Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Main Result

Assumptions for shadow calculations

Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

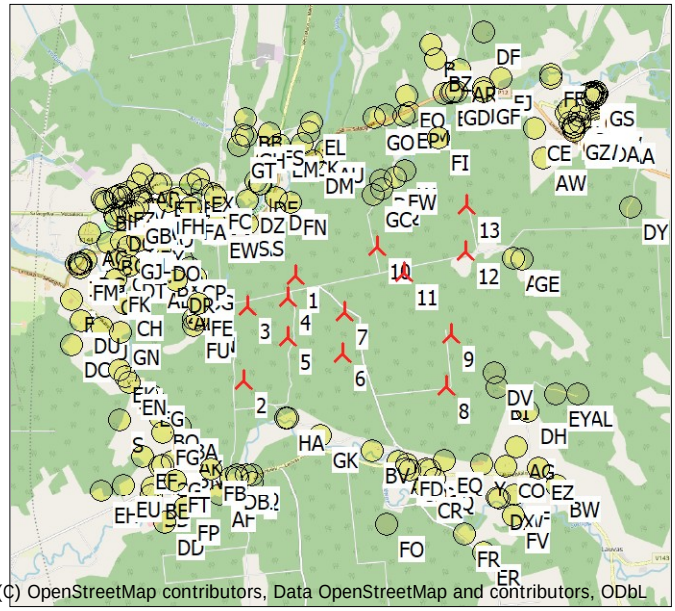
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

Monthly aggregation of real case reduction
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Elevation Grid Data Object: ground.wpg (7)
Receptor grid resolution: 1.0 m

All coordinates are in
Latvian TM LKS92-LKS92 (LV)



WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
1	527 357	400 505	26.4	VES "Senlejas"	No	GENVIND	VES-8 000	8 000	140.0	130.0	1 903	10.8
2	526 509	398 765	23.8	Z1	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
3	526 578	399 986	24.0	Z2	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
4	527 252	400 134	26.3	Z3	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
5	527 258	399 468	26.0	Z4	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
6	528 156	399 224	26.7	Z5	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
7	528 185	399 896	28.5	Z6	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
8	529 862	398 686	31.5	Z9	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
9	529 954	399 532	30.1	Z10	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
10	528 702	400 976	29.2	Z12	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
11	529 153	400 543	28.2	Z13	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
12	530 179	400 913	30.5	Z16	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
13	530 196	401 685	32.3	Z17	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8

Shadow receptor-Input

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
A	Aiviekstes	525 480	400 742	16.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
B	Aizpurvi	529 573	404 325	35.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
C	Aizsargi	524 737	402 006	13.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
D	Akacijas iela 1	525 042	402 001	14.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
E	Akmengravas	524 996	398 481	13.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
F	Akmenkalni	523 638	400 074	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
G	Annsmui ž a A	523 785	400 685	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
H	Annsmui ž a B	523 756	400 672	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
I	Annsmui ž a C	523 730	400 657	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
J	Annsmui ž a D	523 797	400 666	10.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
K	Arkadijas	524 955	401 513	11.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
L	Atputas	524 977	401 018	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
M	Ausekli	526 691	402 050	22.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
N	Auzinas	525 750	397 491	15.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
O	Avoti	525 810	401 896	20.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
P	Avotkalni 1	526 669	397 069	23.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
Q	Avotkalni A	526 678	397 192	23.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
R	Avotkalni B	526 568	397 181	19.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
S	Adambergi	524 450	398 083	11.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
T	Bezdeligas Ligzda	525 994	401 833	20.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
U	Birznieki	524 160	399 627	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
V	Birztalinas	528 840	403 158	33.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
W	Birzuli	529 172	402 254	30.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
X	Bruveli	527 581	402 872	11.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Y	Caunites	530 478	397 407	36.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Z	Cerini 2	525 358	400 220	15.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AA	Cinas	532 671	402 917	38.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AB	Dolari	524 811	402 150	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AC	Donavas	524 494	401 754	12.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AD	Drupas	525 471	400 124	16.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AE	Dundagas	525 026	400 485	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AF	Duneni	526 129	396 865	17.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AG	Eglites	531 045	397 696	39.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AH	Einbluti	529 546	397 309	30.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AI	Ergli	525 400	401 743	13.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AJ	Ilgupils	529 075	397 432	21.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AK	Indrani	525 570	397 701	15.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AL	Induli	532 062	398 573	39.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AM	Jaunarkadijas A	524 977	401 583	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AN	Jaunarkadijas B	524 972	401 571	8.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AO	Jaunarkadijas C	525 009	401 478	14.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AP	Jaunauzinas	525 341	397 395	14.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AQ	Jaundalderi	523 944	401 160	11.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AR	Jaunjemekli	530 054	403 922	34.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AS	Jaunjeceni	526 563	401 353	21.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AT	Jaunkastanas	525 669	399 774	17.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AU	Jaunolki	527 853	402 560	26.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AV	Jaunsalinas	532 291	403 115	36.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AW	Jaunspringi	531 449	402 465	35.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AX	Jauntaujani 1	531 578	403 786	32.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AY	Jaunterces	526 770	402 005	22.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AZ	Jaunto š eni	530 976	400 817	34.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BA	Jaunupites	525 453	397 980	15.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BB	Jaunzagme ž i	526 498	403 081	25.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BC	Jemekli	529 815	403 515	31.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BD	Jennas A	524 987	396 844	12.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BE	Jennas B	525 020	396 981	12.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BF	Jesperi	531 024	396 887	38.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BG	Kalnmalas	525 716	400 446	17.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BH	Kalnrujas	531 846	403 224	35.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BI	Kardes	530 727	398 674	36.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BJ	Karogi	524 255	401 015	11.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BK	Kraukli A	526 404	397 178	18.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BL	Kraukli B	526 431	397 149	17.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BM	Krivas	529 241	403 207	34.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BN	Krusteici	525 734	399 745	17.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BO	Krumini	525 120	398 136	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BP	Kudlei š i	524 561	398 799	11.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BQ	Kuikules magazina	529 606	397 295	31.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BR	Kuikuli	529 203	397 297	29.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BS	Keninu iela 1	524 210	401 676	11.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BT	Keninu iela 3	524 196	401 699	11.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BU	Keninu iela 5	524 152	401 735	12.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BV	Kilzumi	528 642	397 619	23.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BW	Kir š i	531 724	397 052	38.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BX	Lapskalni	525 182	400 666	14.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BY	Lazdas	524 899	401 174	13.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BZ	Legzdini	529 676	404 078	34.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CA	Leinieki	524 841	400 889	13.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CB	Lielgravas	524 249	400 358	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
CC	Lielie Zarini	524 432	400 739	12.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CD	Lielkuikuli	529 293	397 279	29.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CE	Lielspringi	531 305	402 957	33.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CF	Liepavoti	525 144	397 327	13.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CG	Liepavoti 1	525 174	397 346	13.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CH	Lici š i	524 528	400 005	12.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CI	Licupites	524 482	401 048	11.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CJ	Lojas	525 710	401 675	19.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CK	Lekungas	527 458	402 678	23.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CL	Madaru iela 5	524 761	401 741	5.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CM	Madaru iela 7	524 775	401 775	5.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CN	Madaru iela 10	524 804	401 695	6.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CO	Mazjesperi	530 883	397 354	38.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CP	Mazkaleji	525 603	400 609	17.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CQ	Mazkuikuli A	529 699	397 154	35.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CR	Mazkuikuli B	529 534	397 023	32.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CS	Mazskujinas	524 774	401 003	13.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CT	Mazspridi š i A	529 962	403 551	33.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CU	Mazspridi š i B	530 011	403 563	34.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CV	Maja Nr. 4	532 326	403 112	36.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CW	Maja Nr. 5	532 361	403 105	36.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CX	Maja Nr. 7	532 333	403 033	36.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CY	Maja Nr. 9	532 361	403 014	36.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CZ	Maja Nr. 10	532 388	402 979	37.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DA	Maja Nr. 11	532 415	402 937	37.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DB	Medni	526 317	397 137	19.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DC	Me ž ciems	523 651	399 341	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DD	Me ž ini	525 230	396 390	13.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DE	Me ž meiniki	526 778	402 010	22.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DF	Me ž strauti	530 450	404 531	35.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DG	Mui ž nieki	523 895	400 731	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DH	Namdari	531 253	398 274	38.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DI	Niedru iela 7	524 542	401 575	12.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DJ	Niedru iela 9	524 620	401 526	5.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DK	Niedru iela 10	524 483	401 530	12.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DL	Norinas	528 768	402 073	30.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DM	Olki	527 636	402 396	25.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DN	O š u iela 1	532 318	403 572	36.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DO	Paegli	525 121	400 942	14.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DP	Parka iela 6	524 352	401 469	12.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DQ	Parka iela 8	524 372	401 409	12.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DR	Pavasari	525 383	400 397	16.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DS	Pavuli	527 026	401 775	22.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DT	Pecinas	524 596	400 635	12.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DU	Pietes	523 807	399 717	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DV	Plesini	530 664	398 903	36.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DW	Podnieki A	530 770	396 831	35.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DX	Podnieki B	530 740	396 843	38.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DY	Purmali	532 922	401 666	39.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DZ	Pucites	526 553	401 739	21.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EA	Pupolu iela 1	532 211	403 529	35.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EB	Pupolu iela 2	532 230	403 499	36.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EC	Pupolu iela 3	532 245	403 558	35.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ED	Pupolu iela 4	532 267	403 527	36.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EE	Pupolu iela 6	532 289	403 549	36.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EF	Randavas	524 840	397 489	12.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EG	Raudupes	524 905	398 517	13.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EH	Riekstini	524 149	396 904	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EI	Rudzi š i 1	530 473	403 630	31.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EJ	Salacas	525 627	401 998	19.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EK	Sarupes	524 449	398 906	11.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EL	Sauleskalni	527 606	403 025	23.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EM	Sauleskalni 2	527 090	402 654	27.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EN	Saulkrasti	524 605	398 709	11.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
EO	Sildarzini	529 176	403 490	35.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EP	Silkaleji	529 147	403 146	34.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EQ	Silkalni	529 852	397 464	35.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ER	Silmaci	530 529	395 920	40.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ES	Silveveri	526 342	401 352	22.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ET	Skalbes	525 118	401 991	14.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EU	Skujinas	524 532	397 014	10.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EV	Slokas	524 595	401 873	12.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EW	Smilgas	526 056	401 315	20.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EX	Smil š kalni	525 740	402 076	19.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EY	Soles	531 696	398 570	39.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EZ	Sprundas	531 405	397 336	39.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FA	Stienu ž i	525 610	401 610	19.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FB	Straujupites	525 980	397 282	16.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FC	Sunuki	526 033	401 800	20.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FD	Svetupe	529 217	397 397	27.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FE	Tamisari	525 755	400 019	17.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FF	Taujani	531 563	403 861	29.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FG	Tomsoni	525 170	397 900	14.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FH	Toskana	525 250	401 699	14.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FI	Tuiskas	529 716	402 772	30.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FJ	Ugraji	530 760	403 795	32.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FK	Upenieki	524 388	400 415	11.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FL	Upeslici	524 740	401 060	12.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FM	Upmali	523 795	400 592	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FN	Urgas	527 268	401 692	22.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FO	Uzinas	528 903	396 394	29.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FP	Vairogi	525 548	396 624	14.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FQ	Vaverites	528 791	401 939	30.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FR	Vavuli	530 191	396 242	39.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FS	Vecapini	526 929	402 837	25.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FT	Vecjennas	525 380	397 106	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FU	Veckastani	525 682	399 657	17.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FV	Veckulmaki	531 014	396 550	40.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FW	Vecmelderi	529 002	402 124	29.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FX	Vecsalaca 4	524 399	401 778	12.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FY	Vecsalaca 5	524 359	401 764	12.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FZ	Vecsalaca 6	524 461	401 810	12.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GA	Vecsalacas 1	524 744	401 609	6.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GB	Vecsalacas 2	524 653	401 548	5.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GC	Vecsilupites	528 641	401 842	30.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GD	Vecspridi š i	529 913	403 537	32.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GE	Vecto š eni	531 132	400 781	35.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GF	Vecupites	530 474	403 557	29.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GG	Veczagme ž i A	526 470	402 818	25.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GH	Veczagme ž i B	526 532	402 802	24.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GI	Vedamurgas	527 257	398 125	21.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GJ	Veides	524 585	400 948	12.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GK	Vejini	527 799	397 858	21.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GL	Viskalni	531 884	403 284	35.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GM	Viskalni 1	532 066	403 157	36.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GN	Viksnas	524 470	399 533	11.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GO	Zaki	528 653	403 123	32.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GP	Zalu iela 1	532 266	403 458	36.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GQ	Zalu iela 3	532 300	403 487	36.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GR	Zalu iela 5	532 323	403 508	36.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GS	Zalu iela 7	532 348	403 531	36.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GT	Zemzari	526 407	402 632	23.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GU	Zitaru iela 3	532 056	403 053	36.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GV	Zitaru iela 4	531 955	403 019	36.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GW	Zitaru iela 5	531 972	402 986	36.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GX	Zitaru iela 6	531 899	403 053	34.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GY	Zitaru iela 7	531 961	402 916	35.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GZ	Zitaru iela 8	531 936	402 988	36.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HA	Zvaigznes	527 206	398 136	21.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Main Result

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case: Shadow hours per year [h/year]	Shadow, worst case: Shadow days per year [days/year]	Shadow, worst case: Max shadow hours per day [h/day]	Shadow, expected values: Shadow hours per year [h/year]
A	Aiviekstes	35:32	85	0:41	6:18
B	Aizpurvi	0:00	0	0:00	0:00
C	Aizsargi	0:00	0	0:00	0:00
D	Akacijas iela 1	0:00	0	0:00	0:00
E	Akmengravas	17:29	44	0:31	5:19
F	Akmenkalni	0:00	0	0:00	0:00
G	Annsmui ž a A	0:00	0	0:00	0:00
H	Annsmui ž a B	0:00	0	0:00	0:00
I	Annsmui ž a C	0:00	0	0:00	0:00
J	Annsmui ž a D	0:00	0	0:00	0:00
K	Arkadijas	0:00	0	0:00	0:00
L	Atputas	10:53	35	0:25	1:39
M	Ausekli	14:54	34	0:36	1:05
N	Auzinas	0:00	0	0:00	0:00
O	Avoti	14:17	44	0:23	1:02
P	Avotkalni 1	0:00	0	0:00	0:00
Q	Avotkalni A	0:00	0	0:00	0:00
R	Avotkalni B	0:00	0	0:00	0:00
S	Adambergi	0:00	0	0:00	0:00
T	Bezdeligas Ligzda	29:31	80	0:30	2:18
U	Birznieki	0:00	0	0:00	0:00
V	Birztalinas	13:43	44	0:24	1:15
W	Birzuli	99:56	143	1:01	10:35
X	Bruveli	0:00	0	0:00	0:00
Y	Caunites	0:00	0	0:00	0:00
Z	Cerini 2	58:53	131	1:00	10:47
AA	Cinas	0:00	0	0:00	0:00
AB	Dolari	0:00	0	0:00	0:00
AC	Donavas	0:00	0	0:00	0:00
AD	Drupas	70:15	142	1:06	13:41
AE	Dundagas	13:10	35	0:28	2:38
AF	Duneni	0:00	0	0:00	0:00
AG	Eglites	6:05	26	0:18	1:55
AH	Einbluti	0:00	0	0:00	0:00
AI	Ergli	22:00	74	0:23	1:42
AJ	Ilgupils	0:00	0	0:00	0:00
AK	Indrani	0:00	0	0:00	0:00
AL	Induli	0:00	0	0:00	0:00
AM	Jaunarkadijas A	0:00	0	0:00	0:00
AN	Jaunarkadijas B	0:00	0	0:00	0:00
AO	Jaunarkadijas C	0:00	0	0:00	0:00
AP	Jaunauzinas	0:00	0	0:00	0:00
AQ	Jaundalderi	0:00	0	0:00	0:00
AR	Jaunjemekli	0:00	0	0:00	0:00
AS	Jaunjeceni	105:06	106	1:21	8:38
AT	Jaunkastanas	119:40	214	1:08	31:49
AU	Jaunolki	28:26	70	0:28	2:07
AV	Jaunsalinas	0:00	0	0:00	0:00
AW	Jaunspringi	32:11	91	0:32	4:14
AX	Jauntaujani 1	0:00	0	0:00	0:00
AY	Jaunterces	14:30	34	0:36	1:04
AZ	Jaunto š eni	106:30	191	0:58	28:26
BA	Jaunupites	15:34	41	0:29	5:06
BB	Jaunzagme ž i	0:00	0	0:00	0:00
BC	Jemekli	8:33	32	0:21	0:39
BD	Jennas A	0:00	0	0:00	0:00
BE	Jennas B	0:00	0	0:00	0:00
BF	Jesperi	0:00	0	0:00	0:00
BG	Kalnmalas	89:22	177	1:06	14:58
BH	Kalnrujas	0:00	0	0:00	0:00
BI	Kardes	52:40	78	0:53	15:49
BJ	Karogi	0:00	0	0:00	0:00

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case			Shadow, expected values
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
BK	Kraukli A	0:00	0	0:00	0:00
BL	Kraukli B	0:00	0	0:00	0:00
BM	Krivas	28:50	78	0:27	2:13
BN	Krusteici	148:45	231	1:09	40:27
BO	Krumini	30:05	76	0:32	9:46
BP	Kudlei š i	9:27	30	0:24	2:23
BQ	Kuikules magazina	0:00	0	0:00	0:00
BR	Kuikuli	0:00	0	0:00	0:00
BS	Keninu iela 1	0:00	0	0:00	0:00
BT	Keninu iela 3	0:00	0	0:00	0:00
BU	Keninu iela 5	0:00	0	0:00	0:00
BV	Kilzumi	0:40	9	0:06	0:13
BW	Kir š i	0:00	0	0:00	0:00
BX	Lapskalni	14:59	39	0:30	2:36
BY	Lazdas	9:54	34	0:23	1:25
BZ	Legzdini	0:00	0	0:00	0:00
CA	Leinieki	9:50	32	0:24	1:33
CB	Lielgravas	0:00	0	0:00	0:00
CC	Lielie Zarini	0:00	0	0:00	0:00
CD	Lielkuikuli	0:00	0	0:00	0:00
CE	Lielspringi	18:31	51	0:29	1:52
CF	Liepavoti	0:00	0	0:00	0:00
CG	Liepavoti 1	0:00	0	0:00	0:00
CH	Lici š i	8:38	30	0:23	2:11
CI	Licupites	0:00	0	0:00	0:00
CJ	Lojas	24:56	64	0:27	1:50
CK	Lekungas	17:20	60	0:24	1:23
CL	Madaru iela 5	0:00	0	0:00	0:00
CM	Madaru iela 7	0:00	0	0:00	0:00
CN	Madaru iela 10	0:00	0	0:00	0:00
CO	Mazjesperi	0:00	0	0:00	0:00
CP	Mazkaleji	69:22	161	0:51	10:30
CQ	Mazkuikuli A	0:00	0	0:00	0:00
CR	Mazkuikuli B	0:00	0	0:00	0:00
CS	Mazskujinas	9:03	31	0:23	1:22
CT	Mazspridi š i A	4:06	22	0:14	0:19
CU	Mazspridi š i B	2:41	18	0:12	0:12
CV	Maja Nr. 4	0:00	0	0:00	0:00
CW	Maja Nr. 5	0:00	0	0:00	0:00
CX	Maja Nr. 7	0:00	0	0:00	0:00
CY	Maja Nr. 9	0:00	0	0:00	0:00
CZ	Maja Nr. 10	0:00	0	0:00	0:00
DA	Maja Nr. 11	0:00	0	0:00	0:00
DB	Medni	0:00	0	0:00	0:00
DC	Me ž ciems	0:00	0	0:00	0:00
DD	Me ž ini	0:00	0	0:00	0:00
DE	Me ž meiniki	13:21	33	0:34	0:59
DF	Me ž strauti	0:00	0	0:00	0:00
DG	Mui ž nieki	0:00	0	0:00	0:00
DH	Namdari	22:55	55	0:33	6:54
DI	Niedru iela 7	0:00	0	0:00	0:00
DJ	Niedru iela 9	0:00	0	0:00	0:00
DK	Niedru iela 10	0:00	0	0:00	0:00
DL	Norinas	108:17	158	1:14	11:30
DM	Olki	20:35	60	0:28	1:44
DN	O š u iela 1	0:00	0	0:00	0:00
DO	Paegli	13:01	38	0:27	1:59
DP	Parka iela 6	0:00	0	0:00	0:00
DQ	Parka iela 8	0:00	0	0:00	0:00
DR	Pavasari	62:03	160	0:55	9:47
DS	Pavuli	48:31	77	1:12	4:40
DT	Pecinas	8:09	28	0:22	1:32
DU	Pietes	0:00	0	0:00	0:00

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case			Shadow, expected values
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
DV	Plesini	48:44	69	0:54	12:13
DW	Podnieki A	0:00	0	0:00	0:00
DX	Podnieki B	0:00	0	0:00	0:00
DY	Purmali	0:00	0	0:00	0:00
DZ	Pucites	57:36	68	1:08	4:20
EA	Pupolu iela 1	0:00	0	0:00	0:00
EB	Pupolu iela 2	0:00	0	0:00	0:00
EC	Pupolu iela 3	0:00	0	0:00	0:00
ED	Pupolu iela 4	0:00	0	0:00	0:00
EE	Pupolu iela 6	0:00	0	0:00	0:00
EF	Randavas	17:27	53	0:24	5:48
EG	Raudupes	15:16	42	0:29	4:33
EH	Riekstini	0:00	0	0:00	0:00
EI	Rudzi š i 1	2:29	17	0:11	0:11
EJ	Salacas	0:00	0	0:00	0:00
EK	Sarupes	8:20	29	0:22	2:00
EL	Sauleskalni	0:00	0	0:00	0:00
EM	Sauleskalni 2	0:00	0	0:00	0:00
EN	Saulkrasti	9:56	32	0:24	2:37
EO	Sildarzini	21:55	62	0:24	1:37
EP	Silkaleji	22:46	68	0:27	1:50
EQ	Silkalni	0:00	0	0:00	0:00
ER	Silmaci	0:00	0	0:00	0:00
ES	Silveveri	89:10	116	1:04	7:45
ET	Skalbes	0:00	0	0:00	0:00
EU	Skujinas	0:00	0	0:00	0:00
EV	Slokas	0:00	0	0:00	0:00
EW	Smilgas	63:48	129	0:37	6:02
EX	Smil š kalni	0:00	0	0:00	0:00
EY	Soles	29:13	95	0:25	8:55
EZ	Sprundas	3:44	27	0:12	1:10
FA	Stienu ž i	26:59	72	0:26	2:03
FB	Straujupites	0:00	0	0:00	0:00
FC	Sunuki	37:42	90	0:37	3:01
FD	Svetupe	0:00	0	0:00	0:00
FE	Tamisari	127:38	207	1:28	28:10
FF	Taujani	0:00	0	0:00	0:00
FG	Tomsoni	30:59	68	0:32	10:13
FH	Toskana	0:00	0	0:00	0:00
FI	Tuiskas	85:17	95	1:12	6:41
FJ	Ugraji	0:00	0	0:00	0:00
FK	Upenieki	0:00	0	0:00	0:00
FL	Upeslici	8:41	30	0:22	1:19
FM	Upmali	0:00	0	0:00	0:00
FN	Urgas	85:12	98	1:39	7:50
FO	Uzinas	0:00	0	0:00	0:00
FP	Vairogi	0:00	0	0:00	0:00
FQ	Vaverites	138:51	170	1:34	14:54
FR	Vavuli	0:00	0	0:00	0:00
FS	Vecapini	0:00	0	0:00	0:00
FT	Vecjennas	0:00	0	0:00	0:00
FU	Veckastani	135:59	222	1:03	37:01
FV	Veckulmaki	0:00	0	0:00	0:00
FW	Vecmelderi	107:17	153	1:08	11:31
FX	Vecsalaca 4	0:00	0	0:00	0:00
FY	Vecsalaca 5	0:00	0	0:00	0:00
FZ	Vecsalaca 6	0:00	0	0:00	0:00
GA	Vecsalacas 1	0:00	0	0:00	0:00
GB	Vecsalacas 2	0:00	0	0:00	0:00
GC	Vecsilupites	162:40	178	1:35	16:57
GD	Vecspridi š i	5:31	26	0:17	0:25
GE	Vecto š eni	73:39	153	0:49	18:48
GF	Vecupites	5:51	26	0:17	0:27

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case			Shadow, expected values
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
GG	Veczagme ž i A	0:00	0	0:00	0:00
GH	Veczagme ž i B	0:00	0	0:00	0:00
GI	Vedamurgas	0:00	0	0:00	0:00
GJ	Veides	0:00	0	0:00	0:00
GK	Vejini	23:27	56	0:31	7:28
GL	Viskalni	0:00	0	0:00	0:00
GM	Viskalni 1	0:00	0	0:00	0:00
GN	Viksnas	0:00	0	0:00	0:00
GO	Zaki	10:50	38	0:23	1:06
GP	Zalu iela 1	0:00	0	0:00	0:00
GQ	Zalu iela 3	0:00	0	0:00	0:00
GR	Zalu iela 5	0:00	0	0:00	0:00
GS	Zalu iela 7	0:00	0	0:00	0:00
GT	Zemzari	0:00	0	0:00	0:00
GU	Zitaru iela 3	0:00	0	0:00	0:00
GV	Zitaru iela 4	0:00	0	0:00	0:00
GW	Zitaru iela 5	0:00	0	0:00	0:00
GX	Zitaru iela 6	0:00	0	0:00	0:00
GY	Zitaru iela 7	0:00	0	0:00	0:00
GZ	Zitaru iela 8	0:00	0	0:00	0:00
HA	Zvaigznes	0:00	0	0:00	0:00

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
1	VES "Senlejas"	132:35	18:59
2	Z1	260:52	54:49
3	Z2	502:16	96:26
4	Z3	253:19	37:52
5	Z4	96:02	14:33
6	Z5	0:00	0:00
7	Z6	31:52	2:21
8	Z9	139:56	39:30
9	Z10	53:09	9:28
10	Z12	308:30	27:25
11	Z13	107:32	10:16
12	Z16	175:37	35:40
13	Z17	266:42	33:20

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: A - Aiviekstes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March		April	May	June	July	August	September		October		November	December
1	09:07	08:27		07:20		07:50 (4)	06:54	05:34	04:33	04:26	05:15	06:21		07:25		08:20 (4)	07:34	08:39
	15:46	16:46		17:52	36	09:07 (3)	20:01	21:08	22:09	22:26	21:42	20:24		19:00	21	08:41 (4)	16:38	15:43
2	09:06	08:25		07:17		07:46 (4)	06:51	05:31	04:32	04:27	05:17	06:23		07:27		08:18 (4)	07:36	08:41
	15:47	16:49		17:54	41	09:06 (3)	20:04	21:10	22:10	22:26	21:39	20:21		18:57	23	08:41 (4)	16:36	15:42
3	09:06	08:23		07:14		07:44 (4)	06:48	05:29	04:31	04:28	05:19	06:25		07:29		08:18 (4)	07:38	08:43
	15:48	16:51		17:57	41	09:04 (3)	20:06	21:12	22:12	22:25	21:37	20:18		18:54	24	08:42 (4)	16:34	15:41
4	09:06	08:21		07:12		07:43 (4)	06:46	05:27	04:30	04:29	05:22	06:27		07:31		08:17 (4)	07:41	08:45
	15:50	16:53		17:59	40	09:02 (3)	20:08	21:14	22:13	22:24	21:35	20:15		18:51	25	08:42 (4)	16:31	15:41
5	09:05	08:19		07:09		07:42 (4)	06:43	05:24	04:28	04:30	05:24	06:30		07:33		08:17 (4)	07:43	08:46
	15:51	16:56		18:01	35	08:59 (3)	20:10	21:16	22:15	22:24	21:33	20:13		18:49	24	08:41 (4)	16:29	15:40
6	09:04	08:17		07:06		07:41 (4)	06:40	05:22	04:27	04:31	05:26	06:32		07:35		08:16 (4)	07:45	08:48
	15:53	16:58		18:04	23	08:04 (4)	20:12	21:19	22:16	22:23	21:30	20:10		18:46	25	08:41 (4)	16:27	15:39
7	09:04	08:14		07:04		07:40 (4)	06:37	05:20	04:27	04:32	05:28	06:34		07:38		08:17 (4)	07:48	08:49
	15:54	17:00		18:06	24	08:04 (4)	20:15	21:21	22:17	22:22	21:28	20:07		18:43	24	08:41 (4)	16:24	15:38
8	09:03	08:12		07:01		07:40 (4)	06:35	05:17	04:26	04:34	05:30	06:36		07:40		08:17 (4)	07:50	08:51
	15:56	17:03		18:08	24	08:04 (4)	20:17	21:23	22:18	22:21	21:26	20:04		18:40	32	09:32 (3)	16:22	15:38
9	09:02	08:10		06:58		07:40 (4)	06:32	05:15	04:25	04:35	05:32	06:38		07:42		08:17 (4)	07:52	08:52
	15:58	17:05		18:10	25	08:05 (4)	20:19	21:25	22:19	22:20	21:23	20:01		18:38	38	09:35 (3)	16:20	15:37
10	09:01	08:08		06:55		07:40 (4)	06:29	05:13	04:24	04:36	05:34	06:40		07:44		08:18 (4)	07:55	08:54
	15:59	17:08		18:13	24	08:04 (4)	20:21	21:27	22:21	22:19	21:21	19:59		18:35	40	09:37 (3)	16:18	15:36
11	09:00	08:05		06:53		07:40 (4)	06:26	05:11	04:24	04:38	05:36	06:42		07:46		08:20 (4)	07:57	08:55
	16:01	17:10	9	08:59 (3)	23	08:03 (4)	20:23	21:29	22:22	22:18	21:18	19:56		18:32	40	09:39 (3)	16:16	15:36
12	08:59	08:03		08:47 (3)		06:50	07:40 (4)	06:24	05:08	04:23	04:39	05:38	06:44		07:49		08:21 (4)	07:59	08:56
	16:03	17:12	16	09:03 (3)	22	08:02 (4)	20:26	21:31	22:22	22:17	21:16	19:53		18:29	39	09:40 (3)	16:14	15:36
13	08:58	08:00		08:44 (3)		06:47	07:41 (4)	06:21	05:06	04:23	04:41	05:41	06:47		07:51		09:11 (3)	08:01	08:58
	16:05	17:15	21	09:05 (3)	20	08:18:19	08:01 (4)	20:28	21:34	22:23	22:15	21:14	19:50		18:27	30	09:41 (3)	16:12	15:35
14	08:57	07:58		08:42 (3)		06:44	07:43 (4)	06:18	05:04	04:22	04:42	05:43	06:49		07:53		09:11 (3)	08:04	08:59
	16:07	17:17	24	09:06 (3)	17	08:22	08:00 (4)	20:30	21:36	22:24	22:14	21:11	19:47		18:24	31	09:42 (3)	16:10	15:35
15	08:56	07:56		08:41 (3)		06:41	07:08 (1)	06:15	05:02	04:22	04:44	05:45	06:51		07:55		09:10 (3)	08:06	09:00
	16:09	17:19	27	09:08 (3)	17	08:24	07:57 (4)	20:32	21:38	22:25	22:13	21:09	19:45		18:21	32	09:42 (3)	16:08	15:35
16	08:55	07:53		08:40 (3)		06:39	07:05 (1)	06:13	05:00	04:21	04:45	05:47	06:53		07:57		09:09 (3)	08:08	09:01
	16:11	17:22	29	09:09 (3)	14	08:26	07:53 (4)	20:34	21:40	22:25	22:11	21:06	19:42		18:19	33	09:42 (3)	16:06	15:35
17	08:53	07:51		08:40 (3)		06:36	07:02 (1)	06:10	04:58	04:21	04:47	05:49	06:55		08:00		09:09 (3)	08:10	09:02
	16:13	17:24	30	09:10 (3)	11	08:28	07:13 (1)	20:37	21:42	22:26	22:10	21:04	19:39		18:16	34	09:43 (3)	16:04	15:35
18	08:52	07:48		08:39 (3)		06:33	06:59 (1)	06:07	04:56	04:21	04:49	05:51	06:57		08:02		09:08 (3)	08:13	09:03
	16:15	17:26	32	09:11 (3)	14	08:30	07:13 (1)	20:39	21:44	22:27	22:08	21:01	19:36		18:13	35	09:43 (3)	16:02	15:35
19	08:50	07:46		08:38 (3)		06:30	06:56 (1)	06:05	04:54	04:21	04:50	05:53	06:59		08:04		09:07 (3)	08:15	09:03
	16:17	17:29	33	09:11 (3)	17	08:33	07:13 (1)	20:41	21:46	22:27	22:06	20:58	19:33	7	07:54 (1)	35	09:42 (3)	16:01	15:36
20	08:49	07:43		08:38 (3)		06:28	06:56 (1)	06:02	04:52	04:21	04:52	05:55	07:01		07:44 (1)		09:08 (3)	08:17	09:04
	16:19	17:31	34	09:12 (3)	17	08:35	07:13 (1)	20:43	21:48	22:27	22:05	20:56	19:31	12	07:56 (1)	34	09:42 (3)	15:59	15:36
21	08:47	07:41		08:37 (3)		06:25	06:56 (1)	05:59	04:50	04:21	04:54	05:58	07:03		07:43 (1)		08:09	09:07 (3)	08:19	09:05
	16:21	17:34	35	09:12 (3)	16	08:37	07:12 (1)	20:46	21:50	22:28	22:03	20:53	19:28	14	07:57 (1)	35	09:42 (3)	15:57	15:36
22	08:46	07:38		08:37 (3)		06:22	06:57 (1)	05:57	04:48	04:21	04:56	06:00	07:05		07:41 (1)		08:11	09:08 (3)	08:21	09:05
	16:23	17:36	34	09:11 (3)	14	08:39	07:11 (1)	20:48	21:52	22:28	22:01	20:51	19:25	16	07:57 (1)	34	09:42 (3)	15:56	15:37
23	08:44	07:36		08:37 (3)		06:19	06:57 (1)	05:54	04:47	04:22	04:58	06:02	07:08		07:40 (1)		08:13	09:08 (3)	08:23	09:06
	16:26	17:38	35	09:12 (3)	13	08:42	07:10 (1)	20:50	21:54	22:28	22:00	20:48	19:22	17	07:57 (1)	33	09:41 (3)	15:54	15:37
24	08:42	07:33		08:37 (3)		06:16	06:59 (1)	05:52	04:45	04:22	04:59	06:04	07:10		07:40 (1)		08:15	09:09 (3)	08:25	09:06
	16:28	17:41	34	09:11 (3)	8	08:44	07:07 (1)	20:52	21:55	22:28	21:58	20:45	19:19	17	07:57 (1)	32	17:58	09:41 (3)	15:53	15:38
25	08:41	07:30		08:37 (3)		06:14		05:49	04:43	04:22	05:01	06:06	07:12		07:41 (1)		07:18	08:09 (3)	08:28	09:07
	16:30	17:43	34	09:11 (3)		18:46		20:54	21:57	22:28	21:56	20:43	19:16	15	07:56 (1)	30	16:55	08:39 (3)	15:51	15:38
26	08:39	07:28		08:37 (3)		06:11		05:46	04:42	04:23	05:03	06:08	07:14		07:43 (1)		07:20	08:11 (3)	08:30	09:07
	16:32	17:45	33	09:10 (3)		18:48		20:57	21:59	22:28	21:54	20:40	19:14	12	07:55 (1)	28	16:53	08:39 (3)	15:50	15:39
27	08:37	07:25		08:38 (3)		06:08		05:44	04:40	04:23	05:05	06:10	07:16		07:46 (1)		07:22	08:11 (3)	08:32	09:07
	16:35	17:47	32	09:10 (3)		18:50		20:59	22:01	22:28	21:52	20:37	19:11	9	07:55 (1)	26	16:50	08:37 (3)	15:48	15:40
28	08:35	07:22		08:38 (3)		06:05		05:41	04:39	04:24	05:07	06:13	07:18		07:48 (1)		07:25	08:13 (3)	08:34	09:07
	16:37	17:50	31	09:09 (3)		18:53		21:01	22:02	22:28	21:50	20:35	19:08	16	08:37 (4)	23	16:48	08:36 (3)	15:47	15:41
29	08:33					07:02		05:39	04:37	04:25	05:09	06:15	07:20		08:23 (4)		07:27	08:14 (3)	08:35	09:07
	16:39					19:55		21:03	22:04	22:27	21:48	20:32	19:05	16	08:39 (4)	20	16:45	08:34 (3)	15:46	15:42
30	08:31					07:00		05:36	04:36	04:25	05:11	06:17	07:23		08:21 (4)		07:29	08:17 (3)	08:37	09:07
	16:42					19:57		21:05	22:06	22:27	21:46	20:29	19:02	19	08:40 (4)	15	16:43	08:32 (3)	15:45	15:43
31	08:29					06:57			04:34		05:13	06:19					07:32	08:20 (3)		09:07
	16:44					19:59			22:07		21:44	20:26					16:41	08:28 (3)		15:44
Potential sun hours	227	262		365		429	515	539	538	474	386		321		241	207
Total, worst case			523		536							170		903		
Sun reduction			0.22		0.37							0.43		0.31		
Oper. time red.			0.93		0.93							0.93		0.93		
Wind dir. red.			0.63		0.61							0.62		0.62		
Total reduction			0.13		0.21							0.25		0.18		
Total, real			67		111							42		158		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: B - Aizpurvi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:48	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08	15:35
16	08:55	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:04	04:54	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: C - Aizsargi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:29	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: D - Akacijas iela 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:40	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:41		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: E - Akmengravas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April		May		June	July	August		September	October	November	December
1	09:07	08:27	07:20	06:54		05:34	06:52 (2)	04:33	04:26	05:15		06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01		21:08	17 07:09 (2)	22:09	22:26	21:41		20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51		05:32	06:54 (2)	04:32	04:27	05:18		06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04		21:10	13 07:07 (2)	22:10	22:26	21:39		20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48		05:29	06:59 (2)	04:31	04:28	05:20		06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06		21:12	3 07:02 (2)	22:12	22:25	21:37		20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46		05:27		04:30	04:29	05:22		06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08		21:14		22:13	22:24	21:35		20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43		05:24		04:29	04:30	05:24		06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10		21:16		22:15	22:24	21:33		20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40		05:22		04:28	04:31	05:26		06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12		21:19		22:16	22:23	21:30		20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37		05:20		04:27	04:33	05:28		06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15		21:21		22:17	22:22	21:28		20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35		05:17		04:26	04:34	05:30		06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17		21:23		22:18	22:21	21:26		20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32		05:15		04:25	04:35	05:32		06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19		21:25		22:19	22:20	21:23		20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29		05:13		04:24	04:36	05:34	07:05 (2)	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21		21:27		22:20	22:19	21:21	8 07:13 (2)	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26		05:11		04:24	04:38	05:36	07:02 (2)	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23		21:29		22:21	22:18	21:18	14 07:16 (2)	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	06:58 (2)	05:08		04:23	04:39	05:39	07:00 (2)	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	13 07:11 (2)	21:31		22:22	22:16	21:16	18 07:18 (2)	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	06:56 (2)	05:06		04:23	04:41	05:41	06:58 (2)	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	18 07:14 (2)	21:33		22:23	22:15	21:14	21 07:19 (2)	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	06:54 (2)	05:04		04:22	04:42	05:43	06:57 (2)	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21 07:15 (2)	21:36		22:24	22:14	21:11	23 07:20 (2)	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	06:52 (2)	05:02		04:22	04:44	05:45	06:56 (2)	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	24 07:16 (2)	21:38		22:25	22:12	21:09	25 07:21 (2)	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	06:51 (2)	05:00		04:22	04:45	05:47	06:55 (2)	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	26 07:17 (2)	21:40		22:25	22:11	21:06	27 07:22 (2)	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	06:50 (2)	04:58		04:21	04:47	05:49	06:54 (2)	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	27 07:17 (2)	21:42		22:26	22:10	21:03	28 07:22 (2)	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	06:49 (2)	04:56		04:21	04:49	05:51	06:54 (2)	06:57	08:02	08:12	09:02
	16:15	17:27	18:31	20:39	29 07:18 (2)	21:44		22:26	22:08	21:01	28 07:22 (2)	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	06:48 (2)	04:54		04:21	04:51	05:53	06:53 (2)	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	30 07:18 (2)	21:46		22:27	22:06	20:58	30 07:23 (2)	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	06:47 (2)	04:52		04:21	04:52	05:56	06:53 (2)	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	30 07:17 (2)	21:48		22:27	22:05	20:56	30 07:23 (2)	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	06:47 (2)	04:50		04:21	04:54	05:58	06:52 (2)	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	31 07:18 (2)	21:50		22:27	22:03	20:53	30 07:22 (2)	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	06:47 (2)	04:49		04:22	04:56	06:00	06:52 (2)	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	30 07:17 (2)	21:52		22:28	22:01	20:50	30 07:22 (2)	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	06:47 (2)	04:47		04:22	04:58	06:02	06:52 (2)	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	30 07:17 (2)	21:53		22:28	21:59	20:48	30 07:22 (2)	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	06:47 (2)	04:45		04:22	05:00	06:04	06:52 (2)	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	30 07:17 (2)	21:55		22:28	21:58	20:45	29 07:21 (2)	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	06:47 (2)	04:43		04:22	05:02	06:06	06:52 (2)	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	29 07:16 (2)	21:57		22:28	21:56	20:43	29 07:21 (2)	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	06:48 (2)	04:42		04:23	05:03	06:08	06:52 (2)	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	27 07:15 (2)	21:59		22:28	21:54	20:40	28 07:20 (2)	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	06:48 (2)	04:40		04:23	05:05	06:11	06:53 (2)	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	26 07:14 (2)	22:01		22:28	21:52	20:37	26 07:19 (2)	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	06:49 (2)	04:39		04:24	05:07	06:13	06:54 (2)	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	24 07:13 (2)	22:02		22:27	21:50	20:34	23 07:17 (2)	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	06:50 (2)	04:37		04:25	05:09	06:15	06:55 (2)	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22 07:12 (2)	22:04		22:27	21:48	20:32	21 07:16 (2)	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	06:50 (2)	04:36		04:26	05:11	06:17	06:56 (2)	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	20 07:10 (2)	22:06		22:27	21:46	20:29	18 07:14 (2)	19:02	16:43	15:45	15:43
31	08:29		06:57			04:35			05:13	06:19	06:58 (2)		07:31		09:07
	16:44		19:59			22:07			21:44	20:26	13 07:11 (2)		16:41		15:44
Potential sun hours	227	262	365	429		515		539	538	474		386	321	241	207
Total, worst case					487		33				529				
Sun reduction					0.46		0.58				0.55				
Oper. time red.					0.93		0.93				0.93				
Wind dir. red.					0.65		0.65				0.65				
Total reduction					0.28		0.35				0.33				
Total, real					135		12				174				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: F - Akmenkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	16:00	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:30	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:04	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:01	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: G - Annsmui ž a A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: H - Annsmui ž a B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:01	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: I - Annsmui ž a C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:04	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:01	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: J - Annsmui ž a D

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: K - Arkadijas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: L - Atputas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:07	08:27		07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:12 (3)	08:39
	15:46	16:46		17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	2 08:14 (3)	15:43
2	09:06	08:25		07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36		08:41
	15:47	16:49		17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36		15:42
3	09:06	08:23		07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38		08:43
	15:48	16:51		17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:34		15:41
4	09:06	08:21		07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31		07:41		08:45
	15:50	16:53		17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31		15:41
5	09:05	08:19		07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43		08:46
	15:51	16:56		18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29		15:40
6	09:04	08:17		07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36		07:45		08:48
	15:53	16:58		18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27		15:39
7	09:04	08:14		07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38		07:48		08:49
	15:54	17:00		18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:25		15:38
8	09:03	08:12		07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40		07:50		08:51
	15:56	17:03		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22		15:38
9	09:02	08:10		06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52		08:52
	15:58	17:05		18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38		16:20		15:37
10	09:01	08:08	08:41 (3)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55		08:54
	15:59	17:08	5 08:46 (3)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18		15:36
11	09:00	08:05	08:37 (3)	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46		07:57		08:55
	16:01	17:10	12 08:49 (3)	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32		16:16		15:36
12	08:59	08:03	08:36 (3)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59		08:56
	16:03	17:12	16 08:52 (3)	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29		16:14		15:36
13	08:58	08:01	08:34 (3)	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51		08:01		08:58
	16:05	17:15	19 08:53 (3)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12		15:35
14	08:57	07:58	08:34 (3)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04		08:59
	16:07	17:17	20 08:54 (3)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10		15:35
15	08:56	07:56	08:33 (3)	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	09:12 (3)	08:06		09:00
	16:09	17:19	22 08:55 (3)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	5 09:17 (3)	16:08		15:35
16	08:55	07:53	08:32 (3)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	09:08 (3)	08:08		09:01
	16:11	17:22	23 08:55 (3)	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	13 09:21 (3)	16:06		15:35
17	08:53	07:51	08:32 (3)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	09:06 (3)	08:10		09:02
	16:13	17:24	24 08:56 (3)	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	17 09:23 (3)	16:04		15:35
18	08:52	07:48	08:31 (3)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	09:05 (3)	08:13		09:03
	16:15	17:27	25 08:56 (3)	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	19 09:24 (3)	16:02		15:35
19	08:50	07:46	08:31 (3)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	09:04 (3)	08:15		09:03
	16:17	17:29	24 08:55 (3)	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	21 09:25 (3)	16:01		15:36
20	08:49	07:43	08:32 (3)	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	09:03 (3)	08:17		09:04
	16:19	17:31	24 08:56 (3)	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	22 09:25 (3)	15:59		15:36
21	08:47	07:41	08:32 (3)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	09:02 (3)	08:19		09:05
	16:21	17:34	23 08:55 (3)	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	23 09:25 (3)	15:57		15:36
22	08:46	07:38	08:32 (3)	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	09:02 (3)	08:21		09:05
	16:23	17:36	22 08:54 (3)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	24 09:26 (3)	15:56		15:37
23	08:44	07:36	08:33 (3)	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	09:01 (3)	08:23		09:06
	16:26	17:38	21 08:54 (3)	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	25 09:26 (3)	15:54		15:37
24	08:42	07:33	08:34 (3)	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	09:02 (3)	08:26		09:06
	16:28	17:41	18 08:52 (3)	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	24 09:26 (3)	15:53		15:38
25	08:41	07:30	08:35 (3)	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:01 (3)	08:28		09:07
	16:30	17:43	15 08:50 (3)	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	24 08:25 (3)	15:51		15:38
26	08:39	07:28	08:37 (3)	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:02 (3)	08:30		09:07
	16:32	17:45	11 08:48 (3)	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	23 08:25 (3)	15:50		15:39
27	08:37	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:02 (3)	08:32		09:07
	16:35	17:48		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	22 08:24 (3)	15:48		15:40
28	08:35	07:22		06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:03 (3)	08:34		09:07
	16:37	17:50		18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	21 08:24 (3)	15:47		15:41
29	08:33			07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:04 (3)	08:36		09:07
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	18 08:22 (3)	15:46		15:42
30	08:31			07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:06 (3)	08:37		09:07
	16:42			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15 08:21 (3)	15:45		15:43
31	08:29			06:57		04:34		05:13	06:19		07:32	08:07 (3)			09:07
	16:44			19:59		22:07		21:44	20:26		16:41	11 08:18 (3)			15:44
Potential sun hours	227	262		365	429	515	539	538	474	386	321		241		207
Total, worst case			324									327		2	
Sun reduction			0.22									0.31		0.15	
Oper. time red.			0.93									0.93		0.93	
Wind dir. red.			0.63									0.63		0.63	
Total reduction			0.13									0.18		0.09	
Total, real			42									58		0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: M - Ausekli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:07		10:38 (1)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39		
	15:46	27	11:23 (4)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43		
2	09:06		10:39 (1)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41		
	15:47	24	11:22 (4)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42		
3	09:06		10:40 (1)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43		
	15:48	21	11:22 (4)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:06		10:42 (1)	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:45		
	15:50	17	11:22 (4)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40		
5	09:05		11:11 (4)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46		11:00 (4)
	15:51	11	11:22 (4)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:40	4	11:04 (4)
6	09:04		11:12 (4)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48		10:59 (4)
	15:53	9	11:21 (4)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39	8	11:07 (4)
7	09:04		11:15 (4)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49		10:57 (4)
	15:54	4	11:19 (4)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38	11	11:08 (4)
8	09:03			08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51		10:30 (1)
	15:56			17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37	17	11:10 (4)
9	09:02			08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52		10:29 (1)
	15:57			17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37	21	11:11 (4)
10	09:01			08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54		10:28 (1)
	15:59			17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36	25	11:12 (4)
11	09:00			08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		10:28 (1)
	16:01			17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36	27	11:13 (4)
12	08:59			08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56		10:28 (1)
	16:03			17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:36	28	11:13 (4)
13	08:58			08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58		10:27 (1)
	16:05			17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35	31	11:14 (4)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59		10:28 (1)
	16:07			17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35	31	11:15 (4)
15	08:56			07:56	06:41	06:15	05:02	04:22	04:43	05:45	06:51	07:55	08:06	09:00		10:28 (1)
	16:09			17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35	33	11:16 (4)
16	08:55			07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01		10:28 (1)
	16:11			17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35	34	11:16 (4)
17	08:53			07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02		10:29 (1)
	16:13			17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	33	11:17 (4)
18	08:52			07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03		10:29 (1)
	16:15			17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35	35	11:18 (4)
19	08:50			07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		10:30 (1)
	16:17			17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:35	35	11:19 (4)
20	08:49			07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		10:29 (1)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36	36	11:18 (4)
21	08:47			07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05		10:30 (1)
	16:21			17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36	36	11:19 (4)
22	08:46			07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05		10:30 (1)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	36	11:19 (4)
23	08:44			07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:08	08:13	08:23	09:06		10:31 (1)
	16:25			17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37	36	11:20 (4)
24	08:42			07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06		10:31 (1)
	16:28			17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38	36	11:21 (4)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07		10:32 (1)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38	35	11:21 (4)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07		10:32 (1)
	16:32			17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39	35	11:21 (4)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07		10:33 (1)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	34	11:21 (4)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07		10:34 (1)
	16:37			17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	15:41	33	11:22 (4)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07		10:35 (1)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42	31	11:22 (4)
30	08:31				06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07		10:36 (1)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	31	11:23 (4)
31	08:29				06:57		04:34		05:13	06:19		07:31		09:07		10:36 (1)
	16:44				19:59		22:07		21:44	20:26		16:40		15:44	29	11:22 (4)
Potential sun hours	227			262	365	429	515	539	539	475	386	321	241	207		
Total, worst case		113													781	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.62													0.62	
Total reduction		0.08													0.07	
Total, real		9													57	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: N - Auzinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:12	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: O - Avoti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		10:40 (3)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		10:31 (3)
	15:46	21	11:01 (3)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	11	10:42 (3)
2	09:06		10:40 (3)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		10:30 (3)
	15:47	21	11:01 (3)	16:48	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36			15:42	13	10:43 (3)
3	09:06		10:40 (3)	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		10:30 (3)
	15:48	21	11:01 (3)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	15	10:45 (3)
4	09:06		10:42 (3)	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		10:30 (3)
	15:50	20	11:02 (3)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	16	10:46 (3)
5	09:05		10:43 (3)	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43			08:46		10:29 (3)
	15:51	19	11:02 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29			15:40	18	10:47 (3)
6	09:04		10:43 (3)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		10:29 (3)
	15:53	19	11:02 (3)	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	19	10:48 (3)
7	09:04		10:44 (3)	08:14	07:04	06:37	05:20	04:26	04:32	05:28	06:34	07:38	07:48			08:49		10:29 (3)
	15:54	18	11:02 (3)	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	19	10:48 (3)
8	09:03		10:45 (3)	08:12	07:01	06:35	05:17	04:26	04:33	05:30	06:36	07:40	07:50			08:51		10:29 (3)
	15:56	17	11:02 (3)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	20	10:49 (3)
9	09:02		10:46 (3)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		10:30 (3)
	15:58	15	11:01 (3)	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20			15:37	20	10:50 (3)
10	09:01		10:47 (3)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55			08:54		10:29 (3)
	15:59	13	11:00 (3)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	21	10:50 (3)
11	09:00		10:49 (3)	08:05	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46	07:57			08:55		10:30 (3)
	16:01	11	11:00 (3)	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16			15:36	21	10:51 (3)
12	08:59		10:51 (3)	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59			08:56		10:30 (3)
	16:03	7	10:58 (3)	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14			15:36	22	10:52 (3)
13	08:58			08:01	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		10:31 (3)
	16:05			17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12			15:35	22	10:53 (3)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04			08:59		10:31 (3)
	16:07			17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	22	10:53 (3)
15	08:56			07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06			09:00		10:31 (3)
	16:09			17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08			15:35	23	10:54 (3)
16	08:55			07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08			09:01		10:31 (3)
	16:11			17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06			15:35	23	10:54 (3)
17	08:53			07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10			09:02		10:32 (3)
	16:13			17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04			15:35	23	10:55 (3)
18	08:52			07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13			09:03		10:32 (3)
	16:15			17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02			15:35	23	10:55 (3)
19	08:50			07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15			09:03		10:33 (3)
	16:17			17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01			15:35	23	10:56 (3)
20	08:49			07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17			09:04		10:33 (3)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59			15:36	23	10:56 (3)
21	08:47			07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19			09:05		10:34 (3)
	16:21			17:33	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05	15:57			15:36	23	10:57 (3)
22	08:46			07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21			09:05		10:34 (3)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56			15:37	23	10:57 (3)
23	08:44			07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23			09:06		10:35 (3)
	16:25			17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54			15:37	23	10:58 (3)
24	08:42			07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25			09:06		10:35 (3)
	16:28			17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52			15:38	23	10:58 (3)
25	08:41			07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28			09:07		10:35 (3)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51			15:38	23	10:58 (3)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30			09:07		10:36 (3)
	16:32			17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50			15:39	23	10:59 (3)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32			09:07		10:36 (3)
	16:35			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48			15:40	23	10:59 (3)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34			09:07		10:37 (3)
	16:37			17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47			15:41	22	10:59 (3)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35			09:07		10:37 (3)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46			15:42	23	11:00 (3)
30	08:31				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		10:33 (3)	09:07		10:38 (3)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	7	10:40 (3)	15:43	23	11:01 (3)
31	08:29				06:57		04:34		05:13	06:19		07:32				09:07		10:38 (3)
	16:44				19:59		22:07		21:44	20:26		16:41				15:44	22	11:00 (3)
Potential sun hours	227			262	365	429	515	539	538	475	386	321	241			207		
Total, worst case		202												7			648	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.07												0.09			0.07	
Total, real		15												1			47	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: P - Avotkalni 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: Q - Avotkalni A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: R - Avotkalni B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: S - Adambergi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:09	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:54	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:01	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:33	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: T - Bezdeligas Ligzda

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February	March	April	May	June	July	August	September	October	November		December	
1	09:07	09:50 (4)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34		08:39	09:26 (4)
	15:46 23	11:20 (3)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38		15:43 20	09:46 (4)
2	09:06	09:49 (4)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36		08:41	09:27 (4)
	15:47 25	11:20 (3)	16:48	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36		15:42 25	10:59 (3)
3	09:06	09:48 (4)	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38		08:43	09:28 (4)
	15:48 26	11:19 (3)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33		15:41 28	11:01 (3)
4	09:06	09:48 (4)	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41		08:45	09:29 (4)
	15:50 27	11:20 (3)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31		15:40 30	11:03 (3)
5	09:05	09:47 (4)	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43		08:46	09:30 (4)
	15:51 28	11:20 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29		15:40 30	11:04 (3)
6	09:04	09:46 (4)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45		08:48	09:32 (4)
	15:53 29	11:20 (3)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27		15:39 29	11:06 (3)
7	09:04	09:45 (4)	08:14	07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48		08:49	09:33 (4)
	15:54 29	11:19 (3)	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24		15:38 28	11:06 (3)
8	09:03	09:45 (4)	08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50		08:51	09:35 (4)
	15:56 29	11:19 (3)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22		15:37 27	11:07 (3)
9	09:02	09:44 (4)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52		08:52	09:37 (4)
	15:58 28	11:17 (3)	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20		15:37 26	11:08 (3)
10	09:01	09:44 (4)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55		08:54	09:38 (4)
	15:59 26	11:16 (3)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18		15:36 25	11:09 (3)
11	09:00	09:44 (4)	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		08:55	09:40 (4)
	16:01 20	10:04 (4)	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16		15:36 24	11:10 (3)
12	08:59	09:44 (4)	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	09:29 (4)	08:56	10:49 (3)
	16:03 20	10:04 (4)	17:12	18:17	20:26	21:31	22:23	22:17	21:16	19:53	18:29	16:14 4	09:33 (4)	15:36 21	11:10 (3)
13	08:58	09:44 (4)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	09:26 (4)	08:58	10:49 (3)
	16:05 21	10:05 (4)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12 11	09:37 (4)	15:35 22	11:11 (3)
14	08:57	09:44 (4)	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	09:24 (4)	08:59	10:50 (3)
	16:07 21	10:05 (4)	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10 14	09:38 (4)	15:35 22	11:12 (3)
15	08:56	09:44 (4)	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:24 (4)	09:00	10:50 (3)
	16:09 23	10:07 (4)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08 16	09:40 (4)	15:35 22	11:12 (3)
16	08:55	09:44 (4)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:22 (4)	09:01	10:51 (3)
	16:11 23	10:07 (4)	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06 19	09:41 (4)	15:35 22	11:13 (3)
17	08:53	09:45 (4)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:22 (4)	09:02	10:51 (3)
	16:13 23	10:08 (4)	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04 20	09:42 (4)	15:35 23	11:14 (3)
18	08:52	09:45 (4)	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:21 (4)	09:03	10:51 (3)
	16:15 23	10:08 (4)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02 21	09:42 (4)	15:35 23	11:14 (3)
19	08:50	09:45 (4)	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:22 (4)	09:03	10:52 (3)
	16:17 23	10:08 (4)	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01 21	09:43 (4)	15:35 23	11:15 (3)
20	08:49	09:45 (4)	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:21 (4)	09:04	10:52 (3)
	16:19 23	10:08 (4)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59 23	09:44 (4)	15:36 23	11:15 (3)
21	08:47	09:46 (4)	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:22 (4)	09:05	10:53 (3)
	16:21 23	10:09 (4)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57 23	09:45 (4)	15:36 23	11:16 (3)
22	08:46	09:46 (4)	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:21 (4)	09:05	10:53 (3)
	16:23 23	10:09 (4)	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56 23	09:44 (4)	15:37 23	11:16 (3)
23	08:44	09:47 (4)	07:35	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23	09:22 (4)	09:06	10:54 (3)
	16:25 21	10:08 (4)	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54 23	09:45 (4)	15:37 23	11:17 (3)
24	08:42	09:47 (4)	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:22 (4)	09:06	10:54 (3)
	16:28 21	10:08 (4)	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52 23	09:45 (4)	15:38 23	11:17 (3)
25	08:41	09:48 (4)	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:22 (4)	09:07	10:54 (3)
	16:30 20	10:08 (4)	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51 23	09:45 (4)	15:38 23	11:17 (3)
26	08:39	09:49 (4)	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:23 (4)	09:07	10:55 (3)
	16:32 19	10:08 (4)	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50 23	09:46 (4)	15:39 22	11:17 (3)
27	08:37	09:51 (4)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:23 (4)	09:07	10:55 (3)
	16:35 16	10:07 (4)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48 23	09:46 (4)	15:40 23	11:18 (3)
28	08:35	09:52 (4)	07:22	06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34	09:24 (4)	09:07	10:56 (3)
	16:37 14	10:06 (4)	17:50	18:53	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47 22	09:46 (4)	15:41 22	11:18 (3)
29	08:33	09:55 (4)		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:24 (4)	09:07	10:57 (3)
	16:39 10	10:05 (4)		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46 21	09:45 (4)	15:42 22	11:19 (3)
30	08:31	09:58 (4)		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:26 (4)	09:07	10:58 (3)
	16:41 2	10:00 (4)		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44 20	09:46 (4)	15:43 21	11:19 (3)
31	08:29			06:57		04:34		05:13	06:19		07:32			09:07	10:58 (3)
	16:44			19:59		22:07		21:44	20:26		16:41			15:44 21	11:19 (3)
Potential sun hours	227		262	365	429	515	539	538	475	386	321	241		207	
Total, worst case		659											373		739
Sun reduction		0.13											0.15		0.13
Oper. time red.		0.93											0.93		0.93
Wind dir. red.		0.63											0.63		0.62
Total reduction		0.08											0.09		0.07
Total, real		50											33		55

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: U - Birznieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	16:00	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:22	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:02	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: V - Birztalinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March	April	May	June	July	August	September	October	November		December
1	09:07		08:27	09:25 (13)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34		08:39
	15:45		16:46 23	09:48 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38		15:43
2	09:06		08:25	09:25 (13)	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36		08:41
	15:47		16:48 22	09:47 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36		15:42
3	09:06		08:23	09:26 (13)	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38		08:43
	15:48		16:51 20	09:46 (13)	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33		15:41
4	09:05		08:21	09:28 (13)	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	09:02 (13)	08:44
	15:49		16:53 18	09:46 (13)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31 8	09:10 (13)	15:40
5	09:05		08:19	09:28 (13)	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	09:00 (13)	08:46
	15:51		16:55 16	09:44 (13)	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29 13	09:13 (13)	15:39
6	09:04		08:17	09:31 (13)	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	08:58 (13)	08:48
	15:52		16:58 12	09:43 (13)	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:26 16	09:14 (13)	15:39
7	09:04		08:14	09:33 (13)	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:48	08:57 (13)	08:49
	15:54		17:00 6	09:39 (13)	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24 19	09:16 (13)	15:38
8	09:03		08:12		07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:57 (13)	08:51
	15:56		17:02		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22 20	09:17 (13)	15:37
9	09:02		08:10		06:58	06:32	05:15	04:25	04:34	05:32	06:38	07:42	07:52	08:56 (13)	08:52
	15:57		17:05		18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20 21	09:17 (13)	15:37
10	09:01		08:07		06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:56 (13)	08:54
	15:59		17:07		18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:35	16:18 23	09:19 (13)	15:36
11	09:00		08:05		06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55 (13)	08:55
	16:01		17:10		18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16 23	09:18 (13)	15:36
12	08:59		08:03		06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:55 (13)	08:56
	16:03		17:12		18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14 24	09:19 (13)	15:35
13	08:58		08:00		06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:55 (13)	08:58
	16:04		17:14		18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12 24	09:19 (13)	15:35
14	08:57		07:58		06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:55 (13)	08:59
	16:06		17:17		18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10 24	09:19 (13)	15:35
15	08:56		07:56		06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	08:56 (13)	09:00
	16:08		17:19		18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08 24	09:20 (13)	15:35
16	08:54		07:53		06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	08:56 (13)	09:01
	16:10		17:21		18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06 23	09:19 (13)	15:35
17	08:53	09:30 (13)	07:51		06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	08:57 (13)	09:02
	16:12 6	09:36 (13)	17:24		18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04 23	09:20 (13)	15:35
18	08:52	09:29 (13)	07:48		06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12	08:57 (13)	09:03
	16:14 10	09:39 (13)	17:26		18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02 22	09:19 (13)	15:35
19	08:50	09:27 (13)	07:46		06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	08:58 (13)	09:03
	16:17 13	09:40 (13)	17:29		18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00 21	09:19 (13)	15:35
20	08:49	09:25 (13)	07:43		06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	08:59 (13)	09:04
	16:19 16	09:41 (13)	17:31		18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59 20	09:19 (13)	15:35
21	08:47	09:24 (13)	07:40		06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:00 (13)	09:05
	16:21 19	09:43 (13)	17:33		18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57 19	09:19 (13)	15:36
22	08:46	09:24 (13)	07:38		06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:01 (13)	09:05
	16:23 20	09:44 (13)	17:36		18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55 17	09:18 (13)	15:36
23	08:44	09:23 (13)	07:35		06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:03 (13)	09:06
	16:25 21	09:44 (13)	17:38		18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54 13	09:16 (13)	15:37
24	08:42	09:23 (13)	07:33		06:16	05:51	04:45	04:21	04:59	06:04	07:10	08:15	08:25	09:06 (13)	09:06
	16:27 22	09:45 (13)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52 10	09:16 (13)	15:37
25	08:41	09:23 (13)	07:30		06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:08 (13)	09:07
	16:30 23	09:46 (13)	17:43		18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51 6	09:14 (13)	15:38
26	08:39	09:23 (13)	07:27		06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:07
	16:32 24	09:47 (13)	17:45		18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:49		15:39
27	08:37	09:23 (13)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:07
	16:34 24	09:47 (13)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48		15:40
28	08:35	09:24 (13)	07:22		06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:07
	16:37 24	09:48 (13)	17:50		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47		15:41
29	08:33	09:23 (13)			07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:07
	16:39 24	09:47 (13)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45		15:42
30	08:31	09:24 (13)			06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:07
	16:41 23	09:47 (13)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44		15:43
31	08:29	09:24 (13)			06:57		04:34		05:13	06:19		07:31			09:07
	16:44 24	09:48 (13)			19:59		22:07		21:44	20:26		16:40			15:44
Potential sun hours	227		262		365	429	516	539	539	475	386	321	241		207
Total, worst case	293		117										413		
Sun reduction	0.13		0.22										0.15		
Oper. time red.	0.93		0.93										0.93		
Wind dir. red.	0.63		0.63										0.63		
Total reduction	0.08		0.13										0.09		
Total, real	23		15										38		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: W - Birzuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April	May	June
1	09:07		12:20 (11)	08:27		09:49 (12)	07:20		08:16 (13)	06:54	05:34	04:33
	15:45	52	14:10 (10)	16:46	23	10:12 (12)	17:52	39	08:55 (13)	20:01	21:07	22:09
2	09:06		12:22 (11)	08:25		09:49 (12)	07:17		08:16 (13)	06:51	05:31	04:31
	15:47	51	14:11 (10)	16:48	22	10:11 (12)	17:54	39	08:55 (13)	20:03	21:10	22:10
3	09:06		12:22 (11)	08:23		09:51 (12)	07:14		08:15 (13)	06:48	05:29	04:30
	15:48	50	14:11 (10)	16:51	19	10:10 (12)	17:56	39	08:54 (13)	20:06	21:12	22:12
4	09:05		12:24 (11)	08:21		09:52 (12)	07:11		08:15 (13)	06:45	05:26	04:29
	15:49	48	14:11 (10)	16:53	16	10:08 (12)	17:59	39	08:54 (13)	20:08	21:14	22:13
5	09:05		12:25 (11)	08:19		09:55 (12)	07:09		08:16 (13)	06:43	05:24	04:28
	15:51	47	14:12 (10)	16:55	11	10:06 (12)	18:01	38	08:54 (13)	20:10	21:16	22:15
6	09:04		12:28 (11)	08:16			07:06		08:15 (13)	06:40	05:22	04:27
	15:52	44	14:13 (10)	16:58			18:03	39	08:54 (13)	20:12	21:18	22:16
7	09:04		09:50 (12)	08:14			07:03		08:15 (13)	06:37	05:19	04:26
	15:54	42	14:14 (10)	17:00			18:06	38	08:53 (13)	20:14	21:21	22:17
8	09:03		09:47 (12)	08:12			07:01		08:16 (13)	06:34	05:17	04:25
	15:56	46	14:13 (10)	17:02			18:08	36	08:52 (13)	20:17	21:23	22:18
9	09:02		09:47 (12)	08:10			06:58		08:16 (13)	06:32	05:15	04:25
	15:57	48	14:14 (10)	17:05			18:10	34	08:50 (13)	20:19	21:25	22:19
10	09:01		09:46 (12)	08:07			06:55		08:17 (13)	06:29	05:12	04:24
	15:59	51	14:14 (10)	17:07			18:12	33	08:50 (13)	20:21	21:27	22:20
11	09:00		09:46 (12)	08:05			06:52		08:18 (13)	06:26	05:10	04:23
	16:01	53	14:15 (10)	17:10			18:15	30	08:48 (13)	20:23	21:29	22:21
12	08:59		09:45 (12)	08:03			06:50		08:19 (13)	06:23	05:08	04:23
	16:03	55	14:15 (10)	17:12			18:17	27	08:46 (13)	20:25	21:31	22:22
13	08:58		09:45 (12)	08:00			06:47		08:20 (13)	06:21	05:06	04:22
	16:05	56	14:16 (10)	17:14			18:19	24	08:44 (13)	20:28	21:33	22:23
14	08:57		09:44 (12)	07:58			06:44		08:22 (13)	06:18	05:04	04:22
	16:06	57	14:15 (10)	17:17			18:21	19	08:41 (13)	20:30	21:35	22:24
15	08:56		09:44 (12)	07:55			06:41		08:25 (13)	06:15	05:02	04:21
	16:08	58	14:16 (10)	17:19			18:24	12	08:37 (13)	20:32	21:38	22:25
16	08:54		09:44 (12)	07:53			06:38			06:12	05:00	04:21
	16:10	59	14:16 (10)	17:21			18:26			20:34	21:40	22:25
17	08:53		09:43 (12)	07:51			06:36			06:10	04:58	04:21
	16:12	60	14:16 (10)	17:24			18:28			20:36	21:42	22:26
18	08:52		09:44 (12)	07:48			06:33			06:07	04:56	04:21
	16:14	60	14:17 (10)	17:26			18:30			20:39	21:44	22:26
19	08:50		09:44 (12)	07:46		08:31 (13)	06:30			06:04	04:54	04:21
	16:17	60	14:17 (10)	17:29	11	08:42 (13)	18:32			20:41	21:46	22:27
20	08:49		09:43 (12)	07:43		08:27 (13)	06:27			06:02	04:52	04:21
	16:19	60	14:16 (10)	17:31	18	08:45 (13)	18:35			20:43	21:48	22:27
21	08:47		09:43 (12)	07:40		08:25 (13)	06:25			05:59	04:50	04:21
	16:21	60	14:16 (10)	17:33	23	08:48 (13)	18:37			20:45	21:50	22:28
22	08:46		09:43 (12)	07:38		08:23 (13)	06:22			05:57	04:48	04:21
	16:23	60	14:16 (10)	17:36	27	08:50 (13)	18:39			20:48	21:51	22:28
23	08:44		09:44 (12)	07:35		08:21 (13)	06:19			05:54	04:46	04:21
	16:25	57	14:15 (10)	17:38	30	08:51 (13)	18:41			20:50	21:53	22:28
24	08:42		09:44 (12)	07:33		08:21 (13)	06:16			05:51	04:45	04:22
	16:27	57	14:15 (10)	17:40	32	08:53 (13)	18:43			20:52	21:55	22:28
25	08:41		09:44 (12)	07:30		08:19 (13)	06:13			05:49	04:43	04:22
	16:30	54	14:14 (10)	17:43	34	08:53 (13)	18:46			20:54	21:57	22:28
26	08:39		09:45 (12)	07:27		08:18 (13)	06:10			05:46	04:41	04:22
	16:32	51	14:13 (10)	17:45	36	08:54 (13)	18:48			20:56	21:59	22:28
27	08:37		09:45 (12)	07:25		08:17 (13)	06:08			05:44	04:40	04:23
	16:34	49	14:12 (10)	17:47	37	08:54 (13)	18:50			20:59	22:01	22:28
28	08:35		09:46 (12)	07:22		08:17 (13)	06:05			05:41	04:38	04:24
	16:37	44	14:11 (10)	17:50	38	08:55 (13)	18:52			21:01	22:02	22:27
29	08:33		09:46 (12)				07:02			05:39	04:37	04:24
	16:39	37	14:07 (10)				19:55			21:03	22:04	22:27
30	08:31		09:46 (12)				06:59			05:36	04:35	04:25
	16:41	27	10:13 (12)				19:57			21:05	22:06	22:27
31	08:29		09:47 (12)				06:57				04:34	
	16:44	26	10:13 (12)				19:59				22:07	
Potential sun hours	227			262			365			429	515	539
Total, worst case		1579			377			486				
Sun reduction		0.13			0.22			0.37				
Oper. time red.		0.93			0.93			0.93				
Wind dir. red.		0.63			0.62			0.62				
Total reduction		0.08			0.13			0.21				
Total, real		120			48			102				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: W - Birzuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September			October		November			December		
1	04:26	05:15	06:21			07:24		08:59 (13)	07:34		08:39		09:28 (12)
	22:26	21:41	20:23			18:59	26	09:25 (13)	16:38		15:43	53	13:57 (10)
2	04:27	05:17	06:23			07:27		08:57 (13)	07:36		08:41		09:29 (12)
	22:26	21:39	20:21			18:57	29	09:26 (13)	16:36		15:42	52	13:58 (10)
3	04:28	05:19	06:25			07:29		08:55 (13)	07:38		08:43		09:31 (12)
	22:25	21:37	20:18			18:54	32	09:27 (13)	16:33		15:41	49	13:58 (10)
4	04:29	05:21	06:27			07:31		08:54 (13)	07:41		08:44		09:32 (12)
	22:24	21:35	20:15			18:51	34	09:28 (13)	16:31		15:40	47	13:58 (10)
5	04:30	05:23	06:29			07:33		08:53 (13)	07:43		08:46		09:35 (12)
	22:24	21:32	20:12			18:48	36	09:29 (13)	16:29		15:39	42	13:59 (10)
6	04:31	05:25	06:31			07:35		08:52 (13)	07:45		09:24 (12)	08:48	12:13 (11)
	22:23	21:30	20:10			18:46	37	09:29 (13)	16:26	12	09:36 (12)	15:39	44 13:58 (10)
7	04:32	05:27	06:34			07:37		08:51 (13)	07:47		09:23 (12)	08:49	12:12 (11)
	22:22	21:28	20:07			18:43	38	09:29 (13)	16:24	16	09:39 (12)	15:38	47 13:59 (10)
8	04:33	05:30	06:36			07:40		08:51 (13)	07:50		09:20 (12)	08:51	12:12 (11)
	22:21	21:26	20:04			18:40	38	09:29 (13)	16:22	20	09:40 (12)	15:37	48 13:59 (10)
9	04:35	05:32	06:38			07:42		08:50 (13)	07:52		09:20 (12)	08:52	12:12 (11)
	22:20	21:23	20:01			18:37	39	09:29 (13)	16:20	22	09:42 (12)	15:37	49 14:00 (10)
10	04:36	05:34	06:40			07:44		08:50 (13)	07:54		09:19 (12)	08:54	12:11 (11)
	22:19	21:21	19:58			18:35	39	09:29 (13)	16:18	24	09:43 (12)	15:36	51 14:00 (10)
11	04:37	05:36	06:42			07:46		08:49 (13)	07:57		09:18 (12)	08:55	12:11 (11)
	22:18	21:18	19:56			18:32	39	09:28 (13)	16:16	25	09:43 (12)	15:36	52 14:01 (10)
12	04:39	05:38	06:44			07:48		08:50 (13)	07:59		09:18 (12)	08:56	12:11 (11)
	22:16	21:16	19:53			18:29	38	09:28 (13)	16:14	27	09:45 (12)	15:35	53 14:01 (10)
13	04:40	05:40	06:46			07:51		08:50 (13)	08:01		09:17 (12)	08:57	12:11 (11)
	22:15	21:13	19:50			18:26	38	09:28 (13)	16:12	38	13:39 (10)	15:35	53 14:01 (10)
14	04:42	05:42	06:48			07:53		08:49 (13)	08:03		09:18 (12)	08:59	12:11 (11)
	22:14	21:11	19:47			18:24	38	09:27 (13)	16:10	44	13:43 (10)	15:35	55 14:02 (10)
15	04:43	05:44	06:50			07:55		08:50 (13)	08:06		09:17 (12)	09:00	12:11 (11)
	22:12	21:08	19:44			18:21	37	09:27 (13)	16:08	48	13:44 (10)	15:35	55 14:02 (10)
16	04:45	05:47	06:53			07:57		08:50 (13)	08:08		09:17 (12)	09:01	12:12 (11)
	22:11	21:06	19:42			18:18	35	09:25 (13)	16:06	52	13:46 (10)	15:35	54 14:02 (10)
17	04:47	05:49	06:55			07:59		08:51 (13)	08:10		09:18 (12)	09:02	12:12 (11)
	22:09	21:03	19:39			18:16	33	09:24 (13)	16:04	54	13:48 (10)	15:35	55 14:03 (10)
18	04:48	05:51	06:57			08:02		08:52 (13)	08:12		09:18 (12)	09:02	12:12 (11)
	22:08	21:01	19:36			18:13	31	09:23 (13)	16:02	57	13:49 (10)	15:35	56 14:03 (10)
19	04:50	05:53	06:59			08:04		08:53 (13)	08:15		09:19 (12)	09:03	12:12 (11)
	22:06	20:58	19:33			18:10	28	09:21 (13)	16:00	57	13:50 (10)	15:35	55 14:03 (10)
20	04:52	05:55	07:01			08:06		08:55 (13)	08:17		09:18 (12)	09:04	12:13 (11)
	22:05	20:56	19:30			18:08	25	09:20 (13)	15:59	60	13:51 (10)	15:35	55 14:04 (10)
21	04:54	05:57	07:03			08:08		08:56 (13)	08:19		09:19 (12)	09:05	12:13 (11)
	22:03	20:53	19:27			18:05	22	09:18 (13)	15:57	59	13:52 (10)	15:36	56 14:05 (10)
22	04:55	05:59	07:05			08:11		08:59 (13)	08:21		09:20 (12)	09:05	12:13 (11)
	22:01	20:50	19:25			18:03	17	09:16 (13)	15:55	59	13:52 (10)	15:36	56 14:05 (10)
23	04:57	06:02	07:07			08:13		09:03 (13)	08:23		09:20 (12)	09:06	12:15 (11)
	21:59	20:48	19:22			18:00	8	09:11 (13)	15:54	61	13:53 (10)	15:37	55 14:06 (10)
24	04:59	06:04	07:09			08:15			08:25		09:21 (12)	09:06	12:15 (11)
	21:58	20:45	19:19			17:58			15:52	60	13:54 (10)	15:37	55 14:06 (10)
25	05:01	06:06	07:12			07:18			08:27		09:21 (12)	09:06	12:15 (11)
	21:56	20:42	19:16			16:55			15:51	61	13:54 (10)	15:38	56 14:06 (10)
26	05:03	06:08	07:14			07:20			08:29		09:23 (12)	09:07	12:16 (11)
	21:54	20:40	19:13			16:53			15:49	59	13:55 (10)	15:39	55 14:07 (10)
27	05:05	06:10	07:16			07:22			08:31		09:23 (12)	09:07	12:16 (11)
	21:52	20:37	19:11			16:50			15:48	58	13:55 (10)	15:40	55 14:07 (10)
28	05:07	06:12	07:18		09:09 (13)	07:24			08:33		09:24 (12)	09:07	12:17 (11)
	21:50	20:34	19:08	8	09:17 (13)	16:48			15:47	58	13:56 (10)	15:41	54 14:08 (10)
29	05:09	06:14	07:20		09:04 (13)	07:27			08:35		09:25 (12)	09:07	12:18 (11)
	21:48	20:32	19:05	17	09:21 (13)	16:45			15:45	56	13:56 (10)	15:42	55 14:09 (10)
30	05:11	06:17	07:22		09:01 (13)	07:29			08:37		09:26 (12)	09:07	12:18 (11)
	21:46	20:29	19:02	22	09:23 (13)	16:43			15:44	55	13:56 (10)	15:43	53 14:08 (10)
31	05:13	06:19				07:31						09:07	12:19 (11)
	21:44	20:26				16:40						15:44	53 14:09 (10)
Potential sun hours	539	475	386			321			241			207	
Total, worst case				47			737			1142			1628
Sun reduction				0.43			0.31			0.15			0.13
Oper. time red.				0.93			0.93			0.93			0.93
Wind dir. red.				0.62			0.62			0.63			0.64
Total reduction				0.25			0.18			0.09			0.08
Total, real				12			129			102			122

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: X - Bruveli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:49	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:25	06:32	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:26	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:35
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:14	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:59
	16:07	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06	09:00
	16:08	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:44	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:10	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:55	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:13	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: Y - Caunites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:33	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: Z - Cerini 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March		April		May	June
1	09:07		08:27		09:44 (2)	07:20	07:52 (5)	06:54	07:38 (4)	05:34	04:33
	15:46		16:46	21	10:05 (2)	17:52	20 08:12 (5)	20:01	53 08:39 (3)	21:08	22:09
2	09:06		08:25		09:44 (2)	07:17	07:51 (5)	06:51	07:38 (4)	05:31	04:32
	15:47		16:49	19	10:03 (2)	17:54	21 08:12 (5)	20:04	51 08:38 (3)	21:10	22:10
3	09:06		08:23		09:46 (2)	07:14	07:50 (5)	06:48	07:38 (4)	05:29	04:31
	15:48		16:51	16	10:02 (2)	17:57	22 08:12 (5)	20:06	46 08:35 (3)	21:12	22:12
4	09:06		08:21		09:48 (2)	07:12	07:50 (5)	06:46	07:40 (4)	05:27	04:30
	15:50		16:53	13	10:01 (2)	17:59	23 08:13 (5)	20:08	40 08:34 (3)	21:14	22:13
5	09:05		08:19		09:52 (2)	07:09	07:50 (5)	06:43	07:41 (4)	05:24	04:29
	15:51		16:56	5	09:57 (2)	18:01	22 08:12 (5)	20:10	32 08:31 (3)	21:16	22:15
6	09:04		08:17			07:06	07:50 (5)	06:40	07:43 (4)	05:22	04:28
	15:53		16:58			18:04	22 08:12 (5)	20:12	19 08:26 (3)	21:19	22:16
7	09:04		08:14			07:04	07:50 (5)	06:37		05:20	04:27
	15:54		17:00			18:06	21 08:11 (5)	20:15		21:21	22:17
8	09:03		08:12			07:01	07:51 (5)	06:35		05:17	04:26
	15:56		17:03			18:08	18 08:09 (5)	20:17		21:23	22:18
9	09:02		08:10			06:58	07:52 (5)	06:32		05:15	04:25
	15:58		17:05			18:10	17 08:09 (5)	20:19		21:25	22:19
10	09:01	09:45 (2)	08:08			06:55	07:54 (5)	06:29		05:13	04:24
	15:59	5 09:50 (2)	17:08			18:13	12 08:06 (5)	20:21		21:27	22:21
11	09:00	09:43 (2)	08:05			06:53	07:57 (5)	06:26		05:11	04:24
	16:01	10 09:53 (2)	17:10			18:15	5 08:02 (5)	20:23		21:29	22:22
12	08:59	09:42 (2)	08:03			06:50		06:24		05:08	04:23
	16:03	12 09:54 (2)	17:12			18:17		20:26		21:31	22:22
13	08:58	09:41 (2)	08:00			06:47		06:21		05:06	04:23
	16:05	15 09:56 (2)	17:15			18:19		20:28		21:34	22:23
14	08:57	09:40 (2)	07:58			06:44		06:18		05:04	04:22
	16:07	17 09:57 (2)	17:17			18:22		20:30		21:36	22:24
15	08:56	09:40 (2)	07:56			06:42	07:23 (3)	06:15		05:02	04:22
	16:09	19 09:59 (2)	17:19			18:24	14 07:37 (3)	20:32		21:38	22:25
16	08:55	09:40 (2)	07:53			06:39	07:19 (3)	06:13		05:00	04:21
	16:11	19 09:59 (2)	17:22			18:26	20 07:39 (3)	20:34		21:40	22:25
17	08:53	09:39 (2)	07:51			06:36	07:17 (3)	06:10		04:58	04:21
	16:13	21 10:00 (2)	17:24			18:28	24 07:41 (3)	20:37		21:42	22:26
18	08:52	09:39 (2)	07:48			06:33	07:15 (3)	06:07		04:56	04:21
	16:15	23 10:02 (2)	17:27			18:30	27 07:42 (3)	20:39		21:44	22:27
19	08:50	09:39 (2)	07:46			06:30	07:13 (3)	06:05		04:54	04:21
	16:17	23 10:02 (2)	17:29			18:33	30 07:43 (3)	20:41		21:46	22:27
20	08:49	09:39 (2)	07:43			06:28	07:13 (3)	06:02		04:52	04:21
	16:19	24 10:03 (2)	17:31			18:35	31 07:44 (3)	20:43		21:48	22:27
21	08:47	09:39 (2)	07:41			06:25	07:11 (3)	05:59		04:50	04:21
	16:21	25 10:04 (2)	17:34			18:37	34 07:45 (3)	20:45		21:50	22:28
22	08:46	09:39 (2)	07:38			06:22	07:10 (3)	05:57		04:48	04:21
	16:23	25 10:04 (2)	17:36			18:39	35 07:45 (3)	20:48		21:52	22:28
23	08:44	09:39 (2)	07:36			06:19	06:47 (4)	05:54		04:47	04:22
	16:26	25 10:04 (2)	17:38			18:42	47 07:45 (3)	20:50		21:54	22:28
24	08:42	09:39 (2)	07:33			06:16	06:44 (4)	05:52		04:45	04:22
	16:28	26 10:05 (2)	17:41			18:44	52 07:44 (3)	20:52		21:55	22:28
25	08:41	09:39 (2)	07:30		07:59 (5)	06:14	06:43 (4)	05:49		04:43	04:22
	16:30	26 10:05 (2)	17:43	7	08:06 (5)	18:46	55 07:45 (3)	20:54		21:57	22:28
26	08:39	09:40 (2)	07:28		07:55 (5)	06:11	06:42 (4)	05:46		04:42	04:23
	16:32	26 10:06 (2)	17:45	14	08:09 (5)	18:48	57 07:45 (3)	20:57		21:59	22:28
27	08:37	09:40 (2)	07:25		07:54 (5)	06:08	06:40 (4)	05:44		04:40	04:23
	16:35	26 10:06 (2)	17:48	17	08:11 (5)	18:50	59 07:44 (3)	20:59		22:01	22:28
28	08:35	09:41 (2)	07:22		07:53 (5)	06:05	06:39 (4)	05:41		04:39	04:24
	16:37	25 10:06 (2)	17:50	19	08:12 (5)	18:53	60 07:43 (3)	21:01		22:02	22:27
29	08:33	09:41 (2)				07:02	07:38 (4)	05:39		04:37	04:25
	16:39	25 10:06 (2)				19:55	59 08:42 (3)	21:03		22:04	22:27
30	08:31	09:41 (2)				07:00	07:39 (4)	05:36		04:36	04:25
	16:42	24 10:05 (2)				19:57	58 08:42 (3)	21:05		22:06	22:27
31	08:29	09:42 (2)				06:57	07:38 (4)			04:34	
	16:44	23 10:05 (2)				19:59	57 08:41 (3)			22:07	
Potential sun hours	227		262			365		429		515	539
Total, worst case		464		131			922		241		
Sun reduction		0.13		0.22			0.37		0.46		
Oper. time red.		0.93		0.93			0.93		0.93		
Wind dir. red.		0.63		0.61			0.62		0.63		
Total reduction		0.08		0.13			0.21		0.27		
Total, real		35		16			194		65		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: Z - Cerini 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September		October		November		December		
1	04:26	05:15	06:21		07:25		07:34		08:39		09:25 (2)
	22:26	21:42	20:24		19:00		16:38		15:44	10	09:35 (2)
2	04:27	05:17	06:23		07:27		07:36		08:41		09:28 (2)
	22:26	21:39	20:21		18:57		16:36		15:42	5	09:33 (2)
3	04:28	05:19	06:25		07:29	08:33 (5)	07:38		08:43		
	22:25	21:37	20:18		18:54	10 08:43 (5)	16:34		15:41		
4	04:29	05:22	06:27		07:31	08:30 (5)	07:41		08:44		
	22:24	21:35	20:15		18:51	15 08:45 (5)	16:31		15:41		
5	04:30	05:24	06:30		07:33	08:28 (5)	07:43		08:46		
	22:24	21:33	20:13		18:49	18 08:46 (5)	16:29		15:40		
6	04:31	05:26	06:32	07:39 (4)	07:35	08:27 (5)	07:45	09:21 (2)	08:48		
	22:23	21:30	20:10	18 08:22 (3)	18:46	19 08:46 (5)	16:27	6 09:27 (2)	15:39		
7	04:32	05:28	06:34	07:36 (4)	07:38	08:27 (5)	07:48	09:18 (2)	08:49		
	22:22	21:28	20:07	32 08:26 (3)	18:43	21 08:48 (5)	16:25	13 09:31 (2)	15:38		
8	04:34	05:30	06:36	07:34 (4)	07:40	08:26 (5)	07:50	09:17 (2)	08:51		
	22:21	21:26	20:04	40 08:28 (3)	18:40	22 08:48 (5)	16:22	16 09:33 (2)	15:38		
9	04:35	05:32	06:38	07:33 (4)	07:42	08:25 (5)	07:52	09:15 (2)	08:52		
	22:20	21:23	20:01	46 08:30 (3)	18:38	22 08:47 (5)	16:20	19 09:34 (2)	15:37		
10	04:36	05:34	06:40	07:31 (4)	07:44	08:24 (5)	07:55	09:14 (2)	08:54		
	22:19	21:21	19:59	50 08:31 (3)	18:35	23 08:47 (5)	16:18	21 09:35 (2)	15:37		
11	04:38	05:36	06:42	07:30 (4)	07:46	08:25 (5)	07:57	09:13 (2)	08:55		
	22:18	21:18	19:56	54 08:31 (3)	18:32	22 08:47 (5)	16:16	23 09:36 (2)	15:36		
12	04:39	05:38	06:44	07:30 (4)	07:49	08:25 (5)	07:59	09:13 (2)	08:56		
	22:17	21:16	19:53	56 08:32 (3)	18:29	21 08:46 (5)	16:14	24 09:37 (2)	15:36		
13	04:41	05:41	06:47	07:29 (4)	07:51	08:25 (5)	08:01	09:13 (2)	08:58		
	22:15	21:14	19:50	57 08:32 (3)	18:27	20 08:45 (5)	16:12	25 09:38 (2)	15:36		
14	04:42	05:43	06:49	07:29 (4)	07:53	08:26 (5)	08:04	09:13 (2)	08:59		
	22:14	21:11	19:47	59 08:33 (3)	18:24	18 08:44 (5)	16:10	25 09:38 (2)	15:35		
15	04:44	05:45	06:51	07:29 (4)	07:55	08:27 (5)	08:06	09:13 (2)	09:00		
	22:13	21:09	19:45	59 08:33 (3)	18:21	15 08:42 (5)	16:08	26 09:39 (2)	15:35		
16	04:45	05:47	06:53	07:29 (4)	07:57	08:28 (5)	08:08	09:12 (2)	09:01		
	22:11	21:06	19:42	58 08:32 (3)	18:19	12 08:40 (5)	16:06	27 09:39 (2)	15:35		
17	04:47	05:49	06:55	07:30 (4)	08:00	08:33 (5)	08:10	09:13 (2)	09:02		
	22:10	21:03	19:39	57 08:33 (3)	18:16	3 08:36 (5)	16:04	26 09:39 (2)	15:35		
18	04:49	05:51	06:57	07:30 (4)	08:02		08:13	09:13 (2)	09:03		
	22:08	21:01	19:36	57 08:33 (3)	18:13		16:02	26 09:39 (2)	15:35		
19	04:50	05:53	06:59	07:31 (4)	08:04		08:15	09:14 (2)	09:03		
	22:06	20:58	19:33	53 08:32 (3)	18:11		16:01	25 09:39 (2)	15:36		
20	04:52	05:56	07:01	07:33 (4)	08:06		08:17	09:14 (2)	09:04		
	22:05	20:56	19:31	47 08:31 (3)	18:08		15:59	25 09:39 (2)	15:36		
21	04:54	05:58	07:03	07:38 (4)	08:09		08:19	09:15 (2)	09:05		
	22:03	20:53	19:28	37 08:31 (3)	18:06		15:57	25 09:40 (2)	15:36		
22	04:56	06:00	07:06	07:56 (3)	08:11		08:21	09:15 (2)	09:05		
	22:01	20:51	19:25	33 08:29 (3)	18:03		15:56	24 09:39 (2)	15:37		
23	04:58	06:02	07:08	07:56 (3)	08:13		08:23	09:16 (2)	09:06		
	22:00	20:48	19:22	32 08:28 (3)	18:00		15:54	23 09:39 (2)	15:37		
24	05:00	06:04	07:10	07:56 (3)	08:15		08:25	09:16 (2)	09:06		
	21:58	20:45	19:19	31 08:27 (3)	17:58		15:53	23 09:39 (2)	15:38		
25	05:01	06:06	07:12	07:57 (3)	07:18		08:27	09:17 (2)	09:07		
	21:56	20:43	19:16	28 08:25 (3)	16:55		15:51	21 09:38 (2)	15:39		
26	05:03	06:08	07:14	07:58 (3)	07:20		08:30	09:19 (2)	09:07		
	21:54	20:40	19:14	25 08:23 (3)	16:53		15:50	20 09:39 (2)	15:39		
27	05:05	06:10	07:16	08:01 (3)	07:22		08:32	09:19 (2)	09:07		
	21:52	20:37	19:11	21 08:22 (3)	16:50		15:48	19 09:38 (2)	15:40		
28	05:07	06:13	07:18	08:03 (3)	07:25		08:33	09:20 (2)	09:07		
	21:50	20:34	19:08	16 08:19 (3)	16:48		15:47	17 09:37 (2)	15:41		
29	05:09	06:15	07:20	08:07 (3)	07:27		08:35	09:21 (2)	09:07		
	21:48	20:32	19:05	7 08:14 (3)	16:45		15:46	15 09:36 (2)	15:42		
30	05:11	06:17	07:23		07:29		08:37	09:24 (2)	09:07		
	21:46	20:29	19:02		16:43		15:45	12 09:36 (2)	15:43		
31	05:13	06:19			07:31				09:07		
	21:44	20:26			16:41				15:44		
Potential sun hours	538	474	386		321		241		207		
Total, worst case				973		261		526		15	
Sun reduction				0.43		0.31		0.15		0.13	
Oper. time red.				0.93		0.93		0.93		0.93	
Wind dir. red.				0.63		0.59		0.63		0.63	
Total reduction				0.25		0.17		0.09		0.07	
Total, real				244		44		47		1	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AA - Cinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:07	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:47
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:55	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	08:59
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:00
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:38	18:15	16:04	15:35
18	08:51	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:10	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:47	19:22	18:00	15:53	15:37
24	08:42	07:32	06:16	05:51	04:44	04:21	04:59	06:03	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:55	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:26	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AB - Dolari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:40	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:41		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AC - Donavas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AD - Drupas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March		April		May	June
1	09:07		08:27		09:47 (2)	07:20	07:49 (5)	06:54	07:29 (4)	05:34	04:33
	15:46		16:46	24	10:11 (2)	17:52	17	08:06 (5)	20:01	65	08:34 (3)	21:08	22:09
2	09:06		08:25		09:47 (2)	07:17	07:48 (5)	06:51	07:28 (4)	05:31	04:32
	15:47		16:49	23	10:10 (2)	17:54	19	08:07 (5)	20:04	65	08:33 (3)	21:10	22:10
3	09:06		08:23		09:48 (2)	07:14	07:46 (5)	06:48	07:27 (4)	05:29	04:31
	15:48		16:51	21	10:09 (2)	17:57	21	08:07 (5)	20:06	66	08:33 (3)	21:12	22:12
4	09:06		08:21		09:50 (2)	07:12	07:46 (5)	06:46	07:27 (4)	05:27	04:30
	15:50		16:53	18	10:08 (2)	17:59	23	08:09 (5)	20:08	66	08:33 (3)	21:14	22:13
5	09:05		08:19		09:51 (2)	07:09	07:45 (5)	06:43	07:27 (4)	05:24	04:29
	15:51		16:56	15	10:06 (2)	18:01	24	08:09 (5)	20:10	64	08:32 (3)	21:16	22:15
6	09:04		08:17		09:55 (2)	07:06	07:45 (5)	06:40	07:26 (4)	05:22	04:28
	15:53		16:58	8	10:03 (2)	18:04	24	08:09 (5)	20:12	64	08:31 (3)	21:19	22:16
7	09:04		08:14			07:04	07:44 (5)	06:37	07:27 (4)	05:20	04:27
	15:54		17:00			18:06	24	08:08 (5)	20:15	62	08:31 (3)	21:21	22:17
8	09:03		08:12			07:01	07:44 (5)	06:35	07:27 (4)	05:17	04:26
	15:56		17:03			18:08	24	08:08 (5)	20:17	59	08:29 (3)	21:23	22:18
9	09:02		09:50 (2)	08:10		06:58	07:45 (5)	06:32	07:28 (4)	05:15	04:25
	15:58	2	09:52 (2)	17:05		18:10	23	08:08 (5)	20:19	54	08:28 (3)	21:25	22:19
10	09:01		09:48 (2)	08:08		06:55	07:45 (5)	06:29	07:29 (4)	05:13	04:24
	15:59	8	09:56 (2)	17:08		18:13	22	08:07 (5)	20:21	49	08:26 (3)	21:27	22:20
11	09:00		09:47 (2)	08:05		06:53	07:45 (5)	06:26	07:31 (4)	05:11	04:24
	16:01	12	09:59 (2)	17:10		18:15	20	08:05 (5)	20:23	43	08:25 (3)	21:29	22:21
12	08:59		09:45 (2)	08:03		06:50	07:46 (5)	06:24	07:33 (4)	05:08	04:23
	16:03	15	10:00 (2)	17:12		18:17	18	08:04 (5)	20:26	35	08:23 (3)	21:31	22:22
13	08:58		09:45 (2)	08:00		06:47	07:48 (5)	06:21	07:58 (3)	05:06	04:23
	16:05	17	10:02 (2)	17:15		18:19	13	08:01 (5)	20:28	22	08:20 (3)	21:34	22:23
14	08:57		09:44 (2)	07:58		06:44	07:51 (5)	06:18	08:00 (3)	05:04	04:22
	16:07	18	10:02 (2)	17:17		18:22	8	07:59 (5)	20:30	18	08:18 (3)	21:36	22:24
15	08:56		09:44 (2)	07:56		06:41			06:15		08:04 (3)	05:02	04:22
	16:09	20	10:04 (2)	17:19		18:24			20:32	9	08:13 (3)	21:38	22:25
16	08:55		09:43 (2)	07:53		06:39			06:13			05:00	04:21
	16:11	22	10:05 (2)	17:22		18:26			20:34			21:40	22:25
17	08:53		09:43 (2)	07:51		06:36			06:10			04:58	04:21
	16:13	23	10:06 (2)	17:24		18:28			20:37			21:42	22:26
18	08:52		09:43 (2)	07:48		06:33			06:07			04:56	04:21
	16:15	24	10:07 (2)	17:27		18:30			20:39			21:44	22:27
19	08:50		09:43 (2)	07:46		06:30			06:05			04:54	04:21
	16:17	25	10:08 (2)	17:29		18:33			20:41			21:46	22:27
20	08:49		09:42 (2)	07:43		06:28			06:02			04:52	04:21
	16:19	26	10:08 (2)	17:31		18:35			20:43			21:48	22:27
21	08:47		09:42 (2)	07:41		06:25		07:10 (3)	05:59			04:50	04:21
	16:21	27	10:09 (2)	17:34		18:37	15	07:25 (3)	20:45			21:50	22:28
22	08:46		09:42 (2)	07:38		06:22		07:06 (3)	05:57			04:48	04:21
	16:23	28	10:10 (2)	17:36		18:39	22	07:28 (3)	20:48			21:52	22:28
23	08:44		09:42 (2)	07:35		06:19		07:04 (3)	05:54			04:47	04:22
	16:26	28	10:10 (2)	17:38		18:42	25	07:29 (3)	20:50			21:53	22:28
24	08:42		09:42 (2)	07:33		06:16		07:01 (3)	05:52			04:45	04:22
	16:28	28	10:10 (2)	17:41		18:44	30	07:31 (3)	20:52			21:55	22:28
25	08:41		09:43 (2)	07:30		06:14		07:00 (3)	05:49			04:43	04:22
	16:30	28	10:11 (2)	17:43		18:46	32	07:32 (3)	20:54			21:57	22:28
26	08:39		09:43 (2)	07:28		06:11		06:59 (3)	05:46			04:42	04:23
	16:32	28	10:11 (2)	17:45		18:48	34	07:33 (3)	20:57			21:59	22:28
27	08:37		09:43 (2)	07:25	07:57 (5)	06:08		06:38 (4)	05:44			04:40	04:23
	16:35	29	10:12 (2)	17:48	3	08:00 (5)	18:50	45	07:33 (3)	20:59			22:01	22:28
28	08:35		09:44 (2)	07:22	07:52 (5)	06:05		06:35 (4)	05:41			04:39	04:24
	16:37	28	10:12 (2)	17:50	12	08:04 (5)	18:53	52	07:34 (3)	21:01			22:02	22:27
29	08:33		09:44 (2)				07:02		07:32 (4)	05:39			04:37	04:25
	16:39	27	10:11 (2)				19:55	58	08:34 (3)	21:03			22:04	22:27
30	08:31		09:44 (2)				07:00		07:31 (4)	05:36			04:36	04:25
	16:42	27	10:11 (2)				19:57	61	08:35 (3)	21:05			22:06	22:27
31	08:29		09:45 (2)				06:57		07:30 (4)				04:34	
	16:44	26	10:11 (2)				19:59	63	08:34 (3)				22:07	
Potential sun hours	227		262			365			429			515	539
Total, worst case		516		124			717			741			
Sun reduction		0.13		0.22			0.37			0.46			
Oper. time red.		0.93		0.93			0.93			0.93			
Wind dir. red.		0.63		0.62			0.62			0.64			
Total reduction		0.08		0.13			0.21			0.27			
Total, real		39		16			150			202			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AD - Drupas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July		August			September			October			November			December		
1	04:26		05:15			06:21		07:30 (4)	07:25		08:26 (5)	07:34			08:39		09:29 (2)
	22:26		21:42			20:24	43	08:24 (3)	19:00	16	08:42 (5)	16:38			15:44	12	09:41 (2)
2	04:27		05:17			06:23		07:28 (4)	07:27		08:24 (5)	07:36			08:41		09:31 (2)
	22:26		21:39			20:21	49	08:25 (3)	18:57	19	08:43 (5)	16:36			15:42	9	09:40 (2)
3	04:28		05:19			06:25		07:26 (4)	07:29		08:23 (5)	07:38			08:43		09:34 (2)
	22:25		21:37			20:18	54	08:26 (3)	18:54	22	08:45 (5)	16:34			15:41	3	09:37 (2)
4	04:29		05:22			06:27		07:25 (4)	07:31		08:22 (5)	07:41			08:44		
	22:24		21:35			20:15	58	08:26 (3)	18:51	23	08:45 (5)	16:31			15:41		
5	04:30		05:24			06:30		07:23 (4)	07:33		08:21 (5)	07:43		09:24 (2)	08:46		
	22:24		21:33			20:13	62	08:27 (3)	18:49	24	08:45 (5)	16:29	10	09:34 (2)	15:40		
6	04:31		05:26			06:32		07:23 (4)	07:35		08:20 (5)	07:45		09:21 (2)	08:48		
	22:23		21:30			20:10	62	08:27 (3)	18:46	24	08:44 (5)	16:27	15	09:36 (2)	15:39		
7	04:32		05:28			06:34		07:22 (4)	07:38		08:21 (5)	07:48		09:20 (2)	08:49		
	22:22		21:28			20:07	64	08:27 (3)	18:43	24	08:45 (5)	16:25	18	09:38 (2)	15:38		
8	04:34		05:30			06:36		07:21 (4)	07:40		08:20 (5)	07:50		09:19 (2)	08:51		
	22:21		21:26			20:04	66	08:27 (3)	18:40	24	08:44 (5)	16:22	21	09:40 (2)	15:38		
9	04:35		05:32			06:38		07:21 (4)	07:42		08:20 (5)	07:52		09:17 (2)	08:52		
	22:20		21:23			20:01	66	08:27 (3)	18:38	23	08:43 (5)	16:20	23	09:40 (2)	15:37		
10	04:36		05:34			06:40		07:21 (4)	07:44		08:20 (5)	07:55		09:17 (2)	08:54		
	22:19		21:21			19:59	66	08:27 (3)	18:35	22	08:42 (5)	16:18	25	09:42 (2)	15:37		
11	04:38		05:36			06:42		07:21 (4)	07:46		08:22 (5)	07:57		09:16 (2)	08:55		
	22:18		21:18			19:56	64	08:26 (3)	18:32	20	08:42 (5)	16:16	26	09:42 (2)	15:36		
12	04:39		05:38			06:44		07:21 (4)	07:49		08:22 (5)	07:59		09:16 (2)	08:56		
	22:17		21:16			19:53	64	08:26 (3)	18:29	18	08:40 (5)	16:14	27	09:43 (2)	15:36		
13	04:41		05:41			06:47		07:22 (4)	07:51		08:23 (5)	08:01		09:16 (2)	08:58		
	22:15		21:14			19:50	61	08:25 (3)	18:27	15	08:38 (5)	16:12	27	09:43 (2)	15:36		
14	04:42		05:43			06:49		07:22 (4)	07:53		08:26 (5)	08:04		09:16 (2)	08:59		
	22:14		21:11			19:47	58	08:24 (3)	18:24	10	08:36 (5)	16:10	28	09:44 (2)	15:35		
15	04:44		05:45			06:51		07:24 (4)	07:55			08:06		09:16 (2)	09:00		
	22:13		21:09			19:45	53	08:23 (3)	18:21			16:08	28	09:44 (2)	15:35		
16	04:45		05:47			06:53		07:26 (4)	07:57			08:08		09:16 (2)	09:01		
	22:11		21:06			19:42	46	08:22 (3)	18:19			16:06	28	09:44 (2)	15:35		
17	04:47		05:49			06:55		07:47 (3)	08:00			08:10		09:17 (2)	09:02		
	22:10		21:03			19:39	35	08:22 (3)	18:16			16:04	28	09:45 (2)	15:35		
18	04:49		05:51			06:57		07:48 (3)	08:02			08:13		09:16 (2)	09:03		
	22:08		21:01			19:36	32	08:20 (3)	18:13			16:02	28	09:44 (2)	15:35		
19	04:50		05:53			06:59		07:49 (3)	08:04			08:15		09:17 (2)	09:03		
	22:06		20:58			19:33	30	08:19 (3)	18:11			16:01	28	09:45 (2)	15:36		
20	04:52		05:56			07:01		07:50 (3)	08:06			08:17		09:17 (2)	09:04		
	22:05		20:56			19:31	26	08:16 (3)	18:08			15:59	28	09:45 (2)	15:36		
21	04:54		05:58			07:03		07:51 (3)	08:09			08:19		09:18 (2)	09:05		
	22:03		20:53			19:28	23	08:14 (3)	18:06			15:57	27	09:45 (2)	15:36		
22	04:56		06:00			07:06		07:54 (3)	08:11			08:21		09:19 (2)	09:05		
	22:01		20:51			19:25	17	08:11 (3)	18:03			15:56	25	09:44 (2)	15:37		
23	04:58		06:02			07:08		07:58 (3)	08:13			08:23		09:20 (2)	09:06		
	22:00		20:48			19:22	7	08:05 (3)	18:00			15:54	25	09:45 (2)	15:37		
24	05:00		06:04			07:10			08:15			08:25		09:20 (2)	09:06		
	21:58		20:45			19:19			17:58			15:53	24	09:44 (2)	15:38		
25	05:01		06:06			07:12			07:18			08:27		09:21 (2)	09:07		
	21:56		20:43			19:16			16:55			15:51	23	09:44 (2)	15:39		
26	05:03		06:08			07:14			07:20			08:30		09:22 (2)	09:07		
	21:54		20:40			19:14			16:53			15:50	22	09:44 (2)	15:39		
27	05:05		06:10			07:16			07:22			08:32		09:23 (2)	09:07		
	21:52		20:37			19:11			16:50			15:48	20	09:43 (2)	15:40		
28	05:07		06:13		08:05 (3)	07:18			07:25			08:33		09:24 (2)	09:07		
	21:50		20:34	11	08:16 (3)	19:08			16:48			15:47	19	09:43 (2)	15:41		
29	05:09		06:15		08:01 (3)	07:20			07:27			08:35		09:25 (2)	09:07		
	21:48		20:32	18	08:19 (3)	19:05			16:45			15:46	17	09:42 (2)	15:42		
30	05:11		06:17		07:58 (3)	07:23		08:29 (5)	07:29			08:37		09:27 (2)	09:07		
	21:46		20:29	23	08:21 (3)	19:02	11	08:40 (5)	16:43			15:45	15	09:42 (2)	15:43		
31	05:13		06:19		07:33 (4)				07:31						09:07		
	21:44		20:26	35	08:23 (3)				16:41						15:44		
Potential sun hours	538		474			386			321			241			207		
Total, worst case				87			1117			284			605			24	
Sun reduction				0.55			0.43			0.31			0.15			0.13	
Oper. time red.				0.93			0.93			0.93			0.93			0.93	
Wind dir. red.				0.63			0.64			0.58			0.63			0.63	
Total reduction				0.32			0.25			0.17			0.09			0.07	
Total, real				28			283			47			54			2	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AE - Dundagas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March		April	May	June	July	August	September		October		November	December
1	09:07	08:27	07:20		06:54	05:34	04:33	04:26	05:15	06:21		07:25		08:14 (3)	07:34	08:39
	15:46	16:46	17:52		20:01	21:08	22:09	22:26	21:42	20:24		19:00	28	08:42 (3)	16:38	15:44
2	09:06	08:25	07:17		06:51	05:32	04:32	04:27	05:17	06:23		07:27		08:14 (3)	07:36	08:41
	15:47	16:49	17:54		20:04	21:10	22:10	22:26	21:39	20:21		18:57	28	08:42 (3)	16:36	15:42
3	09:06	08:23	07:14		06:48	05:29	04:31	04:28	05:19	06:25		07:29		08:14 (3)	07:38	08:43
	15:48	16:51	17:57		20:06	21:12	22:12	22:25	21:37	20:18		18:54	28	08:42 (3)	16:34	15:41
4	09:06	08:21	07:12		07:45 (3)	06:46	05:27	04:30	04:29	05:22	06:28	07:31		08:14 (3)	07:41	08:45
	15:50	16:53	17:59	13	07:58 (3)	20:08	21:14	22:13	22:25	21:35	20:15	18:51	27	08:41 (3)	16:31	15:41
5	09:05	08:19	07:09		07:42 (3)	06:43	05:24	04:29	04:30	05:24	06:30	07:33		08:14 (3)	07:43	08:46
	15:51	16:56	18:01	18	08:00 (3)	20:10	21:16	22:15	22:24	21:33	20:13	18:49	26	08:40 (3)	16:29	15:40
6	09:04	08:17	07:06		07:40 (3)	06:40	05:22	04:28	04:31	05:26	06:32	07:36		08:14 (3)	07:45	08:48
	15:53	16:58	18:04	21	08:01 (3)	20:12	21:19	22:16	22:23	21:30	20:10	18:46	25	08:39 (3)	16:27	15:39
7	09:04	08:14	07:04		07:39 (3)	06:37	05:20	04:27	04:32	05:28	06:34	07:38		08:16 (3)	07:48	08:49
	15:54	17:00	18:06	23	08:02 (3)	20:15	21:21	22:17	22:22	21:28	20:07	18:43	22	08:38 (3)	16:25	15:38
8	09:03	08:12	07:01		07:37 (3)	06:35	05:17	04:26	04:34	05:30	06:36	07:40		08:17 (3)	07:50	08:51
	15:56	17:03	18:08	25	08:02 (3)	20:17	21:23	22:18	22:21	21:26	20:04	18:40	19	08:36 (3)	16:22	15:38
9	09:02	08:10	06:58		07:37 (3)	06:32	05:15	04:25	04:35	05:32	06:38	07:42		08:18 (3)	07:52	08:52
	15:58	17:05	18:10	27	08:04 (3)	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16	08:34 (3)	16:20	15:37
10	09:01	08:08	06:55		07:36 (3)	06:29	05:13	04:24	04:36	05:34	06:40	07:44		08:21 (3)	07:55	08:54
	15:59	17:08	18:13	28	08:04 (3)	20:21	21:27	22:21	22:19	21:21	19:59	18:35	9	08:30 (3)	16:18	15:37
11	09:00	08:05	06:53		07:36 (3)	06:26	05:11	04:24	04:38	05:36	06:42	07:46			07:57	08:55
	16:01	17:10	18:15	28	08:04 (3)	20:23	21:29	22:22	22:18	21:19	19:56	18:32			16:16	15:36
12	08:59	08:03	06:50		07:35 (3)	06:24	05:08	04:23	04:39	05:38	06:44	07:49			07:59	08:56
	16:03	17:12	18:17	28	08:03 (3)	20:26	21:31	22:22	22:17	21:16	19:53	18:29			16:14	15:36
13	08:58	08:01	06:47		07:35 (3)	06:21	05:06	04:23	04:41	05:41	06:47	07:51			08:01	08:58
	16:05	17:15	18:19	28	08:03 (3)	20:28	21:34	22:23	22:15	21:14	19:50	18:27			16:12	15:36
14	08:57	07:58	06:44		07:36 (3)	06:18	05:04	04:22	04:42	05:43	06:49	07:53			08:04	08:59
	16:07	17:17	18:22	27	08:03 (3)	20:30	21:36	22:24	22:14	21:11	19:47	18:24			16:10	15:35
15	08:56	07:56	06:42		07:36 (3)	06:15	05:02	04:22	04:44	05:45	06:51	07:55			08:06	09:00
	16:09	17:19	18:24	26	08:02 (3)	20:32	21:38	22:25	22:13	21:09	19:45	18:21			16:08	15:35
16	08:55	07:53	06:39		07:36 (3)	06:13	05:00	04:21	04:45	05:47	06:53	07:57			08:08	09:01
	16:11	17:22	18:26	25	08:01 (3)	20:34	21:40	22:25	22:11	21:06	19:42	18:19			16:06	15:35
17	08:53	07:51	06:36		07:36 (3)	06:10	04:58	04:21	04:47	05:49	06:55	08:00			08:10	09:02
	16:13	17:24	18:28	23	07:59 (3)	20:37	21:42	22:26	22:10	21:04	19:39	18:16			16:04	15:35
18	08:52	07:48	06:33		07:37 (3)	06:07	04:56	04:21	04:49	05:51	06:57	08:02			08:13	09:03
	16:15	17:27	18:31	21	07:58 (3)	20:39	21:44	22:27	22:08	21:01	19:36	18:13			16:02	15:35
19	08:50	07:46	06:30		07:38 (3)	06:05	04:54	04:21	04:50	05:53	06:59	08:04			08:15	09:03
	16:17	17:29	18:33	17	07:55 (3)	20:41	21:46	22:27	22:06	20:58	19:33	18:11			16:01	15:36
20	08:49	07:43	06:28		07:41 (3)	06:02	04:52	04:21	04:52	05:56	07:01	08:06			08:17	09:04
	16:19	17:31	18:35	12	07:53 (3)	20:43	21:48	22:27	22:05	20:56	19:31	18:08			15:59	15:36
21	08:47	07:41	06:25			05:59	04:50	04:21	04:54	05:58	07:03	08:09			08:19	09:05
	16:21	17:34	18:37			20:46	21:50	22:28	22:03	20:53	19:28	18:06			15:57	15:36
22	08:46	07:38	06:22			05:57	04:48	04:21	04:56	06:00	07:06	08:11			08:21	09:05
	16:23	17:36	18:39			20:48	21:52	22:28	22:01	20:51	19:25	18:03			15:56	15:37
23	08:44	07:36	06:19			05:54	04:47	04:22	04:58	06:02	07:08	08:26 (3)			08:23	09:06
	16:26	17:38	18:42			20:50	21:54	22:28	22:00	20:48	19:22	10	08:36 (3)		15:54	15:37
24	08:42	07:33	06:16			05:52	04:45	04:22	05:00	06:04	07:10		08:23 (3)		08:25	09:06
	16:28	17:41	18:44			20:52	21:55	22:28	21:58	20:45	19:19	15	08:38 (3)		15:53	15:38
25	08:41	07:30	06:14			05:49	04:43	04:22	05:01	06:06	07:12		08:20 (3)		08:28	09:07
	16:30	17:43	18:46			20:54	21:57	22:28	21:56	20:43	19:16	20	08:40 (3)		15:51	15:39
26	08:39	07:28	06:11			05:46	04:42	04:23	05:03	06:08	07:14		08:19 (3)		08:30	09:07
	16:32	17:45	18:48			20:57	21:59	22:28	21:54	20:40	19:14	22	08:41 (3)		15:50	15:39
27	08:37	07:25	06:08			05:44	04:40	04:23	05:05	06:10	07:16		08:18 (3)		08:32	09:07
	16:35	17:48	18:50			20:59	22:01	22:28	21:52	20:37	19:11	24	08:42 (3)		15:48	15:40
28	08:35	07:22	06:05			05:41	04:39	04:24	05:07	06:13	07:18		08:17 (3)		08:34	09:07
	16:37	17:50	18:53			21:01	22:02	22:28	21:50	20:35	19:08	26	08:43 (3)		15:47	15:41
29	08:33		07:02			05:39	04:37	04:25	05:09	06:15	07:20		08:16 (3)		08:35	09:07
	16:39		19:55			21:03	22:04	22:27	21:48	20:32	19:05	27	08:43 (3)		15:46	15:42
30	08:31		07:00			05:36	04:36	04:25	05:11	06:17	07:23		08:15 (3)		08:37	09:07
	16:42		19:57			21:05	22:06	22:27	21:46	20:29	19:02	28	08:43 (3)		15:45	15:43
31	08:29		06:57				04:34		05:13	06:19			07:32			09:07
	16:44		19:59				22:07		21:44	20:26			16:41			15:44
Potential sun hours	227	262	365		429	515	539	538	474	386		321		241	207	
Total, worst case				390							172		228			
Sun reduction				0.37							0.43		0.31			
Oper. time red.				0.93							0.93		0.93			
Wind dir. red.				0.59							0.59		0.59			
Total reduction				0.20							0.24		0.17			
Total, real				79							41		38			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AF - Duneni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:49	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AG - Eglites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June		July		August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33		04:26	21:28 (8)	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08		22:26	12 21:40 (8)	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32		04:27	21:29 (8)	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10		22:25	10 21:39 (8)	21:39	20:20	18:56	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:30		04:28	21:31 (8)	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11		22:25	8 21:39 (8)	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29		04:29	21:33 (8)	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13		22:24	4 21:37 (8)	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28		04:30		05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14		22:23		21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:22	04:27		04:31		05:25	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15		22:22		21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26		04:32		05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17		22:21		21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26		04:33		05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18		22:20		21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25		04:35		05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	7	21:26 (8) 22:19		21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24		21:33 (8) 04:36		05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	10	21:25 (8) 22:18		21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23		21:35 (8) 04:37		05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:14	20:23	21:29	22:21	11	21:24 (8) 22:17		21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23		21:35 (8) 04:39		05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	13	21:24 (8) 22:16		21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22		21:37 (8) 04:40		05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	14	21:23 (8) 22:15		21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22		21:37 (8) 04:42		05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	15	21:23 (8) 22:13		21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22		21:38 (8) 04:44		05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	15	21:23 (8) 22:12		21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21		21:38 (8) 04:45		05:47	06:52	07:57	08:08	09:00
	16:11	17:21	18:26	20:34	21:39	22:25	16	21:23 (8) 22:11		21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21		21:39 (8) 04:47		05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	17	21:23 (8) 22:09		21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21		21:40 (8) 04:48		05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	17	21:23 (8) 22:07		21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21		21:40 (8) 04:50		05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	17	21:23 (8) 22:06		20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21		21:40 (8) 04:52		05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	18	21:23 (8) 22:04		20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21		21:41 (8) 04:54		05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	18	21:23 (8) 22:03		20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21		21:41 (8) 04:56		05:59	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	18	21:23 (8) 22:01		20:50	19:24	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:47	04:21		21:41 (8) 04:57		06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	17	21:24 (8) 21:59		20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22		21:41 (8) 04:59		06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	17	21:24 (8) 21:57		20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22		21:41 (8) 05:01		06:06	07:11	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	17	21:24 (8) 21:55		20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23		21:41 (8) 05:03		06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	16	21:25 (8) 21:53		20:39	19:13	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23		21:41 (8) 05:05		06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	16	21:25 (8) 21:51		20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24		21:41 (8) 05:07		06:12	07:18	07:24	08:33	09:07
	16:37	17:49	18:52	21:01	22:02	22:27	15	21:26 (8) 21:49		20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24		21:41 (8) 05:09		06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	14	21:27 (8) 21:47		20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25		21:41 (8) 05:11		06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	13	21:27 (8) 21:45		20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34			21:40 (8) 05:13		06:19		07:31		09:06
	16:44		19:59		22:07			21:43		20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539		538		474	386	321	241	207
Total, worst case							331		34					
Sun reduction							0.53		0.57					
Oper. time red.							0.93		0.93					
Wind dir. red.							0.64		0.64					
Total reduction							0.31		0.33					
Total, real							104		11					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AH - Einbluti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AI - Ergli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		09:53 (3)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:36 (3)
	15:46	16	10:09 (3)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	22	09:58 (3)
2	09:06		09:52 (3)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:36 (3)
	15:47	18	10:10 (3)	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36			15:42	22	09:58 (3)
3	09:06		09:52 (3)	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		09:37 (3)
	15:48	18	10:10 (3)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	21	09:58 (3)
4	09:06		09:53 (3)	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		09:38 (3)
	15:50	19	10:12 (3)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	21	09:59 (3)
5	09:05		09:53 (3)	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43			08:46		09:38 (3)
	15:51	19	10:12 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29			15:40	21	09:59 (3)
6	09:04		09:53 (3)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		09:39 (3)
	15:53	20	10:13 (3)	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	20	09:59 (3)
7	09:04		09:53 (3)	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48			08:49		09:39 (3)
	15:54	21	10:14 (3)	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	19	09:58 (3)
8	09:03		09:53 (3)	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50			08:51		09:40 (3)
	15:56	22	10:15 (3)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	19	09:59 (3)
9	09:02		09:53 (3)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		09:41 (3)
	15:58	21	10:14 (3)	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20			15:37	18	09:59 (3)
10	09:01		09:53 (3)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55			08:54		09:42 (3)
	15:59	22	10:15 (3)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	17	09:59 (3)
11	09:00		09:54 (3)	08:05	06:53	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:57			08:55		09:43 (3)
	16:01	22	10:16 (3)	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16			15:36	16	09:59 (3)
12	08:59		09:53 (3)	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59			08:56		09:43 (3)
	16:03	23	10:16 (3)	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14			15:36	16	09:59 (3)
13	08:58		09:54 (3)	08:01	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		09:45 (3)
	16:05	23	10:17 (3)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12			15:35	15	10:00 (3)
14	08:57		09:54 (3)	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04			08:59		09:45 (3)
	16:07	23	10:17 (3)	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	15	10:00 (3)
15	08:56		09:55 (3)	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06		09:40 (3)	09:00		09:46 (3)
	16:09	23	10:18 (3)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	6	09:46 (3)	15:35	14	10:00 (3)
16	08:55		09:55 (3)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:37 (3)	09:01		09:47 (3)
	16:11	23	10:18 (3)	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	11	09:48 (3)	15:35	13	10:00 (3)
17	08:53		09:56 (3)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		09:36 (3)	09:02		09:47 (3)
	16:13	23	10:19 (3)	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	14	09:50 (3)	15:35	13	10:00 (3)
18	08:52		09:56 (3)	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13		09:34 (3)	09:03		09:48 (3)
	16:15	23	10:19 (3)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	17	09:51 (3)	15:35	12	10:00 (3)
19	08:50		09:56 (3)	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:34 (3)	09:03		09:49 (3)
	16:17	23	10:19 (3)	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	19	09:53 (3)	15:35	12	10:01 (3)
20	08:49		09:57 (3)	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:33 (3)	09:04		09:49 (3)
	16:19	22	10:19 (3)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	20	09:53 (3)	15:36	11	10:00 (3)
21	08:47		09:58 (3)	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		09:34 (3)	09:05		09:50 (3)
	16:21	20	10:18 (3)	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	20	09:54 (3)	15:36	11	10:01 (3)
22	08:46		09:58 (3)	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21		09:33 (3)	09:05		09:50 (3)
	16:23	20	10:18 (3)	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	22	09:55 (3)	15:37	11	10:01 (3)
23	08:44		09:59 (3)	07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23		09:34 (3)	09:06		09:51 (3)
	16:26	19	10:18 (3)	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	22	09:56 (3)	15:37	11	10:02 (3)
24	08:42		10:00 (3)	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:26		09:33 (3)	09:06		09:51 (3)
	16:28	17	10:17 (3)	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	23	09:56 (3)	15:38	12	10:03 (3)
25	08:41		10:02 (3)	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28		09:33 (3)	09:07		09:51 (3)
	16:30	14	10:16 (3)	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	23	09:56 (3)	15:38	12	10:03 (3)
26	08:39		10:04 (3)	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:34 (3)	09:07		09:51 (3)
	16:32	11	10:15 (3)	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	23	09:57 (3)	15:39	13	10:04 (3)
27	08:37		10:07 (3)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:34 (3)	09:07		09:51 (3)
	16:35	5	10:12 (3)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	23	09:57 (3)	15:40	13	10:04 (3)
28	08:35			07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34		09:34 (3)	09:07		09:52 (3)
	16:37			17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	23	09:57 (3)	15:41	13	10:05 (3)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36		09:34 (3)	09:07		09:52 (3)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	23	09:57 (3)	15:42	14	10:06 (3)
30	08:31				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		09:35 (3)	09:07		09:52 (3)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	23	09:58 (3)	15:43	15	10:07 (3)
31	08:29				06:57		04:34		05:13	06:19		07:32				09:07		09:52 (3)
	16:44				19:59		22:07		21:44	20:26		16:41				15:44	16	10:08 (3)
Potential sun hours	227			262	365	429	515	539	538	475	386	321	241			207		
Total, worst case		530												312			478	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.62												0.62			0.62	
Total reduction		0.08												0.09			0.07	
Total, real		40												28			35	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AJ - Ilgupils

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AK - Indrani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AL - Induli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:35	15:42
3	09:05	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:11	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:20	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:07	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:42	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:52	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:25	04:33	05:30	06:36	07:39	07:49	08:50
	15:56	17:02	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:18	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:05	08:59
	16:08	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:52	07:57	08:08	09:00
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:28	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:10	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:27	22:01	20:50	19:24	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:42	18:45	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:49	18:52	21:00	22:02	22:27	21:49	20:34	19:08	16:47	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:45	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:06
	16:41		19:56	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AM - Jaunarkadijas A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AN - Jaunarkadijas B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AO - Jaunarkadijas C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AP - Jaunauzinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:41	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AQ - Jaundalderi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AR - Jaunjemekli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:04	04:54	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AS - Jaunjeceni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March	April	May	June	July	August	September	October			November			December		
1	09:07		10:11 (4)	08:27		09:21 (1)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25			07:34		08:57 (1)	08:39		09:53 (4)
	15:46	80	12:42 (3)	16:46	53	10:44 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00			16:38	18	09:15 (1)	15:43	70	12:26 (3)
2	09:06		10:10 (4)	08:25		09:21 (1)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27			07:36		08:55 (1)	08:41		09:53 (4)
	15:47	80	12:42 (3)	16:48	51	10:43 (4)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57			16:36	21	09:16 (1)	15:42	74	12:27 (3)
3	09:06		10:10 (4)	08:23		09:22 (1)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29			07:38		08:54 (1)	08:43		09:54 (4)
	15:48	79	12:42 (3)	16:51	46	10:41 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54			16:33	24	09:18 (1)	15:41	75	12:27 (3)
4	09:06		10:10 (4)	08:21		09:22 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31			07:41		08:53 (1)	08:44		09:55 (4)
	15:50	79	12:42 (3)	16:53	41	10:39 (4)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51			16:31	25	09:18 (1)	15:40	77	12:28 (3)
5	09:05		10:11 (4)	08:19		09:22 (1)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33			07:43		08:53 (1)	08:46		09:56 (4)
	15:51	79	12:43 (3)	16:56	32	10:34 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48			16:29	26	09:19 (1)	15:40	79	12:29 (3)
6	09:04		10:11 (4)	08:17		09:23 (1)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35			07:45		08:52 (1)	08:48		09:57 (4)
	15:53	79	12:43 (3)	16:58	27	09:50 (1)	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46			16:27	34	10:05 (4)	15:39	79	12:29 (3)
7	09:04		10:11 (4)	08:14		09:24 (1)	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38			07:48		08:52 (1)	08:49		09:57 (4)
	15:54	78	12:44 (3)	17:00	24	09:48 (1)	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43			16:24	42	10:09 (4)	15:38	79	12:29 (3)
8	09:03		10:10 (4)	08:12		09:25 (1)	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40			07:50		08:52 (1)	08:51		09:58 (4)
	15:56	77	12:43 (3)	17:03	23	09:48 (1)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40			16:22	48	10:12 (4)	15:37	79	12:30 (3)
9	09:02		10:10 (4)	08:10		09:26 (1)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42			07:52		08:52 (1)	08:52		09:59 (4)
	15:58	75	12:43 (3)	17:05	20	09:46 (1)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37			16:20	51	10:13 (4)	15:37	80	12:31 (3)
10	09:01		10:10 (4)	08:08		09:28 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44			07:55		08:52 (1)	08:54		10:00 (4)
	15:59	73	12:43 (3)	17:07	18	09:46 (1)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35			16:18	54	10:15 (4)	15:36	79	12:31 (3)
11	09:00		10:11 (4)	08:05		09:29 (1)	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46			07:57		08:52 (1)	08:55		10:01 (4)
	16:01	70	12:44 (3)	17:10	14	09:43 (1)	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32			16:16	56	10:16 (4)	15:36	81	12:32 (3)
12	08:59		10:10 (4)	08:03		09:34 (1)	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49			07:59		08:52 (1)	08:56		10:01 (4)
	16:03	62	12:43 (3)	17:12	6	09:40 (1)	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29			16:14	57	10:17 (4)	15:36	80	12:32 (3)
13	08:58		10:11 (4)	08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51			08:01		08:52 (1)	08:58		10:02 (4)
	16:05	61	12:43 (3)	17:15			18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27			16:12	58	10:18 (4)	15:35	79	12:32 (3)
14	08:57		10:10 (4)	07:58			06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53			08:04		08:53 (1)	08:59		10:03 (4)
	16:07	61	12:43 (3)	17:17			18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24			16:10	59	10:19 (4)	15:35	80	12:34 (3)
15	08:56		10:11 (4)	07:56			06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55			08:06		08:54 (1)	09:00		10:04 (4)
	16:09	60	12:43 (3)	17:19			18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21			16:08	59	10:20 (4)	15:35	79	12:34 (3)
16	08:55		10:11 (4)	07:53			06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57			08:08		08:54 (1)	09:01		10:05 (4)
	16:11	58	12:42 (3)	17:22			18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19			16:06	59	10:20 (4)	15:35	78	12:34 (3)
17	08:53		10:11 (4)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00			08:10		08:56 (1)	09:02		10:06 (4)
	16:13	57	12:41 (3)	17:24			18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16			16:04	58	10:21 (4)	15:35	77	12:35 (3)
18	08:52		10:11 (4)	07:48			06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02			08:13		08:56 (1)	09:03		10:06 (4)
	16:15	56	12:41 (3)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13			16:02	57	10:21 (4)	15:35	77	12:35 (3)
19	08:50		09:28 (1)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04			08:15		08:58 (1)	09:03		10:06 (4)
	16:17	61	12:40 (3)	17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11			16:01	56	10:22 (4)	15:35	77	12:35 (3)
20	08:49		09:26 (1)	07:43			06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06			08:17		08:59 (1)	09:04		10:07 (4)
	16:19	61	12:38 (3)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08			15:59	53	10:22 (4)	15:36	76	12:36 (3)
21	08:47		09:25 (1)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09			08:19		09:01 (1)	09:05		10:08 (4)
	16:21	58	12:35 (3)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05			15:57	58	12:11 (3)	15:36	76	12:37 (3)
22	08:46		09:24 (1)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11			08:21		09:02 (1)	09:05		10:08 (4)
	16:23	53	10:47 (4)	17:36			18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03			15:56	61	12:14 (3)	15:37	76	12:37 (3)
23	08:44		09:23 (1)	07:35			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13			08:23		09:05 (1)	09:06		10:09 (4)
	16:25	56	10:47 (4)	17:38			18:41	20:50	21:53	22:28	22:00	20:48	19:22	18:00			15:54	61	12:17 (3)	15:37	76	12:38 (3)
24	08:42		09:22 (1)	07:33			06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15			08:25		09:49 (4)	09:06		10:09 (4)
	16:28	57	10:47 (4)	17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58			15:52	55	12:18 (3)	15:38	77	12:38 (3)
25	08:41		09:22 (1)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18			08:27		09:49 (4)	09:07		10:09 (4)
	16:30	58	10:47 (4)	17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55			15:51	57	12:19 (3)	15:38	77	12:38 (3)
26	08:39		09:22 (1)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20			08:30		09:50 (4)	09:07		10:10 (4)
	16:32	58	10:47 (4)	17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53			15:50	58	12:21 (3)	15:39	77	12:39 (3)
27	08:37		09:21 (1)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22			08:32		09:50 (4)	09:07		10:10 (4)
	16:34	59	10:47 (4)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50			15:48	60	12:22 (3)	15:40	76	12:39 (3)
28	08:35		09:21 (1)	07:22			06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25			08:33		09:50 (4)	09:07		10:10 (4)
	16:37	59	10:47 (4)	17:50			18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48			15:47	61	12:23 (3)	15:41	78	12:40 (3)
29	08:33		09:20 (1)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27			08:35		09:51 (4)	09:07		10:10 (4)
	16:39	58	10:46 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45			15:46	62	12:24 (3)	15:42	78	12:40 (3)
30	08:31		09:21 (1)				06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29		09:02 (1)	08:37		09:52 (4)	09:07		10:11 (4)
	16:41	56	10:45 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	8	09:10 (1)	15:44	62	12:25 (3)	15:43	78	12:41 (3)
31	08:29		09:21 (1)				06:57		04:34		05:13	06:19		07:31		08:58 (1)				09:07		10:10 (4)
	16:44	56	10:45 (4)				19:59		22:07		21:44	20:26		16:40	15	09:13 (1)				15:44	80	12:41 (3)
Potential sun hours	227			262			365	429	515	539	538	474	386	321			241			207		
Total, worst case		2014			355										23			1510			2404	
Sun reduction		0.13			0.22										0.31			0.15			0.13	
Oper. time red.		0.93			0.93										0.93			0.93			0.93	
Wind dir. red.		0.63			0.63										0.64			0.63			0.63	
Total reduction		0.08			0.13										0.18			0.09			0.07	
Total, real		154			46										4			135			180	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AT - Jaunkastanas
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May			June		
1	09:07			08:27		09:35 (2)	07:20			06:54			05:34		06:03 (1)	04:33		06:48 (3)
	15:46			16:46	35	10:10 (2)	17:52			20:01			21:08	61	07:26 (3)	22:09	29	07:17 (3)
2	09:06			08:25		09:34 (2)	07:17			06:51			05:31		06:01 (1)	04:32		06:49 (3)
	15:47			16:49	36	10:10 (2)	17:54			20:04			21:10	64	07:26 (3)	22:10	27	07:16 (3)
3	09:06			08:23		09:34 (2)	07:14			06:48			05:29		05:59 (1)	04:31		06:50 (3)
	15:48			16:51	36	10:10 (2)	17:57			20:06			21:12	66	07:26 (3)	22:12	25	07:15 (3)
4	09:05			08:21		09:35 (2)	07:12			06:46			05:27		05:59 (1)	04:30		06:50 (3)
	15:50			16:53	36	10:11 (2)	17:59			20:08			21:14	67	07:26 (3)	22:13	24	07:14 (3)
5	09:05			08:19		09:34 (2)	07:09			06:43			05:24		05:59 (1)	04:29		06:51 (3)
	15:51			16:56	36	10:10 (2)	18:01			20:10			21:16	68	07:27 (3)	22:15	22	07:13 (3)
6	09:04			08:17		09:35 (2)	07:06			06:40			05:22		06:00 (1)	04:28		06:52 (3)
	15:53			16:58	36	10:11 (2)	18:04			20:12			21:19	67	07:27 (3)	22:16	20	07:12 (3)
7	09:04			08:14		09:35 (2)	07:04			06:37			05:20		06:00 (1)	04:27		06:54 (3)
	15:54			17:00	35	10:10 (2)	18:06			20:15			21:21	66	07:27 (3)	22:17	18	07:12 (3)
8	09:03			08:12		09:36 (2)	07:01			06:35			05:17		06:01 (1)	04:26		06:55 (3)
	15:56			17:03	34	10:10 (2)	18:08			20:17			21:23	64	07:27 (3)	22:18	16	07:11 (3)
9	09:02			08:10		09:36 (2)	06:58			06:32			05:15		06:02 (1)	04:25		06:56 (3)
	15:58			17:05	34	10:10 (2)	18:10			20:19			21:25	62	07:27 (3)	22:19	13	07:09 (3)
10	09:01			08:08		09:37 (2)	06:55			06:29			05:13		06:03 (1)	04:24		06:58 (3)
	15:59			17:08	33	10:10 (2)	18:13			20:21			21:27	60	07:27 (3)	22:20	10	07:08 (3)
11	09:00			08:05		09:37 (2)	06:53			06:26			05:11		06:06 (1)	04:24		06:59 (3)
	16:01			17:10	31	10:08 (2)	18:15			20:23			21:29	54	07:27 (3)	22:21	7	07:06 (3)
12	08:59			08:03		09:38 (2)	06:50			06:24			05:08		06:37 (3)	04:23		
	16:03			17:12	30	10:08 (2)	18:17			20:26			21:31	50	07:27 (3)	22:22		
13	08:58			08:00		09:39 (2)	06:47		07:19 (5)	06:21			05:06		06:37 (3)	04:23		
	16:05			17:15	28	10:07 (2)	18:19	12	07:31 (5)	20:28			21:34	49	07:26 (3)	22:23		
14	08:57			07:58		09:40 (2)	06:44		07:17 (5)	06:18		06:52 (4)	05:04		06:37 (3)	04:22		
	16:07			17:17	25	10:05 (2)	18:22	17	07:34 (5)	20:30	8	07:00 (4)	21:36	49	07:26 (3)	22:24		
15	08:56			07:56		09:42 (2)	06:41		07:15 (5)	06:15		06:48 (4)	05:02		06:37 (3)	04:22		
	16:09			17:19	22	10:04 (2)	18:24	21	07:36 (5)	20:32	15	07:03 (4)	21:38	48	07:25 (3)	22:25		
16	08:55			07:53		09:44 (2)	06:39		07:13 (5)	06:13		06:46 (4)	05:00		06:37 (3)	04:22		
	16:11			17:22	17	10:01 (2)	18:26	24	07:37 (5)	20:34	19	07:05 (4)	21:40	48	07:25 (3)	22:25		
17	08:53			07:51		09:48 (2)	06:36		07:12 (5)	06:10		06:44 (4)	04:58		06:37 (3)	04:21		
	16:13			17:24	10	09:58 (2)	18:28	25	07:37 (5)	20:37	22	07:06 (4)	21:42	47	07:24 (3)	22:26		
18	08:52			07:48			06:33		07:11 (5)	06:07		06:42 (4)	04:56		06:38 (3)	04:21		
	16:15			17:26			18:30	26	07:37 (5)	20:39	24	07:06 (4)	21:44	47	07:25 (3)	22:26		
19	08:50		09:46 (2)	07:46			06:30		07:10 (5)	06:05		06:42 (4)	04:54		06:38 (3)	04:21		
	16:17	6	09:52 (2)	17:29			18:33	27	07:37 (5)	20:41	25	07:07 (4)	21:46	46	07:24 (3)	22:27		
20	08:49		09:43 (2)	07:43			06:28		07:10 (5)	06:02		06:40 (4)	04:52		06:38 (3)	04:21		
	16:19	12	09:55 (2)	17:31			18:35	28	07:38 (5)	20:43	31	07:11 (3)	21:48	45	07:23 (3)	22:27		
21	08:47		09:41 (2)	07:41			06:25		07:09 (5)	05:59		06:40 (4)	04:50		06:39 (3)	04:21		
	16:21	17	09:58 (2)	17:34			18:37	29	07:38 (5)	20:45	35	07:15 (3)	21:50	44	07:23 (3)	22:28		
22	08:46		09:39 (2)	07:38			06:22		07:09 (5)	05:57		06:39 (4)	04:48		06:40 (3)	04:21		
	16:23	21	10:00 (2)	17:36			18:39	28	07:37 (5)	20:48	38	07:17 (3)	21:52	42	07:22 (3)	22:28		
23	08:44		09:38 (2)	07:35			06:19		07:09 (5)	05:54		06:39 (4)	04:47		06:41 (3)	04:22		
	16:26	23	10:01 (2)	17:38			18:42	27	07:36 (5)	20:50	40	07:19 (3)	21:53	41	07:22 (3)	22:28		
24	08:42		09:38 (2)	07:33			06:16		07:09 (5)	05:52		06:38 (4)	04:45		06:41 (3)	04:22		
	16:28	25	10:03 (2)	17:41			18:44	26	07:35 (5)	20:52	42	07:20 (3)	21:55	40	07:21 (3)	22:28		
25	08:41		09:37 (2)	07:30			06:14		07:09 (5)	05:49		06:39 (4)	04:43		06:42 (3)	04:22		
	16:30	27	10:04 (2)	17:43			18:46	25	07:34 (5)	20:54	43	07:22 (3)	21:57	39	07:21 (3)	22:28		
26	08:39		09:36 (2)	07:28			06:11		07:10 (5)	05:46		06:39 (4)	04:42		06:43 (3)	04:23		
	16:32	29	10:05 (2)	17:45			18:48	24	07:34 (5)	20:57	44	07:23 (3)	21:59	38	07:21 (3)	22:28		
27	08:37		09:36 (2)	07:25			06:08		07:11 (5)	05:44		06:12 (1)	04:40		06:43 (3)	04:23		
	16:35	30	10:06 (2)	17:47			18:50	21	07:32 (5)	20:59	45	07:23 (3)	22:01	36	07:19 (3)	22:28		
28	08:35		09:36 (2)	07:22			06:05		07:12 (5)	05:41		06:10 (1)	04:39		06:44 (3)	04:24		
	16:37	31	10:07 (2)	17:50			18:53	17	07:29 (5)	21:01	50	07:24 (3)	22:02	35	07:19 (3)	22:27		
29	08:33		09:35 (2)				07:02		08:14 (5)	05:39		06:08 (1)	04:37		06:45 (3)	04:25		
	16:39	32	10:07 (2)				19:55	12	08:26 (5)	21:03	54	07:25 (3)	22:04	34	07:19 (3)	22:27		
30	08:31		09:35 (2)				07:00			05:36		06:05 (1)	04:36		06:46 (3)	04:25		
	16:42	33	10:08 (2)				19:57			21:05	57	07:25 (3)	22:06	32	07:18 (3)	22:27		
31	08:29		09:35 (2)				06:57						04:34		06:47 (3)			
	16:44	34	10:09 (2)				19:59						22:07	30	07:17 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		320			514			389			592			1539			211	
Sun reduction		0.13			0.22			0.37			0.46			0.58			0.53	
Oper. time red.		0.93			0.93			0.93			0.93			0.93			0.93	
Wind dir. red.		0.63			0.63			0.62			0.64			0.64			0.64	
Total reduction		0.08			0.13			0.21			0.28			0.35			0.32	
Total, real		25			67			82			163			532			67	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AT - Jaunkastanas
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July			August			September			October			November			December	
1	04:26		07:05 (3)	05:15		06:47 (3)	06:21			07:25		08:01 (5)	07:34		09:06 (2)	08:39	
	22:26	4	07:09 (3)	21:42	50	07:37 (3)	20:24			19:00	7	08:08 (5)	16:38	33	09:39 (2)	15:44	
2	04:27		07:03 (3)	05:17		06:15 (1)	06:23			07:27			07:36		09:05 (2)	08:41	
	22:26	9	07:12 (3)	21:39	57	07:37 (3)	20:21			18:57			16:36	34	09:39 (2)	15:42	
3	04:28		07:02 (3)	05:19		06:13 (1)	06:25			07:29			07:38		09:05 (2)	08:43	
	22:25	12	07:14 (3)	21:37	61	07:37 (3)	20:18			18:54			16:34	35	09:40 (2)	15:41	
4	04:29		07:01 (3)	05:22		06:11 (1)	06:27			07:31			07:41		09:04 (2)	08:44	
	22:24	15	07:16 (3)	21:35	63	07:36 (3)	20:15			18:51			16:31	36	09:40 (2)	15:41	
5	04:30		07:00 (3)	05:24		06:10 (1)	06:30			07:33			07:43		09:05 (2)	08:46	
	22:24	17	07:17 (3)	21:33	65	07:36 (3)	20:13			18:49			16:29	35	09:40 (2)	15:40	
6	04:31		06:59 (3)	05:26		06:09 (1)	06:32			07:35			07:45		09:04 (2)	08:48	
	22:23	19	07:18 (3)	21:30	67	07:36 (3)	20:10			18:46			16:27	36	09:40 (2)	15:39	
7	04:32		06:58 (3)	05:28		06:09 (1)	06:34			07:38			07:48		09:04 (2)	08:49	
	22:22	21	07:19 (3)	21:28	67	07:36 (3)	20:07			18:43			16:25	37	09:41 (2)	15:38	
8	04:34		06:57 (3)	05:30		06:08 (1)	06:36			07:40			07:50		09:05 (2)	08:51	
	22:21	23	07:20 (3)	21:26	67	07:36 (3)	20:04			18:40			16:22	36	09:41 (2)	15:38	
9	04:35		06:56 (3)	05:32		06:08 (1)	06:38			07:42			07:52		09:05 (2)	08:52	
	22:20	25	07:21 (3)	21:23	67	07:36 (3)	20:01			18:38			16:20	35	09:40 (2)	15:37	
10	04:36		06:56 (3)	05:34		06:08 (1)	06:40			07:44			07:54		09:06 (2)	08:54	
	22:19	27	07:23 (3)	21:21	66	07:35 (3)	19:59			18:35			16:18	35	09:41 (2)	15:37	
11	04:38		06:56 (3)	05:36		06:10 (1)	06:42			07:46			07:57		09:05 (2)	08:55	
	22:18	28	07:24 (3)	21:18	64	07:35 (3)	19:56			18:32			16:16	35	09:40 (2)	15:36	
12	04:39		06:55 (3)	05:38		06:12 (1)	06:44			07:49			07:59		09:06 (2)	08:56	
	22:16	30	07:25 (3)	21:16	60	07:34 (3)	19:53			18:29			16:14	34	09:40 (2)	15:36	
13	04:41		06:54 (3)	05:41		06:14 (1)	06:46			07:51			08:01		09:06 (2)	08:58	
	22:15	31	07:25 (3)	21:14	56	07:33 (3)	19:50			18:27			16:12	33	09:39 (2)	15:36	
14	04:42		06:54 (3)	05:43		06:16 (1)	06:49		08:05 (5)	07:53			08:04		09:08 (2)	08:59	
	22:14	33	07:27 (3)	21:11	54	07:33 (3)	19:47	11	08:16 (5)	18:24			16:10	31	09:39 (2)	15:35	
15	04:44		06:53 (3)	05:45		06:18 (1)	06:51		08:02 (5)	07:55			08:06		09:09 (2)	09:00	
	22:12	34	07:27 (3)	21:09	49	07:32 (3)	19:45	17	08:19 (5)	18:21			16:08	30	09:39 (2)	15:35	
16	04:45		06:53 (3)	05:47		06:46 (4)	06:53		08:00 (5)	07:57			08:08		09:09 (2)	09:01	
	22:11	36	07:29 (3)	21:06	45	07:31 (3)	19:42	20	08:20 (5)	18:19			16:06	29	09:38 (2)	15:35	
17	04:47		06:52 (3)	05:49		06:46 (4)	06:55		07:59 (5)	08:00			08:10		09:11 (2)	09:02	
	22:10	37	07:29 (3)	21:03	43	07:29 (3)	19:39	23	08:22 (5)	18:16			16:04	27	09:38 (2)	15:35	
18	04:49		06:52 (3)	05:51		06:45 (4)	06:57		07:58 (5)	08:02			08:13		09:11 (2)	09:03	
	22:08	38	07:30 (3)	21:01	43	07:28 (3)	19:36	24	08:22 (5)	18:13			16:02	26	09:37 (2)	15:35	
19	04:50		06:51 (3)	05:53		06:45 (4)	06:59		07:56 (5)	08:04			08:15		09:13 (2)	09:03	
	22:06	39	07:30 (3)	20:58	41	07:26 (3)	19:33	27	08:23 (5)	18:11			16:01	23	09:36 (2)	15:36	
20	04:52		06:51 (3)	05:56		06:45 (4)	07:01		07:55 (5)	08:06			08:17		09:14 (2)	09:04	
	22:05	41	07:32 (3)	20:56	40	07:25 (3)	19:30	28	08:23 (5)	18:08			15:59	21	09:35 (2)	15:36	
21	04:54		06:51 (3)	05:58		06:45 (4)	07:03		07:55 (5)	08:09			08:19		09:17 (2)	09:05	
	22:03	42	07:33 (3)	20:53	37	07:22 (3)	19:28	28	08:23 (5)	18:06			15:57	17	09:34 (2)	15:36	
22	04:56		06:50 (3)	06:00		06:45 (4)	07:05		07:54 (5)	08:11			08:21		09:19 (2)	09:05	
	22:01	43	07:33 (3)	20:50	34	07:19 (3)	19:25	28	08:22 (5)	18:03			15:56	13	09:32 (2)	15:37	
23	04:58		06:49 (3)	06:02		06:45 (4)	07:08		07:54 (5)	08:13			08:23		09:22 (2)	09:06	
	21:59	45	07:34 (3)	20:48	30	07:15 (3)	19:22	28	08:22 (5)	18:00			15:54	6	09:28 (2)	15:37	
24	05:00		06:49 (3)	06:04		06:46 (4)	07:10		07:53 (5)	08:15			08:25			09:06	
	21:58	45	07:34 (3)	20:45	25	07:11 (4)	19:19	28	08:21 (5)	17:58			15:53			15:38	
25	05:01		06:48 (3)	06:06		06:46 (4)	07:12		07:53 (5)	07:18		09:16 (2)	08:27			09:07	
	21:56	46	07:34 (3)	20:43	24	07:10 (4)	19:16	27	08:20 (5)	16:55	12	09:28 (2)	15:51			15:39	
26	05:03		06:48 (3)	06:08		06:47 (4)	07:14		07:53 (5)	07:20		09:14 (2)	08:29			09:07	
	21:54	47	07:35 (3)	20:40	21	07:08 (4)	19:14	26	08:19 (5)	16:53	18	09:32 (2)	15:50			15:39	
27	05:05		06:48 (3)	06:10		06:48 (4)	07:16		07:55 (5)	07:22		09:11 (2)	08:31			09:07	
	21:52	48	07:36 (3)	20:37	19	07:07 (4)	19:11	24	08:19 (5)	16:50	23	09:34 (2)	15:48			15:40	
28	05:07		06:48 (3)	06:13		06:50 (4)	07:18		07:55 (5)	07:25		09:10 (2)	08:33			09:07	
	21:50	48	07:36 (3)	20:34	14	07:04 (4)	19:08	22	08:17 (5)	16:48	26	09:36 (2)	15:47			15:41	
29	05:09		06:47 (3)	06:15		06:53 (4)	07:20		07:56 (5)	07:27		09:08 (2)	08:35			09:07	
	21:48	49	07:36 (3)	20:32	7	07:00 (4)	19:05	19	08:15 (5)	16:45	28	09:36 (2)	15:46			15:42	
30	05:11		06:47 (3)	06:17			07:23		07:58 (5)	07:29		09:08 (2)	08:37			09:07	
	21:46	49	07:36 (3)	20:29			19:02	15	08:13 (5)	16:43	30	09:38 (2)	15:45			15:43	
31	05:13		06:47 (3)	06:19						07:31		09:06 (2)				09:07	
	21:44	50	07:37 (3)	20:26						16:41	32	09:38 (2)				15:44	
Potential sun hours	538			474			386			321			241			207	
Total, worst case		1031			1336			395			176			677			
Sun reduction		0.57			0.55			0.43			0.31			0.15			
Oper. time red.		0.93			0.93			0.93			0.93			0.93			
Wind dir. red.		0.64			0.64			0.62			0.63			0.63			
Total reduction		0.34			0.33			0.25			0.18			0.09			
Total, real		349			434			98			32			61			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AU - Jaunolki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		10:12 (10)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:57 (10)
	15:45	26	10:38 (10)	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:23	18:59	16:38			15:43	28	10:25 (10)
2	09:06		10:12 (10)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:58 (10)
	15:47	26	10:38 (10)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	27	10:25 (10)
3	09:06		10:12 (10)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38			08:43		09:58 (10)
	15:48	26	10:38 (10)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	27	10:25 (10)
4	09:06		10:12 (10)	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:58 (10)
	15:49	27	10:39 (10)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	28	10:26 (10)
5	09:05		10:13 (10)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:59 (10)
	15:51	27	10:40 (10)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	27	10:26 (10)
6	09:04		10:13 (10)	08:17	07:06	06:40	05:22	04:27	04:31	05:25	06:32	07:35	07:45			08:48		10:00 (10)
	15:52	28	10:41 (10)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:26			15:39	27	10:27 (10)
7	09:04		10:14 (10)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48			08:49		09:59 (10)
	15:54	27	10:41 (10)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	27	10:26 (10)
8	09:03		10:14 (10)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		10:00 (10)
	15:56	28	10:42 (10)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	27	10:27 (10)
9	09:02		10:14 (10)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		10:01 (10)
	15:57	27	10:41 (10)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	27	10:28 (10)
10	09:01		10:15 (10)	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54			08:54		10:01 (10)
	15:59	27	10:42 (10)	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:35	16:18			15:36	26	10:27 (10)
11	09:00		10:15 (10)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57			08:55		10:02 (10)
	16:01	28	10:43 (10)	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16			15:36	26	10:28 (10)
12	08:59		10:15 (10)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59			08:56		10:02 (10)
	16:03	27	10:42 (10)	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14			15:35	26	10:28 (10)
13	08:58		10:16 (10)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		10:02 (10)
	16:05	27	10:43 (10)	17:14	18:19	20:28	21:34	22:23	22:15	21:13	19:50	18:26	16:12			15:35	26	10:28 (10)
14	08:57		10:16 (10)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04			08:59		10:04 (10)
	16:07	27	10:43 (10)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	25	10:29 (10)
15	08:56		10:17 (10)	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06			09:00		10:04 (10)
	16:08	27	10:44 (10)	17:19	18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08			15:35	25	10:29 (10)
16	08:55		10:18 (10)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08			09:01		10:05 (10)
	16:10	25	10:43 (10)	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06			15:35	25	10:30 (10)
17	08:53		10:18 (10)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		10:03 (10)	09:02		10:05 (10)
	16:13	25	10:43 (10)	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	8	10:11 (10)	15:35	25	10:30 (10)
18	08:52		10:19 (10)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13		10:00 (10)	09:03		10:06 (10)
	16:15	25	10:44 (10)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	13	10:13 (10)	15:35	25	10:31 (10)
19	08:50		10:20 (10)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:59 (10)	09:03		10:05 (10)
	16:17	23	10:43 (10)	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	16	10:15 (10)	15:35	25	10:30 (10)
20	08:49		10:21 (10)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:58 (10)	09:04		10:06 (10)
	16:19	22	10:43 (10)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	18	10:16 (10)	15:36	25	10:31 (10)
21	08:47		10:22 (10)	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19		09:58 (10)	09:05		10:07 (10)
	16:21	20	10:42 (10)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	20	10:18 (10)	15:36	25	10:32 (10)
22	08:46		10:23 (10)	07:38	06:22	05:57	04:48	04:21	04:55	06:00	07:05	08:11	08:21		09:57 (10)	09:05		10:07 (10)
	16:23	18	10:41 (10)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	22	10:19 (10)	15:36	25	10:32 (10)
23	08:44		10:24 (10)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:57 (10)	09:06		10:08 (10)
	16:25	16	10:40 (10)	17:38	18:41	20:50	21:53	22:28	22:00	20:48	19:22	18:00	15:54	23	10:20 (10)	15:37	25	10:33 (10)
24	08:42		10:26 (10)	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:56 (10)	09:06		10:08 (10)
	16:28	13	10:39 (10)	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	25	10:21 (10)	15:37	25	10:33 (10)
25	08:41		10:30 (10)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:56 (10)	09:07		10:09 (10)
	16:30	7	10:37 (10)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	25	10:21 (10)	15:38	25	10:34 (10)
26	08:39			07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:57 (10)	09:07		10:09 (10)
	16:32			17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:49	25	10:22 (10)	15:39	25	10:34 (10)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:56 (10)	09:07		10:09 (10)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	27	10:23 (10)	15:40	26	10:35 (10)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33		09:56 (10)	09:07		10:10 (10)
	16:37			17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	27	10:23 (10)	15:41	25	10:35 (10)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:56 (10)	09:07		10:10 (10)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	27	10:23 (10)	15:42	26	10:36 (10)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:57 (10)	09:07		10:11 (10)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	28	10:25 (10)	15:43	26	10:37 (10)
31	08:29				06:57		04:34		05:13	06:19		07:31				09:07		10:11 (10)
	16:44				19:59		22:07		21:44	20:26		16:40				15:44	26	10:37 (10)
Potential sun hours	227			262	365	429	516	539	539	475	386	321	241			207		
Total, worst case		599												304			803	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.60												0.60			0.60	
Total reduction		0.07												0.09			0.07	
Total, real		44												26			57	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AV - Jaunsalinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AW - Jaunspringi
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April		May	June
1	09:06			08:27		15:15 (12)	07:19		16:17 (13)	06:54		05:33	04:33
	15:45			16:46	17	15:32 (12)	17:52	27	16:44 (13)	20:01		21:07	22:09
2	09:06			08:25		15:17 (12)	07:17		16:18 (13)	06:51		05:31	04:31
	15:46			16:48	14	15:31 (12)	17:54	25	16:43 (13)	20:03		21:09	22:10
3	09:06			08:23		15:19 (12)	07:14		16:19 (13)	06:48		05:29	04:30
	15:48			16:50	11	15:30 (12)	17:56	22	16:41 (13)	20:05		21:12	22:12
4	09:05			08:21			07:11		16:20 (13)	06:45		05:26	04:29
	15:49			16:53			17:59	19	16:39 (13)	20:08		21:14	22:13
5	09:05			08:19			07:09		16:23 (13)	06:42		05:24	04:28
	15:51			16:55			18:01	14	16:37 (13)	20:10		21:16	22:14
6	09:04			08:16			07:06		16:29 (13)	06:40		05:21	04:27
	15:52			16:58			18:03	2	16:31 (13)	20:12		21:18	22:16
7	09:03			08:14			07:03			06:37		05:19	04:26
	15:54			17:00			18:05			20:14		21:20	22:17
8	09:03			08:12			07:00			06:34		05:17	04:25
	15:55			17:02			18:08			20:16		21:23	22:18
9	09:02			08:10			06:58			06:31		05:15	04:24
	15:57			17:05			18:10			20:19		21:25	22:19
10	09:01			08:07			06:55			06:29		05:12	04:24
	15:59			17:07			18:12			20:21		21:27	22:20
11	09:00		15:15 (12)	08:05			06:52			06:26		05:10	04:23
	16:01	3	15:18 (12)	17:09			18:14			20:23		21:29	22:21
12	08:59		15:13 (12)	08:03			06:49			06:23		05:08	04:22
	16:02	6	15:19 (12)	17:12			18:17			20:25		21:31	22:22
13	08:58		15:12 (12)	08:00			06:47			06:20		05:06	04:22
	16:04	10	15:22 (12)	17:14			18:19			20:27		21:33	22:23
14	08:57		15:11 (12)	07:58		16:25 (13)	06:44			06:18		05:04	04:22
	16:06	13	15:24 (12)	17:17	13	16:38 (13)	18:21			20:30		21:35	22:24
15	08:56		15:11 (12)	07:55		16:23 (13)	06:41			06:15		05:01	04:21
	16:08	15	15:26 (12)	17:19	18	16:41 (13)	18:23			20:32		21:37	22:25
16	08:54		15:11 (12)	07:53		16:21 (13)	06:38			06:12		04:59	04:21
	16:10	17	15:28 (12)	17:21	21	16:42 (13)	18:26			20:34		21:39	22:25
17	08:53		15:10 (12)	07:50		16:19 (13)	06:36			06:10		04:57	04:21
	16:12	20	15:30 (12)	17:24	24	16:43 (13)	18:28			20:36		21:42	22:26
18	08:52		15:09 (12)	07:48		16:19 (13)	06:33			06:07		04:55	04:21
	16:14	21	15:30 (12)	17:26	26	16:45 (13)	18:30			20:38		21:44	22:26
19	08:50		15:10 (12)	07:45		16:18 (13)	06:30			06:04		04:54	04:21
	16:16	22	15:32 (12)	17:28	28	16:46 (13)	18:32			20:41		21:46	22:27
20	08:49		15:10 (12)	07:43		16:17 (13)	06:27			06:02		04:52	04:21
	16:19	22	15:32 (12)	17:31	29	16:46 (13)	18:35			20:43		21:47	22:27
21	08:47		15:10 (12)	07:40		16:17 (13)	06:24			05:59		04:50	04:21
	16:21	23	15:33 (12)	17:33	30	16:47 (13)	18:37			20:45		21:49	22:27
22	08:45		15:10 (12)	07:38		16:16 (13)	06:22			05:56		04:48	04:21
	16:23	23	15:33 (12)	17:35	31	16:47 (13)	18:39			20:47		21:51	22:28
23	08:44		15:10 (12)	07:35		16:15 (13)	06:19			05:54		04:46	04:21
	16:25	24	15:34 (12)	17:38	32	16:47 (13)	18:41			20:50		21:53	22:28
24	08:42		15:10 (12)	07:33		16:15 (13)	06:16			05:51		04:44	04:21
	16:27	24	15:34 (12)	17:40	31	16:46 (13)	18:43			20:52		21:55	22:28
25	08:40		15:10 (12)	07:30		16:16 (13)	06:13			05:49		04:43	04:22
	16:30	25	15:35 (12)	17:42	31	16:47 (13)	18:46			20:54		21:57	22:28
26	08:39		15:11 (12)	07:27		16:16 (13)	06:10			05:46		04:41	04:22
	16:32	24	15:35 (12)	17:45	30	16:46 (13)	18:48			20:56		21:59	22:28
27	08:37		15:11 (12)	07:25		16:16 (13)	06:08			05:43		04:40	04:23
	16:34	24	15:35 (12)	17:47	30	16:46 (13)	18:50			20:58		22:00	22:27
28	08:35		15:11 (12)	07:22		16:16 (13)	06:05			05:41		04:38	04:23
	16:36	23	15:34 (12)	17:49	29	16:45 (13)	18:52			21:01		22:02	22:27
29	08:33		15:12 (12)				07:02			05:38		04:37	04:24
	16:39	22	15:34 (12)				19:54			21:03		22:04	22:27
30	08:31		15:13 (12)				06:59			05:36		04:35	04:25
	16:41	21	15:34 (12)				19:57			21:05		22:06	22:27
31	08:29		15:14 (12)				06:56					04:34	
	16:43	20	15:34 (12)				19:59					22:07	
Potential sun hours	227			262			365			429		516	539
Total, worst case		402			445			109					
Sun reduction		0.13			0.22			0.37					
Oper. time red.		0.93			0.93			0.93					
Wind dir. red.		0.67			0.64			0.64					
Total reduction		0.08			0.13			0.22					
Total, real		33			59			24					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AW - Jaunspringi
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October		November		December	
1	04:26	05:15	06:21	07:24		07:33		08:39	14:56 (12)
	22:26	21:41	20:23	18:59		16:38		15:43	3 14:59 (12)
2	04:26	05:17	06:23	07:26		07:36		08:41	
	22:26	21:39	20:20	18:56		16:35		15:42	
3	04:27	05:19	06:25	07:29		07:38		08:42	
	22:25	21:37	20:18	18:54		16:33		15:41	
4	04:28	05:21	06:27	07:31		07:40		08:44	
	22:24	21:35	20:15	18:51		16:31		15:40	
5	04:29	05:23	06:29	07:33		07:43		08:46	
	22:23	21:32	20:12	18:48		16:28		15:39	
6	04:31	05:25	06:31	07:35		07:45		08:48	
	22:23	21:30	20:09	18:45		16:26		15:38	
7	04:32	05:27	06:33	07:37		07:47	14:53 (12)	08:49	
	22:22	21:28	20:07	18:43		16:24	4 14:57 (12)	15:38	
8	04:33	05:29	06:36	07:39	17:00 (13)	07:50	14:49 (12)	08:51	
	22:21	21:25	20:04	18:40	10 17:10 (13)	16:22	11 15:00 (12)	15:37	
9	04:34	05:32	06:38	07:42	16:57 (13)	07:52	14:47 (12)	08:52	
	22:20	21:23	20:01	18:37	16 17:13 (13)	16:20	15 15:02 (12)	15:36	
10	04:36	05:34	06:40	07:44	16:54 (13)	07:54	14:47 (12)	08:53	
	22:19	21:21	19:58	18:34	21 17:15 (13)	16:18	17 15:04 (12)	15:36	
11	04:37	05:36	06:42	07:46	16:52 (13)	07:57	14:45 (12)	08:55	
	22:18	21:18	19:55	18:32	24 17:16 (13)	16:15	20 15:05 (12)	15:36	
12	04:39	05:38	06:44	07:48	16:51 (13)	07:59	14:45 (12)	08:56	
	22:16	21:16	19:53	18:29	26 17:17 (13)	16:13	21 15:06 (12)	15:35	
13	04:40	05:40	06:46	07:50	16:50 (13)	08:01	14:44 (12)	08:57	
	22:15	21:13	19:50	18:26	28 17:18 (13)	16:11	22 15:06 (12)	15:35	
14	04:42	05:42	06:48	07:53	16:49 (13)	08:03	14:44 (12)	08:58	
	22:14	21:11	19:47	18:24	29 17:18 (13)	16:09	23 15:07 (12)	15:35	
15	04:43	05:44	06:50	07:55	16:48 (13)	08:06	14:43 (12)	09:00	
	22:12	21:08	19:44	18:21	31 17:19 (13)	16:07	24 15:07 (12)	15:35	
16	04:45	05:46	06:52	07:57	16:48 (13)	08:08	14:44 (12)	09:01	
	22:11	21:06	19:41	18:18	30 17:18 (13)	16:06	24 15:08 (12)	15:35	
17	04:46	05:49	06:55	07:59	16:47 (13)	08:10	14:43 (12)	09:01	
	22:09	21:03	19:39	18:16	31 17:18 (13)	16:04	25 15:08 (12)	15:35	
18	04:48	05:51	06:57	08:02	16:47 (13)	08:12	14:44 (12)	09:02	
	22:08	21:01	19:36	18:13	31 17:18 (13)	16:02	24 15:08 (12)	15:35	
19	04:50	05:53	06:59	08:04	16:47 (13)	08:14	14:44 (12)	09:03	
	22:06	20:58	19:33	18:10	31 17:18 (13)	16:00	24 15:08 (12)	15:35	
20	04:52	05:55	07:01	08:06	16:47 (13)	08:17	14:45 (12)	09:04	
	22:05	20:55	19:30	18:08	31 17:18 (13)	15:58	24 15:09 (12)	15:35	
21	04:53	05:57	07:03	08:08	16:47 (13)	08:19	14:45 (12)	09:04	
	22:03	20:53	19:27	18:05	30 17:17 (13)	15:57	23 15:08 (12)	15:36	
22	04:55	05:59	07:05	08:11	16:47 (13)	08:21	14:46 (12)	09:05	
	22:01	20:50	19:24	18:03	29 17:16 (13)	15:55	23 15:09 (12)	15:36	
23	04:57	06:01	07:07	08:13	16:48 (13)	08:23	14:46 (12)	09:06	
	21:59	20:48	19:22	18:00	28 17:16 (13)	15:54	22 15:08 (12)	15:37	
24	04:59	06:04	07:09	08:15	16:48 (13)	08:25	14:48 (12)	09:06	
	21:57	20:45	19:19	17:57	26 17:14 (13)	15:52	20 15:08 (12)	15:37	
25	05:01	06:06	07:11	07:17	15:50 (13)	08:27	14:48 (12)	09:06	
	21:56	20:42	19:16	16:55	23 16:13 (13)	15:51	20 15:08 (12)	15:38	
26	05:03	06:08	07:14	07:20	15:51 (13)	08:29	14:49 (12)	09:07	
	21:54	20:40	19:13	16:52	20 16:11 (13)	15:49	18 15:07 (12)	15:39	
27	05:05	06:10	07:16	07:22	15:53 (13)	08:31	14:50 (12)	09:07	
	21:52	20:37	19:10	16:50	17 16:10 (13)	15:48	16 15:06 (12)	15:40	
28	05:07	06:12	07:18	07:24	15:55 (13)	08:33	14:51 (12)	09:07	
	21:50	20:34	19:08	16:47	11 16:06 (13)	15:47	13 15:04 (12)	15:40	
29	05:09	06:14	07:20	07:27		08:35	14:52 (12)	09:07	
	21:48	20:31	19:05	16:45		15:45	10 15:02 (12)	15:41	
30	05:11	06:16	07:22	07:29		08:37	14:54 (12)	09:07	
	21:46	20:29	19:02	16:43		15:44	6 15:00 (12)	15:42	
31	05:13	06:19		07:31				09:07	
	21:43	20:26		16:40				15:44	
Potential sun hours	539	475	386	321		241		207	
Total, worst case					523		449		3
Sun reduction					0.31		0.15		0.13
Oper. time red.					0.93		0.93		0.93
Wind dir. red.					0.64		0.67		0.67
Total reduction					0.18		0.10		0.08
Total, real					95		43		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AX - Jauntaujani 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:24	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:48	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AY - Jaunterces

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:07		10:47 (1)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39		
	15:46	25	11:31 (4)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43		
2	09:06		10:48 (1)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41		
	15:47	23	11:31 (4)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42		
3	09:06		10:50 (1)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43		
	15:48	19	11:31 (4)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:06		11:17 (4)	08:21	07:12	06:46	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45		
	15:50	13	11:30 (4)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05		11:19 (4)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46		11:08 (4)
	15:51	11	11:30 (4)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:40	5	11:13 (4)
6	09:04		11:21 (4)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48		11:07 (4)
	15:53	9	11:30 (4)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39	9	11:16 (4)
7	09:04		11:23 (4)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49		11:05 (4)
	15:54	5	11:28 (4)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38	11	11:16 (4)
8	09:03			08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51		11:05 (4)
	15:56			17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37	13	11:18 (4)
9	09:02			08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52		10:40 (1)
	15:57			17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37	18	11:20 (4)
10	09:01			08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54		10:38 (1)
	15:59			17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36	22	11:20 (4)
11	09:00			08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		10:38 (1)
	16:01			17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36	25	11:22 (4)
12	08:59			08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56		10:37 (1)
	16:03			17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:36	28	11:22 (4)
13	08:58			08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58		10:36 (1)
	16:05			17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35	30	11:22 (4)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59		10:37 (1)
	16:07			17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35	32	11:24 (4)
15	08:56			07:56	06:41	06:15	05:02	04:22	04:43	05:45	06:51	07:55	08:06	09:00		10:37 (1)
	16:09			17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35	32	11:24 (4)
16	08:55			07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01		10:37 (1)
	16:11			17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35	34	11:25 (4)
17	08:53			07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02		10:38 (1)
	16:13			17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	34	11:26 (4)
18	08:52			07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03		10:38 (1)
	16:15			17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35	34	11:26 (4)
19	08:50			07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		10:39 (1)
	16:17			17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:35	34	11:27 (4)
20	08:49			07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		10:38 (1)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36	36	11:27 (4)
21	08:47			07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05		10:39 (1)
	16:21			17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36	36	11:28 (4)
22	08:46			07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05		10:39 (1)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	36	11:28 (4)
23	08:44			07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:08	08:13	08:23	09:06		10:40 (1)
	16:25			17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37	36	11:29 (4)
24	08:42			07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06		10:40 (1)
	16:28			17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38	35	11:29 (4)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:07		10:41 (1)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38	34	11:29 (4)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07		10:41 (1)
	16:32			17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39	35	11:30 (4)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07		10:42 (1)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	34	11:30 (4)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07		10:43 (1)
	16:37			17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	15:41	32	11:30 (4)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07		10:44 (1)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42	31	11:31 (4)
30	08:31				06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07		10:45 (1)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	30	11:31 (4)
31	08:29				06:57		04:34		05:13	06:19		07:31		09:07		10:45 (1)
	16:44				19:59		22:07		21:44	20:26		16:40		15:44	29	11:31 (4)
Potential sun hours	227			262	365	429	515	539	539	475	386	321	241	207		
Total, worst case		105													765	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.63													0.63	
Total reduction		0.08													0.07	
Total, real		8													57	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AZ - Jaunto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May			June		
1	09:06			08:27		15:05 (9)	07:19			06:54			05:34		18:45 (12)	04:33		19:11 (12)
	15:45			16:46	27	15:32 (9)	17:52			20:01			21:07	58	19:43 (12)	22:09	10	19:21 (12)
2	09:06			08:25		15:06 (9)	07:17			06:51			05:31		18:45 (12)	04:31		
	15:47			16:48	27	15:33 (9)	17:54			20:03			21:09	57	19:42 (12)	22:10		
3	09:06			08:23		15:07 (9)	07:14			06:48			05:29		18:45 (12)	04:30		
	15:48			16:51	25	15:32 (9)	17:56			20:05			21:12	57	19:42 (12)	22:12		
4	09:05			08:21		15:07 (9)	07:11			06:45			05:26		18:45 (12)	04:29		
	15:49			16:53	24	15:31 (9)	17:59			20:08			21:14	57	19:42 (12)	22:13		
5	09:05			08:18		15:09 (9)	07:09			06:42			05:24		18:45 (12)	04:28		
	15:51			16:55	22	15:31 (9)	18:01			20:10			21:16	57	19:42 (12)	22:14		
6	09:04			08:16		15:10 (9)	07:06			06:40			05:22		18:44 (12)	04:27		
	15:52			16:58	19	15:29 (9)	18:03			20:12			21:18	57	19:41 (12)	22:16		
7	09:03			08:14		15:12 (9)	07:03			06:37			05:19		18:45 (12)	04:26		
	15:54			17:00	16	15:28 (9)	18:05			20:14			21:20	56	19:41 (12)	22:17		
8	09:03			08:12		15:14 (9)	07:00			06:34			05:17		18:45 (12)	04:25		
	15:56			17:02	11	15:25 (9)	18:08			20:16			21:23	56	19:41 (12)	22:18		
9	09:02			08:10			06:58			06:31			05:15		18:45 (12)	04:25		
	15:57			17:05			18:10			20:19			21:25	56	19:41 (12)	22:19		
10	09:01			08:07			06:55			06:29			05:12		18:46 (12)	04:24		
	15:59			17:07			18:12			20:21			21:27	54	19:40 (12)	22:20		
11	09:00			08:05			06:52			06:26			05:10		18:46 (12)	04:23		
	16:01			17:10			18:14			20:23			21:29	54	19:40 (12)	22:21		
12	08:59		15:11 (9)	08:03			06:49			06:23		19:11 (12)	05:08		18:47 (12)	04:23		
	16:03	5	15:16 (9)	17:12			18:17			20:25	14	19:25 (12)	21:31	52	19:39 (12)	22:22		
13	08:58		15:09 (9)	08:00			06:47			06:20		19:06 (12)	05:06		18:47 (12)	04:22		
	16:04	10	15:19 (9)	17:14			18:19			20:27	22	19:28 (12)	21:33	52	19:39 (12)	22:23		
14	08:57		15:07 (9)	07:58			06:44			06:18		19:02 (12)	05:04		18:48 (12)	04:22		
	16:06	14	15:21 (9)	17:17			18:21			20:30	29	19:31 (12)	21:35	50	19:38 (12)	22:24		
15	08:55		15:06 (9)	07:55			06:41		17:46 (11)	06:15		19:00 (12)	05:02		18:49 (12)	04:21		
	16:08	16	15:22 (9)	17:19			18:23	8	17:54 (11)	20:32	33	19:33 (12)	21:37	49	19:38 (12)	22:24		
16	08:54		15:06 (9)	07:53			06:38		17:44 (11)	06:12		18:58 (12)	05:00		18:50 (12)	04:21		
	16:10	18	15:24 (9)	17:21			18:26	13	17:57 (11)	20:34	37	19:35 (12)	21:39	48	19:38 (12)	22:25		
17	08:53		15:05 (9)	07:50			06:36		17:42 (11)	06:10		18:56 (12)	04:58		18:50 (12)	04:21		
	16:12	20	15:25 (9)	17:24			18:28	17	17:59 (11)	20:36	41	19:37 (12)	21:41	47	19:37 (12)	22:26		
18	08:51		15:04 (9)	07:48			06:33		17:40 (11)	06:07		18:54 (12)	04:56		18:51 (12)	04:21		
	16:14	22	15:26 (9)	17:26			18:30	21	18:01 (11)	20:38	43	19:37 (12)	21:43	45	19:36 (12)	22:26		
19	08:50		15:04 (9)	07:45			06:30		17:39 (11)	06:04		18:54 (12)	04:54		18:52 (12)	04:21		
	16:17	24	15:28 (9)	17:28			18:32	22	18:01 (11)	20:41	45	19:39 (12)	21:45	44	19:36 (12)	22:27		
20	08:49		15:04 (9)	07:43			06:27		17:38 (11)	06:02		18:52 (12)	04:52		18:53 (12)	04:21		
	16:19	25	15:29 (9)	17:31			18:35	23	18:01 (11)	20:43	47	19:39 (12)	21:47	42	19:35 (12)	22:27		
21	08:47		15:04 (9)	07:40			06:24		17:37 (11)	05:59		18:50 (12)	04:50		18:53 (12)	04:21		
	16:21	25	15:29 (9)	17:33			18:37	24	18:01 (11)	20:45	49	19:39 (12)	21:49	41	19:34 (12)	22:27		
22	08:45		15:03 (9)	07:38			06:22		17:37 (11)	05:56		18:50 (12)	04:48		18:55 (12)	04:21		
	16:23	27	15:30 (9)	17:36			18:39	25	18:02 (11)	20:47	50	19:40 (12)	21:51	39	19:34 (12)	22:27		
23	08:44		15:03 (9)	07:35			06:19		17:37 (11)	05:54		18:49 (12)	04:46		18:55 (12)	04:21		
	16:25	28	15:31 (9)	17:38			18:41	24	18:01 (11)	20:50	52	19:41 (12)	21:53	37	19:32 (12)	22:28		
24	08:42		15:03 (9)	07:33			06:16		17:36 (11)	05:51		18:48 (12)	04:45		18:57 (12)	04:22		
	16:27	28	15:31 (9)	17:40			18:43	25	18:01 (11)	20:52	53	19:41 (12)	21:55	35	19:32 (12)	22:28		
25	08:40		15:03 (9)	07:30			06:13		17:36 (11)	05:49		18:48 (12)	04:43		18:59 (12)	04:22		
	16:30	29	15:32 (9)	17:42			18:46	24	18:00 (11)	20:54	54	19:42 (12)	21:57	32	19:31 (12)	22:28		
26	08:39		15:03 (9)	07:27			06:10		17:36 (11)	05:46		18:46 (12)	04:41		18:59 (12)	04:22		
	16:32	30	15:33 (9)	17:45			18:48	22	17:58 (11)	20:56	56	19:42 (12)	21:59	31	19:30 (12)	22:28		
27	08:37		15:04 (9)	07:25			06:08		17:38 (11)	05:44		18:46 (12)	04:40		19:01 (12)	04:23		
	16:34	29	15:33 (9)	17:47			18:50	20	17:58 (11)	20:58	56	19:42 (12)	22:00	28	19:29 (12)	22:27		
28	08:35		15:03 (9)	07:22			06:05		17:39 (11)	05:41		18:45 (12)	04:38		19:03 (12)	04:24		
	16:37	29	15:32 (9)	17:49			18:52	17	17:56 (11)	21:01	57	19:42 (12)	22:02	25	19:28 (12)	22:27		
29	08:33		15:04 (9)				07:02		18:40 (11)	05:39		18:45 (12)	04:37		19:04 (12)	04:24		
	16:39	29	15:33 (9)				19:54	14	18:54 (11)	21:03	57	19:42 (12)	22:04	22	19:26 (12)	22:27		
30	08:31		15:04 (9)				06:59		18:43 (11)	05:36		18:45 (12)	04:35		19:06 (12)	04:25		
	16:41	29	15:33 (9)				19:57	7	18:50 (11)	21:05	58	19:43 (12)	22:05	19	19:25 (12)	22:26		
31	08:29		15:05 (9)				06:56						04:34		19:08 (12)			
	16:43	28	15:33 (9)				19:59						22:07	15	19:23 (12)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		465			171			306			853			1372			10	
Sun reduction		0.13			0.22			0.37			0.46			0.58			0.53	
Oper. time red.		0.93			0.93			0.93			0.93			0.93			0.93	
Wind dir. red.		0.67			0.67			0.65			0.63			0.63			0.63	
Total reduction		0.08			0.14			0.22			0.27			0.34			0.31	
Total, real		38			23			68			231			468			3	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: AZ - Jaunto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July			August			September			October	November			December
1	04:26			05:15		18:57 (12)	06:21			07:24	07:33			08:39
	22:26			21:41	53	19:50 (12)	20:23			18:59	16:38			15:43
2	04:27			05:17		18:56 (12)	06:23			07:26	07:36			08:41
	22:25			21:39	54	19:50 (12)	20:20			18:56	16:35			15:42
3	04:28			05:19		18:56 (12)	06:25			07:29	07:38		14:43 (9)	08:42
	22:25			21:37	55	19:51 (12)	20:18			18:54	16:33	12	14:55 (9)	15:41
4	04:29			05:21		18:56 (12)	06:27			07:31	07:40		14:41 (9)	08:44
	22:24			21:35	55	19:51 (12)	20:15			18:51	16:31	17	14:58 (9)	15:40
5	04:30			05:23		18:55 (12)	06:29			07:33	07:43		14:40 (9)	08:46
	22:23			21:32	56	19:51 (12)	20:12			18:48	16:29	20	15:00 (9)	15:39
6	04:31			05:25		18:55 (12)	06:31			07:35	07:45		14:38 (9)	08:47
	22:23			21:30	56	19:51 (12)	20:09			18:45	16:26	23	15:01 (9)	15:39
7	04:32			05:27		18:55 (12)	06:33			07:37	07:47		14:38 (9)	08:49
	22:22			21:28	57	19:52 (12)	20:07			18:43	16:24	24	15:02 (9)	15:38
8	04:33			05:30		18:54 (12)	06:36			07:39	07:50		14:37 (9)	08:51
	22:21			21:25	58	19:52 (12)	20:04			18:40	16:22	25	15:02 (9)	15:37
9	04:34			05:32		18:54 (12)	06:38			07:42	07:52		14:36 (9)	08:52
	22:20			21:23	58	19:52 (12)	20:01			18:37	16:20	27	15:03 (9)	15:37
10	04:36			05:34		18:54 (12)	06:40			07:44	07:54		14:36 (9)	08:53
	22:19			21:21	58	19:52 (12)	19:58			18:34	16:18	27	15:03 (9)	15:36
11	04:37		19:20 (12)	05:36		18:54 (12)	06:42			07:46	07:56		14:36 (9)	08:55
	22:17	7	19:27 (12)	21:18	57	19:51 (12)	19:55			18:32	16:16	28	15:04 (9)	15:36
12	04:39		19:17 (12)	05:38		18:54 (12)	06:44			07:48	07:59		14:36 (9)	08:56
	22:16	14	19:31 (12)	21:16	57	19:51 (12)	19:53			18:29	16:14	29	15:05 (9)	15:35
13	04:40		19:15 (12)	05:40		18:54 (12)	06:46		18:36 (11)	07:50	08:01		14:35 (9)	08:57
	22:15	18	19:33 (12)	21:13	57	19:51 (12)	19:50	4	18:40 (11)	18:26	16:12	30	15:05 (9)	15:35
14	04:42		19:13 (12)	05:42		18:53 (12)	06:48		18:31 (11)	07:53	08:03		14:36 (9)	08:58
	22:14	21	19:34 (12)	21:11	57	19:50 (12)	19:47	13	18:44 (11)	18:24	16:10	29	15:05 (9)	15:35
15	04:43		19:12 (12)	05:44		18:53 (12)	06:50		18:29 (11)	07:55	08:06		14:36 (9)	08:59
	22:12	24	19:36 (12)	21:08	56	19:49 (12)	19:44	16	18:45 (11)	18:21	16:08	29	15:05 (9)	15:35
16	04:45		19:10 (12)	05:47		18:53 (12)	06:52		18:27 (11)	07:57	08:08		14:36 (9)	09:00
	22:11	27	19:37 (12)	21:06	56	19:49 (12)	19:41	19	18:46 (11)	18:18	16:06	30	15:06 (9)	15:35
17	04:47		19:10 (12)	05:49		18:53 (12)	06:55		18:25 (11)	07:59	08:10		14:36 (9)	09:01
	22:09	29	19:39 (12)	21:03	55	19:48 (12)	19:39	22	18:47 (11)	18:16	16:04	29	15:05 (9)	15:35
18	04:48		19:08 (12)	05:51		18:53 (12)	06:57		18:24 (11)	08:02	08:12		14:37 (9)	09:02
	22:08	32	19:40 (12)	21:01	55	19:48 (12)	19:36	23	18:47 (11)	18:13	16:02	28	15:05 (9)	15:35
19	04:50		19:07 (12)	05:53		18:54 (12)	06:59		18:23 (11)	08:04	08:14		14:37 (9)	09:03
	22:06	34	19:41 (12)	20:58	53	19:47 (12)	19:33	24	18:47 (11)	18:10	16:00	28	15:05 (9)	15:35
20	04:52		19:07 (12)	05:55		18:54 (12)	07:01		18:22 (11)	08:06	08:17		14:38 (9)	09:04
	22:04	36	19:43 (12)	20:55	52	19:46 (12)	19:30	25	18:47 (11)	18:08	15:59	27	15:05 (9)	15:35
21	04:54		19:05 (12)	05:57		18:54 (12)	07:03		18:23 (11)	08:08	08:19		14:39 (9)	09:04
	22:03	38	19:43 (12)	20:53	51	19:45 (12)	19:27	25	18:48 (11)	18:05	15:57	25	15:04 (9)	15:36
22	04:55		19:05 (12)	05:59		18:55 (12)	07:05		18:22 (11)	08:11	08:21		14:40 (9)	09:05
	22:01	39	19:44 (12)	20:50	49	19:44 (12)	19:25	25	18:47 (11)	18:03	15:55	25	15:05 (9)	15:36
23	04:57		19:03 (12)	06:02		18:56 (12)	07:07		18:22 (11)	08:13	08:23		14:40 (9)	09:05
	21:59	41	19:44 (12)	20:48	47	19:43 (12)	19:22	24	18:46 (11)	18:00	15:54	24	15:04 (9)	15:37
24	04:59		19:03 (12)	06:04		18:56 (12)	07:09		18:22 (11)	08:15	08:25		14:42 (9)	09:06
	21:57	43	19:46 (12)	20:45	45	19:41 (12)	19:19	23	18:45 (11)	17:57	15:52	22	15:04 (9)	15:37
25	05:01		19:02 (12)	06:06		18:57 (12)	07:11		18:22 (11)	07:17	08:27		14:43 (9)	09:06
	21:55	45	19:47 (12)	20:42	43	19:40 (12)	19:16	22	18:44 (11)	16:55	15:51	20	15:03 (9)	15:38
26	05:03		19:02 (12)	06:08		18:58 (12)	07:14		18:23 (11)	07:20	08:29		14:44 (9)	09:06
	21:54	45	19:47 (12)	20:40	40	19:38 (12)	19:13	19	18:42 (11)	16:52	15:49	18	15:02 (9)	15:39
27	05:05		19:00 (12)	06:10		19:00 (12)	07:16		18:24 (11)	07:22	08:31		14:46 (9)	09:07
	21:52	47	19:47 (12)	20:37	36	19:36 (12)	19:10	15	18:39 (11)	16:50	15:48	16	15:02 (9)	15:40
28	05:07		19:00 (12)	06:12		19:01 (12)	07:18		18:26 (11)	07:24	08:33		14:47 (9)	09:07
	21:50	48	19:48 (12)	20:34	33	19:34 (12)	19:08	10	18:36 (11)	16:47	15:47	14	15:01 (9)	15:41
29	05:09		18:59 (12)	06:14		19:03 (12)	07:20			07:27	08:35		14:49 (9)	09:07
	21:48	50	19:49 (12)	20:31	28	19:31 (12)	19:05			16:45	15:45	10	14:59 (9)	15:42
30	05:11		18:59 (12)	06:16		19:06 (12)	07:22			07:29	08:37		14:52 (9)	09:07
	21:45	51	19:50 (12)	20:29	22	19:28 (12)	19:02			16:43	15:44	5	14:57 (9)	15:43
31	05:13		18:58 (12)	06:19		19:10 (12)				07:31				09:07
	21:43	52	19:50 (12)	20:26	13	19:23 (12)				16:40				15:44
Potential sun hours	538			474			386			321	241			207
Total, worst case		741			1522			309				641		
Sun reduction		0.57			0.55			0.43				0.15		
Oper. time red.		0.93			0.93			0.93				0.93		
Wind dir. red.		0.63			0.63			0.65				0.67		
Total reduction		0.33			0.32			0.26				0.10		
Total, real		246			488			80				61		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BA - Jaunupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June		July		August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33		05:28 (2)	04:26	05:23 (2)	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	5	05:33 (2)	22:26	25 05:48 (2)	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32		05:25 (2)	04:27	05:24 (2)	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	11	05:36 (2)	22:26	24 05:48 (2)	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31		05:24 (2)	04:28	05:24 (2)	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	13	05:37 (2)	22:25	24 05:48 (2)	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30		05:22 (2)	04:29	05:25 (2)	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	17	05:39 (2)	22:24	23 05:48 (2)	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29		05:21 (2)	04:30	05:26 (2)	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	19	05:40 (2)	22:24	22 05:48 (2)	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28		05:21 (2)	04:31	05:27 (2)	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	19	05:40 (2)	22:23	20 05:47 (2)	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27		05:21 (2)	04:33	05:28 (2)	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	21	05:42 (2)	22:22	18 05:46 (2)	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26		05:20 (2)	04:34	05:28 (2)	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22	05:42 (2)	22:21	18 05:46 (2)	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25		05:19 (2)	04:35	05:30 (2)	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	24	05:43 (2)	22:20	14 05:44 (2)	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24		05:19 (2)	04:36	05:32 (2)	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	25	05:44 (2)	22:19	12 05:44 (2)	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24		05:19 (2)	04:38	05:34 (2)	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	25	05:44 (2)	22:18	8 05:42 (2)	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23		05:19 (2)	04:39		05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	26	05:45 (2)	22:16		21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23		05:19 (2)	04:41		05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	27	05:46 (2)	22:15		21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22		05:18 (2)	04:42		05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	27	05:45 (2)	22:14		21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22		05:19 (2)	04:44		05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	27	05:46 (2)	22:12		21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22		05:19 (2)	04:45		05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	27	05:46 (2)	22:11		21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21		05:19 (2)	04:47		05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	28	05:47 (2)	22:09		21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21		05:19 (2)	04:49		05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	28	05:47 (2)	22:08		21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21		05:19 (2)	04:51		05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	28	05:47 (2)	22:06		20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21		05:19 (2)	04:52		05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	29	05:48 (2)	22:05		20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21		05:19 (2)	04:54		05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	29	05:48 (2)	22:03		20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22		05:20 (2)	04:56		06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	29	05:49 (2)	22:01		20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22		05:20 (2)	04:58		06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	29	05:49 (2)	21:59		20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22		05:20 (2)	05:00		06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	28	05:48 (2)	21:58		20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22		05:21 (2)	05:02		06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	28	05:49 (2)	21:56		20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23		05:21 (2)	05:03		06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	28	05:49 (2)	21:54		20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23		05:22 (2)	05:05		06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	27	05:49 (2)	21:52		20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24		05:22 (2)	05:07		06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	27	05:49 (2)	21:50		20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25		05:22 (2)	05:09		06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	27	05:49 (2)	21:48		20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26		05:23 (2)	05:11		06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	26	05:49 (2)	21:46		20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35				05:13		06:19		07:31		09:07
	16:44		19:59		22:07				21:44		20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539		538		474	386	321	241	207
Total, worst case							726		208					
Sun reduction							0.53		0.57					
Oper. time red.							0.93		0.93					
Wind dir. red.							0.66		0.66					
Total reduction							0.32		0.34					
Total, real							235		72					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BB - Jaunzagme ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:46	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:49	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:35
13	08:58	08:01	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:49	07:53	08:04	08:59
	16:07	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:08	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:26	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BC - Jemekli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:07		11:26 (13)	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39		
	15:45	16	11:42 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43		
2	09:06		11:28 (13)	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41		
	15:46	14	11:42 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42		
3	09:06		11:29 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43		
	15:48	13	11:42 (13)	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:05		11:30 (13)	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44		
	15:49	11	11:41 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05		11:32 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46		
	15:51	9	11:41 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39		
6	09:04		11:35 (13)	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48		11:20 (13)
	15:52	4	11:39 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38	4	11:24 (13)
7	09:04			08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49		11:18 (13)
	15:54			17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38	9	11:27 (13)
8	09:03			08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51		11:18 (13)
	15:55			17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37	11	11:29 (13)
9	09:02			08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52		11:18 (13)
	15:57			17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37	13	11:31 (13)
10	09:01			08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54		11:17 (13)
	15:59			17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36	14	11:31 (13)
11	09:00			08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		11:17 (13)
	16:01			17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36	16	11:33 (13)
12	08:59			08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56		11:17 (13)
	16:03			17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35	16	11:33 (13)
13	08:58			08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57		11:17 (13)
	16:04			17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35	17	11:34 (13)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59		11:17 (13)
	16:06			17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35	18	11:35 (13)
15	08:56			07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00		11:17 (13)
	16:08			17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35	19	11:36 (13)
16	08:54			07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01		11:18 (13)
	16:10			17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35	19	11:37 (13)
17	08:53			07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02		11:18 (13)
	16:12			17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	19	11:37 (13)
18	08:52			07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12	09:03		11:18 (13)
	16:14			17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35	20	11:38 (13)
19	08:50			07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		11:18 (13)
	16:16			17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35	20	11:38 (13)
20	08:49			07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		11:19 (13)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:35	20	11:39 (13)
21	08:47			07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05		11:20 (13)
	16:21			17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36	20	11:40 (13)
22	08:46			07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05		11:19 (13)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	21	11:40 (13)
23	08:44			07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06		11:21 (13)
	16:25			17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37	20	11:41 (13)
24	08:42			07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25	09:06		11:21 (13)
	16:27			17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37	20	11:41 (13)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06		11:21 (13)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	20	11:41 (13)
26	08:39			07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07		11:22 (13)
	16:32			17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	19	11:41 (13)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07		11:22 (13)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	19	11:41 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07		11:23 (13)
	16:36			17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40	19	11:42 (13)
29	08:33				07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07		11:24 (13)
	16:39				19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41	18	11:42 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07		11:25 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	18	11:43 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31		09:07		11:25 (13)
	16:43				19:59		22:07		21:44	20:26		16:40		15:44	17	11:42 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241	207		
Total, worst case		67													446	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.64													0.64	
Total reduction		0.08													0.08	
Total, real		5													34	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BD - Jennas A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:23	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:37	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:31	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:54	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:51	04:22	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:01	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:33	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:40
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:08	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:12	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:14	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BE - Jennas B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:37	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:31	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:54	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:51	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:01	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:33	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:40
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:08	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:14	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BF - Jesperi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:11	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:20	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:33	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:52	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:10	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:03
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:02	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:24	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:49	18:52	21:00	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BG - Kalnmalas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March		April		May	June
1	09:07		10:23 (2)		08:27		07:20		08:17 (3)	06:54		07:21 (1)	05:34	04:33
	15:46	27	10:50 (2)		16:46		17:52	38	08:55 (3)	20:01	19	07:40 (1)	21:08	22:09
2	09:06		10:24 (2)		08:25		07:17		08:16 (3)	06:51		07:20 (1)	05:31	04:32
	15:47	27	10:51 (2)		16:49		17:54	40	08:56 (3)	20:04	20	07:40 (1)	21:10	22:10
3	09:06		10:24 (2)		08:23		07:14		08:14 (3)	06:48		07:20 (1)	05:29	04:31
	15:48	27	10:51 (2)		16:51		17:57	42	08:56 (3)	20:06	19	07:39 (1)	21:12	22:12
4	09:06		10:24 (2)		08:21		07:12		08:14 (3)	06:46		07:21 (1)	05:27	04:30
	15:50	27	10:51 (2)		16:53		17:59	44	08:58 (3)	20:08	18	07:39 (1)	21:14	22:13
5	09:05		10:26 (2)		08:19		07:09		08:13 (3)	06:43		07:21 (1)	05:24	04:28
	15:51	26	10:52 (2)		16:56		18:01	45	08:58 (3)	20:10	17	07:38 (1)	21:16	22:15
6	09:04		10:26 (2)		08:17		07:06		08:13 (3)	06:40		07:21 (1)	05:22	04:28
	15:53	27	10:53 (2)		16:58		18:04	45	08:58 (3)	20:12	16	07:37 (1)	21:19	22:16
7	09:04		10:27 (2)		08:14		07:04		08:12 (3)	06:37		07:22 (1)	05:20	04:27
	15:54	26	10:53 (2)		17:00		18:06	46	08:58 (3)	20:15	13	07:35 (1)	21:21	22:17
8	09:03		10:26 (2)		08:12		07:01		08:11 (3)	06:35		07:25 (1)	05:17	04:26
	15:56	26	10:52 (2)		17:03		18:08	46	08:57 (3)	20:17	7	07:32 (1)	21:23	22:18
9	09:02		10:27 (2)		08:10		06:58		08:12 (3)	06:32			05:15	04:25
	15:58	26	10:53 (2)		17:05		18:10	46	08:58 (3)	20:19			21:25	22:19
10	09:01		10:28 (2)		08:08		06:55		08:11 (3)	06:29			05:13	04:24
	15:59	25	10:53 (2)		17:08		18:13	46	08:57 (3)	20:21			21:27	22:21
11	09:00		10:29 (2)		08:05		08:38 (5)	06:53		08:11 (3)	06:26			05:11	04:24
	16:01	25	10:54 (2)		17:10	9	08:47 (5)	18:15	46	08:57 (3)	20:23			21:29	22:21
12	08:59		10:29 (2)		08:03		08:36 (5)	06:50		07:23 (4)	06:24			05:08	04:23
	16:03	24	10:53 (2)		17:12	14	08:50 (5)	18:17	55	08:56 (3)	20:26			21:31	22:22
13	08:58		10:30 (2)		08:00		08:34 (5)	06:47		07:20 (4)	06:21			05:06	04:23
	16:05	24	10:54 (2)		17:15	17	08:51 (5)	18:19	60	08:55 (3)	20:28			21:34	22:23
14	08:57		10:30 (2)		07:58		08:32 (5)	06:44		07:18 (4)	06:18			05:04	04:22
	16:07	23	10:53 (2)		17:17	20	08:52 (5)	18:22	63	08:55 (3)	20:30			21:36	22:24
15	08:56		10:32 (2)		07:56		08:32 (5)	06:41		07:16 (4)	06:15			05:02	04:22
	16:09	22	10:54 (2)		17:19	22	08:54 (5)	18:24	65	08:54 (3)	20:32			21:38	22:25
16	08:55		10:32 (2)		07:53		08:31 (5)	06:39		07:15 (4)	06:13			05:00	04:21
	16:11	21	10:53 (2)		17:22	23	08:54 (5)	18:26	66	08:53 (3)	20:34			21:40	22:25
17	08:53		10:33 (2)		07:51		08:31 (5)	06:36		07:14 (4)	06:10			04:58	04:21
	16:13	19	10:52 (2)		17:24	24	08:55 (5)	18:28	65	08:51 (3)	20:37			21:42	22:26
18	08:52		10:35 (2)		07:48		08:30 (5)	06:33		07:13 (4)	06:07			04:56	04:21
	16:15	17	10:52 (2)		17:26	25	08:55 (5)	18:30	64	08:50 (3)	20:39			21:44	22:27
19	08:50		10:37 (2)		07:46		08:29 (5)	06:30		07:12 (4)	06:05			04:54	04:21
	16:17	14	10:51 (2)		17:29	26	08:55 (5)	18:33	62	08:48 (3)	20:41			21:46	22:27
20	08:49		10:38 (2)		07:43		08:30 (5)	06:28		07:12 (4)	06:02			04:52	04:21
	16:19	12	10:50 (2)		17:31	26	08:56 (5)	18:35	59	08:46 (3)	20:43			21:48	22:27
21	08:47		10:41 (2)		07:41		08:30 (5)	06:25		07:11 (4)	05:59			04:50	04:21
	16:21	6	10:47 (2)		17:34	25	08:55 (5)	18:37	57	08:44 (3)	20:45			21:50	22:28
22	08:46				07:38		08:30 (5)	06:22		07:11 (4)	05:57			04:48	04:21
	16:23				17:36	24	08:54 (5)	18:39	51	08:41 (3)	20:48			21:52	22:28
23	08:44				07:35		08:30 (5)	06:19		07:11 (4)	05:54			04:47	04:22
	16:26				17:38	23	08:53 (5)	18:42	41	08:36 (3)	20:50			21:53	22:28
24	08:42				07:33		08:27 (3)	06:16		07:11 (4)	05:52			04:45	04:22
	16:28				17:41	26	08:53 (5)	18:44	27	07:38 (4)	20:52			21:55	22:28
25	08:41				07:30		08:24 (3)	06:14		07:11 (4)	05:49			04:43	04:22
	16:30				17:43	28	08:52 (5)	18:46	26	07:37 (4)	20:54			21:57	22:28
26	08:39				07:28		08:21 (3)	06:11		07:13 (4)	05:46			04:42	04:23
	16:32				17:45	30	08:51 (3)	18:48	23	07:36 (4)	20:57			21:59	22:28
27	08:37				07:25		08:20 (3)	06:08		06:34 (1)	05:44			04:40	04:23
	16:35				17:47	34	08:54 (3)	18:50	22	07:34 (4)	20:59			22:01	22:28
28	08:35				07:22		08:19 (3)	06:05		06:31 (1)	05:41			04:39	04:24
	16:37				17:50	36	08:55 (3)	18:53	24	07:32 (4)	21:01			22:02	22:27
29	08:33							07:02		07:28 (1)	05:39			04:37	04:25
	16:39							19:55	23	08:29 (4)	21:03			22:04	22:27
30	08:31							07:00		07:26 (1)	05:36			04:36	04:25
	16:42							19:57	15	07:41 (1)	21:05			22:06	22:27
31	08:29							06:57		07:23 (1)				04:34	
	16:44							19:59	18	07:41 (1)				22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		471			432			1370			129			
Sun reduction		0.13			0.22			0.37			0.46			
Oper. time red.		0.93			0.93			0.93			0.93			
Wind dir. red.		0.59			0.62			0.62			0.65			
Total reduction		0.07			0.13			0.21			0.28			
Total, real		34			55			287			36			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BG - Kalnmalas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September			October		November			December		
1	04:26	05:15	06:21			07:25		08:01 (4)	07:34			08:39		10:11 (2)
	22:26	21:42	20:24			19:00	58	09:35 (3)	16:38			15:43	25	10:36 (2)
2	04:27	05:17	06:23			07:27		08:49 (3)	07:36			08:41		10:11 (2)
	22:26	21:39	20:21			18:57	46	09:35 (3)	16:36			15:42	25	10:36 (2)
3	04:28	05:19	06:25			07:29		08:49 (3)	07:38			08:43		10:11 (2)
	22:25	21:37	20:18			18:54	46	09:35 (3)	16:34			15:41	26	10:37 (2)
4	04:29	05:22	06:27		07:22 (1)	07:31		08:49 (3)	07:41			08:44		10:11 (2)
	22:24	21:35	20:15	7	07:29 (1)	18:51	46	09:35 (3)	16:31			15:41	26	10:37 (2)
5	04:30	05:24	06:30		07:19 (1)	07:33		08:48 (3)	07:43			08:46		10:12 (2)
	22:24	21:33	20:13	13	07:32 (1)	18:49	47	09:35 (3)	16:29			15:40	26	10:38 (2)
6	04:31	05:26	06:32		07:17 (1)	07:35		08:48 (3)	07:45			08:48		10:11 (2)
	22:23	21:30	20:10	16	07:33 (1)	18:46	46	09:34 (3)	16:27			15:39	27	10:38 (2)
7	04:32	05:28	06:34		07:16 (1)	07:38		08:49 (3)	07:48			08:49		10:12 (2)
	22:22	21:28	20:07	17	07:33 (1)	18:43	45	09:34 (3)	16:24			15:38	26	10:38 (2)
8	04:34	05:30	06:36		07:15 (1)	07:40		08:49 (3)	07:50			08:51		10:12 (2)
	22:21	21:26	20:04	19	07:34 (1)	18:40	44	09:33 (3)	16:22			15:38	27	10:39 (2)
9	04:35	05:32	06:38		07:14 (1)	07:42		08:48 (3)	07:52			08:52		10:13 (2)
	22:20	21:23	20:01	20	07:34 (1)	18:38	44	09:32 (3)	16:20			15:37	27	10:40 (2)
10	04:36	05:34	06:40		07:14 (1)	07:44		08:49 (3)	07:55			08:54		10:13 (2)
	22:19	21:21	19:59	19	07:33 (1)	18:35	42	09:31 (3)	16:18			15:36	27	10:40 (2)
11	04:38	05:36	06:42		07:13 (1)	07:46		08:50 (3)	07:57			08:55		10:14 (2)
	22:18	21:18	19:56	20	07:33 (1)	18:32	41	09:31 (3)	16:16			15:36	27	10:41 (2)
12	04:39	05:38	06:44		07:14 (1)	07:49		08:50 (3)	07:59			08:56		10:14 (2)
	22:17	21:16	19:53	18	07:32 (1)	18:29	39	09:29 (3)	16:14			15:36	27	10:41 (2)
13	04:41	05:41	06:46		07:16 (1)	07:51		08:50 (3)	08:01			08:58		10:14 (2)
	22:15	21:14	19:50	15	07:31 (1)	18:27	38	09:28 (3)	16:12			15:35	27	10:41 (2)
14	04:42	05:43	06:49		07:18 (1)	07:53		08:52 (3)	08:04			08:59		10:15 (2)
	22:14	21:11	19:47	23	08:19 (4)	18:24	35	09:27 (3)	16:10			15:35	27	10:42 (2)
15	04:44	05:45	06:51		07:20 (1)	07:55		08:53 (3)	08:06			09:00		10:16 (2)
	22:13	21:09	19:45	25	08:21 (4)	18:21	32	09:25 (3)	16:08			15:35	26	10:42 (2)
16	04:45	05:47	06:53		07:22 (1)	07:57		08:54 (3)	08:08			09:01		10:16 (2)
	22:11	21:06	19:42	24	08:23 (4)	18:19	29	09:23 (3)	16:06			15:35	27	10:43 (2)
17	04:47	05:49	06:55		08:01 (4)	08:00		08:57 (3)	08:10			09:02		10:17 (2)
	22:10	21:03	19:39	23	08:24 (4)	18:16	27	09:24 (5)	16:04			15:35	26	10:43 (2)
18	04:49	05:51	06:57		08:00 (4)	08:02		08:59 (3)	08:13			09:03		10:17 (2)
	22:08	21:01	19:36	25	08:25 (4)	18:13	25	09:24 (5)	16:02			15:35	27	10:44 (2)
19	04:50	05:53	06:59		07:59 (4)	08:04		09:01 (5)	08:15			09:03		10:17 (2)
	22:06	20:58	19:33	26	08:25 (4)	18:11	24	09:25 (5)	16:01			15:36	26	10:43 (2)
20	04:52	05:55	07:01		07:58 (4)	08:06		09:01 (5)	08:17			09:04		10:18 (2)
	22:05	20:56	19:30	38	09:21 (3)	18:08	25	09:26 (5)	15:59			15:36	26	10:44 (2)
21	04:54	05:58	07:03		07:57 (4)	08:09		09:00 (5)	08:19		10:17 (2)	09:05		10:19 (2)
	22:03	20:53	19:28	48	09:25 (3)	18:06	25	09:25 (5)	15:57	6	10:23 (2)	15:36	26	10:45 (2)
22	04:56	06:00	07:05		07:56 (4)	08:11		09:00 (5)	08:21		10:14 (2)	09:05		10:19 (2)
	22:01	20:51	19:25	54	09:28 (3)	18:03	26	09:26 (5)	15:56	12	10:26 (2)	15:37	26	10:45 (2)
23	04:58	06:02	07:08		07:56 (4)	08:13		09:00 (5)	08:23		10:14 (2)	09:06		10:20 (2)
	22:00	20:48	19:22	59	09:30 (3)	18:00	25	09:25 (5)	15:54	14	10:28 (2)	15:37	26	10:46 (2)
24	05:00	06:04	07:10		07:55 (4)	08:15		09:00 (5)	08:25		10:12 (2)	09:06		10:20 (2)
	21:58	20:45	19:19	62	09:31 (3)	17:58	25	09:25 (5)	15:53	17	10:29 (2)	15:38	26	10:46 (2)
25	05:01	06:06	07:12		07:55 (4)	07:18		08:00 (5)	08:27		10:11 (2)	09:07		10:20 (2)
	21:56	20:43	19:16	64	09:32 (3)	16:55	24	08:24 (5)	15:51	19	10:30 (2)	15:38	27	10:47 (2)
26	05:03	06:08	07:14		07:55 (4)	07:20		08:01 (5)	08:30		10:12 (2)	09:07		10:21 (2)
	21:54	20:40	19:14	65	09:33 (3)	16:53	23	08:24 (5)	15:50	20	10:32 (2)	15:39	26	10:47 (2)
27	05:05	06:10	07:16		07:56 (4)	07:22		08:01 (5)	08:32		10:11 (2)	09:07		10:21 (2)
	21:52	20:37	19:11	66	09:34 (3)	16:50	22	08:23 (5)	15:48	22	10:33 (2)	15:40	27	10:48 (2)
28	05:07	06:13	07:18		07:57 (4)	07:25		08:03 (5)	08:33		10:10 (2)	09:07		10:22 (2)
	21:50	20:34	19:08	66	09:35 (3)	16:48	19	08:22 (5)	15:47	23	10:33 (2)	15:41	26	10:48 (2)
29	05:09	06:15	07:20		07:58 (4)	07:27		08:04 (5)	08:35		10:10 (2)	09:07		10:22 (2)
	21:48	20:32	19:05	64	09:35 (3)	16:45	16	08:20 (5)	15:46	24	10:34 (2)	15:42	27	10:49 (2)
30	05:11	06:17	07:23		07:59 (4)	07:29		08:06 (5)	08:37		10:11 (2)	09:07		10:23 (2)
	21:46	20:29	19:02	62	09:35 (3)	16:43	13	08:19 (5)	15:45	24	10:35 (2)	15:43	27	10:50 (2)
31	05:13	06:19				07:31		08:09 (5)				09:07		10:23 (2)
	21:44	20:26				16:41	6	08:15 (5)				15:44	26	10:49 (2)
Potential sun hours	538	474	386			321			241			207		
Total, worst case				958			1003			181			818	
Sun reduction				0.43			0.31			0.15			0.13	
Oper. time red.				0.93			0.93			0.93			0.93	
Wind dir. red.				0.62			0.62			0.59			0.59	
Total reduction				0.25			0.18			0.08			0.07	
Total, real				238			176			15			57	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BH - Kalnrujas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:48	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BI - Kardes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April		May		June	July	August		September		October	November	December
1	09:06	08:27	07:19	06:54		05:34		18:35 (8)	04:33	04:26	05:15		06:21	18:36 (8)	07:24	07:33	08:39
	15:45	16:46	17:52	20:01		21:07	42	19:17 (8)	22:08	22:26	21:41		20:23	46 19:22 (8)	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	18:58 (8)	05:31		18:36 (8)	04:32	04:27	05:17		06:23	18:36 (8)	07:26	07:36	08:41
	15:47	16:48	17:54	20:03	9 19:07 (8)	21:09	40	19:16 (8)	22:10	22:25	21:39		20:20	45 19:21 (8)	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	18:52 (8)	05:29		18:37 (8)	04:30	04:28	05:19	19:01 (8)	06:25	18:37 (8)	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	20 19:12 (8)	21:12	38	19:15 (8)	22:11	22:25	21:37	10 19:11 (8)	20:18	43 19:20 (8)	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	18:48 (8)	05:26		18:38 (8)	04:29	04:29	05:21	18:57 (8)	06:27	18:38 (8)	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	26 19:14 (8)	21:14	36	19:14 (8)	22:13	22:24	21:34	18 19:15 (8)	20:15	40 19:18 (8)	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	18:46 (8)	05:24		18:40 (8)	04:28	04:30	05:23	18:54 (8)	06:29	18:39 (8)	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	31 19:17 (8)	21:16	33	19:13 (8)	22:14	22:23	21:32	23 19:17 (8)	20:12	38 19:17 (8)	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	18:44 (8)	05:22		18:42 (8)	04:27	04:31	05:25	18:52 (8)	06:31	18:40 (8)	07:35	07:45	08:47
	15:52	16:58	18:03	20:12	34 19:18 (8)	21:18	29	19:11 (8)	22:15	22:22	21:30	27 19:19 (8)	20:09	35 19:15 (8)	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	18:42 (8)	05:19		18:43 (8)	04:26	04:32	05:28	18:50 (8)	06:34	18:41 (8)	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	38 19:20 (8)	21:20	25	19:08 (8)	22:17	22:22	21:28	31 19:21 (8)	20:07	31 19:12 (8)	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	18:40 (8)	05:17		18:45 (8)	04:26	04:33	05:30	18:49 (8)	06:36	18:43 (8)	07:39	07:50	08:50
	15:56	17:02	18:08	20:16	40 19:20 (8)	21:22	21	19:06 (8)	22:18	22:21	21:25	33 19:22 (8)	20:04	27 19:10 (8)	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	18:39 (8)	05:15		18:48 (8)	04:25	04:35	05:32	18:47 (8)	06:38	18:46 (8)	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	43 19:22 (8)	21:25	15	19:03 (8)	22:19	22:20	21:23	36 19:23 (8)	20:01	20 19:06 (8)	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	18:37 (8)	05:13		18:55 (8)	04:24	04:36	05:34	18:46 (8)	06:40	18:51 (8)	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	45 19:22 (8)	21:27	2	18:57 (8)	22:20	22:18	21:20	38 19:24 (8)	19:58	10 19:01 (8)	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	18:36 (8)	05:10			04:23	04:37	05:36	18:45 (8)	06:42		07:46	07:56	08:55
	16:01	17:10	18:15	20:23	47 19:23 (8)	21:29			22:21	22:17	21:18	40 19:25 (8)	19:55		18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	18:35 (8)	05:08			04:23	04:39	05:38	18:43 (8)	06:44		07:48	07:59	08:56
	16:03	17:12	18:17	20:25	49 19:24 (8)	21:31			22:22	22:16	21:16	43 19:26 (8)	19:53		18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	18:34 (8)	05:06			04:22	04:40	05:40	18:42 (8)	06:46		07:50	08:01	08:57
	16:05	17:14	18:19	20:27	50 19:24 (8)	21:33			22:23	22:15	21:13	45 19:27 (8)	19:50		18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	18:33 (8)	05:04			04:22	04:42	05:42	18:41 (8)	06:48		07:53	08:03	08:58
	16:07	17:17	18:21	20:30	50 19:23 (8)	21:35			22:24	22:13	21:11	46 19:27 (8)	19:47		18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	18:33 (8)	05:02			04:22	04:43	05:45	18:41 (8)	06:50		07:55	08:05	08:59
	16:09	17:19	18:23	20:32	51 19:24 (8)	21:37			22:24	22:12	21:08	47 19:28 (8)	19:44		18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	18:32 (8)	05:00			04:21	04:45	05:47	18:40 (8)	06:52		07:57	08:08	09:00
	16:11	17:21	18:26	20:34	52 19:24 (8)	21:39			22:25	22:11	21:06	48 19:28 (8)	19:41		18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	18:32 (8)	04:58			04:21	04:47	05:49	18:39 (8)	06:55		07:59	08:10	09:01
	16:13	17:24	18:28	20:36	53 19:25 (8)	21:41			22:26	22:09	21:03	49 19:28 (8)	19:39		18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	18:31 (8)	04:56			04:21	04:48	05:51	18:37 (8)	06:57		08:02	08:12	09:02
	16:15	17:26	18:30	20:38	53 19:24 (8)	21:43			22:26	22:08	21:01	51 19:28 (8)	19:36		18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	18:32 (8)	04:54			04:21	04:50	05:53	18:37 (8)	06:59		08:04	08:14	09:03
	16:17	17:29	18:32	20:41	52 19:24 (8)	21:45			22:26	22:06	20:58	51 19:28 (8)	19:33		18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	18:31 (8)	04:52			04:21	04:52	05:55	18:36 (8)	07:01		08:06	08:16	09:04
	16:19	17:31	18:35	20:43	53 19:24 (8)	21:47			22:27	22:04	20:55	52 19:28 (8)	19:30		18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	18:31 (8)	04:50			04:21	04:54	05:57	18:35 (8)	07:03		08:08	08:19	09:04
	16:21	17:33	18:37	20:45	53 19:24 (8)	21:49			22:27	22:03	20:53	53 19:28 (8)	19:27		18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	18:31 (8)	04:48			04:21	04:56	05:59	18:35 (8)	07:05		08:11	08:21	09:05
	16:23	17:36	18:39	20:47	52 19:23 (8)	21:51			22:27	22:01	20:50	53 19:28 (8)	19:25		18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	18:31 (8)	04:46			04:21	04:57	06:02	18:35 (8)	07:07		08:13	08:23	09:05
	16:25	17:38	18:41	20:50	52 19:23 (8)	21:53			22:27	21:59	20:47	52 19:27 (8)	19:22		18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	18:31 (8)	04:45			04:22	04:59	06:04	18:34 (8)	07:09		08:15	08:25	09:06
	16:28	17:40	18:43	20:52	51 19:22 (8)	21:55			22:28	21:57	20:45	53 19:27 (8)	19:19		17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	18:32 (8)	04:43			04:22	05:01	06:06	18:34 (8)	07:12		07:17	08:27	09:06
	16:30	17:43	18:46	20:54	50 19:22 (8)	21:57			22:27	21:55	20:42	53 19:27 (8)	19:16		16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	18:32 (8)	04:41			04:23	05:03	06:08	18:34 (8)	07:14		07:20	08:29	09:06
	16:32	17:45	18:48	20:56	49 19:21 (8)	21:59			22:27	21:53	20:39	52 19:26 (8)	19:13		16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	18:32 (8)	04:40			04:23	05:05	06:10	18:34 (8)	07:16		07:22	08:31	09:07
	16:34	17:47	18:50	20:58	49 19:21 (8)	22:00			22:27	21:51	20:37	52 19:26 (8)	19:10		16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	18:33 (8)	04:38			04:24	05:07	06:12	18:35 (8)	07:18		07:24	08:33	09:07
	16:37	17:49	18:52	21:01	47 19:20 (8)	22:02			22:27	21:49	20:34	51 19:26 (8)	19:08		16:48	15:47	15:41
29	08:33		07:02	05:39	18:33 (8)	04:37			04:24	05:09	06:14	18:35 (8)	07:20		07:26	08:35	09:07
	16:39		19:54	21:03	46 19:19 (8)	22:04			22:27	21:47	20:31	50 19:25 (8)	19:05		16:45	15:46	15:42
30	08:31		06:59	05:36	18:34 (8)	04:36			04:25	05:11	06:17	18:35 (8)	07:22		07:29	08:37	09:07
	16:41		19:57	21:05	44 19:18 (8)	22:05			22:26	21:45	20:29	49 19:24 (8)	19:02		16:43	15:44	15:43
31	08:29		06:56			04:34				05:13	06:19	18:35 (8)			07:31		09:06
	16:44		19:59			22:07				21:43	20:26	49 19:24 (8)			16:40		15:44
Potential sun hours	227	262	365	429		515		539	538	474		386		321	241	207
Total, worst case					1289		281				1255		335				
Sun reduction					0.46		0.58				0.55		0.43				
Oper. time red.					0.93		0.93				0.93		0.93				
Wind dir. red.					0.65		0.65				0.65		0.65				
Total reduction					0.28		0.35				0.33		0.26				
Total, real					355		98				410		86				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BJ - Karogi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BK - Kraukli A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BL - Kraukli B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BM - Krivas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		09:58 (13)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34			08:39		09:42 (13)
	15:45	22	10:20 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	26	10:08 (13)
2	09:06		09:58 (13)	08:25	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36			08:41		09:42 (13)
	15:47	22	10:20 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	26	10:08 (13)
3	09:06		09:58 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38			08:43		09:43 (13)
	15:48	22	10:20 (13)	16:51	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	25	10:08 (13)
4	09:05		09:58 (13)	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:43 (13)
	15:49	23	10:21 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	26	10:09 (13)
5	09:05		09:59 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:44 (13)
	15:51	23	10:22 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	25	10:09 (13)
6	09:04		09:59 (13)	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45			08:48		09:44 (13)
	15:52	24	10:23 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	24	10:08 (13)
7	09:04		09:59 (13)	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:47			08:49		09:45 (13)
	15:54	25	10:24 (13)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	24	10:09 (13)
8	09:03		09:58 (13)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:46 (13)
	15:56	26	10:24 (13)	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	23	10:09 (13)
9	09:02		09:59 (13)	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52			08:52		09:47 (13)
	15:57	25	10:24 (13)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	23	10:10 (13)
10	09:01		09:59 (13)	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54			08:54		09:47 (13)
	15:59	26	10:25 (13)	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18			15:36	22	10:09 (13)
11	09:00		10:00 (13)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57			08:55		09:48 (13)
	16:01	26	10:26 (13)	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16			15:36	22	10:10 (13)
12	08:59		09:59 (13)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59			08:56		09:48 (13)
	16:03	27	10:26 (13)	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14			15:35	22	10:10 (13)
13	08:58		10:00 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		09:46 (13)	08:58		09:49 (13)
	16:04	27	10:27 (13)	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12	6	09:52 (13)	15:35	20	10:09 (13)
14	08:57		10:00 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		09:44 (13)	08:59		09:50 (13)
	16:06	27	10:27 (13)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	12	09:56 (13)	15:35	20	10:10 (13)
15	08:56		10:01 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06		09:43 (13)	09:00		09:51 (13)
	16:08	27	10:28 (13)	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15	09:58 (13)	15:35	19	10:10 (13)
16	08:54		10:01 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:41 (13)	09:01		09:51 (13)
	16:10	27	10:28 (13)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	18	09:59 (13)	15:35	20	10:11 (13)
17	08:53		10:01 (13)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10		09:41 (13)	09:02		09:52 (13)
	16:12	27	10:28 (13)	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	20	10:01 (13)	15:35	19	10:11 (13)
18	08:52		10:02 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		09:40 (13)	09:03		09:53 (13)
	16:14	27	10:29 (13)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	22	10:02 (13)	15:35	18	10:11 (13)
19	08:50		10:02 (13)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:40 (13)	09:03		09:53 (13)
	16:17	27	10:29 (13)	17:29	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	23	10:03 (13)	15:35	18	10:11 (13)
20	08:49		10:03 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:39 (13)	09:04		09:53 (13)
	16:19	26	10:29 (13)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	24	10:03 (13)	15:35	19	10:12 (13)
21	08:47		10:03 (13)	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		09:39 (13)	09:05		09:54 (13)
	16:21	26	10:29 (13)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	26	10:05 (13)	15:36	18	10:12 (13)
22	08:46		10:04 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:39 (13)	09:05		09:54 (13)
	16:23	24	10:28 (13)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	26	10:05 (13)	15:36	18	10:12 (13)
23	08:44		10:05 (13)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:38 (13)	09:06		09:55 (13)
	16:25	23	10:28 (13)	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	27	10:05 (13)	15:37	19	10:14 (13)
24	08:42		10:06 (13)	07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		09:39 (13)	09:06		09:55 (13)
	16:27	22	10:28 (13)	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	27	10:06 (13)	15:37	19	10:14 (13)
25	08:41		10:07 (13)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:39 (13)	09:07		09:56 (13)
	16:30	20	10:27 (13)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	27	10:06 (13)	15:38	18	10:14 (13)
26	08:39		10:08 (13)	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:40 (13)	09:07		09:56 (13)
	16:32	18	10:26 (13)	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	27	10:07 (13)	15:39	19	10:15 (13)
27	08:37		10:10 (13)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:40 (13)	09:07		09:56 (13)
	16:34	15	10:25 (13)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	27	10:07 (13)	15:40	19	10:15 (13)
28	08:35		10:12 (13)	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:40 (13)	09:07		09:57 (13)
	16:37	12	10:24 (13)	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	27	10:07 (13)	15:41	19	10:16 (13)
29	08:33		10:15 (13)		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:40 (13)	09:07		09:57 (13)
	16:39	5	10:20 (13)		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	27	10:07 (13)	15:42	20	10:17 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:41 (13)	09:07		09:58 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	27	10:08 (13)	15:43	20	10:18 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31				09:07		09:57 (13)
	16:43				19:59		22:07		21:44	20:26		16:40				15:44	21	10:18 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241			207		
Total, worst case		671												408			651	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.62												0.62			0.62	
Total reduction		0.07												0.09			0.07	
Total, real		50												36			47	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BN - Krusteici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May			June		
1	09:07			08:27		09:40 (2)	07:20			06:54			05:34		06:03 (1)	04:33		06:31 (3)
	15:46			16:46	37	10:17 (2)	17:52			20:01			21:08	48	07:15 (3)	22:09	48	07:19 (3)
2	09:06			08:25		09:39 (2)	07:17			06:51			05:31		06:01 (1)	04:32		06:31 (3)
	15:47			16:49	38	10:17 (2)	17:54			20:04			21:10	52	07:16 (3)	22:10	48	07:19 (3)
3	09:06			08:23		09:40 (2)	07:14			06:48			05:29		05:58 (1)	04:31		06:31 (3)
	15:48			16:51	37	10:17 (2)	17:57			20:06			21:12	57	07:16 (3)	22:12	48	07:19 (3)
4	09:05			08:21		09:40 (2)	07:12			06:46			05:27		05:56 (1)	04:30		06:32 (3)
	15:50			16:53	38	10:18 (2)	17:59			20:08			21:14	61	07:17 (3)	22:13	46	07:18 (3)
5	09:05			08:19		09:40 (2)	07:09			06:43			05:24		05:54 (1)	04:29		06:32 (3)
	15:51			16:56	37	10:17 (2)	18:01			20:10			21:16	65	07:18 (3)	22:15	46	07:18 (3)
6	09:04			08:17		09:40 (2)	07:06			06:40			05:22		05:53 (1)	04:28		06:32 (3)
	15:53			16:58	38	10:18 (2)	18:04			20:12			21:19	67	07:18 (3)	22:16	46	07:18 (3)
7	09:04			08:14		09:40 (2)	07:04			06:37			05:20		05:53 (1)	04:27		06:33 (3)
	15:54			17:00	37	10:17 (2)	18:06			20:15			21:21	68	07:19 (3)	22:17	45	07:18 (3)
8	09:03			08:12		09:41 (2)	07:01			06:35			05:17		05:53 (1)	04:26		06:33 (3)
	15:56			17:03	36	10:17 (2)	18:08			20:17			21:23	69	07:19 (3)	22:18	45	07:18 (3)
9	09:02			08:10		09:41 (2)	06:58			06:32			05:15		05:53 (1)	04:25		06:33 (3)
	15:58			17:05	36	10:17 (2)	18:10			20:19			21:25	69	07:20 (3)	22:19	44	07:17 (3)
10	09:01			08:08		09:42 (2)	06:55			06:29			05:13		05:54 (1)	04:24		06:34 (3)
	15:59			17:08	35	10:17 (2)	18:13			20:21			21:27	69	07:20 (3)	22:20	44	07:18 (3)
11	09:00			08:05		09:42 (2)	06:53			06:26			05:11		05:54 (1)	04:24		06:34 (3)
	16:01			17:10	33	10:15 (2)	18:15			20:23			21:29	68	07:20 (3)	22:21	43	07:17 (3)
12	08:59			08:03		09:44 (2)	06:50			06:24			05:08		05:55 (1)	04:23		06:35 (3)
	16:03			17:12	31	10:15 (2)	18:17			20:26			21:31	66	07:20 (3)	22:22	42	07:17 (3)
13	08:58			08:00		09:44 (2)	06:47			06:21			05:06		05:56 (1)	04:23		06:36 (3)
	16:05			17:15	30	10:14 (2)	18:19			20:28			21:34	65	07:20 (3)	22:23	42	07:18 (3)
14	08:57			07:58		09:45 (2)	06:44		07:18 (5)	06:18			05:04		05:57 (1)	04:22		06:35 (3)
	16:07			17:17	27	10:12 (2)	18:22	13	07:31 (5)	20:30			21:36	63	07:20 (3)	22:24	42	07:17 (3)
15	08:56			07:56		09:47 (2)	06:41		07:15 (5)	06:15			05:02		06:00 (1)	04:22		06:36 (3)
	16:09			17:19	24	10:11 (2)	18:24	18	07:33 (5)	20:32			21:38	57	07:20 (3)	22:25	41	07:17 (3)
16	08:55			07:53		09:49 (2)	06:39		07:13 (5)	06:13			05:00		06:26 (3)	04:22		06:36 (3)
	16:11			17:22	19	10:08 (2)	18:26	21	07:34 (5)	20:34			21:40	54	07:20 (3)	22:25	41	07:17 (3)
17	08:53			07:51		09:53 (2)	06:36		07:11 (5)	06:10		06:44 (4)	04:58		06:26 (3)	04:21		06:37 (3)
	16:13			17:24	12	10:05 (2)	18:28	24	07:35 (5)	20:37	12	06:56 (4)	21:42	54	07:20 (3)	22:26	41	07:18 (3)
18	08:52		09:50 (2)	07:48			06:33		07:10 (5)	06:07		06:41 (4)	04:56		06:27 (3)	04:21		06:37 (3)
	16:15	10	10:00 (2)	17:26			18:30	26	07:36 (5)	20:39	17	06:58 (4)	21:44	54	07:21 (3)	22:26	41	07:18 (3)
19	08:50		09:47 (2)	07:46			06:30		07:08 (5)	06:05		06:39 (4)	04:54		06:27 (3)	04:21		06:37 (3)
	16:17	16	10:03 (2)	17:29			18:33	28	07:36 (5)	20:41	21	07:00 (4)	21:46	53	07:20 (3)	22:27	41	07:18 (3)
20	08:49		09:46 (2)	07:43			06:28		07:08 (5)	06:02		06:37 (4)	04:52		06:26 (3)	04:21		06:37 (3)
	16:19	19	10:05 (2)	17:31			18:35	29	07:37 (5)	20:43	24	07:01 (4)	21:48	54	07:20 (3)	22:27	41	07:18 (3)
21	08:47		09:44 (2)	07:41			06:25		07:08 (5)	05:59		06:37 (4)	04:50		06:27 (3)	04:21		06:37 (3)
	16:21	22	10:06 (2)	17:34			18:37	29	07:37 (5)	20:45	25	07:02 (4)	21:50	53	07:20 (3)	22:28	41	07:18 (3)
22	08:46		09:43 (2)	07:38			06:22		07:07 (5)	05:57		06:35 (4)	04:48		06:27 (3)	04:21		06:37 (3)
	16:23	25	10:08 (2)	17:36			18:39	29	07:36 (5)	20:48	27	07:02 (4)	21:52	53	07:20 (3)	22:28	41	07:18 (3)
23	08:44		09:43 (2)	07:35			06:19		07:06 (5)	05:54		06:35 (4)	04:47		06:27 (3)	04:22		06:38 (3)
	16:26	26	10:09 (2)	17:38			18:42	30	07:36 (5)	20:50	28	07:03 (4)	21:53	53	07:20 (3)	22:28	41	07:19 (3)
24	08:42		09:42 (2)	07:33			06:16		07:06 (5)	05:52		06:34 (4)	04:45		06:27 (3)	04:22		06:38 (3)
	16:28	29	10:11 (2)	17:41			18:44	29	07:35 (5)	20:52	29	07:03 (4)	21:55	53	07:20 (3)	22:28	41	07:19 (3)
25	08:41		09:41 (2)	07:30			06:14		07:06 (5)	05:49		06:34 (4)	04:43		06:28 (3)	04:22		06:39 (3)
	16:30	31	10:12 (2)	17:43			18:46	28	07:34 (5)	20:54	29	07:03 (4)	21:57	52	07:20 (3)	22:28	41	07:20 (3)
26	08:39		09:41 (2)	07:28			06:11		07:07 (5)	05:46		06:34 (4)	04:42		06:28 (3)	04:23		06:38 (3)
	16:32	32	10:13 (2)	17:45			18:48	27	07:34 (5)	20:57	32	07:06 (3)	21:59	52	07:20 (3)	22:28	41	07:19 (3)
27	08:37		09:41 (2)	07:25			06:08		07:07 (5)	05:44		06:33 (4)	04:40		06:28 (3)	04:23		06:39 (3)
	16:35	33	10:14 (2)	17:47			18:50	26	07:33 (5)	20:59	35	07:08 (3)	22:01	51	07:19 (3)	22:28	41	07:20 (3)
28	08:35		09:41 (2)	07:22			06:05		07:08 (5)	05:41		06:33 (4)	04:39		06:29 (3)	04:24		06:38 (3)
	16:37	34	10:15 (2)	17:50			18:53	23	07:31 (5)	21:01	38	07:11 (3)	22:02	50	07:19 (3)	22:27	42	07:20 (3)
29	08:33		09:40 (2)				07:02		08:08 (5)	05:39		06:33 (4)	04:37		06:29 (3)	04:25		06:39 (3)
	16:39	35	10:15 (2)				19:55	21	08:29 (5)	21:03	39	07:12 (3)	22:04	50	07:19 (3)	22:27	42	07:21 (3)
30	08:31		09:40 (2)				07:00		08:11 (5)	05:36		06:05 (1)	04:36		06:30 (3)	04:25		06:39 (3)
	16:42	36	10:16 (2)				19:57	17	08:28 (5)	21:05	43	07:13 (3)	22:06	49	07:19 (3)	22:27	43	07:22 (3)
31	08:29		09:40 (2)				06:57		08:13 (5)				04:34		06:30 (3)			
	16:44	36	10:16 (2)				19:59	11	08:24 (5)				22:07	49	07:19 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		384			545			429			399			1778			1289	
Sun reduction		0.13			0.22			0.37			0.46			0.58			0.53	
Oper. time red.		0.93			0.93			0.93			0.93			0.93			0.93	
Wind dir. red.		0.63			0.63			0.62			0.64			0.64			0.64	
Total reduction		0.08			0.13			0.21			0.27			0.34			0.32	
Total, real		29			70			91			110			610			407	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BN - Krusteici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July		August		September		October		November		December
1	04:26	06:38 (3)	05:15	06:05 (1)	06:21		07:25		07:34	09:12 (2)	08:39
	22:26	43 07:21 (3)	21:41	68 07:31 (3)	20:24		19:00		16:38	34 09:46 (2)	15:44
2	04:27	06:39 (3)	05:17	06:04 (1)	06:23		07:27		07:36	09:10 (2)	08:41
	22:26	43 07:22 (3)	21:39	69 07:30 (3)	20:21		18:57		16:36	36 09:46 (2)	15:42
3	04:28	06:39 (3)	05:19	06:04 (1)	06:25		07:29		07:38	09:11 (2)	08:43
	22:25	43 07:22 (3)	21:37	68 07:30 (3)	20:18		18:54		16:34	36 09:47 (2)	15:41
4	04:29	06:39 (3)	05:22	06:03 (1)	06:27		07:31		07:41	09:10 (2)	08:44
	22:24	44 07:23 (3)	21:35	69 07:29 (3)	20:15		18:51		16:31	37 09:47 (2)	15:41
5	04:30	06:39 (3)	05:24	06:02 (1)	06:30		07:33		07:43	09:10 (2)	08:46
	22:24	44 07:23 (3)	21:33	68 07:28 (3)	20:13		18:49		16:29	38 09:48 (2)	15:40
6	04:31	06:39 (3)	05:26	06:02 (1)	06:32		07:35		07:45	09:09 (2)	08:48
	22:23	45 07:24 (3)	21:30	68 07:28 (3)	20:10		18:46		16:27	38 09:47 (2)	15:39
7	04:32	06:38 (3)	05:28	06:02 (1)	06:34		07:38		07:48	09:10 (2)	08:49
	22:22	46 07:24 (3)	21:28	66 07:27 (3)	20:07		18:43		16:25	38 09:48 (2)	15:38
8	04:34	06:38 (3)	05:30	06:04 (1)	06:36		07:40		07:50	09:10 (2)	08:51
	22:21	47 07:25 (3)	21:26	64 07:27 (3)	20:04		18:40		16:22	38 09:48 (2)	15:38
9	04:35	06:38 (3)	05:32	06:06 (1)	06:38		07:42		07:52	09:10 (2)	08:52
	22:20	47 07:25 (3)	21:23	59 07:26 (3)	20:01		18:38		16:20	38 09:48 (2)	15:37
10	04:36	06:39 (3)	05:34	06:08 (1)	06:40		07:44		07:54	09:11 (2)	08:54
	22:19	47 07:26 (3)	21:21	55 07:25 (3)	19:59		18:35		16:18	37 09:48 (2)	15:37
11	04:38	06:38 (3)	05:36	06:10 (1)	06:42		07:46		07:57	09:11 (2)	08:55
	22:18	48 07:26 (3)	21:18	51 07:24 (3)	19:56		18:32		16:16	36 09:47 (2)	15:36
12	04:39	06:38 (3)	05:38	06:12 (1)	06:44	08:05 (5)	07:49		07:59	09:11 (2)	08:56
	22:16	49 07:27 (3)	21:16	47 07:23 (3)	19:53	10 08:15 (5)	18:29		16:14	36 09:47 (2)	15:36
13	04:41	06:37 (3)	05:41	06:14 (1)	06:46	08:01 (5)	07:51		08:01	09:11 (2)	08:58
	22:15	50 07:27 (3)	21:14	42 07:21 (3)	19:50	17 08:18 (5)	18:27		16:12	36 09:47 (2)	15:36
14	04:42	06:38 (3)	05:43	06:41 (4)	06:49	07:59 (5)	07:53		08:04	09:13 (2)	08:59
	22:14	50 07:28 (3)	21:11	39 07:20 (3)	19:47	20 08:19 (5)	18:24		16:10	34 09:47 (2)	15:35
15	04:44	06:37 (3)	05:45	06:40 (4)	06:51	07:57 (5)	07:55		08:06	09:14 (2)	09:00
	22:12	51 07:28 (3)	21:09	38 07:18 (3)	19:45	23 08:20 (5)	18:21		16:08	33 09:47 (2)	15:35
16	04:45	06:38 (3)	05:47	06:40 (4)	06:53	07:56 (5)	07:57		08:08	09:14 (2)	09:01
	22:11	51 07:29 (3)	21:06	35 07:15 (3)	19:42	25 08:21 (5)	18:19		16:06	32 09:46 (2)	15:35
17	04:47	06:37 (3)	05:49	06:40 (4)	06:55	07:56 (5)	08:00		08:10	09:15 (2)	09:02
	22:10	52 07:29 (3)	21:03	32 07:12 (3)	19:39	26 08:22 (5)	18:16		16:04	31 09:46 (2)	15:35
18	04:49	06:38 (3)	05:51	06:40 (4)	06:57	07:55 (5)	08:02		08:13	09:16 (2)	09:03
	22:08	51 07:29 (3)	21:01	30 07:10 (4)	19:36	28 08:23 (5)	18:13		16:02	28 09:44 (2)	15:35
19	04:50	06:37 (3)	05:53	06:40 (4)	06:59	07:54 (5)	08:04		08:15	09:18 (2)	09:03
	22:06	52 07:29 (3)	20:58	29 07:09 (4)	19:33	29 08:23 (5)	18:11		16:01	26 09:44 (2)	15:36
20	04:52	06:37 (3)	05:56	06:41 (4)	07:01	07:53 (5)	08:06		08:17	09:18 (2)	09:04
	22:05	53 07:30 (3)	20:56	27 07:08 (4)	19:30	29 08:22 (5)	18:08		15:59	25 09:43 (2)	15:36
21	04:54	06:38 (3)	05:58	06:41 (4)	07:03	07:53 (5)	08:09		08:19	09:20 (2)	09:05
	22:03	53 07:31 (3)	20:53	27 07:08 (4)	19:28	29 08:22 (5)	18:06		15:57	23 09:43 (2)	15:36
22	04:56	06:37 (3)	06:00	06:41 (4)	07:05	07:52 (5)	08:11		08:21	09:22 (2)	09:05
	22:01	53 07:30 (3)	20:50	25 07:06 (4)	19:25	29 08:21 (5)	18:03		15:56	19 09:41 (2)	15:37
23	04:58	06:37 (3)	06:02	06:42 (4)	07:08	07:52 (5)	08:13		08:23	09:23 (2)	09:06
	21:59	54 07:31 (3)	20:48	23 07:05 (4)	19:22	29 08:21 (5)	18:00		15:54	16 09:39 (2)	15:37
24	05:00	06:37 (3)	06:04	06:43 (4)	07:10	07:52 (5)	08:15		08:25	09:27 (2)	09:06
	21:58	54 07:31 (3)	20:45	21 07:04 (4)	19:19	28 08:20 (5)	17:58		15:53	11 09:38 (2)	15:38
25	05:01	06:37 (3)	06:06	06:45 (4)	07:12	07:52 (5)	07:18	09:21 (2)	08:27		09:07
	21:56	54 07:31 (3)	20:43	17 07:02 (4)	19:16	27 08:19 (5)	16:55	15 09:36 (2)	15:51		15:39
26	05:03	06:37 (3)	06:08	06:47 (4)	07:14	07:53 (5)	07:20	09:19 (2)	08:29		09:07
	21:54	54 07:31 (3)	20:40	12 06:59 (4)	19:14	24 08:17 (5)	16:53	20 09:39 (2)	15:50		15:39
27	05:05	06:37 (3)	06:10		07:16	07:54 (5)	07:22	09:16 (2)	08:31		09:07
	21:52	54 07:31 (3)	20:37		19:11	23 08:17 (5)	16:50	25 09:41 (2)	15:48		15:40
28	05:07	06:38 (3)	06:13		07:18	07:55 (5)	07:25	09:15 (2)	08:33		09:07
	21:50	53 07:31 (3)	20:34		19:08	20 08:15 (5)	16:48	28 09:43 (2)	15:47		15:41
29	05:09	06:09 (1)	06:15		07:20	07:57 (5)	07:27	09:14 (2)	08:35		09:07
	21:48	60 07:31 (3)	20:32		19:05	15 08:12 (5)	16:45	29 09:43 (2)	15:46		15:42
30	05:11	06:07 (1)	06:17		07:23	08:00 (5)	07:29	09:13 (2)	08:37		09:07
	21:46	64 07:31 (3)	20:29		19:02	8 08:08 (5)	16:43	32 09:45 (2)	15:45		15:43
31	05:13	06:06 (1)	06:19				07:31	09:12 (2)			09:07
	21:44	66 07:31 (3)	20:26				16:41	33 09:45 (2)			15:44
Potential sun hours	538		474		386		321		241		207
Total, worst case		1575		1149		439		182		756	
Sun reduction		0.57		0.55		0.43		0.31		0.15	
Oper. time red.		0.93		0.93		0.93		0.93		0.93	
Wind dir. red.		0.64		0.64		0.62		0.63		0.63	
Total reduction		0.34		0.32		0.25		0.18		0.09	
Total, real		529		371		109		33		68	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BO - Krumini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May		June		July		August		September	October	November	December
1	09:07	08:27	07:20	06:54	05:34		04:33		06:03 (2)	04:26		05:15	06:07 (2)	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08		22:09	21	06:24 (2)	22:26		21:41	30 06:37 (2)	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32		04:32		06:04 (2)	04:27		05:18	06:08 (2)	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10		22:10	19	06:23 (2)	22:26		21:39	29 06:37 (2)	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	06:09 (2)	04:31		06:04 (2)	04:28		05:20	06:08 (2)	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	8 06:17 (2)	22:12	18	06:22 (2)	22:25		21:37	28 06:36 (2)	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	06:05 (2)	04:30		06:05 (2)	04:29	06:16 (2)	05:22	06:09 (2)	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	14 06:19 (2)	22:13	17	06:22 (2)	22:24	6 06:22 (2)	21:35	27 06:36 (2)	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	06:03 (2)	04:29		06:06 (2)	04:30	06:15 (2)	05:24	06:09 (2)	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	18 06:21 (2)	22:14	15	06:21 (2)	22:24	9 06:24 (2)	21:33	25 06:34 (2)	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	06:01 (2)	04:28		06:07 (2)	04:31	06:14 (2)	05:26	06:10 (2)	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22 06:23 (2)	22:16	13	06:20 (2)	22:23	11 06:25 (2)	21:30	23 06:33 (2)	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	06:00 (2)	04:27		06:09 (2)	04:33	06:13 (2)	05:28	06:11 (2)	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	24 06:24 (2)	22:17	10	06:19 (2)	22:22	14 06:27 (2)	21:28	21 06:32 (2)	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	05:59 (2)	04:26		06:10 (2)	04:34	06:12 (2)	05:30	06:13 (2)	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	26 06:25 (2)	22:18	8	06:18 (2)	22:21	16 06:28 (2)	21:26	17 06:30 (2)	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	05:59 (2)	04:25		06:12 (2)	04:35	06:11 (2)	05:32	06:15 (2)	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	27 06:26 (2)	22:19	4	06:16 (2)	22:20	17 06:28 (2)	21:23	13 06:28 (2)	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	05:58 (2)	04:24			04:36	06:11 (2)	05:34	06:18 (2)	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	28 06:26 (2)	22:20			22:19	19 06:30 (2)	21:21	6 06:24 (2)	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	05:57 (2)	04:24			04:38	06:11 (2)	05:36		06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	30 06:27 (2)	22:21			22:18	20 06:31 (2)	21:18		19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	05:57 (2)	04:23			04:39	06:10 (2)	05:39		06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	30 06:27 (2)	22:22			22:16	21 06:31 (2)	21:16		19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	05:56 (2)	04:23			04:41	06:10 (2)	05:41		06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	31 06:27 (2)	22:23			22:15	23 06:33 (2)	21:14		19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	05:56 (2)	04:22			04:42	06:09 (2)	05:43		06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	31 06:27 (2)	22:24			22:14	24 06:33 (2)	21:11		19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	05:56 (2)	04:22			04:44	06:08 (2)	05:45		06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	31 06:27 (2)	22:25			22:12	25 06:33 (2)	21:09		19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	05:56 (2)	04:22			04:45	06:08 (2)	05:47		06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	31 06:27 (2)	22:25			22:11	27 06:35 (2)	21:06		19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	05:56 (2)	04:21			04:47	06:08 (2)	05:49		06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	32 06:28 (2)	22:26			22:09	27 06:35 (2)	21:03		19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	05:56 (2)	04:21			04:49	06:08 (2)	05:51		06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	32 06:28 (2)	22:26			22:08	28 06:36 (2)	21:01		19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	05:56 (2)	04:21			04:51	06:07 (2)	05:53		06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	31 06:27 (2)	22:27			22:06	29 06:36 (2)	20:58		19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	05:57 (2)	04:21			04:52	06:07 (2)	05:56		07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	31 06:28 (2)	22:27			22:05	29 06:36 (2)	20:56		19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	05:56 (2)	04:21			04:54	06:07 (2)	05:58		07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	31 06:27 (2)	22:27			22:03	30 06:37 (2)	20:53		19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	05:56 (2)	04:22			04:56	06:06 (2)	06:00		07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	31 06:27 (2)	22:28			22:01	31 06:37 (2)	20:50		19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	05:57 (2)	04:22			04:58	06:07 (2)	06:02		07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	30 06:27 (2)	22:28			21:59	31 06:38 (2)	20:48		19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	05:57 (2)	04:22			05:00	06:07 (2)	06:04		07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	29 06:26 (2)	22:28			21:58	31 06:38 (2)	20:45		19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	05:58 (2)	04:23			05:02	06:06 (2)	06:06		07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	28 06:26 (2)	22:28			21:56	32 06:38 (2)	20:43		19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	05:59 (2)	04:23			05:04	06:06 (2)	06:08		07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	21:59	27 06:26 (2)	22:28			21:54	32 06:38 (2)	20:40		19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	05:59 (2)	04:24			05:05	06:07 (2)	06:11		07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	26 06:25 (2)	22:28			21:52	31 06:38 (2)	20:37		19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	05:59 (2)	04:24			05:07	06:07 (2)	06:13		07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	26 06:25 (2)	22:27			21:50	31 06:38 (2)	20:34		19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	06:00 (2)	04:25			05:09	06:06 (2)	06:15		07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	25 06:25 (2)	22:27			21:48	31 06:37 (2)	20:32		19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	06:01 (2)	04:26			05:11	06:06 (2)	06:17		07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	23 06:24 (2)	22:27			21:46	31 06:37 (2)	20:29		19:02	16:43	15:45	15:43
31	08:29		06:57		04:35	06:02 (2)				05:13	06:07 (2)	06:19			07:31		09:07
	16:44		19:59		22:07	22 06:24 (2)				21:44	30 06:37 (2)	20:26			16:41		15:44
Potential sun hours	227	262	365	429	515		539		538		474		386	321	241	207
Total, worst case					775		125		686		219					
Sun reduction					0.58		0.53		0.57		0.55					
Oper. time red.					0.93		0.93		0.93		0.93					
Wind dir. red.					0.62		0.62		0.62		0.62					
Total reduction					0.33		0.30		0.32		0.31					
Total, real					257		38		222		68					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BP - Kudlei š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	07:32 (2)	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01 24	07:56 (2)	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	07:32 (2)	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04 23	07:55 (2)	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	07:33 (2)	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06 22	07:55 (2)	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	07:33 (2)	05:27	04:30	04:29	05:22	06:28	07:34 (2)	07:31	07:41	08:44
	15:50	16:53	17:59	20:08 21	07:54 (2)	21:14	22:13	22:24	21:35	20:15 9	07:43 (2)	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	07:33 (2)	05:24	04:29	04:30	05:24	06:30	07:31 (2)	07:33	07:43	08:46
	15:51	16:56	18:01	20:10 20	07:53 (2)	21:16	22:15	22:24	21:33	20:13 15	07:46 (2)	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	07:33 (2)	05:22	04:28	04:31	05:26	06:32	07:29 (2)	07:36	07:45	08:48
	15:53	16:58	18:04	20:12 18	07:51 (2)	21:19	22:16	22:23	21:30	20:10 18	07:47 (2)	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	07:35 (2)	05:20	04:27	04:33	05:28	06:34	07:28 (2)	07:38	07:48	08:49
	15:54	17:01	18:06	20:15 15	07:50 (2)	21:21	22:17	22:22	21:28	20:07 20	07:48 (2)	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	07:37 (2)	05:17	04:26	04:34	05:30	06:36	07:27 (2)	07:40	07:50	08:51
	15:56	17:03	18:08	20:17 9	07:46 (2)	21:23	22:18	22:21	21:26	20:04 21	07:48 (2)	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32		05:15	04:25	04:35	05:32	06:38	07:26 (2)	07:42	07:52	08:52
	15:58	17:05	18:10	20:19		21:25	22:19	22:20	21:23	20:01 22	07:48 (2)	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29		05:13	04:24	04:36	05:34	06:40	07:25 (2)	07:44	07:55	08:54
	16:00	17:08	18:13	20:21		21:27	22:20	22:19	21:21	19:59 23	07:48 (2)	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26		05:11	04:24	04:38	05:36	06:42	07:25 (2)	07:46	07:57	08:55
	16:01	17:10	18:15	20:23		21:29	22:21	22:18	21:18	19:56 23	07:48 (2)	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24		05:09	04:23	04:39	05:39	06:44	07:24 (2)	07:49	07:59	08:56
	16:03	17:12	18:17	20:26		21:31	22:22	22:17	21:16	19:53 24	07:48 (2)	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21		05:06	04:23	04:41	05:41	06:47	07:24 (2)	07:51	08:01	08:58
	16:05	17:15	18:19	20:28		21:34	22:23	22:15	21:14	19:50 23	07:47 (2)	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18		05:04	04:22	04:42	05:43	06:49	07:24 (2)	07:53	08:04	08:59
	16:07	17:17	18:22	20:30		21:36	22:24	22:14	21:11	19:47 22	07:46 (2)	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16		05:02	04:22	04:44	05:45	06:51	07:24 (2)	07:55	08:06	09:00
	16:09	17:20	18:24	20:32		21:38	22:25	22:13	21:09	19:45 21	07:45 (2)	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13		05:00	04:22	04:45	05:47	06:53	07:26 (2)	07:57	08:08	09:01
	16:11	17:22	18:26	20:34		21:40	22:25	22:11	21:06	19:42 18	07:44 (2)	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10		04:58	04:21	04:47	05:49	06:55	07:27 (2)	08:00	08:10	09:02
	16:13	17:24	18:28	20:37		21:42	22:26	22:10	21:04	19:39 15	07:42 (2)	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07		04:56	04:21	04:49	05:51	06:57	07:29 (2)	08:02	08:13	09:03
	16:15	17:27	18:31	20:39		21:44	22:26	22:08	21:01	19:36 11	07:40 (2)	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05		04:54	04:21	04:51	05:53	06:59		08:04	08:15	09:03
	16:17	17:29	18:33	20:41		21:46	22:27	22:06	20:58	19:33		18:11	16:01	15:36
20	08:49	07:43	06:28	06:02		04:52	04:21	04:52	05:56	07:01		08:06	08:17	09:04
	16:19	17:31	18:35	20:43		21:48	22:27	22:05	20:56	19:31		18:08	15:59	15:36
21	08:47	07:41	06:25	06:00		04:50	04:21	04:54	05:58	07:03		08:09	08:19	09:05
	16:21	17:34	18:37	20:46		21:50	22:28	22:03	20:53	19:28		18:06	15:57	15:36
22	08:46	07:38	06:22	05:57		04:49	04:22	04:56	06:00	07:06		08:11	08:21	09:05
	16:24	17:36	18:39	20:48		21:52	22:28	22:01	20:51	19:25		18:03	15:56	15:37
23	08:44	07:36	06:19	05:54		04:47	04:22	04:58	06:02	07:08		08:13	08:23	09:06
	16:26	17:38	18:42	20:50		21:53	22:28	21:59	20:48	19:22		18:00	15:54	15:37
24	08:42	07:33	06:16	05:52		04:45	04:22	05:00	06:04	07:10		08:15	08:25	09:06
	16:28	17:41	18:44	20:52		21:55	22:28	21:58	20:45	19:19		17:58	15:53	15:38
25	08:41	07:30	06:14	06:42 (2) 05:49		04:43	04:22	05:02	06:06	07:12		07:18	08:27	09:07
	16:30	17:43	18:46	9 06:51 (2) 20:54		21:57	22:28	21:56	20:43	19:16		16:55	15:51	15:39
26	08:39	07:28	06:11	06:39 (2) 05:47		04:42	04:23	05:04	06:08	07:14		07:20	08:30	09:07
	16:32	17:45	18:48	15 06:54 (2) 20:57		21:59	22:28	21:54	20:40	19:14		16:53	15:50	15:39
27	08:37	07:25	06:08	06:37 (2) 05:44		04:40	04:23	05:05	06:11	07:16		07:22	08:32	09:07
	16:35	17:48	18:50	18 06:55 (2) 20:59		22:01	22:28	21:52	20:37	19:11		16:50	15:48	15:40
28	08:35	07:22	06:05	06:35 (2) 05:42		04:39	04:24	05:07	06:13	07:18		07:25	08:33	09:07
	16:37	17:50	18:53	20 06:55 (2) 21:01		22:02	22:27	21:50	20:35	19:08		16:48	15:47	15:41
29	08:33		07:02	07:34 (2) 05:39		04:37	04:25	05:09	06:15	07:20		07:27	08:35	09:07
	16:39		19:55	22 07:56 (2) 21:03		22:04	22:27	21:48	20:32	19:05		16:46	15:46	15:42
30	08:31		07:00	07:34 (2) 05:37		04:36	04:26	05:11	06:17	07:23		07:29	08:37	09:07
	16:42		19:57	23 07:57 (2) 21:05		22:06	22:27	21:46	20:29	19:02		16:43	15:45	15:43
31	08:29		06:57	07:33 (2)		04:35		05:13	06:19			07:32		09:07
	16:44		19:59	23 07:56 (2)		22:07		21:44	20:26			16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386		321	241	207
Total, worst case			130	152					285				
Sun reduction			0.37	0.46					0.43				
Oper. time red.			0.93	0.93					0.93				
Wind dir. red.			0.65	0.65					0.65				
Total reduction			0.22	0.28					0.26				
Total, real			29	42					73				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BQ - Kuikules magazina

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:02	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BR - Kuikuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BS - Keninu iela 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:31	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:53
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:48	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BT - Keninu iela 3

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:31	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:53
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:48	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:06
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BU - Keninu iela 5
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:31	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:53
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:11	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:48	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:06
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:24	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BV - Kilzumi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June		July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33		04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:09		22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32		04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10		22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31		04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:05	21:12	22:11		22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30		04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13		22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29		04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14		22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28		04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:16		22:22	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27		04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17		22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26		04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18		22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25		04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19		22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24		04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20		22:19	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24		04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21		22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23		04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22		22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23		04:41	05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23		22:15	21:13	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22		04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24		22:14	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22		04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24		22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21		04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25		22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21		05:11 (8)	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	2	05:13 (8)	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21		05:10 (8)	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	4	05:14 (8)	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21		05:10 (8)	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:27	5	05:15 (8)	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21		05:10 (8)	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	5	05:15 (8)	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21		05:09 (8)	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	6	05:15 (8)	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21		05:09 (8)	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	6	05:15 (8)	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22		05:11 (8)	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:28	5	05:16 (8)	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22		05:11 (8)	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	5	05:16 (8)	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22		05:13 (8)	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	2	05:15 (8)	21:55	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:11	05:46	04:42	04:23			05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27			21:54	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23			05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:58	22:00	22:27			21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24			05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27			21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25			05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27			21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25			05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26			21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34				05:13	06:19		07:31		09:07
	16:44		19:59		22:07				21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539			538	474	386	321	241	207
Total, worst case							40							
Sun reduction							0.53							
Oper. time red.							0.93							
Wind dir. red.							0.66							
Total reduction							0.33							
Total, real							13							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BW - Kir š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:11	22:11	22:24	21:37	20:18	18:54	16:33	15:41
4	09:05	08:20	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:07	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:42	05:24	04:28	04:30	05:23	06:29	07:33	07:42	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:16	22:21	21:27	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:33	05:30	06:36	07:39	07:49	08:50
	15:56	17:02	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:18	21:24	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:15	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:52	07:57	08:08	09:00
	16:11	17:21	18:26	20:34	21:39	22:25	22:10	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:03
	16:19	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:18	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:02	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:56	05:59	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:24	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:43	18:45	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:41	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:52	15:49	15:39
27	08:36	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:49	18:52	21:00	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:06
	16:39		19:54	21:03	22:03	22:26	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:56	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BX - Lapskalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March		April	May	June	July	August	September	October		November	December
1	09:07	08:27		07:20	08:06 (3)	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:39
	15:46	16:46		17:52	29 08:35 (3)	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	15:44
2	09:06	08:25		07:17	08:05 (3)	06:51	05:31	04:32	04:27	05:17	06:23	07:27	08:52 (3)	07:36	08:41
	15:47	16:49		17:54	30 08:35 (3)	20:04	21:10	22:10	22:26	21:39	20:21	18:57	9 09:01 (3)	16:36	15:42
3	09:06	08:23		07:14	08:05 (3)	06:48	05:29	04:31	04:28	05:19	06:25	07:29	08:49 (3)	07:38	08:43
	15:48	16:51		17:57	30 08:35 (3)	20:06	21:12	22:12	22:25	21:37	20:18	18:54	15 09:04 (3)	16:34	15:41
4	09:06	08:21		07:12	08:06 (3)	06:46	05:27	04:30	04:29	05:22	06:28	07:31	08:46 (3)	07:41	08:45
	15:50	16:53		17:59	29 08:35 (3)	20:08	21:14	22:13	22:25	21:35	20:15	18:51	20 09:06 (3)	16:31	15:41
5	09:05	08:19		07:09	08:06 (3)	06:43	05:24	04:29	04:30	05:24	06:30	07:33	08:44 (3)	07:43	08:46
	15:51	16:56		18:01	28 08:34 (3)	20:10	21:16	22:15	22:24	21:33	20:13	18:49	23 09:07 (3)	16:29	15:40
6	09:04	08:17		07:06	08:06 (3)	06:40	05:22	04:28	04:31	05:26	06:32	07:35	08:43 (3)	07:45	08:48
	15:53	16:58		18:04	27 08:33 (3)	20:12	21:19	22:16	22:23	21:30	20:10	18:46	25 09:08 (3)	16:27	15:39
7	09:04	08:14		07:04	08:06 (3)	06:37	05:20	04:27	04:32	05:28	06:34	07:38	08:42 (3)	07:48	08:49
	15:54	17:00		18:06	26 08:32 (3)	20:15	21:21	22:17	22:22	21:28	20:07	18:43	27 09:09 (3)	16:25	15:38
8	09:03	08:12		07:01	08:07 (3)	06:35	05:17	04:26	04:34	05:30	06:36	07:40	08:41 (3)	07:50	08:51
	15:56	17:03		18:08	23 08:30 (3)	20:17	21:23	22:18	22:21	21:26	20:04	18:40	28 09:09 (3)	16:22	15:38
9	09:02	08:10		06:58	08:08 (3)	06:32	05:15	04:25	04:35	05:32	06:38	07:42	08:40 (3)	07:52	08:52
	15:58	17:05		18:10	22 08:30 (3)	20:19	21:25	22:19	22:20	21:23	20:01	18:38	29 09:09 (3)	16:20	15:37
10	09:01	08:08		06:55	08:10 (3)	06:29	05:13	04:24	04:36	05:34	06:40	07:44	08:39 (3)	07:55	08:54
	15:59	17:08		18:13	17 08:27 (3)	20:21	21:27	22:21	22:19	21:21	19:59	18:35	30 09:09 (3)	16:18	15:37
11	09:00	08:05		06:53	08:12 (3)	06:26	05:11	04:24	04:38	05:36	06:42	07:46	08:40 (3)	07:57	08:55
	16:01	17:10		18:15	12 08:24 (3)	20:23	21:29	22:22	22:18	21:19	19:56	18:32	29 09:09 (3)	16:16	15:36
12	08:59	08:03		06:50		06:24	05:08	04:23	04:39	05:38	06:44	07:49	08:39 (3)	07:59	08:56
	16:03	17:12		18:17		20:26	21:31	22:22	22:17	21:16	19:53	18:29	30 09:09 (3)	16:14	15:36
13	08:58	08:01		06:47		06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:39 (3)	08:01	08:58
	16:05	17:15		18:19		20:28	21:34	22:23	22:15	21:14	19:50	18:27	29 09:08 (3)	16:12	15:35
14	08:57	07:58		06:44		06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:40 (3)	08:04	08:59
	16:07	17:17		18:22		20:30	21:36	22:24	22:14	21:11	19:47	18:24	28 09:08 (3)	16:10	15:35
15	08:56	07:56		06:42		06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:40 (3)	08:06	09:00
	16:09	17:19		18:24		20:32	21:38	22:25	22:13	21:09	19:45	18:21	27 09:07 (3)	16:08	15:35
16	08:55	07:53		06:39		06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:40 (3)	08:08	09:01
	16:11	17:22		18:26		20:34	21:40	22:25	22:11	21:06	19:42	18:19	26 09:06 (3)	16:06	15:35
17	08:53	07:51		06:36		06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:41 (3)	08:10	09:02
	16:13	17:24		18:28		20:37	21:42	22:26	22:10	21:04	19:39	18:16	24 09:05 (3)	16:04	15:35
18	08:52	07:48		06:33		06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:42 (3)	08:13	09:03
	16:15	17:27		18:30		20:39	21:44	22:27	22:08	21:01	19:36	18:13	21 09:03 (3)	16:02	15:35
19	08:50	07:46		06:30		06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:43 (3)	08:15	09:03
	16:17	17:29		18:33		20:41	21:46	22:27	22:06	20:58	19:33	18:11	18 09:01 (3)	16:01	15:36
20	08:49	07:43		06:28		06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:46 (3)	08:17	09:04
	16:19	17:31		18:35		20:43	21:48	22:27	22:05	20:56	19:31	18:08	13 08:59 (3)	15:59	15:36
21	08:47	07:41	08:18 (3)	06:25		05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:50 (3)	08:19	09:05
	16:21	17:34	8 08:26 (3)	18:37		20:46	21:50	22:28	22:03	20:53	19:28	18:06	4 08:54 (3)	15:57	15:36
22	08:46	07:38	08:14 (3)	06:22		05:57	04:48	04:21	04:56	06:00	07:06	08:11		08:21	09:05
	16:23	17:36	15 08:29 (3)	18:39		20:48	21:52	22:28	22:01	20:51	19:25	18:03		15:56	15:37
23	08:44	07:36	08:12 (3)	06:19		05:54	04:47	04:22	04:58	06:02	07:08	08:13		08:23	09:06
	16:26	17:38	20 08:32 (3)	18:42		20:50	21:54	22:28	22:00	20:48	19:22	18:00		15:54	15:37
24	08:42	07:33	08:10 (3)	06:16		05:52	04:45	04:22	05:00	06:04	07:10	08:15		08:25	09:06
	16:28	17:41	23 08:33 (3)	18:44		20:52	21:55	22:28	21:58	20:45	19:19	17:58		15:53	15:38
25	08:41	07:30	08:09 (3)	06:14		05:49	04:43	04:22	05:01	06:06	07:12	07:18		08:28	09:07
	16:30	17:43	24 08:33 (3)	18:46		20:54	21:57	22:28	21:56	20:43	19:16	16:55		15:51	15:38
26	08:39	07:28	08:08 (3)	06:11		05:46	04:42	04:23	05:03	06:08	07:14	07:20		08:30	09:07
	16:32	17:45	26 08:34 (3)	18:48		20:57	21:59	22:28	21:54	20:40	19:14	16:53		15:50	15:39
27	08:37	07:25	08:08 (3)	06:08		05:44	04:40	04:23	05:05	06:10	07:16	07:22		08:32	09:07
	16:35	17:48	27 08:35 (3)	18:50		20:59	22:01	22:28	21:52	20:37	19:11	16:50		15:48	15:40
28	08:35	07:22	08:07 (3)	06:05		05:41	04:39	04:24	05:07	06:13	07:18	07:25		08:34	09:07
	16:37	17:50	28 08:35 (3)	18:53		21:01	22:02	22:28	21:50	20:35	19:08	16:48		15:47	15:41
29	08:33			07:02		05:39	04:37	04:25	05:09	06:15	07:20	07:27		08:35	09:07
	16:39			19:55		21:03	22:04	22:27	21:48	20:32	19:05	16:45		15:46	15:42
30	08:31			07:00		05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:37	09:07
	16:42			19:57		21:05	22:06	22:27	21:46	20:29	19:02	16:43		15:45	15:43
31	08:29			06:57			04:34		05:13	06:19		07:32			09:07
	16:44			19:59			22:07		21:44	20:26		16:41			15:44
Potential sun hours	227	262		365		429	515	539	538	474	386	321		241	207
Total, worst case			171		273								455		
Sun reduction			0.22		0.37								0.31		
Oper. time red.			0.93		0.93								0.93		
Wind dir. red.			0.61		0.61								0.61		
Total reduction			0.12		0.21								0.17		
Total, real			21		56								78		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BY - Lazdas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March	April	May	June	July	August	September	October	November	December
1	09:07	08:27		07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46		17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	19	08:31 (3)	15:43
2	09:06	08:25		07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49		17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	18	08:12 (3)	08:30 (3)	15:42
3	09:06	08:23		07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51		17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15	08:14 (3)	08:29 (3)	15:41
4	09:06	08:21		07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53		17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	12	08:15 (3)	08:27 (3)	15:41
5	09:05	08:19		07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56		18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	5	08:19 (3)	08:24 (3)	15:40
6	09:04	08:17		08:49 (3)	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	6	08:55 (3)	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14		08:45 (3)	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	12	08:57 (3)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12		08:44 (3)	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	16	09:00 (3)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10		08:42 (3)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18	09:00 (3)	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08		08:42 (3)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	20	09:02 (3)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05		08:41 (3)	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	21	09:02 (3)	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03		08:41 (3)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	22	09:03 (3)	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01		08:40 (3)	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	23	09:03 (3)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58		08:41 (3)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	23	09:04 (3)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56		08:41 (3)	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	22	09:03 (3)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53		08:40 (3)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	23	09:03 (3)	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51		08:41 (3)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	22	09:03 (3)	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48		08:42 (3)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	20	09:02 (3)	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46		08:42 (3)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18	09:00 (3)	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43		08:44 (3)	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	09:19 (3)	08:17	09:04
	16:19	17:31	16	09:00 (3)	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	7	09:26 (3)	15:59	15:36
21	08:47	07:41		08:46 (3)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	09:15 (3)	08:19	09:05
	16:21	17:34	11	08:57 (3)	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	13	09:28 (3)	15:57	15:36
22	08:46	07:38		08:49 (3)	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	09:14 (3)	08:21	09:05
	16:23	17:36	4	08:53 (3)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	16	09:30 (3)	15:56	15:37
23	08:44	07:36		06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	09:12 (3)	08:23	09:06
	16:26	17:38		18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	19	09:31 (3)	15:54	15:37
24	08:42	07:33		06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	09:12 (3)	08:26	09:06
	16:28	17:41		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	20	09:32 (3)	15:53	15:38
25	08:41	07:30		06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:11 (3)	08:28	09:07
	16:30	17:43		18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	21	08:32 (3)	15:51	15:38
26	08:39	07:28		06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:11 (3)	08:30	09:07
	16:32	17:45		18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	22	08:33 (3)	15:50	15:39
27	08:37	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:10 (3)	08:32	09:07
	16:35	17:48		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	23	08:33 (3)	15:48	15:40
28	08:35	07:22		06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:10 (3)	08:34	09:07
	16:37	17:50		18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	23	08:33 (3)	15:47	15:41
29	08:33			07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:10 (3)	08:36	09:07
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	22	08:32 (3)	15:46	15:42
30	08:31			07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:11 (3)	08:37	09:07
	16:42			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	22	08:33 (3)	15:45	15:43
31	08:29			06:57		04:34		05:13	06:19		07:32	08:11 (3)			09:07
	16:44			19:59		22:07		21:44	20:26		16:41	20	08:31 (3)			15:44
Potential sun hours	227	262		365	429	515	539	538	474	386	321		241		207
Total, worst case			297									228		69		
Sun reduction			0.22									0.31		0.15		
Oper. time red.			0.93									0.93		0.93		
Wind dir. red.			0.63									0.63		0.63		
Total reduction			0.13									0.18		0.09		
Total, real			38									41		6		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: BZ - Legzdini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:48	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:04	04:54	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CA - Leinieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March		April	May	June	July	August	September	October		November	December
1	09:07	08:27		07:20	08:13 (3)	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:39
	15:46	16:46		17:52	20 08:33 (3)	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	15:44
2	09:06	08:25		07:17	08:13 (3)	06:51	05:32	04:32	04:27	05:17	06:23	07:27		07:36	08:41
	15:47	16:49		17:54	19 08:32 (3)	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36	15:42
3	09:06	08:23		07:14	08:15 (3)	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38	08:43
	15:48	16:51		17:57	16 08:31 (3)	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:34	15:41
4	09:06	08:21		07:12	08:17 (3)	06:46	05:27	04:30	04:29	05:22	06:28	07:31		07:41	08:45
	15:50	16:53		17:59	11 08:28 (3)	20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31	15:41
5	09:05	08:19		07:09		06:43	05:24	04:29	04:30	05:24	06:30	07:33		07:43	08:46
	15:51	16:56		18:01		20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29	15:40
6	09:04	08:17		07:06		06:40	05:22	04:28	04:31	05:26	06:32	07:36		07:45	08:48
	15:53	16:58		18:04		20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	15:39
7	09:04	08:14		07:04		06:37	05:20	04:27	04:32	05:28	06:34	07:38		07:48	08:49
	15:54	17:00		18:06		20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:25	15:38
8	09:03	08:12		07:01		06:35	05:17	04:26	04:34	05:30	06:36	07:40		07:50	08:51
	15:56	17:03		18:08		20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	15:38
9	09:02	08:10		06:58		06:32	05:15	04:25	04:35	05:32	06:38	07:42	08:54 (3)	07:52	08:52
	15:58	17:05		18:10		20:19	21:25	22:20	22:20	21:23	20:01	18:38	6 09:00 (3)	16:20	15:37
10	09:01	08:08		06:55		06:29	05:13	04:24	04:36	05:34	06:40	07:44	08:50 (3)	07:55	08:54
	15:59	17:08		18:13		20:21	21:27	22:21	22:19	21:21	19:59	18:35	13 09:03 (3)	16:18	15:37
11	09:00	08:05		06:53		06:26	05:11	04:24	04:38	05:36	06:42	07:46	08:49 (3)	07:57	08:55
	16:01	17:10		18:15		20:23	21:29	22:22	22:18	21:19	19:56	18:32	16 09:05 (3)	16:16	15:36
12	08:59	08:03		06:50		06:24	05:08	04:23	04:39	05:38	06:44	07:49	08:47 (3)	07:59	08:56
	16:03	17:12		18:17		20:26	21:32	22:23	22:17	21:16	19:53	18:29	19 09:06 (3)	16:14	15:36
13	08:58	08:01		06:47		06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:45 (3)	08:01	08:58
	16:05	17:15		18:19		20:28	21:34	22:23	22:15	21:14	19:50	18:27	21 09:06 (3)	16:12	15:35
14	08:57	07:58		06:44		06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:45 (3)	08:04	08:59
	16:07	17:17		18:22		20:30	21:36	22:24	22:14	21:11	19:47	18:24	22 09:07 (3)	16:10	15:35
15	08:56	07:56		06:42		06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:44 (3)	08:06	09:00
	16:09	17:19		18:24		20:32	21:38	22:25	22:13	21:09	19:45	18:21	23 09:07 (3)	16:08	15:35
16	08:55	07:53		06:39		06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:43 (3)	08:08	09:01
	16:11	17:22		18:26		20:34	21:40	22:26	22:11	21:06	19:42	18:19	24 09:07 (3)	16:06	15:35
17	08:53	07:51	08:24 (3)	06:36		06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:44 (3)	08:10	09:02
	16:13	17:24	1 08:25 (3)	18:28		20:37	21:42	22:26	22:10	21:04	19:39	18:16	23 09:07 (3)	16:04	15:35
18	08:52	07:48	08:19 (3)	06:33		06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:43 (3)	08:13	09:03
	16:15	17:27	11 08:30 (3)	18:31		20:39	21:44	22:27	22:08	21:01	19:36	18:13	24 09:07 (3)	16:02	15:35
19	08:50	07:46	08:16 (3)	06:30		06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:44 (3)	08:15	09:03
	16:17	17:29	16 08:32 (3)	18:33		20:41	21:46	22:27	22:07	20:58	19:33	18:11	23 09:07 (3)	16:01	15:36
20	08:49	07:43	08:15 (3)	06:28		06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:44 (3)	08:17	09:04
	16:19	17:31	19 08:34 (3)	18:35		20:43	21:48	22:27	22:05	20:56	19:31	18:08	22 09:06 (3)	15:59	15:36
21	08:47	07:41	08:14 (3)	06:25		05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:44 (3)	08:19	09:05
	16:21	17:34	20 08:34 (3)	18:37		20:46	21:50	22:28	22:03	20:53	19:28	18:06	20 09:04 (3)	15:57	15:36
22	08:46	07:38	08:13 (3)	06:22		05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:46 (3)	08:21	09:05
	16:23	17:36	22 08:35 (3)	18:39		20:48	21:52	22:28	22:01	20:51	19:25	18:03	17 09:03 (3)	15:56	15:37
23	08:44	07:36	08:13 (3)	06:19		05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:47 (3)	08:23	09:06
	16:26	17:38	23 08:36 (3)	18:42		20:50	21:54	22:28	22:00	20:48	19:22	18:00	14 09:01 (3)	15:54	15:37
24	08:42	07:33	08:12 (3)	06:16		05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:50 (3)	08:26	09:06
	16:28	17:41	24 08:36 (3)	18:44		20:52	21:55	22:28	21:58	20:45	19:19	17:58	9 08:59 (3)	15:53	15:38
25	08:41	07:30	08:12 (3)	06:14		05:49	04:43	04:22	05:01	06:06	07:12	07:18		08:28	09:07
	16:30	17:43	23 08:35 (3)	18:46		20:54	21:57	22:28	21:56	20:43	19:16	16:55		15:51	15:38
26	08:39	07:28	08:11 (3)	06:11		05:46	04:42	04:23	05:03	06:08	07:14	07:20		08:30	09:07
	16:32	17:45	24 08:35 (3)	18:48		20:57	21:59	22:28	21:54	20:40	19:14	16:53		15:50	15:39
27	08:37	07:25	08:12 (3)	06:08		05:44	04:40	04:23	05:05	06:10	07:16	07:22		08:32	09:07
	16:35	17:48	23 08:35 (3)	18:50		20:59	22:01	22:28	21:52	20:37	19:11	16:50		15:48	15:40
28	08:35	07:22	08:12 (3)	06:05		05:41	04:39	04:24	05:07	06:13	07:18	07:25		08:34	09:07
	16:37	17:50	22 08:34 (3)	18:53		21:01	22:03	22:28	21:50	20:35	19:08	16:48		15:47	15:41
29	08:33			07:02		05:39	04:37	04:25	05:09	06:15	07:20	07:27		08:36	09:07
	16:39			19:55		21:03	22:04	22:27	21:48	20:32	19:05	16:45		15:46	15:42
30	08:31			07:00		05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:37	09:07
	16:42			19:57		21:05	22:06	22:27	21:46	20:29	19:02	16:43		15:45	15:43
31	08:29			06:57			04:34		05:13	06:19		07:32			09:07
	16:44			19:59			22:07		21:44	20:26		16:41			15:44
Potential sun hours	227	262		365		429	515	539	538	474	386	321		241	207
Total, worst case			228		66								296		
Sun reduction			0.22		0.37								0.31		
Oper. time red.			0.93		0.93								0.93		
Wind dir. red.			0.61		0.61								0.61		
Total reduction			0.13		0.21								0.17		
Total, real			29		14								51		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CB - Lielgravas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CC - Lielie Zarini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CD - Lielkuikuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CE - Lielspringi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March	April	May	June	July	August	September	October		November		December
1	09:06		08:27	15:15 (13)	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24		07:33	14:53 (13)	08:39
	15:45		16:46 28	15:43 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59		16:38 13	15:06 (13)	15:43
2	09:06		08:25	15:15 (13)	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26		07:36	14:51 (13)	08:41
	15:46		16:48 28	15:43 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56		16:35 18	15:09 (13)	15:42
3	09:06		08:23	15:16 (13)	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29		07:38	14:50 (13)	08:43
	15:48		16:50 27	15:43 (13)	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54		16:33 20	15:10 (13)	15:41
4	09:05		08:21	15:16 (13)	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31		07:40	14:48 (13)	08:44
	15:49		16:53 27	15:43 (13)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31 23	15:11 (13)	15:40
5	09:05		08:19	15:17 (13)	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33		07:43	14:48 (13)	08:46
	15:51		16:55 26	15:43 (13)	18:01	20:10	21:16	22:14	22:24	21:32	20:12	18:48		16:28 24	15:12 (13)	15:39
6	09:04		08:16	15:17 (13)	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35		07:45	14:47 (13)	08:48
	15:52		16:58 25	15:42 (13)	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45		16:26 25	15:12 (13)	15:38
7	09:03		08:14	15:19 (13)	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37		07:47	14:47 (13)	08:49
	15:54		17:00 22	15:41 (13)	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43		16:24 26	15:13 (13)	15:38
8	09:03		08:12	15:21 (13)	07:00	06:34	05:17	04:25	04:33	05:29	06:36	07:39		07:50	14:46 (13)	08:51
	15:55		17:02 20	15:41 (13)	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40		16:22 27	15:13 (13)	15:37
9	09:02		08:10	15:22 (13)	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42		07:52	14:46 (13)	08:52
	15:57		17:05 17	15:39 (13)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20 28	15:14 (13)	15:36
10	09:01		08:07	15:24 (13)	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44		07:54	14:46 (13)	08:54
	15:59		17:07 12	15:36 (13)	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34		16:18 29	15:15 (13)	15:36
11	09:00		08:05	15:29 (13)	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46		07:57	14:46 (13)	08:55
	16:01		17:09 3	15:32 (13)	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32		16:15 28	15:14 (13)	15:36
12	08:59		08:03		06:49	06:23	05:08	04:22	04:39	05:38	06:44	07:48		07:59	14:46 (13)	08:56
	16:02		17:12		18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29		16:13 29	15:15 (13)	15:35
13	08:58		08:00		06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50		08:01	14:46 (13)	08:57
	16:04		17:14		18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26		16:11 28	15:14 (13)	15:35
14	08:57		07:58		06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53		08:03	14:47 (13)	08:58
	16:06		17:17		18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24		16:09 28	15:15 (13)	15:35
15	08:56		07:55		06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55		08:06	14:47 (13)	09:00
	16:08		17:19		18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21		16:07 27	15:14 (13)	15:35
16	08:54		07:53		06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57		08:08	14:48 (13)	09:01
	16:10		17:21		18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18		16:06 26	15:14 (13)	15:35
17	08:53		07:50		06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59		08:10	14:48 (13)	09:02
	16:12		17:24		18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16		16:04 25	15:13 (13)	15:35
18	08:52	15:21 (13)	07:48		06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02		08:12	14:49 (13)	09:02
	16:14 10	15:31 (13)	17:26		18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13		16:02 24	15:13 (13)	15:35
19	08:50	15:19 (13)	07:45		06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04		08:14	14:50 (13)	09:03
	16:16 14	15:33 (13)	17:28		18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10		16:00 22	15:12 (13)	15:35
20	08:49	15:18 (13)	07:43		06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06		08:17	14:51 (13)	09:04
	16:19 17	15:35 (13)	17:31		18:35	20:43	21:48	22:27	22:05	20:55	19:30	18:08		15:58 21	15:12 (13)	15:35
21	08:47	15:17 (13)	07:40		06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08		08:19	14:52 (13)	09:05
	16:21 19	15:36 (13)	17:33		18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05		15:57 19	15:11 (13)	15:36
22	08:45	15:16 (13)	07:38		06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11		08:21	14:54 (13)	09:05
	16:23 21	15:37 (13)	17:35		18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:03		15:55 17	15:11 (13)	15:36
23	08:44	15:16 (13)	07:35		06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13		08:23	14:55 (13)	09:06
	16:25 22	15:38 (13)	17:38		18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00		15:54 14	15:09 (13)	15:37
24	08:42	15:15 (13)	07:33		06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15		08:25	14:58 (13)	09:06
	16:27 24	15:39 (13)	17:40		18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57		15:52 10	15:08 (13)	15:37
25	08:40	15:15 (13)	07:30		06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17		08:27	15:02 (13)	09:06
	16:30 25	15:40 (13)	17:42		18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55		15:51 2	15:04 (13)	15:38
26	08:39	15:15 (13)	07:27		06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20		08:29		09:07
	16:32 26	15:41 (13)	17:45		18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52		15:49		15:39
27	08:37	15:15 (13)	07:25		06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22		08:31		09:07
	16:34 27	15:42 (13)	17:47		18:50	20:58	22:01	22:28	21:52	20:37	19:10	16:50		15:48		15:40
28	08:35	15:14 (13)	07:22		06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24		08:33		09:07
	16:36 28	15:42 (13)	17:49		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47		15:46		15:40
29	08:33	15:14 (13)			07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27		08:35		09:07
	16:39 28	15:42 (13)			19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45		15:45		15:41
30	08:31	15:15 (13)			06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29		08:37		09:07
	16:41 28	15:43 (13)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43		15:44		15:42
31	08:29	15:15 (13)			06:56		04:34		05:13	06:19		07:31	14:57 (13)			09:07
	16:43 28	15:43 (13)			19:59		22:07		21:43	20:26		16:40 6	15:03 (13)			15:44
Potential sun hours	227		262		365	429	516	539	539	475	386	321		241		207
Total, worst case		317		235									6		553	
Sun reduction		0.13		0.22									0.31		0.15	
Oper. time red.		0.93		0.93									0.93		0.93	
Wind dir. red.		0.67		0.67									0.67		0.67	
Total reduction		0.08		0.14									0.19		0.10	
Total, real		26		32									1		53	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CF - Liepavoti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CG - Liepavoti 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CH - Lici š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March		April		May	June	July	August	September		October	November	December
1	09:07	08:27	07:20		06:54		07:30 (3)	05:34	04:33	04:26	05:15	06:21		07:25	07:34	08:39
	15:46	16:46	17:52		20:01	23	07:53 (3)	21:08	22:09	22:26	21:42	20:24		19:00	16:38	15:44
2	09:06	08:25	07:17		06:51		07:30 (3)	05:32	04:32	04:27	05:17	06:23		07:27	07:36	08:41
	15:47	16:49	17:54		20:04	22	07:52 (3)	21:10	22:10	22:26	21:39	20:21		18:57	16:36	15:43
3	09:06	08:23	07:14		06:48		07:31 (3)	05:29	04:31	04:28	05:20	06:25		07:29	07:38	08:43
	15:48	16:51	17:57		20:06	21	07:52 (3)	21:12	22:12	22:25	21:37	20:18		18:54	16:34	15:42
4	09:06	08:21	07:12		06:46		07:31 (3)	05:27	04:30	04:29	05:22	06:28	07:34 (3)	07:31	07:41	08:45
	15:50	16:53	17:59		20:08	20	07:51 (3)	21:14	22:13	22:24	21:35	20:15	5 07:39 (3)	18:51	16:31	15:41
5	09:05	08:19	07:09		06:43		07:31 (3)	05:24	04:29	04:30	05:24	06:30	07:30 (3)	07:33	07:43	08:46
	15:51	16:56	18:01		20:10	19	07:50 (3)	21:16	22:15	22:24	21:33	20:13	12 07:42 (3)	18:49	16:29	15:40
6	09:04	08:17	07:06		06:40		07:32 (3)	05:22	04:28	04:31	05:26	06:32	07:28 (3)	07:36	07:45	08:48
	15:53	16:58	18:04		20:12	16	07:48 (3)	21:19	22:16	22:23	21:30	20:10	16 07:44 (3)	18:46	16:27	15:39
7	09:04	08:14	07:04		06:37		07:34 (3)	05:20	04:27	04:32	05:28	06:34	07:26 (3)	07:38	07:48	08:49
	15:54	17:00	18:06		20:15	12	07:46 (3)	21:21	22:17	22:22	21:28	20:07	19 07:45 (3)	18:43	16:25	15:38
8	09:03	08:12	07:01		06:35		07:37 (3)	05:17	04:26	04:34	05:30	06:36	07:25 (3)	07:40	07:50	08:51
	15:56	17:03	18:08		20:17	5	07:42 (3)	21:23	22:18	22:21	21:26	20:04	20 07:45 (3)	18:40	16:22	15:38
9	09:02	08:10	06:58		06:32			05:15	04:25	04:35	05:32	06:38	07:24 (3)	07:42	07:52	08:52
	15:58	17:05	18:10		20:19			21:25	22:19	22:20	21:23	20:01	21 07:45 (3)	18:38	16:20	15:37
10	09:01	08:08	06:55		06:29			05:13	04:24	04:36	05:34	06:40	07:23 (3)	07:44	07:55	08:54
	15:59	17:08	18:13		20:21			21:27	22:21	22:19	21:21	19:59	22 07:45 (3)	18:35	16:18	15:37
11	09:00	08:05	06:53		06:26			05:11	04:24	04:38	05:36	06:42	07:23 (3)	07:46	07:57	08:55
	16:01	17:10	18:15		20:23			21:29	22:22	22:18	21:19	19:56	22 07:45 (3)	18:32	16:16	15:36
12	08:59	08:03	06:50		06:24			05:08	04:23	04:39	05:38	06:44	07:22 (3)	07:49	07:59	08:56
	16:03	17:12	18:17		20:26			21:32	22:22	22:17	21:16	19:53	23 07:45 (3)	18:29	16:14	15:36
13	08:58	08:01	06:47		06:21			05:06	04:23	04:41	05:41	06:47	07:22 (3)	07:51	08:01	08:58
	16:05	17:15	18:19		20:28			21:34	22:23	22:15	21:14	19:50	22 07:44 (3)	18:27	16:12	15:36
14	08:57	07:58	06:44		06:18			05:04	04:22	04:42	05:43	06:49	07:22 (3)	07:53	08:04	08:59
	16:07	17:17	18:22		20:30			21:36	22:24	22:14	21:11	19:47	21 07:43 (3)	18:24	16:10	15:35
15	08:56	07:56	06:42		06:16			05:02	04:22	04:44	05:45	06:51	07:23 (3)	07:55	08:06	09:00
	16:09	17:19	18:24		20:32			21:38	22:25	22:13	21:09	19:45	19 07:42 (3)	18:21	16:08	15:35
16	08:55	07:53	06:39		06:13			05:00	04:22	04:45	05:47	06:53	07:24 (3)	07:57	08:08	09:01
	16:11	17:22	18:26		20:34			21:40	22:25	22:11	21:06	19:42	17 07:41 (3)	18:19	16:06	15:35
17	08:53	07:51	06:36		06:10			04:58	04:21	04:47	05:49	06:55	07:26 (3)	08:00	08:10	09:02
	16:13	17:24	18:28		20:37			21:42	22:26	22:10	21:04	19:39	13 07:39 (3)	18:16	16:04	15:35
18	08:52	07:48	06:33		06:07			04:56	04:21	04:49	05:51	06:57	07:28 (3)	08:02	08:13	09:03
	16:15	17:27	18:31		20:39			21:44	22:27	22:08	21:01	19:36	8 07:36 (3)	18:13	16:03	15:35
19	08:50	07:46	06:30		06:05			04:54	04:21	04:50	05:53	06:59		08:04	08:15	09:03
	16:17	17:29	18:33		20:41			21:46	22:27	22:06	20:58	19:33		18:11	16:01	15:36
20	08:49	07:43	06:28		06:02			04:52	04:21	04:52	05:56	07:01		08:06	08:17	09:04
	16:19	17:31	18:35		20:43			21:48	22:27	22:05	20:56	19:31		18:08	15:59	15:36
21	08:47	07:41	06:25		06:00			04:50	04:21	04:54	05:58	07:03		08:09	08:19	09:05
	16:21	17:34	18:37		20:46			21:50	22:28	22:03	20:53	19:28		18:06	15:57	15:36
22	08:46	07:38	06:22		05:57			04:49	04:21	04:56	06:00	07:06		08:11	08:21	09:05
	16:23	17:36	18:39		20:48			21:52	22:28	22:01	20:51	19:25		18:03	15:56	15:37
23	08:44	07:36	06:19		05:54			04:47	04:22	04:58	06:02	07:08		08:13	08:23	09:06
	16:26	17:38	18:42		20:50			21:54	22:28	22:00	20:48	19:22		18:00	15:54	15:37
24	08:42	07:33	06:16		05:52			04:45	04:22	05:00	06:04	07:10		08:16	08:25	09:06
	16:28	17:41	18:44		20:52			21:55	22:28	21:58	20:45	19:19		17:58	15:53	15:38
25	08:41	07:30	06:14	06:41 (3)	05:49			04:43	04:22	05:02	06:06	07:12		07:18	08:28	09:07
	16:30	17:43	18:46	7 06:48 (3)	20:54			21:57	22:28	21:56	20:43	19:16		16:55	15:51	15:39
26	08:39	07:28	06:11	06:38 (3)	05:47			04:42	04:23	05:03	06:08	07:14		07:20	08:30	09:07
	16:32	17:45	18:48	12 06:50 (3)	20:57			21:59	22:28	21:54	20:40	19:14		16:53	15:50	15:39
27	08:37	07:25	06:08	06:35 (3)	05:44			04:40	04:23	05:05	06:11	07:16		07:22	08:32	09:07
	16:35	17:48	18:50	17 06:52 (3)	20:59			22:01	22:28	21:52	20:37	19:11		16:50	15:48	15:40
28	08:35	07:22	06:05	06:33 (3)	05:41			04:39	04:24	05:07	06:13	07:18		07:25	08:34	09:07
	16:37	17:50	18:53	19 06:52 (3)	21:01			22:02	22:28	21:50	20:35	19:08		16:48	15:47	15:41
29	08:33		07:02	07:32 (3)	05:39			04:37	04:25	05:09	06:15	07:20		07:27	08:35	09:07
	16:39		19:55	21 07:53 (3)	21:03			22:04	22:27	21:48	20:32	19:05		16:45	15:46	15:42
30	08:31		07:00	07:32 (3)	05:36			04:36	04:25	05:11	06:17	07:23		07:29	08:37	09:07
	16:42		19:57	22 07:54 (3)	21:05			22:06	22:27	21:46	20:29	19:02		16:43	15:45	15:43
31	08:29		06:57	07:31 (3)				04:34		05:13	06:19			07:32		09:07
	16:44		19:59	22 07:53 (3)				22:07		21:44	20:26			16:41		15:44
Potential sun hours	227	262	365		429			515	539	538	474	386		321	241	207
Total, worst case			120		138							260				
Sun reduction			0.37		0.46							0.43				
Oper. time red.			0.93		0.93							0.93				
Wind dir. red.			0.65		0.65							0.65				
Total reduction			0.22		0.28							0.26				
Total, real			26		38							67				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CI - Licupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CJ - Lojas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		10:16 (3)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		10:02 (3)
	15:46	26	10:42 (3)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	25	10:27 (3)
2	09:06		10:16 (3)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		10:02 (3)
	15:47	26	10:42 (3)	16:48	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	26	10:28 (3)
3	09:06		10:16 (3)	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		10:03 (3)
	15:48	26	10:42 (3)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	25	10:28 (3)
4	09:06		10:17 (3)	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		10:03 (3)
	15:50	26	10:43 (3)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	26	10:29 (3)
5	09:05		10:17 (3)	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43			08:46		10:03 (3)
	15:51	27	10:44 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29			15:40	26	10:29 (3)
6	09:04		10:18 (3)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		10:04 (3)
	15:53	26	10:44 (3)	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	26	10:30 (3)
7	09:04		10:18 (3)	08:14	07:04	06:37	05:20	04:26	04:32	05:28	06:34	07:38	07:48			08:49		10:04 (3)
	15:54	26	10:44 (3)	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	26	10:30 (3)
8	09:03		10:19 (3)	08:12	07:01	06:35	05:17	04:26	04:33	05:30	06:36	07:40	07:50			08:51		10:04 (3)
	15:56	26	10:45 (3)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	26	10:30 (3)
9	09:02		10:18 (3)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		10:05 (3)
	15:58	26	10:44 (3)	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20			15:37	26	10:31 (3)
10	09:01		10:19 (3)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55			08:54		10:05 (3)
	15:59	26	10:45 (3)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	26	10:31 (3)
11	09:00		10:20 (3)	08:05	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46	07:57			08:55		10:06 (3)
	16:01	25	10:45 (3)	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16			15:36	26	10:32 (3)
12	08:59		10:20 (3)	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59			08:56		10:06 (3)
	16:03	25	10:45 (3)	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14			15:36	26	10:32 (3)
13	08:58		10:21 (3)	08:01	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		10:06 (3)
	16:05	25	10:46 (3)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12			15:35	26	10:32 (3)
14	08:57		10:21 (3)	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04			08:59		10:07 (3)
	16:07	24	10:45 (3)	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	26	10:33 (3)
15	08:56		10:23 (3)	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06			09:00		10:08 (3)
	16:09	23	10:46 (3)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08			15:35	25	10:33 (3)
16	08:55		10:23 (3)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08			09:01		10:08 (3)
	16:11	22	10:45 (3)	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06			15:35	26	10:34 (3)
17	08:53		10:25 (3)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10			09:02		10:09 (3)
	16:13	21	10:46 (3)	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04			15:35	25	10:34 (3)
18	08:52		10:26 (3)	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13			09:03		10:09 (3)
	16:15	19	10:45 (3)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02			15:35	26	10:35 (3)
19	08:50		10:27 (3)	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15			09:03		10:10 (3)
	16:17	17	10:44 (3)	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01			15:35	25	10:35 (3)
20	08:49		10:28 (3)	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		10:07 (3)	09:04		10:10 (3)
	16:19	15	10:43 (3)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	7	10:14 (3)	15:36	25	10:35 (3)
21	08:47		10:30 (3)	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		10:06 (3)	09:05		10:11 (3)
	16:21	12	10:42 (3)	17:33	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05	15:57	12	10:18 (3)	15:36	25	10:36 (3)
22	08:46		10:32 (3)	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		10:04 (3)	09:05		10:11 (3)
	16:23	7	10:39 (3)	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15	10:19 (3)	15:37	25	10:36 (3)
23	08:44			07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23		10:04 (3)	09:06		10:12 (3)
	16:26			17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	17	10:21 (3)	15:37	25	10:37 (3)
24	08:42			07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25		10:03 (3)	09:06		10:12 (3)
	16:28			17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	19	10:22 (3)	15:38	25	10:37 (3)
25	08:41			07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28		10:02 (3)	09:07		10:12 (3)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	21	10:23 (3)	15:38	25	10:37 (3)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		10:02 (3)	09:07		10:13 (3)
	16:32			17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	22	10:24 (3)	15:39	25	10:38 (3)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		10:02 (3)	09:07		10:13 (3)
	16:35			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	23	10:25 (3)	15:40	25	10:38 (3)
28	08:35			07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34		10:02 (3)	09:07		10:14 (3)
	16:37			17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	23	10:25 (3)	15:41	25	10:39 (3)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		10:01 (3)	09:07		10:14 (3)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	25	10:26 (3)	15:42	26	10:40 (3)
30	08:31				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		10:02 (3)	09:07		10:15 (3)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	25	10:27 (3)	15:43	26	10:41 (3)
31	08:29				06:57		04:34		05:13	06:19		07:32				09:07		10:15 (3)
	16:44				19:59		22:07		21:44	20:26		16:41				15:44	25	10:40 (3)
Potential sun hours	227			262	365	429	515	539	538	474	386	321	241			207		
Total, worst case		496												209			791	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.60												0.60			0.60	
Total reduction		0.07												0.09			0.07	
Total, real		36												18			56	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CK - Lekungas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		09:50 (10)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:27 (10)
	15:45	5	09:55 (10)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	18:59	16:38			15:43	21	09:48 (10)
2	09:06		09:49 (10)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:28 (10)
	15:47	7	09:56 (10)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	20	09:48 (10)
3	09:06		09:48 (10)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38			08:43		09:29 (10)
	15:48	9	09:57 (10)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	18	09:47 (10)
4	09:06		09:47 (10)	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:45		09:30 (10)
	15:49	11	09:58 (10)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	17	09:47 (10)
5	09:05		09:47 (10)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:31 (10)
	15:51	13	10:00 (10)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	16	09:47 (10)
6	09:04		09:46 (10)	08:17	07:06	06:40	05:22	04:27	04:31	05:25	06:32	07:35	07:45			08:48		09:32 (10)
	15:52	15	10:01 (10)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	15	09:47 (10)
7	09:04		09:46 (10)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48			08:49		09:33 (10)
	15:54	16	10:02 (10)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	13	09:46 (10)
8	09:03		09:46 (10)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:35 (10)
	15:56	17	10:03 (10)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	11	09:46 (10)
9	09:02		09:45 (10)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		09:37 (10)
	15:57	18	10:03 (10)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	9	09:46 (10)
10	09:01		09:45 (10)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54			08:54		09:38 (10)
	15:59	19	10:04 (10)	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	7	09:45 (10)
11	09:00		09:45 (10)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57			08:55		09:40 (10)
	16:01	21	10:06 (10)	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16			15:36	5	09:45 (10)
12	08:59		09:45 (10)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59			08:56		09:41 (10)
	16:03	21	10:06 (10)	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14			15:35	3	09:44 (10)
13	08:58		09:45 (10)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		09:28 (10)	08:58		
	16:05	22	10:07 (10)	17:14	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	10	09:38 (10)	15:35		
14	08:57		09:45 (10)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		09:26 (10)	08:59		
	16:07	22	10:07 (10)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	13	09:39 (10)	15:35		
15	08:56		09:46 (10)	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06		09:25 (10)	09:00		
	16:08	22	10:08 (10)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:44	18:21	16:08	16	09:41 (10)	15:35		
16	08:55		09:45 (10)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:24 (10)	09:01		
	16:10	23	10:08 (10)	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	18	09:42 (10)	15:35		
17	08:53		09:46 (10)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		09:24 (10)	09:02		
	16:13	23	10:09 (10)	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	19	09:43 (10)	15:35		
18	08:52		09:46 (10)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13		09:23 (10)	09:03		
	16:15	24	10:10 (10)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	21	09:44 (10)	15:35		
19	08:50		09:47 (10)	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:23 (10)	09:03		
	16:17	23	10:10 (10)	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	22	09:45 (10)	15:35		
20	08:49		09:47 (10)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:23 (10)	09:04		
	16:19	23	10:10 (10)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	22	09:45 (10)	15:36		
21	08:47		09:47 (10)	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19		09:23 (10)	09:05		
	16:21	23	10:10 (10)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	23	09:46 (10)	15:36		
22	08:46		09:48 (10)	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:23 (10)	09:05		
	16:23	22	10:10 (10)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	23	09:46 (10)	15:36		
23	08:44		09:48 (10)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:24 (10)	09:06		
	16:25	22	10:10 (10)	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	23	09:47 (10)	15:37		
24	08:42		09:49 (10)	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:23 (10)	09:06		
	16:28	21	10:10 (10)	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	24	09:47 (10)	15:38		
25	08:41		09:50 (10)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:23 (10)	09:07		
	16:30	19	10:09 (10)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	24	09:47 (10)	15:38		
26	08:39		09:51 (10)	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30		09:25 (10)	09:07		
	16:32	18	10:09 (10)	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:13	16:53	15:49	22	09:47 (10)	15:39		
27	08:37		09:52 (10)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:25 (10)	09:07		
	16:34	16	10:08 (10)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	22	09:47 (10)	15:40		
28	08:35		09:54 (10)	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:33		09:25 (10)	09:07		
	16:37	13	10:07 (10)	17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	22	09:47 (10)	15:41		
29	08:33		09:57 (10)		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:25 (10)	09:07		
	16:39	8	10:05 (10)		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	22	09:47 (10)	15:42		
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:27 (10)	09:07		
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	21	09:48 (10)	15:43		
31	08:29				06:57		04:34		05:13	06:19		07:31				09:07		09:50 (10)
	16:44				19:59		22:07		21:44	20:26		16:40				15:44	2	09:52 (10)
Potential sun hours	227			262	365	429	516	539	539	475	386	321	241			207		
Total, worst case		516												367			157	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.63												0.63			0.63	
Total reduction		0.08												0.09			0.07	
Total, real		39												33			12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CL - Madaru iela 5
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CM - Madaru iela 7

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CN - Madaru iela 10

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CO - Mazjesperi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:33	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:52	07:57	08:08	09:00
	16:11	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:49	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CP - Mazkaleji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March		April	May	June
1	09:07		10:21 (2)	08:27		07:20	08:29 (3)	06:54	05:34	04:33
	15:46	24	10:45 (2)	16:46		17:52	39	09:08 (3)	20:01	21:08	22:09
2	09:06		10:21 (2)	08:25		07:17	08:28 (3)	06:51	05:31	04:32
	15:47	24	10:45 (2)	16:49		17:54	40	09:08 (3)	20:04	21:10	22:10
3	09:06		10:21 (2)	08:23		07:14	08:28 (3)	06:48	05:29	04:31
	15:48	24	10:45 (2)	16:51		17:57	39	09:07 (3)	20:06	21:12	22:12
4	09:06		10:21 (2)	08:21		07:12	08:29 (3)	06:46	05:27	04:30
	15:50	24	10:45 (2)	16:53		17:59	38	09:07 (3)	20:08	21:14	22:13
5	09:05		10:23 (2)	08:19		07:09	07:42 (4)	06:43	05:24	04:28
	15:51	23	10:46 (2)	16:56		18:01	41	09:06 (3)	20:10	21:16	22:15
6	09:04		10:23 (2)	08:17		07:06	07:37 (4)	06:40	05:22	04:27
	15:53	24	10:47 (2)	16:58		18:04	49	09:05 (3)	20:12	21:19	22:16
7	09:04		10:24 (2)	08:14	08:46 (5)	07:04	07:35 (4)	06:37	05:20	04:27
	15:54	23	10:47 (2)	17:00	6	08:52 (5)	18:06	50	09:03 (3)	20:15	21:21	22:17
8	09:03		10:23 (2)	08:12	08:43 (5)	07:01	07:33 (4)	06:35	05:17	04:26
	15:56	23	10:46 (2)	17:03	12	08:55 (5)	18:08	50	09:01 (3)	20:17	21:23	22:18
9	09:02		10:24 (2)	08:10	08:41 (5)	06:58	07:32 (4)	06:32	05:15	04:25
	15:58	22	10:46 (2)	17:05	16	08:57 (5)	18:10	51	09:01 (3)	20:19	21:25	22:19
10	09:01		10:25 (2)	08:08	08:40 (5)	06:55	07:31 (4)	06:29	05:13	04:24
	15:59	22	10:47 (2)	17:08	19	08:59 (5)	18:13	49	08:58 (3)	20:21	21:27	22:21
11	09:00		10:26 (2)	08:05	08:39 (5)	06:53	07:30 (4)	06:26	05:11	04:24
	16:01	21	10:47 (2)	17:10	20	08:59 (5)	18:15	45	08:55 (3)	20:23	21:29	22:22
12	08:59		10:26 (2)	08:03	08:39 (5)	06:50	07:29 (4)	06:24	05:08	04:23
	16:03	20	10:46 (2)	17:12	21	09:00 (5)	18:17	38	08:51 (3)	20:26	21:31	22:22
13	08:58		10:28 (2)	08:00	08:38 (5)	06:47	07:29 (4)	06:21	05:06	04:23
	16:05	19	10:47 (2)	17:15	23	09:01 (5)	18:19	26	07:55 (4)	20:28	21:34	22:23
14	08:57		10:28 (2)	07:58	08:37 (5)	06:44	07:29 (4)	06:18	05:04	04:22
	16:07	18	10:46 (2)	17:17	23	09:00 (5)	18:22	27	07:56 (4)	20:30	21:36	22:24
15	08:56		10:30 (2)	07:56	08:38 (5)	06:41	07:29 (4)	06:15	05:02	04:22
	16:09	16	10:46 (2)	17:19	23	09:01 (5)	18:24	26	07:55 (4)	20:32	21:38	22:25
16	08:55		10:31 (2)	07:53	08:37 (5)	06:39	07:29 (4)	06:13	05:00	04:21
	16:11	14	10:45 (2)	17:22	24	09:01 (5)	18:26	25	07:54 (4)	20:34	21:40	22:25
17	08:53		10:33 (2)	07:51	08:38 (5)	06:36	07:29 (4)	06:10	04:58	04:21
	16:13	11	10:44 (2)	17:24	23	09:01 (5)	18:28	24	07:53 (4)	20:37	21:42	22:26
18	08:52		10:36 (2)	07:48	08:37 (3)	06:33	07:29 (4)	06:07	04:56	04:21
	16:15	6	10:42 (2)	17:26	26	09:03 (3)	18:30	23	07:52 (4)	20:39	21:44	22:27
19	08:50			07:46	08:35 (3)	06:30	07:30 (4)	06:05	04:54	04:21
	16:17			17:29	29	09:04 (3)	18:33	20	07:50 (4)	20:41	21:46	22:27
20	08:49			07:43	08:34 (3)	06:28	06:54 (1)	06:02	04:52	04:21
	16:19			17:31	32	09:06 (3)	18:35	20	07:49 (4)	20:43	21:48	22:27
21	08:47			07:41	08:33 (3)	06:25	06:51 (1)	05:59	04:50	04:21
	16:21			17:34	33	09:06 (3)	18:37	20	07:46 (4)	20:45	21:50	22:28
22	08:46			07:38	08:32 (3)	06:22	06:48 (1)	05:57	04:48	04:21
	16:23			17:36	35	09:07 (3)	18:39	12	07:00 (1)	20:48	21:52	22:28
23	08:44			07:35	08:31 (3)	06:19	06:45 (1)	05:54	04:47	04:22
	16:26			17:38	36	09:07 (3)	18:42	15	07:00 (1)	20:50	21:54	22:28
24	08:42			07:33	08:31 (3)	06:16	06:42 (1)	05:52	04:45	04:22
	16:28			17:41	37	09:08 (3)	18:44	18	07:00 (1)	20:52	21:55	22:28
25	08:41			07:30	08:30 (3)	06:14	06:41 (1)	05:49	04:43	04:22
	16:30			17:43	38	09:08 (3)	18:46	18	06:59 (1)	20:54	21:57	22:28
26	08:39			07:28	08:29 (3)	06:11	06:42 (1)	05:46	04:42	04:23
	16:32			17:45	39	09:08 (3)	18:48	18	07:00 (1)	20:57	21:59	22:28
27	08:37			07:25	08:29 (3)	06:08	06:41 (1)	05:44	04:40	04:23
	16:35			17:47	40	09:09 (3)	18:50	18	06:59 (1)	20:59	22:01	22:28
28	08:35			07:22	08:29 (3)	06:05	06:42 (1)	05:41	04:39	04:24
	16:37			17:50	40	09:09 (3)	18:53	15	06:57 (1)	21:01	22:02	22:27
29	08:33					07:02	07:42 (1)	05:39	04:37	04:25
	16:39					19:55	14	07:56 (1)	21:03	22:04	22:27
30	08:31					07:00	07:45 (1)	05:36	04:36	04:25
	16:42					19:57	9	07:54 (1)	21:05	22:06	22:27
31	08:29					06:57			04:34	
	16:44					19:59			22:07	
Potential sun hours	227		262			365		429	515	539
Total, worst case		358		595			877			
Sun reduction		0.13		0.22			0.37			
Oper. time red.		0.93		0.93			0.93			
Wind dir. red.		0.60		0.63			0.62			
Total reduction		0.07		0.13			0.21			
Total, real		26		76			184			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CP - Mazkaleji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September		October		November		December		
1	04:26	05:15	06:21		07:25		08:08 (4)	07:34		08:10 (5)	08:39		10:08 (2)
	22:26	21:42	20:24		19:00	32	09:27 (3)	16:38	18	08:28 (5)	15:43	21	10:29 (2)
2	04:27	05:17	06:23		07:27		08:08 (4)	07:36		08:11 (5)	08:41		10:08 (2)
	22:26	21:39	20:21		18:57	42	09:32 (3)	16:36	15	08:26 (5)	15:42	22	10:30 (2)
3	04:28	05:19	06:25		07:29		08:09 (4)	07:38		08:13 (5)	08:43		10:08 (2)
	22:25	21:37	20:18		18:54	47	09:35 (3)	16:34	12	08:25 (5)	15:41	23	10:31 (2)
4	04:29	05:22	06:27		07:31		08:09 (4)	07:41		08:16 (5)	08:44		10:09 (2)
	22:24	21:35	20:15		18:51	50	09:37 (3)	16:31	5	08:21 (5)	15:41	22	10:31 (2)
5	04:30	05:24	06:30		07:33		08:09 (4)	07:43			08:46		10:09 (2)
	22:24	21:33	20:13		18:49	51	09:38 (3)	16:29			15:40	23	10:32 (2)
6	04:31	05:26	06:32		07:35		08:10 (4)	07:45			08:48		10:09 (2)
	22:23	21:30	20:10		18:46	51	09:39 (3)	16:27			15:39	24	10:33 (2)
7	04:32	05:28	06:34		07:38		08:12 (4)	07:48			08:49		10:09 (2)
	22:22	21:28	20:07		18:43	49	09:40 (3)	16:24			15:38	23	10:32 (2)
8	04:34	05:30	06:36		07:40		08:15 (4)	07:50			08:51		10:09 (2)
	22:21	21:26	20:04		18:40	46	09:41 (3)	16:22			15:38	24	10:33 (2)
9	04:35	05:32	06:38		07:42		09:04 (3)	07:52			08:52		10:10 (2)
	22:20	21:23	20:01		18:38	37	09:41 (3)	16:20			15:37	24	10:34 (2)
10	04:36	05:34	06:40		07:44		09:03 (3)	07:55			08:54		10:10 (2)
	22:19	21:21	19:59		18:35	38	09:41 (3)	16:18			15:36	24	10:34 (2)
11	04:38	05:36	06:42		07:46		09:03 (3)	07:57			08:55		10:11 (2)
	22:18	21:18	19:56		18:32	39	09:42 (3)	16:16			15:36	24	10:35 (2)
12	04:39	05:38	06:44		07:49		09:02 (3)	07:59			08:56		10:11 (2)
	22:17	21:16	19:53		18:29	39	09:41 (3)	16:14			15:36	24	10:35 (2)
13	04:41	05:41	06:46	07:36 (1)	07:51		09:02 (3)	08:01			08:58		10:11 (2)
	22:15	21:14	19:50	8 07:44 (1)	18:27	39	09:41 (3)	16:12			15:35	24	10:35 (2)
14	04:42	05:43	06:49	07:33 (1)	07:53		09:02 (3)	08:04			08:59		10:12 (2)
	22:14	21:11	19:47	13 07:46 (1)	18:24	40	09:42 (3)	16:10			15:35	24	10:36 (2)
15	04:44	05:45	06:51	07:31 (1)	07:55		09:02 (3)	08:06			09:00		10:12 (2)
	22:13	21:09	19:45	16 07:47 (1)	18:21	39	09:41 (3)	16:08			15:35	25	10:37 (2)
16	04:45	05:47	06:53	07:30 (1)	07:57		09:01 (3)	08:08			09:01		10:13 (2)
	22:11	21:06	19:42	17 07:47 (1)	18:19	39	09:40 (3)	16:06			15:35	24	10:37 (2)
17	04:47	05:49	06:55	07:30 (1)	08:00		09:02 (3)	08:10			09:02		10:13 (2)
	22:10	21:03	19:39	18 07:48 (1)	18:16	38	09:40 (3)	16:04			15:35	25	10:38 (2)
18	04:49	05:51	06:57	07:30 (1)	08:02		09:02 (3)	08:13			09:03		10:14 (2)
	22:08	21:01	19:36	18 07:48 (1)	18:13	37	09:39 (3)	16:02			15:35	24	10:38 (2)
19	04:50	05:53	06:59	07:29 (1)	08:04		09:02 (3)	08:15			09:03		10:14 (2)
	22:06	20:58	19:33	18 07:47 (1)	18:11	36	09:38 (3)	16:01			15:36	24	10:38 (2)
20	04:52	05:55	07:01	07:31 (1)	08:06		09:03 (3)	08:17			09:04		10:14 (2)
	22:05	20:56	19:30	16 07:47 (1)	18:08	35	09:38 (3)	15:59			15:36	25	10:39 (2)
21	04:54	05:58	07:03	07:33 (1)	08:09		09:03 (3)	08:19			09:05		10:15 (2)
	22:03	20:53	19:28	12 07:45 (1)	18:06	33	09:36 (3)	15:57			15:36	24	10:39 (2)
22	04:56	06:00	07:05	07:35 (1)	08:11		09:05 (3)	08:21			09:05		10:15 (2)
	22:01	20:51	19:25	18 08:29 (4)	18:03	31	09:36 (3)	15:56			15:37	24	10:39 (2)
23	04:58	06:02	07:08	07:37 (1)	08:13		09:06 (3)	08:23			09:06		10:16 (2)
	22:00	20:48	19:22	20 08:32 (4)	18:00	28	09:34 (3)	15:54			15:37	25	10:41 (2)
24	04:59	06:04	07:10	08:14 (4)	08:15		09:08 (5)	08:25		10:13 (2)	09:06		10:16 (2)
	21:58	20:45	19:19	19 08:33 (4)	17:58	25	09:33 (3)	15:53	6	10:19 (2)	15:38	25	10:41 (2)
25	05:01	06:06	07:12	08:13 (4)	07:18		08:08 (5)	08:27		10:11 (2)	09:07		10:17 (2)
	21:56	20:43	19:16	21 08:34 (4)	16:55	23	08:31 (5)	15:51	11	10:22 (2)	15:38	24	10:41 (2)
26	05:03	06:08	07:14	08:11 (4)	07:20		08:08 (5)	08:30		10:10 (2)	09:07		10:17 (2)
	21:54	20:40	19:14	24 08:35 (4)	16:53	23	08:31 (5)	15:50	14	10:24 (2)	15:39	24	10:41 (2)
27	05:05	06:10	07:16	08:11 (4)	07:22		08:07 (5)	08:32		10:09 (2)	09:07		10:18 (2)
	21:52	20:37	19:11	25 08:36 (4)	16:50	24	08:31 (5)	15:48	16	10:25 (2)	15:40	24	10:42 (2)
28	05:07	06:13	07:18	08:10 (4)	07:25		08:08 (5)	08:34		10:09 (2)	09:07		10:18 (2)
	21:50	20:34	19:08	26 08:36 (4)	16:48	23	08:31 (5)	15:47	17	10:26 (2)	15:41	24	10:42 (2)
29	05:09	06:15	07:20	08:09 (4)	07:27		08:08 (5)	08:35		10:08 (2)	09:07		10:19 (2)
	21:48	20:32	19:05	27 08:36 (4)	16:45	22	08:30 (5)	15:46	19	10:27 (2)	15:42	24	10:43 (2)
30	05:11	06:17	07:23	08:09 (4)	07:29		08:09 (5)	08:37		10:09 (2)	09:07		10:20 (2)
	21:46	20:29	19:02	26 08:35 (4)	16:43	21	08:30 (5)	15:45	20	10:29 (2)	15:43	24	10:44 (2)
31	05:13	06:19			07:31		08:09 (5)				09:07		10:19 (2)
	21:44	20:26			16:41	20	08:29 (5)				15:44	25	10:44 (2)
Potential sun hours	538	474	386		321			241			207		
Total, worst case				342		1097			153			740	
Sun reduction				0.43		0.31			0.15			0.13	
Oper. time red.				0.93		0.93			0.93			0.93	
Wind dir. red.				0.62		0.62			0.61			0.60	
Total reduction				0.25		0.18			0.09			0.07	
Total, real				84		194			13			52	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CQ - Mazkuikuli A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:02	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CR - Mazkuikuli B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:02	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CS - Mazskujinas
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March		April	May	June	July	August	September	October		November	December
1	09:07	08:27		07:20	08:27 (3)	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:39
	15:46	16:46		17:52	4 08:31 (3)	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	15:44
2	09:06	08:25		07:17		06:51	05:32	04:32	04:27	05:17	06:23	07:27		07:36	08:41
	15:47	16:49		17:54		20:04	21:10	22:11	22:26	21:39	20:21	18:57		16:36	15:42
3	09:06	08:23		07:14		06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38	08:43
	15:48	16:51		17:57		20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:34	15:41
4	09:06	08:21		07:12		06:46	05:27	04:30	04:29	05:22	06:28	07:31		07:41	08:45
	15:50	16:53		17:59		20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31	15:41
5	09:05	08:19		07:09		06:43	05:24	04:29	04:30	05:24	06:30	07:33		07:43	08:46
	15:51	16:56		18:01		20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29	15:40
6	09:04	08:17		07:06		06:40	05:22	04:28	04:31	05:26	06:32	07:36		07:45	08:48
	15:53	16:58		18:04		20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	15:39
7	09:04	08:14		07:04		06:37	05:20	04:27	04:32	05:28	06:34	07:38		07:48	08:49
	15:54	17:00		18:06		20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:25	15:38
8	09:03	08:12		07:01		06:35	05:17	04:26	04:34	05:30	06:36	07:40		07:50	08:51
	15:56	17:03		18:08		20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	15:38
9	09:02	08:10		06:58		06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52	08:52
	15:58	17:05		18:10		20:19	21:25	22:20	22:20	21:23	20:01	18:38		16:20	15:37
10	09:01	08:08		06:55		06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55	08:54
	15:59	17:08		18:13		20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	15:37
11	09:00	08:05		06:53		06:26	05:11	04:24	04:38	05:36	06:42	07:46		07:57	08:55
	16:01	17:10		18:15		20:23	21:29	22:22	22:18	21:19	19:56	18:32		16:16	15:36
12	08:59	08:03		06:50		06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59	08:56
	16:03	17:12		18:17		20:26	21:32	22:23	22:17	21:16	19:53	18:29		16:14	15:36
13	08:58	08:01		06:47		06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:58 (3)	08:01	08:58
	16:05	17:15		18:19		20:28	21:34	22:23	22:15	21:14	19:50	18:27	8 09:06 (3)	16:12	15:35
14	08:57	07:58	08:29 (3)	06:44		06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:56 (3)	08:04	08:59
	16:07	17:17	4 08:33 (3)	18:22		20:30	21:36	22:24	22:14	21:11	19:47	18:24	13 09:09 (3)	16:10	15:35
15	08:56	07:56	08:25 (3)	06:42		06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:53 (3)	08:06	09:00
	16:09	17:19	11 08:36 (3)	18:24		20:32	21:38	22:25	22:13	21:09	19:45	18:21	17 09:10 (3)	16:08	15:35
16	08:55	07:53	08:23 (3)	06:39		06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:52 (3)	08:08	09:01
	16:11	17:22	15 08:38 (3)	18:26		20:34	21:40	22:26	22:11	21:06	19:42	18:19	19 09:11 (3)	16:06	15:35
17	08:53	07:51	08:22 (3)	06:36		06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:51 (3)	08:10	09:02
	16:13	17:24	18 08:40 (3)	18:28		20:37	21:42	22:26	22:10	21:04	19:39	18:16	21 09:12 (3)	16:04	15:35
18	08:52	07:48	08:21 (3)	06:33		06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:50 (3)	08:13	09:03
	16:15	17:27	19 08:40 (3)	18:31		20:39	21:44	22:27	22:08	21:01	19:36	18:13	22 09:12 (3)	16:02	15:35
19	08:50	07:46	08:20 (3)	06:30		06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:51 (3)	08:15	09:03
	16:17	17:29	21 08:41 (3)	18:33		20:41	21:46	22:27	22:07	20:58	19:33	18:11	22 09:13 (3)	16:01	15:36
20	08:49	07:43	08:20 (3)	06:28		06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:50 (3)	08:17	09:04
	16:19	17:31	22 08:42 (3)	18:35		20:43	21:48	22:27	22:05	20:56	19:31	18:08	22 09:12 (3)	15:59	15:36
21	08:47	07:41	08:19 (3)	06:25		05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:49 (3)	08:19	09:05
	16:21	17:34	23 08:42 (3)	18:37		20:46	21:50	22:28	22:03	20:53	19:28	18:06	23 09:12 (3)	15:57	15:36
22	08:46	07:38	08:19 (3)	06:22		05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:50 (3)	08:21	09:05
	16:23	17:36	22 08:41 (3)	18:39		20:48	21:52	22:28	22:01	20:51	19:25	18:03	22 09:12 (3)	15:56	15:37
23	08:44	07:36	08:19 (3)	06:19		05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:50 (3)	08:23	09:06
	16:26	17:38	23 08:42 (3)	18:42		20:50	21:54	22:28	22:00	20:48	19:22	18:00	21 09:11 (3)	15:54	15:37
24	08:42	07:33	08:19 (3)	06:16		05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:51 (3)	08:26	09:06
	16:28	17:41	22 08:41 (3)	18:44		20:52	21:55	22:28	21:58	20:45	19:19	17:58	19 09:10 (3)	15:53	15:38
25	08:41	07:30	08:20 (3)	06:14		05:49	04:43	04:22	05:01	06:06	07:12	07:18	07:52 (3)	08:28	09:07
	16:30	17:43	20 08:40 (3)	18:46		20:54	21:57	22:28	21:56	20:43	19:16	16:55	17 08:09 (3)	15:51	15:38
26	08:39	07:28	08:20 (3)	06:11		05:46	04:42	04:23	05:03	06:08	07:14	07:20	07:53 (3)	08:30	09:07
	16:32	17:45	19 08:39 (3)	18:48		20:57	21:59	22:28	21:54	20:40	19:14	16:53	15 08:08 (3)	15:50	15:39
27	08:37	07:25	08:22 (3)	06:08		05:44	04:40	04:23	05:05	06:10	07:16	07:22	07:55 (3)	08:32	09:07
	16:35	17:48	16 08:38 (3)	18:50		20:59	22:01	22:28	21:52	20:37	19:11	16:50	10 08:05 (3)	15:48	15:40
28	08:35	07:22	08:23 (3)	06:05		05:41	04:39	04:24	05:07	06:13	07:18	07:25		08:34	09:07
	16:37	17:50	13 08:36 (3)	18:53		21:01	22:03	22:28	21:50	20:35	19:08	16:48		15:47	15:41
29	08:33			07:02		05:39	04:37	04:25	05:09	06:15	07:20	07:27		08:36	09:07
	16:39			19:55		21:03	22:04	22:27	21:48	20:32	19:05	16:45		15:46	15:42
30	08:31			07:00		05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:37	09:07
	16:42			19:57		21:05	22:06	22:27	21:46	20:29	19:02	16:43		15:45	15:43
31	08:29			06:57			04:34		05:13	06:19		07:32			09:07
	16:44			19:59			22:07		21:44	20:26		16:41			15:44
Potential sun hours	227	262		365		429	515	539	538	474	386	321		241	207
Total, worst case			268		4								271		
Sun reduction			0.22		0.37								0.31		
Oper. time red.			0.93		0.93								0.93		
Wind dir. red.			0.62		0.62								0.62		
Total reduction			0.13		0.21								0.18		
Total, real			34		1								48		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CT - Mazspridi š i A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:07		11:53 (13)	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39		
	15:45	3	11:56 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43		
2	09:06			08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41		
	15:46			16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42		
3	09:06			08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43		
	15:48			16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:05			08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44		
	15:49			16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05			08:19	07:09	06:43	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46		
	15:51			16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39		
6	09:04			08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48		
	15:52			16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38		
7	09:04			08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49		
	15:54			17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38		
8	09:03			08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51		
	15:55			17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37		
9	09:02			08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52		
	15:57			17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36		
10	09:01			08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54		
	15:59			17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36		
11	09:00			08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		11:44 (13)
	16:01			17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36	2	11:46 (13)
12	08:59			08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56		11:42 (13)
	16:03			17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35	7	11:49 (13)
13	08:58			08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57		11:41 (13)
	16:04			17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35	9	11:50 (13)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59		11:41 (13)
	16:06			17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35	11	11:52 (13)
15	08:56			07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00		11:41 (13)
	16:08			17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35	12	11:53 (13)
16	08:54			07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01		11:41 (13)
	16:10			17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35	12	11:53 (13)
17	08:53			07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02		11:41 (13)
	16:12			17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	13	11:54 (13)
18	08:52			07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03		11:42 (13)
	16:14			17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35	13	11:55 (13)
19	08:50			07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		11:41 (13)
	16:16			17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35	14	11:55 (13)
20	08:49			07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		11:42 (13)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35	14	11:56 (13)
21	08:47			07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05		11:43 (13)
	16:21			17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36	14	11:57 (13)
22	08:46			07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05		11:43 (13)
	16:23			17:36	18:39	20:47	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	14	11:57 (13)
23	08:44			07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06		11:44 (13)
	16:25			17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37	14	11:58 (13)
24	08:42			07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06		11:44 (13)
	16:27			17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37	14	11:58 (13)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06		11:44 (13)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	14	11:58 (13)
26	08:39			07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07		11:45 (13)
	16:32			17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	13	11:58 (13)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07		11:46 (13)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	12	11:58 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07		11:47 (13)
	16:36			17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40	12	11:59 (13)
29	08:33				07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07		11:48 (13)
	16:39				19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41	11	11:59 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07		11:49 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	10	11:59 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31		09:07		11:50 (13)
	16:43				19:59		22:07		21:44	20:26		16:40		15:44	8	11:58 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241	207		
Total, worst case		3													243	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.65													0.65	
Total reduction		0.08													0.08	
Total, real		0													19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CU - Mazspridi š i B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:07	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39		
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43		
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41		
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42		
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43		
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44		
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05	08:19	07:09	06:43	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46		
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39		
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48		
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38		
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49		
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38		
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51		
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37		
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52		
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36		
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54		
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36		
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36		
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56		
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35		
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57		11:51 (13)
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35	2	11:53 (13)
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59		11:50 (13)
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35	6	11:56 (13)
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00		11:50 (13)
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35	7	11:57 (13)
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:52	07:57	08:08	09:01		11:49 (13)
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35	10	11:59 (13)
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02		11:49 (13)
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	10	11:59 (13)
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03		11:50 (13)
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35	10	12:00 (13)
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		11:49 (13)
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35	11	12:00 (13)
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		11:50 (13)
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35	11	12:01 (13)
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05		11:50 (13)
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36	12	12:02 (13)
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05		11:50 (13)
	16:23	17:36	18:39	20:47	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	12	12:02 (13)
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06		11:52 (13)
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37	11	12:03 (13)
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06		11:52 (13)
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37	11	12:03 (13)
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06		11:52 (13)
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	11	12:03 (13)
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07		11:53 (13)
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	10	12:03 (13)
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07		11:54 (13)
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	9	12:03 (13)
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07		11:55 (13)
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40	8	12:03 (13)
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07		11:57 (13)
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41	6	12:03 (13)
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07		11:59 (13)
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	4	12:03 (13)
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07		
	16:43		19:59		22:07		21:44	20:26		16:40		15:44		
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207		
Total, worst case													161	
Sun reduction													0.13	
Oper. time red.													0.93	
Wind dir. red.													0.65	
Total reduction													0.08	
Total, real													12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CV - Maja Nr. 4
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:47	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CW - Maja Nr. 5
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:47	19:22	18:00	15:53	15:37
24	08:42	07:32	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CX - Maja Nr. 7

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:47	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:55	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CY - Maja Nr. 9

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:47	19:22	18:00	15:53	15:37
24	08:42	07:32	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:55	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: CZ - Maja Nr. 10

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	08:59
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:47	19:22	18:00	15:53	15:37
24	08:42	07:32	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:55	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DA - Maja Nr. 11

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:35
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	08:59
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:10	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:47	19:22	18:00	15:53	15:37
24	08:42	07:32	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:55	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:26	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DB - Medni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:49	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DC - Me ž ciems

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:26	07:29	07:39	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	16:00	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:22	22:17	21:16	19:53	18:30	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:14	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:54	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:04	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:01	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DD - Me ž ini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:23	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:37	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:41	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:36
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:54	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:51	04:22	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:58	15:37
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:01	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:33	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:40
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:08	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:10	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:12	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:14	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DE - Me ž meiniki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:07		10:50 (1)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39		
	15:46	23	11:32 (4)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43		
2	09:06		10:51 (1)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41		
	15:47	20	11:32 (4)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42		
3	09:06		11:17 (4)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43		
	15:48	14	11:31 (4)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:06		11:18 (4)	08:21	07:12	06:46	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45		
	15:50	13	11:31 (4)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05		11:21 (4)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46		
	15:51	10	11:31 (4)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:40		
6	09:04		11:22 (4)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48		11:09 (4)
	15:53	8	11:30 (4)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39	7	11:16 (4)
7	09:04		11:26 (4)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49		11:07 (4)
	15:54	1	11:27 (4)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38	10	11:17 (4)
8	09:03			08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51		11:07 (4)
	15:56			17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37	12	11:19 (4)
9	09:02			08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52		11:07 (4)
	15:57			17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37	13	11:20 (4)
10	09:01			08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54		10:41 (1)
	15:59			17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36	18	11:21 (4)
11	09:00			08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		10:40 (1)
	16:01			17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36	23	11:22 (4)
12	08:59			08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56		10:39 (1)
	16:03			17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:36	26	11:23 (4)
13	08:58			08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58		10:39 (1)
	16:05			17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35	27	11:23 (4)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59		10:39 (1)
	16:07			17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35	29	11:25 (4)
15	08:56			07:56	06:41	06:15	05:02	04:22	04:43	05:45	06:51	07:55	08:06	09:00		10:39 (1)
	16:09			17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35	30	11:25 (4)
16	08:55			07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01		10:39 (1)
	16:11			17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35	32	11:26 (4)
17	08:53			07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02		10:40 (1)
	16:13			17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	33	11:27 (4)
18	08:52			07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03		10:40 (1)
	16:15			17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35	32	11:27 (4)
19	08:50			07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		10:40 (1)
	16:17			17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:35	34	11:28 (4)
20	08:49			07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		10:40 (1)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36	34	11:28 (4)
21	08:47			07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05		10:41 (1)
	16:21			17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36	34	11:29 (4)
22	08:46			07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05		10:41 (1)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	34	11:29 (4)
23	08:44			07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:08	08:13	08:23	09:06		10:42 (1)
	16:25			17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37	34	11:30 (4)
24	08:42			07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06		10:42 (1)
	16:28			17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38	34	11:30 (4)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:07		10:43 (1)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38	33	11:30 (4)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07		10:43 (1)
	16:32			17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39	34	11:31 (4)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07		10:44 (1)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	32	11:31 (4)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07		10:45 (1)
	16:37			17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	15:41	31	11:31 (4)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07		10:46 (1)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42	30	11:32 (4)
30	08:31				06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07		10:47 (1)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	29	11:32 (4)
31	08:29				06:57		04:34		05:13	06:19		07:31		09:07		10:48 (1)
	16:44				19:59		22:07		21:44	20:26		16:40		15:44	27	11:32 (4)
Potential sun hours	227			262	365	429	515	539	539	475	386	321	241	207		
Total, worst case		89													712	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.63													0.63	
Total reduction		0.08													0.07	
Total, real		7													53	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DF - Me ž strauti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:07
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DG - Mui ž nieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DH - Namdari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April		May		June	July		August		September	October	November	December
1	09:06	08:27	07:19	06:54		05:34		19:44 (8)	04:33	04:26		05:15		19:58 (8)	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01		21:07	33	20:17 (8)	22:08	22:26		21:41	24	20:22 (8)	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51		05:31		19:43 (8)	04:32	04:27		05:17		19:57 (8)	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03		21:09	33	20:16 (8)	22:10	22:25		21:39	25	20:22 (8)	20:20	18:56	16:36	15:42
3	09:05	08:23	07:14	06:48		05:29		19:44 (8)	04:30	04:28		05:19		19:56 (8)	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05		21:12	32	20:16 (8)	22:11	22:25		21:37	27	20:23 (8)	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45		05:26		19:44 (8)	04:29	04:29		05:21		19:55 (8)	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08		21:14	32	20:16 (8)	22:13	22:24		21:34	29	20:24 (8)	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:42		05:24		19:44 (8)	04:28	04:30		05:23		19:55 (8)	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10		21:16	32	20:16 (8)	22:14	22:23		21:32	29	20:24 (8)	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40		05:22		19:44 (8)	04:27	04:31		05:25		19:54 (8)	06:31	07:35	07:45	08:47
	15:52	16:58	18:03	20:12		21:18	32	20:16 (8)	22:15	22:22		21:30	31	20:25 (8)	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37		05:19		19:44 (8)	04:26	04:32		05:28		19:54 (8)	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14		21:20	30	20:14 (8)	22:17	22:21		21:28	31	20:25 (8)	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34		05:17		19:44 (8)	04:26	04:33		05:30		19:53 (8)	06:36	07:39	07:49	08:50
	15:56	17:02	18:08	20:16		21:22	30	20:14 (8)	22:18	22:20		21:25	32	20:25 (8)	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31		05:15		19:45 (8)	04:25	04:35		05:32		19:53 (8)	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19		21:25	28	20:13 (8)	22:19	22:19		21:23	32	20:25 (8)	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29		05:12		19:46 (8)	04:24	04:36		05:34		19:53 (8)	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21		21:27	26	20:12 (8)	22:20	22:18		21:20	32	20:25 (8)	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26		05:10		19:47 (8)	04:23	04:37		05:36		19:53 (8)	06:42	07:46	07:56	08:55
	16:01	17:10	18:14	20:23		21:29	25	20:12 (8)	22:21	22:17		21:18	32	20:25 (8)	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23		05:08		19:48 (8)	04:23	04:39		05:38		19:53 (8)	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25		21:31	23	20:11 (8)	22:22	22:16		21:16	32	20:25 (8)	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21		05:06		19:49 (8)	04:22	04:40		05:40		19:53 (8)	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27		21:33	20	20:09 (8)	22:23	22:15		21:13	32	20:25 (8)	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18		05:04		19:51 (8)	04:22	04:42		05:42		19:53 (8)	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30		21:35	18	20:09 (8)	22:24	22:13		21:11	31	20:24 (8)	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15		05:02		19:53 (8)	04:22	04:43		05:45		19:53 (8)	06:50	07:55	08:05	08:59
	16:08	17:19	18:23	20:32		21:37	14	20:07 (8)	22:24	22:12		21:08	31	20:24 (8)	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12		05:00		19:55 (8)	04:21	04:45		05:47		19:52 (8)	06:52	07:57	08:08	09:00
	16:10	17:21	18:26	20:34		21:39	9	20:04 (8)	22:25	22:11		21:06	30	20:22 (8)	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10		04:58			04:21	04:47		05:49		19:53 (8)	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36		21:41			22:25	22:09		21:03	28	20:21 (8)	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07		04:56			04:21	04:48		05:51		19:54 (8)	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38		21:43			22:26	22:08		21:00	26	20:20 (8)	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04		04:54			04:21	04:50		05:53		19:54 (8)	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41		21:45			22:26	22:06		20:58	25	20:19 (8)	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02		19:59 (8)		04:52	04:21	04:52		05:55		19:56 (8)	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	6	20:05 (8)		21:47	22:27	22:04		20:55	21	20:17 (8)	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59		19:55 (8)		04:50	04:21	04:54		05:57		19:57 (8)	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	15	20:10 (8)		21:49	22:27	22:03		20:53	19	20:16 (8)	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56		19:52 (8)		04:48	04:21	04:56		05:59		19:59 (8)	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	19	20:11 (8)		21:51	22:27	22:01		20:50	14	20:13 (8)	19:24	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54		19:51 (8)		04:46	04:21	04:57		06:02		20:04 (8)	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	22	20:13 (8)		21:53	22:27	21:59		20:47	4	20:08 (8)	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51		19:49 (8)		04:45	04:22	04:59		06:04			07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	25	20:14 (8)		21:55	22:27	21:57		20:45			19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49		19:48 (8)		04:43	04:22	05:01		06:06			07:11	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	27	20:15 (8)		21:57	22:27	21:55		20:42			19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46		19:46 (8)		04:41	04:23	05:03		06:08			07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	29	20:15 (8)		21:58	22:27	21:53		20:39			19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:44		19:46 (8)		04:40	04:23	05:05	20:08 (8)	06:10			07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	30	20:16 (8)		22:00	22:27	21:51	4 20:12 (8)	20:37			19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41		19:46 (8)		04:38	04:24	05:07	20:04 (8)	06:12			07:18	07:24	08:33	09:07
	16:37	17:49	18:52	21:01	31	20:17 (8)		22:02	22:27	21:49	12 20:16 (8)	20:34			19:08	16:48	15:47	15:41
29	08:33		07:02	05:39		19:44 (8)		04:37	04:24	05:09	20:02 (8)	06:14			07:20	07:26	08:35	09:07
	16:39		19:54	21:03	32	20:16 (8)		22:04	22:27	21:47	16 20:18 (8)	20:31			19:05	16:45	15:46	15:42
30	08:31		06:59	05:36		19:44 (8)		04:35	04:25	05:11	20:01 (8)	06:17			07:22	07:29	08:37	09:07
	16:41		19:57	21:05	32	20:16 (8)		22:05	22:26	21:45	19 20:20 (8)	20:29			19:02	16:43	15:44	15:43
31	08:29		06:56					04:34		05:13	19:59 (8)	06:19				07:31		09:06
	16:44		19:59					22:07		21:43	22 20:21 (8)	20:26				16:40		15:44
Potential sun hours	227	262	365	429		515		539	538		474		386	321	241	207
Total, worst case					268		417			73		617						
Sun reduction					0.46		0.58			0.57		0.55						
Oper. time red.					0.93		0.93			0.93		0.93						
Wind dir. red.					0.60		0.60			0.60		0.60						
Total reduction					0.26		0.32			0.32		0.30						
Total, real					69		135			23		188						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DI - Niedru iela 7
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DJ - Niedru iela 9

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DK - Niedru iela 10

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DL - Norinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May		June		
1	09:07		11:09 (11)	08:27		09:01 (12)	07:20			06:54			05:34		04:33		
	15:45	74	13:02 (10)	16:46	22	12:57 (10)	17:52			20:01			21:07		22:09		
2	09:06		11:11 (11)	08:25		08:59 (12)	07:17			06:51			05:31		04:32		
	15:47	73	13:03 (10)	16:48	16	09:15 (12)	17:54			20:03			21:10		22:10		
3	09:06		11:11 (11)	08:23		08:58 (12)	07:14			06:48			05:29		04:30		
	15:48	74	13:04 (10)	16:51	19	09:17 (12)	17:56			20:06			21:12		22:12		
4	09:05		11:11 (11)	08:21		08:56 (12)	07:11			06:45			05:26		04:29		
	15:49	73	13:04 (10)	16:53	21	09:17 (12)	17:59			20:08			21:14		22:13		
5	09:05		11:12 (11)	08:19		08:56 (12)	07:09			06:43			05:24		04:28		
	15:51	72	13:04 (10)	16:55	22	09:18 (12)	18:01			20:10			21:16		22:15		
6	09:04		11:13 (11)	08:16		08:56 (12)	07:06			06:40			05:22		04:27		
	15:52	73	13:06 (10)	16:58	24	09:20 (12)	18:03			20:12			21:18		22:16		
7	09:04		11:14 (11)	08:14		08:55 (12)	07:03		07:38 (13)	06:37			05:19		04:26		
	15:54	71	13:06 (10)	17:00	25	09:20 (12)	18:06	9	07:47 (13)	20:14			21:21		22:17		
8	09:03		11:14 (11)	08:12		08:55 (12)	07:01		07:34 (13)	06:34			05:17		04:25		
	15:56	72	13:06 (10)	17:02	26	09:21 (12)	18:08	16	07:50 (13)	20:17			21:23		22:18		
9	09:02		11:15 (11)	08:10		08:55 (12)	06:58		07:31 (13)	06:32			05:15		04:25		
	15:57	70	13:06 (10)	17:05	25	09:20 (12)	18:10	21	07:52 (13)	20:19			21:25		22:19		
10	09:01		11:16 (11)	08:07		08:55 (12)	06:55		07:30 (13)	06:29			05:12		04:24		
	15:59	70	13:07 (10)	17:07	26	09:21 (12)	18:12	24	07:54 (13)	20:21			21:27		22:20		
11	09:00		11:17 (11)	08:05		08:55 (12)	06:52		07:29 (13)	06:26			05:10		04:23		
	16:01	69	13:08 (10)	17:10	26	09:21 (12)	18:15	26	07:55 (13)	20:23			21:29		22:21		
12	08:59		11:18 (11)	08:03		08:56 (12)	06:50		07:27 (13)	06:23			05:08		04:23		
	16:03	66	13:07 (10)	17:12	25	09:21 (12)	18:17	28	07:55 (13)	20:25			21:31		22:22		
13	08:58		11:19 (11)	08:00		08:56 (12)	06:47		07:26 (13)	06:21			05:06		04:22		
	16:05	65	13:08 (10)	17:14	24	09:20 (12)	18:19	29	07:55 (13)	20:28			21:33		22:23		
14	08:57		11:20 (11)	07:58		08:56 (12)	06:44		07:25 (13)	06:18			05:04		04:22		
	16:06	63	13:08 (10)	17:17	23	09:19 (12)	18:21	30	07:55 (13)	20:30			21:36		22:24		
15	08:56		11:22 (11)	07:55		08:57 (12)	06:41		07:26 (13)	06:15			05:02		04:21		
	16:08	61	13:09 (10)	17:19	22	09:19 (12)	18:24	30	07:56 (13)	20:32			21:38		22:25		
16	08:54		11:24 (11)	07:53		08:58 (12)	06:38		07:25 (13)	06:12			05:00		04:21		
	16:10	57	13:09 (10)	17:22	19	09:17 (12)	18:26	31	07:56 (13)	20:34			21:40		22:25		
17	08:53		11:26 (11)	07:51		08:59 (12)	06:36		07:25 (13)	06:10			04:58		04:21		
	16:12	52	13:08 (10)	17:24	17	09:16 (12)	18:28	30	07:55 (13)	20:36			21:42		22:26		
18	08:52		12:27 (10)	07:48		09:01 (12)	06:33		07:24 (13)	06:07			04:56		04:21		
	16:15	42	13:09 (10)	17:26	13	09:14 (12)	18:30	31	07:55 (13)	20:39			21:44		22:26		
19	08:50		12:27 (10)	07:46		09:05 (12)	06:30		07:24 (13)	06:04			04:54		04:21		
	16:17	42	13:09 (10)	17:29	4	09:09 (12)	18:32	30	07:54 (13)	20:41			21:46		22:27		
20	08:49		12:28 (10)	07:43			06:27		07:24 (13)	06:02			04:52		04:21		
	16:19	41	13:09 (10)	17:31			18:35	29	07:53 (13)	20:43			21:48		22:27		
21	08:47		12:28 (10)	07:40			06:25		07:26 (13)	05:59			04:50		04:21		
	16:21	41	13:09 (10)	17:33			18:37	26	07:52 (13)	20:45			21:50		22:28		
22	08:46		12:29 (10)	07:38			06:22		07:26 (13)	05:57			04:48		04:21		
	16:23	39	13:08 (10)	17:36			18:39	25	07:51 (13)	20:48			21:52		22:28		
23	08:44		12:30 (10)	07:35			06:19		07:27 (13)	05:54			04:46		04:21		
	16:25	38	13:08 (10)	17:38			18:41	22	07:49 (13)	20:50			21:53		22:28		
24	08:42		12:31 (10)	07:33			06:16		07:28 (13)	05:51			04:45		04:22		
	16:28	37	13:08 (10)	17:40			18:44	19	07:47 (13)	20:52			21:55		22:28		
25	08:41		12:32 (10)	07:30			06:13		07:30 (13)	05:49			04:43		04:22		
	16:30	35	13:07 (10)	17:43			18:46	14	07:44 (13)	20:54			21:57		22:28		
26	08:39		12:33 (10)	07:27			06:11			05:46			04:41		04:22		
	16:32	34	13:07 (10)	17:45			18:48			20:56			21:59		22:28		
27	08:37		12:34 (10)	07:25			06:08			05:44			04:40		04:23		
	16:34	32	13:06 (10)	17:47			18:50			20:59			22:01		22:28		
28	08:35		12:36 (10)	07:22			06:05			05:41			04:38		04:24		
	16:37	29	13:05 (10)	17:50			18:52			21:01			22:02		22:27		
29	08:33		12:37 (10)				07:02			05:39			04:37		04:24		
	16:39	26	13:03 (10)				19:55			21:03			22:04		22:27		
30	08:31		12:39 (10)				06:59			05:36			04:35		04:25		
	16:41	23	13:02 (10)				19:57			21:05			22:06		22:27		
31	08:29		09:03 (12)				06:57						04:34				
	16:44	25	13:00 (10)				19:59						22:07				
Potential sun hours	227			262			365			429			515		539		
Total, worst case		1639			399			470									
Sun reduction		0.13			0.22			0.37									
Oper. time red.		0.93			0.93			0.93									
Wind dir. red.		0.65			0.64			0.61									
Total reduction		0.08			0.13			0.21									
Total, real		130			52			97									

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DL - Norinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:24			08:06 (13)	07:34		08:25 (12)	08:39		11:00 (11)
	22:26		21:41		20:23			18:59	28		08:34 (13)	16:38	26	08:51 (12)	15:43	68	12:50 (10)
2	04:27		05:17		06:23			07:27			08:06 (13)	07:36		08:24 (12)	08:41		10:59 (11)
	22:26		21:39		20:21			18:57	27		08:33 (13)	16:36	26	08:50 (12)	15:42	70	12:50 (10)
3	04:28		05:19		06:25			07:29			08:07 (13)	07:38		08:25 (12)	08:43		10:59 (11)
	22:25		21:37		20:18			18:54	25		08:32 (13)	16:33	25	08:50 (12)	15:41	70	12:50 (10)
4	04:29		05:21		06:27			07:31			08:09 (13)	07:41		08:25 (12)	08:44		10:59 (11)
	22:24		21:35		20:15			18:51	22		08:31 (13)	16:31	24	08:49 (12)	15:40	72	12:51 (10)
5	04:30		05:23		06:29			07:33			08:10 (13)	07:43		08:26 (12)	08:46		10:59 (11)
	22:24		21:33		20:12			18:48	18		08:28 (13)	16:29	23	08:49 (12)	15:39	72	12:51 (10)
6	04:31		05:25		06:31			07:35			08:12 (13)	07:45		08:26 (12)	08:48		10:59 (11)
	22:23		21:30		20:10			18:46	13		08:25 (13)	16:26	22	08:48 (12)	15:39	72	12:51 (10)
7	04:32		05:28		06:34			07:37				07:47		08:27 (12)	08:49		10:59 (11)
	22:22		21:28		20:07			18:43				16:24	21	08:48 (12)	15:38	72	12:51 (10)
8	04:33		05:30		06:36			07:40				07:50		08:29 (12)	08:51		10:59 (11)
	22:21		21:26		20:04			18:40				16:22	18	08:47 (12)	15:37	73	12:52 (10)
9	04:35		05:32		06:38			07:42				07:52		08:29 (12)	08:52		11:00 (11)
	22:20		21:23		20:01			18:37				16:20	16	08:45 (12)	15:37	73	12:53 (10)
10	04:36		05:34		06:40			07:44				07:54		08:32 (12)	08:54		11:00 (11)
	22:19		21:21		19:58			18:35				16:18	23	12:28 (10)	15:36	72	12:52 (10)
11	04:37		05:36		06:42			07:46				07:57		08:35 (12)	08:55		11:00 (11)
	22:18		21:18		19:56			18:32				16:16	24	12:31 (10)	15:36	73	12:53 (10)
12	04:39		05:38		06:44			07:48				07:59		12:11 (10)	08:56		11:00 (11)
	22:16		21:16		19:53			18:29				16:14	23	12:34 (10)	15:35	74	12:53 (10)
13	04:40		05:40		06:46			07:51				08:01		12:09 (10)	08:57		11:00 (11)
	22:15		21:13		19:50			18:26				16:12	26	12:35 (10)	15:35	74	12:53 (10)
14	04:42		05:42		06:48			07:53				08:03		12:08 (10)	08:59		11:02 (11)
	22:14		21:11		19:47			18:24				16:10	29	12:37 (10)	15:35	74	12:55 (10)
15	04:43		05:45		06:50			07:55				08:06		12:06 (10)	09:00		11:02 (11)
	22:12		21:08		19:44			18:21				16:08	32	12:38 (10)	15:35	74	12:55 (10)
16	04:45		05:47		06:53			07:57				08:08		12:06 (10)	09:01		11:02 (11)
	22:11		21:06		19:42			18:18				16:06	34	12:40 (10)	15:35	74	12:55 (10)
17	04:47		05:49		06:55			07:59				08:10		12:06 (10)	09:02		11:03 (11)
	22:09		21:03		19:39			18:16				16:04	35	12:41 (10)	15:35	74	12:56 (10)
18	04:48		05:51		06:57		08:18 (13)	08:02				08:12		12:05 (10)	09:02		11:03 (11)
	22:08		21:01		19:36	12	08:30 (13)	18:13				16:02	37	12:42 (10)	15:35	74	12:56 (10)
19	04:50		05:53		06:59		08:15 (13)	08:04				08:15		12:05 (10)	09:03		11:03 (11)
	22:06		20:58		19:33	18	08:33 (13)	18:10				16:00	38	12:43 (10)	15:35	74	12:56 (10)
20	04:52		05:55		07:01		08:14 (13)	08:06				08:17		12:04 (10)	09:04		11:03 (11)
	22:05		20:56		19:30	21	08:35 (13)	18:08				15:59	39	12:43 (10)	15:36	74	12:56 (10)
21	04:54		05:57		07:03		08:12 (13)	08:08				08:19		12:04 (10)	09:05		11:04 (11)
	22:03		20:53		19:27	24	08:36 (13)	18:05				15:57	41	12:45 (10)	15:36	74	12:57 (10)
22	04:55		06:00		07:05		08:10 (13)	08:11				08:21		12:04 (10)	09:05		11:04 (11)
	22:01		20:50		19:25	27	08:37 (13)	18:03				15:55	41	12:45 (10)	15:36	74	12:57 (10)
23	04:57		06:02		07:07		08:09 (13)	08:13			09:34 (12)	08:23		12:03 (10)	09:06		11:05 (11)
	21:59		20:48		19:22	28	08:37 (13)	18:00	7		09:41 (12)	15:54	42	12:45 (10)	15:37	74	12:58 (10)
24	04:59		06:04		07:10		08:08 (13)	08:15			09:30 (12)	08:25		12:04 (10)	09:06		11:06 (11)
	21:58		20:45		19:19	29	08:37 (13)	17:58	14		09:44 (12)	15:52	42	12:46 (10)	15:37	74	12:59 (10)
25	05:01		06:06		07:12		08:07 (13)	07:18			08:29 (12)	08:27		11:05 (11)	09:06		11:06 (11)
	21:56		20:42		19:16	30	08:37 (13)	16:55	17		08:46 (12)	15:51	51	12:46 (10)	15:38	74	12:59 (10)
26	05:03		06:08		07:14		08:06 (13)	07:20			08:27 (12)	08:29		11:03 (11)	09:07		11:06 (11)
	21:54		20:40		19:13	31	08:37 (13)	16:53	20		08:47 (12)	15:49	57	12:48 (10)	15:39	74	12:59 (10)
27	05:05		06:10		07:16		08:06 (13)	07:22			08:26 (12)	08:31		11:02 (11)	09:07		11:07 (11)
	21:52		20:37		19:11	31	08:37 (13)	16:50	22		08:48 (12)	15:48	60	12:48 (10)	15:40	74	13:00 (10)
28	05:07		06:12		07:18		08:06 (13)	07:24			08:25 (12)	08:33		11:00 (11)	09:07		11:07 (11)
	21:50		20:34		19:08	31	08:37 (13)	16:48	24		08:49 (12)	15:47	63	12:48 (10)	15:41	74	13:00 (10)
29	05:09		06:14		07:20		08:06 (13)	07:27			08:25 (12)	08:35		11:00 (11)	09:07		11:08 (11)
	21:48		20:32		19:05	30	08:36 (13)	16:45	25		08:50 (12)	15:45	64	12:48 (10)	15:42	74	13:01 (10)
30	05:11		06:17		07:22		08:06 (13)	07:29			08:24 (12)	08:37		10:59 (11)	09:07		11:08 (11)
	21:46		20:29		19:02	30	08:36 (13)	16:43	25		08:49 (12)	15:44	66	12:48 (10)	15:43	73	13:01 (10)
31	05:13		06:19					07:31			08:24 (12)				09:07		11:09 (11)
	21:44		20:26					16:40	26		08:50 (12)				15:44	74	13:02 (10)
Potential sun hours	539		475		386			321				241			207		
Total, worst case						342			313				1068			2266	
Sun reduction						0.43			0.31				0.15			0.13	
Oper. time red.						0.93			0.93				0.93			0.93	
Wind dir. red.						0.61			0.62				0.65			0.65	
Total reduction						0.24			0.18				0.09			0.08	
Total, real						83			55				100			174	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DM - Olki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:07			08:27		09:50 (10)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:27 (10)
	15:45			16:46	20	10:10 (10)	17:52	20:01	21:08	22:09	22:26	21:42	20:23	18:59	16:38			15:43	18	09:45 (10)
2	09:06			08:25		09:51 (10)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:29 (10)
	15:47			16:48	17	10:08 (10)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	15	09:44 (10)
3	09:06			08:23		09:53 (10)	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38			08:43		09:30 (10)
	15:48			16:51	14	10:07 (10)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	13	09:43 (10)
4	09:06			08:21		09:57 (10)	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:32 (10)
	15:49			16:53	7	10:04 (10)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	11	09:43 (10)
5	09:05			08:19			07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:34 (10)
	15:51			16:55			18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	8	09:42 (10)
6	09:04		09:51 (10)	08:17			07:06	06:40	05:22	04:27	04:31	05:25	06:32	07:35	07:45			08:48		09:37 (10)
	15:52	2	09:53 (10)	16:58			18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	3	09:40 (10)
7	09:04		09:49 (10)	08:14			07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48		09:26 (10)	08:49		
	15:54	7	09:56 (10)	17:00			18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	8	09:34 (10)	15:38		
8	09:03		09:48 (10)	08:12			07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50		09:24 (10)	08:51		
	15:56	10	09:58 (10)	17:03			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	14	09:38 (10)	15:37		
9	09:02		09:46 (10)	08:10			06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52		09:22 (10)	08:52		
	15:57	13	09:59 (10)	17:05			18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	17	09:39 (10)	15:37		
10	09:01		09:46 (10)	08:07			06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54		09:21 (10)	08:54		
	15:59	15	10:01 (10)	17:07			18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	20	09:41 (10)	15:36		
11	09:00		09:45 (10)	08:05			06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		09:19 (10)	08:55		
	16:01	18	10:03 (10)	17:10			18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	22	09:41 (10)	15:36		
12	08:59		09:44 (10)	08:03			06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59		09:19 (10)	08:56		
	16:03	19	10:03 (10)	17:12			18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14	24	09:43 (10)	15:35		
13	08:58		09:44 (10)	08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		09:18 (10)	08:58		
	16:05	21	10:05 (10)	17:14			18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:26	16:12	25	09:43 (10)	15:35		
14	08:57		09:44 (10)	07:58			06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		09:18 (10)	08:59		
	16:07	21	10:05 (10)	17:17			18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	26	09:44 (10)	15:35		
15	08:56		09:44 (10)	07:56			06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06		09:19 (10)	09:00		
	16:08	23	10:07 (10)	17:19			18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08	26	09:45 (10)	15:35		
16	08:55		09:44 (10)	07:53			06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:18 (10)	09:01		
	16:10	23	10:07 (10)	17:22			18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	27	09:45 (10)	15:35		
17	08:53		09:43 (10)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		09:18 (10)	09:02		
	16:13	25	10:08 (10)	17:24			18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	28	09:46 (10)	15:35		
18	08:52		09:44 (10)	07:48			06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13		09:18 (10)	09:03		
	16:15	25	10:09 (10)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	27	09:45 (10)	15:35		
19	08:50		09:44 (10)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:19 (10)	09:03		
	16:17	26	10:10 (10)	17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	27	09:46 (10)	15:35		
20	08:49		09:44 (10)	07:43			06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:19 (10)	09:04		
	16:19	26	10:10 (10)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	27	09:46 (10)	15:36		
21	08:47		09:44 (10)	07:41			06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19		09:20 (10)	09:05		
	16:21	26	10:10 (10)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	26	09:46 (10)	15:36		
22	08:46		09:44 (10)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:20 (10)	09:05		
	16:23	27	10:11 (10)	17:36			18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	26	09:46 (10)	15:36		
23	08:44		09:44 (10)	07:35			06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:21 (10)	09:06		
	16:25	27	10:11 (10)	17:38			18:41	20:50	21:53	22:28	22:00	20:48	19:22	18:00	15:54	26	09:47 (10)	15:37		
24	08:42		09:44 (10)	07:33			06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:21 (10)	09:06		
	16:28	27	10:11 (10)	17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	25	09:46 (10)	15:38		
25	08:41		09:45 (10)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:21 (10)	09:07		
	16:30	27	10:12 (10)	17:43			18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	25	09:46 (10)	15:38		
26	08:39		09:45 (10)	07:28			06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:23 (10)	09:07		
	16:32	27	10:12 (10)	17:45			18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:49	23	09:46 (10)	15:39		
27	08:37		09:46 (10)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:23 (10)	09:07		
	16:34	26	10:12 (10)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	23	09:46 (10)	15:40		
28	08:35		09:46 (10)	07:22			06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:33		09:24 (10)	09:07		
	16:37	26	10:12 (10)	17:50			18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	21	09:45 (10)	15:41		
29	08:33		09:46 (10)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:25 (10)	09:07		
	16:39	25	10:11 (10)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	20	09:45 (10)	15:42		
30	08:31		09:47 (10)				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:26 (10)	09:07		
	16:41	24	10:11 (10)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	19	09:45 (10)	15:43		
31	08:29		09:49 (10)				06:57		04:34		05:13	06:19		07:31				09:07		
	16:44	21	10:10 (10)				19:59		22:07		21:44	20:26		16:40				15:44		
Potential sun hours	227			262			365	429	516	539	539	475	386	321	241			207		
Total, worst case		557			58											552			68	
Sun reduction		0.13			0.22											0.15			0.13	
Oper. time red.		0.93			0.93											0.93			0.93	
Wind dir. red.		0.63			0.63											0.63			0.63	
Total reduction		0.08			0.13											0.09			0.07	
Total, real		42			7											50			5	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DN - O š u iela 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:51	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DO - Paegli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:07	08:27		07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:15 (3)	08:39
	15:46	16:46		17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	2 08:17 (3)	15:43
2	09:06	08:25		07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36		08:41
	15:47	16:49		17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36		15:42
3	09:06	08:23		07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38		08:43
	15:48	16:51		17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:34		15:41
4	09:06	08:21		07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31		07:41		08:45
	15:50	16:53		17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31		15:41
5	09:05	08:19		07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43		08:46
	15:51	16:56		18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29		15:40
6	09:04	08:17		07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36		07:45		08:48
	15:53	16:58		18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27		15:39
7	09:04	08:14		07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38		07:48		08:49
	15:54	17:00		18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:25		15:38
8	09:03	08:12		07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40		07:50		08:51
	15:56	17:03		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22		15:38
9	09:02	08:10		06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52		08:52
	15:58	17:05		18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38		16:20		15:37
10	09:01	08:08	08:44 (3)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55		08:54
	15:59	17:08	5 08:49 (3)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18		15:36
11	09:00	08:05	08:40 (3)	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46		07:57		08:55
	16:01	17:10	13 08:53 (3)	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32		16:16		15:36
12	08:59	08:03	08:38 (3)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59		08:56
	16:03	17:12	17 08:55 (3)	18:17	20:26	21:32	22:22	22:17	21:16	19:53	18:29		16:14		15:36
13	08:58	08:01	08:36 (3)	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51		08:01		08:58
	16:05	17:15	20 08:56 (3)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12		15:35
14	08:57	07:58	08:36 (3)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	09:13 (3)	08:04		08:59
	16:07	17:17	22 08:58 (3)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	10 09:23 (3)	16:10		15:35
15	08:56	07:56	08:35 (3)	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	09:10 (3)	08:06		09:00
	16:09	17:19	23 08:58 (3)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	15 09:25 (3)	16:08		15:35
16	08:55	07:53	08:34 (3)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	09:08 (3)	08:08		09:01
	16:11	17:22	25 08:59 (3)	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	19 09:27 (3)	16:06		15:35
17	08:53	07:51	08:34 (3)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	09:07 (3)	08:10		09:02
	16:13	17:24	26 09:00 (3)	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	21 09:28 (3)	16:04		15:35
18	08:52	07:48	08:33 (3)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	09:05 (3)	08:13		09:03
	16:15	17:27	27 09:00 (3)	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	24 09:29 (3)	16:02		15:35
19	08:50	07:46	08:33 (3)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	09:04 (3)	08:15		09:03
	16:17	17:29	26 08:59 (3)	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	25 09:29 (3)	16:01		15:36
20	08:49	07:43	08:33 (3)	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	09:04 (3)	08:17		09:04
	16:19	17:31	27 09:00 (3)	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	26 09:30 (3)	15:59		15:36
21	08:47	07:41	08:33 (3)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	09:03 (3)	08:19		09:05
	16:21	17:34	26 08:59 (3)	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	27 09:30 (3)	15:57		15:36
22	08:46	07:38	08:33 (3)	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	09:03 (3)	08:21		09:05
	16:23	17:36	26 08:59 (3)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	27 09:30 (3)	15:56		15:37
23	08:44	07:36	08:34 (3)	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	09:03 (3)	08:23		09:06
	16:26	17:38	25 08:59 (3)	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	27 09:30 (3)	15:54		15:37
24	08:42	07:33	08:35 (3)	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	09:03 (3)	08:25		09:06
	16:28	17:41	22 08:57 (3)	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	27 09:30 (3)	15:53		15:38
25	08:41	07:30	08:35 (3)	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:03 (3)	08:28		09:07
	16:30	17:43	21 08:56 (3)	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	26 08:29 (3)	15:51		15:38
26	08:39	07:28	08:36 (3)	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:04 (3)	08:30		09:07
	16:32	17:45	18 08:54 (3)	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	25 08:29 (3)	15:50		15:39
27	08:37	07:25	08:39 (3)	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:04 (3)	08:32		09:07
	16:35	17:48	13 08:52 (3)	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	24 08:28 (3)	15:48		15:40
28	08:35	07:22	08:42 (3)	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:06 (3)	08:34		09:07
	16:37	17:50	6 08:48 (3)	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	21 08:27 (3)	15:47		15:41
29	08:33			07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:06 (3)	08:35		09:07
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	19 08:25 (3)	15:46		15:42
30	08:31			07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:08 (3)	08:37		09:07
	16:42			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	16 08:24 (3)	15:45		15:43
31	08:29			06:57		04:34		05:13	06:19		07:32	08:10 (3)			09:07
	16:44			19:59		22:07		21:44	20:26		16:41	12 08:22 (3)			15:44
Potential sun hours	227	262		365	429	515	539	538	474	386	321		241		207
Total, worst case			388									391		2	
Sun reduction			0.22									0.31		0.15	
Oper. time red.			0.93									0.93		0.93	
Wind dir. red.			0.63									0.63		0.63	
Total reduction			0.13									0.18		0.09	
Total, real			50									70		0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DP - Parka iela 6

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DQ - Parka iela 8

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DR - Pavasari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March		April	May	June
1	09:07		09:51 (2)		08:27		07:20	08:09 (5)	06:54	05:34	04:33
	15:46	13	10:04 (2)		16:46		17:52	19	08:28 (5)	20:01	21:08	22:09
2	09:06		09:51 (2)		08:25		07:17		08:09 (5)	06:51	05:31	04:32
	15:47	15	10:06 (2)		16:49		17:54	17	08:26 (5)	20:04	21:10	22:10
3	09:06		09:51 (2)		08:23		07:14		08:10 (5)	06:48	05:29	04:31
	15:48	15	10:06 (2)		16:51		17:57	14	08:24 (5)	20:06	21:12	22:12
4	09:06		09:50 (2)		08:21		07:12		07:54 (3)	06:46	05:27	04:30
	15:50	17	10:07 (2)		16:53		17:59	21	08:23 (5)	20:08	21:14	22:13
5	09:05		09:51 (2)		08:19		07:09		07:50 (3)	06:43	05:24	04:29
	15:51	18	10:09 (2)		16:56		18:01	18	08:08 (3)	20:10	21:16	22:15
6	09:04		09:51 (2)		08:17		07:06		07:47 (3)	06:40	05:22	04:28
	15:53	19	10:10 (2)		16:58		18:04	23	08:10 (3)	20:12	21:19	22:16
7	09:04		09:51 (2)		08:14		07:04		07:45 (3)	06:37	05:20	04:27
	15:54	20	10:11 (2)		17:00		18:06	26	08:11 (3)	20:15	21:21	22:17
8	09:03		09:50 (2)		08:12		07:01		07:44 (3)	06:35	05:17	04:26
	15:56	21	10:11 (2)		17:03		18:08	28	08:12 (3)	20:17	21:23	22:18
9	09:02		09:50 (2)		08:10		06:58		07:43 (3)	06:32	05:15	04:25
	15:58	22	10:12 (2)		17:05		18:10	31	08:14 (3)	20:19	21:25	22:19
10	09:01		09:51 (2)		08:08		06:55		07:42 (3)	06:29	05:13	04:24
	15:59	22	10:13 (2)		17:08		18:13	32	08:14 (3)	20:21	21:27	22:21
11	09:00		09:51 (2)		08:05		06:53		07:41 (3)	06:26	05:11	04:24
	16:01	23	10:14 (2)		17:10		18:15	34	08:15 (3)	20:23	21:29	22:22
12	08:59		09:51 (2)		08:03		06:50		07:40 (3)	06:24	05:08	04:23
	16:03	23	10:14 (2)		17:12		18:17	35	08:15 (3)	20:26	21:31	22:22
13	08:58		09:51 (2)		08:00		06:47		07:39 (3)	06:21	05:06	04:23
	16:05	24	10:15 (2)		17:15		18:19	35	08:14 (3)	20:28	21:34	22:23
14	08:57		09:51 (2)		07:58		06:44		07:39 (3)	06:18	05:04	04:22
	16:07	24	10:15 (2)		17:17		18:22	36	08:15 (3)	20:30	21:36	22:24
15	08:56		09:52 (2)		07:56		06:42		07:39 (3)	06:15	05:02	04:22
	16:09	24	10:16 (2)		17:19		18:24	36	08:15 (3)	20:32	21:38	22:25
16	08:55		09:52 (2)		07:53		06:39		07:07 (4)	06:13	05:00	04:21
	16:11	24	10:16 (2)		17:22		18:26	48	08:14 (3)	20:34	21:40	22:25
17	08:53		09:52 (2)		07:51		06:36		07:04 (4)	06:10	04:58	04:21
	16:13	24	10:16 (2)		17:24		18:28	52	08:13 (3)	20:37	21:42	22:26
18	08:52		09:53 (2)		07:48		08:18 (5)	06:33	07:03 (4)	06:07	04:56	04:21
	16:15	24	10:17 (2)		17:27	3	08:21 (5)	18:30	54	08:13 (3)	20:39	21:44	22:27
19	08:50		09:53 (2)		07:46		08:14 (5)	06:30		07:01 (4)	06:05	04:54	04:21
	16:17	24	10:17 (2)		17:29	11	08:25 (5)	18:33	54	08:11 (3)	20:41	21:46	22:27
20	08:49		09:53 (2)		07:43		08:12 (5)	06:28		07:01 (4)	06:02	04:52	04:21
	16:19	24	10:17 (2)		17:31	15	08:27 (5)	18:35	55	08:11 (3)	20:43	21:48	22:27
21	08:47		09:53 (2)		07:41		08:10 (5)	06:25		07:00 (4)	05:59	04:50	04:21
	16:21	24	10:17 (2)		17:34	18	08:28 (5)	18:37	54	08:10 (3)	20:45	21:50	22:28
22	08:46		09:54 (2)		07:38		08:09 (5)	06:22		06:59 (4)	05:57	04:48	04:21
	16:23	23	10:17 (2)		17:36	20	08:29 (5)	18:39	52	08:08 (3)	20:48	21:52	22:28
23	08:44		09:55 (2)		07:36		08:09 (5)	06:19		06:59 (4)	05:54	04:47	04:22
	16:26	22	10:17 (2)		17:38	21	08:30 (5)	18:42	49	08:06 (3)	20:50	21:54	22:28
24	08:42		09:55 (2)		07:33		08:08 (5)	06:16		06:58 (4)	05:52	04:45	04:22
	16:28	22	10:17 (2)		17:41	22	08:30 (5)	18:44	45	08:04 (3)	20:52	21:55	22:28
25	08:41		09:56 (2)		07:30		08:08 (5)	06:14		06:59 (4)	05:49	04:43	04:22
	16:30	21	10:17 (2)		17:43	22	08:30 (5)	18:46	38	08:01 (3)	20:54	21:57	22:28
26	08:39		09:57 (2)		07:28		08:07 (5)	06:11		06:59 (4)	05:46	04:42	04:23
	16:32	19	10:16 (2)		17:45	22	08:29 (5)	18:48	28	07:56 (3)	20:57	21:59	22:28
27	08:37		09:59 (2)		07:25		08:08 (5)	06:08		07:00 (4)	05:44	04:40	04:23
	16:35	17	10:16 (2)		17:48	22	08:30 (5)	18:50	20	07:20 (4)	20:59	22:01	22:28
28	08:35		10:01 (2)		07:22		08:08 (5)	06:05		07:00 (4)	05:41	04:39	04:24
	16:37	13	10:14 (2)		17:50	21	08:29 (5)	18:53	18	07:18 (4)	21:01	22:02	22:27
29	08:33		10:03 (2)					07:02		08:02 (4)	05:39	04:37	04:25
	16:39	10	10:13 (2)					19:55	13	08:15 (4)	21:03	22:04	22:27
30	08:31							07:00		08:05 (4)	05:36	04:36	04:25
	16:42							19:57	8	08:13 (4)	21:05	22:06	22:27
31	08:29							06:57				04:34	
	16:44							19:59				22:07	
Potential sun hours	227			262			365			429	515	539	
Total, worst case		591			197			993					
Sun reduction		0.13			0.22			0.37					
Oper. time red.		0.93			0.93			0.93					
Wind dir. red.		0.62			0.61			0.60					
Total reduction		0.08			0.12			0.20					
Total, real		45			25			203					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DR - Pavasari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September		October		November		December		
1	04:26	05:15	06:21		07:25		08:19 (3)	07:34		08:39	09:33 (2)
	22:26	21:42	20:24		19:00	35	08:54 (3)	16:38		15:44	23 09:56 (2)
2	04:27	05:17	06:23		07:27		08:19 (3)	07:36		08:41	09:34 (2)
	22:26	21:39	20:21		18:57	34	08:53 (3)	16:36		15:42	22 09:56 (2)
3	04:28	05:19	06:25		07:29		08:20 (3)	07:38		08:43	09:35 (2)
	22:25	21:37	20:18		18:54	33	08:53 (3)	16:34		15:41	21 09:56 (2)
4	04:29	05:22	06:27		07:31		08:20 (3)	07:41		08:45	09:35 (2)
	22:24	21:35	20:15		18:51	31	08:51 (3)	16:31		15:41	21 09:56 (2)
5	04:30	05:24	06:30		07:33		08:20 (3)	07:43		08:46	09:36 (2)
	22:24	21:33	20:13		18:49	30	08:50 (3)	16:29		15:40	20 09:56 (2)
6	04:31	05:26	06:32		07:35		08:21 (3)	07:45		08:48	09:36 (2)
	22:23	21:30	20:10		18:46	27	08:48 (3)	16:27		15:39	19 09:55 (2)
7	04:32	05:28	06:34		07:38		08:23 (3)	07:48		08:49	09:37 (2)
	22:22	21:28	20:07		18:43	24	08:47 (3)	16:25		15:38	18 09:55 (2)
8	04:34	05:30	06:36		07:40		08:24 (3)	07:50		08:51	09:39 (2)
	22:21	21:26	20:04		18:40	21	08:45 (3)	16:22		15:38	16 09:55 (2)
9	04:35	05:32	06:38		07:42		08:26 (3)	07:52		08:52	09:40 (2)
	22:20	21:23	20:01		18:38	20	08:54 (5)	16:20		15:37	16 09:56 (2)
10	04:36	05:34	06:40		07:44		08:31 (3)	07:55		08:54	09:40 (2)
	22:19	21:21	19:59		18:35	17	08:58 (5)	16:18		15:37	15 09:55 (2)
11	04:38	05:36	06:42		07:46		08:44 (5)	07:57		08:55	09:42 (2)
	22:18	21:18	19:56		18:32	16	09:00 (5)	16:16		15:36	13 09:55 (2)
12	04:39	05:38	06:44		07:49		08:43 (5)	07:59		08:56	09:42 (2)
	22:17	21:16	19:53		18:29	18	09:01 (5)	16:14		15:36	13 09:55 (2)
13	04:41	05:41	06:47	07:56 (4)	07:51		08:41 (5)	08:01	09:35 (2)	08:58	09:43 (2)
	22:15	21:14	19:50	6 08:02 (4)	18:27	20	09:01 (5)	16:12	10 09:45 (2)	15:35	11 09:54 (2)
14	04:42	05:43	06:49	07:52 (4)	07:53		08:41 (5)	08:04	09:33 (2)	08:59	09:45 (2)
	22:14	21:11	19:47	13 08:05 (4)	18:24	21	09:02 (5)	16:10	13 09:46 (2)	15:35	10 09:55 (2)
15	04:44	05:45	06:51	07:50 (4)	07:55		08:40 (5)	08:06	09:32 (2)	09:00	09:46 (2)
	22:13	21:09	19:45	17 08:07 (4)	18:21	22	09:02 (5)	16:08	16 09:48 (2)	15:35	9 09:55 (2)
16	04:45	05:47	06:53	07:48 (4)	07:57		08:39 (5)	08:08	09:30 (2)	09:01	09:47 (2)
	22:11	21:06	19:42	20 08:08 (4)	18:19	23	09:02 (5)	16:06	19 09:49 (2)	15:35	8 09:55 (2)
17	04:47	05:49	06:55	07:48 (4)	08:00		08:40 (5)	08:10	09:30 (2)	09:02	09:48 (2)
	22:10	21:04	19:39	21 08:09 (4)	18:16	22	09:02 (5)	16:04	21 09:51 (2)	15:35	7 09:55 (2)
18	04:49	05:51	06:57	07:47 (4)	08:02		08:40 (5)	08:13	09:29 (2)	09:03	09:49 (2)
	22:08	21:01	19:36	37 08:48 (3)	18:13	21	09:01 (5)	16:02	22 09:51 (2)	15:35	6 09:55 (2)
19	04:50	05:53	06:59	07:46 (4)	08:04		08:39 (5)	08:15	09:30 (2)	09:03	09:49 (2)
	22:06	20:58	19:33	44 08:51 (3)	18:11	21	09:00 (5)	16:01	22 09:52 (2)	15:36	5 09:54 (2)
20	04:52	05:56	07:01	07:45 (4)	08:06		08:41 (5)	08:17	09:29 (2)	09:04	09:50 (2)
	22:05	20:56	19:31	48 08:52 (3)	18:08	19	09:00 (5)	15:59	23 09:52 (2)	15:36	4 09:54 (2)
21	04:54	05:58	07:03	07:45 (4)	08:09		08:41 (5)	08:19	09:29 (2)	09:05	09:51 (2)
	22:03	20:53	19:28	51 08:53 (3)	18:06	17	08:58 (5)	15:57	24 09:53 (2)	15:36	4 09:55 (2)
22	04:56	06:00	07:06	07:44 (4)	08:11		08:43 (5)	08:21	09:29 (2)	09:05	09:51 (2)
	22:01	20:51	19:25	53 08:54 (3)	18:03	14	08:57 (5)	15:56	24 09:53 (2)	15:37	4 09:55 (2)
23	04:58	06:02	07:08	07:44 (4)	08:13		08:45 (5)	08:23	09:30 (2)	09:06	09:52 (2)
	22:00	20:48	19:22	55 08:55 (3)	18:00	9	08:54 (5)	15:54	24 09:54 (2)	15:37	4 09:56 (2)
24	05:00	06:04	07:10	07:45 (4)	08:15			08:25	09:30 (2)	09:06	09:52 (2)
	21:58	20:45	19:19	54 08:55 (3)	17:58			15:53	24 09:54 (2)	15:38	4 09:56 (2)
25	05:01	06:06	07:12	07:45 (4)	07:18			08:28	09:30 (2)	09:07	09:52 (2)
	21:56	20:43	19:16	54 08:55 (3)	16:55			15:51	24 09:54 (2)	15:38	5 09:57 (2)
26	05:03	06:08	07:14	07:46 (4)	07:20			08:30	09:31 (2)	09:07	09:52 (2)
	21:54	20:40	19:14	52 08:55 (3)	16:53			15:50	24 09:55 (2)	15:39	6 09:58 (2)
27	05:05	06:10	07:16	07:48 (4)	07:22			08:32	09:31 (2)	09:07	09:52 (2)
	21:52	20:37	19:11	50 08:56 (3)	16:50			15:48	24 09:55 (2)	15:40	7 09:59 (2)
28	05:07	06:13	07:18	07:51 (4)	07:25			08:34	09:31 (2)	09:07	09:52 (2)
	21:50	20:35	19:08	43 08:56 (3)	16:48			15:47	24 09:55 (2)	15:41	8 10:00 (2)
29	05:09	06:15	07:20	08:19 (3)	07:27			08:35	09:31 (2)	09:07	09:52 (2)
	21:48	20:32	19:05	36 08:55 (3)	16:45			15:46	24 09:55 (2)	15:42	10 10:02 (2)
30	05:11	06:17	07:23	08:19 (3)	07:29			08:37	09:33 (2)	09:07	09:52 (2)
	21:46	20:29	19:02	36 08:55 (3)	16:43			15:45	23 09:56 (2)	15:43	11 10:03 (2)
31	05:13	06:19			07:32					09:07	09:51 (2)
	21:44	20:26			16:41					15:44	12 10:03 (2)
Potential sun hours	538	474	386		321			241		207	
Total, worst case				690		515			385		352
Sun reduction				0.43		0.31			0.15		0.13
Oper. time red.				0.93		0.93			0.93		0.93
Wind dir. red.				0.61		0.60			0.62		0.62
Total reduction				0.24		0.17			0.09		0.07
Total, real				167		88			34		26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DS - Pavuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March		April	May	June
1	09:07	11:14 (1)	08:27		07:20	08:04 (10)	06:54	05:34	04:33
	15:46	62 13:39 (3)	16:46		17:52	25 08:29 (10)	20:01	21:08	22:09
2	09:06	11:15 (1)	08:25		07:17	08:04 (10)	06:51	05:31	04:32
	15:47	60 13:39 (3)	16:48		17:54	24 08:28 (10)	20:03	21:10	22:10
3	09:06	11:15 (1)	08:23		07:14	08:04 (10)	06:48	05:29	04:30
	15:48	57 13:39 (3)	16:51		17:57	23 08:27 (10)	20:06	21:12	22:12
4	09:06	11:16 (1)	08:21		07:12	08:05 (10)	06:46	05:26	04:29
	15:50	54 13:38 (3)	16:53		17:59	22 08:27 (10)	20:08	21:14	22:13
5	09:05	11:19 (1)	08:19		07:09	08:06 (10)	06:43	05:24	04:28
	15:51	49 13:39 (3)	16:55		18:01	20 08:26 (10)	20:10	21:16	22:15
6	09:04	11:21 (1)	08:17		07:06	08:07 (10)	06:40	05:22	04:27
	15:53	44 13:39 (3)	16:58		18:03	17 08:24 (10)	20:12	21:19	22:16
7	09:04	11:45 (4)	08:14		07:03	08:09 (10)	06:37	05:19	04:26
	15:54	34 13:38 (3)	17:00		18:06	12 08:21 (10)	20:14	21:21	22:17
8	09:03	11:46 (4)	08:12		07:01	08:13 (10)	06:34	05:17	04:26
	15:56	31 13:38 (3)	17:03		18:08	2 08:15 (10)	20:17	21:23	22:18
9	09:02	11:47 (4)	08:10		06:58		06:32	05:15	04:25
	15:57	26 13:36 (3)	17:05		18:10		20:19	21:25	22:19
10	09:01	11:49 (4)	08:08		06:55		06:29	05:13	04:24
	15:59	20 13:35 (3)	17:07		18:12		20:21	21:27	22:21
11	09:00	11:51 (4)	08:05		06:52		06:26	05:10	04:23
	16:01	11 12:02 (4)	17:10		18:15		20:23	21:29	22:22
12	08:59	11:53 (4)	08:03		06:50		06:23	05:08	04:23
	16:03	6 11:59 (4)	17:12		18:17		20:26	21:31	22:22
13	08:58		08:00		06:47		06:21	05:06	04:22
	16:05		17:15		18:19		20:28	21:34	22:23
14	08:57		07:58		06:44		06:18	05:04	04:22
	16:07		17:17		18:21		20:30	21:36	22:24
15	08:56		07:56		06:41		06:15	05:02	04:22
	16:09		17:19		18:24		20:32	21:38	22:25
16	08:55		07:53		06:39		06:13	05:00	04:21
	16:11		17:22		18:26		20:34	21:40	22:25
17	08:53		07:51		06:36		06:10	04:58	04:21
	16:13		17:24		18:28		20:37	21:42	22:26
18	08:52		07:48		06:33		06:07	04:56	04:21
	16:15		17:26		18:30		20:39	21:44	22:27
19	08:50		07:46		06:30		06:05	04:54	04:21
	16:17		17:29		18:33		20:41	21:46	22:27
20	08:49		07:43	08:15 (10)	06:27		06:02	04:52	04:21
	16:19		17:31	6 08:21 (10)	18:35		20:43	21:48	22:27
21	08:47		07:41	08:11 (10)	06:25		05:59	04:50	04:21
	16:21		17:33	13 08:24 (10)	18:37		20:45	21:50	22:28
22	08:46		07:38	08:09 (10)	06:22		05:57	04:48	04:21
	16:23		17:36	17 08:26 (10)	18:39		20:48	21:52	22:28
23	08:44		07:35	08:07 (10)	06:19		05:54	04:47	04:21
	16:25		17:38	20 08:27 (10)	18:41		20:50	21:53	22:28
24	08:42		07:33	08:07 (10)	06:16		05:51	04:45	04:22
	16:28		17:40	21 08:28 (10)	18:44		20:52	21:55	22:28
25	08:41		07:30	08:05 (10)	06:13		05:49	04:43	04:22
	16:30		17:43	24 08:29 (10)	18:46		20:54	21:57	22:28
26	08:39		07:28	08:05 (10)	06:11		05:46	04:42	04:23
	16:32		17:45	24 08:29 (10)	18:48		20:57	21:59	22:28
27	08:37		07:25	08:04 (10)	06:08		05:44	04:40	04:23
	16:34		17:47	25 08:29 (10)	18:50		20:59	22:01	22:28
28	08:35		07:22	08:04 (10)	06:05		05:41	04:38	04:24
	16:37		17:50	25 08:29 (10)	18:52		21:01	22:02	22:27
29	08:33				07:02		05:39	04:37	04:24
	16:39				19:55		21:03	22:04	22:27
30	08:31				06:59		05:36	04:36	04:25
	16:41				19:57		21:05	22:06	22:27
31	08:29				06:57			04:34	
	16:44				19:59			22:07	
Potential sun hours	227		262		365		429	515	539
Total, worst case		454		175		145			
Sun reduction		0.13		0.22		0.37			
Oper. time red.		0.93		0.93		0.93			
Wind dir. red.		0.65		0.61		0.61			
Total reduction		0.08		0.12		0.21			
Total, real		36		22		30			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DS - Pavuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October			November			December		
1	04:26	05:15	06:21	07:25			07:34			08:39		11:33 (4)
	22:26	21:42	20:24	19:00			16:38			15:43	11	11:44 (4)
2	04:27	05:17	06:23	07:27			07:36			08:41		11:32 (4)
	22:26	21:39	20:21	18:57			16:36			15:42	19	13:18 (3)
3	04:28	05:19	06:25	07:29			07:38			08:43		11:31 (4)
	22:25	21:37	20:18	18:54			16:33			15:41	25	13:20 (3)
4	04:29	05:21	06:27	07:31			07:41			08:44		11:31 (4)
	22:24	21:35	20:15	18:51			16:31			15:40	29	13:22 (3)
5	04:30	05:23	06:29	07:33			07:43			08:46		11:30 (4)
	22:24	21:33	20:12	18:48			16:29			15:40	35	13:24 (3)
6	04:31	05:26	06:32	07:35		08:47 (10)	07:45			08:48		11:07 (1)
	22:23	21:30	20:10	18:46	9	08:56 (10)	16:27			15:39	44	13:25 (3)
7	04:32	05:28	06:34	07:38		08:43 (10)	07:48			08:49		11:05 (1)
	22:22	21:28	20:07	18:43	15	08:58 (10)	16:24			15:38	49	13:25 (3)
8	04:33	05:30	06:36	07:40		08:42 (10)	07:50			08:51		11:05 (1)
	22:21	21:26	20:04	18:40	18	09:00 (10)	16:22			15:37	52	13:26 (3)
9	04:35	05:32	06:38	07:42		08:40 (10)	07:52			08:52		11:05 (1)
	22:20	21:23	20:01	18:37	21	09:01 (10)	16:20			15:37	56	13:28 (3)
10	04:36	05:34	06:40	07:44		08:39 (10)	07:54			08:54		11:04 (1)
	22:19	21:21	19:59	18:35	22	09:01 (10)	16:18			15:36	59	13:28 (3)
11	04:37	05:36	06:42	07:46		08:39 (10)	07:57			08:55		11:04 (1)
	22:18	21:18	19:56	18:32	23	09:02 (10)	16:16			15:36	62	13:29 (3)
12	04:39	05:38	06:44	07:49		08:38 (10)	07:59			08:56		11:04 (1)
	22:17	21:16	19:53	18:29	24	09:02 (10)	16:14			15:36	64	13:30 (3)
13	04:40	05:40	06:46	07:51		08:37 (10)	08:01			08:58		11:04 (1)
	22:15	21:14	19:50	18:27	25	09:02 (10)	16:12			15:35	64	13:30 (3)
14	04:42	05:43	06:48	07:53		08:37 (10)	08:04			08:59		11:04 (1)
	22:14	21:11	19:47	18:24	25	09:02 (10)	16:10			15:35	67	13:31 (3)
15	04:43	05:45	06:51	07:55		08:37 (10)	08:06			09:00		11:04 (1)
	22:13	21:09	19:44	18:21	24	09:01 (10)	16:08			15:35	68	13:32 (3)
16	04:45	05:47	06:53	07:57		08:37 (10)	08:08			09:01		11:05 (1)
	22:11	21:06	19:42	18:19	24	09:01 (10)	16:06			15:35	69	13:32 (3)
17	04:47	05:49	06:55	08:00		08:38 (10)	08:10			09:02		11:05 (1)
	22:10	21:03	19:39	18:16	22	09:00 (10)	16:04			15:35	69	13:33 (3)
18	04:48	05:51	06:57	08:02		08:38 (10)	08:13			09:03		11:05 (1)
	22:08	21:01	19:36	18:13	21	08:59 (10)	16:02			15:35	71	13:34 (3)
19	04:50	05:53	06:59	08:04		08:38 (10)	08:15			09:03		11:05 (1)
	22:06	20:58	19:33	18:11	19	08:57 (10)	16:00			15:35	70	13:33 (3)
20	04:52	05:55	07:01	08:06		08:40 (10)	08:17			09:04		11:06 (1)
	22:05	20:56	19:30	18:08	16	08:56 (10)	15:59			15:36	70	13:34 (3)
21	04:54	05:57	07:03	08:09		08:42 (10)	08:19			09:05		11:07 (1)
	22:03	20:53	19:28	18:05	12	08:54 (10)	15:57			15:36	72	13:35 (3)
22	04:56	06:00	07:05	08:11			08:21			09:05		11:07 (1)
	22:01	20:50	19:25	18:03			15:55			15:36	72	13:35 (3)
23	04:57	06:02	07:08	08:13			08:23			09:06		11:08 (1)
	22:00	20:48	19:22	18:00			15:54			15:37	71	13:36 (3)
24	04:59	06:04	07:10	08:15			08:25			09:06		11:08 (1)
	21:58	20:45	19:19	17:58			15:52			15:38	70	13:36 (3)
25	05:01	06:06	07:12	07:18			08:27			09:07		11:08 (1)
	21:56	20:42	19:16	16:55			15:51			15:38	70	13:36 (3)
26	05:03	06:08	07:14	07:20			08:30			09:07		11:09 (1)
	21:54	20:40	19:14	16:53			15:50			15:39	70	13:37 (3)
27	05:05	06:10	07:16	07:22			08:32			09:07		11:09 (1)
	21:52	20:37	19:11	16:50			15:48			15:40	70	13:37 (3)
28	05:07	06:12	07:18	07:25			08:33			09:07		11:10 (1)
	21:50	20:34	19:08	16:48			15:47			15:41	68	13:38 (3)
29	05:09	06:15	07:20	07:27			08:35			09:07		11:11 (1)
	21:48	20:32	19:05	16:45			15:46			15:42	67	13:38 (3)
30	05:11	06:17	07:22	07:29			08:37		11:36 (4)	09:07		11:12 (1)
	21:46	20:29	19:02	16:43			15:44	5	11:41 (4)	15:43	65	13:39 (3)
31	05:13	06:19		07:31						09:07		11:12 (1)
	21:44	20:26		16:40						15:44	64	13:38 (3)
Potential sun hours	538	475	386	321			241			207		
Total, worst case					320			5			1812	
Sun reduction					0.31			0.15			0.13	
Oper. time red.					0.93			0.93			0.93	
Wind dir. red.					0.61			0.65			0.64	
Total reduction					0.17			0.09			0.08	
Total, real					55			0			138	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DT - Pecinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March		April	May	June	July	August	September		October		November	December
1	09:07	08:27	07:20		06:54	05:34	04:33	04:26	05:15	06:21		07:25		07:34	08:39
	15:46	16:46	17:52		20:01	21:08	22:09	22:26	21:42	20:24		19:00	18	08:35 (3)	16:38	15:44
2	09:06	08:25	07:17		07:44 (3)	06:51	05:32	04:32	04:27	05:17	06:23		07:27		08:17 (3)	07:36	08:41
	15:47	16:49	17:54	11	07:55 (3)	20:04	21:10	22:10	22:26	21:39	20:21		18:57	19	08:36 (3)	16:36	15:42
3	09:06	08:23	07:14		07:43 (3)	06:48	05:29	04:31	04:28	05:20	06:25		07:29		08:16 (3)	07:38	08:43
	15:48	16:51	17:57	14	07:57 (3)	20:06	21:12	22:12	22:25	21:37	20:18		18:54	21	08:37 (3)	16:34	15:42
4	09:06	08:21	07:12		07:41 (3)	06:46	05:27	04:30	04:29	05:22	06:28		07:31		08:15 (3)	07:41	08:45
	15:50	16:53	17:59	17	07:58 (3)	20:08	21:14	22:13	22:25	21:35	20:15		18:51	21	08:36 (3)	16:31	15:41
5	09:05	08:19	07:09		07:39 (3)	06:43	05:24	04:29	04:30	05:24	06:30		07:33		08:14 (3)	07:43	08:46
	15:51	16:56	18:01	20	07:59 (3)	20:10	21:16	22:15	22:24	21:33	20:13		18:49	22	08:36 (3)	16:29	15:40
6	09:04	08:17	07:06		07:38 (3)	06:40	05:22	04:28	04:31	05:26	06:32		07:36		08:14 (3)	07:45	08:48
	15:53	16:58	18:04	21	07:59 (3)	20:12	21:19	22:16	22:23	21:30	20:10		18:46	21	08:35 (3)	16:27	15:39
7	09:04	08:14	07:04		07:37 (3)	06:37	05:20	04:27	04:32	05:28	06:34		07:38		08:14 (3)	07:48	08:49
	15:54	17:00	18:06	22	07:59 (3)	20:15	21:21	22:17	22:22	21:28	20:07		18:43	22	08:36 (3)	16:25	15:38
8	09:03	08:12	07:01		07:38 (3)	06:35	05:17	04:26	04:34	05:30	06:36		07:40		08:14 (3)	07:50	08:51
	15:56	17:03	18:08	22	08:00 (3)	20:17	21:23	22:18	22:21	21:26	20:04		18:40	21	08:35 (3)	16:22	15:38
9	09:02	08:10	06:58		07:37 (3)	06:32	05:15	04:25	04:35	05:32	06:38		07:42		08:14 (3)	07:52	08:52
	15:58	17:05	18:10	22	07:59 (3)	20:19	21:25	22:20	22:20	21:23	20:01		18:38	19	08:33 (3)	16:20	15:37
10	09:01	08:08	06:55		07:37 (3)	06:29	05:13	04:24	04:36	05:34	06:40		07:44		08:15 (3)	07:55	08:54
	15:59	17:08	18:13	22	07:59 (3)	20:21	21:27	22:21	22:19	21:21	19:59		18:35	17	08:32 (3)	16:18	15:37
11	09:00	08:05	06:53		07:37 (3)	06:26	05:11	04:24	04:38	05:36	06:42		07:46		08:17 (3)	07:57	08:55
	16:01	17:10	18:15	21	07:58 (3)	20:23	21:29	22:22	22:18	21:19	19:56		18:32	13	08:30 (3)	16:16	15:36
12	08:59	08:03	06:50		07:38 (3)	06:24	05:08	04:23	04:39	05:38	06:44		07:49		08:20 (3)	07:59	08:56
	16:03	17:12	18:17	18	07:56 (3)	20:26	21:32	22:23	22:17	21:16	19:53		18:29	7	08:27 (3)	16:14	15:36
13	08:58	08:01	06:47		07:39 (3)	06:21	05:06	04:23	04:41	05:41	06:47		07:51			08:01	08:58
	16:05	17:15	18:19	16	07:55 (3)	20:28	21:34	22:23	22:15	21:14	19:50		18:27			16:12	15:36
14	08:57	07:58	06:44		07:41 (3)	06:18	05:04	04:22	04:42	05:43	06:49		07:53			08:04	08:59
	16:07	17:17	18:22	12	07:53 (3)	20:30	21:36	22:24	22:14	21:11	19:47		18:24			16:10	15:35
15	08:56	07:56	06:42		07:44 (3)	06:15	05:02	04:22	04:44	05:45	06:51		07:55			08:06	09:00
	16:09	17:19	18:24	5	07:49 (3)	20:32	21:38	22:25	22:13	21:09	19:45		18:21			16:08	15:35
16	08:55	07:53	06:39			06:13	05:00	04:22	04:45	05:47	06:53		07:58			08:08	09:01
	16:11	17:22	18:26			20:34	21:40	22:26	22:11	21:06	19:42		18:19			16:06	15:35
17	08:53	07:51	06:36			06:10	04:58	04:21	04:47	05:49	06:55		08:00			08:10	09:02
	16:13	17:24	18:28			20:37	21:42	22:26	22:10	21:04	19:39		18:16			16:04	15:35
18	08:52	07:48	06:33			06:07	04:56	04:21	04:49	05:51	06:57		08:02			08:13	09:03
	16:15	17:27	18:31			20:39	21:44	22:27	22:08	21:01	19:36		18:13			16:02	15:35
19	08:50	07:46	06:30			06:05	04:54	04:21	04:50	05:53	06:59		08:04			08:15	09:03
	16:17	17:29	18:33			20:41	21:46	22:27	22:07	20:58	19:33		18:11			16:01	15:36
20	08:49	07:43	06:28			06:02	04:52	04:21	04:52	05:56	07:01		08:06			08:17	09:04
	16:19	17:31	18:35			20:43	21:48	22:27	22:05	20:56	19:31		18:08			15:59	15:36
21	08:47	07:41	06:25			05:59	04:50	04:21	04:54	05:58	07:03		08:09			08:19	09:05
	16:21	17:34	18:37			20:46	21:50	22:28	22:03	20:53	19:28		18:06			15:57	15:36
22	08:46	07:38	06:22			05:57	04:49	04:21	04:56	06:00	07:06		08:11			08:21	09:05
	16:23	17:36	18:39			20:48	21:52	22:28	22:01	20:51	19:25		18:03			15:56	15:37
23	08:44	07:36	06:19			05:54	04:47	04:22	04:58	06:02	07:08		08:13			08:23	09:06
	16:26	17:38	18:42			20:50	21:54	22:28	22:00	20:48	19:22		18:00			15:54	15:37
24	08:42	07:33	06:16			05:52	04:45	04:22	05:00	06:04	07:10		08:16			08:26	09:06
	16:28	17:41	18:44			20:52	21:55	22:28	21:58	20:45	19:19		17:58			15:53	15:38
25	08:41	07:30	06:14			05:49	04:43	04:22	05:01	06:06	07:12		07:18			08:28	09:07
	16:30	17:43	18:46			20:54	21:57	22:28	21:56	20:43	19:16		16:55			15:51	15:39
26	08:39	07:28	06:11			05:47	04:42	04:23	05:03	06:08	07:14		07:20			08:30	09:07
	16:32	17:45	18:48			20:57	21:59	22:28	21:54	20:40	19:14		16:53			15:50	15:39
27	08:37	07:25	06:08			05:44	04:40	04:23	05:05	06:11	07:16		07:22			08:32	09:07
	16:35	17:48	18:50			20:59	22:01	22:28	21:52	20:37	19:11		16:50			15:48	15:40
28	08:35	07:22	06:05			05:41	04:39	04:24	05:07	06:13	07:18		07:25			08:34	09:07
	16:37	17:50	18:53			21:01	22:03	22:28	21:50	20:35	19:08		16:48			15:47	15:41
29	08:33		07:02			05:39	04:37	04:25	05:09	06:15	07:20	08:22 (3)	07:27			08:36	09:07
	16:39		19:55			21:03	22:04	22:27	21:48	20:32	19:05	10 08:32 (3)	16:45			15:46	15:42
30	08:31		07:00			05:36	04:36	04:25	05:11	06:17	07:23	08:19 (3)	07:29			08:37	09:07
	16:42		19:57			21:05	22:06	22:27	21:46	20:29	19:02	15 08:34 (3)	16:43			15:45	15:43
31	08:29		06:57				04:34		05:13	06:19			07:32				09:07
	16:44		19:59				22:07		21:44	20:26			16:41				15:44
Potential sun hours	227	262	365		429	515	539	538	474	386		321		241	207
Total, worst case				243							25		221		
Sun reduction				0.37							0.43		0.31		
Oper. time red.				0.93							0.93		0.93		
Wind dir. red.				0.59							0.59		0.59		
Total reduction				0.20							0.24		0.17		
Total, real				49							6		37		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DU - Pietes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	16:00	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:22	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:04	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:01	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DV - Plesini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	17:43 (8)	05:34	04:33	04:26	05:15	06:21	17:48 (8)	07:24	17:49 (8)	07:33	08:39
	15:45	16:46	17:52	20:01 53	18:36 (8)	21:07	22:08	22:26	21:41	20:23 36	18:24 (8)	18:59 10	17:59 (8)	16:38	15:43
2	09:06	08:25	07:17	06:51	17:43 (8)	05:31	04:32	04:27	05:17	06:23	17:46 (8)	07:26		07:36	08:41
	15:47	16:48	17:54	20:03 52	18:35 (8)	21:09	22:10	22:25	21:39	20:20 39	18:25 (8)	18:57		16:36	15:42
3	09:06	08:23	07:14	06:48	17:43 (8)	05:29	04:30	04:28	05:19	06:25	17:45 (8)	07:29		07:38	08:42
	15:48	16:51	17:56	20:05 51	18:34 (8)	21:12	22:11	22:25	21:37	20:18 41	18:26 (8)	18:54		16:33	15:41
4	09:05	08:21	07:11	06:45	17:43 (8)	05:26	04:29	04:29	05:21	06:27	17:43 (8)	07:31		07:40	08:44
	15:49	16:53	17:59	20:08 50	18:33 (8)	21:14	22:13	22:24	21:35	20:15 44	18:27 (8)	18:51		16:31	15:40
5	09:05	08:18	07:09	06:43	17:44 (8)	05:24	04:28	04:30	05:23	06:29	17:41 (8)	07:33		07:43	08:46
	15:51	16:55	18:01	20:10 49	18:33 (8)	21:16	22:14	22:23	21:32	20:12 46	18:27 (8)	18:48		16:29	15:39
6	09:04	08:16	07:06	06:40	17:44 (8)	05:22	04:27	04:31	05:25	06:31	17:40 (8)	07:35		07:45	08:47
	15:52	16:58	18:03	20:12 48	18:32 (8)	21:18	22:15	22:22	21:30	20:09 48	18:28 (8)	18:45		16:26	15:39
7	09:03	08:14	07:03	06:37	17:44 (8)	05:19	04:26	04:32	05:28	06:34	17:39 (8)	07:37		07:47	08:49
	15:54	17:00	18:05	20:14 46	18:30 (8)	21:20	22:17	22:22	21:28	20:07 49	18:28 (8)	18:43		16:24	15:38
8	09:03	08:12	07:00	06:34	17:45 (8)	05:17	04:26	04:33	05:30	06:36	17:38 (8)	07:39		07:50	08:50
	15:56	17:02	18:08	20:16 44	18:29 (8)	21:22	22:18	22:21	21:25	20:04 50	18:28 (8)	18:40		16:22	15:37
9	09:02	08:09	06:58	06:31	17:47 (8)	05:15	04:25	04:35	05:32	06:38	17:37 (8)	07:42		07:52	08:52
	15:57	17:05	18:10	20:19 41	18:28 (8)	21:25	22:19	22:20	21:23	20:01 51	18:28 (8)	18:37		16:20	15:37
10	09:01	08:07	06:55	06:29	17:47 (8)	05:12	04:24	04:36	05:34	06:40	17:36 (8)	07:44		07:54	08:53
	15:59	17:07	18:12	20:21 39	18:26 (8)	21:27	22:20	22:18	21:20	19:58 52	18:28 (8)	18:34		16:18	15:36
11	09:00	08:05	06:52	06:26	17:48 (8)	05:10	04:23	04:37	05:36	06:42	17:35 (8)	07:46		07:56	08:55
	16:01	17:10	18:15	20:23 36	18:24 (8)	21:29	22:21	22:17	21:18	19:55 53	18:28 (8)	18:32		16:16	15:36
12	08:59	08:02	06:49	06:23	17:51 (8)	05:08	04:23	04:39	05:38	06:44	17:34 (8)	07:48		07:59	08:56
	16:03	17:12	18:17	20:25 32	18:23 (8)	21:31	22:22	22:16	21:16	19:53 54	18:28 (8)	18:29		16:14	15:36
13	08:58	08:00	06:47 17:06 (8)	06:21	17:53 (8)	05:06	04:22	04:40	05:40	06:46	17:34 (8)	07:50		08:01	08:57
	16:05	17:14	18:19 17 17:23 (8)	20:27 27	18:20 (8)	21:33	22:23	22:15	21:13	19:50 54	18:28 (8)	18:26		16:12	15:35
14	08:57	07:58	06:44 17:02 (8)	06:18	17:56 (8)	05:04	04:22	04:42	05:42	06:48	17:33 (8)	07:53		08:03	08:58
	16:07	17:17	18:21 24 17:26 (8)	20:30 22	18:18 (8)	21:35	22:24	22:13	21:11	19:47 54	18:27 (8)	18:24		16:10	15:35
15	08:55	07:55	06:41 16:59 (8)	06:15	17:59 (8)	05:02	04:22	04:43	05:45	06:50	17:33 (8)	07:55		08:05	08:59
	16:08	17:19	18:23 29 17:28 (8)	20:32 14	18:13 (8)	21:37	22:24	22:12	21:08	19:44 54	18:27 (8)	18:21		16:08	15:35
16	08:54	07:53	06:38 16:57 (8)	06:12		05:00	04:21	04:45	05:47	06:52	17:32 (8)	07:57		08:08	09:00
	16:10	17:21	18:26 34 17:31 (8)	20:34		21:39	22:25	22:11	21:06	19:41 54	18:26 (8)	18:18		16:06	15:35
17	08:53	07:50	06:36 16:55 (8)	06:10		04:58	04:21	04:47	05:49	06:55	17:32 (8)	07:59		08:10	09:01
	16:13	17:24	18:28 37 17:32 (8)	20:36		21:41	22:26	22:09	21:03	19:39 53	18:25 (8)	18:16		16:04	15:35
18	08:51	07:48	06:33 16:53 (8)	06:07		04:56	04:21	04:48	05:51	06:57	17:32 (8)	08:02		08:12	09:02
	16:15	17:26	18:30 40 17:33 (8)	20:38		21:43	22:26	22:08	21:01	19:36 53	18:25 (8)	18:13		16:02	15:35
19	08:50	07:45	06:30 16:51 (8)	06:04		04:54	04:21	04:50	05:53	06:59	17:32 (8)	08:04		08:14	09:03
	16:17	17:29	18:32 43 17:34 (8)	20:41		21:45	22:26	22:06	20:58	19:33 52	18:24 (8)	18:10		16:00	15:35
20	08:48	07:43	06:27 16:49 (8)	06:02		04:52	04:21	04:52	05:55	07:01	17:32 (8)	08:06		08:17	09:04
	16:19	17:31	18:35 46 17:35 (8)	20:43		21:47	22:27	22:04	20:55	19:30 51	18:23 (8)	18:08		15:59	15:36
21	08:47	07:40	06:24 16:48 (8)	05:59		04:50	04:21	04:54	05:57	07:03	17:33 (8)	08:08		08:19	09:04
	16:21	17:33	18:37 47 17:35 (8)	20:45		21:49	22:27	22:03	20:53	19:27 50	18:23 (8)	18:05		15:57	15:36
22	08:45	07:38	06:22 16:48 (8)	05:57		04:48	04:21	04:56	05:59	07:05	17:33 (8)	08:11		08:21	09:05
	16:23	17:36	18:39 49 17:37 (8)	20:47		21:51	22:27	22:01	20:50	19:25 48	18:21 (8)	18:03		15:55	15:36
23	08:44	07:35	06:19 16:47 (8)	05:54		04:46	04:21	04:57	06:02	07:07	17:34 (8)	08:13		08:23	09:05
	16:25	17:38	18:41 50 17:37 (8)	20:50		21:53	22:27	21:59	20:47	19:22 46	18:20 (8)	18:00		15:54	15:37
24	08:42	07:33	06:16 16:45 (8)	05:51		04:45	04:22	04:59	06:04	07:09	17:34 (8)	08:15		08:25	09:06
	16:28	17:40	18:43 52 17:37 (8)	20:52		21:55	22:28	21:57	20:45	19:19 44	18:18 (8)	17:58		15:52	15:38
25	08:40	07:30	06:13 16:45 (8)	05:49		04:43	04:22	05:01	06:06	07:12	17:35 (8)	07:17		08:27	09:06
	16:30	17:43	18:46 52 17:37 (8)	20:54		21:57	22:28	21:55	20:42	19:16 42	18:17 (8)	16:55		15:51	15:38
26	08:38	07:27	06:10 16:44 (8)	05:46		04:41	04:23	05:03	06:08	07:14	17:36 (8)	07:20		08:29	09:06
	16:32	17:45	18:48 53 17:37 (8)	20:56		21:59	22:27	21:53	20:39	19:13 39	18:15 (8)	16:53		15:49	15:39
27	08:37	07:25	06:08 16:44 (8)	05:44		04:40	04:23	05:05	06:10	07:16	17:37 (8)	07:22		08:31	09:07
	16:34	17:47	18:50 53 17:37 (8)	20:58		22:00	22:27	21:51	20:37	19:10 36	18:13 (8)	16:50		15:48	15:40
28	08:35	07:22	06:05 16:43 (8)	05:41		04:38	04:24	05:07	06:12 18:01 (8)	07:18	17:39 (8)	07:24		08:33	09:07
	16:37	17:49	18:52 54 17:37 (8)	21:01		22:02	22:27	21:49	20:34 14 18:15 (8)	19:08 31	18:10 (8)	16:48		15:47	15:41
29	08:33		07:02 17:43 (8)	05:39		04:37	04:24	05:09	06:14 17:56 (8)	07:20	17:42 (8)	07:26		08:35	09:07
	16:39		19:54 54 18:37 (8)	21:03		22:04	22:27	21:47	20:31 23 18:19 (8)	19:05 26	18:08 (8)	16:45		15:46	15:42
30	08:31		06:59 17:42 (8)	05:36		04:35	04:25	05:11	06:17 17:53 (8)	07:22	17:44 (8)	07:29		08:37	09:07
	16:41		19:57 54 18:36 (8)	21:05		22:05	22:26	21:45	20:29 28 18:21 (8)	19:02 21	18:05 (8)	16:43		15:44	15:43
31	08:29		06:56 17:42 (8)			04:34		05:13	06:19 17:51 (8)			07:31			09:06
	16:44		19:59 54 18:36 (8)			22:07		21:43	20:26 32 18:23 (8)			16:40			15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case			842	604				97	1371	10		
Sun reduction			0.37	0.46				0.55	0.43	0.31		
Oper. time red.			0.93	0.93				0.93	0.93	0.93		
Wind dir. red.			0.64	0.64				0.64	0.64	0.64		
Total reduction			0.22	0.27				0.33	0.26	0.18		
Total, real			184	166				32	351	2		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DW - Podnieki A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:20	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DX - Podnieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:01	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DY - Purmali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:26	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:28	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:07	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:08	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:52	16:57	18:03	20:12	21:18	22:16	22:22	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:49	08:50
	15:55	17:02	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:18	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:15	15:36
12	08:59	08:02	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:55	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:05	08:59
	16:08	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:00
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:38	18:15	16:04	15:35
18	08:51	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:01	08:12	09:02
	16:14	17:26	18:30	20:38	21:43	22:26	22:08	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:16	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:10	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:27	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:28	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:42	18:45	20:54	21:57	22:28	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:13	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:39	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:05	22:26	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: DZ - Pucites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		09:53 (1)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:38 (1)
	15:46	65	12:31 (3)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	49	10:44 (4)
2	09:06		09:53 (1)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:38 (1)
	15:47	63	12:30 (3)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	51	10:45 (4)
3	09:06		09:53 (1)	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		09:38 (1)
	15:48	63	12:30 (3)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	51	10:45 (4)
4	09:06		09:53 (1)	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		09:39 (1)
	15:50	61	12:29 (3)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	51	10:46 (4)
5	09:05		09:54 (1)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:30	07:33	07:43			08:46		09:40 (1)
	15:51	59	12:29 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29			15:40	51	10:46 (4)
6	09:04		09:54 (1)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		09:40 (1)
	15:53	53	12:26 (3)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	51	10:47 (4)
7	09:04		09:54 (1)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48			08:49		09:40 (1)
	15:54	51	11:01 (4)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	60	12:15 (3)
8	09:03		09:55 (1)	08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50			08:51		09:41 (1)
	15:56	51	11:02 (4)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	61	12:17 (3)
9	09:02		09:54 (1)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		09:42 (1)
	15:57	51	11:01 (4)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	63	12:19 (3)
10	09:01		09:55 (1)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55			08:54		09:42 (1)
	15:59	50	11:02 (4)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	63	12:19 (3)
11	09:00		09:56 (1)	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57			08:55		09:43 (1)
	16:01	49	11:02 (4)	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16			15:36	65	12:21 (3)
12	08:59		09:55 (1)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59			08:56		09:43 (1)
	16:03	49	11:01 (4)	17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14			15:36	66	12:22 (3)
13	08:58		09:56 (1)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		09:43 (1)
	16:05	49	11:02 (4)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12			15:35	66	12:22 (3)
14	08:57		09:56 (1)	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04			08:59		09:45 (1)
	16:07	48	11:01 (4)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	66	12:24 (3)
15	08:56		09:57 (1)	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06			09:00		09:45 (1)
	16:09	47	11:02 (4)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08			15:35	67	12:24 (3)
16	08:55		09:58 (1)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08			09:01		09:46 (1)
	16:11	44	11:01 (4)	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06			15:35	66	12:25 (3)
17	08:53		09:59 (1)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10			09:02		09:47 (1)
	16:13	42	11:01 (4)	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04			15:35	68	12:26 (3)
18	08:52		10:00 (1)	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13		09:41 (1)	09:03		09:48 (1)
	16:15	39	11:01 (4)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	8	09:49 (1)	15:35	66	12:26 (3)
19	08:50		10:00 (1)	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:40 (1)	09:03		09:49 (1)
	16:17	37	11:00 (4)	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	12	09:52 (1)	15:35	66	12:27 (3)
20	08:49		10:01 (1)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:38 (1)	09:04		09:49 (1)
	16:19	32	10:58 (4)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15	09:53 (1)	15:36	67	12:27 (3)
21	08:47		10:02 (1)	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		09:38 (1)	09:05		09:50 (1)
	16:21	26	10:56 (4)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	26	10:32 (4)	15:36	66	12:28 (3)
22	08:46		10:03 (1)	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:37 (1)	09:05		09:50 (1)
	16:23	15	10:18 (1)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:56	32	10:34 (4)	15:36	66	12:28 (3)
23	08:44		10:05 (1)	07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:08	08:13	08:23		09:37 (1)	09:06		09:51 (1)
	16:25	12	10:17 (1)	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	37	10:37 (4)	15:37	65	12:29 (3)
24	08:42		10:07 (1)	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:37 (1)	09:06		09:51 (1)
	16:28	8	10:15 (1)	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	39	10:38 (4)	15:38	66	12:29 (3)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:36 (1)	09:07		09:51 (1)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	43	10:39 (4)	15:38	66	12:29 (3)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:37 (1)	09:07		09:51 (1)
	16:32			17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	44	10:40 (4)	15:39	67	12:30 (3)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:37 (1)	09:07		09:51 (1)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	45	10:41 (4)	15:40	67	12:30 (3)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34		09:36 (1)	09:07		09:51 (1)
	16:37			17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	48	10:41 (4)	15:41	67	12:30 (3)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:36 (1)	09:07		09:52 (1)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	49	10:42 (4)	15:42	67	12:31 (3)
30	08:31				06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37		09:38 (1)	09:07		09:52 (1)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	49	10:44 (4)	15:43	67	12:31 (3)
31	08:29				06:57		04:34		05:13	06:19		07:31				09:07		09:52 (1)
	16:44				19:59		22:07		21:44	20:26		16:40				15:44	67	12:30 (3)
Potential sun hours	227			262	365	429	515	539	538	475	386	321	241			207		
Total, worst case		1064												447			1945	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.61												0.61			0.62	
Total reduction		0.07												0.09			0.07	
Total, real		79												39			142	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EA - Pupolu iela 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EB - Pupolu iela 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EC - Pupolu iela 3

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:51	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: ED - Pupolu iela 4

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:51	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EE - Pupolu iela 6

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:51	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EF - Randavas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May		June		July		August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34		04:33		04:26		05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08		22:09	17	05:12 (2)		05:15 (2)	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32		04:32		05:29 (2)	23	22:26	21:41	18:57	16:36	15:43
	15:47	16:49	17:54	20:04	21:10		22:10	19	05:11 (2)		05:15 (2)	05:18	06:23	07:36	08:41
3	09:06	08:23	07:14	06:48	05:29		04:31		05:30 (2)	23	22:26	21:39	20:21	18:57	16:36
	15:49	16:51	17:57	20:06	21:12		22:12	20	05:11 (2)		05:15 (2)	05:20	06:25	07:29	07:38
4	09:05	08:21	07:12	06:46	05:27		04:30		05:31 (2)	23	22:25	21:37	20:18	18:54	16:34
	15:50	16:53	17:59	20:08	21:14		22:13	20	05:11 (2)		05:16 (2)	05:22	06:28	07:31	07:41
5	09:05	08:19	07:09	06:43	05:24		04:29		05:31 (2)	22	22:24	21:35	20:15	18:51	16:31
	15:51	16:56	18:01	20:10	21:16		22:14	21	05:10 (2)		05:16 (2)	05:24	06:30	07:33	07:43
6	09:04	08:17	07:06	06:40	05:22		04:28		05:31 (2)	22	22:24	21:33	20:13	18:49	16:29
	15:53	16:58	18:04	20:12	21:18		22:16	21	05:10 (2)		05:16 (2)	05:26	06:32	07:35	07:45
7	09:04	08:14	07:04	06:37	05:20		04:27		05:31 (2)	22	22:23	21:30	20:10	18:46	16:27
	15:55	17:01	18:06	20:15	21:21		22:17	21	05:11 (2)		05:17 (2)	05:28	06:34	07:38	07:48
8	09:03	08:12	07:01	06:35	05:17		04:26		05:32 (2)	21	22:22	21:28	20:07	18:43	16:25
	15:56	17:03	18:08	20:17	21:23		22:18	22	05:10 (2)		05:17 (2)	05:30	06:36	07:40	07:50
9	09:02	08:10	06:58	06:32	05:15		04:25		05:32 (2)	21	22:21	21:26	20:04	18:40	16:22
	15:58	17:05	18:10	20:19	21:25		22:19	22	05:10 (2)		05:18 (2)	05:32	06:38	07:42	07:52
10	09:01	08:08	06:55	06:29	05:13		04:25		05:32 (2)	20	22:20	21:23	20:01	18:38	16:20
	16:00	17:08	18:13	20:21	21:27		22:20	22	05:11 (2)		05:19 (2)	05:34	06:40	07:44	07:54
11	09:00	08:05	06:53	06:26	05:11		04:24		05:33 (2)	19	22:19	21:21	19:59	18:35	16:18
	16:01	17:10	18:15	20:23	21:29		22:21	23	05:11 (2)		05:19 (2)	05:36	06:42	07:46	07:57
12	08:59	08:03	06:50	06:24	05:09		04:23		05:34 (2)	18	22:18	21:18	19:56	18:32	16:16
	16:03	17:12	18:17	20:26	21:31		22:22	23	05:11 (2)		05:19 (2)	05:39	06:44	07:49	07:59
13	08:58	08:00	06:47	06:21	05:06		04:23		05:34 (2)	18	22:16	21:16	19:53	18:29	16:14
	16:05	17:15	18:19	20:28	21:33		22:23	23	05:11 (2)		05:21 (2)	05:41	06:47	07:51	08:01
14	08:57	07:58	06:44	06:18	05:04		04:22		05:34 (2)	16	22:15	21:14	19:50	18:27	16:12
	16:07	17:17	18:22	20:30	21:36		22:24	24	05:11 (2)		05:21 (2)	05:43	06:49	07:53	08:04
15	08:56	07:56	06:42	06:16	05:02		04:22		05:35 (2)	15	22:14	21:11	19:47	18:24	16:10
	16:09	17:20	18:24	20:32	21:38		22:25	23	05:11 (2)		05:22 (2)	05:45	06:51	07:55	08:06
16	08:54	07:53	06:39	06:13	05:00		04:22		05:34 (2)	12	22:12	21:09	19:45	18:21	16:08
	16:11	17:22	18:26	20:34	21:40		22:25	24	05:11 (2)		05:24 (2)	05:47	06:53	07:57	08:08
17	08:53	07:51	06:36	06:10	04:58		04:22		05:35 (2)	10	22:11	21:06	19:42	18:19	16:06
	16:13	17:24	18:28	20:37	21:42		22:26	24	05:11 (2)		05:26 (2)	05:49	06:55	08:00	08:10
18	08:52	07:48	06:33	06:08	04:56		04:21		05:35 (2)	5	22:09	21:03	19:39	18:16	16:04
	16:15	17:27	18:31	20:39	21:44		22:26	23	05:12 (2)		05:31 (2)	05:51	06:57	08:02	08:12
19	08:50	07:46	06:30	06:05	04:54		04:21		05:35 (2)		22:08	21:01	19:36	18:13	16:03
	16:17	17:29	18:33	20:41	21:46		22:27	23	05:12 (2)		04:51	05:54	06:59	08:04	08:15
20	08:49	07:43	06:28	06:02	04:52		04:21		05:35 (2)		22:06	20:58	19:33	18:11	16:01
	16:19	17:31	18:35	20:43	21:48		22:27	23	05:12 (2)		04:52	05:56	07:01	08:06	08:17
21	08:47	07:41	06:25	06:00	04:51		04:21		05:35 (2)		22:05	20:56	19:31	18:08	15:59
	16:21	17:34	18:37	20:45	21:50		22:27	24	05:12 (2)		04:54	05:58	07:03	08:09	08:19
22	08:46	07:38	06:22	05:57	04:49		04:22		05:36 (2)		22:03	20:53	19:28	18:06	15:57
	16:24	17:36	18:39	20:48	21:51		22:28	23	05:13 (2)		04:56	06:00	07:06	08:11	08:21
23	08:44	07:35	06:19	05:54	04:47		04:22		05:36 (2)		22:01	20:50	19:25	18:03	15:56
	16:26	17:38	18:42	20:50	21:53		22:28	23	05:13 (2)		04:58	06:02	07:08	08:13	08:23
24	08:42	07:33	06:16	05:52	04:45		04:22		05:36 (2)		21:59	20:48	19:22	18:01	15:54
	16:28	17:41	18:44	20:52	21:55		22:28	23	05:13 (2)		05:00	06:04	07:10	08:15	08:25
25	08:41	07:30	06:14	05:49	04:44		04:23		05:36 (2)		21:58	20:45	19:19	17:58	15:53
	16:30	17:43	18:46	20:54	21:57		22:28	23	05:14 (2)		05:02	06:06	07:12	07:18	08:27
26	08:39	07:28	06:11	05:47	04:42	05:19 (2)	04:23		05:37 (2)		21:56	20:43	19:16	16:55	15:51
	16:33	17:45	18:48	20:57	21:59	1 05:20 (2)	22:28	24	05:13 (2)		05:04	06:08	07:14	07:20	08:29
27	08:37	07:25	06:08	05:44	04:40	05:15 (2)	04:24		05:37 (2)		21:54	20:40	19:14	16:53	15:50
	16:35	17:48	18:50	20:59	22:01	8 05:23 (2)	22:28	23	05:14 (2)		05:06	06:11	07:16	07:22	08:31
28	08:35	07:22	06:05	05:42	04:39	05:14 (2)	04:24		05:37 (2)		21:52	20:37	19:11	16:50	15:49
	16:37	17:50	18:53	21:01	22:02	11 05:25 (2)	22:27	23	05:14 (2)		05:07	06:13	07:18	07:25	08:33
29	08:33		07:02	05:39	04:37	05:13 (2)	04:25		05:14 (2)		21:50	20:34	19:08	16:48	15:47
	16:39		19:55	21:03	22:04	14 05:27 (2)	22:27	23	05:37 (2)		05:09	06:15	07:20	07:27	08:35
30	08:31		07:00	05:37	04:36	05:12 (2)	04:26		05:15 (2)		21:48	20:32	19:05	16:46	15:46
	16:42		19:57	21:05	22:06	16 05:28 (2)	22:27	23	05:38 (2)		05:11	06:17	07:23	07:29	08:37
31	08:29		06:57		04:35	05:12 (2)					21:46	20:29	19:02	16:43	15:45
	16:44		19:59		22:07	17 05:29 (2)					05:13	06:19		07:31	
Potential sun hours	227	262	365	429	515		539				21:44	20:26		16:41	
Total, worst case						67		670		310	538	474	386	321	241
Sun reduction						0.58		0.53		0.57					
Oper. time red.						0.93		0.93		0.93					
Wind dir. red.						0.66		0.66		0.66					
Total reduction						0.35		0.32		0.35					
Total, real						24		217		107					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EG - Raudupes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April		May	June	July	August		September		October	November	December
1	09:07	08:27	07:20	06:54		05:34	04:33	04:26	05:15		06:21		06:59 (2)	07:25	07:34	08:39
	15:46	16:46	17:52	20:01		21:08	22:09	22:26	21:41		20:24	21	07:20 (2)	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51		05:32	04:32	04:27	05:18		06:23		07:00 (2)	07:27	07:36	08:41
	15:47	16:49	17:54	20:04		21:10	22:10	22:26	21:39		20:21	18	07:18 (2)	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48		05:29	04:31	04:28	05:20		06:25		07:02 (2)	07:29	07:38	08:43
	15:48	16:51	17:57	20:06		21:12	22:12	22:25	21:37		20:18	13	07:15 (2)	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46		05:27	04:30	04:29	05:22		06:28		07:07 (2)	07:31	07:41	08:44
	15:50	16:53	17:59	20:08		21:14	22:13	22:24	21:35		20:15	3	07:10 (2)	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43		05:24	04:29	04:30	05:24		06:30			07:33	07:43	08:46
	15:51	16:56	18:01	20:10		21:16	22:15	22:24	21:33		20:13			18:49	16:29	15:40
6	09:04	08:17	07:06	06:40		05:22	04:28	04:31	05:26		06:32			07:35	07:45	08:48
	15:53	16:58	18:04	20:12		21:19	22:16	22:23	21:30		20:10			18:46	16:27	15:39
7	09:04	08:14	07:04	06:37		05:20	04:27	04:33	05:28		06:34			07:38	07:48	08:49
	15:54	17:01	18:06	20:15		21:21	22:17	22:22	21:28		20:07			18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	07:11 (2)	05:17	04:26	04:34	05:30		06:36			07:40	07:50	08:51
	15:56	17:03	18:08	20:17	1 07:12 (2)	21:23	22:18	22:21	21:26		20:04			18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	07:04 (2)	05:15	04:25	04:35	05:32		06:38			07:42	07:52	08:52
	15:58	17:05	18:10	20:19	13 07:17 (2)	21:25	22:19	22:20	21:23		20:01			18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	07:01 (2)	05:13	04:24	04:36	05:34		06:40			07:44	07:54	08:54
	16:00	17:08	18:13	20:21	18 07:19 (2)	21:27	22:20	22:19	21:21		19:59			18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	07:00 (2)	05:11	04:24	04:38	05:36		06:42			07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21 07:21 (2)	21:29	22:21	22:18	21:18		19:56			18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	06:58 (2)	05:09	04:23	04:39	05:39		06:44			07:49	07:59	08:56
	16:03	17:12	18:17	20:26	24 07:22 (2)	21:31	22:22	22:16	21:16		19:53			18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	06:58 (2)	05:06	04:23	04:41	05:41		06:47			07:51	08:01	08:57
	16:05	17:15	18:19	20:28	25 07:23 (2)	21:34	22:23	22:15	21:14		19:50			18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	06:56 (2)	05:04	04:22	04:42	05:43		06:49			07:53	08:04	08:59
	16:07	17:17	18:22	20:30	27 07:23 (2)	21:36	22:24	22:14	21:11		19:47			18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	06:55 (2)	05:02	04:22	04:44	05:45	07:10 (2)	06:51			07:55	08:06	09:00
	16:09	17:20	18:24	20:32	28 07:23 (2)	21:38	22:25	22:12	21:09	8 07:18 (2)	19:45			18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	06:55 (2)	05:00	04:22	04:45	05:47	07:07 (2)	06:53			07:57	08:08	09:01
	16:11	17:22	18:26	20:34	28 07:23 (2)	21:40	22:25	22:11	21:06	14 07:21 (2)	19:42			18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	06:54 (2)	04:58	04:21	04:47	05:49	07:05 (2)	06:55			08:00	08:10	09:02
	16:13	17:24	18:28	20:37	29 07:23 (2)	21:42	22:26	22:10	21:03	17 07:22 (2)	19:39			18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	06:55 (2)	04:56	04:21	04:49	05:51	07:03 (2)	06:57			08:02	08:13	09:03
	16:15	17:27	18:31	20:39	28 07:23 (2)	21:44	22:26	22:08	21:01	21 07:24 (2)	19:36			18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	06:54 (2)	04:54	04:21	04:51	05:53	07:02 (2)	06:59			08:04	08:15	09:03
	16:17	17:29	18:33	20:41	29 07:23 (2)	21:46	22:27	22:06	20:58	23 07:25 (2)	19:33			18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	06:54 (2)	04:52	04:21	04:52	05:56	07:01 (2)	07:01			08:06	08:17	09:04
	16:19	17:31	18:35	20:43	28 07:22 (2)	21:48	22:27	22:05	20:56	24 07:25 (2)	19:31			18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	06:54 (2)	04:50	04:21	04:54	05:58	07:00 (2)	07:03			08:09	08:19	09:05
	16:21	17:34	18:37	20:45	27 07:21 (2)	21:50	22:27	22:03	20:53	26 07:26 (2)	19:28			18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	06:54 (2)	04:49	04:22	04:56	06:00	06:59 (2)	07:06			08:11	08:21	09:05
	16:24	17:36	18:39	20:48	26 07:20 (2)	21:52	22:28	22:01	20:51	27 07:26 (2)	19:25			18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	06:55 (2)	04:47	04:22	04:58	06:02	06:58 (2)	07:08			08:13	08:23	09:06
	16:26	17:38	18:42	20:50	25 07:20 (2)	21:53	22:28	21:59	20:48	28 07:26 (2)	19:22			18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	06:56 (2)	04:45	04:22	05:00	06:04	06:58 (2)	07:10			08:15	08:25	09:06
	16:28	17:41	18:44	20:52	23 07:19 (2)	21:55	22:28	21:58	20:45	28 07:26 (2)	19:19			17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	06:57 (2)	04:43	04:22	05:02	06:06	06:57 (2)	07:12			07:18	08:27	09:06
	16:30	17:43	18:46	20:54	20 07:17 (2)	21:57	22:28	21:56	20:43	29 07:26 (2)	19:16			16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	06:58 (2)	04:42	04:23	05:04	06:08	06:57 (2)	07:14			07:20	08:29	09:07
	16:32	17:45	18:48	20:57	17 07:15 (2)	21:59	22:28	21:54	20:40	29 07:26 (2)	19:14			16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	07:00 (2)	04:40	04:23	05:05	06:11	06:57 (2)	07:16			07:22	08:31	09:07
	16:35	17:48	18:50	20:59	13 07:13 (2)	22:01	22:28	21:52	20:37	28 07:25 (2)	19:11			16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	07:04 (2)	04:39	04:24	05:07	06:13	06:57 (2)	07:18			07:25	08:33	09:07
	16:37	17:50	18:53	21:01	5 07:09 (2)	22:02	22:27	21:50	20:34	28 07:25 (2)	19:08			16:48	15:47	15:41
29	08:33		07:02	05:39		04:37	04:25	05:09	06:15	06:57 (2)	07:20			07:27	08:35	09:07
	16:39		19:55	21:03		22:04	22:27	21:48	20:32	27 07:24 (2)	19:05			16:46	15:46	15:42
30	08:31		07:00	05:37		04:36	04:26	05:11	06:17	06:58 (2)	07:23			07:29	08:37	09:07
	16:42		19:57	21:05		22:06	22:27	21:46	20:29	25 07:23 (2)	19:02			16:43	15:45	15:43
31	08:29		06:57			04:35		05:13	06:19	06:58 (2)				07:31		09:07
	16:44		19:59			22:07		21:44	20:26	24 07:22 (2)				16:41		15:44
Potential sun hours	227	262	365	429		515	539	538	474		386			321	241	207
Total, worst case					455					406		55				
Sun reduction					0.46					0.55		0.43				
Oper. time red.					0.93					0.93		0.93				
Wind dir. red.					0.65					0.65		0.65				
Total reduction					0.28					0.33		0.26				
Total, real					126					133		14				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EH - Riekstini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:27	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:26	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:54	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:25	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:52	16:56	18:01	20:10	21:16	22:14	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:32	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:39
8	09:03	08:12	07:01	06:35	05:18	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:23	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:25	04:37	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:37	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:30	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:09	19:45	18:21	16:08	15:36
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:05	15:36
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:31	20:39	21:44	22:26	22:08	21:01	19:36	18:14	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:54	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:51	04:22	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:58	15:37
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:01	15:54	15:38
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:56	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:09	07:14	07:20	08:29	09:07
	16:33	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:40
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:51	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:08	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:10	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:12	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:35		05:14	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EI - Rudzi š i 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:07	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39		
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43		
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41		
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42		
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43		
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44		
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46		
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39		
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48		
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38		
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49		
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38		
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51		
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37		
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52		
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36		
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54		
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36		
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:15	15:36		
12	08:59	08:03	06:49	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56		
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35		
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57		
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35		
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59		12:52 (13)
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35	5	12:57 (13)
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00		12:51 (13)
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35	7	12:58 (13)
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01		12:51 (13)
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35	8	12:59 (13)
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02		12:51 (13)
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35	9	13:00 (13)
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:02		12:51 (13)
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35	10	13:01 (13)
19	08:50	07:45	06:30	06:04	04:54	04:20	04:50	05:53	06:59	08:04	08:15	09:03		12:50 (13)
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35	11	13:01 (13)
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04		12:51 (13)
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35	11	13:02 (13)
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05		12:52 (13)
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36	11	13:03 (13)
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05		12:52 (13)
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	15:36	11	13:03 (13)
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06		12:53 (13)
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37	11	13:04 (13)
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06		12:53 (13)
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37	11	13:04 (13)
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06		12:54 (13)
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	10	13:04 (13)
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07		12:54 (13)
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	10	13:04 (13)
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07		12:55 (13)
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:40	9	13:04 (13)
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07		12:57 (13)
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40	7	13:04 (13)
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07		12:58 (13)
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41	6	13:04 (13)
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07		13:00 (13)
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42	2	13:02 (13)
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07		
	16:43		19:59		22:07		21:44	20:26		16:40		15:44		
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207		
Total, worst case													149	
Sun reduction													0.13	
Oper. time red.													0.93	
Wind dir. red.													0.65	
Total reduction													0.08	
Total, real													12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EJ - Salacas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EK - Sarupes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March		April		May	June	July	August	September		October	November	December
1	09:07	08:27	07:20		06:54	07:45 (2)	05:34	04:33	04:26	05:15	06:21		07:25	07:34	08:39
	15:46	16:46	17:52		20:01	16 08:01 (2)	21:08	22:09	22:26	21:42	20:24		19:00	16:38	15:44
2	09:06	08:25	07:17		06:51	07:46 (2)	05:32	04:32	04:27	05:18	06:23		07:27	07:36	08:41
	15:47	16:49	17:55		20:04	13 07:59 (2)	21:10	22:10	22:26	21:39	20:21		18:57	16:36	15:43
3	09:06	08:23	07:14		06:48	07:49 (2)	05:29	04:31	04:28	05:20	06:25		07:29	07:38	08:43
	15:48	16:51	17:57		20:06	7 07:56 (2)	21:12	22:12	22:25	21:37	20:18		18:54	16:34	15:42
4	09:06	08:21	07:12		06:46		05:27	04:30	04:29	05:22	06:28		07:31	07:41	08:44
	15:50	16:53	17:59		20:08		21:14	22:13	22:24	21:35	20:15		18:51	16:31	15:41
5	09:05	08:19	07:09		06:43		05:24	04:29	04:30	05:24	06:30		07:33	07:43	08:46
	15:51	16:56	18:01		20:10		21:16	22:15	22:24	21:33	20:13		18:49	16:29	15:40
6	09:04	08:17	07:06		06:40		05:22	04:28	04:31	05:26	06:32		07:36	07:45	08:48
	15:53	16:58	18:04		20:12		21:19	22:16	22:23	21:30	20:10		18:46	16:27	15:39
7	09:04	08:14	07:04		06:37		05:20	04:27	04:33	05:28	06:34		07:38	07:48	08:49
	15:54	17:01	18:06		20:15		21:21	22:17	22:22	21:28	20:07		18:43	16:25	15:38
8	09:03	08:12	07:01		06:35		05:17	04:26	04:34	05:30	06:36		07:40	07:50	08:51
	15:56	17:03	18:08		20:17		21:23	22:18	22:21	21:26	20:04		18:40	16:22	15:38
9	09:02	08:10	06:58		06:32		05:15	04:25	04:35	05:32	06:38	07:43 (2)	07:42	07:52	08:52
	15:58	17:05	18:10		20:19		21:25	22:19	22:20	21:23	20:01	6 07:49 (2)	18:38	16:20	15:37
10	09:01	08:08	06:55		06:29		05:13	04:24	04:36	05:34	06:40	07:39 (2)	07:44	07:55	08:54
	16:00	17:08	18:13		20:21		21:27	22:20	22:19	21:21	19:59	13 07:52 (2)	18:35	16:18	15:37
11	09:00	08:05	06:53		06:26		05:11	04:24	04:38	05:36	06:42	07:37 (2)	07:46	07:57	08:55
	16:01	17:10	18:15		20:23		21:29	22:21	22:18	21:18	19:56	16 07:53 (2)	18:32	16:16	15:36
12	08:59	08:03	06:50		06:24		05:09	04:23	04:39	05:39	06:44	07:36 (2)	07:49	07:59	08:56
	16:03	17:12	18:17		20:26		21:31	22:22	22:17	21:16	19:53	18 07:54 (2)	18:29	16:14	15:36
13	08:58	08:01	06:47		06:21		05:06	04:23	04:41	05:41	06:47	07:34 (2)	07:51	08:01	08:58
	16:05	17:15	18:19		20:28		21:34	22:23	22:15	21:14	19:50	21 07:55 (2)	18:27	16:12	15:36
14	08:57	07:58	06:44		06:18		05:04	04:22	04:42	05:43	06:49	07:33 (2)	07:53	08:04	08:59
	16:07	17:17	18:22		20:30		21:36	22:24	22:14	21:11	19:47	22 07:55 (2)	18:24	16:10	15:35
15	08:56	07:56	06:42		06:16		05:02	04:22	04:44	05:45	06:51	07:33 (2)	07:55	08:06	09:00
	16:09	17:20	18:24		20:32		21:38	22:25	22:13	21:09	19:45	22 07:55 (2)	18:21	16:08	15:35
16	08:55	07:53	06:39		06:13		05:00	04:22	04:45	05:47	06:53	07:33 (2)	07:57	08:08	09:01
	16:11	17:22	18:26		20:34		21:40	22:25	22:11	21:06	19:42	22 07:55 (2)	18:19	16:06	15:35
17	08:53	07:51	06:36		06:10		04:58	04:21	04:47	05:49	06:55	07:33 (2)	08:00	08:10	09:02
	16:13	17:24	18:28		20:37		21:42	22:26	22:10	21:04	19:39	22 07:55 (2)	18:16	16:04	15:35
18	08:52	07:48	06:33		06:07		04:56	04:21	04:49	05:51	06:57	07:33 (2)	08:02	08:13	09:03
	16:15	17:27	18:31		20:39		21:44	22:26	22:08	21:01	19:36	21 07:54 (2)	18:13	16:03	15:36
19	08:50	07:46	06:30		06:05		04:54	04:21	04:51	05:53	06:59	07:33 (2)	08:04	08:15	09:03
	16:17	17:29	18:33		20:41		21:46	22:27	22:06	20:58	19:33	20 07:53 (2)	18:11	16:01	15:36
20	08:49	07:43	06:28		06:02		04:52	04:21	04:52	05:56	07:01	07:33 (2)	08:06	08:17	09:04
	16:19	17:31	18:35		20:43		21:48	22:27	22:05	20:56	19:31	19 07:52 (2)	18:08	15:59	15:36
21	08:47	07:41	06:25	06:52 (2)	06:00		04:50	04:21	04:54	05:58	07:03	07:34 (2)	08:09	08:19	09:05
	16:21	17:34	18:37	10 07:02 (2)	20:46		21:50	22:28	22:03	20:53	19:28	16 07:50 (2)	18:06	15:57	15:36
22	08:46	07:38	06:22	06:49 (2)	05:57		04:49	04:22	04:56	06:00	07:06	07:35 (2)	08:11	08:21	09:05
	16:24	17:36	18:39	15 07:04 (2)	20:48		21:52	22:28	22:01	20:51	19:25	12 07:47 (2)	18:03	15:56	15:37
23	08:44	07:36	06:19	06:47 (2)	05:54		04:47	04:22	04:58	06:02	07:08	07:39 (2)	08:13	08:23	09:06
	16:26	17:38	18:42	18 07:05 (2)	20:50		21:53	22:28	22:00	20:48	19:22	4 07:43 (2)	18:00	15:54	15:37
24	08:42	07:33	06:16	06:45 (2)	05:52		04:45	04:22	05:00	06:04	07:10		08:15	08:25	09:06
	16:28	17:41	18:44	20 07:05 (2)	20:52		21:55	22:28	21:58	20:45	19:19		17:58	15:53	15:38
25	08:41	07:30	06:14	06:45 (2)	05:49		04:43	04:22	05:02	06:06	07:12		07:18	08:27	09:07
	16:30	17:43	18:46	21 07:06 (2)	20:54		21:57	22:28	21:56	20:43	19:17		16:55	15:51	15:39
26	08:39	07:28	06:11	06:44 (2)	05:47		04:42	04:23	05:04	06:08	07:14		07:20	08:30	09:07
	16:32	17:45	18:48	22 07:06 (2)	20:57		21:59	22:28	21:54	20:40	19:14		16:53	15:50	15:39
27	08:37	07:25	06:08	06:44 (2)	05:44		04:40	04:23	05:05	06:11	07:16		07:22	08:32	09:07
	16:35	17:48	18:50	22 07:06 (2)	20:59		22:01	22:28	21:52	20:37	19:11		16:50	15:48	15:40
28	08:35	07:22	06:05	06:43 (2)	05:42		04:39	04:24	05:07	06:13	07:18		07:25	08:33	09:07
	16:37	17:50	18:53	22 07:05 (2)	21:01		22:02	22:27	21:50	20:35	19:08		16:48	15:47	15:41
29	08:33		07:02	07:43 (2)	05:39		04:37	04:25	05:09	06:15	07:20		07:27	08:35	09:07
	16:39		19:55	21 08:04 (2)	21:03		22:04	22:27	21:48	20:32	19:05		16:46	15:46	15:42
30	08:31		07:00	07:44 (2)	05:37		04:36	04:26	05:11	06:17	07:23		07:29	08:37	09:07
	16:42		19:57	20 08:04 (2)	21:05		22:06	22:27	21:46	20:29	19:03		16:43	15:45	15:43
31	08:29		06:57	07:44 (2)			04:35		05:13	06:19			07:32		09:07
	16:44		19:59	19 08:03 (2)			22:07		21:44	20:26			16:41		15:44
Potential sun hours	227	262	365		429		515	539	538	474	386		321	241	207
Total, worst case			210		36						254				
Sun reduction			0.37		0.46						0.43				
Oper. time red.			0.93		0.93						0.93				
Wind dir. red.			0.64		0.64						0.64				
Total reduction			0.22		0.27						0.26				
Total, real			46		10						65				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EL - Sauleskalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:49	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:25	06:32	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:26	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:35
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:14	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06	09:00
	16:08	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:44	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:10	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:12	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:55	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:13	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EM - Sauleskalni 2
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:49	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:25	06:32	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:35
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:14	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:59
	16:07	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:44	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:08	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EN - Saulkrasti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	07:25 (2)	05:34	04:33	04:26	05:15	06:21	07:23 (2)	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21 07:46 (2)	21:08	22:09	22:26	21:42	20:24	16 07:39 (2)	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	07:23 (2)	05:32	04:32	04:27	05:18	06:23	07:22 (2)	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	23 07:46 (2)	21:10	22:10	22:26	21:39	20:21	18 07:40 (2)	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	07:23 (2)	05:29	04:31	04:28	05:20	06:25	07:20 (2)	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	24 07:47 (2)	21:12	22:12	22:25	21:37	20:18	21 07:41 (2)	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	07:23 (2)	05:27	04:30	04:29	05:22	06:28	07:19 (2)	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	24 07:47 (2)	21:14	22:13	22:24	21:35	20:15	22 07:41 (2)	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	07:22 (2)	05:24	04:29	04:30	05:24	06:30	07:18 (2)	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	24 07:46 (2)	21:16	22:15	22:24	21:33	20:13	24 07:42 (2)	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	07:21 (2)	05:22	04:28	04:31	05:26	06:32	07:18 (2)	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	24 07:45 (2)	21:19	22:16	22:23	21:30	20:10	23 07:41 (2)	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	07:22 (2)	05:20	04:27	04:33	05:28	06:34	07:17 (2)	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	23 07:45 (2)	21:21	22:17	22:22	21:28	20:07	24 07:41 (2)	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	07:22 (2)	05:17	04:26	04:34	05:30	06:36	07:17 (2)	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	22 07:44 (2)	21:23	22:18	22:21	21:26	20:04	24 07:41 (2)	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	07:22 (2)	05:15	04:25	04:35	05:32	06:38	07:17 (2)	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21 07:43 (2)	21:25	22:19	22:20	21:23	20:01	23 07:40 (2)	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	07:24 (2)	05:13	04:24	04:36	05:34	06:40	07:17 (2)	07:44	07:55	08:54
	16:00	17:08	18:13	20:21	18 07:42 (2)	21:27	22:20	22:19	21:21	19:59	22 07:39 (2)	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	07:24 (2)	05:11	04:24	04:38	05:36	06:42	07:17 (2)	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	16 07:40 (2)	21:29	22:21	22:18	21:18	19:56	21 07:38 (2)	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	07:26 (2)	05:09	04:23	04:39	05:39	06:44	07:18 (2)	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	11 07:37 (2)	21:31	22:22	22:16	21:16	19:53	19 07:37 (2)	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21		05:06	04:23	04:41	05:41	06:47	07:19 (2)	07:51	08:01	08:58
	16:05	17:15	18:19	20:28		21:34	22:23	22:15	21:14	19:50	16 07:35 (2)	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18		05:04	04:22	04:42	05:43	06:49	07:20 (2)	07:53	08:04	08:59
	16:07	17:17	18:22	20:30		21:36	22:24	22:14	21:11	19:47	12 07:32 (2)	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16		05:02	04:22	04:44	05:45	06:51	07:25 (2)	07:55	08:06	09:00
	16:09	17:20	18:24	20:32		21:38	22:25	22:12	21:09	19:45	2 07:27 (2)	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13		05:00	04:22	04:45	05:47	06:53		07:57	08:08	09:01
	16:11	17:22	18:26	20:34		21:40	22:25	22:11	21:06	19:42		18:19	16:06	15:35
17	08:53	07:51	06:36	06:10		04:58	04:21	04:47	05:49	06:55		08:00	08:10	09:02
	16:13	17:24	18:28	20:37		21:42	22:26	22:10	21:03	19:39		18:16	16:04	15:35
18	08:52	07:48	06:33	06:07		04:56	04:21	04:49	05:51	06:57		08:02	08:13	09:03
	16:15	17:27	18:31	20:39		21:44	22:26	22:08	21:01	19:36		18:13	16:03	15:36
19	08:50	07:46	06:30	06:05		04:54	04:21	04:51	05:53	06:59		08:04	08:15	09:03
	16:17	17:29	18:33	20:41		21:46	22:27	22:06	20:58	19:33		18:11	16:01	15:36
20	08:49	07:43	06:28	06:02		04:52	04:21	04:52	05:56	07:01		08:06	08:17	09:04
	16:19	17:31	18:35	20:43		21:48	22:27	22:05	20:56	19:31		18:08	15:59	15:36
21	08:47	07:41	06:25	06:00		04:50	04:21	04:54	05:58	07:03		08:09	08:19	09:05
	16:21	17:34	18:37	20:45		21:50	22:28	22:03	20:53	19:28		18:06	15:57	15:36
22	08:46	07:38	06:22	05:57		04:49	04:22	04:56	06:00	07:06		08:11	08:21	09:05
	16:24	17:36	18:39	20:48		21:52	22:28	22:01	20:51	19:25		18:03	15:56	15:37
23	08:44	07:36	06:19	05:54		04:47	04:22	04:58	06:02	07:08		08:13	08:23	09:06
	16:26	17:38	18:42	20:50		21:53	22:28	21:59	20:48	19:22		18:00	15:54	15:37
24	08:42	07:33	06:16	05:52		04:45	04:22	05:00	06:04	07:10		08:15	08:25	09:06
	16:28	17:41	18:44	20:52		21:55	22:28	21:58	20:45	19:19		17:58	15:53	15:38
25	08:41	07:30	06:14	05:49		04:43	04:22	05:02	06:06	07:12		07:18	08:27	09:07
	16:30	17:43	18:46	20:54		21:57	22:28	21:56	20:43	19:16		16:55	15:51	15:39
26	08:39	07:28	06:11	05:47		04:42	04:23	05:04	06:08	07:14		07:20	08:29	09:07
	16:32	17:45	18:48	20:57		21:59	22:28	21:54	20:40	19:14		16:53	15:50	15:39
27	08:37	07:25	06:08	05:44		04:40	04:23	05:05	06:11	07:16		07:22	08:31	09:07
	16:35	17:48	18:50	20:59		22:01	22:28	21:52	20:37	19:11		16:50	15:48	15:40
28	08:35	07:22	06:05	05:42		04:39	04:24	05:07	06:13	07:18		07:25	08:33	09:07
	16:37	17:50	18:53	21:01		22:02	22:27	21:50	20:35	19:08		16:48	15:47	15:41
29	08:33		07:02 07:30 (2)	05:39		04:37	04:25	05:09	06:15	07:20		07:27	08:35	09:07
	16:39		19:55 11 07:41 (2)	21:03		22:04	22:27	21:48	20:32	19:05		16:46	15:46	15:42
30	08:31		07:00 07:28 (2)	05:37		04:36	04:26	05:11	06:17 07:31 (2)	07:23		07:29	08:37	09:07
	16:42		19:57 16 07:44 (2)	21:05		22:06	22:27	21:46	20:29 1 07:32 (2)	19:02		16:43	15:45	15:43
31	08:29		06:57 07:26 (2)			04:35		05:13	06:19 07:26 (2)			07:32		09:07
	16:44		19:59 19 07:45 (2)			22:07		21:44	20:26 11 07:37 (2)			16:41		15:44
Potential sun hours	227	262	365	429		515	539	538	474	386		321	241	207
Total, worst case			46	251					12	287				
Sun reduction			0.37	0.46					0.55	0.43				
Oper. time red.			0.93	0.93					0.93	0.93				
Wind dir. red.			0.65	0.65					0.65	0.65				
Total reduction			0.22	0.28					0.33	0.26				
Total, real			10	70					4	74				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EO - Sildarzini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		10:07 (13)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34			08:39		09:53 (13)
	15:45	23	10:30 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	23	10:16 (13)
2	09:06		10:07 (13)	08:25	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36			08:41		09:53 (13)
	15:47	24	10:31 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	24	10:17 (13)
3	09:06		10:07 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38			08:43		09:54 (13)
	15:48	24	10:31 (13)	16:51	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	23	10:17 (13)
4	09:05		10:07 (13)	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41			08:44		09:54 (13)
	15:49	24	10:31 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	24	10:18 (13)
5	09:05		10:08 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:54 (13)
	15:51	24	10:32 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	24	10:18 (13)
6	09:04		10:09 (13)	08:17	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45			08:48		09:55 (13)
	15:52	24	10:33 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	24	10:19 (13)
7	09:04		10:09 (13)	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:48			08:49		09:54 (13)
	15:54	24	10:33 (13)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	24	10:18 (13)
8	09:03		10:10 (13)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:55 (13)
	15:55	23	10:33 (13)	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	24	10:19 (13)
9	09:02		10:09 (13)	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52			08:52		09:56 (13)
	15:57	24	10:33 (13)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	24	10:20 (13)
10	09:01		10:10 (13)	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54			08:54		09:56 (13)
	15:59	23	10:33 (13)	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:35	16:18			15:36	24	10:20 (13)
11	09:00		10:11 (13)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57			08:55		09:57 (13)
	16:01	23	10:34 (13)	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16			15:36	24	10:21 (13)
12	08:59		10:11 (13)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59			08:56		09:57 (13)
	16:03	23	10:34 (13)	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14			15:35	24	10:21 (13)
13	08:58		10:12 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		09:57 (13)
	16:04	22	10:34 (13)	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12			15:35	24	10:21 (13)
14	08:57		10:13 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04			08:59		09:58 (13)
	16:06	21	10:34 (13)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	24	10:22 (13)
15	08:56		10:14 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06			09:00		09:59 (13)
	16:08	20	10:34 (13)	17:19	18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08			15:35	23	10:22 (13)
16	08:54		10:15 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08			09:01		09:59 (13)
	16:10	18	10:33 (13)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06			15:35	23	10:22 (13)
17	08:53		10:15 (13)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10			09:02		10:00 (13)
	16:12	18	10:33 (13)	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04			15:35	23	10:23 (13)
18	08:52		10:17 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12			09:03		10:00 (13)
	16:14	16	10:33 (13)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02			15:35	23	10:23 (13)
19	08:50		10:19 (13)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15			09:03		10:01 (13)
	16:17	13	10:32 (13)	17:29	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00			15:35	23	10:24 (13)
20	08:49		10:20 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17			09:04		10:01 (13)
	16:19	10	10:30 (13)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59			15:35	23	10:24 (13)
21	08:47		10:24 (13)	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		10:00 (13)	09:05		10:02 (13)
	16:21	3	10:27 (13)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	3	10:03 (13)	15:36	23	10:25 (13)
22	08:46			07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:56 (13)	09:05		10:02 (13)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	10	10:06 (13)	15:36	23	10:25 (13)
23	08:44			07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:56 (13)	09:06		10:03 (13)
	16:25			17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	13	10:09 (13)	15:37	23	10:26 (13)
24	08:42			07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		09:54 (13)	09:06		10:03 (13)
	16:27			17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	16	10:10 (13)	15:37	23	10:26 (13)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:53 (13)	09:07		10:03 (13)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	18	10:11 (13)	15:38	23	10:26 (13)
26	08:39			07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:54 (13)	09:07		10:03 (13)
	16:32			17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	18	10:12 (13)	15:39	24	10:27 (13)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:53 (13)	09:07		10:04 (13)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	20	10:13 (13)	15:40	23	10:27 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:53 (13)	09:07		10:04 (13)
	16:37			17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	21	10:14 (13)	15:41	24	10:28 (13)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:52 (13)	09:07		10:05 (13)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	22	10:14 (13)	15:42	23	10:28 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:53 (13)	09:07		10:06 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	23	10:16 (13)	15:43	23	10:29 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31				09:07		10:06 (13)
	16:43				19:59		22:07		21:44	20:26		16:40				15:44	23	10:29 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241			207		
Total, worst case		424												164			727	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.07												0.09			0.07	
Total, real		31												14			52	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EP - Silkaleji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:07		09:51 (13)	08:27		09:59 (13)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34			08:39		09:29 (13)
	15:45	7	09:58 (13)	16:46	11	10:10 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	23	09:52 (13)
2	09:06		09:50 (13)	08:25		10:02 (13)	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36			08:41		09:30 (13)
	15:47	9	09:59 (13)	16:48	4	10:06 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	21	09:51 (13)
3	09:06		09:49 (13)	08:23			07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38			08:43		09:31 (13)
	15:48	12	10:01 (13)	16:51			17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	20	09:51 (13)
4	09:05		09:48 (13)	08:21			07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:32 (13)
	15:49	14	10:02 (13)	16:53			17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	19	09:51 (13)
5	09:05		09:49 (13)	08:19			07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:33 (13)
	15:51	15	10:04 (13)	16:55			18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	18	09:51 (13)
6	09:04		09:48 (13)	08:16			07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45			08:48		09:33 (13)
	15:52	17	10:05 (13)	16:58			18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	17	09:50 (13)
7	09:04		09:48 (13)	08:14			07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:48			08:49		09:35 (13)
	15:54	18	10:06 (13)	17:00			18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	15	09:50 (13)
8	09:03		09:47 (13)	08:12			07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:36 (13)
	15:56	19	10:06 (13)	17:02			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	14	09:50 (13)
9	09:02		09:47 (13)	08:10			06:58	06:32	05:15	04:25	04:34	05:32	06:38	07:42	07:52		09:32 (13)	08:52		09:38 (13)
	15:57	20	10:07 (13)	17:05			18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	5	09:37 (13)	15:37	12	09:50 (13)
10	09:01		09:47 (13)	08:07			06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54		09:29 (13)	08:54		09:39 (13)
	15:59	21	10:08 (13)	17:07			18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	12	09:41 (13)	15:36	10	09:49 (13)
11	09:00		09:47 (13)	08:05			06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		09:27 (13)	08:55		09:41 (13)
	16:01	23	10:10 (13)	17:10			18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	16	09:43 (13)	15:36	8	09:49 (13)
12	08:59		09:47 (13)	08:03			06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59		09:26 (13)	08:56		09:42 (13)
	16:03	23	10:10 (13)	17:12			18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	19	09:45 (13)	15:35	5	09:47 (13)
13	08:58		09:47 (13)	08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		09:25 (13)	08:58		
	16:04	24	10:11 (13)	17:14			18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12	20	09:45 (13)	15:35		
14	08:57		09:47 (13)	07:58			06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		09:24 (13)	08:59		
	16:06	24	10:11 (13)	17:17			18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	23	09:47 (13)	15:35		
15	08:56		09:47 (13)	07:55			06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06		09:24 (13)	09:00		
	16:08	26	10:13 (13)	17:19			18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	24	09:48 (13)	15:35		
16	08:54		09:47 (13)	07:53			06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:23 (13)	09:01		
	16:10	26	10:13 (13)	17:21			18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	25	09:48 (13)	15:35		
17	08:53		09:47 (13)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10		09:24 (13)	09:02		
	16:12	26	10:13 (13)	17:24			18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	25	09:49 (13)	15:35		
18	08:52		09:48 (13)	07:48			06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		09:23 (13)	09:03		
	16:14	26	10:14 (13)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	26	09:49 (13)	15:35		
19	08:50		09:48 (13)	07:46			06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:24 (13)	09:03		
	16:17	27	10:15 (13)	17:29			18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	26	09:50 (13)	15:35		
20	08:49		09:48 (13)	07:43			06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:23 (13)	09:04		
	16:19	27	10:15 (13)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	27	09:50 (13)	15:35		
21	08:47		09:48 (13)	07:40			06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		09:24 (13)	09:05		
	16:21	27	10:15 (13)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	27	09:51 (13)	15:36		
22	08:46		09:48 (13)	07:38			06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:24 (13)	09:05		
	16:23	27	10:15 (13)	17:36			18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	27	09:51 (13)	15:36		
23	08:44		09:49 (13)	07:35			06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:24 (13)	09:06		
	16:25	26	10:15 (13)	17:38			18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	27	09:51 (13)	15:37		
24	08:42		09:49 (13)	07:33			06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		09:25 (13)	09:06		
	16:27	26	10:15 (13)	17:40			18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	26	09:51 (13)	15:37		
25	08:41		09:50 (13)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:25 (13)	09:07		
	16:30	25	10:15 (13)	17:43			18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	26	09:51 (13)	15:38		
26	08:39		09:51 (13)	07:27			06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:26 (13)	09:07		
	16:32	24	10:15 (13)	17:45			18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	26	09:52 (13)	15:39		
27	08:37		09:51 (13)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:26 (13)	09:07		
	16:34	24	10:15 (13)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	26	09:52 (13)	15:40		
28	08:35		09:53 (13)	07:22			06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:27 (13)	09:07		
	16:37	22	10:15 (13)	17:50			18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	24	09:51 (13)	15:41		
29	08:33		09:53 (13)				07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:27 (13)	09:07		
	16:39	21	10:14 (13)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	24	09:51 (13)	15:42		
30	08:31		09:54 (13)				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:29 (13)	09:07		
	16:41	19	10:13 (13)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	23	09:52 (13)	15:43		
31	08:29		09:56 (13)				06:56		04:34		05:13	06:19		07:31				09:07		09:51 (13)
	16:43	16	10:12 (13)				19:59		22:07		21:44	20:26		16:40				15:44	4	09:55 (13)
Potential sun hours	227			262			365	429	516	539	539	475	386	321	241			207		
Total, worst case		661			15											504			186	
Sun reduction		0.13			0.22											0.15			0.13	
Oper. time red.		0.93			0.93											0.93			0.93	
Wind dir. red.		0.62			0.62											0.62			0.62	
Total reduction		0.08			0.13											0.09			0.07	
Total, real		50			2											45			14	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EQ - Silkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: ER - Silmaci

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:11	22:11	22:24	21:37	20:18	18:54	16:33	15:41
4	09:05	08:20	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:29	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:16	22:21	21:27	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:38
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:10	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:03
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:02	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:36	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:50	18:52	21:00	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:26	08:35	09:06
	16:39		19:54	21:03	22:03	22:26	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: ES - Silveveri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March	April	May	June	July	August	September	October		November		December	
1	09:07	10:22 (5)	08:27	09:00 (1)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:26 (1)	08:39	09:32 (4)
	15:46 58	12:02 (3)	16:46 47	10:17 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38 25	08:51 (1)	15:43 64	11:47 (3)
2	09:06	10:22 (5)	08:25	08:57 (1)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36	08:25 (1)	08:41	09:35 (4)
	15:47 58	12:02 (3)	16:48 49	10:16 (4)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57		16:36 33	09:36 (4)	15:42 60	11:47 (3)
3	09:06	10:22 (5)	08:23	08:57 (1)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38	08:25 (1)	08:43	10:10 (5)
	15:48 58	12:02 (3)	16:51 50	10:16 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33 41	09:40 (4)	15:41 55	11:48 (3)
4	09:06	10:22 (5)	08:21	08:57 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31		07:41	08:25 (1)	08:44	10:10 (5)
	15:50 58	12:02 (3)	16:53 49	10:16 (4)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31 44	09:41 (4)	15:40 54	11:48 (3)
5	09:05	10:24 (5)	08:19	08:56 (1)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43	08:26 (1)	08:46	10:10 (5)
	15:51 57	12:03 (3)	16:56 48	10:14 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48		16:29 46	09:43 (4)	15:40 56	11:49 (3)
6	09:04	10:24 (5)	08:17	08:56 (1)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35		07:45	08:26 (1)	08:48	10:11 (5)
	15:53 58	12:04 (3)	16:58 46	10:13 (4)	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27 47	09:44 (4)	15:39 57	11:50 (3)
7	09:04	10:25 (5)	08:14	08:55 (1)	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38		07:48	08:27 (1)	08:49	10:10 (5)
	15:54 56	12:04 (3)	17:00 43	10:11 (4)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24 48	09:45 (4)	15:38 58	11:50 (3)
8	09:03	10:26 (5)	08:12	08:56 (1)	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40		07:50	08:28 (1)	08:51	10:11 (5)
	15:56 55	12:04 (3)	17:03 39	10:10 (4)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22 49	09:47 (4)	15:37 57	11:50 (3)
9	09:02	10:26 (5)	08:10	08:56 (1)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52	08:28 (1)	08:52	10:11 (5)
	15:58 54	12:04 (3)	17:05 31	10:05 (4)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20 49	09:47 (4)	15:37 58	11:51 (3)
10	09:01	09:52 (4)	08:08	08:56 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55	08:31 (1)	08:54	10:11 (5)
	15:59 60	12:04 (3)	17:07 25	09:21 (1)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18 46	09:48 (4)	15:36 58	11:51 (3)
11	09:00	09:50 (4)	08:05	08:56 (1)	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46		07:57	08:33 (1)	08:55	10:12 (5)
	16:01 63	12:04 (3)	17:10 24	09:20 (1)	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32		16:16 44	09:48 (4)	15:36 58	11:52 (3)
12	08:59	09:49 (4)	08:03	08:57 (1)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59	08:36 (1)	08:56	10:12 (5)
	16:03 64	12:04 (3)	17:12 23	09:20 (1)	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29		16:14 40	09:49 (4)	15:36 58	11:52 (3)
13	08:58	09:48 (4)	08:00	08:58 (1)	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01	08:39 (1)	08:58	10:12 (5)
	16:05 63	12:04 (3)	17:15 21	09:19 (1)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12 34	09:49 (4)	15:35 59	11:52 (3)
14	08:57	09:47 (4)	07:58	08:58 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04	09:17 (4)	08:59	10:13 (5)
	16:07 63	12:04 (3)	17:17 20	09:18 (1)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10 32	09:49 (4)	15:35 60	11:54 (3)
15	08:56	09:47 (4)	07:56	09:00 (1)	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06	09:18 (4)	09:00	10:13 (5)
	16:09 61	12:04 (3)	17:19 17	09:17 (1)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21		16:08 32	09:50 (4)	15:35 60	11:54 (3)
16	08:55	09:46 (4)	07:53	09:02 (1)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08	09:18 (4)	09:01	10:14 (5)
	16:11 59	12:03 (3)	17:22 12	09:14 (1)	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19		16:06 31	09:49 (4)	15:35 59	11:54 (3)
17	08:53	09:45 (4)	07:51	09:07 (1)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10	09:19 (4)	09:02	10:14 (5)
	16:13 52	12:02 (3)	17:24 4	09:11 (1)	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16		16:04 31	09:50 (4)	15:35 60	11:55 (3)
18	08:52	09:46 (4)	07:48		06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02		08:13	09:18 (4)	09:03	10:15 (5)
	16:15 49	12:03 (3)	17:26		18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13		16:02 31	09:49 (4)	15:35 60	11:56 (3)
19	08:50	09:45 (4)	07:46		06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04		08:15	09:19 (4)	09:03	10:14 (5)
	16:17 49	12:02 (3)	17:29		18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11		16:01 31	09:50 (4)	15:35 60	11:55 (3)
20	08:49	09:45 (4)	07:43		06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06		08:17	09:20 (4)	09:04	10:15 (5)
	16:19 46	12:00 (3)	17:31		18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08		15:59 38	11:31 (3)	15:36 60	11:56 (3)
21	08:47	09:45 (4)	07:41		06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		08:19	09:21 (4)	09:05	10:16 (5)
	16:21 43	11:59 (3)	17:33		18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05		15:57 43	11:35 (3)	15:36 60	11:57 (3)
22	08:46	09:45 (4)	07:38		06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11		08:21	09:21 (4)	09:05	10:16 (5)
	16:23 38	11:56 (3)	17:36		18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03		15:56 46	11:36 (3)	15:37 60	11:57 (3)
23	08:44	09:44 (4)	07:35		06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13		08:23	09:22 (4)	09:06	10:17 (5)
	16:25 31	10:15 (4)	17:38		18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00		15:54 49	11:39 (3)	15:37 60	11:58 (3)
24	08:42	09:44 (4)	07:33		06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15		08:25	09:23 (4)	09:06	10:17 (5)
	16:28 31	10:15 (4)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58		15:52 49	11:40 (3)	15:38 60	11:58 (3)
25	08:41	09:45 (4)	07:30		06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:34 (1)	08:27	09:23 (4)	09:07	10:18 (5)
	16:30 31	10:16 (4)	17:43		18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55 8	08:42 (1)	15:51 53	11:41 (3)	15:38 59	11:58 (3)
26	08:39	09:45 (4)	07:28		06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:32 (1)	08:30	09:25 (4)	09:07	10:18 (5)
	16:32 31	10:16 (4)	17:45		18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53 13	08:45 (1)	15:50 59	11:42 (3)	15:39 60	11:59 (3)
27	08:37	09:45 (4)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:29 (1)	08:32	09:26 (4)	09:07	10:19 (5)
	16:35 32	10:17 (4)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50 18	08:47 (1)	15:48 61	11:43 (3)	15:40 59	11:59 (3)
28	08:35	09:46 (4)	07:22		06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:29 (1)	08:33	09:27 (4)	09:07	10:19 (5)
	16:37 31	10:17 (4)	17:50		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48 19	08:48 (1)	15:47 63	11:44 (3)	15:41 60	12:00 (3)
29	08:33	09:07 (1)			07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:27 (1)	08:35	09:28 (4)	09:07	10:20 (5)
	16:39 34	10:17 (4)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45 22	08:49 (1)	15:46 63	11:44 (3)	15:42 59	12:00 (3)
30	08:31	09:04 (1)			06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:27 (1)	08:37	09:31 (4)	09:07	10:21 (5)
	16:41 40	10:17 (4)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43 23	08:50 (1)	15:45 63	11:46 (3)	15:43 59	12:01 (3)
31	08:29	09:02 (1)			06:57		04:34		05:13	06:19		07:31	08:26 (1)			09:07	10:20 (5)
	16:44 44	10:17 (4)			19:59		22:07		21:44	20:26		16:41 24	08:50 (1)			15:44 60	12:01 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321		241		207	
Total, worst case		1527		548									127		1321		1827
Sun reduction		0.13		0.22									0.31		0.15		0.13
Oper. time red.		0.93		0.93									0.93		0.93		0.93
Wind dir. red.		0.63		0.63									0.64		0.63		0.63
Total reduction		0.08		0.13									0.18		0.09		0.07
Total, real		117		71									23		119		135

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: ET - Skalbes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:40	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EU - Skujinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:18	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:23	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:25	04:37	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:09	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:36
18	08:52	07:48	06:33	06:08	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:31	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:54	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:51	04:22	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:58	15:37
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:01	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:33	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:40
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:08	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:10	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:12	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:35		05:14	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EV - Slokas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EW - Smilgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March	April	May	June	July	August	September	October		November		December		
1	09:07	10:38 (3)	08:27	09:15 (4)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:08 (1)	08:39		10:24 (3)
	15:46	34 11:12 (3)	16:46	26 09:41 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	30 09:11 (4)	15:43	34	10:58 (3)
2	09:06	10:38 (3)	08:25	09:14 (4)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36	08:44 (4)	08:41		10:24 (3)
	15:47	34 11:12 (3)	16:48	27 09:41 (4)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36	27 09:11 (4)	15:42	34	10:58 (3)
3	09:06	10:38 (3)	08:23	09:14 (4)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38	08:45 (4)	08:43		10:24 (3)
	15:48	34 11:12 (3)	16:51	28 09:42 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33	27 09:12 (4)	15:41	35	10:59 (3)
4	09:06	10:38 (3)	08:21	09:14 (4)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31		07:41	08:44 (4)	08:45		10:25 (3)
	15:50	34 11:12 (3)	16:53	29 09:43 (4)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31	28 09:12 (4)	15:40	34	10:59 (3)
5	09:05	10:39 (3)	08:19	09:14 (4)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43	08:44 (4)	08:46		10:25 (3)
	15:51	35 11:14 (3)	16:56	28 09:42 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48		16:29	28 09:12 (4)	15:40	35	11:00 (3)
6	09:04	10:40 (3)	08:17	09:14 (4)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35		07:45	08:44 (4)	08:48		10:26 (3)
	15:53	34 11:14 (3)	16:58	29 09:43 (4)	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	28 09:12 (4)	15:39	34	11:00 (3)
7	09:04	10:40 (3)	08:14	09:14 (4)	07:04	06:37	05:20	04:26	04:32	05:28	06:34	07:38		07:48	08:44 (4)	08:49		10:26 (3)
	15:54	34 11:14 (3)	17:00	28 09:42 (4)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24	28 09:12 (4)	15:38	34	11:00 (3)
8	09:03	10:41 (3)	08:12	09:15 (4)	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40		07:50	08:45 (4)	08:51		10:26 (3)
	15:56	34 11:15 (3)	17:03	27 09:42 (4)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	28 09:13 (4)	15:37	34	11:00 (3)
9	09:02	10:40 (3)	08:10	09:15 (4)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52	08:45 (4)	08:52		10:27 (3)
	15:58	35 11:15 (3)	17:05	26 09:41 (4)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20	27 09:12 (4)	15:37	34	11:01 (3)
10	09:01	10:41 (3)	08:08	08:38 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55	08:46 (4)	08:54		10:27 (3)
	15:59	34 11:15 (3)	17:07	31 09:41 (4)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	26 09:12 (4)	15:36	34	11:01 (3)
11	09:00	10:42 (3)	08:05	08:35 (1)	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46		07:57	08:46 (4)	08:55		10:28 (3)
	16:01	34 11:16 (3)	17:10	34 09:40 (4)	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32		16:16	25 09:11 (4)	15:36	34	11:02 (3)
12	08:59	10:41 (3)	08:03	08:33 (1)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59	08:47 (4)	08:56		10:28 (3)
	16:03	35 11:16 (3)	17:12	36 09:40 (4)	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29		16:14	24 09:11 (4)	15:36	34	11:02 (3)
13	08:58	10:42 (3)	08:00	08:30 (1)	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01	08:48 (4)	08:58		10:28 (3)
	16:05	34 11:16 (3)	17:15	36 09:38 (4)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12	23 09:11 (4)	15:35	34	11:02 (3)
14	08:57	10:42 (3)	07:58	08:27 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04	08:49 (4)	08:59		10:30 (3)
	16:07	34 11:16 (3)	17:17	37 09:36 (4)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10	29 10:40 (3)	15:35	33	11:03 (3)
15	08:56	10:43 (3)	07:56	08:28 (1)	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06	08:51 (4)	09:00		10:30 (3)
	16:09	34 11:17 (3)	17:19	30 09:33 (4)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21		16:08	33 10:44 (3)	15:35	33	11:03 (3)
16	08:55	10:44 (3)	07:53	08:27 (1)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08	08:52 (4)	09:01		10:31 (3)
	16:11	33 11:17 (3)	17:22	22 08:49 (1)	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19		16:06	33 10:45 (3)	15:35	32	11:03 (3)
17	08:53	10:45 (3)	07:51	08:28 (1)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10	08:54 (4)	09:02		10:31 (3)
	16:13	32 11:17 (3)	17:24	21 08:49 (1)	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16		16:04	33 10:48 (3)	15:35	33	11:04 (3)
18	08:52	10:45 (3)	07:48	08:27 (1)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	09:06 (1)	08:13	08:58 (4)	09:03		10:32 (3)
	16:15	32 11:17 (3)	17:26	22 08:49 (1)	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	5 09:11 (1)	16:02	28 10:49 (3)	15:35	32	11:04 (3)
19	08:50	10:46 (3)	07:46	08:27 (1)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	09:02 (1)	08:15	10:24 (3)	09:03		10:31 (3)
	16:17	31 11:17 (3)	17:29	21 08:48 (1)	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	12 09:14 (1)	16:01	26 10:50 (3)	15:35	33	11:04 (3)
20	08:49	10:46 (3)	07:43	08:29 (1)	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	09:01 (1)	08:17	10:23 (3)	09:04		10:32 (3)
	16:19	31 11:17 (3)	17:31	19 08:48 (1)	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15 09:16 (1)	15:59	28 10:51 (3)	15:36	33	11:05 (3)
21	08:47	10:47 (3)	07:41	08:29 (1)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:59 (1)	08:19	10:23 (3)	09:05		10:33 (3)
	16:21	29 11:16 (3)	17:33	17 08:46 (1)	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	18 09:17 (1)	15:57	29 10:52 (3)	15:36	33	11:06 (3)
22	08:46	10:48 (3)	07:38	08:30 (1)	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:59 (1)	08:21	10:23 (3)	09:05		10:33 (3)
	16:23	28 11:16 (3)	17:36	15 08:45 (1)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	19 09:18 (1)	15:56	30 10:53 (3)	15:37	33	11:06 (3)
23	08:44	10:49 (3)	07:35	08:32 (1)	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:58 (1)	08:23	10:23 (3)	09:06		10:34 (3)
	16:26	26 11:15 (3)	17:38	10 08:42 (1)	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	20 09:18 (1)	15:54	31 10:54 (3)	15:37	33	11:07 (3)
24	08:42	09:24 (4)	07:33		06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:58 (1)	08:25	10:22 (3)	09:06		10:34 (3)
	16:28	28 11:15 (3)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	21 09:19 (1)	15:52	32 10:54 (3)	15:38	33	11:07 (3)
25	08:41	09:20 (4)	07:30		06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	07:57 (1)	08:28	10:22 (3)	09:07		10:35 (3)
	16:30	34 11:14 (3)	17:43		18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	21 08:18 (1)	15:51	33 10:55 (3)	15:38	32	11:07 (3)
26	08:39	09:19 (4)	07:28		06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	07:57 (1)	08:30	10:23 (3)	09:07		10:35 (3)
	16:32	33 11:12 (3)	17:45		18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	22 08:19 (1)	15:50	33 10:56 (3)	15:39	33	11:08 (3)
27	08:37	09:18 (4)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	07:57 (1)	08:32	10:23 (3)	09:07		10:35 (3)
	16:35	33 11:11 (3)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	33 09:04 (4)	15:48	33 10:56 (3)	15:40	33	11:08 (3)
28	08:35	09:17 (4)	07:22		06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	07:58 (1)	08:34	10:22 (3)	09:07		10:36 (3)
	16:37	28 11:08 (3)	17:50		18:53	21:01	22:02	22:28	21:50	20:34	19:08	16:48	37 09:07 (4)	15:47	34 10:56 (3)	15:41	33	11:09 (3)
29	08:33	09:16 (4)			07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:00 (1)	08:35	10:22 (3)	09:07		10:36 (3)
	16:39	23 09:39 (4)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	37 09:08 (4)	15:46	35 10:57 (3)	15:42	33	11:09 (3)
30	08:31	09:15 (4)			07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:03 (1)	08:37	10:24 (3)	09:07		10:37 (3)
	16:41	24 09:39 (4)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	35 09:09 (4)	15:45	34 10:58 (3)	15:43	33	11:10 (3)
31	08:29	09:15 (4)			06:57		04:34		05:13	06:19		07:31	08:05 (1)			09:07		10:37 (3)
	16:44	25 09:40 (4)			19:59		22:07		21:44	20:26		16:41	33 09:10 (4)			15:44	33	11:10 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321		241		207		
Total, worst case		983		599									328		883		1035	
Sun reduction		0.13		0.22									0.31		0.15		0.13	
Oper. time red.		0.93		0.93									0.93		0.93		0.93	
Wind dir. red.		0.61		0.63									0.63		0.62		0.61	
Total reduction		0.07		0.13									0.18		0.09		0.07	
Total, real		73		78									58		79		75	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EX - Smil š kalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23	09:06
	16:25	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:26	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EY - Soles

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March		April		May		June	
1	09:06	08:27	07:19		06:54		19:21 (8)		05:34	
	15:45	16:46	17:52		20:01	11	19:32 (8)		21:07	
2	09:06	08:25	07:17		06:51		19:18 (8)		05:31	
	15:47	16:48	17:54		20:03	16	19:34 (8)		21:09	
3	09:05	08:23	07:14		06:48		19:16 (8)		05:29	
	15:48	16:51	17:56		20:05	20	19:36 (8)		21:12	
4	09:05	08:21	07:11		06:45		19:15 (8)		05:26	
	15:49	16:53	17:59		20:07	22	19:37 (8)		21:14	
5	09:04	08:18	07:09		06:42		19:14 (8)		05:24	
	15:51	16:55	18:01		20:10	24	19:38 (8)		21:16	
6	09:04	08:16	07:06		06:40		19:13 (8)		05:22	
	15:52	16:58	18:03		20:12	25	19:38 (8)		21:18	
7	09:03	08:14	07:03		06:37		19:12 (8)		05:19	
	15:54	17:00	18:05		20:14	25	19:37 (8)		21:20	
8	09:02	08:12	07:00		06:34		19:12 (8)		05:17	
	15:56	17:02	18:08		20:16	25	19:37 (8)		21:22	1
9	09:02	08:09	06:58		06:31		19:12 (8)		05:15	
	15:57	17:05	18:10		20:19	25	19:37 (8)		21:25	7
10	09:01	08:07	06:55		06:29		19:12 (8)		05:12	
	15:59	17:07	18:12		20:21	24	19:36 (8)		21:27	10
11	09:00	08:05	06:52		06:26		19:12 (8)		05:10	
	16:01	17:10	18:14		20:23	23	19:35 (8)		21:29	14
12	08:59	08:02	06:49		06:23		19:13 (8)		05:08	
	16:03	17:12	18:17		20:25	22	19:35 (8)		21:31	17
13	08:58	08:00	06:47		06:20		19:13 (8)		05:06	
	16:05	17:14	18:19		20:27	20	19:33 (8)		21:33	20
14	08:57	07:58	06:44		06:18		19:14 (8)		05:04	
	16:06	17:17	18:21		20:30	17	19:31 (8)		21:35	21
15	08:55	07:55	06:41		06:15		19:16 (8)		05:02	
	16:08	17:19	18:23		20:32	14	19:30 (8)		21:37	23
16	08:54	07:53	06:38		06:12		19:19 (8)		05:00	
	16:10	17:21	18:26		20:34	7	19:26 (8)		21:39	23
17	08:53	07:50	06:36		06:10				04:58	
	16:12	17:24	18:28		20:36				21:41	24
18	08:51	07:48	06:33		06:07				04:56	
	16:15	17:26	18:30		20:38				21:43	24
19	08:50	07:45	06:30		06:04				04:54	
	16:17	17:28	18:32		20:41				21:45	25
20	08:48	07:43	06:27		06:02				04:52	
	16:19	17:31	18:34		20:43				21:47	24
21	08:47	07:40	06:24		05:59				04:50	
	16:21	17:33	18:37		20:45				21:49	24
22	08:45	07:38	06:22		05:56				04:48	
	16:23	17:36	18:39		20:47				21:51	25
23	08:44	07:35	06:19		05:54				04:46	
	16:25	17:38	18:41		20:49				21:53	24
24	08:42	07:32	06:16		05:51				04:45	
	16:27	17:40	18:43		20:52				21:55	23
25	08:40	07:30	06:13		05:49				04:43	
	16:30	17:42	18:46		20:54				21:57	22
26	08:38	07:27	06:10		05:46				04:41	
	16:32	17:45	18:48		20:56				21:58	23
27	08:37	07:25	06:08		05:44				04:40	
	16:34	17:47	18:50		20:58				22:00	22
28	08:35	07:22	06:05		05:41				04:38	
	16:37	17:49	18:52		21:01				22:02	21
29	08:33		07:02		05:39				04:37	
	16:39		19:54		21:03				22:04	19
30	08:31		06:59		05:36				04:35	
	16:41		19:56		21:05				22:05	18
31	08:29		06:56	19:24 (8)					04:34	
	16:44		19:59	5 19:29 (8)					22:07	18
Potential sun hours	227	262	365		429		515		539	
Total, worst case			5		320		472		75	
Sun reduction			0.37		0.46		0.58		0.53	
Oper. time red.			0.93		0.93		0.93		0.93	
Wind dir. red.			0.64		0.64		0.62		0.62	
Total reduction			0.22		0.27		0.33		0.30	
Total, real			1		88		157		23	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EY - Soles

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July			August			September			October	November	December
1	04:26			05:15		20:49 (9)	06:21		19:11 (8)	07:24	07:33	08:39
	22:26			21:41	15	21:04 (9)	20:23	23	19:34 (8)	18:59	16:38	15:43
2	04:27			05:17		20:50 (9)	06:23		19:11 (8)	07:26	07:36	08:40
	22:25			21:39	12	21:02 (9)	20:20	24	19:35 (8)	18:56	16:36	15:42
3	04:28			05:19		20:51 (9)	06:25		19:10 (8)	07:29	07:38	08:42
	22:25			21:37	10	21:01 (9)	20:18	25	19:35 (8)	18:54	16:33	15:41
4	04:29			05:21		20:54 (9)	06:27		19:10 (8)	07:31	07:40	08:44
	22:24			21:34	5	20:59 (9)	20:15	25	19:35 (8)	18:51	16:31	15:40
5	04:30			05:23			06:29		19:09 (8)	07:33	07:43	08:46
	22:23			21:32			20:12	25	19:34 (8)	18:48	16:29	15:39
6	04:31		20:54 (9)	05:25			06:31		19:09 (8)	07:35	07:45	08:47
	22:22	6	21:00 (9)	21:30			20:09	25	19:34 (8)	18:45	16:26	15:39
7	04:32		20:53 (9)	05:27			06:33		19:09 (8)	07:37	07:47	08:49
	22:21	8	21:01 (9)	21:28			20:07	24	19:33 (8)	18:43	16:24	15:38
8	04:33		20:52 (9)	05:30			06:36		19:10 (8)	07:39	07:49	08:50
	22:20	11	21:03 (9)	21:25			20:04	22	19:32 (8)	18:40	16:22	15:37
9	04:35		20:51 (9)	05:32			06:38		19:10 (8)	07:42	07:52	08:52
	22:19	12	21:03 (9)	21:23			20:01	20	19:30 (8)	18:37	16:20	15:37
10	04:36		20:50 (9)	05:34			06:40		19:11 (8)	07:44	07:54	08:53
	22:18	14	21:04 (9)	21:20			19:58	16	19:27 (8)	18:34	16:18	15:36
11	04:37		20:50 (9)	05:36			06:42		19:13 (8)	07:46	07:56	08:55
	22:17	16	21:06 (9)	21:18			19:55	12	19:25 (8)	18:32	16:16	15:36
12	04:39		20:49 (9)	05:38			06:44		19:15 (8)	07:48	07:59	08:56
	22:16	17	21:06 (9)	21:16			19:53	7	19:22 (8)	18:29	16:14	15:35
13	04:40		20:48 (9)	05:40			06:46			07:50	08:01	08:57
	22:15	19	21:07 (9)	21:13			19:50			18:26	16:12	15:35
14	04:42		20:49 (9)	05:42			06:48			07:53	08:03	08:58
	22:13	19	21:08 (9)	21:11			19:47			18:24	16:10	15:35
15	04:43		20:48 (9)	05:44			06:50			07:55	08:05	08:59
	22:12	20	21:08 (9)	21:08			19:44			18:21	16:08	15:35
16	04:45		20:47 (9)	05:47			06:52			07:57	08:08	09:00
	22:11	21	21:08 (9)	21:06			19:41			18:18	16:06	15:35
17	04:47		20:47 (9)	05:49			06:55			07:59	08:10	09:01
	22:09	22	21:09 (9)	21:03			19:39			18:16	16:04	15:35
18	04:48		20:46 (9)	05:51			06:57			08:01	08:12	09:02
	22:08	23	21:09 (9)	21:00			19:36			18:13	16:02	15:35
19	04:50		20:47 (9)	05:53			06:59			08:04	08:14	09:03
	22:06	23	21:10 (9)	20:58			19:33			18:10	16:00	15:35
20	04:52		20:47 (9)	05:55			07:01			08:06	08:16	09:04
	22:04	24	21:11 (9)	20:55			19:30			18:08	15:59	15:36
21	04:54		20:46 (9)	05:57			07:03			08:08	08:19	09:04
	22:03	24	21:10 (9)	20:53			19:27			18:05	15:57	15:36
22	04:55		20:46 (9)	05:59			07:05			08:10	08:21	09:05
	22:01	25	21:11 (9)	20:50			19:24			18:03	15:55	15:36
23	04:57		20:46 (9)	06:02			07:07			08:13	08:23	09:05
	21:59	24	21:10 (9)	20:47			19:22			18:00	15:54	15:37
24	04:59		20:46 (9)	06:04			07:09			08:15	08:25	09:06
	21:57	25	21:11 (9)	20:45			19:19			17:57	15:52	15:38
25	05:01		20:47 (9)	06:06			07:11			07:17	08:27	09:06
	21:55	24	21:11 (9)	20:42			19:16			16:55	15:51	15:38
26	05:03		20:47 (9)	06:08			07:14			07:20	08:29	09:06
	21:53	24	21:11 (9)	20:39			19:13			16:52	15:49	15:39
27	05:05		20:46 (9)	06:10		19:20 (8)	07:16			07:22	08:31	09:06
	21:51	24	21:10 (9)	20:37	8	19:28 (8)	19:10			16:50	15:48	15:40
28	05:07		20:47 (9)	06:12		19:17 (8)	07:18			07:24	08:33	09:07
	21:49	23	21:10 (9)	20:34	14	19:31 (8)	19:08			16:48	15:47	15:41
29	05:09		20:47 (9)	06:14		19:15 (8)	07:20			07:26	08:35	09:07
	21:47	23	21:10 (9)	20:31	17	19:32 (8)	19:05			16:45	15:45	15:42
30	05:11		20:48 (9)	06:16		19:13 (8)	07:22			07:29	08:37	09:07
	21:45	21	21:09 (9)	20:29	20	19:33 (8)	19:02			16:43	15:44	15:43
31	05:13		20:49 (9)	06:19		19:12 (8)				07:31		09:06
	21:43	18	21:07 (9)	20:26	22	19:34 (8)				16:40		15:44
Potential sun hours	538			474			386			321	241	207
Total, worst case		510			123			248				
Sun reduction		0.57			0.55			0.43				
Oper. time red.		0.93			0.93			0.93				
Wind dir. red.		0.62			0.63			0.64				
Total reduction		0.32			0.32			0.26				
Total, real		165			39			63				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: EZ - Sprundas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June		July		August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33		04:26	21:36 (8)	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08		22:26	7 21:43 (8)	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32		04:27	21:37 (8)	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10		22:25	6 21:43 (8)	21:39	20:20	18:56	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:30		04:28	21:39 (8)	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:11	22:11		22:25	3 21:42 (8)	21:37	20:18	18:54	16:33	15:41
4	09:05	08:20	07:11	06:45	05:26	04:29		04:29	21:40 (8)	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:07	21:14	22:13		22:24	2 21:42 (8)	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28		04:30		05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14		22:23		21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:22	04:27		04:31		05:25	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15		22:22		21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26		04:32		05:28	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17		22:21		21:27	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26		04:33		05:30	06:36	07:39	07:49	08:50
	15:56	17:02	18:08	20:16	21:22	22:18	1	21:36 (8)	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25		21:34 (8)	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	3	21:37 (8)	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24		21:33 (8)	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	5	21:38 (8)	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23		21:32 (8)	04:37	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:14	20:23	21:29	22:21	6	21:38 (8)	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23		21:33 (8)	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	7	21:40 (8)	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22		21:32 (8)	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	8	21:40 (8)	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22		21:32 (8)	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	9	21:41 (8)	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22		21:32 (8)	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	9	21:41 (8)	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21		21:32 (8)	04:45	05:47	06:52	07:57	08:08	09:00
	16:11	17:21	18:26	20:34	21:39	22:25	10	21:42 (8)	22:10	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21		21:32 (8)	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	11	21:43 (8)	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21		21:32 (8)	04:48	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	11	21:43 (8)	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21		21:32 (8)	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	12	21:44 (8)	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21		21:32 (8)	04:52	05:55	07:01	08:06	08:16	09:03
	16:19	17:31	18:35	20:43	21:47	22:27	12	21:44 (8)	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21		21:32 (8)	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	12	21:44 (8)	22:02	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21		21:32 (8)	04:56	05:59	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	12	21:44 (8)	22:01	20:50	19:24	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:47	04:21		21:33 (8)	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	12	21:45 (8)	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22		21:33 (8)	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	11	21:44 (8)	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22		21:33 (8)	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	11	21:44 (8)	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23		21:34 (8)	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	10	21:44 (8)	21:53	20:39	19:13	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23		21:34 (8)	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	10	21:44 (8)	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24		21:35 (8)	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:49	18:52	21:00	22:02	22:27	9	21:44 (8)	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24		21:36 (8)	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	8	21:44 (8)	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25		21:36 (8)	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	7	21:43 (8)	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34				05:13	06:19		07:31		09:06
	16:44		19:59		22:07				21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539		538		474	386	321	241	207
Total, worst case							206		18					
Sun reduction							0.53		0.57					
Oper. time red.							0.93		0.93					
Wind dir. red.							0.64		0.64					
Total reduction							0.31		0.33					
Total, real							65		6					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FA - Stienu ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		10:03 (3)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:47 (3)
	15:46	22	10:25 (3)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	26	10:13 (3)
2	09:06		10:02 (3)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:47 (3)
	15:47	24	10:26 (3)	16:48	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	26	10:13 (3)
3	09:06		10:02 (3)	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		09:48 (3)
	15:48	24	10:26 (3)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	26	10:14 (3)
4	09:06		10:03 (3)	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		09:48 (3)
	15:50	24	10:27 (3)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	26	10:14 (3)
5	09:05		10:03 (3)	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43			08:46		09:49 (3)
	15:51	25	10:28 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29			15:40	25	10:14 (3)
6	09:04		10:04 (3)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		09:50 (3)
	15:53	24	10:28 (3)	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	25	10:15 (3)
7	09:04		10:04 (3)	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48			08:49		09:50 (3)
	15:54	25	10:29 (3)	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	24	10:14 (3)
8	09:03		10:04 (3)	08:12	07:01	06:35	05:17	04:26	04:33	05:30	06:36	07:40	07:50			08:51		09:50 (3)
	15:56	26	10:30 (3)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	25	10:15 (3)
9	09:02		10:04 (3)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		09:51 (3)
	15:58	25	10:29 (3)	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20			15:37	24	10:15 (3)
10	09:01		10:04 (3)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55			08:54		09:51 (3)
	15:59	26	10:30 (3)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	24	10:15 (3)
11	09:00		10:05 (3)	08:05	06:53	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:57			08:55		09:53 (3)
	16:01	26	10:31 (3)	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16			15:36	23	10:16 (3)
12	08:59		10:05 (3)	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59			08:56		09:53 (3)
	16:03	26	10:31 (3)	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14			15:36	22	10:15 (3)
13	08:58		10:06 (3)	08:01	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		09:53 (3)
	16:05	26	10:32 (3)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12			15:35	22	10:15 (3)
14	08:57		10:05 (3)	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04			08:59		09:55 (3)
	16:07	26	10:31 (3)	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	21	10:16 (3)
15	08:56		10:07 (3)	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06			09:00		09:55 (3)
	16:09	25	10:32 (3)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08			15:35	22	10:17 (3)
16	08:55		10:07 (3)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:51 (3)	09:01		09:56 (3)
	16:11	25	10:32 (3)	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	9	10:00 (3)	15:35	21	10:17 (3)
17	08:53		10:08 (3)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		09:49 (3)	09:02		09:56 (3)
	16:13	25	10:33 (3)	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	14	10:03 (3)	15:35	21	10:17 (3)
18	08:52		10:08 (3)	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13		09:48 (3)	09:03		09:57 (3)
	16:15	25	10:33 (3)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	16	10:04 (3)	15:35	21	10:18 (3)
19	08:50		10:09 (3)	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:47 (3)	09:03		09:58 (3)
	16:17	24	10:33 (3)	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	19	10:06 (3)	15:35	20	10:18 (3)
20	08:49		10:09 (3)	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:46 (3)	09:04		09:57 (3)
	16:19	23	10:32 (3)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	20	10:06 (3)	15:36	21	10:18 (3)
21	08:47		10:10 (3)	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		09:46 (3)	09:05		09:58 (3)
	16:21	22	10:32 (3)	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05	15:57	22	10:08 (3)	15:36	21	10:19 (3)
22	08:46		10:11 (3)	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:45 (3)	09:05		09:58 (3)
	16:23	20	10:31 (3)	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	23	10:08 (3)	15:37	21	10:19 (3)
23	08:44		10:12 (3)	07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23		09:46 (3)	09:06		09:59 (3)
	16:26	19	10:31 (3)	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	24	10:10 (3)	15:37	21	10:20 (3)
24	08:42		10:14 (3)	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:45 (3)	09:06		10:00 (3)
	16:28	16	10:30 (3)	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	25	10:10 (3)	15:38	20	10:20 (3)
25	08:41		10:15 (3)	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28		09:45 (3)	09:07		10:00 (3)
	16:30	14	10:29 (3)	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	25	10:10 (3)	15:38	20	10:20 (3)
26	08:39		10:18 (3)	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:46 (3)	09:07		10:00 (3)
	16:32	9	10:27 (3)	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	25	10:11 (3)	15:39	21	10:21 (3)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:46 (3)	09:07		10:00 (3)
	16:35			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	25	10:11 (3)	15:40	22	10:22 (3)
28	08:35			07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34		09:46 (3)	09:07		10:01 (3)
	16:37			17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	26	10:12 (3)	15:41	21	10:22 (3)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:46 (3)	09:07		10:01 (3)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	26	10:12 (3)	15:42	22	10:23 (3)
30	08:31				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		09:47 (3)	09:07		10:02 (3)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	26	10:13 (3)	15:43	22	10:24 (3)
31	08:29				06:57		04:34		05:13	06:19		07:32				09:07		10:02 (3)
	16:44				19:59		22:07		21:44	20:26		16:41				15:44	22	10:24 (3)
Potential sun hours	227			262	365	429	515	539	538	474	386	321	241			207		
Total, worst case		596												325			698	
Sun reduction		0.13												0.15			0.13	
Oper. time red.		0.93												0.93			0.93	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.07												0.09			0.07	
Total, real		44												28			51	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FB - Straujupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:49	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FC - Sunuki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:07		09:50 (4)	08:27		09:14 (1)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:28 (4)
	15:46	26	11:24 (3)	16:46	16	09:30 (1)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	20	09:48 (4)
2	09:06		09:49 (4)	08:25		09:15 (1)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:28 (4)
	15:47	28	11:24 (3)	16:48	14	09:29 (1)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	29	11:04 (3)
3	09:06		09:48 (4)	08:23		09:17 (1)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		09:29 (4)
	15:48	29	11:23 (3)	16:51	11	09:28 (1)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	31	11:06 (3)
4	09:06		09:48 (4)	08:21		09:19 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		09:30 (4)
	15:50	30	11:24 (3)	16:53	7	09:26 (1)	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	30	11:07 (3)
5	09:05		09:47 (4)	08:19			07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43			08:46		09:31 (4)
	15:51	31	11:24 (3)	16:56			18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29			15:40	32	11:09 (3)
6	09:04		09:46 (4)	08:17			07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		09:32 (4)
	15:53	32	11:24 (3)	16:58			18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	32	11:10 (3)
7	09:04		09:46 (4)	08:14			07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48		08:49 (1)	08:49		09:33 (4)
	15:54	32	11:24 (3)	17:00			18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	7	08:56 (1)	15:38	31	11:10 (3)
8	09:03		09:46 (4)	08:12			07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50		08:47 (1)	08:51		09:35 (4)
	15:56	31	11:23 (3)	17:03			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	12	08:59 (1)	15:37	30	11:11 (3)
9	09:02		09:45 (4)	08:10			06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52		08:46 (1)	08:52		09:37 (4)
	15:58	30	11:22 (3)	17:05			18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	13	08:59 (1)	15:37	29	11:13 (3)
10	09:01		09:45 (4)	08:08			06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55		08:45 (1)	08:54		09:38 (4)
	15:59	28	11:21 (3)	17:07			18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	16	09:01 (1)	15:36	28	11:13 (3)
11	09:00		09:46 (4)	08:05			06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		08:44 (1)	08:55		09:40 (4)
	16:01	22	11:18 (3)	17:10			18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	17	09:01 (1)	15:36	26	11:14 (3)
12	08:59		09:45 (4)	08:03			06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59		08:44 (1)	08:56		09:41 (4)
	16:03	21	10:06 (4)	17:12			18:17	20:26	21:31	22:23	22:17	21:16	19:53	18:29	16:14	25	09:36 (4)	15:36	23	11:14 (3)
13	08:58		09:45 (4)	08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		08:45 (1)	08:58		10:52 (3)
	16:05	22	10:07 (4)	17:15			18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	30	09:39 (4)	15:35	23	11:15 (3)
14	08:57		09:45 (4)	07:58			06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04		08:44 (1)	08:59		10:53 (3)
	16:07	22	10:07 (4)	17:17			18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	33	09:40 (4)	15:35	23	11:16 (3)
15	08:56		09:46 (4)	07:56			06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06		08:45 (1)	09:00		10:54 (3)
	16:09	22	10:08 (4)	17:19			18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	35	09:42 (4)	15:35	22	11:16 (3)
16	08:55		09:45 (4)	07:53			06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		08:46 (1)	09:01		10:54 (3)
	16:11	24	10:09 (4)	17:22			18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	37	09:43 (4)	15:35	23	11:17 (3)
17	08:53		09:46 (4)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		08:49 (1)	09:02		10:54 (3)
	16:13	24	10:10 (4)	17:24			18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	35	09:44 (4)	15:35	24	11:18 (3)
18	08:52		09:46 (4)	07:48			06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13		08:51 (1)	09:03		10:55 (3)
	16:15	24	10:10 (4)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	32	09:44 (4)	15:35	23	11:18 (3)
19	08:50		09:46 (4)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		08:54 (1)	09:03		10:55 (3)
	16:17	24	10:10 (4)	17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	30	09:45 (4)	15:35	24	11:19 (3)
20	08:49		09:47 (4)	07:43			06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		08:56 (1)	09:04		10:55 (3)
	16:19	23	10:10 (4)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	28	09:45 (4)	15:36	24	11:19 (3)
21	08:47		09:23 (1)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		08:59 (1)	09:05		10:56 (3)
	16:21	25	10:10 (4)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	25	09:46 (4)	15:36	24	11:20 (3)
22	08:46		09:21 (1)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:23 (4)	09:05		10:56 (3)
	16:23	28	10:10 (4)	17:36			18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	23	09:46 (4)	15:37	24	11:20 (3)
23	08:44		09:19 (1)	07:35			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23		09:23 (4)	09:06		10:57 (3)
	16:25	30	10:10 (4)	17:38			18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	24	09:47 (4)	15:37	24	11:21 (3)
24	08:42		09:17 (1)	07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:23 (4)	09:06		10:57 (3)
	16:28	32	10:10 (4)	17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	24	09:47 (4)	15:38	24	11:21 (3)
25	08:41		09:15 (1)	07:30			06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28		09:23 (4)	09:07		10:58 (3)
	16:30	35	10:10 (4)	17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	24	09:47 (4)	15:38	23	11:21 (3)
26	08:39		09:13 (1)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:25 (4)	09:07		10:58 (3)
	16:32	37	10:10 (4)	17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	23	09:48 (4)	15:39	23	11:21 (3)
27	08:37		09:12 (1)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:25 (4)	09:07		10:59 (3)
	16:35	35	10:09 (4)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	22	09:47 (4)	15:40	23	11:22 (3)
28	08:35		09:12 (1)	07:22			06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34		09:25 (4)	09:07		10:59 (3)
	16:37	34	10:08 (4)	17:50			18:53	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	22	09:47 (4)	15:41	23	11:22 (3)
29	08:33		09:13 (1)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:25 (4)	09:07		11:00 (3)
	16:39	30	10:07 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	22	09:47 (4)	15:42	23	11:23 (3)
30	08:31		09:12 (1)				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		09:27 (4)	09:07		11:01 (3)
	16:41	24	10:04 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	21	09:48 (4)	15:43	22	11:23 (3)
31	08:29		09:13 (1)				06:57		04:34		05:13	06:19		07:32				09:07		11:01 (3)
	16:44	17	09:30 (1)				19:59		22:07		21:44	20:26		16:41				15:44	22	11:23 (3)
Potential sun hours	227			262			365	429	515	539	538	475	386	321	241			207		
Total, worst case		852			48											580			782	
Sun reduction		0.13			0.22											0.15			0.13	
Oper. time red.		0.93			0.93											0.93			0.93	
Wind dir. red.		0.63			0.64											0.63			0.63	
Total reduction		0.08			0.13											0.09			0.07	
Total, real		65			6											52			58	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FD - Svetupe

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FE - Tamisari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May			June	
1	09:07		10:05 (2)	08:27		10:13 (2)	07:20		07:53 (5)	06:54		07:52 (3)	05:34		06:30 (1)	04:33	
	15:46	19	10:24 (2)	16:46	24	10:37 (2)	17:52	13	08:06 (5)	20:01	27	08:19 (3)	21:08	42	08:16 (3)	22:09	
2	09:06		10:06 (2)	08:25		10:14 (2)	07:17		07:51 (5)	06:51		07:49 (3)	05:31		07:39 (3)	04:32	
	15:47	19	10:25 (2)	16:49	22	10:36 (2)	17:54	17	08:08 (5)	20:04	32	08:21 (3)	21:10	35	08:14 (3)	22:10	
3	09:06		10:05 (2)	08:23		10:16 (2)	07:14		07:48 (5)	06:48		07:22 (4)	05:29		07:40 (3)	04:31	
	15:48	21	10:26 (2)	16:51	18	10:34 (2)	17:57	22	08:10 (5)	20:06	49	08:22 (3)	21:12	32	08:12 (3)	22:12	
4	09:05		10:05 (2)	08:21		10:19 (2)	07:12		07:48 (5)	06:46		07:20 (4)	05:27		07:41 (3)	04:30	
	15:50	22	10:27 (2)	16:53	14	10:33 (2)	17:59	23	08:11 (5)	20:08	57	08:24 (3)	21:14	29	08:10 (3)	22:13	
5	09:05		10:06 (2)	08:19		10:23 (2)	07:09		07:46 (5)	06:43		07:18 (4)	05:24		07:43 (3)	04:29	
	15:51	22	10:28 (2)	16:56	4	10:27 (2)	18:01	26	08:12 (5)	20:10	63	08:25 (3)	21:16	25	08:08 (3)	22:15	
6	09:04		10:06 (2)	08:17			07:06		07:45 (5)	06:40		07:16 (4)	05:22		07:46 (3)	04:28	
	15:53	23	10:29 (2)	16:58			18:04	27	08:12 (5)	20:12	69	08:26 (3)	21:19	19	08:05 (3)	22:16	
7	09:04		10:06 (2)	08:14			07:04		07:44 (5)	06:37		07:15 (4)	05:20		07:50 (3)	04:27	
	15:54	24	10:30 (2)	17:00			18:06	28	08:12 (5)	20:15	72	08:27 (3)	21:21	11	08:01 (3)	22:17	
8	09:03		10:05 (2)	08:12			07:01		07:44 (5)	06:35		07:14 (4)	05:17			04:26	
	15:56	25	10:30 (2)	17:03			18:08	28	08:12 (5)	20:17	73	08:27 (3)	21:23			22:18	
9	09:02		10:05 (2)	08:10			06:58		07:44 (5)	06:32		07:12 (4)	05:15			04:25	
	15:58	26	10:31 (2)	17:05			18:10	29	08:13 (5)	20:19	76	08:28 (3)	21:25			22:19	
10	09:01		10:05 (2)	08:08			06:55		07:44 (5)	06:29		07:11 (4)	05:13			04:24	
	15:59	27	10:32 (2)	17:08			18:13	28	08:12 (5)	20:21	77	08:28 (3)	21:27			22:20	
11	09:00		10:05 (2)	08:05			06:53		07:44 (5)	06:26		07:11 (4)	05:11			04:24	
	16:01	29	10:34 (2)	17:10			18:15	28	08:12 (5)	20:23	78	08:29 (3)	21:29			22:21	
12	08:59		10:05 (2)	08:03			06:50		07:44 (5)	06:24		07:11 (4)	05:08			04:23	
	16:03	29	10:34 (2)	17:12			18:17	27	08:11 (5)	20:26	77	08:28 (3)	21:31			22:22	
13	08:58		10:05 (2)	08:00			06:47		07:44 (5)	06:21		07:10 (4)	05:06			04:23	
	16:05	30	10:35 (2)	17:15			18:19	26	08:10 (5)	20:28	78	08:28 (3)	21:34			22:23	
14	08:57		10:05 (2)	07:58			06:44		07:45 (5)	06:18		07:11 (4)	05:04			04:22	
	16:07	30	10:35 (2)	17:17			18:22	24	08:09 (5)	20:30	78	08:29 (3)	21:36			22:24	
15	08:56		10:05 (2)	07:56			06:41		07:46 (5)	06:15		07:10 (4)	05:02			04:22	
	16:09	31	10:36 (2)	17:19			18:24	22	08:08 (5)	20:32	78	08:28 (3)	21:38			22:25	
16	08:55		10:05 (2)	07:53			06:39		07:47 (5)	06:13		07:11 (4)	05:00			04:21	
	16:11	32	10:37 (2)	17:22			18:26	19	08:06 (5)	20:34	77	08:28 (3)	21:40			22:25	
17	08:53		10:05 (2)	07:51			06:36		07:49 (5)	06:10		06:37 (1)	04:58			04:21	
	16:13	32	10:37 (2)	17:24			18:28	14	08:03 (5)	20:37	79	08:28 (3)	21:42			22:26	
18	08:52		10:06 (2)	07:48			06:33		07:52 (5)	06:07		06:34 (1)	04:56			04:21	
	16:15	32	10:38 (2)	17:26			18:30	6	07:58 (5)	20:39	82	08:27 (3)	21:44			22:26	
19	08:50		10:06 (2)	07:46			06:30			06:05		06:32 (1)	04:54			04:21	
	16:17	33	10:39 (2)	17:29			18:33			20:41	85	08:27 (3)	21:46			22:27	
20	08:49		10:06 (2)	07:43			06:28			06:02		06:29 (1)	04:52			04:21	
	16:19	33	10:39 (2)	17:31			18:35			20:43	87	08:26 (3)	21:48			22:27	
21	08:47		10:06 (2)	07:41			06:25			05:59		06:27 (1)	04:50			04:21	
	16:21	33	10:39 (2)	17:34			18:37			20:45	88	08:26 (3)	21:50			22:28	
22	08:46		10:06 (2)	07:38			06:22			05:57		06:24 (1)	04:48			04:21	
	16:23	33	10:39 (2)	17:36			18:39			20:48	84	08:25 (3)	21:52			22:28	
23	08:44		10:06 (2)	07:35			06:19			05:54		06:24 (1)	04:47			04:22	
	16:26	34	10:40 (2)	17:38			18:42			20:50	74	08:25 (3)	21:53			22:28	
24	08:42		10:07 (2)	07:33			06:16			05:52		06:23 (1)	04:45			04:22	
	16:28	33	10:40 (2)	17:41			18:44			20:52	70	08:23 (3)	21:55			22:28	
25	08:41		10:07 (2)	07:30			06:14			05:49		06:24 (1)	04:43			04:22	
	16:30	33	10:40 (2)	17:43			18:46			20:54	69	08:23 (3)	21:57			22:28	
26	08:39		10:08 (2)	07:28			06:11			05:46		06:24 (1)	04:42			04:23	
	16:32	32	10:40 (2)	17:45			18:48			20:57	67	08:22 (3)	21:59			22:28	
27	08:37		10:09 (2)	07:25			06:08			05:44		06:24 (1)	04:40			04:23	
	16:35	31	10:40 (2)	17:47			18:50			20:59	65	08:21 (3)	22:01			22:28	
28	08:35		10:10 (2)	07:22		07:59 (5)	06:05			05:41		06:25 (1)	04:39			04:24	
	16:37	30	10:40 (2)	17:50	2	08:01 (5)	18:53			21:01	61	08:20 (3)	22:02			22:27	
29	08:33		10:10 (2)				07:02			05:39		06:26 (1)	04:37			04:25	
	16:39	29	10:39 (2)				19:55			21:03	57	08:19 (3)	22:04			22:27	
30	08:31		10:11 (2)				07:00		08:01 (3)	05:36		06:27 (1)	04:36			04:25	
	16:42	27	10:38 (2)				19:57	11	08:12 (3)	21:05	51	08:17 (3)	22:06			22:27	
31	08:29		10:12 (2)				06:57		07:55 (3)				04:34				
	16:44	26	10:38 (2)				19:59	21	08:16 (3)				22:07				
Potential sun hours	227			262			365			429			515			539	
Total, worst case		880			84			439			2080			193			
Sun reduction		0.13			0.22			0.37			0.46			0.58			
Oper. time red.		0.93			0.93			0.93			0.93			0.93			
Wind dir. red.		0.61			0.61			0.59			0.64			0.64			
Total reduction		0.07			0.13			0.20			0.28			0.35			
Total, real		66			11			88			573			67			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FE - Tamisari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July		August			September			October			November			December		
1	04:26		05:15			06:21		07:10 (4)	07:25		08:23 (5)	07:34			08:39		09:47 (2)
	22:26		21:42			20:24	77	08:27 (3)	19:00	27	08:50 (5)	16:38			15:44	29	10:16 (2)
2	04:27		05:17			06:23		07:10 (4)	07:27		08:22 (5)	07:36			08:41		09:48 (2)
	22:26		21:39			20:21	77	08:27 (3)	18:57	28	08:50 (5)	16:36			15:42	28	10:16 (2)
3	04:28		05:19			06:25		07:10 (4)	07:29		08:22 (5)	07:38			08:43		09:49 (2)
	22:25		21:37			20:18	76	08:26 (3)	18:54	28	08:50 (5)	16:34			15:41	27	10:16 (2)
4	04:29		05:22			06:27		07:11 (4)	07:31		08:21 (5)	07:41			08:44		09:50 (2)
	22:24		21:35			20:15	74	08:25 (3)	18:51	29	08:50 (5)	16:31			15:41	26	10:16 (2)
5	04:30		05:24			06:30		07:11 (4)	07:33		08:21 (5)	07:43			08:46		09:51 (2)
	22:24		21:33			20:13	72	08:23 (3)	18:49	28	08:49 (5)	16:29			15:40	25	10:16 (2)
6	04:31		05:26		07:58 (3)	06:32		07:12 (4)	07:35		08:21 (5)	07:45		09:52 (2)	08:48		09:51 (2)
	22:23		21:30	14	08:12 (3)	20:10	69	08:22 (3)	18:46	28	08:49 (5)	16:27	6	09:58 (2)	15:39	24	10:15 (2)
7	04:32		05:28		07:54 (3)	06:34		07:13 (4)	07:38		08:21 (5)	07:48		09:49 (2)	08:49		09:52 (2)
	22:22		21:28	21	08:15 (3)	20:07	63	08:20 (3)	18:43	28	08:49 (5)	16:25	14	10:03 (2)	15:38	23	10:15 (2)
8	04:34		05:30		07:52 (3)	06:36		07:14 (4)	07:40		08:21 (5)	07:50		09:47 (2)	08:51		09:53 (2)
	22:21		21:26	26	08:18 (3)	20:04	58	08:19 (3)	18:40	27	08:48 (5)	16:22	18	10:05 (2)	15:38	22	10:15 (2)
9	04:35		05:32		07:50 (3)	06:38		07:16 (4)	07:42		08:22 (5)	07:52		09:45 (2)	08:52		09:55 (2)
	22:20		21:23	30	08:20 (3)	20:01	50	08:17 (3)	18:38	24	08:46 (5)	16:20	22	10:07 (2)	15:37	20	10:15 (2)
10	04:36		05:34		07:48 (3)	06:40		07:42 (3)	07:44		08:22 (5)	07:55		09:44 (2)	08:54		09:55 (2)
	22:19		21:21	34	08:22 (3)	19:59	32	08:14 (3)	18:35	23	08:45 (5)	16:18	24	10:08 (2)	15:37	19	10:14 (2)
11	04:38		05:36		07:47 (3)	06:42		07:44 (3)	07:46		08:24 (5)	07:57		09:43 (2)	08:55		09:56 (2)
	22:18		21:18	36	08:23 (3)	19:56	28	08:12 (3)	18:32	20	08:44 (5)	16:16	26	10:09 (2)	15:36	19	10:15 (2)
12	04:39		05:38		06:38 (1)	06:44		07:46 (3)	07:49		08:25 (5)	07:59		09:42 (2)	08:56		09:57 (2)
	22:17		21:16	44	08:24 (3)	19:53	22	08:08 (3)	18:29	16	08:41 (5)	16:14	28	10:10 (2)	15:36	17	10:14 (2)
13	04:41		05:41		06:35 (1)	06:46		07:50 (3)	07:51		08:28 (5)	08:01		09:41 (2)	08:58		09:58 (2)
	22:15		21:14	53	08:26 (3)	19:50	13	08:03 (3)	18:27	10	08:38 (5)	16:12	30	10:11 (2)	15:35	16	10:14 (2)
14	04:42		05:43		06:33 (1)	06:49			07:53			08:04		09:41 (2)	08:59		09:59 (2)
	22:14		21:11	59	08:27 (3)	19:47			18:24			16:10	31	10:12 (2)	15:35	16	10:15 (2)
15	04:44		05:45		06:32 (1)	06:51			07:55			08:06		09:42 (2)	09:00		10:00 (2)
	22:13		21:09	62	08:27 (3)	19:45			18:21			16:08	31	10:13 (2)	15:35	14	10:14 (2)
16	04:45		05:47		06:31 (1)	06:53			07:57			08:08		09:41 (2)	09:01		10:01 (2)
	22:11		21:06	65	08:28 (3)	19:42			18:19			16:06	32	10:13 (2)	15:35	13	10:14 (2)
17	04:47		05:49		06:31 (1)	06:55			08:00			08:10		09:41 (2)	09:02		10:02 (2)
	22:10		21:03	67	08:29 (3)	19:39			18:16			16:04	33	10:14 (2)	15:35	12	10:14 (2)
18	04:49		05:51		06:30 (1)	06:57			08:02			08:13		09:41 (2)	09:03		10:03 (2)
	22:08		21:01	69	08:29 (3)	19:36			18:13			16:02	33	10:14 (2)	15:35	12	10:15 (2)
19	04:50		05:53		06:30 (1)	06:59			08:04			08:15		09:41 (2)	09:03		10:03 (2)
	22:06		20:58	71	08:30 (3)	19:33			18:11			16:01	34	10:15 (2)	15:36	11	10:14 (2)
20	04:52		05:55		06:30 (1)	07:01			08:06			08:17		09:41 (2)	09:04		10:04 (2)
	22:05		20:56	77	08:30 (3)	19:30			18:08			15:59	33	10:14 (2)	15:36	11	10:15 (2)
21	04:54		05:58		06:30 (1)	07:03			08:09			08:19		09:42 (2)	09:05		10:05 (2)
	22:03		20:53	85	08:31 (3)	19:28			18:06			15:57	33	10:15 (2)	15:36	10	10:15 (2)
22	04:56		06:00		06:32 (1)	07:05			08:11			08:21		09:42 (2)	09:05		10:05 (2)
	22:01		20:50	88	08:31 (3)	19:25			18:03			15:56	33	10:15 (2)	15:37	10	10:15 (2)
23	04:58		06:02		06:34 (1)	07:08			08:13			08:23		09:42 (2)	09:06		10:06 (2)
	21:59		20:48	87	08:31 (3)	19:22			18:00			15:54	33	10:15 (2)	15:37	10	10:16 (2)
24	05:00		06:04		06:36 (1)	07:10			08:15			08:25		09:43 (2)	09:06		10:06 (2)
	21:58		20:45	85	08:31 (3)	19:19			17:58			15:53	32	10:15 (2)	15:38	11	10:17 (2)
25	05:01		06:06		06:38 (1)	07:12			07:18			08:27		09:43 (2)	09:07		10:06 (2)
	21:56		20:43	82	08:31 (3)	19:16			16:55			15:51	32	10:15 (2)	15:38	11	10:17 (2)
26	05:03		06:08		06:40 (1)	07:14		08:31 (5)	07:20			08:29		09:44 (2)	09:07		10:06 (2)
	21:54		20:40	78	08:31 (3)	19:14	13	08:44 (5)	16:53			15:50	32	10:16 (2)	15:39	12	10:18 (2)
27	05:05		06:10		07:13 (4)	07:16		08:29 (5)	07:22			08:31		09:44 (2)	09:07		10:06 (2)
	21:52		20:37	77	08:30 (3)	19:11	18	08:47 (5)	16:50			15:48	32	10:16 (2)	15:40	13	10:19 (2)
28	05:07		06:13		07:12 (4)	07:18		08:27 (5)	07:25			08:33		09:45 (2)	09:07		10:06 (2)
	21:50		20:34	78	08:30 (3)	19:08	21	08:48 (5)	16:48			15:47	30	10:15 (2)	15:41	14	10:20 (2)
29	05:09		06:15		07:11 (4)	07:20		08:25 (5)	07:27			08:35		09:45 (2)	09:07		10:06 (2)
	21:48		20:32	78	08:29 (3)	19:05	24	08:49 (5)	16:45			15:46	30	10:15 (2)	15:42	15	10:21 (2)
30	05:11		06:17		07:11 (4)	07:23		08:24 (5)	07:29			08:37		09:47 (2)	09:07		10:06 (2)
	21:46		20:29	78	08:29 (3)	19:02	25	08:49 (5)	16:43			15:45	29	10:16 (2)	15:43	15	10:21 (2)
31	05:13		06:19		07:11 (4)				07:31						09:07		10:06 (2)
	21:44		20:26	77	08:28 (3)				16:41						15:44	17	10:23 (2)
Potential sun hours	538		474			386			321			241			207		
Total, worst case				1621			812			316			711			522	
Sun reduction				0.55			0.43			0.31			0.15			0.13	
Oper. time red.				0.93			0.93			0.93			0.93			0.93	
Wind dir. red.				0.64			0.64			0.58			0.61			0.61	
Total reduction				0.33			0.25			0.17			0.09			0.07	
Total, real				528			206			52			62			38	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FF - Taujani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:24	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:48	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FG - Tomsoni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May		June		July		August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34		04:33		04:26		05:31 (2)	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08		22:09	29	05:56 (2)	31	06:02 (2)	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32		04:32		05:27 (2)		05:31 (2)	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10		22:10	29	05:56 (2)	32	06:03 (2)	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29		04:31		05:27 (2)		05:32 (2)	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12		22:12	30	05:57 (2)	31	06:03 (2)	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27		04:30		05:26 (2)		05:32 (2)	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14		22:13	31	05:57 (2)	31	06:03 (2)	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24		04:29		05:26 (2)		05:32 (2)	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16		22:14	31	05:57 (2)	31	06:03 (2)	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22		04:28		05:26 (2)		05:32 (2)	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18		22:16	31	05:57 (2)	31	06:03 (2)	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20		04:27		05:27 (2)		05:33 (2)	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21		22:17	31	05:58 (2)	30	06:03 (2)	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17		04:26		05:27 (2)		05:33 (2)	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23		22:18	31	05:58 (2)	30	06:03 (2)	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15		04:25		05:26 (2)		05:34 (2)	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25		22:19	32	05:58 (2)	30	06:04 (2)	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13		04:24		05:27 (2)		05:34 (2)	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27		22:20	31	05:58 (2)	30	06:04 (2)	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11		04:24		05:27 (2)		05:34 (2)	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29		22:21	31	05:58 (2)	30	06:04 (2)	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09		04:23		05:27 (2)		05:34 (2)	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31		22:22	32	05:59 (2)	29	06:03 (2)	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06		04:23		05:28 (2)		05:35 (2)	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33		22:23	31	05:59 (2)	29	06:04 (2)	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04		04:22		05:27 (2)		05:35 (2)	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36		22:24	32	05:59 (2)	28	06:03 (2)	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02		04:22		05:28 (2)		05:35 (2)	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38		22:25	31	05:59 (2)	28	06:03 (2)	21:09	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00		04:22		05:28 (2)		05:36 (2)	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40		22:25	31	05:59 (2)	27	06:03 (2)	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58		04:21		05:28 (2)		05:36 (2)	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42		22:26	32	06:00 (2)	26	06:02 (2)	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56		04:21		05:29 (2)		05:38 (2)	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44		22:26	31	06:00 (2)	24	06:02 (2)	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	05:35 (2)	04:21		05:29 (2)		05:38 (2)	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46 9	05:44 (2)	22:27	31	06:00 (2)	23	06:01 (2)	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	05:34 (2)	04:21		05:29 (2)		05:39 (2)	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48 13	05:47 (2)	22:27	31	06:00 (2)	22	06:01 (2)	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	05:32 (2)	04:21		05:29 (2)		05:40 (2)	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50 16	05:48 (2)	22:27	31	06:00 (2)	20	06:00 (2)	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	05:30 (2)	04:22		05:30 (2)		05:41 (2)	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51 19	05:49 (2)	22:28	31	06:01 (2)	18	05:59 (2)	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	05:30 (2)	04:22		05:30 (2)		05:43 (2)	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53 21	05:51 (2)	22:28	31	06:01 (2)	15	05:58 (2)	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	05:28 (2)	04:22		05:30 (2)		05:45 (2)	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55 23	05:51 (2)	22:28	31	06:01 (2)	11	05:56 (2)	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	05:28 (2)	04:23		05:30 (2)		05:48 (2)	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57 24	05:52 (2)	22:28	32	06:02 (2)	4	05:52 (2)	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	05:28 (2)	04:23		05:30 (2)			06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	21:59 25	05:53 (2)	22:28	31	06:01 (2)			20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	05:27 (2)	04:24		05:31 (2)			06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01 26	05:53 (2)	22:28	31	06:02 (2)			20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:42	04:39	05:27 (2)	04:24		05:31 (2)			06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02 27	05:54 (2)	22:27	31	06:02 (2)			20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	05:27 (2)	04:25		05:31 (2)			06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04 28	05:55 (2)	22:27	31	06:02 (2)			20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	05:27 (2)	04:26		05:32 (2)			06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06 28	05:55 (2)	22:27	31	06:03 (2)			20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35	05:27 (2)			05:13			06:19		07:31		09:07
	16:44		19:59		22:07 29	05:56 (2)			21:44			20:26		16:41		15:44
Potential sun hours	227	262	365	429	515		539		538		474	386	321	241	207	
Total, worst case					288		930		641							
Sun reduction					0.58		0.53		0.57							
Oper. time red.					0.93		0.93		0.93							
Wind dir. red.					0.65		0.65		0.65							
Total reduction					0.35		0.32		0.34							
Total, real					100		296		217							

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FH - Toskana

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:40	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FI - Tuiskas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:07		10:30 (13)	08:27		10:41 (13)	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34			08:39		10:14 (13)
	15:45	70	14:45 (10)	16:46	31	11:12 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	62	14:33 (10)
2	09:06		10:30 (13)	08:25		10:41 (13)	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36			08:41		10:14 (13)
	15:47	71	14:46 (10)	16:48	30	11:11 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	62	14:33 (10)
3	09:06		10:30 (13)	08:23		10:43 (13)	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38			08:43		10:15 (13)
	15:48	70	14:47 (10)	16:51	27	11:10 (13)	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	61	14:33 (10)
4	09:05		10:30 (13)	08:21		10:44 (13)	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41		10:24 (13)	08:44		10:16 (13)
	15:49	70	14:47 (10)	16:53	24	11:08 (13)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	4	10:28 (13)	15:40	60	14:34 (10)
5	09:05		10:30 (13)	08:19		10:47 (13)	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43		10:19 (13)	08:46		10:16 (13)
	15:51	68	14:47 (10)	16:55	19	11:06 (13)	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15	10:34 (13)	15:39	60	14:34 (10)
6	09:04		10:31 (13)	08:16		10:50 (13)	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45		10:16 (13)	08:48		10:16 (13)
	15:52	65	14:49 (10)	16:58	14	11:04 (13)	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	20	10:36 (13)	15:38	65	14:34 (10)
7	09:04		10:31 (13)	08:14			07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:47		10:14 (13)	08:49		10:17 (13)
	15:54	60	14:49 (10)	17:00			18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	25	10:39 (13)	15:38	69	14:34 (10)
8	09:03		10:31 (13)	08:12			07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50		10:12 (13)	08:51		10:18 (13)
	15:56	60	14:49 (10)	17:02			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	28	10:40 (13)	15:37	70	14:35 (10)
9	09:02		10:31 (13)	08:10			06:58	06:31	05:15	04:25	04:34	05:32	06:38	07:42	07:52		10:12 (13)	08:52		10:19 (13)
	15:57	61	14:49 (10)	17:05			18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	30	10:42 (13)	15:37	70	14:36 (10)
10	09:01		10:31 (13)	08:07			06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54		10:11 (13)	08:54		10:19 (13)
	15:59	61	14:50 (10)	17:07			18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	32	10:43 (13)	15:36	72	14:36 (10)
11	09:00		10:32 (13)	08:05			06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		10:10 (13)	08:55		10:21 (13)
	16:01	60	14:50 (10)	17:10			18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	34	10:44 (13)	15:36	71	14:36 (10)
12	08:59		10:31 (13)	08:03			06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59		10:10 (13)	08:56		10:21 (13)
	16:03	62	14:50 (10)	17:12			18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	35	10:45 (13)	15:35	71	14:36 (10)
13	08:58		10:32 (13)	08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		10:09 (13)	08:57		10:21 (13)
	16:04	62	14:51 (10)	17:14			18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12	36	10:45 (13)	15:35	71	14:36 (10)
14	08:57		10:31 (13)	07:58			06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03		10:09 (13)	08:59		10:23 (13)
	16:06	62	14:50 (10)	17:17			18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	37	10:46 (13)	15:35	71	14:38 (10)
15	08:56		10:32 (13)	07:55			06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06		10:08 (13)	09:00		10:23 (13)
	16:08	62	14:51 (10)	17:19			18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	39	10:47 (13)	15:35	71	14:38 (10)
16	08:54		10:32 (13)	07:53			06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08		10:08 (13)	09:01		10:24 (13)
	16:10	60	14:50 (10)	17:21			18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	40	10:48 (13)	15:35	70	14:38 (10)
17	08:53		10:32 (13)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10		10:09 (13)	09:02		10:25 (13)
	16:12	60	14:50 (10)	17:24			18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	39	10:48 (13)	15:35	71	14:38 (10)
18	08:52		10:33 (13)	07:48			06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		10:08 (13)	09:02		10:25 (13)
	16:14	58	14:50 (10)	17:26			18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	40	10:48 (13)	15:35	70	14:39 (10)
19	08:50		10:33 (13)	07:45			06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		10:09 (13)	09:03		10:25 (13)
	16:17	58	14:50 (10)	17:29			18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	40	10:49 (13)	15:35	72	14:39 (10)
20	08:49		10:33 (13)	07:43			06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		10:09 (13)	09:04		10:26 (13)
	16:19	56	14:49 (10)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	47	14:21 (10)	15:35	70	14:39 (10)
21	08:47		10:33 (13)	07:40			06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		10:09 (13)	09:05		10:27 (13)
	16:21	53	14:48 (10)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	53	14:24 (10)	15:36	70	14:40 (10)
22	08:46		10:34 (13)	07:38			06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		10:09 (13)	09:05		10:27 (13)
	16:23	47	14:46 (10)	17:36			18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	56	14:25 (10)	15:36	70	14:40 (10)
23	08:44		10:34 (13)	07:35			06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		10:09 (13)	09:06		10:28 (13)
	16:25	40	11:14 (13)	17:38			18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	58	14:26 (10)	15:37	70	14:41 (10)
24	08:42		10:34 (13)	07:33			06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		10:10 (13)	09:06		10:28 (13)
	16:27	40	11:14 (13)	17:40			18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	58	14:27 (10)	15:37	72	14:42 (10)
25	08:40		10:35 (13)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		10:10 (13)	09:06		10:28 (13)
	16:30	40	11:15 (13)	17:43			18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	60	14:28 (10)	15:38	71	14:42 (10)
26	08:39		10:36 (13)	07:27			06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		10:11 (13)	09:07		10:28 (13)
	16:32	39	11:15 (13)	17:45			18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	61	14:30 (10)	15:39	71	14:42 (10)
27	08:37		10:36 (13)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		10:11 (13)	09:07		10:29 (13)
	16:34	39	11:15 (13)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	62	14:30 (10)	15:40	71	14:43 (10)
28	08:35		10:37 (13)	07:22			06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		10:11 (13)	09:07		10:29 (13)
	16:37	38	11:15 (13)	17:49			18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	62	14:30 (10)	15:41	71	14:43 (10)
29	08:33		10:37 (13)				07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		10:12 (13)	09:07		10:30 (13)
	16:39	36	11:13 (13)				19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	62	14:31 (10)	15:42	72	14:44 (10)
30	08:31		10:38 (13)				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		10:12 (13)	09:07		10:29 (13)
	16:41	35	11:13 (13)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	62	14:31 (10)	15:43	72	14:44 (10)
31	08:29		10:39 (13)				06:56		04:34		05:13	06:19		07:31				09:07		10:30 (13)
	16:43	34	11:13 (13)				19:59		22:07		21:44	20:26		16:40				15:44	71	14:45 (10)
Potential sun hours	227			262			365	429	516	539	539	475	386	321	241			207		
Total, worst case		1697			145											1135			2140	
Sun reduction		0.13			0.22											0.15			0.13	
Oper. time red.		0.93			0.93											0.93			0.93	
Wind dir. red.		0.62			0.60											0.61			0.63	
Total reduction		0.07			0.12											0.09			0.07	
Total, real		127			18											99			158	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FJ - Ugraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:32	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:15	15:36
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:42	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FK - Upenieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FL - Upeslici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February		March	April	May	June	July	August	September	October		November	December
1	09:07	08:27		07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:39
	15:46	16:46		17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	15:44
2	09:06	08:25		07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27		07:36	08:41
	15:47	16:49		17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57		16:36	15:42
3	09:06	08:23		07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38	08:43
	15:48	16:51		17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:34	15:41
4	09:06	08:21		07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31		07:41	08:45
	15:50	16:53		17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31	15:41
5	09:05	08:19		07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33		07:43	08:46
	15:51	16:56		18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29	15:40
6	09:04	08:17		07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36		07:45	08:48
	15:53	16:58		18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	15:39
7	09:04	08:14		07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38		07:48	08:49
	15:54	17:00		18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:25	15:38
8	09:03	08:12		07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40		07:50	08:51
	15:56	17:03		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	15:38
9	09:02	08:10		06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52	08:52
	15:58	17:05		18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38		16:20	15:37
10	09:01	08:08		06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55	08:54
	15:59	17:08		18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	15:37
11	09:00	08:05		06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46		07:57	08:55
	16:01	17:10		18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32		16:16	15:36
12	08:59	08:03		06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59	08:56
	16:03	17:12		18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29		16:14	15:36
13	08:58	08:01	08:30 (3)	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51		08:01	08:58
	16:05	17:15	7 08:37 (3)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12	15:35
14	08:57	07:58	08:28 (3)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04	08:59
	16:07	17:17	12 08:40 (3)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10	15:35
15	08:56	07:56	08:26 (3)	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:59 (3)	08:06	09:00
	16:09	17:19	16 08:42 (3)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	11 09:10 (3)	16:08	15:35
16	08:55	07:53	08:24 (3)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:57 (3)	08:08	09:01
	16:11	17:22	18 08:42 (3)	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	15 09:12 (3)	16:06	15:35
17	08:53	07:51	08:24 (3)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:56 (3)	08:10	09:02
	16:13	17:24	20 08:44 (3)	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	17 09:13 (3)	16:04	15:35
18	08:52	07:48	08:23 (3)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:54 (3)	08:13	09:03
	16:15	17:27	21 08:44 (3)	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	20 09:14 (3)	16:02	15:35
19	08:50	07:46	08:22 (3)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:54 (3)	08:15	09:03
	16:17	17:29	22 08:44 (3)	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	21 09:15 (3)	16:01	15:36
20	08:49	07:43	08:23 (3)	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:53 (3)	08:17	09:04
	16:19	17:31	22 08:45 (3)	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	22 09:15 (3)	15:59	15:36
21	08:47	07:41	08:22 (3)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:52 (3)	08:19	09:05
	16:21	17:34	22 08:44 (3)	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	22 09:14 (3)	15:57	15:36
22	08:46	07:38	08:22 (3)	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:53 (3)	08:21	09:05
	16:23	17:36	21 08:43 (3)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	22 09:15 (3)	15:56	15:37
23	08:44	07:36	08:23 (3)	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:52 (3)	08:23	09:06
	16:26	17:38	21 08:44 (3)	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	22 09:14 (3)	15:54	15:37
24	08:42	07:33	08:24 (3)	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:53 (3)	08:26	09:06
	16:28	17:41	18 08:42 (3)	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	21 09:14 (3)	15:53	15:38
25	08:41	07:30	08:24 (3)	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	07:53 (3)	08:28	09:07
	16:30	17:43	17 08:41 (3)	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	20 08:13 (3)	15:51	15:38
26	08:39	07:28	08:25 (3)	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	07:55 (3)	08:30	09:07
	16:32	17:45	14 08:39 (3)	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	17 08:12 (3)	15:50	15:39
27	08:37	07:25	08:29 (3)	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	07:55 (3)	08:32	09:07
	16:35	17:48	8 08:37 (3)	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	16 08:11 (3)	15:48	15:40
28	08:35	07:22		06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	07:58 (3)	08:34	09:07
	16:37	17:50		18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	11 08:09 (3)	15:47	15:41
29	08:33			07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:00 (3)	08:36	09:07
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	5 08:05 (3)	15:46	15:42
30	08:31			07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:37	09:07
	16:42			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43		15:45	15:43
31	08:29			06:57		04:34		05:13	06:19		07:32			09:07
	16:44			19:59		22:07		21:44	20:26		16:41			15:44
Potential sun hours	227	262		365	429	515	539	538	474	386	321		241	207
Total, worst case			259									262		
Sun reduction			0.22									0.31		
Oper. time red.			0.93									0.93		
Wind dir. red.			0.62									0.62		
Total reduction			0.13									0.18		
Total, real			33									46		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FM - Upmali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:55	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:49	05:29	04:31	04:28	05:20	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:47	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:45	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:48	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:07	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:23	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:21	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:03	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FN - Urgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April	May	June
1	09:07		10:16 (7)	08:27			07:20		08:08 (10)	06:54	05:34	04:33
	15:45	95	14:15 (3)	16:46			17:52	28	08:36 (10)	20:01	21:08	22:09
2	09:06		10:17 (7)	08:25			07:17		08:07 (10)	06:51	05:31	04:32
	15:47	93	14:16 (3)	16:48			17:54	29	08:36 (10)	20:03	21:10	22:10
3	09:06		10:17 (7)	08:23			07:14		08:07 (10)	06:48	05:29	04:30
	15:48	92	14:16 (3)	16:51			17:57	28	08:35 (10)	20:06	21:12	22:12
4	09:06		10:17 (7)	08:21			07:12		08:08 (10)	06:45	05:26	04:29
	15:50	88	14:16 (3)	16:53			17:59	27	08:35 (10)	20:08	21:14	22:13
5	09:05		10:19 (7)	08:19			07:09		08:09 (10)	06:43	05:24	04:28
	15:51	84	14:17 (3)	16:55			18:01	25	08:34 (10)	20:10	21:16	22:15
6	09:04		10:19 (7)	08:17			07:06		08:09 (10)	06:40	05:22	04:27
	15:53	79	14:18 (3)	16:58			18:03	24	08:33 (10)	20:12	21:19	22:16
7	09:04		10:20 (7)	08:14			07:03		08:10 (10)	06:37	05:19	04:26
	15:54	73	14:18 (3)	17:00			18:06	21	08:31 (10)	20:14	21:21	22:17
8	09:03		10:19 (7)	08:12			07:01		08:11 (10)	06:34	05:17	04:26
	15:56	72	14:17 (3)	17:03			18:08	18	08:29 (10)	20:17	21:23	22:18
9	09:02		10:20 (7)	08:10			06:58		08:14 (10)	06:32	05:15	04:25
	15:57	69	14:17 (3)	17:05			18:10	13	08:27 (10)	20:19	21:25	22:19
10	09:01		10:21 (7)	08:07			06:55		08:18 (10)	06:29	05:13	04:24
	15:59	66	14:18 (3)	17:07			18:12	4	08:22 (10)	20:21	21:27	22:20
11	09:00		10:22 (7)	08:05			06:52			06:26	05:10	04:23
	16:01	62	14:18 (3)	17:10			18:15			20:23	21:29	22:21
12	08:59		10:22 (7)	08:03			06:50			06:23	05:08	04:23
	16:03	58	14:17 (3)	17:12			18:17			20:25	21:31	22:22
13	08:58		10:23 (7)	08:00			06:47			06:21	05:06	04:22
	16:05	54	14:18 (3)	17:15			18:19			20:28	21:34	22:23
14	08:57		10:23 (7)	07:58			06:44			06:18	05:04	04:22
	16:07	46	14:17 (3)	17:17			18:21			20:30	21:36	22:24
15	08:56		10:25 (7)	07:56			06:41			06:15	05:02	04:22
	16:09	36	14:17 (3)	17:19			18:24			20:32	21:38	22:25
16	08:55		10:26 (7)	07:53			06:39			06:13	05:00	04:21
	16:11	32	14:16 (3)	17:22			18:26			20:34	21:40	22:25
17	08:53		10:27 (7)	07:51			06:36			06:10	04:58	04:21
	16:13	28	14:14 (3)	17:24			18:28			20:37	21:42	22:26
18	08:52		10:29 (7)	07:48			06:33			06:07	04:56	04:21
	16:15	20	14:13 (3)	17:26			18:30			20:39	21:44	22:27
19	08:50		10:31 (7)	07:46			06:30			06:05	04:54	04:21
	16:17	10	10:41 (7)	17:29			18:33			20:41	21:46	22:27
20	08:49		10:34 (7)	07:43		08:19 (10)	06:27			06:02	04:52	04:21
	16:19	4	10:38 (7)	17:31	10	08:29 (10)	18:35			20:43	21:48	22:27
21	08:47			07:41		08:15 (10)	06:25			05:59	04:50	04:21
	16:21			17:33	16	08:31 (10)	18:37			20:45	21:50	22:28
22	08:46			07:38		08:13 (10)	06:22			05:57	04:48	04:21
	16:23			17:36	20	08:33 (10)	18:39			20:48	21:52	22:28
23	08:44			07:35		08:11 (10)	06:19			05:54	04:47	04:21
	16:25			17:38	23	08:34 (10)	18:41			20:50	21:53	22:28
24	08:42			07:33		08:11 (10)	06:16			05:51	04:45	04:22
	16:28			17:40	24	08:35 (10)	18:44			20:52	21:55	22:28
25	08:41			07:30		08:10 (10)	06:13			05:49	04:43	04:22
	16:30			17:43	26	08:36 (10)	18:46			20:54	21:57	22:28
26	08:39			07:28		08:09 (10)	06:11			05:46	04:41	04:23
	16:32			17:45	27	08:36 (10)	18:48			20:56	21:59	22:28
27	08:37			07:25		08:08 (10)	06:08			05:44	04:40	04:23
	16:34			17:47	28	08:36 (10)	18:50			20:59	22:01	22:28
28	08:35			07:22		08:08 (10)	06:05			05:41	04:38	04:24
	16:37			17:50	29	08:37 (10)	18:52			21:01	22:02	22:27
29	08:33						07:02			05:39	04:37	04:24
	16:39						19:55			21:03	22:04	22:27
30	08:31						06:59			05:36	04:36	04:25
	16:41						19:57			21:05	22:06	22:27
31	08:29						06:57				04:34	
	16:44						19:59				22:07	
Potential sun hours	227			262			365			429	515	539
Total, worst case		1161			203			217				
Sun reduction		0.13			0.22			0.37				
Oper. time red.		0.93			0.93			0.93				
Wind dir. red.		0.63			0.61			0.61				
Total reduction		0.08			0.12			0.21				
Total, real		89			25			45				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FN - Urgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October		November			December		
1	04:26	05:15	06:21	07:25		07:34			08:39		10:04 (7)
	22:26	21:41	20:24	19:00		16:38			15:43	62	14:00 (3)
2	04:27	05:17	06:23	07:27		07:36			08:41		10:04 (7)
	22:26	21:39	20:21	18:57		16:36			15:42	65	14:01 (3)
3	04:28	05:19	06:25	07:29		07:38			08:43		10:04 (7)
	22:25	21:37	20:18	18:54		16:33			15:41	69	14:02 (3)
4	04:29	05:21	06:27	07:31		08:52 (10)	07:41		08:44		10:04 (7)
	22:24	21:35	20:15	18:51	11	09:03 (10)	16:31		15:40	71	14:02 (3)
5	04:30	05:23	06:29	07:33		08:49 (10)	07:43		08:46		10:05 (7)
	22:24	21:33	20:12	18:48	16	09:05 (10)	16:29		15:39	73	14:03 (3)
6	04:31	05:26	06:32	07:35		08:47 (10)	07:45		08:48		10:04 (7)
	22:23	21:30	20:10	18:46	20	09:07 (10)	16:27		15:39	78	14:03 (3)
7	04:32	05:28	06:34	07:38		08:45 (10)	07:48		08:49		10:05 (7)
	22:22	21:28	20:07	18:43	23	09:08 (10)	16:24		15:38	83	14:04 (3)
8	04:33	05:30	06:36	07:40		08:44 (10)	07:50		08:51		10:05 (7)
	22:21	21:26	20:04	18:40	25	09:09 (10)	16:22		15:37	88	14:04 (3)
9	04:35	05:32	06:38	07:42		08:43 (10)	07:52		08:52		10:06 (7)
	22:20	21:23	20:01	18:37	26	09:09 (10)	16:20		15:37	91	14:05 (3)
10	04:36	05:34	06:40	07:44		08:42 (10)	07:54		08:54		10:06 (7)
	22:19	21:21	19:59	18:35	27	09:09 (10)	16:18		15:36	92	14:05 (3)
11	04:37	05:36	06:42	07:46		08:42 (10)	07:57		08:55		10:07 (7)
	22:18	21:18	19:56	18:32	28	09:10 (10)	16:16		15:36	94	14:06 (3)
12	04:39	05:38	06:44	07:48		08:41 (10)	07:59		08:56		10:07 (7)
	22:17	21:16	19:53	18:29	29	09:10 (10)	16:14		15:36	97	14:06 (3)
13	04:40	05:40	06:46	07:51		08:41 (10)	08:01		08:58		10:07 (7)
	22:15	21:13	19:50	18:27	28	09:09 (10)	16:12		15:35	97	14:07 (3)
14	04:42	05:43	06:48	07:53		08:41 (10)	08:04		08:59		10:08 (7)
	22:14	21:11	19:47	18:24	29	09:10 (10)	16:10		15:35	97	14:08 (3)
15	04:43	05:45	06:51	07:55		08:41 (10)	08:06		09:00		10:09 (7)
	22:13	21:08	19:44	18:21	28	09:09 (10)	16:08		15:35	97	14:08 (3)
16	04:45	05:47	06:53	07:57		08:41 (10)	08:08		09:01		10:09 (7)
	22:11	21:06	19:42	18:19	27	09:08 (10)	16:06		15:35	98	14:08 (3)
17	04:47	05:49	06:55	08:00		08:42 (10)	08:10		09:02		10:10 (7)
	22:10	21:03	19:39	18:16	26	09:08 (10)	16:04		15:35	98	14:09 (3)
18	04:48	05:51	06:57	08:02		08:42 (10)	08:13		09:03		10:10 (7)
	22:08	21:01	19:36	18:13	24	09:06 (10)	16:02		15:35	99	14:10 (3)
19	04:50	05:53	06:59	08:04		08:43 (10)	08:15		09:03		10:10 (7)
	22:06	20:58	19:33	18:11	21	09:04 (10)	16:00		15:35	98	14:09 (3)
20	04:52	05:55	07:01	08:06		08:45 (10)	08:17		09:04		10:11 (7)
	22:05	20:56	19:30	18:08	18	09:03 (10)	15:59		15:36	98	14:10 (3)
21	04:54	05:57	07:03	08:09		08:46 (10)	08:19		09:05		10:12 (7)
	22:03	20:53	19:28	18:05	15	09:01 (10)	15:57		15:36	98	14:11 (3)
22	04:56	06:00	07:05	08:11		08:50 (10)	08:21	10:10 (7)	09:05		10:12 (7)
	22:01	20:50	19:25	18:03	8	08:58 (10)	15:55	4 10:14 (7)	15:36	98	14:11 (3)
23	04:57	06:02	07:07	08:13			08:23	10:07 (7)	09:06		10:13 (7)
	21:59	20:48	19:22	18:00			15:54	10 10:17 (7)	15:37	98	14:12 (3)
24	04:59	06:04	07:10	08:15			08:25	10:06 (7)	09:06		10:13 (7)
	21:58	20:45	19:19	17:58			15:52	20 13:50 (3)	15:38	98	14:12 (3)
25	05:01	06:06	07:12	07:18			08:27	10:05 (7)	09:07		10:13 (7)
	21:56	20:42	19:16	16:55			15:51	28 13:52 (3)	15:38	97	14:12 (3)
26	05:03	06:08	07:14	07:20			08:29	10:05 (7)	09:07		10:13 (7)
	21:54	20:40	19:14	16:53			15:49	32 13:55 (3)	15:39	99	14:13 (3)
27	05:05	06:10	07:16	07:22			08:31	10:04 (7)	09:07		10:14 (7)
	21:52	20:37	19:11	16:50			15:48	36 13:56 (3)	15:40	97	14:13 (3)
28	05:07	06:12	07:18	07:25			08:33	10:04 (7)	09:07		10:14 (7)
	21:50	20:34	19:08	16:48			15:47	45 13:57 (3)	15:41	97	14:14 (3)
29	05:09	06:15	07:20	07:27			08:35	10:03 (7)	09:07		10:15 (7)
	21:48	20:32	19:05	16:45			15:46	54 13:58 (3)	15:42	97	14:14 (3)
30	05:11	06:17	07:22	07:29			08:37	10:04 (7)	09:07		10:16 (7)
	21:46	20:29	19:02	16:43			15:44	58 13:59 (3)	15:43	96	14:15 (3)
31	05:13	06:19		07:31					09:07		10:16 (7)
	21:44	20:26		16:40					15:44	95	14:15 (3)
Potential sun hours	538	474	386	321			241		207		
Total, worst case					429			287		2815	
Sun reduction					0.31			0.15		0.13	
Oper. time red.					0.93			0.93		0.93	
Wind dir. red.					0.61			0.62		0.64	
Total reduction					0.17			0.09		0.08	
Total, real					74			25		212	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FO - Uzinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:22	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:18	07:09	06:43	05:24	04:29	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:39
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:35	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FP - Vairogi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:49	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:55	17:01	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:37	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:41	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:24	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:51	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:33	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:40
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FQ - Vaverites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May	June
1	09:07		11:06 (11)	08:27		12:39 (10)	07:20			06:54		08:11 (13)	05:34	04:33
	15:45	88	13:43 (7)	16:46	40	13:19 (10)	17:52			20:01	16	08:27 (13)	21:07	22:09
2	09:06		11:07 (11)	08:25		12:40 (10)	07:17			06:51		08:14 (13)	05:31	04:32
	15:47	86	13:43 (7)	16:48	37	13:17 (10)	17:54			20:03	9	08:23 (13)	21:10	22:10
3	09:06		11:07 (11)	08:23		12:42 (10)	07:14			06:48			05:29	04:30
	15:48	80	13:12 (10)	16:51	34	13:16 (10)	17:56			20:06			21:12	22:12
4	09:05		11:07 (11)	08:21		12:43 (10)	07:11			06:45			05:26	04:29
	15:49	81	13:13 (10)	16:53	31	13:14 (10)	17:59			20:08			21:14	22:13
5	09:05		11:08 (11)	08:19		08:53 (12)	07:09			06:43			05:24	04:28
	15:51	80	13:13 (10)	16:55	36	13:13 (10)	18:01			20:10			21:16	22:15
6	09:04		11:09 (11)	08:16		08:50 (12)	07:06			06:40			05:22	04:27
	15:52	82	13:15 (10)	16:58	38	13:11 (10)	18:03			20:12			21:18	22:16
7	09:04		11:10 (11)	08:14		08:48 (12)	07:03			06:37			05:19	04:26
	15:54	81	13:15 (10)	17:00	35	13:08 (10)	18:06			20:14			21:21	22:17
8	09:03		11:10 (11)	08:12		08:47 (12)	07:01			06:34			05:17	04:25
	15:56	80	13:15 (10)	17:02	25	13:02 (10)	18:08			20:17			21:23	22:18
9	09:02		11:11 (11)	08:10		08:46 (12)	06:58			06:32			05:15	04:25
	15:57	81	13:16 (10)	17:05	22	09:08 (12)	18:10			20:19			21:25	22:19
10	09:01		11:11 (11)	08:07		08:46 (12)	06:55			06:29			05:12	04:24
	15:59	80	13:16 (10)	17:07	24	09:10 (12)	18:12			20:21			21:27	22:20
11	09:00		11:12 (11)	08:05		08:45 (12)	06:52			06:26			05:10	04:23
	16:01	80	13:17 (10)	17:10	25	09:10 (12)	18:15			20:23			21:29	22:21
12	08:59		11:13 (11)	08:03		08:44 (12)	06:50			06:23			05:08	04:23
	16:03	79	13:17 (10)	17:12	26	09:10 (12)	18:17			20:25			21:31	22:22
13	08:58		11:14 (11)	08:00		08:44 (12)	06:47			06:21			05:06	04:22
	16:05	78	13:18 (10)	17:14	27	09:11 (12)	18:19			20:28			21:33	22:23
14	08:57		11:14 (11)	07:58		08:44 (12)	06:44		07:18 (13)	06:18			05:04	04:22
	16:06	78	13:18 (10)	17:17	27	09:11 (12)	18:21	12	07:30 (13)	20:30			21:36	22:24
15	08:56		11:16 (11)	07:55		08:44 (12)	06:41		07:16 (13)	06:15			05:02	04:21
	16:08	77	13:19 (10)	17:19	27	09:11 (12)	18:24	18	07:34 (13)	20:32			21:38	22:25
16	08:54		11:16 (11)	07:53		08:44 (12)	06:38		07:13 (13)	06:12			05:00	04:21
	16:10	76	13:19 (10)	17:22	27	09:11 (12)	18:26	22	07:35 (13)	20:34			21:40	22:25
17	08:53		11:17 (11)	07:51		08:44 (12)	06:36		07:11 (13)	06:10			04:58	04:21
	16:12	75	13:19 (10)	17:24	26	09:10 (12)	18:28	25	07:36 (13)	20:36			21:42	22:26
18	08:52		11:19 (11)	07:48		08:45 (12)	06:33		07:10 (13)	06:07			04:56	04:21
	16:15	73	13:20 (10)	17:26	25	09:10 (12)	18:30	27	07:37 (13)	20:39			21:44	22:26
19	08:50		11:21 (11)	07:46		08:45 (12)	06:30		07:08 (13)	06:04			04:54	04:21
	16:17	69	13:20 (10)	17:29	24	09:09 (12)	18:32	29	07:37 (13)	20:41			21:46	22:27
20	08:49		11:22 (11)	07:43		08:46 (12)	06:27		07:07 (13)	06:02			04:52	04:21
	16:19	67	13:21 (10)	17:31	22	09:08 (12)	18:35	30	07:37 (13)	20:43			21:48	22:27
21	08:47		11:24 (11)	07:40		08:47 (12)	06:25		07:07 (13)	05:59			04:50	04:21
	16:21	63	13:21 (10)	17:33	20	09:07 (12)	18:37	31	07:38 (13)	20:45			21:50	22:28
22	08:46		11:28 (11)	07:38		08:49 (12)	06:22		07:06 (13)	05:57			04:48	04:21
	16:23	55	13:21 (10)	17:36	16	09:05 (12)	18:39	32	07:38 (13)	20:48			21:51	22:28
23	08:44		12:32 (10)	07:35		08:51 (12)	06:19		07:06 (13)	05:54			04:46	04:21
	16:25	49	13:21 (10)	17:38	11	09:02 (12)	18:41	32	07:38 (13)	20:50			21:53	22:28
24	08:42		12:33 (10)	07:33			06:16		07:05 (13)	05:51			04:45	04:22
	16:28	48	13:21 (10)	17:40			18:44	32	07:37 (13)	20:52			21:55	22:28
25	08:41		12:33 (10)	07:30			06:13		07:05 (13)	05:49			04:43	04:22
	16:30	48	13:21 (10)	17:43			18:46	32	07:37 (13)	20:54			21:57	22:28
26	08:39		12:34 (10)	07:27			06:11		07:05 (13)	05:46			04:41	04:22
	16:32	47	13:21 (10)	17:45			18:48	31	07:36 (13)	20:56			21:59	22:28
27	08:37		12:35 (10)	07:25			06:08		07:06 (13)	05:44			04:40	04:23
	16:34	46	13:21 (10)	17:47			18:50	30	07:36 (13)	20:59			22:01	22:28
28	08:35		12:36 (10)	07:22			06:05		07:06 (13)	05:41			04:38	04:24
	16:37	45	13:21 (10)	17:50			18:52	28	07:34 (13)	21:01			22:02	22:27
29	08:33		12:36 (10)				07:02		08:06 (13)	05:39			04:37	04:24
	16:39	44	13:20 (10)				19:55	27	08:33 (13)	21:03			22:04	22:27
30	08:31		12:37 (10)				06:59		08:07 (13)	05:36			04:35	04:25
	16:41	42	13:19 (10)				19:57	24	08:31 (13)	21:05			22:06	22:27
31	08:29		12:38 (10)				06:57		08:09 (13)				04:34	
	16:44	41	13:19 (10)				19:59	21	08:30 (13)				22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		2099			625			483			25			
Sun reduction		0.13			0.22			0.37			0.46			
Oper. time red.		0.93			0.93			0.93			0.93			
Wind dir. red.		0.65			0.64			0.62			0.62			
Total reduction		0.08			0.13			0.21			0.27			
Total, real		166			82			102			7			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FQ - Vaverites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September			October			November			December		
1	04:26	05:15	06:21			07:24			07:34		08:15 (12)	08:39		10:55 (11)
	22:26	21:41	20:23			18:59			16:38	24	08:39 (12)	15:43	80	12:59 (10)
2	04:27	05:17	06:23			07:27			07:36		08:16 (12)	08:41		10:55 (11)
	22:26	21:39	20:21			18:57			16:36	22	08:38 (12)	15:42	80	13:00 (10)
3	04:28	05:19	06:25			07:29			07:38		08:17 (12)	08:43		10:55 (11)
	22:25	21:37	20:18			18:54			16:33	27	12:33 (10)	15:41	81	13:00 (10)
4	04:29	05:21	06:27			07:31			07:41		08:18 (12)	08:44		10:55 (11)
	22:24	21:35	20:15			18:51			16:31	35	12:38 (10)	15:40	80	13:00 (10)
5	04:30	05:23	06:29			07:33			07:43		08:20 (12)	08:46		10:55 (11)
	22:24	21:33	20:12			18:48			16:29	38	12:41 (10)	15:39	80	13:00 (10)
6	04:31	05:25	06:31			07:35			07:45		08:23 (12)	08:48		10:55 (11)
	22:23	21:30	20:10			18:46			16:26	36	12:43 (10)	15:39	81	13:00 (10)
7	04:32	05:28	06:34			07:37			07:47		12:13 (10)	08:49		10:55 (11)
	22:22	21:28	20:07			18:43			16:24	32	12:45 (10)	15:38	81	13:00 (10)
8	04:33	05:30	06:36			07:40			07:50		12:11 (10)	08:51		10:56 (11)
	22:21	21:26	20:04			18:40			16:22	35	12:46 (10)	15:37	80	13:01 (10)
9	04:35	05:32	06:38			07:42			07:52		12:11 (10)	08:52		10:56 (11)
	22:20	21:23	20:01			18:37			16:20	37	12:48 (10)	15:37	80	13:01 (10)
10	04:36	05:34	06:40		08:07 (13)	07:44			07:54		12:10 (10)	08:54		10:56 (11)
	22:19	21:21	19:58	9	08:16 (13)	18:35			16:18	40	12:50 (10)	15:36	85	13:32 (7)
11	04:37	05:36	06:42		08:03 (13)	07:46			07:57		12:09 (10)	08:55		10:57 (11)
	22:18	21:18	19:56	16	08:19 (13)	18:32			16:16	41	12:50 (10)	15:36	88	13:34 (7)
12	04:39	05:38	06:44		08:01 (13)	07:48			07:59		12:09 (10)	08:56		10:57 (11)
	22:16	21:16	19:53	20	08:21 (13)	18:29			16:14	42	12:51 (10)	15:35	90	13:35 (7)
13	04:40	05:40	06:46		07:59 (13)	07:51			08:01		12:07 (10)	08:57		10:57 (11)
	22:15	21:13	19:50	23	08:22 (13)	18:26			16:12	45	12:52 (10)	15:35	90	13:36 (7)
14	04:42	05:42	06:48		07:57 (13)	07:53			08:03		12:07 (10)	08:59		10:58 (11)
	22:14	21:11	19:47	26	08:23 (13)	18:24			16:10	46	12:53 (10)	15:35	92	13:38 (7)
15	04:43	05:45	06:50		07:56 (13)	07:55			08:06		12:07 (10)	09:00		10:59 (11)
	22:12	21:08	19:44	28	08:24 (13)	18:21			16:08	46	12:53 (10)	15:35	92	13:38 (7)
16	04:45	05:47	06:53		07:55 (13)	07:57			08:08		12:07 (10)	09:01		10:59 (11)
	22:11	21:06	19:42	29	08:24 (13)	18:18			16:06	47	12:54 (10)	15:35	92	13:39 (7)
17	04:47	05:49	06:55		07:54 (13)	07:59			08:10		12:07 (10)	09:02		10:59 (11)
	22:09	21:03	19:39	30	08:24 (13)	18:16			16:04	48	12:55 (10)	15:35	94	13:40 (7)
18	04:48	05:51	06:57		07:53 (13)	08:02		09:25 (12)	08:12		12:07 (10)	09:02		11:00 (11)
	22:08	21:01	19:36	31	08:24 (13)	18:13	6	09:31 (12)	16:02	48	12:55 (10)	15:35	93	13:41 (7)
19	04:50	05:53	06:59		07:52 (13)	08:04		09:21 (12)	08:15		12:07 (10)	09:03		11:00 (11)
	22:06	20:58	19:33	32	08:24 (13)	18:10	13	09:34 (12)	16:00	49	12:56 (10)	15:35	92	13:40 (7)
20	04:52	05:55	07:01		07:52 (13)	08:06		09:19 (12)	08:17		11:03 (11)	09:04		11:00 (11)
	22:05	20:56	19:30	32	08:24 (13)	18:08	18	09:37 (12)	15:59	55	12:56 (10)	15:36	93	13:41 (7)
21	04:54	05:57	07:03		07:52 (13)	08:08		09:17 (12)	08:19		11:00 (11)	09:05		11:01 (11)
	22:03	20:53	19:27	32	08:24 (13)	18:05	21	09:38 (12)	15:57	63	12:57 (10)	15:36	93	13:42 (7)
22	04:55	06:00	07:05		07:52 (13)	08:11		09:17 (12)	08:21		10:58 (11)	09:05		11:01 (11)
	22:01	20:50	19:25	31	08:23 (13)	18:03	22	09:39 (12)	15:55	67	12:57 (10)	15:36	94	13:42 (7)
23	04:57	06:02	07:07		07:52 (13)	08:13		09:15 (12)	08:23		10:57 (11)	09:06		11:02 (11)
	21:59	20:48	19:22	30	08:22 (13)	18:00	25	09:40 (12)	15:54	70	12:57 (10)	15:37	93	13:43 (7)
24	04:59	06:04	07:10		07:52 (13)	08:15		09:14 (12)	08:25		10:56 (11)	09:06		11:03 (11)
	21:58	20:45	19:19	29	08:21 (13)	17:58	26	09:40 (12)	15:52	72	12:57 (10)	15:37	93	13:43 (7)
25	05:01	06:06	07:12		07:52 (13)	07:18		08:14 (12)	08:27		10:55 (11)	09:06		11:03 (11)
	21:56	20:42	19:16	28	08:20 (13)	16:55	27	08:41 (12)	15:51	75	12:57 (10)	15:38	92	13:43 (7)
26	05:03	06:08	07:14		07:53 (13)	07:20		08:13 (12)	08:29		10:56 (11)	09:07		11:03 (11)
	21:54	20:40	19:13	26	08:19 (13)	16:53	27	08:40 (12)	15:49	75	12:58 (10)	15:39	94	13:44 (7)
27	05:05	06:10	07:16		07:54 (13)	07:22		08:14 (12)	08:31		10:55 (11)	09:07		11:04 (11)
	21:52	20:37	19:11	23	08:17 (13)	16:50	27	08:41 (12)	15:48	77	12:58 (10)	15:40	92	13:44 (7)
28	05:07	06:12	07:18		07:56 (13)	07:24		08:13 (12)	08:33		10:54 (11)	09:07		11:04 (11)
	21:50	20:34	19:08	20	08:16 (13)	16:48	27	08:40 (12)	15:47	78	12:58 (10)	15:41	93	13:44 (7)
29	05:09	06:14	07:20		07:58 (13)	07:27		08:14 (12)	08:35		10:54 (11)	09:07		11:05 (11)
	21:48	20:32	19:05	15	08:13 (13)	16:45	26	08:40 (12)	15:45	78	12:58 (10)	15:42	91	13:45 (7)
30	05:11	06:17	07:22		08:01 (13)	07:29		08:13 (12)	08:37		10:54 (11)	09:07		11:05 (11)
	21:46	20:29	19:02	7	08:08 (13)	16:43	26	08:39 (12)	15:44	79	12:58 (10)	15:43	91	13:44 (7)
31	05:13	06:19				07:31		08:14 (12)				09:07		11:06 (11)
	21:44	20:26				16:40	25	08:39 (12)				15:44	89	13:44 (7)
Potential sun hours	539	475	386			321			241			207		
Total, worst case				517			316			1527			2739	
Sun reduction				0.43			0.31			0.15			0.13	
Oper. time red.				0.93			0.93			0.93			0.93	
Wind dir. red.				0.62			0.63			0.65			0.65	
Total reduction				0.25			0.18			0.09			0.08	
Total, real				129			57			143			210	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FR - Vavuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:29	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:38
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FS - Vecapini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:49	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:23	22:17	21:16	19:53	18:29	16:14	15:35
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:14	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:59
	16:07	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:08	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FT - Vecjennas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:41	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FU - Veckastani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May			June		
1	09:07			08:27		09:26 (2)	07:20			06:54		07:55 (5)	05:34		06:24 (4)	04:33		06:13 (3)
	15:46			16:46	32	09:58 (2)	17:52			20:01	23	08:18 (5)	21:08	28	06:52 (4)	22:09	50	07:03 (3)
2	09:06			08:25		09:25 (2)	07:17			06:51		07:55 (5)	05:31		06:24 (4)	04:32		06:14 (3)
	15:47			16:49	33	09:58 (2)	17:54			20:04	21	08:16 (5)	21:10	28	06:52 (4)	22:10	49	07:03 (3)
3	09:06			08:23		09:25 (2)	07:14			06:48		07:56 (5)	05:29		05:58 (1)	04:31		06:14 (3)
	15:48			16:51	34	09:59 (2)	17:57			20:06	18	08:14 (5)	21:12	31	06:51 (4)	22:12	48	07:02 (3)
4	09:05			08:21		09:25 (2)	07:12			06:46		07:59 (5)	05:27		05:56 (1)	04:30		06:14 (3)
	15:50			16:53	35	10:00 (2)	17:59			20:08	13	08:12 (5)	21:14	34	06:51 (4)	22:13	48	07:02 (3)
5	09:05			08:19		09:24 (2)	07:09			06:43			05:24		05:54 (1)	04:29		06:14 (3)
	15:51			16:56	36	10:00 (2)	18:01			20:10			21:16	41	06:53 (3)	22:15	48	07:02 (3)
6	09:04			08:17		09:24 (2)	07:06			06:40			05:22		05:52 (1)	04:28		06:14 (3)
	15:53			16:58	37	10:01 (2)	18:04			20:12			21:19	46	06:54 (3)	22:16	48	07:02 (3)
7	09:04			08:14		09:23 (2)	07:04			06:37			05:20		05:50 (1)	04:27		06:15 (3)
	15:54			17:00	38	10:01 (2)	18:06			20:15			21:21	51	06:56 (3)	22:17	48	07:03 (3)
8	09:03			08:12		09:23 (2)	07:01			06:35			05:17		05:48 (1)	04:26		06:15 (3)
	15:56			17:03	39	10:02 (2)	18:08			20:17			21:23	56	06:57 (3)	22:18	47	07:02 (3)
9	09:02			08:10		09:23 (2)	06:58			06:32			05:15		05:47 (1)	04:25		06:15 (3)
	15:58			17:05	38	10:01 (2)	18:10			20:19			21:25	58	06:57 (3)	22:19	47	07:02 (3)
10	09:01			08:08		09:23 (2)	06:55			06:29			05:13		05:47 (1)	04:24		06:16 (3)
	15:59			17:08	39	10:02 (2)	18:13			20:21			21:27	60	06:58 (3)	22:20	46	07:02 (3)
11	09:00			08:05		09:23 (2)	06:53			06:26			05:11		05:47 (1)	04:24		06:16 (3)
	16:01			17:10	38	10:01 (2)	18:15			20:23			21:29	61	06:59 (3)	22:21	46	07:02 (3)
12	08:59			08:03		09:24 (2)	06:50			06:24			05:08		05:47 (1)	04:23		06:17 (3)
	16:03			17:12	38	10:02 (2)	18:17			20:26			21:31	62	06:59 (3)	22:22	45	07:02 (3)
13	08:58			08:00		09:24 (2)	06:47			06:21			05:06		05:47 (1)	04:23		06:17 (3)
	16:05			17:15	37	10:01 (2)	18:19			20:28			21:34	62	07:00 (3)	22:23	46	07:03 (3)
14	08:57			07:58		09:24 (2)	06:44			06:18			05:04		05:48 (1)	04:22		06:17 (3)
	16:07			17:17	36	10:00 (2)	18:22			20:30			21:36	62	07:00 (3)	22:24	45	07:02 (3)
15	08:56			07:56		09:25 (2)	06:41			06:15			05:02		05:48 (1)	04:22		06:17 (3)
	16:09			17:19	35	10:00 (2)	18:24			20:32			21:38	61	07:00 (3)	22:25	45	07:02 (3)
16	08:55			07:53		09:25 (2)	06:39			06:13			05:00		05:49 (1)	04:22		06:18 (3)
	16:11			17:22	34	09:59 (2)	18:26			20:34			21:40	59	07:00 (3)	22:25	45	07:03 (3)
17	08:53			07:51		09:26 (2)	06:36			06:10			04:58		05:51 (1)	04:21		06:18 (3)
	16:13			17:24	33	09:59 (2)	18:28			20:37			21:42	56	07:00 (3)	22:26	45	07:03 (3)
18	08:52			07:48		09:27 (2)	06:33		07:06 (5)	06:07			04:56		05:55 (1)	04:21		06:18 (3)
	16:15			17:27	31	09:58 (2)	18:30	9	07:15 (5)	20:39			21:44	50	07:01 (3)	22:26	45	07:03 (3)
19	08:50			07:46		09:28 (2)	06:30		07:02 (5)	06:05			04:54		06:12 (3)	04:21		06:19 (3)
	16:17			17:29	28	09:56 (2)	18:33	16	07:18 (5)	20:41			21:46	49	07:01 (3)	22:27	44	07:03 (3)
20	08:49			07:43		09:30 (2)	06:28		07:01 (5)	06:02		06:36 (4)	04:52		06:11 (3)	04:21		06:19 (3)
	16:19			17:31	25	09:55 (2)	18:35	19	07:20 (5)	20:43	7	06:43 (4)	21:48	50	07:01 (3)	22:27	44	07:03 (3)
21	08:47			07:41		09:31 (2)	06:25		06:59 (5)	05:59		06:33 (4)	04:50		06:12 (3)	04:21		06:19 (3)
	16:21			17:34	22	09:53 (2)	18:37	22	07:21 (5)	20:45	14	06:47 (4)	21:50	50	07:02 (3)	22:28	44	07:03 (3)
22	08:46			07:38		09:34 (2)	06:22		06:57 (5)	05:57		06:30 (4)	04:49		06:11 (3)	04:21		06:19 (3)
	16:23			17:36	15	09:49 (2)	18:39	25	07:22 (5)	20:48	18	06:48 (4)	21:52	50	07:01 (3)	22:28	44	07:03 (3)
23	08:44			07:35		09:38 (2)	06:19		06:56 (5)	05:54		06:29 (4)	04:47		06:12 (3)	04:22		06:20 (3)
	16:26			17:38	6	09:44 (2)	18:42	26	07:22 (5)	20:50	21	06:50 (4)	21:53	50	07:02 (3)	22:28	44	07:04 (3)
24	08:42			07:33			06:16		06:55 (5)	05:52		06:27 (4)	04:45		06:11 (3)	04:22		06:19 (3)
	16:28			17:41			18:44	27	07:22 (5)	20:52	23	06:50 (4)	21:55	51	07:02 (3)	22:28	45	07:04 (3)
25	08:41		09:37 (2)	07:30			06:14		06:54 (5)	05:49		06:26 (4)	04:43		06:12 (3)	04:22		06:20 (3)
	16:30	6	09:43 (2)	17:43			18:46	28	07:22 (5)	20:54	25	06:51 (4)	21:57	50	07:02 (3)	22:28	45	07:05 (3)
26	08:39		09:33 (2)	07:28			06:11		06:54 (5)	05:46		06:26 (4)	04:42		06:12 (3)	04:23		06:20 (3)
	16:32	14	09:47 (2)	17:45			18:48	29	07:23 (5)	20:57	26	06:52 (4)	21:59	50	07:02 (3)	22:28	45	07:05 (3)
27	08:37		09:31 (2)	07:25			06:08		06:54 (5)	05:44		06:25 (4)	04:40		06:12 (3)	04:23		06:20 (3)
	16:35	19	09:50 (2)	17:48			18:50	28	07:22 (5)	20:59	27	06:52 (4)	22:01	50	07:02 (3)	22:28	45	07:05 (3)
28	08:35		09:30 (2)	07:22			06:05		06:53 (5)	05:41		06:24 (4)	04:39		06:12 (3)	04:24		06:20 (3)
	16:37	22	09:52 (2)	17:50			18:53	29	07:22 (5)	21:01	29	06:53 (4)	22:02	50	07:02 (3)	22:27	45	07:05 (3)
29	08:33		09:28 (2)				07:02		07:53 (5)	05:39		06:24 (4)	04:37		06:12 (3)	04:25		06:20 (3)
	16:39	25	09:53 (2)				19:55	28	08:21 (5)	21:03	29	06:53 (4)	22:04	50	07:02 (3)	22:27	46	07:06 (3)
30	08:31		09:27 (2)				07:00		07:54 (5)	05:36		06:23 (4)	04:36		06:13 (3)	04:25		06:21 (3)
	16:42	28	09:55 (2)				19:57	27	08:21 (5)	21:05	29	06:52 (4)	22:06	49	07:02 (3)	22:27	45	07:06 (3)
31	08:29		09:27 (2)				06:57		07:54 (5)				04:34		06:13 (3)			
	16:44	29	09:56 (2)				19:59	26	08:20 (5)				22:07	50	07:03 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		143			739			339			323			1555			1377	
Sun reduction		0.13			0.22			0.37			0.46			0.58			0.53	
Oper. time red.		0.93			0.93			0.93			0.93			0.93			0.93	
Wind dir. red.		0.63			0.63			0.63			0.64			0.63			0.63	
Total reduction		0.08			0.13			0.22			0.27			0.34			0.31	
Total, real		11			96			73			88			528			428	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FU - Veckastani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July			August			September			October			November			December	
1	04:26		06:20 (3)	05:15		05:57 (1)	06:21			07:25			07:34		08:53 (2)	08:39	
	22:26	46	07:06 (3)	21:41	61	07:09 (3)	20:24			19:00			16:38	39	09:32 (2)	15:44	
2	04:27		06:20 (3)	05:17		05:57 (1)	06:23			07:27			07:36		08:52 (2)	08:41	
	22:26	47	07:07 (3)	21:39	61	07:09 (3)	20:21			18:57			16:36	39	09:31 (2)	15:42	
3	04:28		06:21 (3)	05:19		05:57 (1)	06:25			07:29			07:38		08:53 (2)	08:43	
	22:25	46	07:07 (3)	21:37	60	07:08 (3)	20:18			18:54			16:34	38	09:31 (2)	15:42	
4	04:29		06:21 (3)	05:22		05:56 (1)	06:27			07:31			07:41		08:53 (2)	08:44	
	22:24	46	07:07 (3)	21:35	58	07:06 (3)	20:15			18:51			16:31	37	09:30 (2)	15:41	
5	04:30		06:21 (3)	05:24		05:58 (1)	06:30			07:33			07:43		08:53 (2)	08:46	
	22:24	47	07:08 (3)	21:33	55	07:06 (3)	20:13			18:49			16:29	38	09:31 (2)	15:40	
6	04:31		06:21 (3)	05:26		06:00 (1)	06:32			07:35			07:45		08:53 (2)	08:48	
	22:23	47	07:08 (3)	21:30	49	07:04 (3)	20:10			18:46			16:27	37	09:30 (2)	15:39	
7	04:32		06:21 (3)	05:28		06:02 (1)	06:34			07:38			07:48		08:54 (2)	08:49	
	22:22	47	07:08 (3)	21:28	45	07:03 (3)	20:07			18:43			16:25	36	09:30 (2)	15:38	
8	04:34		06:21 (3)	05:30		06:04 (1)	06:36		07:54 (5)	07:40			07:50		08:55 (2)	08:51	
	22:21	48	07:09 (3)	21:26	39	07:02 (3)	20:04	12	08:06 (5)	18:40			16:22	35	09:30 (2)	15:38	
9	04:35		06:20 (3)	05:32		06:06 (1)	06:38		07:51 (5)	07:42			07:52		08:56 (2)	08:52	
	22:20	49	07:09 (3)	21:23	33	07:00 (4)	20:01	17	08:08 (5)	18:38			16:20	32	09:28 (2)	15:37	
10	04:36		06:21 (3)	05:34		06:08 (1)	06:40		07:49 (5)	07:44			07:54		08:57 (2)	08:54	
	22:19	49	07:10 (3)	21:21	30	07:01 (4)	19:59	20	08:09 (5)	18:35			16:18	31	09:28 (2)	15:37	
11	04:38		06:21 (3)	05:36		06:32 (4)	06:42		07:47 (5)	07:46			07:57		08:57 (2)	08:55	
	22:18	49	07:10 (3)	21:18	29	07:01 (4)	19:56	23	08:10 (5)	18:32			16:16	30	09:27 (2)	15:36	
12	04:39		06:21 (3)	05:38		06:32 (4)	06:44		07:46 (5)	07:49			07:59		08:59 (2)	08:56	
	22:16	49	07:10 (3)	21:16	29	07:01 (4)	19:53	25	08:11 (5)	18:29			16:14	27	09:26 (2)	15:36	
13	04:41		06:20 (3)	05:41		06:32 (4)	06:47		07:44 (5)	07:51			08:01		09:00 (2)	08:58	
	22:15	50	07:10 (3)	21:14	29	07:01 (4)	19:50	27	08:11 (5)	18:27			16:12	25	09:25 (2)	15:36	
14	04:42		06:21 (3)	05:43		06:32 (4)	06:49		07:44 (5)	07:53			08:04		09:02 (2)	08:59	
	22:14	50	07:11 (3)	21:11	28	07:00 (4)	19:47	27	08:11 (5)	18:24			16:10	22	09:24 (2)	15:35	
15	04:44		06:21 (3)	05:45		06:32 (4)	06:51		07:43 (5)	07:55			08:06		09:04 (2)	09:00	
	22:12	50	07:11 (3)	21:09	28	07:00 (4)	19:45	28	08:11 (5)	18:21			16:08	19	09:23 (2)	15:35	
16	04:45		06:21 (3)	05:47		06:32 (4)	06:53		07:42 (5)	07:57			08:08		09:06 (2)	09:01	
	22:11	50	07:11 (3)	21:06	27	06:59 (4)	19:42	29	08:11 (5)	18:19			16:06	14	09:20 (2)	15:35	
17	04:47		06:21 (3)	05:49		06:32 (4)	06:55		07:43 (5)	08:00			08:10		09:11 (2)	09:02	
	22:10	50	07:11 (3)	21:03	27	06:59 (4)	19:39	28	08:11 (5)	18:16			16:04	6	09:17 (2)	15:35	
18	04:49		06:21 (3)	05:51		06:33 (4)	06:57		07:42 (5)	08:02			08:13			09:03	
	22:08	51	07:12 (3)	21:01	25	06:58 (4)	19:36	29	08:11 (5)	18:13			16:02			15:35	
19	04:50		06:21 (3)	05:53		06:34 (4)	06:59		07:42 (5)	08:04		10:07 (2)	08:15			09:03	
	22:06	50	07:11 (3)	20:58	23	06:57 (4)	19:33	28	08:10 (5)	18:11	10	10:17 (2)	16:01			15:36	
20	04:52		06:22 (3)	05:56		06:35 (4)	07:01		07:42 (5)	08:06		10:04 (2)	08:17			09:04	
	22:05	50	07:12 (3)	20:56	20	06:55 (4)	19:30	27	08:09 (5)	18:08	18	10:22 (2)	15:59			15:36	
21	04:54		06:22 (3)	05:58		06:36 (4)	07:03		07:43 (5)	08:09		10:01 (2)	08:19			09:05	
	22:03	50	07:12 (3)	20:53	18	06:54 (4)	19:28	25	08:08 (5)	18:06	23	10:24 (2)	15:57			15:36	
22	04:56		06:22 (3)	06:00		06:38 (4)	07:05		07:43 (5)	08:11		09:59 (2)	08:21			09:05	
	22:01	50	07:12 (3)	20:50	13	06:51 (4)	19:25	23	08:06 (5)	18:03	27	10:26 (2)	15:56			15:37	
23	04:58		06:22 (3)	06:02		06:41 (4)	07:08		07:44 (5)	08:13		09:58 (2)	08:23			09:06	
	21:59	50	07:12 (3)	20:48	6	06:47 (4)	19:22	21	08:05 (5)	18:00	29	10:27 (2)	15:54			15:37	
24	05:00		06:23 (3)	06:04			07:10		07:45 (5)	08:15		09:57 (2)	08:25			09:06	
	21:58	49	07:12 (3)	20:45			19:19	17	08:02 (5)	17:58	31	10:28 (2)	15:53			15:38	
25	05:01		06:22 (3)	06:06			07:12		07:48 (5)	07:18		08:55 (2)	08:27			09:06	
	21:56	49	07:11 (3)	20:43			19:16	11	07:59 (5)	16:55	34	09:29 (2)	15:51			15:39	
26	05:03		06:03 (1)	06:08			07:14			07:20		08:55 (2)	08:29			09:07	
	21:54	53	07:11 (3)	20:40			19:14			16:53	35	09:30 (2)	15:50			15:39	
27	05:05		06:01 (1)	06:10			07:16			07:22		08:54 (2)	08:31			09:07	
	21:52	58	07:11 (3)	20:37			19:11			16:50	36	09:30 (2)	15:48			15:40	
28	05:07		06:00 (1)	06:13			07:18			07:25		08:54 (2)	08:33			09:07	
	21:50	59	07:11 (3)	20:34			19:08			16:48	37	09:31 (2)	15:47			15:41	
29	05:09		05:58 (1)	06:15			07:20			07:27		08:53 (2)	08:35			09:07	
	21:48	61	07:10 (3)	20:32			19:05			16:45	38	09:31 (2)	15:46			15:42	
30	05:11		05:58 (1)	06:17			07:23			07:29		08:53 (2)	08:37			09:07	
	21:46	61	07:10 (3)	20:29			19:02			16:43	38	09:31 (2)	15:45			15:43	
31	05:13		05:57 (1)	06:19						07:31		08:53 (2)				09:07	
	21:44	63	07:10 (3)	20:26						16:41	38	09:31 (2)				15:44	
Potential sun hours	538			474			386			321			241			207	
Total, worst case		1574			793			417			394			505			
Sun reduction		0.57			0.55			0.43			0.31			0.15			
Oper. time red.		0.93			0.93			0.93			0.93			0.93			
Wind dir. red.		0.63			0.63			0.63			0.63			0.63			
Total reduction		0.33			0.32			0.25			0.18			0.09			
Total, real		520			255			105			71			46			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FV - Veckulmaki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:11	22:11	22:24	21:37	20:18	18:54	16:33	15:41
4	09:05	08:20	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:16	22:21	21:27	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:54
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:52	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:10	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:03
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:02	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:24	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:36	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:06
	16:37	17:50	18:52	21:00	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:14	07:20	07:26	08:35	09:06
	16:39		19:54	21:03	22:03	22:26	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FW - Vecmelderi
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April		May	June
1	09:07		11:49 (11)	08:27		09:18 (12)	07:20			06:54		05:34	04:33
	15:45	66	13:48 (10)	16:46	37	13:44 (10)	17:52			20:01		21:07	22:09
2	09:06		11:50 (11)	08:25		09:18 (12)	07:17		07:57 (13)	06:51		05:31	04:31
	15:47	66	13:49 (10)	16:48	28	09:46 (12)	17:54	13	08:10 (13)	20:03		21:10	22:10
3	09:06		11:51 (11)	08:23		09:18 (12)	07:14		07:53 (13)	06:48		05:29	04:30
	15:48	65	13:49 (10)	16:51	28	09:46 (12)	17:56	19	08:12 (13)	20:06		21:12	22:12
4	09:05		11:51 (11)	08:21		09:18 (12)	07:11		07:51 (13)	06:45		05:26	04:29
	15:49	65	13:50 (10)	16:53	28	09:46 (12)	17:59	23	08:14 (13)	20:08		21:14	22:13
5	09:05		11:52 (11)	08:19		09:18 (12)	07:09		07:50 (13)	06:43		05:24	04:28
	15:51	64	13:50 (10)	16:55	28	09:46 (12)	18:01	26	08:16 (13)	20:10		21:16	22:15
6	09:04		11:54 (11)	08:16		09:19 (12)	07:06		07:48 (13)	06:40		05:22	04:27
	15:52	62	13:51 (10)	16:58	27	09:46 (12)	18:03	29	08:17 (13)	20:12		21:18	22:16
7	09:04		11:55 (11)	08:14		09:19 (12)	07:03		07:47 (13)	06:37		05:19	04:26
	15:54	62	13:52 (10)	17:00	27	09:46 (12)	18:06	31	08:18 (13)	20:14		21:21	22:17
8	09:03		11:55 (11)	08:12		09:20 (12)	07:01		07:45 (13)	06:34		05:17	04:25
	15:56	61	13:52 (10)	17:02	26	09:46 (12)	18:08	33	08:18 (13)	20:17		21:23	22:18
9	09:02		11:57 (11)	08:10		09:21 (12)	06:58		07:44 (13)	06:32		05:15	04:25
	15:57	59	13:52 (10)	17:05	23	09:44 (12)	18:10	34	08:18 (13)	20:19		21:25	22:19
10	09:01		11:58 (11)	08:07		09:22 (12)	06:55		07:44 (13)	06:29		05:12	04:24
	15:59	57	13:53 (10)	17:07	22	09:44 (12)	18:12	35	08:19 (13)	20:21		21:27	22:20
11	09:00		12:00 (11)	08:05		09:23 (12)	06:52		07:44 (13)	06:26		05:10	04:23
	16:01	56	13:54 (10)	17:10	19	09:42 (12)	18:15	35	08:19 (13)	20:23		21:29	22:21
12	08:59		12:02 (11)	08:03		09:24 (12)	06:50		07:43 (13)	06:23		05:08	04:23
	16:03	50	13:53 (10)	17:12	16	09:40 (12)	18:17	36	08:19 (13)	20:25		21:31	22:22
13	08:58		13:13 (10)	08:00		09:27 (12)	06:47		07:43 (13)	06:21		05:06	04:22
	16:05	41	13:54 (10)	17:14	11	09:38 (12)	18:19	35	08:18 (13)	20:28		21:33	22:23
14	08:57		13:13 (10)	07:58			06:44		07:42 (13)	06:18		05:04	04:22
	16:06	41	13:54 (10)	17:17			18:21	36	08:18 (13)	20:30		21:35	22:24
15	08:56		13:14 (10)	07:55			06:41		07:42 (13)	06:15		05:02	04:21
	16:08	41	13:55 (10)	17:19			18:24	35	08:17 (13)	20:32		21:38	22:25
16	08:54		13:14 (10)	07:53			06:38		07:43 (13)	06:12		05:00	04:21
	16:10	41	13:55 (10)	17:21			18:26	34	08:17 (13)	20:34		21:40	22:25
17	08:53		13:14 (10)	07:51			06:36		07:43 (13)	06:10		04:58	04:21
	16:12	41	13:55 (10)	17:24			18:28	33	08:16 (13)	20:36		21:42	22:26
18	08:52		13:16 (10)	07:48			06:33		07:43 (13)	06:07		04:56	04:21
	16:15	40	13:56 (10)	17:26			18:30	32	08:15 (13)	20:39		21:44	22:26
19	08:50		13:16 (10)	07:46			06:30		07:44 (13)	06:04		04:54	04:21
	16:17	39	13:55 (10)	17:29			18:32	29	08:13 (13)	20:41		21:46	22:27
20	08:49		13:16 (10)	07:43			06:27		07:45 (13)	06:02		04:52	04:21
	16:19	39	13:55 (10)	17:31			18:35	26	08:11 (13)	20:43		21:48	22:27
21	08:47		13:17 (10)	07:40			06:25		07:47 (13)	05:59		04:50	04:21
	16:21	38	13:55 (10)	17:33			18:37	23	08:10 (13)	20:45		21:50	22:28
22	08:46		09:25 (12)	07:38			06:22		07:48 (13)	05:57		04:48	04:21
	16:23	46	13:55 (10)	17:36			18:39	20	08:08 (13)	20:48		21:51	22:28
23	08:44		09:23 (12)	07:35			06:19		07:51 (13)	05:54		04:46	04:21
	16:25	49	13:55 (10)	17:38			18:41	13	08:04 (13)	20:50		21:53	22:28
24	08:42		09:22 (12)	07:33			06:16			05:51		04:45	04:22
	16:27	51	13:54 (10)	17:40			18:43			20:52		21:55	22:28
25	08:41		09:21 (12)	07:30			06:13			05:49		04:43	04:22
	16:30	53	13:54 (10)	17:43			18:46			20:54		21:57	22:28
26	08:39		09:20 (12)	07:27			06:11			05:46		04:41	04:22
	16:32	53	13:54 (10)	17:45			18:48			20:56		21:59	22:28
27	08:37		09:20 (12)	07:25			06:08			05:44		04:40	04:23
	16:34	52	13:53 (10)	17:47			18:50			20:59		22:01	22:28
28	08:35		09:19 (12)	07:22			06:05			05:41		04:38	04:24
	16:37	52	13:52 (10)	17:50			18:52			21:01		22:02	22:27
29	08:33		09:18 (12)				07:02			05:39		04:37	04:24
	16:39	50	13:50 (10)				19:55			21:03		22:04	22:27
30	08:31		09:18 (12)				06:59			05:36		04:35	04:25
	16:41	48	13:49 (10)				19:57			21:05		22:06	22:27
31	08:29		09:18 (12)				06:57					04:34	
	16:44	43	13:47 (10)				19:59					22:07	
Potential sun hours	227			262			365			429		515	539
Total, worst case		1591			320			630					
Sun reduction		0.13			0.22			0.37					
Oper. time red.		0.93			0.93			0.93					
Wind dir. red.		0.64			0.64			0.59					
Total reduction		0.08			0.13			0.20					
Total, real		124			42			125					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FW - Vecmelderi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September			October		November			December		
1	04:26	05:15	06:21			07:24		08:22 (13)	07:34		08:51 (12)	08:39		11:43 (11)
	22:26	21:41	20:23			18:59	36	08:58 (13)	16:38	23	09:14 (12)	15:43	54	13:36 (10)
2	04:27	05:17	06:23			07:27		08:22 (13)	07:36		08:50 (12)	08:41		11:42 (11)
	22:26	21:39	20:21			18:57	35	08:57 (13)	16:36	24	09:14 (12)	15:42	56	13:36 (10)
3	04:28	05:19	06:25			07:29		08:21 (13)	07:38		08:50 (12)	08:43		11:41 (11)
	22:25	21:37	20:18			18:54	35	08:56 (13)	16:33	25	09:15 (12)	15:41	59	13:36 (10)
4	04:29	05:21	06:27			07:31		08:22 (13)	07:41		08:49 (12)	08:44		11:41 (11)
	22:24	21:35	20:15			18:51	35	08:57 (13)	16:31	26	09:15 (12)	15:40	60	13:37 (10)
5	04:30	05:23	06:29			07:33		08:22 (13)	07:43		08:49 (12)	08:46		11:40 (11)
	22:24	21:32	20:12			18:48	34	08:56 (13)	16:29	27	09:16 (12)	15:39	62	13:37 (10)
6	04:31	05:25	06:31			07:35		08:22 (13)	07:45		08:48 (12)	08:48		11:39 (11)
	22:23	21:30	20:10			18:46	32	08:54 (13)	16:26	28	09:16 (12)	15:39	63	13:37 (10)
7	04:32	05:27	06:34			07:37		08:23 (13)	07:47		08:48 (12)	08:49		11:39 (11)
	22:22	21:28	20:07			18:43	30	08:53 (13)	16:24	29	09:17 (12)	15:38	63	13:37 (10)
8	04:33	05:30	06:36			07:40		08:24 (13)	07:50		08:48 (12)	08:51		11:40 (11)
	22:21	21:26	20:04			18:40	28	08:52 (13)	16:22	28	09:16 (12)	15:37	65	13:38 (10)
9	04:35	05:32	06:38			07:42		08:25 (13)	07:52		08:48 (12)	08:52		11:40 (11)
	22:20	21:23	20:01			18:37	25	08:50 (13)	16:20	29	09:17 (12)	15:37	65	13:38 (10)
10	04:36	05:34	06:40			07:44		08:26 (13)	07:54		08:49 (12)	08:54		11:40 (11)
	22:19	21:21	19:58			18:35	22	08:48 (13)	16:18	38	13:15 (10)	15:36	65	13:38 (10)
11	04:37	05:36	06:42			07:46		08:28 (13)	07:57		08:49 (12)	08:55		11:40 (11)
	22:18	21:18	19:56			18:32	17	08:45 (13)	16:16	44	13:18 (10)	15:36	66	13:39 (10)
12	04:39	05:38	06:44			07:48		08:32 (13)	07:59		08:50 (12)	08:56		11:40 (11)
	22:16	21:16	19:53			18:29	10	08:42 (13)	16:14	48	13:21 (10)	15:35	66	13:39 (10)
13	04:40	05:40	06:46			07:51			08:01		08:50 (12)	08:57		11:40 (11)
	22:15	21:13	19:50			18:26			16:12	50	13:22 (10)	15:35	66	13:39 (10)
14	04:42	05:42	06:48			07:53			08:03		08:51 (12)	08:59		11:41 (11)
	22:14	21:11	19:47			18:24			16:10	52	13:24 (10)	15:35	66	13:40 (10)
15	04:43	05:45	06:50			07:55			08:06		08:51 (12)	09:00		11:41 (11)
	22:12	21:08	19:44			18:21			16:08	53	13:25 (10)	15:35	67	13:40 (10)
16	04:45	05:47	06:53			07:57			08:08		08:53 (12)	09:01		11:41 (11)
	22:11	21:06	19:42			18:18			16:06	53	13:27 (10)	15:35	67	13:41 (10)
17	04:47	05:49	06:55			07:59			08:10		08:55 (12)	09:02		11:42 (11)
	22:09	21:03	19:39			18:16			16:04	53	13:28 (10)	15:35	67	13:41 (10)
18	04:48	05:51	06:57			08:02			08:12		08:56 (12)	09:02		11:42 (11)
	22:08	21:01	19:36			18:13			16:02	51	13:28 (10)	15:35	67	13:42 (10)
19	04:50	05:53	06:59			08:04			08:15		08:58 (12)	09:03		11:42 (11)
	22:06	20:58	19:33			18:10			16:00	49	13:30 (10)	15:35	66	13:41 (10)
20	04:52	05:55	07:01		08:38 (13)	08:06			08:17		09:00 (12)	09:04		11:43 (11)
	22:05	20:56	19:30	12	08:50 (13)	18:08			15:59	46	13:30 (10)	15:35	67	13:42 (10)
21	04:54	05:57	07:03		08:34 (13)	08:08			08:19		12:53 (10)	09:05		11:43 (11)
	22:03	20:53	19:27	19	08:53 (13)	18:05			15:57	38	13:31 (10)	15:36	68	13:43 (10)
22	04:55	05:59	07:05		08:32 (13)	08:11			08:21		12:53 (10)	09:05		11:43 (11)
	22:01	20:50	19:25	22	08:54 (13)	18:03			15:55	38	13:31 (10)	15:36	68	13:43 (10)
23	04:57	06:02	07:07		08:30 (13)	08:13			08:23		12:52 (10)	09:06		11:45 (11)
	21:59	20:48	19:22	26	08:56 (13)	18:00			15:54	39	13:31 (10)	15:37	67	13:44 (10)
24	04:59	06:04	07:10		08:28 (13)	08:15			08:25		12:53 (10)	09:06		11:45 (11)
	21:58	20:45	19:19	29	08:57 (13)	17:58			15:52	40	13:33 (10)	15:37	66	13:44 (10)
25	05:01	06:06	07:12		08:26 (13)	07:18			08:27		12:52 (10)	09:06		11:45 (11)
	21:56	20:42	19:16	31	08:57 (13)	16:55			15:51	41	13:33 (10)	15:38	66	13:44 (10)
26	05:03	06:08	07:14		08:25 (13)	07:20			08:29		12:53 (10)	09:07		11:46 (11)
	21:54	20:40	19:13	33	08:58 (13)	16:53			15:49	41	13:34 (10)	15:39	67	13:45 (10)
27	05:05	06:10	07:16		08:24 (13)	07:22			08:31		12:53 (10)	09:07		11:46 (11)
	21:52	20:37	19:11	34	08:58 (13)	16:50			15:48	41	13:34 (10)	15:40	66	13:45 (10)
28	05:07	06:12	07:18		08:24 (13)	07:24			08:33		12:53 (10)	09:07		11:47 (11)
	21:50	20:34	19:08	35	08:59 (13)	16:48			15:47	41	13:34 (10)	15:41	66	13:46 (10)
29	05:09	06:14	07:20		08:23 (13)	07:27		08:56 (12)	08:35		12:53 (10)	09:07		11:48 (11)
	21:48	20:32	19:05	36	08:59 (13)	16:45	12	09:08 (12)	15:45	41	13:34 (10)	15:42	66	13:47 (10)
30	05:11	06:17	07:22		08:23 (13)	07:29		08:53 (12)	08:37		11:43 (11)	09:07		11:48 (11)
	21:46	20:29	19:02	35	08:58 (13)	16:43	17	09:10 (12)	15:44	51	13:35 (10)	15:43	66	13:47 (10)
31	05:13	06:19				07:31		08:52 (12)				09:07		11:49 (11)
	21:44	20:26				16:40	20	09:12 (12)				15:44	66	13:48 (10)
Potential sun hours	539	475	386			321			241			207		
Total, worst case				312			388			1187			2009	
Sun reduction				0.43			0.31			0.15			0.13	
Oper. time red.				0.93			0.93			0.93			0.93	
Wind dir. red.				0.59			0.59			0.64			0.65	
Total reduction				0.23			0.17			0.09			0.08	
Total, real				73			65			109			154	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FX - Vecsalaca 4

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:53
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FY - Vecsalaca 5

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:53
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:48	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: FZ - Vecsalaca 6

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:40	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:50
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:53
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:02	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:57
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:02	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:28	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:56	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GA - Vecsalacas 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GB - Vecsalacas 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:07	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:39	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:05	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:15	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:22	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:51	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:43	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:06	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:08		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GC - Vecsilupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May	June
1	09:07		10:36 (11)	08:27		11:55 (10)	07:20		08:33 (12)	06:54		07:50 (13)	05:34	04:33
	15:45	90	13:29 (7)	16:46	61	15:50 (1)	17:52	7	08:40 (12)	20:01	26	08:16 (13)	21:07	22:09
2	09:06		10:37 (11)	08:25		11:55 (10)	07:17			06:51		07:50 (13)	05:31	04:32
	15:47	88	13:29 (7)	16:48	54	15:46 (1)	17:54			20:03	24	08:14 (13)	21:10	22:10
3	09:06		10:38 (11)	08:23		11:56 (10)	07:14			06:48		07:50 (13)	05:29	04:30
	15:48	81	12:34 (10)	16:51	49	12:45 (10)	17:56			20:06	22	08:12 (13)	21:12	22:12
4	09:05		10:38 (11)	08:21		11:56 (10)	07:11			06:45		07:51 (13)	05:26	04:29
	15:49	81	12:34 (10)	16:53	47	12:43 (10)	17:59			20:08	19	08:10 (13)	21:14	22:13
5	09:05		10:38 (11)	08:19		11:57 (10)	07:09			06:43		07:54 (13)	05:24	04:28
	15:51	83	12:35 (10)	16:55	46	12:43 (10)	18:01			20:10	14	08:08 (13)	21:16	22:15
6	09:04		10:39 (11)	08:16		11:59 (10)	07:06			06:40		07:57 (13)	05:22	04:27
	15:52	83	12:36 (10)	16:58	44	12:43 (10)	18:03			20:12	7	08:04 (13)	21:18	22:16
7	09:04		10:40 (11)	08:14		12:00 (10)	07:03			06:37			05:19	04:26
	15:54	84	12:37 (10)	17:00	41	12:41 (10)	18:06			20:14			21:21	22:17
8	09:03		10:39 (11)	08:12		12:01 (10)	07:01			06:34			05:17	04:25
	15:56	85	12:37 (10)	17:03	39	12:40 (10)	18:08			20:17			21:23	22:18
9	09:02		10:40 (11)	08:10		12:03 (10)	06:58			06:32			05:15	04:25
	15:57	85	12:38 (10)	17:05	35	12:38 (10)	18:10			20:19			21:25	22:19
10	09:01		10:40 (11)	08:07		12:05 (10)	06:55			06:29			05:12	04:24
	15:59	87	12:39 (10)	17:07	32	12:37 (10)	18:12			20:21			21:27	22:20
11	09:00		10:41 (11)	08:05		12:07 (10)	06:52			06:26			05:10	04:23
	16:01	87	12:40 (10)	17:10	27	12:34 (10)	18:15			20:23			21:29	22:21
12	08:59		10:41 (11)	08:03		08:35 (12)	06:50			06:23			05:08	04:23
	16:03	87	12:40 (10)	17:12	29	12:32 (10)	18:17			20:25			21:31	22:22
13	08:58		10:42 (11)	08:00		08:31 (12)	06:47			06:21			05:06	04:22
	16:05	87	12:41 (10)	17:14	25	12:27 (10)	18:19			20:28			21:33	22:23
14	08:57		10:42 (11)	07:58		08:29 (12)	06:44			06:18			05:04	04:22
	16:06	87	12:41 (10)	17:17	17	08:46 (12)	18:21			20:30			21:36	22:24
15	08:56		10:43 (11)	07:55		08:28 (12)	06:41			06:15			05:02	04:21
	16:08	87	12:42 (10)	17:19	20	08:48 (12)	18:24			20:32			21:38	22:25
16	08:54		10:43 (11)	07:53		08:27 (12)	06:39			06:12			05:00	04:21
	16:10	87	12:42 (10)	17:22	22	08:49 (12)	18:26			20:34			21:40	22:25
17	08:53		10:43 (11)	07:51		08:25 (12)	06:36			06:10			04:58	04:21
	16:12	87	12:42 (10)	17:24	24	08:49 (12)	18:28			20:36			21:42	22:26
18	08:52		10:45 (11)	07:48		08:26 (12)	06:33			06:07			04:56	04:21
	16:15	87	12:44 (10)	17:26	24	08:50 (12)	18:30			20:39			21:44	22:26
19	08:50		10:45 (11)	07:46		08:25 (12)	06:30		07:02 (13)	06:04			04:54	04:21
	16:17	89	15:36 (1)	17:29	25	08:50 (12)	18:32	9	07:11 (13)	20:41			21:46	22:27
20	08:49		10:46 (11)	07:43		08:24 (12)	06:27		06:58 (13)	06:02			04:52	04:21
	16:19	89	15:38 (1)	17:31	26	08:50 (12)	18:35	16	07:14 (13)	20:43			21:48	22:27
21	08:47		10:47 (11)	07:40		08:25 (12)	06:25		06:56 (13)	05:59			04:50	04:21
	16:21	92	15:41 (1)	17:33	26	08:51 (12)	18:37	20	07:16 (13)	20:45			21:50	22:28
22	08:46		10:48 (11)	07:38		08:24 (12)	06:22		06:55 (13)	05:57			04:48	04:21
	16:23	93	15:43 (1)	17:36	26	08:50 (12)	18:39	22	07:17 (13)	20:48			21:51	22:28
23	08:44		10:49 (11)	07:35		08:24 (12)	06:19		06:53 (13)	05:54			04:46	04:21
	16:25	95	15:46 (1)	17:38	25	08:49 (12)	18:41	25	07:18 (13)	20:50			21:53	22:28
24	08:42		10:50 (11)	07:33		08:25 (12)	06:16		06:52 (13)	05:51			04:45	04:22
	16:28	95	15:48 (1)	17:40	25	08:50 (12)	18:44	26	07:18 (13)	20:52			21:55	22:28
25	08:41		10:51 (11)	07:30		08:26 (12)	06:13		06:50 (13)	05:49			04:43	04:22
	16:30	95	15:51 (1)	17:43	22	08:48 (12)	18:46	28	07:18 (13)	20:54			21:57	22:28
26	08:39		10:53 (11)	07:27		08:26 (12)	06:11		06:50 (13)	05:46			04:41	04:22
	16:32	93	15:52 (1)	17:45	21	08:47 (12)	18:48	28	07:18 (13)	20:56			21:59	22:28
27	08:37		10:55 (11)	07:25		08:27 (12)	06:08		06:50 (13)	05:44			04:40	04:23
	16:34	89	15:53 (1)	17:47	18	08:45 (12)	18:50	29	07:19 (13)	20:59			22:01	22:28
28	08:35		10:58 (11)	07:22		08:30 (12)	06:05		06:49 (13)	05:41			04:38	04:24
	16:37	83	15:53 (1)	17:50	14	08:44 (12)	18:52	29	07:18 (13)	21:01			22:02	22:27
29	08:33		11:52 (10)				07:02		07:49 (13)	05:39			04:37	04:24
	16:39	70	15:52 (1)				19:55	29	08:18 (13)	21:03			22:04	22:27
30	08:31		11:53 (10)				06:59		07:49 (13)	05:36			04:35	04:25
	16:41	68	15:51 (1)				19:57	28	08:17 (13)	21:05			22:06	22:27
31	08:29		11:54 (10)				06:57		07:49 (13)				04:34	
	16:44	65	15:51 (1)				19:59	28	08:17 (13)				22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		2659			864			324			112			
Sun reduction		0.13			0.22			0.37			0.46			
Oper. time red.		0.93			0.93			0.93			0.93			
Wind dir. red.		0.64			0.64			0.64			0.64			
Total reduction		0.08			0.13			0.22			0.27			
Total, real		207			114			70			30			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GC - Vecsilupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September		October		November		December	
1	04:26	05:15	06:21		07:24		07:34	11:34 (10)	08:39	10:23 (11)
	22:26	21:41	20:23		18:59		16:38 33	12:07 (10)	15:43 86	12:22 (10)
2	04:27	05:17	06:23		07:27		07:36	11:32 (10)	08:41	10:23 (11)
	22:26	21:39	20:21		18:57		16:36 36	12:08 (10)	15:42 87	12:22 (10)
3	04:28	05:19	06:25		07:29		07:38	11:31 (10)	08:43	10:24 (11)
	22:25	21:37	20:18		18:54		16:33 39	12:10 (10)	15:41 85	12:22 (10)
4	04:29	05:21	06:27		07:31		07:41	11:29 (10)	08:44	10:24 (11)
	22:24	21:35	20:15		18:51		16:31 42	12:11 (10)	15:40 85	12:22 (10)
5	04:30	05:23	06:29		07:33		07:43	11:28 (10)	08:46	10:25 (11)
	22:24	21:33	20:12		18:48		16:29 44	12:12 (10)	15:39 84	12:22 (10)
6	04:31	05:25	06:31	07:54 (13)	07:35		07:45	11:27 (10)	08:48	10:24 (11)
	22:23	21:30	20:10 6	08:00 (13)	18:46		16:26 46	12:13 (10)	15:39 83	12:21 (10)
7	04:32	05:28	06:34	07:49 (13)	07:37		07:47	11:27 (10)	08:49	10:25 (11)
	22:22	21:28	20:07 14	08:03 (13)	18:43		16:24 47	12:14 (10)	15:38 83	12:22 (10)
8	04:33	05:30	06:36	07:47 (13)	07:40		07:50	11:26 (10)	08:51	10:26 (11)
	22:21	21:26	20:04 18	08:05 (13)	18:40		16:22 49	12:15 (10)	15:37 82	12:22 (10)
9	04:35	05:32	06:38	07:45 (13)	07:42		07:52	11:25 (10)	08:52	10:27 (11)
	22:20	21:23	20:01 22	08:07 (13)	18:37		16:20 55	15:18 (1)	15:37 81	12:23 (10)
10	04:36	05:34	06:40	07:43 (13)	07:44		07:54	11:25 (10)	08:54	10:27 (11)
	22:19	21:21	19:58 24	08:07 (13)	18:35		16:18 62	15:21 (1)	15:36 87	13:18 (7)
11	04:37	05:36	06:42	07:42 (13)	07:46		07:57	11:25 (10)	08:55	10:28 (11)
	22:18	21:18	19:56 26	08:08 (13)	18:32		16:16 65	15:22 (1)	15:36 89	13:20 (7)
12	04:39	05:38	06:44	07:41 (13)	07:48		07:59	11:25 (10)	08:56	10:28 (11)
	22:16	21:16	19:53 27	08:08 (13)	18:29		16:14 67	15:23 (1)	15:35 90	13:21 (7)
13	04:40	05:40	06:46	07:40 (13)	07:51	09:04 (12)	08:01	11:24 (10)	08:57	10:28 (11)
	22:15	21:13	19:50 28	08:08 (13)	18:26 11	09:15 (12)	16:12 69	15:23 (1)	15:35 90	13:21 (7)
14	04:42	05:42	06:48	07:39 (13)	07:53	09:01 (12)	08:03	10:30 (11)	08:59	10:29 (11)
	22:14	21:11	19:47 29	08:08 (13)	18:24 16	09:17 (12)	16:10 83	15:25 (1)	15:35 92	13:23 (7)
15	04:43	05:45	06:50	07:39 (13)	07:55	09:00 (12)	08:06	10:27 (11)	09:00	10:30 (11)
	22:12	21:08	19:44 29	08:08 (13)	18:21 19	09:19 (12)	16:08 89	15:24 (1)	15:35 91	13:24 (7)
16	04:45	05:47	06:53	07:38 (13)	07:57	08:58 (12)	08:08	10:26 (11)	09:01	10:30 (11)
	22:11	21:06	19:42 29	08:07 (13)	18:18 21	09:19 (12)	16:06 93	15:25 (1)	15:35 93	13:25 (7)
17	04:47	05:49	06:55	07:38 (13)	07:59	08:57 (12)	08:10	10:25 (11)	09:02	10:31 (11)
	22:09	21:03	19:39 29	08:07 (13)	18:16 23	09:20 (12)	16:04 95	15:25 (1)	15:35 91	13:25 (7)
18	04:48	05:51	06:57	07:38 (13)	08:02	08:56 (12)	08:12	10:24 (11)	09:02	10:31 (11)
	22:08	21:01	19:36 28	08:06 (13)	18:13 25	09:21 (12)	16:02 95	15:22 (1)	15:35 92	13:26 (7)
19	04:50	05:53	06:59	07:38 (13)	08:04	08:55 (12)	08:15	10:24 (11)	09:03	10:31 (11)
	22:06	20:58	19:33 27	08:05 (13)	18:10 26	09:21 (12)	16:00 95	15:21 (1)	15:35 93	13:26 (7)
20	04:52	05:55	07:01	07:39 (13)	08:06	08:56 (12)	08:17	10:23 (11)	09:04	10:32 (11)
	22:05	20:56	19:30 26	08:05 (13)	18:08 25	09:21 (12)	15:59 93	15:18 (1)	15:36 92	13:27 (7)
21	04:54	05:57	07:03	07:40 (13)	08:08	08:55 (12)	08:19	10:23 (11)	09:05	10:33 (11)
	22:03	20:53	19:27 23	08:03 (13)	18:05 26	09:21 (12)	15:57 93	15:17 (1)	15:36 92	13:28 (7)
22	04:55	06:00	07:05	07:41 (13)	08:11	08:55 (12)	08:21	10:22 (11)	09:05	10:33 (11)
	22:01	20:50	19:25 20	08:01 (13)	18:03 26	09:21 (12)	15:55 89	15:14 (1)	15:36 92	13:28 (7)
23	04:57	06:02	07:07	07:42 (13)	08:13	08:55 (12)	08:23	10:21 (11)	09:06	10:34 (11)
	21:59	20:48	19:22 17	07:59 (13)	18:00 25	09:20 (12)	15:54 88	15:12 (1)	15:37 92	13:29 (7)
24	04:59	06:04	07:10	07:44 (13)	08:15	08:55 (12)	08:25	10:22 (11)	09:06	10:34 (11)
	21:58	20:45	19:19 12	07:56 (13)	17:58 24	09:19 (12)	15:52 87	12:21 (10)	15:37 92	13:29 (7)
25	05:01	06:06	07:12		07:18	07:56 (12)	08:27	10:22 (11)	09:06	10:34 (11)
	21:56	20:42	19:16		16:55 23	08:19 (12)	15:51 87	12:21 (10)	15:38 91	13:29 (7)
26	05:03	06:08	07:14		07:20	07:56 (12)	08:29	10:22 (11)	09:07	10:34 (11)
	21:54	20:40	19:13		16:53 22	08:18 (12)	15:49 87	12:21 (10)	15:39 92	13:29 (7)
27	05:05	06:10	07:16		07:22	07:58 (12)	08:31	10:22 (11)	09:07	10:35 (11)
	21:52	20:37	19:11		16:50 19	08:17 (12)	15:48 87	12:21 (10)	15:40 91	13:29 (7)
28	05:07	06:12	07:18		07:24	07:59 (12)	08:33	10:22 (11)	09:07	10:35 (11)
	21:50	20:34	19:08		16:48 16	08:15 (12)	15:47 88	12:21 (10)	15:41 92	13:30 (7)
29	05:09	06:14	07:20		07:27	08:01 (12)	08:35	10:22 (11)	09:07	10:36 (11)
	21:48	20:32	19:05		16:45 26	11:57 (10)	15:45 87	12:21 (10)	15:42 91	13:30 (7)
30	05:11	06:17	07:22		07:29	08:05 (12)	08:37	10:22 (11)	09:07	10:36 (11)
	21:46	20:29	19:02		16:43 27	12:01 (10)	15:44 87	12:21 (10)	15:43 90	13:29 (7)
31	05:13	06:19			07:31	11:36 (10)			09:07	10:36 (11)
	21:44	20:26			16:40 28	12:04 (10)			15:44 91	13:30 (7)
Potential sun hours	538	475	386		321		241		207	
Total, worst case				434		428		2177		2762
Sun reduction				0.43		0.31		0.15		0.13
Oper. time red.				0.93		0.93		0.93		0.93
Wind dir. red.				0.64		0.63		0.65		0.64
Total reduction				0.25		0.18		0.09		0.08
Total, real				110		76		202		208

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GD - Vecspridi š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:07		11:43 (13)	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39		
	15:45	9	11:52 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43		
2	09:06		11:45 (13)	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41		
	15:46	7	11:52 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42		
3	09:06		11:47 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43		
	15:48	3	11:50 (13)	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:05			08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44		
	15:49			16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05			08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46		
	15:51			16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39		
6	09:04			08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48		
	15:52			16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38		
7	09:04			08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49		
	15:54			17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38		
8	09:03			08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51		
	15:55			17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37		
9	09:02			08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52		11:37 (13)
	15:57			17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36	1	11:38 (13)
10	09:01			08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54		11:34 (13)
	15:59			17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36	7	11:41 (13)
11	09:00			08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		11:34 (13)
	16:01			17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36	9	11:43 (13)
12	08:59			08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56		11:33 (13)
	16:03			17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35	11	11:44 (13)
13	08:58			08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57		11:32 (13)
	16:04			17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35	13	11:45 (13)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59		11:33 (13)
	16:06			17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35	14	11:47 (13)
15	08:56			07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00		11:33 (13)
	16:08			17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35	14	11:47 (13)
16	08:54			07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01		11:33 (13)
	16:10			17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35	15	11:48 (13)
17	08:53			07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02		11:33 (13)
	16:12			17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	16	11:49 (13)
18	08:52			07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03		11:34 (13)
	16:14			17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35	16	11:50 (13)
19	08:50			07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		11:33 (13)
	16:16			17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35	16	11:49 (13)
20	08:49			07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		11:34 (13)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35	16	11:50 (13)
21	08:47			07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05		11:35 (13)
	16:21			17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36	16	11:51 (13)
22	08:46			07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05		11:35 (13)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	16	11:51 (13)
23	08:44			07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06		11:36 (13)
	16:25			17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37	16	11:52 (13)
24	08:42			07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06		11:36 (13)
	16:27			17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37	16	11:52 (13)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06		11:36 (13)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	17	11:53 (13)
26	08:39			07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07		11:37 (13)
	16:32			17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	16	11:53 (13)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07		11:38 (13)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	15	11:53 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07		11:39 (13)
	16:36			17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40	14	11:53 (13)
29	08:33				07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07		11:40 (13)
	16:39				19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41	13	11:53 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07		11:41 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	13	11:54 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31		09:07		11:41 (13)
	16:43				19:59		22:07		21:44	20:26		16:40		15:44	12	11:53 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241	207		
Total, worst case		19													312	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.65													0.65	
Total reduction		0.08													0.08	
Total, real		2													24	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GE - Vecto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February			March			April			May			June
1	09:06			08:27		15:24 (9)	07:19			06:54			05:34		18:59 (12)	04:33
	15:45			16:46	28	15:52 (9)	17:52			20:01			21:07	47	19:46 (12)	22:09
2	09:06			08:25		15:24 (9)	07:17			06:51			05:31		18:58 (12)	04:31
	15:47			16:48	28	15:52 (9)	17:54			20:03			21:09	47	19:45 (12)	22:10
3	09:06			08:23		15:25 (9)	07:14			06:48			05:29		18:59 (12)	04:30
	15:48			16:51	28	15:53 (9)	17:56			20:05			21:12	46	19:45 (12)	22:12
4	09:05			08:21		15:25 (9)	07:11			06:45			05:26		18:59 (12)	04:29
	15:49			16:53	27	15:52 (9)	17:59			20:08			21:14	46	19:45 (12)	22:13
5	09:05			08:18		15:25 (9)	07:09			06:42			05:24		19:00 (12)	04:28
	15:51			16:55	27	15:52 (9)	18:01			20:10			21:16	45	19:45 (12)	22:14
6	09:04			08:16		15:25 (9)	07:06			06:40			05:22		19:00 (12)	04:27
	15:52			16:58	26	15:51 (9)	18:03			20:12			21:18	43	19:43 (12)	22:16
7	09:03			08:14		15:27 (9)	07:03			06:37			05:19		19:00 (12)	04:26
	15:54			17:00	24	15:51 (9)	18:05			20:14			21:20	43	19:43 (12)	22:17
8	09:03			08:12		15:27 (9)	07:00			06:34			05:17		19:01 (12)	04:25
	15:56			17:02	23	15:50 (9)	18:08			20:16			21:23	41	19:42 (12)	22:18
9	09:02			08:10		15:28 (9)	06:58			06:31			05:15		19:02 (12)	04:25
	15:57			17:05	22	15:50 (9)	18:10			20:19			21:25	39	19:41 (12)	22:19
10	09:01			08:07		15:29 (9)	06:55			06:29			05:12		19:03 (12)	04:24
	15:59			17:07	19	15:48 (9)	18:12			20:21			21:27	37	19:40 (12)	22:20
11	09:00			08:05		15:32 (9)	06:52			06:26		19:21 (12)	05:10		19:04 (12)	04:23
	16:01			17:10	15	15:47 (9)	18:14			20:23	10	19:31 (12)	21:29	36	19:40 (12)	22:21
12	08:59			08:03		15:34 (9)	06:49			06:23		19:17 (12)	05:08		19:05 (12)	04:23
	16:03			17:12	10	15:44 (9)	18:17			20:25	19	19:36 (12)	21:31	33	19:38 (12)	22:22
13	08:58			08:00			06:47			06:20		19:13 (12)	05:06		19:06 (12)	04:22
	16:04			17:14			18:19			20:27	25	19:38 (12)	21:33	31	19:37 (12)	22:23
14	08:57			07:58			06:44			06:18		19:10 (12)	05:04		19:07 (12)	04:22
	16:06			17:17			18:21			20:30	30	19:40 (12)	21:35	29	19:36 (12)	22:24
15	08:55			07:55			06:41			06:15		19:09 (12)	05:02		19:09 (12)	04:21
	16:08			17:19			18:23			20:32	33	19:42 (12)	21:37	26	19:35 (12)	22:24
16	08:54			07:53			06:38			06:12		19:07 (12)	05:00		19:11 (12)	04:21
	16:10			17:21			18:26			20:34	36	19:43 (12)	21:39	23	19:34 (12)	22:25
17	08:53			07:50			06:36		17:52 (11)	06:10		19:06 (12)	04:58		19:13 (12)	04:21
	16:12			17:24			18:28	7	17:59 (11)	20:36	38	19:44 (12)	21:41	19	19:32 (12)	22:26
18	08:51			07:48			06:33		17:50 (11)	06:07		19:04 (12)	04:56		19:15 (12)	04:21
	16:14			17:26			18:30	11	18:01 (11)	20:38	40	19:44 (12)	21:43	14	19:29 (12)	22:26
19	08:50			07:45			06:30		17:48 (11)	06:04		19:04 (12)	04:54		19:21 (12)	04:21
	16:17			17:28			18:32	15	18:03 (11)	20:41	42	19:46 (12)	21:45	4	19:25 (12)	22:27
20	08:49			07:43			06:27		17:46 (11)	06:02		19:02 (12)	04:52			04:21
	16:19			17:31			18:35	19	18:05 (11)	20:43	44	19:46 (12)	21:47			22:27
21	08:47		15:31 (9)	07:40			06:24		17:45 (11)	05:59		19:01 (12)	04:50			04:21
	16:21	9	15:40 (9)	17:33			18:37	21	18:06 (11)	20:45	45	19:46 (12)	21:49			22:27
22	08:45		15:29 (9)	07:38			06:22		17:45 (11)	05:56		19:01 (12)	04:48			04:21
	16:23	14	15:43 (9)	17:35			18:39	22	18:07 (11)	20:47	45	19:46 (12)	21:51			22:27
23	08:44		15:28 (9)	07:35			06:19		17:44 (11)	05:54		19:01 (12)	04:46			04:21
	16:25	17	15:45 (9)	17:38			18:41	23	18:07 (11)	20:50	46	19:47 (12)	21:53			22:28
24	08:42		15:27 (9)	07:33			06:16		17:44 (11)	05:51		19:00 (12)	04:45			04:21
	16:27	19	15:46 (9)	17:40			18:43	23	18:07 (11)	20:52	47	19:47 (12)	21:55			22:28
25	08:40		15:26 (9)	07:30			06:13		17:43 (11)	05:49		19:00 (12)	04:43			04:22
	16:30	21	15:47 (9)	17:42			18:46	23	18:06 (11)	20:54	47	19:47 (12)	21:57			22:28
26	08:39		15:26 (9)	07:27			06:10		17:43 (11)	05:46		18:59 (12)	04:41			04:22
	16:32	23	15:49 (9)	17:45			18:48	22	18:05 (11)	20:56	48	19:47 (12)	21:59			22:28
27	08:37		15:25 (9)	07:25			06:08		17:44 (11)	05:44		18:59 (12)	04:40			04:23
	16:34	25	15:50 (9)	17:47			18:50	21	18:05 (11)	20:58	48	19:47 (12)	22:00			22:27
28	08:35		15:24 (9)	07:22			06:05		17:45 (11)	05:41		18:58 (12)	04:38			04:23
	16:37	26	15:50 (9)	17:49			18:52	18	18:03 (11)	21:01	48	19:46 (12)	22:02			22:27
29	08:33		15:24 (9)				07:02		18:46 (11)	05:38		18:58 (12)	04:37			04:24
	16:39	26	15:50 (9)				19:54	15	19:01 (11)	21:03	48	19:46 (12)	22:04			22:27
30	08:31		15:24 (9)				06:59		18:48 (11)	05:36		18:59 (12)	04:35			04:25
	16:41	27	15:51 (9)				19:57	11	18:59 (11)	21:05	47	19:46 (12)	22:05			22:26
31	08:29		15:25 (9)				06:56						04:34			
	16:43	27	15:52 (9)				19:59						22:07			
Potential sun hours	227			262			365			429			515			539
Total, worst case		234			277			251			786			649		
Sun reduction		0.13			0.22			0.37			0.46			0.58		
Oper. time red.		0.93			0.93			0.93			0.93			0.93		
Wind dir. red.		0.67			0.67			0.65			0.63			0.63		
Total reduction		0.08			0.14			0.22			0.27			0.34		
Total, real		19			38			55			212			220		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GE - Vecto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July			August			September			October			November			December
1	04:26			05:15		19:14 (12)	06:21		19:21 (12)	07:24			07:33		14:59 (9)	08:39
	22:26			21:41	35	19:49 (12)	20:23	9	19:30 (12)	18:59			16:38	19	15:18 (9)	15:43
2	04:27			05:17		19:14 (12)	06:23			07:26			07:36		14:58 (9)	08:41
	22:25			21:39	36	19:50 (12)	20:20			18:56			16:35	22	15:20 (9)	15:42
3	04:28			05:19		19:13 (12)	06:25			07:29			07:38		14:56 (9)	08:42
	22:25			21:37	38	19:51 (12)	20:18			18:54			16:33	24	15:20 (9)	15:41
4	04:29			05:21		19:12 (12)	06:27			07:31			07:40		14:56 (9)	08:44
	22:24			21:35	40	19:52 (12)	20:15			18:51			16:31	25	15:21 (9)	15:40
5	04:30			05:23		19:11 (12)	06:29			07:33			07:43		14:56 (9)	08:46
	22:23			21:32	41	19:52 (12)	20:12			18:48			16:29	26	15:22 (9)	15:39
6	04:31			05:25		19:10 (12)	06:31			07:35			07:45		14:55 (9)	08:47
	22:23			21:30	43	19:53 (12)	20:09			18:45			16:26	27	15:22 (9)	15:39
7	04:32			05:27		19:10 (12)	06:33			07:37			07:47		14:55 (9)	08:49
	22:22			21:28	44	19:54 (12)	20:07			18:43			16:24	28	15:23 (9)	15:38
8	04:33			05:30		19:09 (12)	06:36			07:39			07:50		14:55 (9)	08:51
	22:21			21:25	45	19:54 (12)	20:04			18:40			16:22	27	15:22 (9)	15:37
9	04:34			05:32		19:09 (12)	06:38			07:42			07:52		14:55 (9)	08:52
	22:20			21:23	45	19:54 (12)	20:01			18:37			16:20	28	15:23 (9)	15:37
10	04:36			05:34		19:08 (12)	06:40			07:44			07:54		14:55 (9)	08:53
	22:19			21:21	47	19:55 (12)	19:58			18:34			16:18	27	15:22 (9)	15:36
11	04:37			05:36		19:08 (12)	06:42			07:46			07:56		14:55 (9)	08:55
	22:17			21:18	47	19:55 (12)	19:55			18:32			16:16	28	15:23 (9)	15:36
12	04:39			05:38		19:07 (12)	06:44			07:48			07:59		14:56 (9)	08:56
	22:16			21:16	48	19:55 (12)	19:53			18:29			16:14	27	15:23 (9)	15:35
13	04:40			05:40		19:07 (12)	06:46		18:40 (11)	07:50			08:01		14:56 (9)	08:57
	22:15			21:13	48	19:55 (12)	19:50	9	18:49 (11)	18:26			16:12	26	15:22 (9)	15:35
14	04:42			05:42		19:06 (12)	06:48		18:37 (11)	07:53			08:03		14:57 (9)	08:58
	22:14			21:11	48	19:54 (12)	19:47	14	18:51 (11)	18:24			16:10	25	15:22 (9)	15:35
15	04:43			05:44		19:05 (12)	06:50		18:35 (11)	07:55			08:06		14:57 (9)	08:59
	22:12			21:08	49	19:54 (12)	19:44	17	18:52 (11)	18:21			16:08	24	15:21 (9)	15:35
16	04:45			05:47		19:05 (12)	06:52		18:33 (11)	07:57			08:08		14:59 (9)	09:00
	22:11			21:06	48	19:53 (12)	19:41	20	18:53 (11)	18:18			16:06	22	15:21 (9)	15:35
17	04:47			05:49		19:05 (12)	06:55		18:32 (11)	07:59			08:10		14:59 (9)	09:01
	22:09			21:03	48	19:53 (12)	19:39	21	18:53 (11)	18:16			16:04	21	15:20 (9)	15:35
18	04:48			05:51		19:05 (12)	06:57		18:31 (11)	08:02			08:12		15:01 (9)	09:02
	22:08			21:01	48	19:53 (12)	19:36	22	18:53 (11)	18:13			16:02	19	15:20 (9)	15:35
19	04:50			05:53		19:05 (12)	06:59		18:30 (11)	08:04			08:14		15:02 (9)	09:03
	22:06			20:58	47	19:52 (12)	19:33	23	18:53 (11)	18:10			16:00	17	15:19 (9)	15:35
20	04:52			05:55		19:05 (12)	07:01		18:30 (11)	08:06			08:17		15:04 (9)	09:04
	22:04			20:55	47	19:52 (12)	19:30	23	18:53 (11)	18:08			15:59	14	15:18 (9)	15:35
21	04:54			05:57		19:05 (12)	07:03		18:29 (11)	08:08			08:19		15:06 (9)	09:04
	22:03			20:53	46	19:51 (12)	19:27	23	18:52 (11)	18:05			15:57	9	15:15 (9)	15:36
22	04:55			05:59		19:06 (12)	07:05		18:30 (11)	08:11			08:21			09:05
	22:01			20:50	44	19:50 (12)	19:24	22	18:52 (11)	18:03			15:55			15:36
23	04:57			06:02		19:06 (12)	07:07		18:31 (11)	08:13			08:23			09:05
	21:59			20:48	43	19:49 (12)	19:22	20	18:51 (11)	18:00			15:54			15:37
24	04:59			06:04		19:07 (12)	07:09		18:31 (11)	08:15			08:25			09:06
	21:57			20:45	41	19:48 (12)	19:19	17	18:48 (11)	17:57			15:52			15:37
25	05:01		19:28 (12)	06:06		19:07 (12)	07:11		18:32 (11)	07:17			08:27			09:06
	21:55	10	19:38 (12)	20:42	40	19:47 (12)	19:16	13	18:45 (11)	16:55			15:51			15:38
26	05:03		19:25 (12)	06:08		19:08 (12)	07:14		18:33 (11)	07:20			08:29			09:06
	21:54	16	19:41 (12)	20:40	38	19:46 (12)	19:13	9	18:42 (11)	16:52			15:49			15:39
27	05:05		19:22 (12)	06:10		19:09 (12)	07:16		18:37 (11)	07:22			08:31			09:07
	21:52	21	19:43 (12)	20:37	35	19:44 (12)	19:10	2	18:39 (11)	16:50			15:48			15:40
28	05:07		19:20 (12)	06:12		19:10 (12)	07:18			07:24			08:33			09:07
	21:50	25	19:45 (12)	20:34	32	19:42 (12)	19:08			16:47			15:47			15:41
29	05:09		19:19 (12)	06:14		19:11 (12)	07:20			07:27			08:35			09:07
	21:48	27	19:46 (12)	20:31	29	19:40 (12)	19:05			16:45			15:45			15:42
30	05:11		19:18 (12)	06:16		19:13 (12)	07:22			07:29		15:03 (9)	08:37			09:07
	21:45	30	19:48 (12)	20:29	25	19:38 (12)	19:02			16:43	11	15:14 (9)	15:44			15:43
31	05:13		19:16 (12)	06:19		19:16 (12)				07:31		15:01 (9)				09:07
	21:43	33	19:49 (12)	20:26	19	19:35 (12)				16:40	16	15:17 (9)				15:44
Potential sun hours	538			474			386			321			241			207
Total, worst case		162			1284			264			27			485		
Sun reduction		0.57			0.55			0.43			0.31			0.15		
Oper. time red.		0.93			0.93			0.93			0.93			0.93		
Wind dir. red.		0.63			0.63			0.65			0.67			0.67		
Total reduction		0.33			0.32			0.26			0.19			0.10		
Total, real		54			410			68			5			47		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GF - Vecupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:07		12:58 (13)	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39		
	15:45	10	13:08 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43		
2	09:06		13:00 (13)	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41		
	15:46	8	13:08 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42		
3	09:06		13:02 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43		
	15:48	5	13:07 (13)	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:05			08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44		
	15:49			16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05			08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46		
	15:51			16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39		
6	09:04			08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48		
	15:52			16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38		
7	09:04			08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49		
	15:54			17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38		
8	09:03			08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51		
	15:55			17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37		
9	09:02			08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52		12:51 (13)
	15:57			17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36	5	12:56 (13)
10	09:01			08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54		12:49 (13)
	15:59			17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36	8	12:57 (13)
11	09:00			08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		12:49 (13)
	16:01			17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:15	15:36	10	12:59 (13)
12	08:59			08:03	06:49	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56		12:48 (13)
	16:02			17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35	12	13:00 (13)
13	08:58			08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57		12:48 (13)
	16:04			17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35	13	13:01 (13)
14	08:57			07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59		12:49 (13)
	16:06			17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35	14	13:03 (13)
15	08:56			07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00		12:49 (13)
	16:08			17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35	14	13:03 (13)
16	08:54			07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01		12:49 (13)
	16:10			17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35	15	13:04 (13)
17	08:53			07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02		12:49 (13)
	16:12			17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35	16	13:05 (13)
18	08:52			07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:02		12:49 (13)
	16:14			17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35	17	13:06 (13)
19	08:50			07:45	06:30	06:04	04:54	04:20	04:50	05:53	06:59	08:04	08:15	09:03		12:49 (13)
	16:16			17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35	16	13:05 (13)
20	08:49			07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04		12:49 (13)
	16:19			17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35	17	13:06 (13)
21	08:47			07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05		12:50 (13)
	16:21			17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36	17	13:07 (13)
22	08:46			07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05		12:50 (13)
	16:23			17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	15:36	17	13:07 (13)
23	08:44			07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06		12:51 (13)
	16:25			17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37	17	13:08 (13)
24	08:42			07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06		12:52 (13)
	16:27			17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37	16	13:08 (13)
25	08:40			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06		12:52 (13)
	16:30			17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	16	13:08 (13)
26	08:39			07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07		12:53 (13)
	16:32			17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	16	13:09 (13)
27	08:37			07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07		12:53 (13)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:40	16	13:09 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07		12:54 (13)
	16:36			17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40	15	13:09 (13)
29	08:33				07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07		12:55 (13)
	16:39				19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41	15	13:10 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07		12:55 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42	14	13:09 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31		09:07		12:57 (13)
	16:43				19:59		22:07		21:44	20:26		16:40		15:44	12	13:09 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241	207		
Total, worst case		23													328	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.65													0.65	
Total reduction		0.08													0.08	
Total, real		2													25	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GG - Veczagme ž i A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:46	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:08	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GH - Veczagme ž i B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:46	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:49	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:08	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GI - Vedamurgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GJ - Veides

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:58	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:26	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GK - Vejini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May		June		July		August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34		04:33		04:26		05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07		22:09	23	21:21 (2)	29	21:41	20:23	18:59	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31		04:32		20:57 (2)		21:39	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10		22:10	25	21:22 (2)	30	21:00 (2)	06:23	07:27	07:36	08:41
3	09:06	08:23	07:14	06:48	05:29		04:31		20:57 (2)		21:01 (2)	20:21	18:57	16:36	15:42
	15:48	16:51	17:57	20:06	21:12		22:12	25	21:22 (2)	29	21:30 (2)	05:19	06:25	07:29	07:38
4	09:05	08:21	07:11	06:46	05:27		04:30		20:57 (2)		21:01 (2)	21:37	20:18	18:54	16:33
	15:50	16:53	17:59	20:08	21:14		22:13	26	21:23 (2)	29	21:30 (2)	05:22	06:27	07:31	07:40
5	09:05	08:19	07:09	06:43	05:24		04:29		20:56 (2)		21:02 (2)	21:35	20:15	18:51	16:31
	15:51	16:56	18:01	20:10	21:16		22:14	27	21:23 (2)	28	21:30 (2)	05:24	06:29	07:33	07:43
6	09:04	08:16	07:06	06:40	05:22		04:28		20:56 (2)		21:02 (2)	21:32	20:12	18:48	16:29
	15:53	16:58	18:03	20:12	21:18		22:16	27	21:23 (2)	28	21:30 (2)	05:26	06:32	07:35	07:45
7	09:03	08:14	07:03	06:37	05:20		04:27		20:56 (2)		21:03 (2)	21:30	20:10	18:46	16:27
	15:54	17:00	18:06	20:14	21:20		22:17	27	21:23 (2)	27	21:30 (2)	05:28	06:34	07:37	07:47
8	09:03	08:12	07:01	06:34	05:17		04:26		20:56 (2)		21:03 (2)	21:28	20:07	18:43	16:24
	15:56	17:03	18:08	20:17	21:23		22:18	28	21:24 (2)	26	21:29 (2)	05:30	06:36	07:40	07:50
9	09:02	08:10	06:58	06:32	05:15		04:25		20:56 (2)		21:03 (2)	21:25	20:04	18:40	16:22
	15:58	17:05	18:10	20:19	21:25		22:19	28	21:24 (2)	26	21:29 (2)	05:32	06:38	07:42	07:52
10	09:01	08:07	06:55	06:29	05:13		04:24		20:56 (2)		21:05 (2)	21:23	20:01	18:37	16:20
	15:59	17:07	18:12	20:21	21:27		22:20	29	21:25 (2)	24	21:29 (2)	05:34	06:40	07:44	07:54
11	09:00	08:05	06:52	06:26	05:11		04:24		20:56 (2)		21:05 (2)	21:21	19:58	18:35	16:18
	16:01	17:10	18:15	20:23	21:29		22:21	29	21:25 (2)	24	21:29 (2)	05:36	06:42	07:46	07:57
12	08:59	08:03	06:50	06:23	05:08		04:23		20:56 (2)		21:05 (2)	21:18	19:56	18:32	16:16
	16:03	17:12	18:17	20:25	21:31		22:22	30	21:26 (2)	23	21:28 (2)	05:38	06:44	07:48	07:59
13	08:58	08:00	06:47	06:21	05:06		04:23		20:57 (2)		21:06 (2)	21:16	19:53	18:29	16:14
	16:05	17:15	18:19	20:28	21:33		22:23	29	21:26 (2)	21	21:27 (2)	05:40	06:46	07:51	08:01
14	08:57	07:58	06:44	06:18	05:04		04:22		20:56 (2)		21:07 (2)	21:13	19:50	18:27	16:12
	16:07	17:17	18:21	20:30	21:35		22:24	30	21:26 (2)	20	21:27 (2)	05:43	06:48	07:53	08:03
15	08:56	07:55	06:41	06:15	05:02		04:22		20:56 (2)		21:08 (2)	21:11	19:47	18:24	16:10
	16:09	17:19	18:24	20:32	21:37		22:24	30	21:26 (2)	18	21:26 (2)	05:45	06:51	07:55	08:06
16	08:54	07:53	06:39	06:13	05:00		04:22		20:57 (2)		21:10 (2)	21:08	19:44	18:21	16:08
	16:11	17:22	18:26	20:34	21:39		22:25	30	21:27 (2)	16	21:26 (2)	05:47	06:53	07:57	08:08
17	08:53	07:51	06:36	06:10	04:58		04:21		20:57 (2)		21:10 (2)	21:06	19:42	18:19	16:06
	16:13	17:24	18:28	20:36	21:42		22:26	30	21:27 (2)	14	21:24 (2)	05:49	06:55	07:59	08:10
18	08:52	07:48	06:33	06:07	04:56		04:21		20:57 (2)		21:13 (2)	21:03	19:39	18:16	16:04
	16:15	17:26	18:30	20:39	21:44		22:26	30	21:27 (2)	10	21:23 (2)	05:51	06:57	08:02	08:12
19	08:50	07:46	06:30	06:05	04:54		04:21		20:57 (2)		21:16 (2)	21:01	19:36	18:13	16:02
	16:17	17:29	18:33	20:41	21:45		22:27	31	21:28 (2)	2	21:18 (2)	05:53	06:59	08:04	08:14
20	08:49	07:43	06:27	06:02	04:52		04:21		20:57 (2)			20:58	19:33	18:11	16:01
	16:19	17:31	18:35	20:43	21:47		22:27	31	21:28 (2)			05:55	07:01	08:06	08:17
21	08:47	07:40	06:25	05:59	04:50		04:21		20:57 (2)			20:56	19:30	18:08	15:59
	16:21	17:33	18:37	20:45	21:49		22:27	31	21:28 (2)			05:58	07:03	08:08	08:19
22	08:45	07:38	06:22	05:57	04:48		04:21		20:57 (2)			20:53	19:28	18:05	15:57
	16:23	17:36	18:39	20:47	21:51		22:27	31	21:28 (2)			06:00	07:05	08:11	08:21
23	08:44	07:35	06:19	05:54	04:47		04:22		20:58 (2)			20:50	19:25	18:03	15:56
	16:26	17:38	18:41	20:50	21:53		22:28	31	21:29 (2)			06:02	07:07	08:13	08:23
24	08:42	07:33	06:16	05:52	04:45		04:22		20:58 (2)			20:48	19:22	18:00	15:54
	16:28	17:40	18:44	20:52	21:55		22:28	31	21:29 (2)			06:04	07:10	08:15	08:25
25	08:40	07:30	06:13	05:49	04:43	21:05 (2)	04:22		20:59 (2)			20:45	19:19	17:58	15:53
	16:30	17:43	18:46	20:54	21:57	7 21:12 (2)	22:28	30	21:29 (2)			06:06	07:12	07:18	08:27
26	08:39	07:27	06:11	05:46	04:42	21:03 (2)	04:23		20:59 (2)			20:42	19:16	16:55	15:51
	16:32	17:45	18:48	20:56	21:59	12 21:15 (2)	22:28	30	21:29 (2)			06:08	07:14	07:20	08:29
27	08:37	07:25	06:08	05:44	04:40	21:00 (2)	04:23		20:59 (2)			20:40	19:13	16:53	15:50
	16:35	17:47	18:50	20:59	22:00	15 21:15 (2)	22:27	31	21:30 (2)			06:10	07:16	07:22	08:31
28	08:35	07:22	06:05	05:41	04:39	21:00 (2)	04:24		20:59 (2)			20:37	19:11	16:50	15:48
	16:37	17:50	18:52	21:01	22:02	17 21:17 (2)	22:27	30	21:29 (2)			06:13	07:18	07:24	08:33
29	08:33		07:02	05:39	04:37	20:59 (2)	04:25		21:00 (2)			20:34	19:08	16:48	15:47
	16:39		19:55	21:03	22:04	19 21:18 (2)	22:27	30	21:30 (2)			06:15	07:20	07:27	08:35
30	08:31		06:59	05:36	04:36	20:58 (2)	04:25		21:00 (2)			20:32	19:05	16:45	15:46
	16:41		19:57	21:05	22:05	21 21:19 (2)	22:26	30	21:30 (2)			06:17	07:22	07:29	08:37
31	08:29		06:57		04:34	20:58 (2)						20:29	19:02	16:43	15:45
	16:44		19:59		22:07	22 21:20 (2)			05:13			06:19		07:31	
Potential sun hours	227	262	365	429	515		539		538		474	386	321	241	207
Total, worst case					113		870		424						
Sun reduction					0.58		0.53		0.57						
Oper. time red.					0.93		0.93		0.93						
Wind dir. red.					0.63		0.63		0.63						
Total reduction					0.34		0.31		0.33						
Total, real					38		270		140						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GL - Viskalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:48	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GM - Viskalni 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GN - Viksnas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:06	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:21	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:17	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:11	07:16	07:22	08:32	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:35	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GO - Zaki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March	April	May	June	July	August	September	October		November		December
1	09:07		08:27	09:08 (13)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24		07:34	08:43 (13)	08:39
	15:45		16:46 22	09:30 (13)	17:52	20:01	21:08	22:09	22:26	21:41	20:23	18:59		16:38 13	08:56 (13)	15:43
2	09:06		08:25	09:07 (13)	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27		07:36	08:41 (13)	08:41
	15:47		16:48 23	09:30 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57		16:36 16	08:57 (13)	15:42
3	09:06		08:23	09:08 (13)	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29		07:38	08:40 (13)	08:43
	15:48		16:51 22	09:30 (13)	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33 19	08:59 (13)	15:41
4	09:06		08:21	09:08 (13)	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31		07:41	08:39 (13)	08:44
	15:49		16:53 23	09:31 (13)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31 20	08:59 (13)	15:40
5	09:05		08:19	09:08 (13)	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33		07:43	08:39 (13)	08:46
	15:51		16:55 22	09:30 (13)	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48		16:29 21	09:00 (13)	15:39
6	09:04		08:17	09:09 (13)	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35		07:45	08:38 (13)	08:48
	15:52		16:58 21	09:30 (13)	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46		16:26 22	09:00 (13)	15:39
7	09:04		08:14	09:09 (13)	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37		07:48	08:38 (13)	08:49
	15:54		17:00 20	09:29 (13)	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43		16:24 23	09:01 (13)	15:38
8	09:03		08:12	09:11 (13)	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40		07:50	08:38 (13)	08:51
	15:56		17:02 18	09:29 (13)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22 23	09:01 (13)	15:37
9	09:02		08:10	09:11 (13)	06:58	06:32	05:15	04:25	04:34	05:32	06:38	07:42		07:52	08:38 (13)	08:52
	15:57		17:05 16	09:27 (13)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20 23	09:01 (13)	15:37
10	09:01		08:07	09:14 (13)	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44		07:54	08:39 (13)	08:54
	15:59		17:07 12	09:26 (13)	18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:35		16:18 22	09:01 (13)	15:36
11	09:00		08:05	09:16 (13)	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46		07:57	08:39 (13)	08:55
	16:01		17:10 7	09:23 (13)	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32		16:16 21	09:00 (13)	15:36
12	08:59		08:03		06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48		07:59	08:40 (13)	08:56
	16:03		17:12		18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29		16:14 20	09:00 (13)	15:35
13	08:58		08:00		06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01	08:40 (13)	08:58
	16:04		17:14		18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26		16:12 19	08:59 (13)	15:35
14	08:57		07:58		06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53		08:04	08:41 (13)	08:59
	16:06		17:17		18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10 18	08:59 (13)	15:35
15	08:56		07:56		06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55		08:06	08:44 (13)	09:00
	16:08		17:19		18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21		16:08 15	08:59 (13)	15:35
16	08:55		07:53		06:39	06:12	05:00	04:21	04:45	05:47	06:53	07:57		08:08	08:46 (13)	09:01
	16:10		17:21		18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18		16:06 12	08:58 (13)	15:35
17	08:53		07:51		06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10	08:49 (13)	09:02
	16:12		17:24		18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16		16:04 8	08:57 (13)	15:35
18	08:52		07:48		06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02		08:12	08:51 (13)	09:03
	16:14		17:26		18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13		16:02 3	08:54 (13)	15:35
19	08:50		07:46		06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04		08:15		09:03
	16:17		17:29		18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10		16:00		15:35
20	08:49		07:43		06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06		08:17		09:04
	16:19		17:31		18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08		15:59		15:35
21	08:47		07:40		06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08		08:19		09:05
	16:21		17:33		18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05		15:57		15:36
22	08:46		07:38		06:22	05:57	04:48	04:21	04:55	05:59	07:05	08:11		08:21		09:05
	16:23		17:36		18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03		15:55		15:36
23	08:44		07:35		06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13		08:23		09:06
	16:25		17:38		18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00		15:54		15:37
24	08:42	09:17 (13)	07:33		06:16	05:51	04:45	04:21	04:59	06:04	07:10	08:15		08:25		09:06
	16:27 3	09:20 (13)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58		15:52		15:37
25	08:41	09:15 (13)	07:30		06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18		08:27		09:07
	16:30 8	09:23 (13)	17:43		18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55		15:51		15:38
26	08:39	09:13 (13)	07:28		06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20		08:29		09:07
	16:32 12	09:25 (13)	17:45		18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53		15:49		15:39
27	08:37	09:11 (13)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22		08:31		09:07
	16:34 15	09:26 (13)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50		15:48		15:40
28	08:35	09:09 (13)	07:22		06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24		08:33		09:07
	16:37 18	09:27 (13)	17:50		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48		15:47		15:41
29	08:33	09:08 (13)			07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27		08:35		09:07
	16:39 20	09:28 (13)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45		15:45		15:42
30	08:31	09:08 (13)			06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29		08:37		09:07
	16:41 21	09:29 (13)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43		15:44		15:43
31	08:29	09:08 (13)			06:57		04:34		05:13	06:19		07:31	08:45 (13)			09:07
	16:44 21	09:29 (13)			19:59		22:07		21:44	20:26		16:40 8	08:53 (13)			15:44
Potential sun hours	227		262		365	429	516	539	539	475	386	321		241		207
Total, worst case	118		206									8		318		
Sun reduction	0.13		0.22									0.31		0.15		
Oper. time red.	0.93		0.93									0.93		0.93		
Wind dir. red.	0.64		0.64									0.64		0.64		
Total reduction	0.08		0.13									0.18		0.09		
Total, real	9		27									1		29		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GP - Zalu iela 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GQ - Zalu iela 3

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:51	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GR - Zalu iela 5

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:51	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GS - Zalu iela 7

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:53	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:28	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:58	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:30	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:17	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:03	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:16	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:23	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:05	15:34
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:15	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:51	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:20	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:21	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:53	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:45	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:50	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:39	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:28	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:36	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:56	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:43
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GT - Zemzari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:45	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:11	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	08:21	07:12	06:46	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:45
	15:50	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:30	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:39
6	09:04	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58
	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:43	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13	09:03
	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:08	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:38
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28	09:07
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
26	08:39	07:28	06:11	05:46	04:41	04:23	05:03	06:08	07:14	07:20	08:30	09:07
	16:32	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34	09:07
	16:37	17:50	18:52	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:57		04:34		05:13	06:19		07:32		09:07
	16:44		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GU - Zitaru iela 3
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:48	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:07	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GV - Zitaru iela 4

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:25	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GW - Zitaru iela 5
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:26	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:29	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GX - Zitaru iela 6

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:26	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:41	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GY - Zitaru iela 7

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:26	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:42	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:35	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:45	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: GZ - Zitaru iela 8

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:33	04:32	04:26	05:15	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36	08:41
	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:42
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:28	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:57	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	05:17	04:25	04:33	05:29	06:35	07:39	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:14	04:24	04:34	05:31	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	15:35
12	08:59	08:03	06:49	06:23	05:08	04:22	04:38	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:04	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:21	04:42	05:42	06:48	07:53	08:03	08:58
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:54	07:59	08:10	09:01
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:20	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:18	17:31	18:34	20:43	21:47	22:27	22:05	20:55	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:02	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27	09:06
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:10	16:50	15:48	15:39
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:42	15:44	15:42
31	08:29		06:56		04:34		05:13	06:18		07:31		09:07
	16:43		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar

Shadow receptor: HA - Zvaigznes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

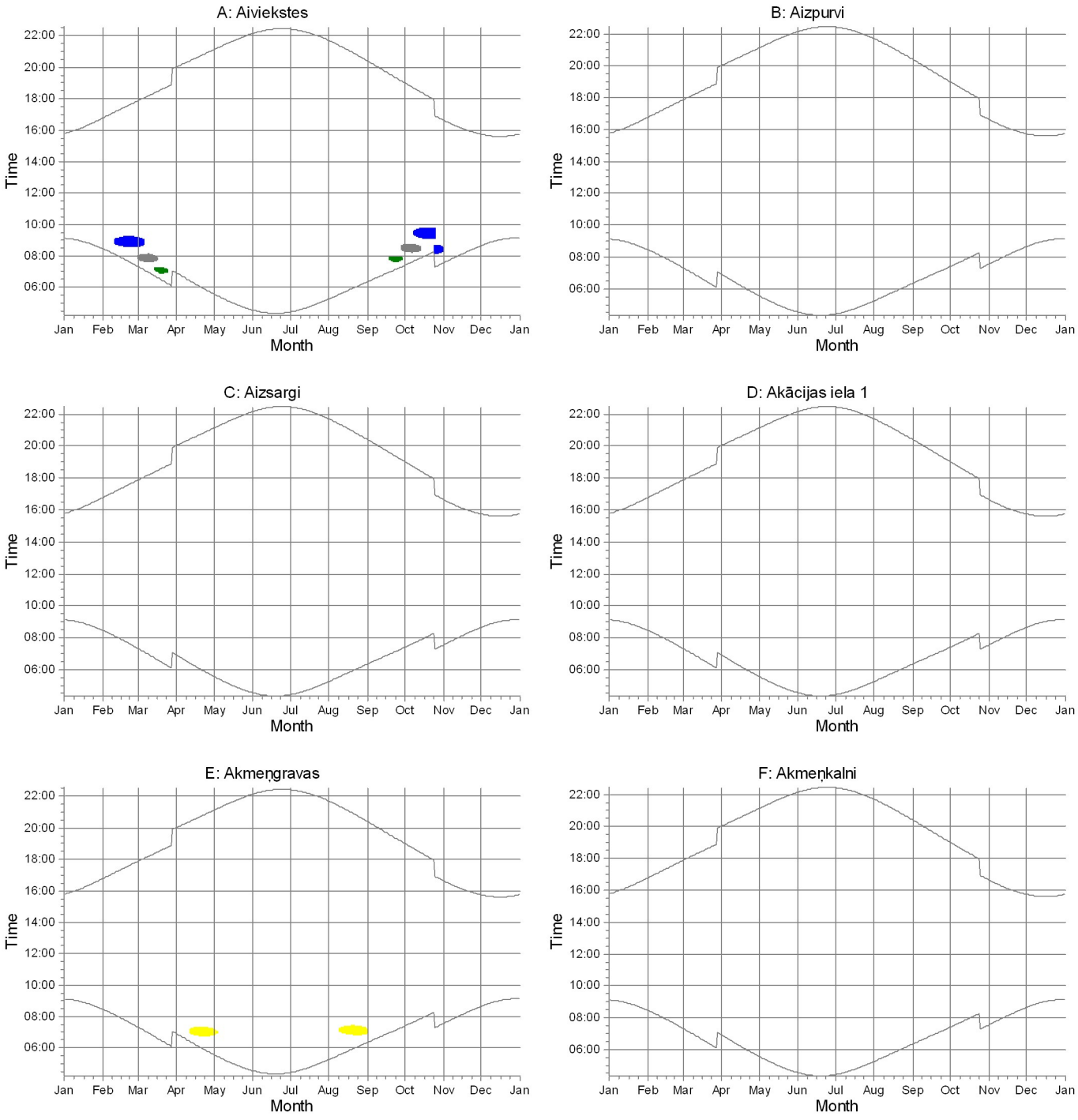
	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:13	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

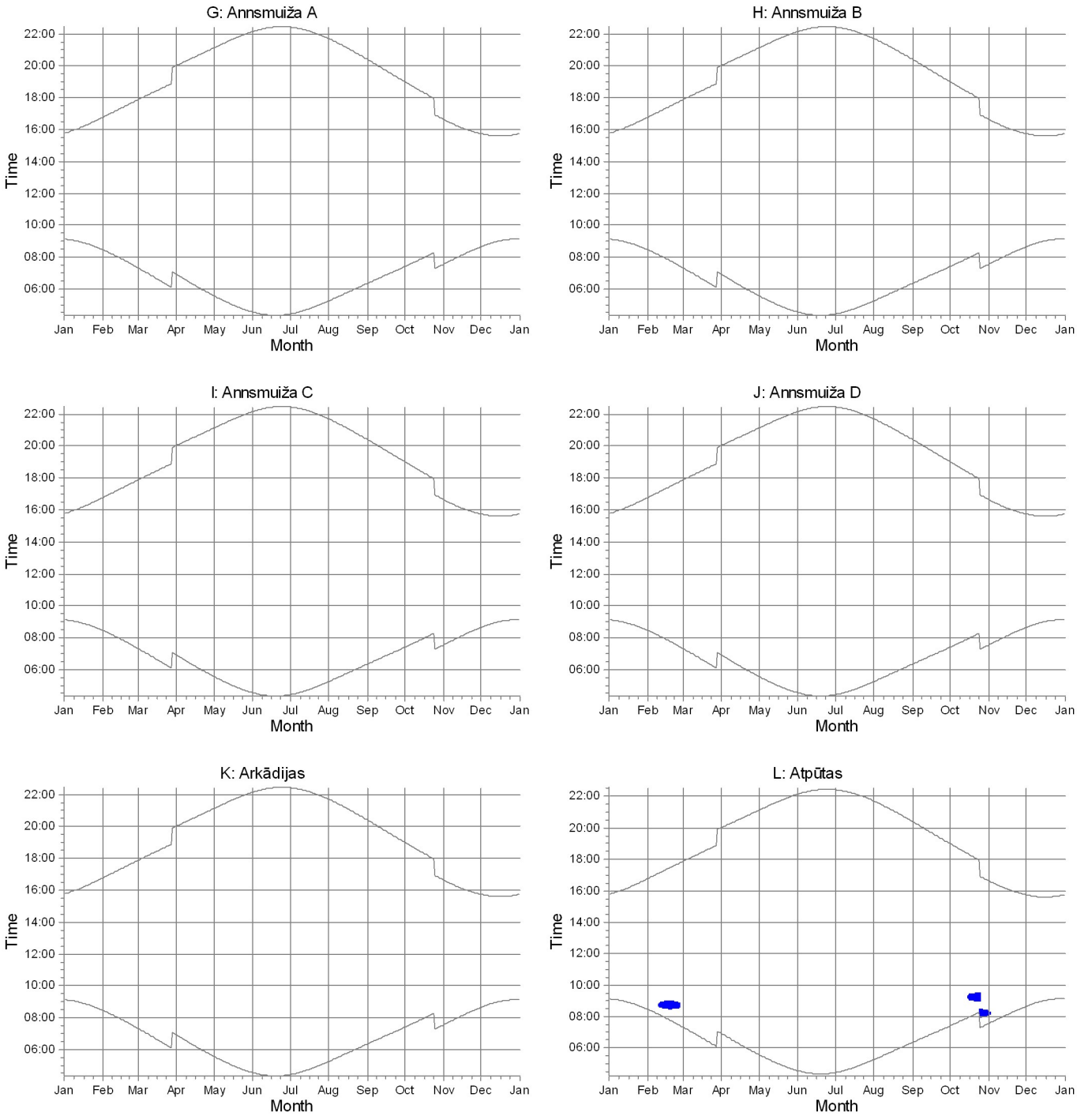


WTGs

1: VES "Senlejas" 2: Z1 3: Z2 4: Z3

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

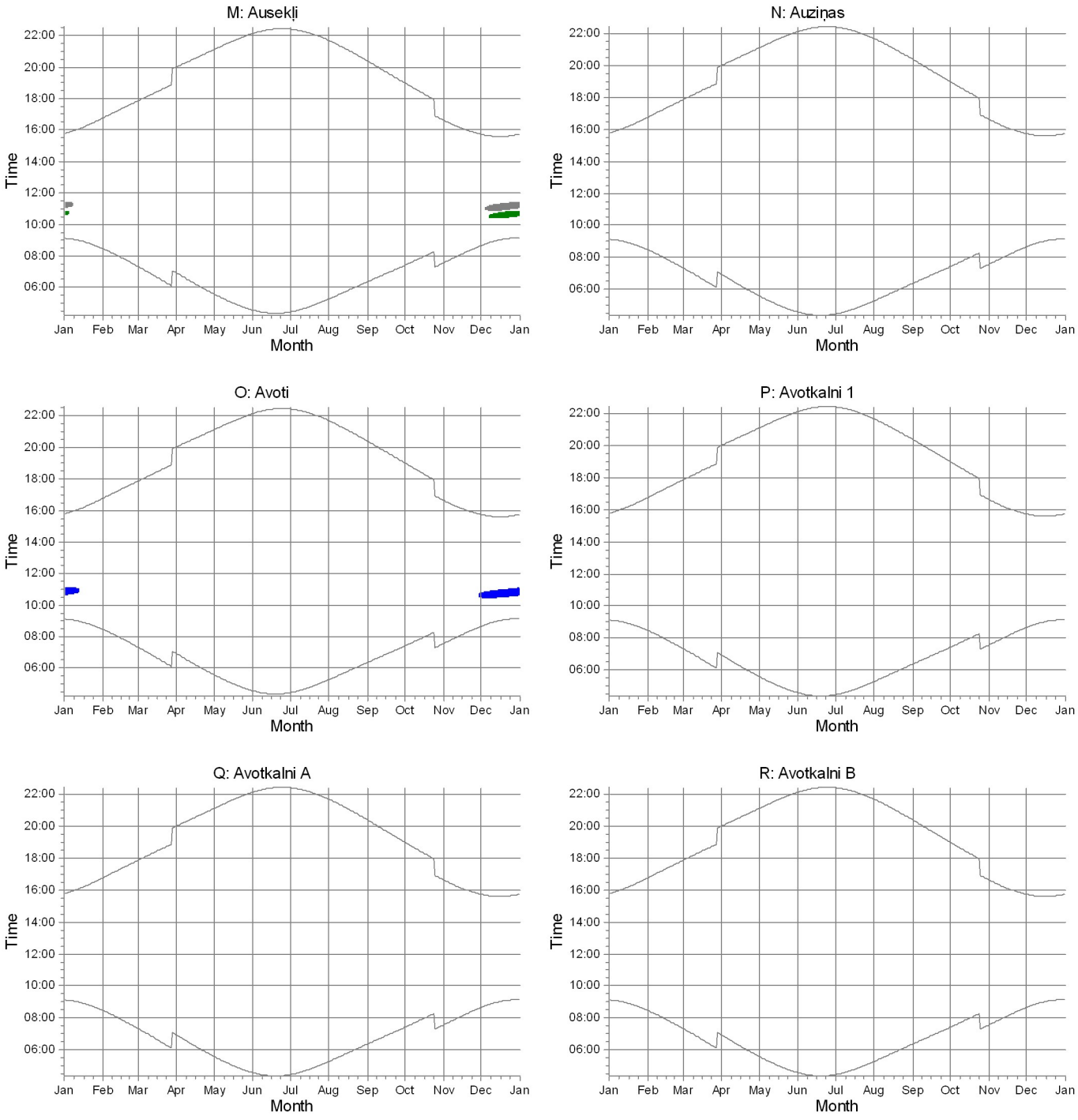


WTGs

3: Z2

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

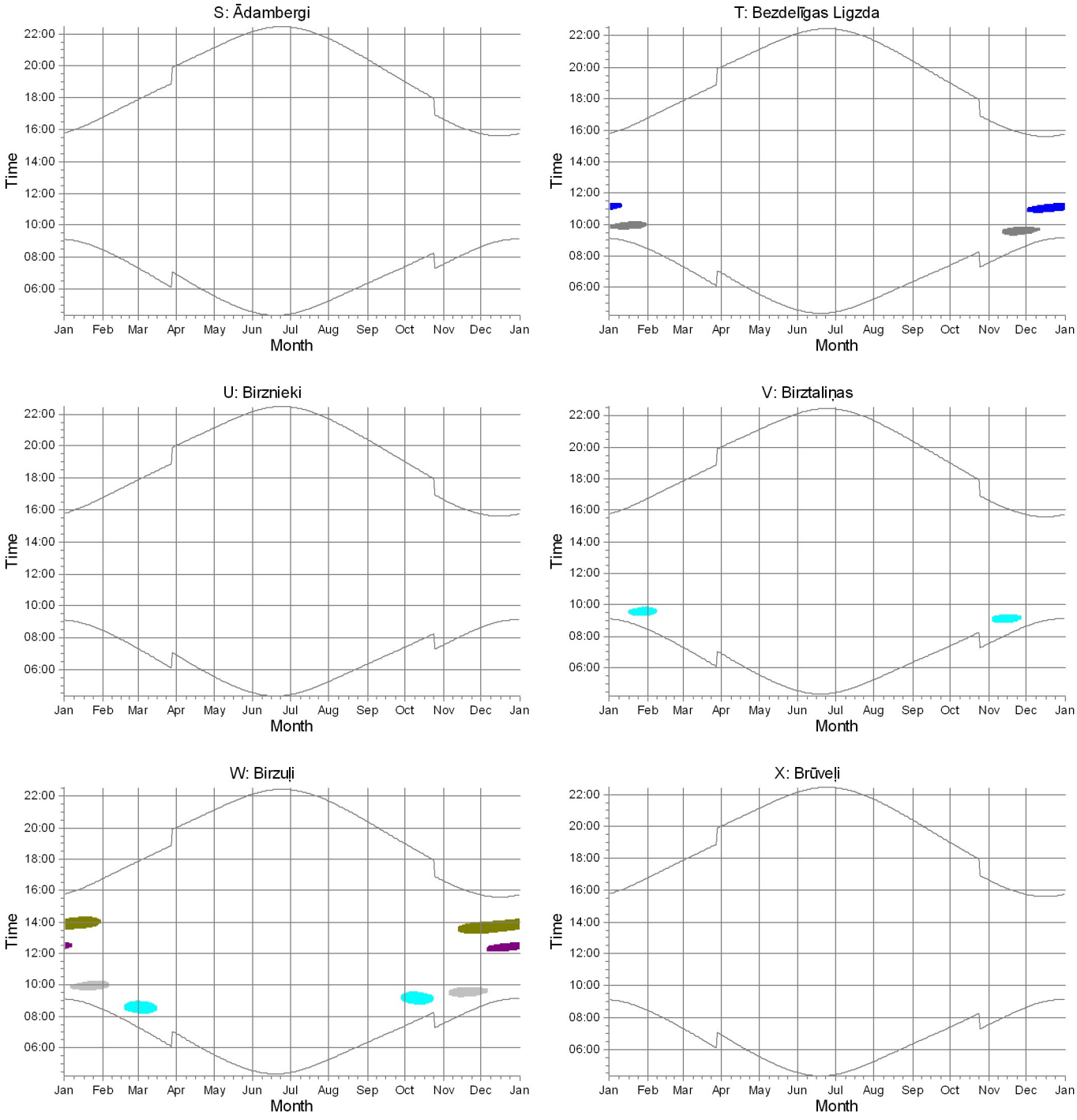


WTGs

1: VES "Senlejas" 3: Z2 4: Z3

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

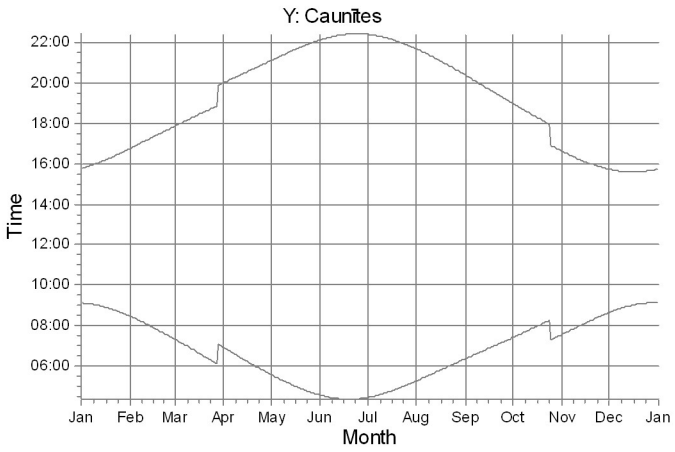


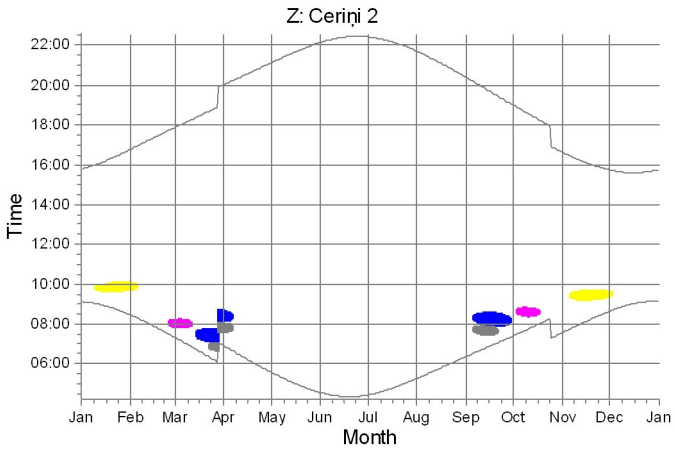
WTGs

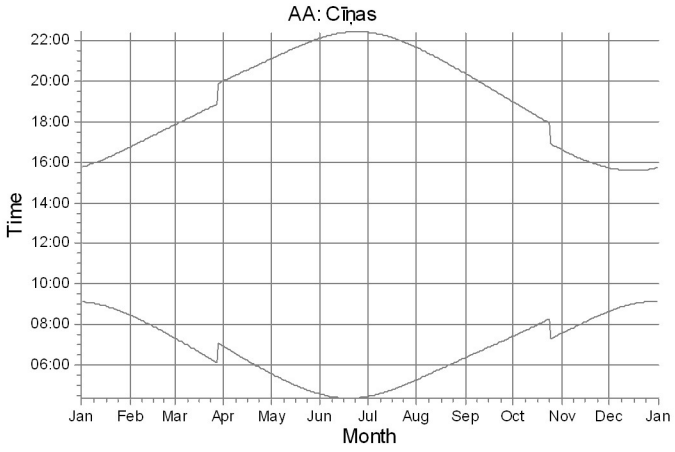
3: Z2	10: Z12	12: Z16
4: Z3	11: Z13	13: Z17

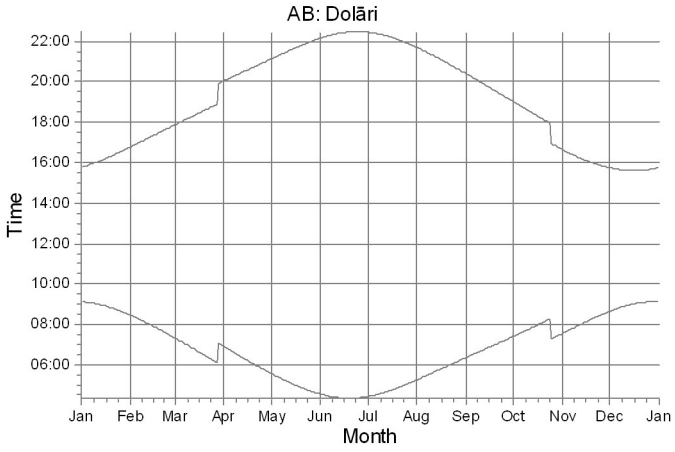
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

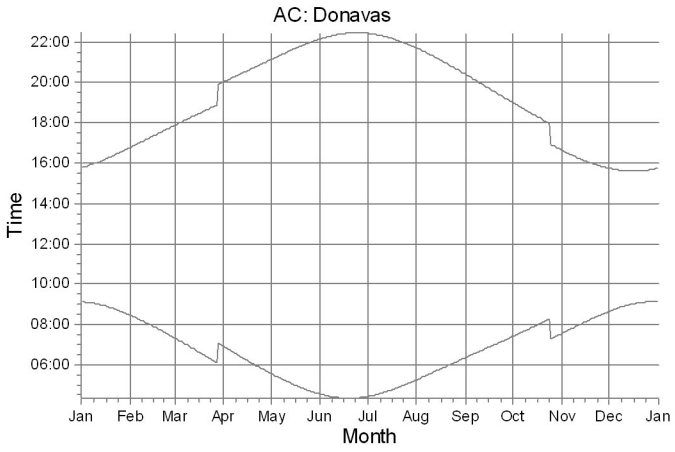
SHADOW - Calendar, graphical

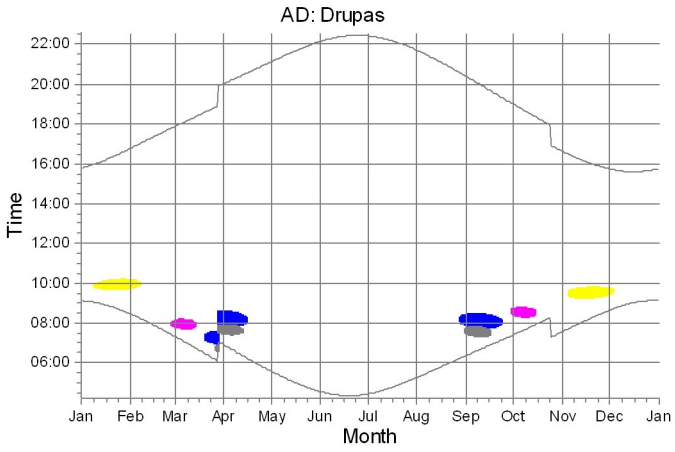










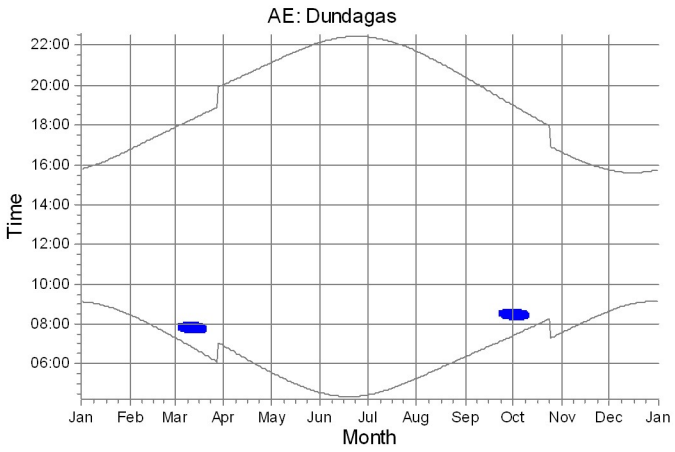


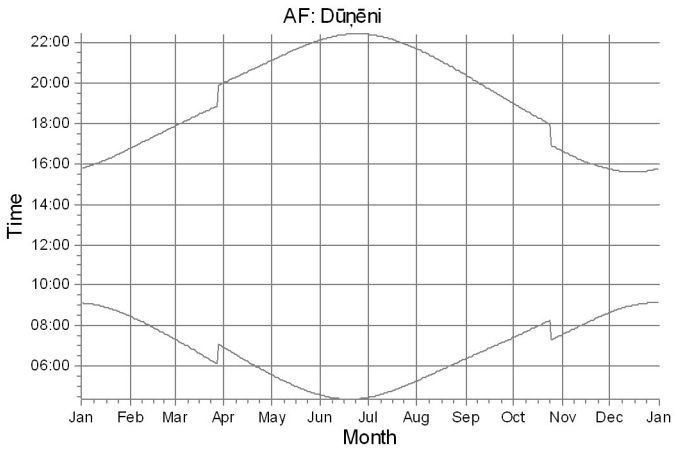
WTGs

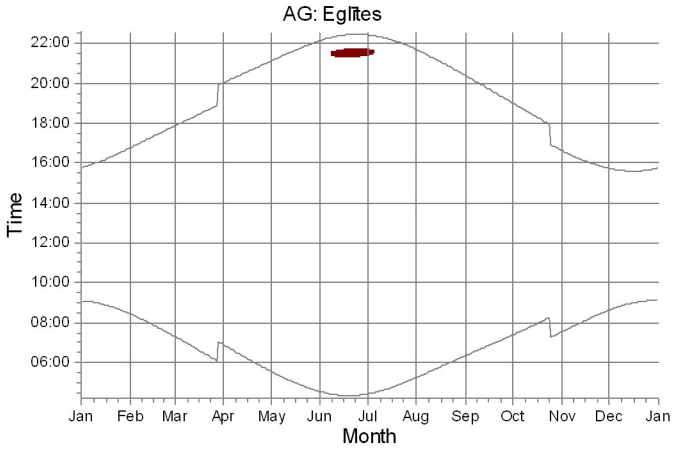
2: Z1 3: Z2 4: Z3 5: Z4

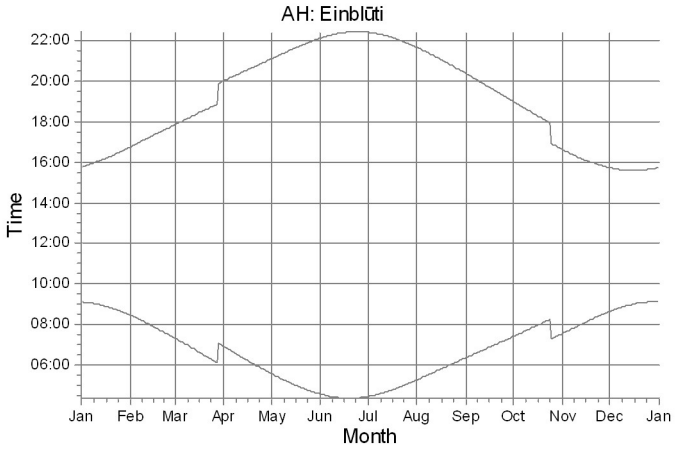
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

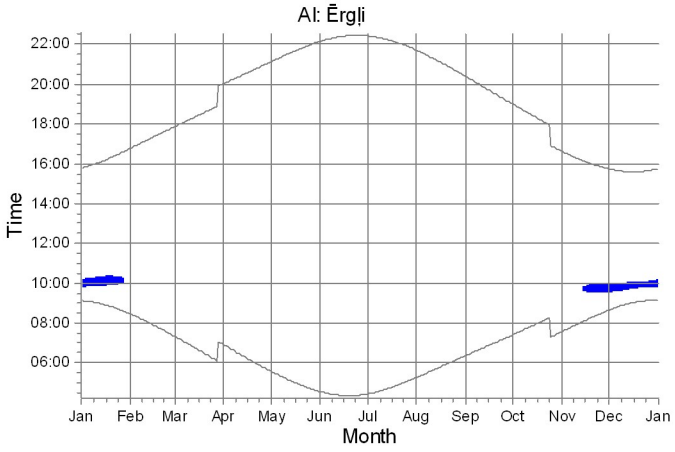
SHADOW - Calendar, graphical

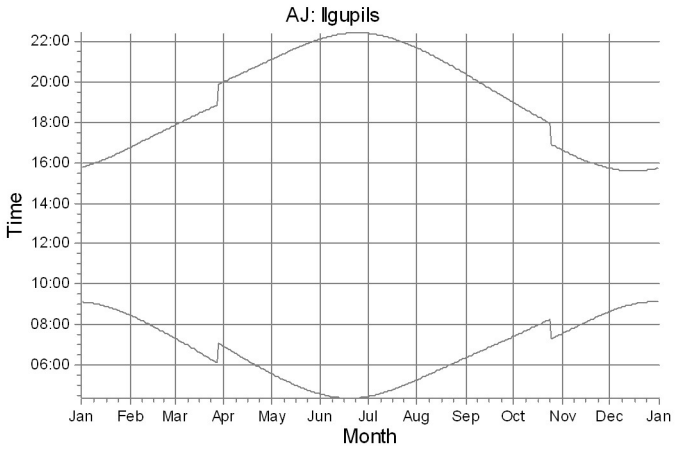












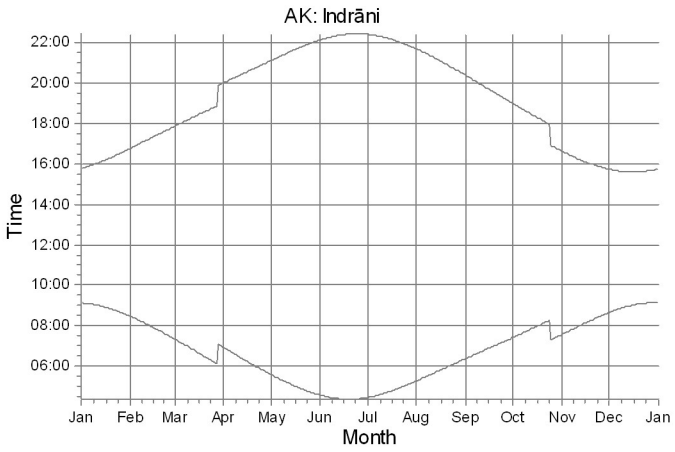
WTGs

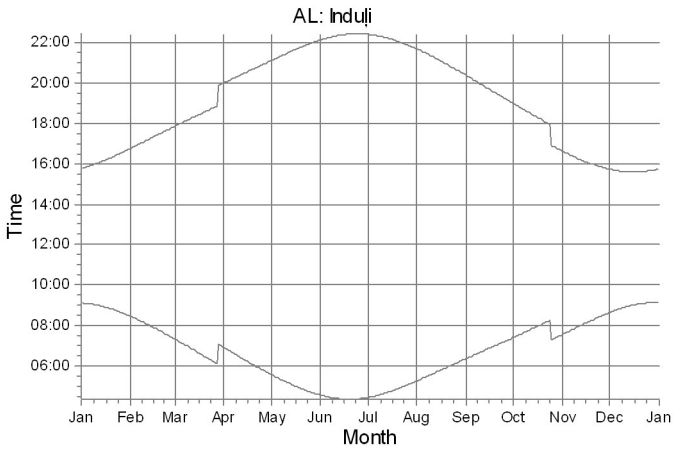
3: Z2

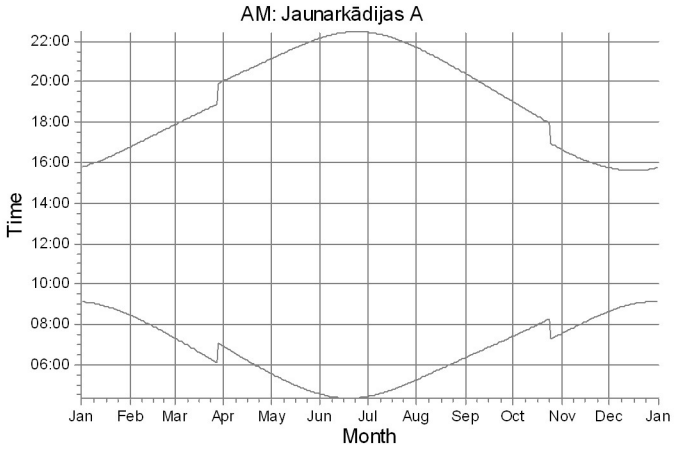
8: Z9

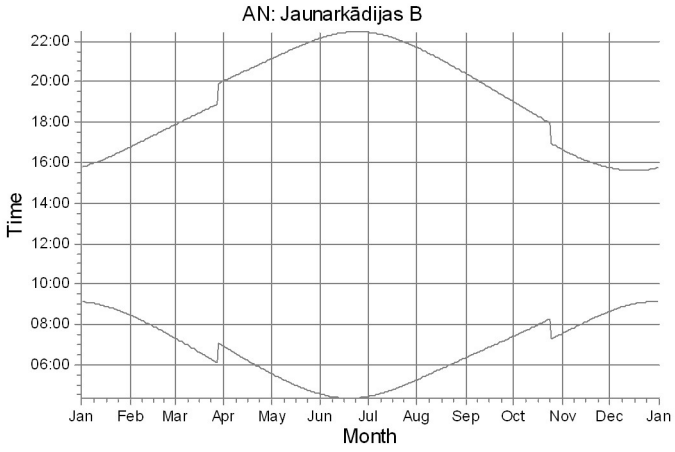
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

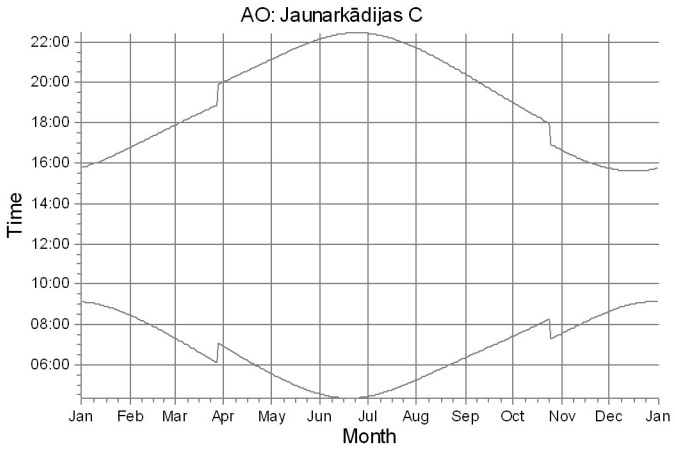
SHADOW - Calendar, graphical

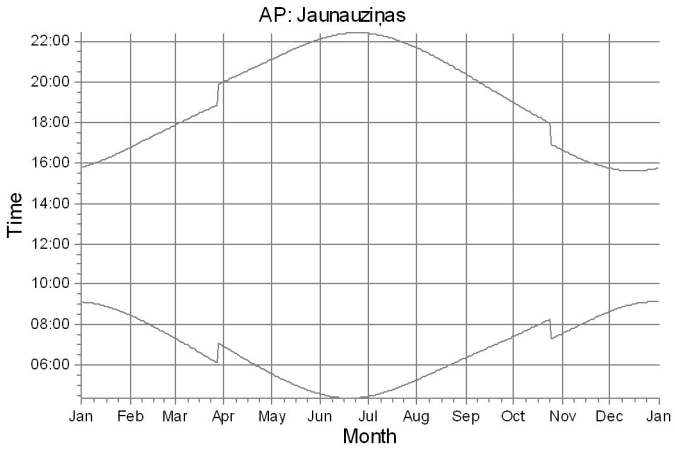








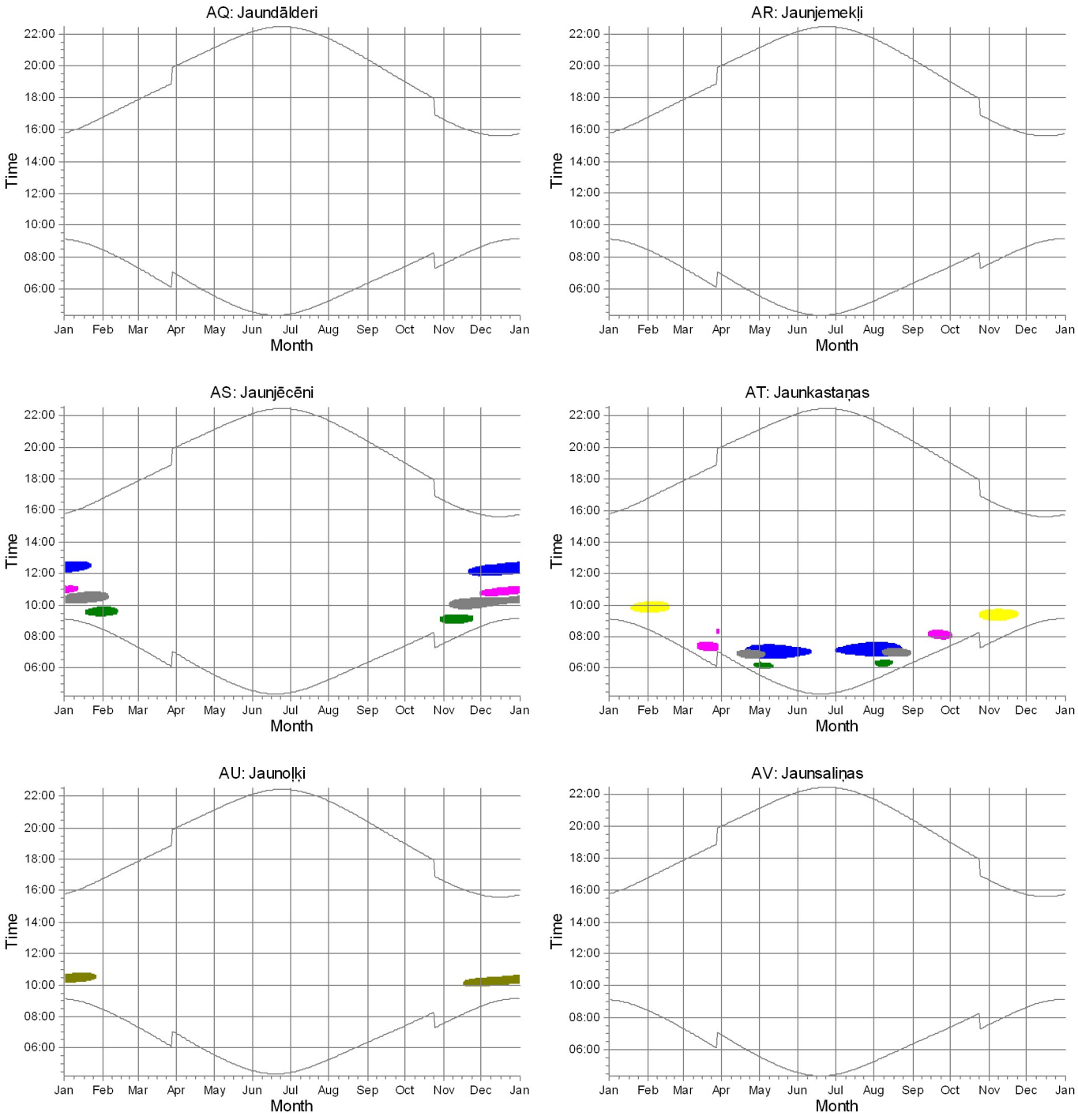




WTGs

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

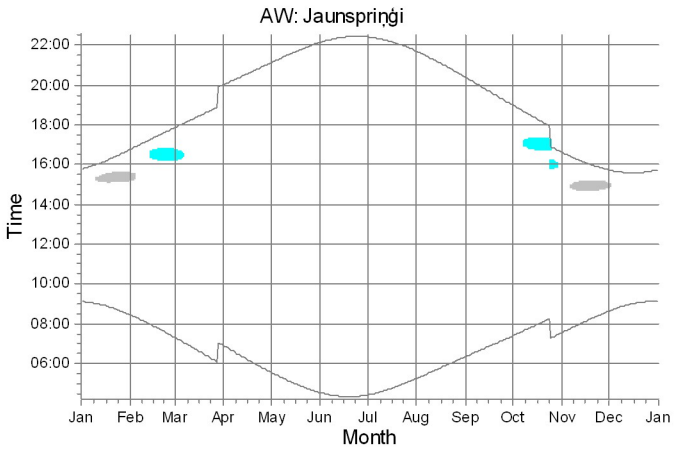


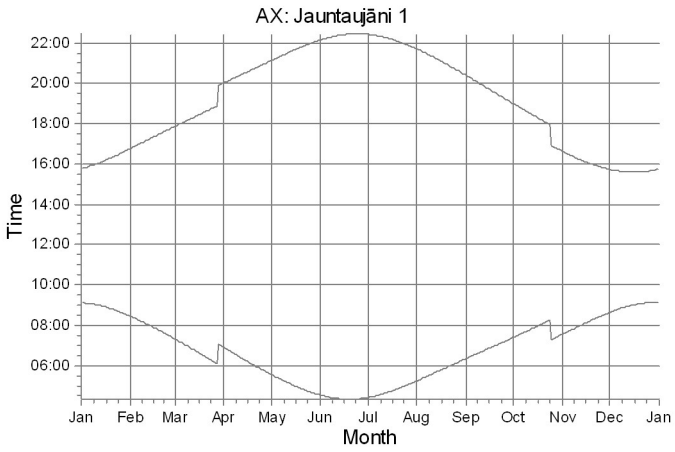
WTGs

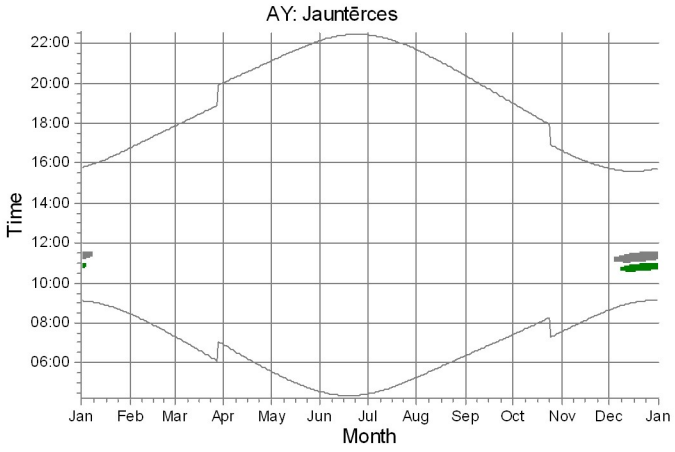
1: VES "Senlejas"	3: Z2	5: Z4
2: Z1	4: Z3	10: Z12

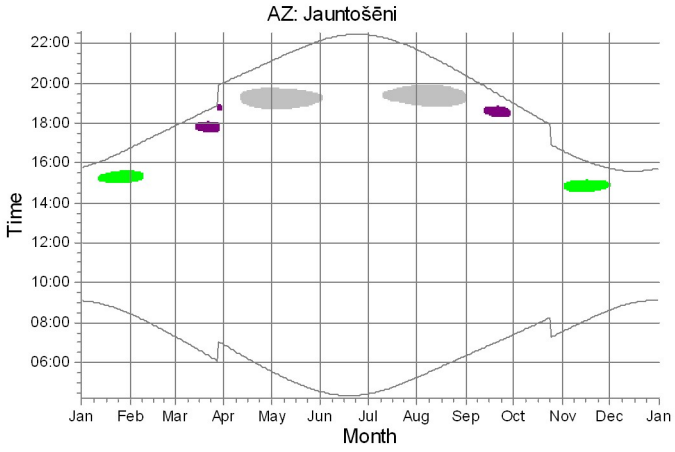
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

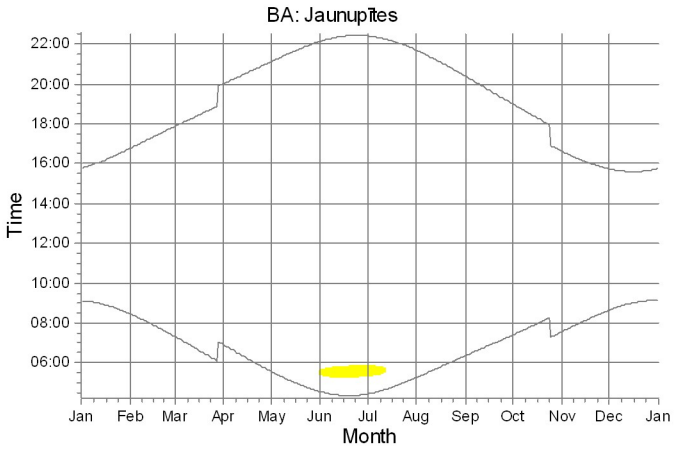
SHADOW - Calendar, graphical

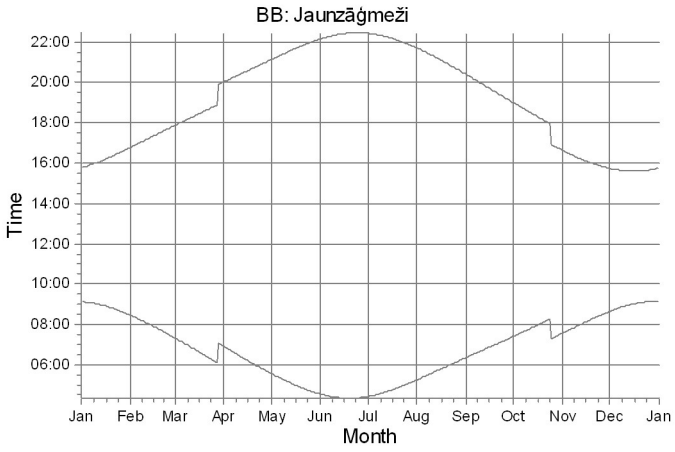










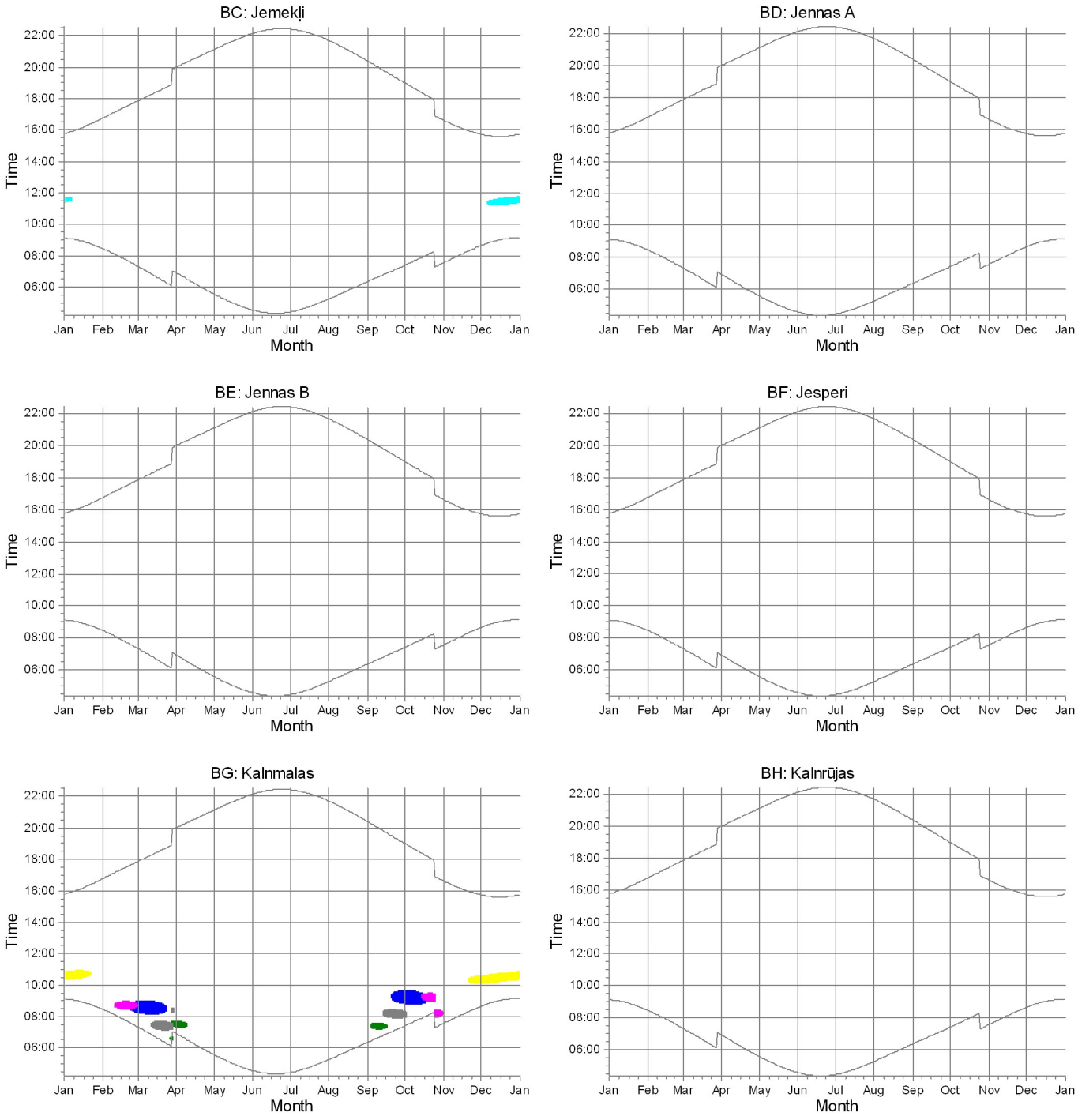


WTGs

1: VES "Senlejas"	4: Z3	11: Z13	13: Z17
2: Z1	9: Z10	12: Z16	

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

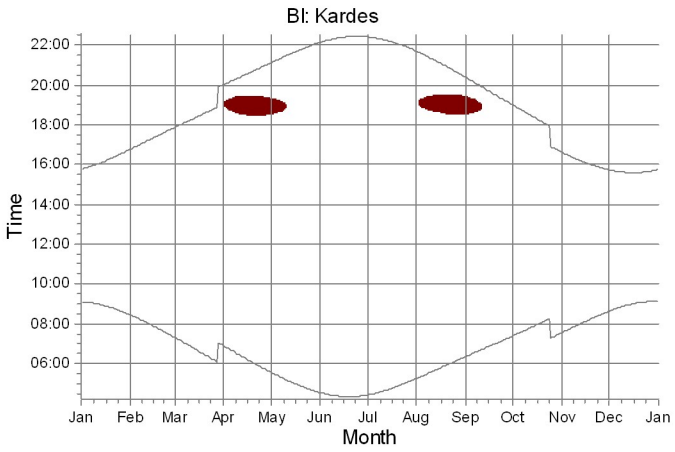


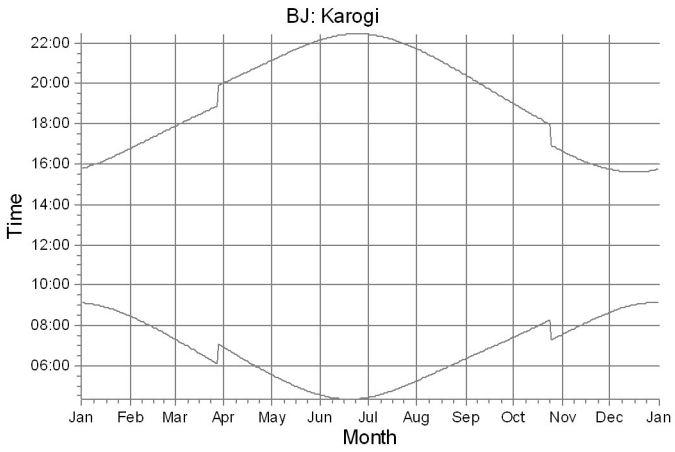
WTGs

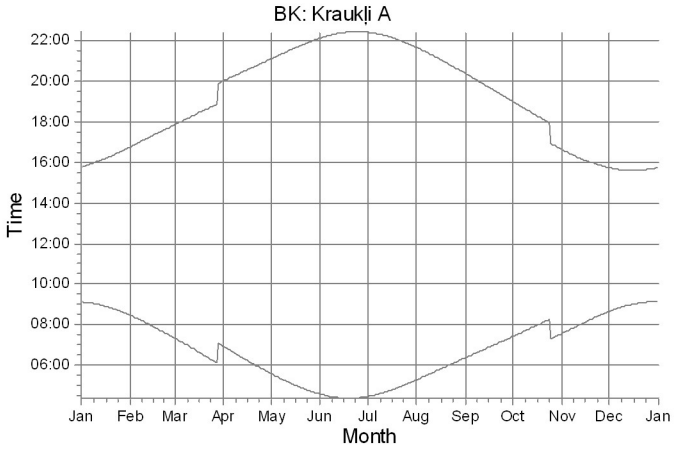
1: VES "Senlejas"	3: Z2	5: Z4
2: Z1	4: Z3	13: Z17

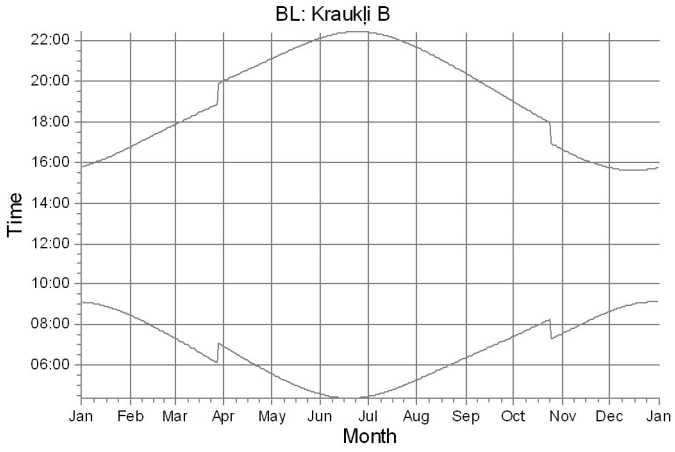
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

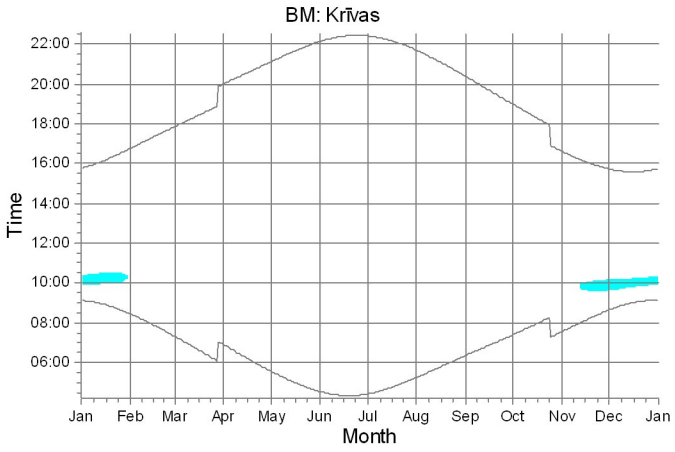
SHADOW - Calendar, graphical

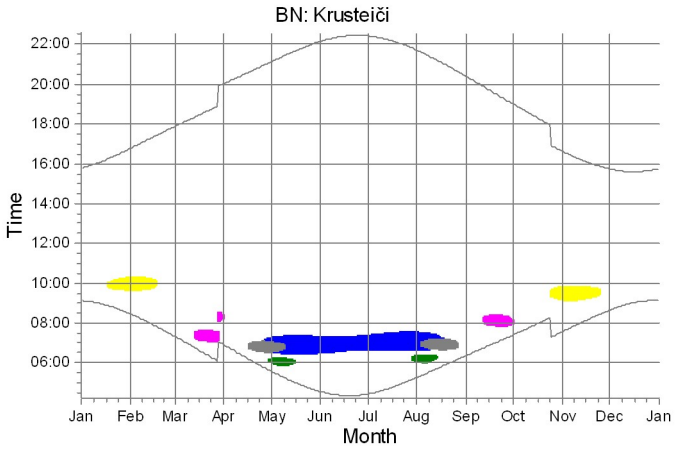










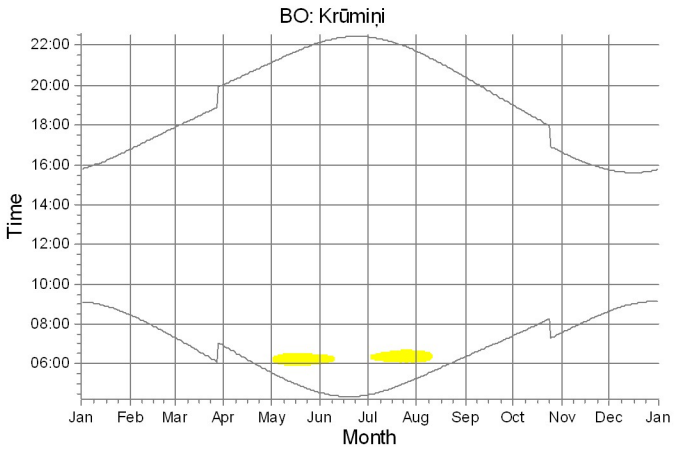


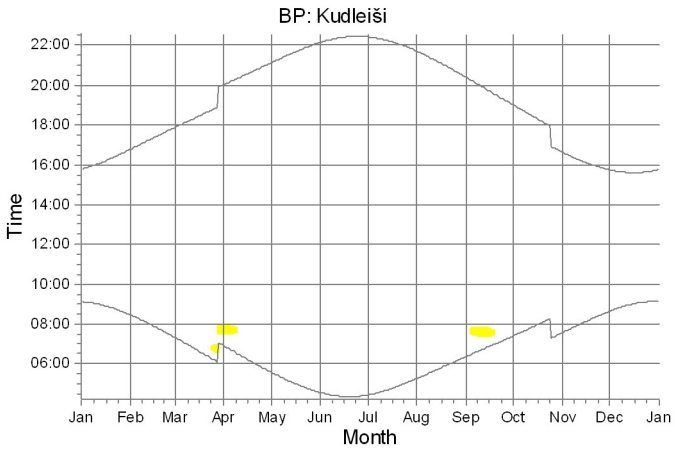
WTGs

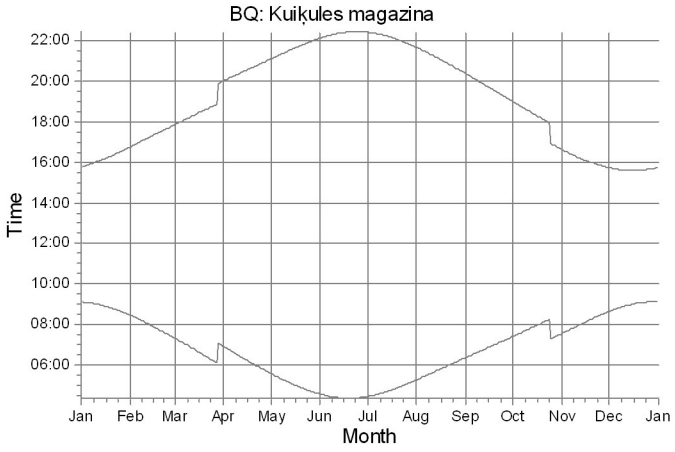
1: VES "Senlejas"	3: Z2	5: Z4	13: Z17
2: Z1	4: Z3	8: Z9	

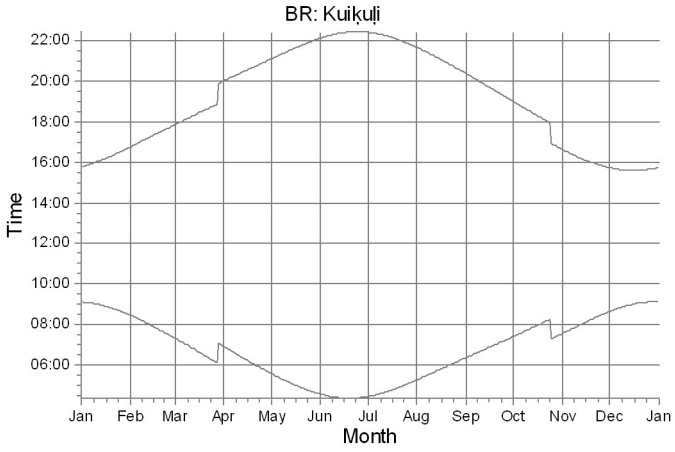
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

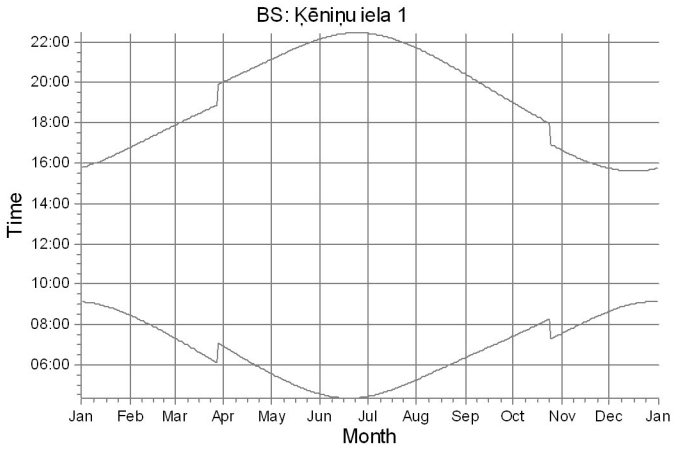
SHADOW - Calendar, graphical

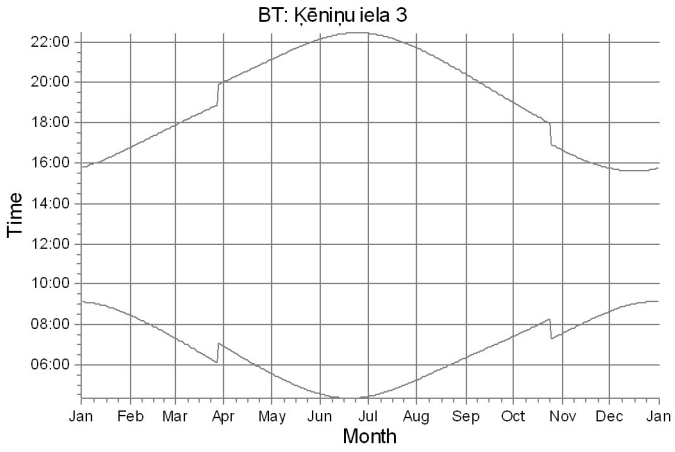










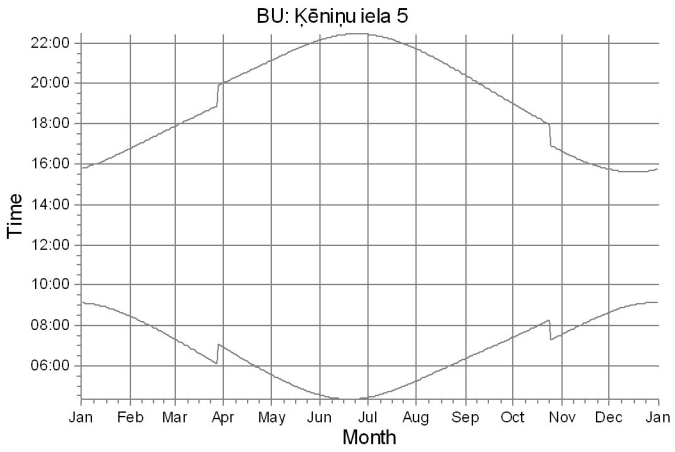


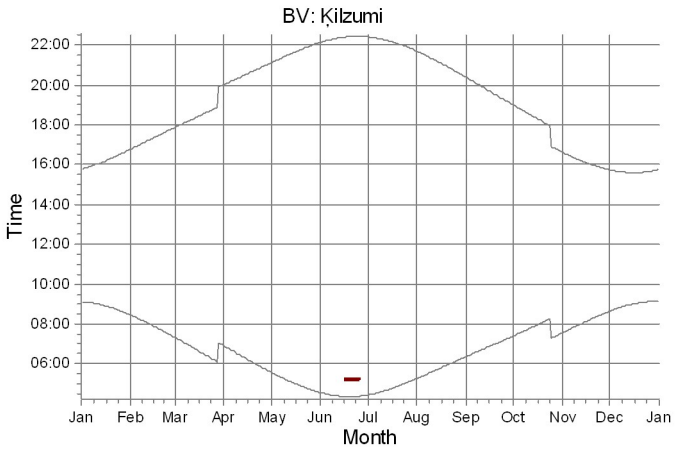
WTGs

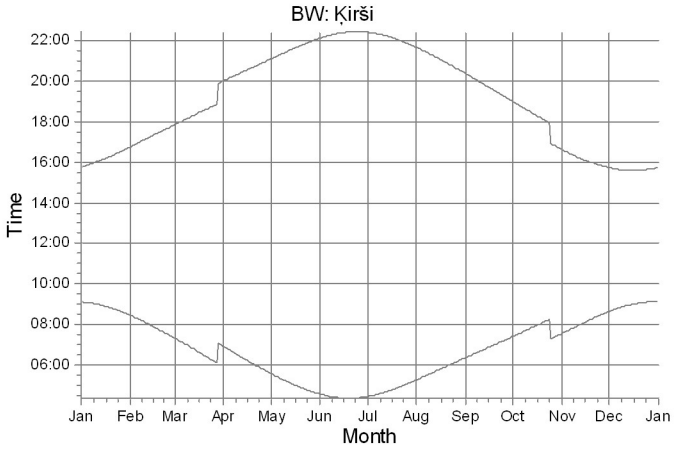
2: Z1

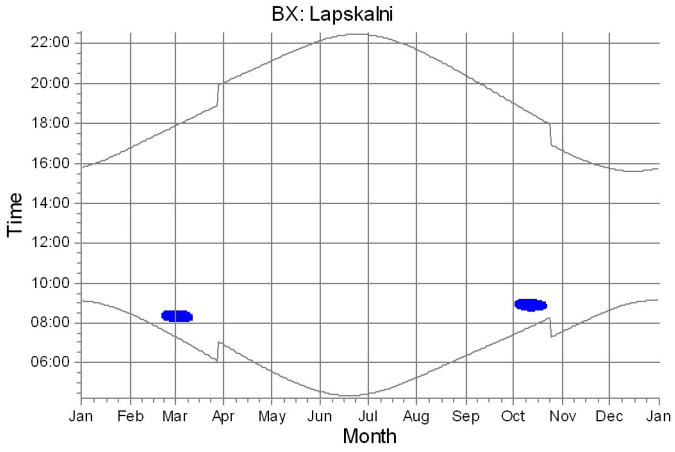
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

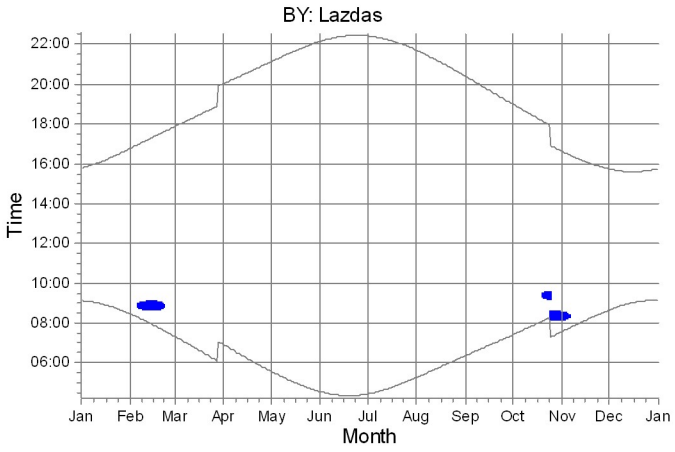
SHADOW - Calendar, graphical

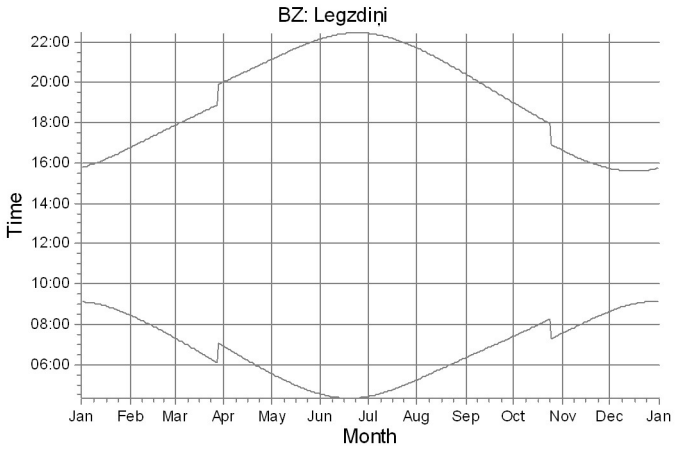












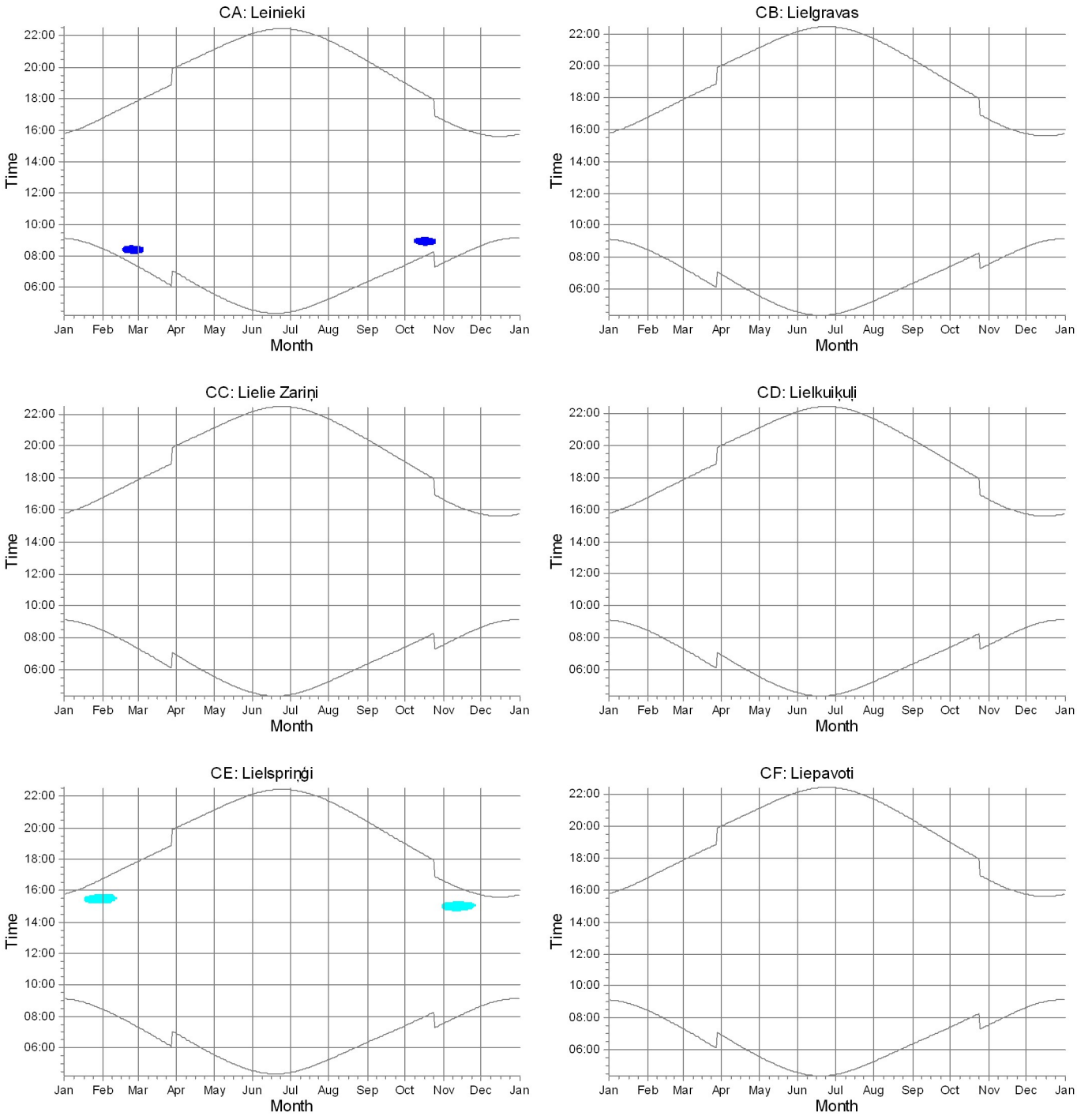
WTGs

3: Z2

8: Z9

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical



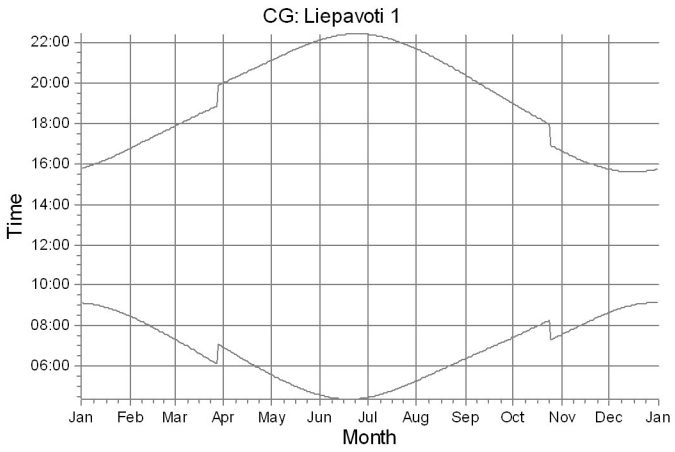
WTGs

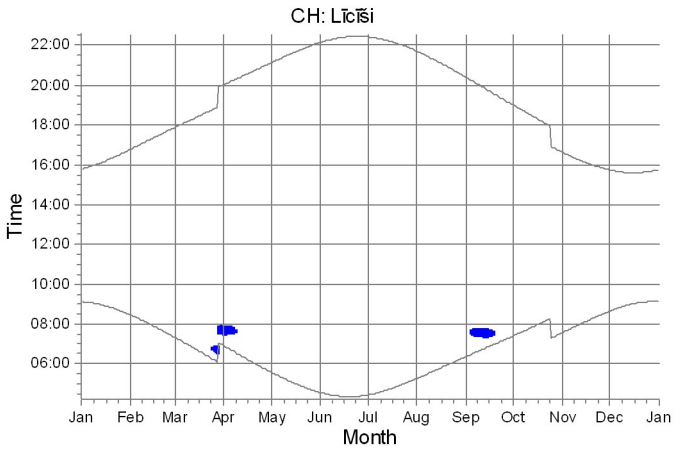
3: Z2

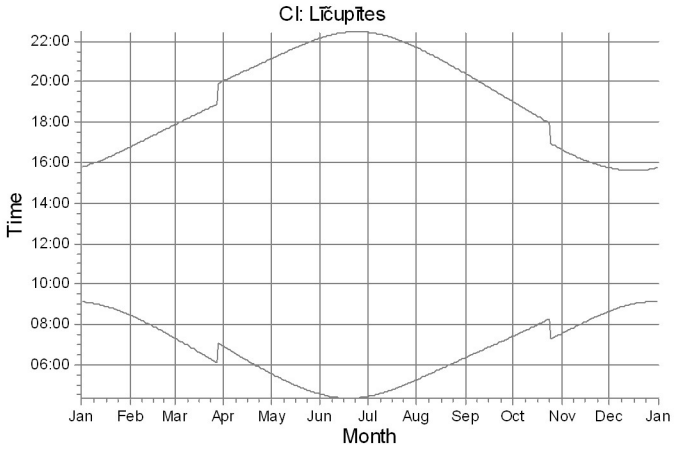
13: Z17

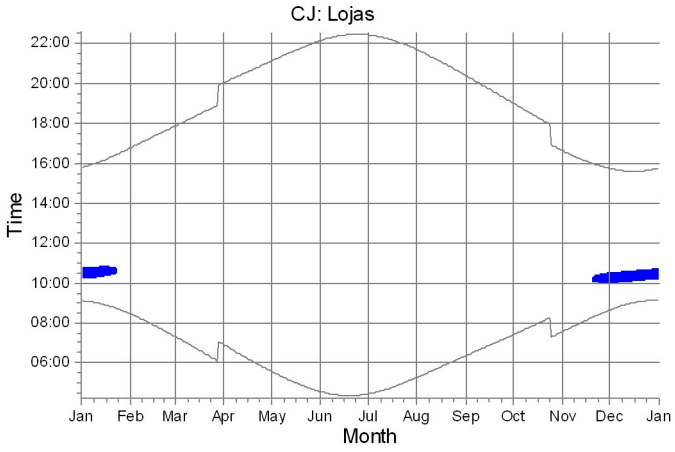
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

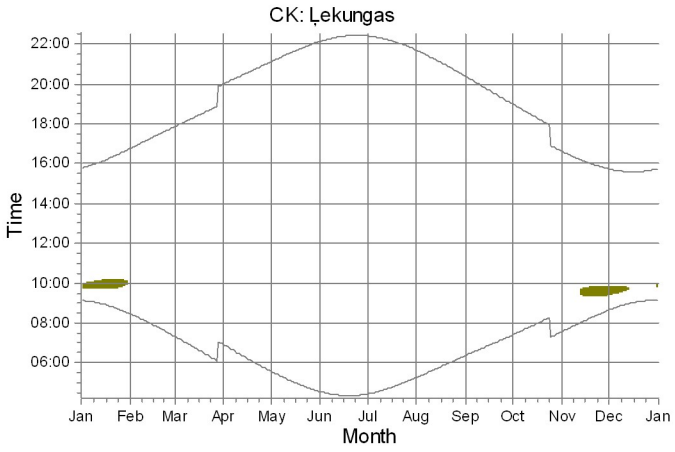
SHADOW - Calendar, graphical

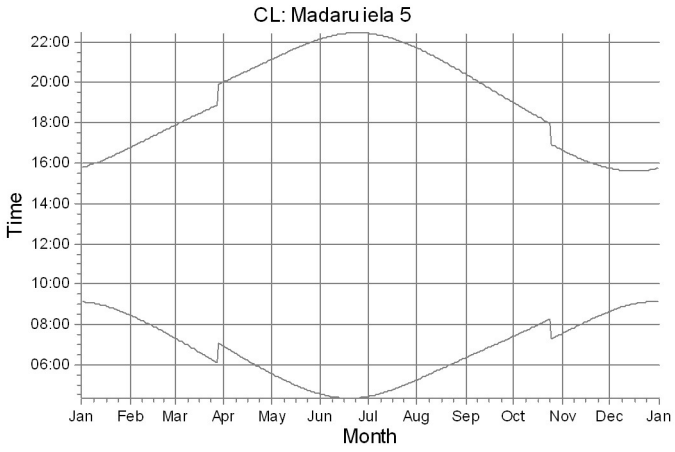












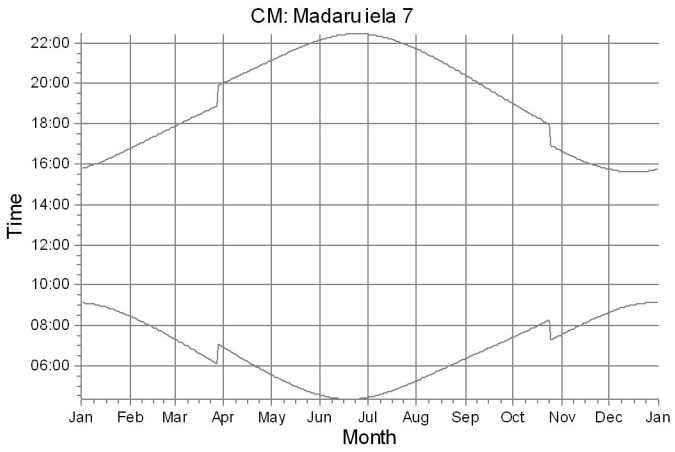
WTGs

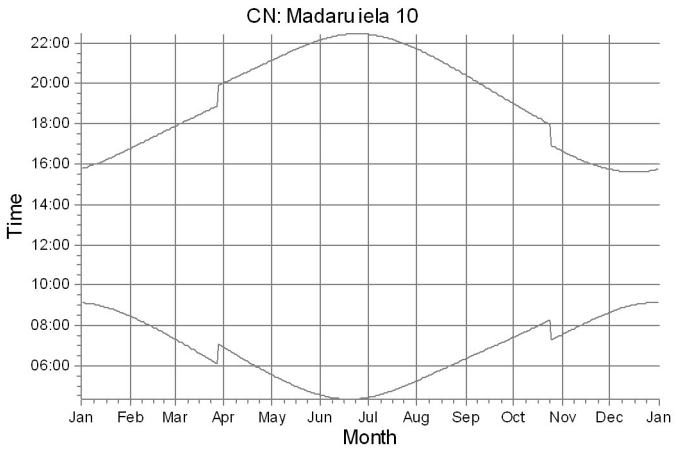
3: Z2

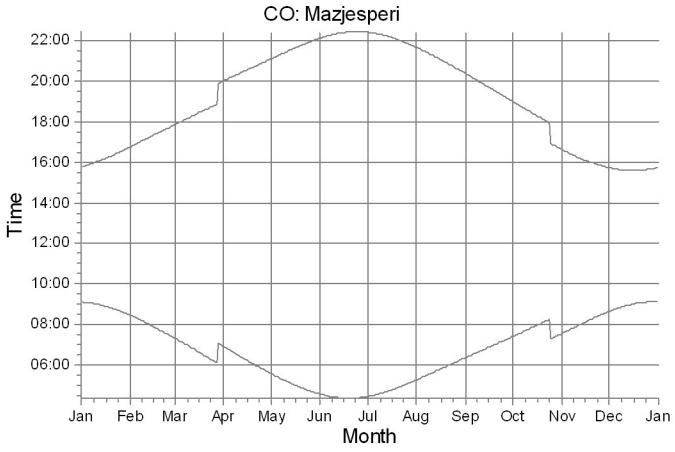
10: Z12

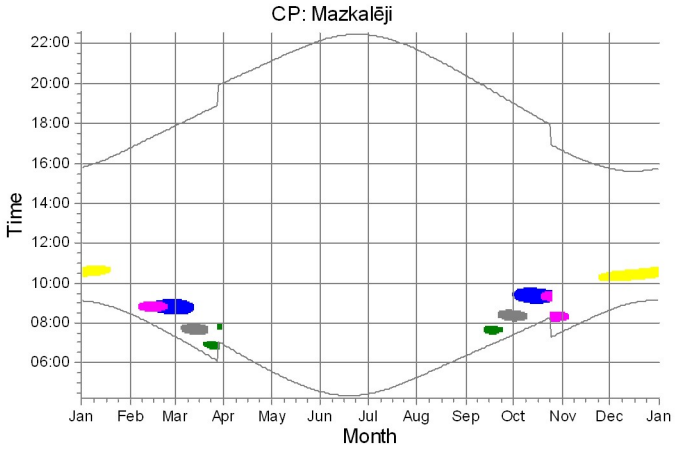
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

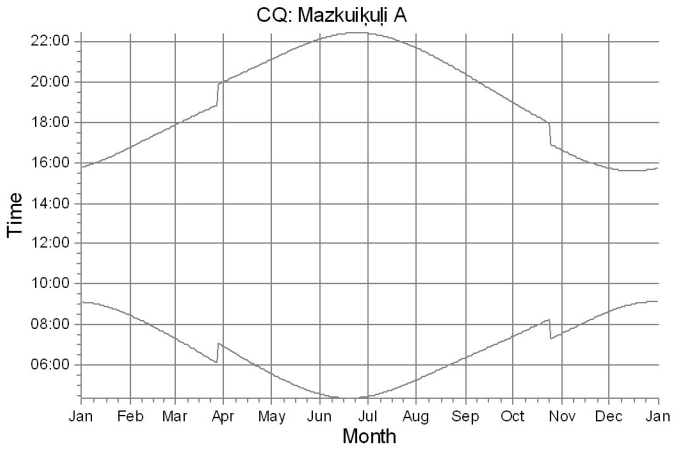
SHADOW - Calendar, graphical

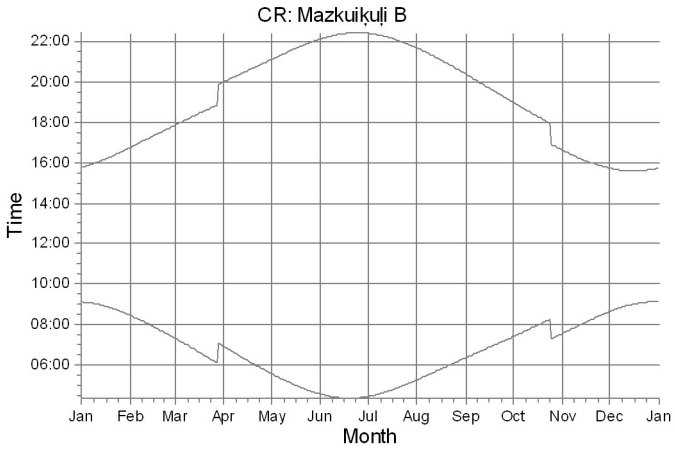










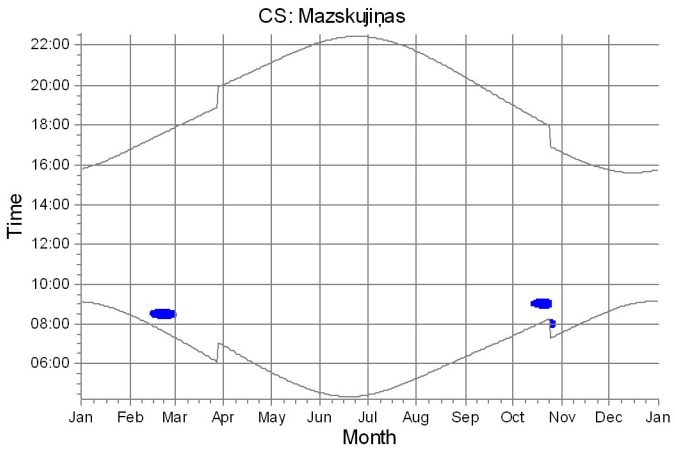


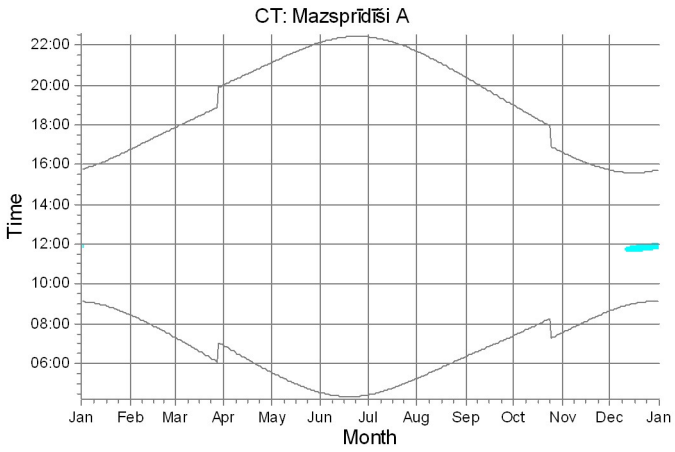
WTGs

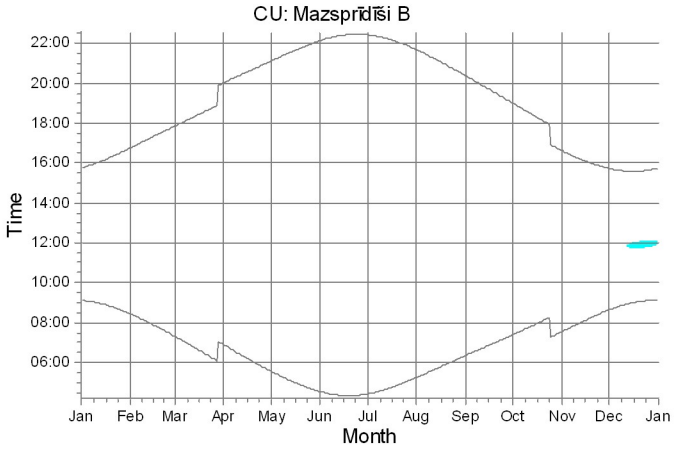
1: VES "Senlejas"	3: Z2	5: Z4
2: Z1	4: Z3	

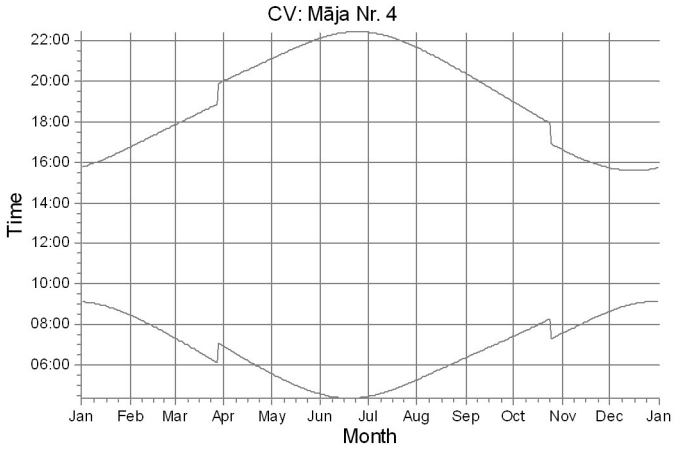
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

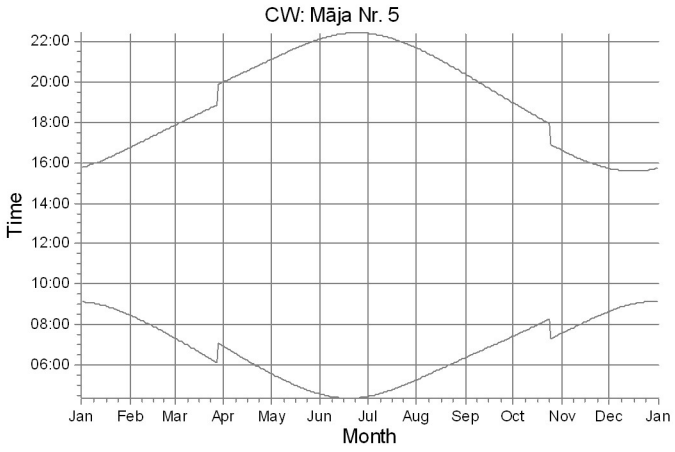
SHADOW - Calendar, graphical

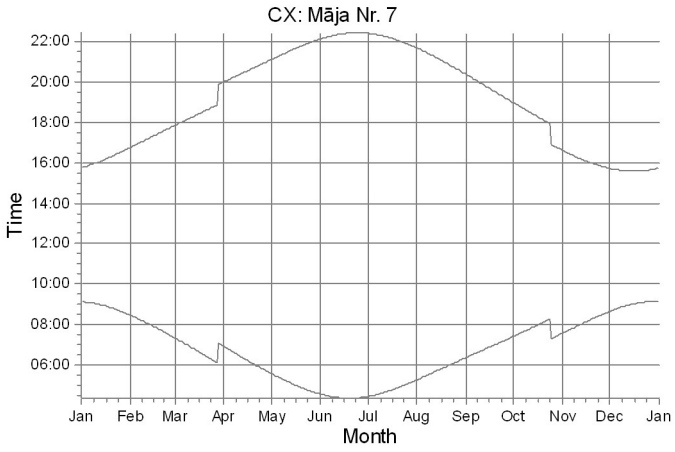












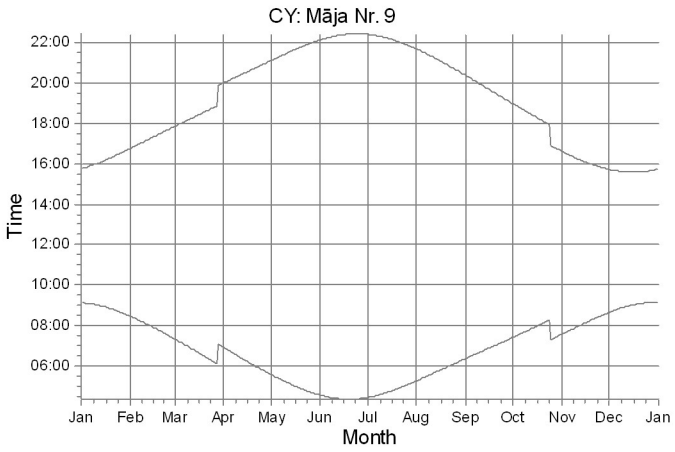
WTGs

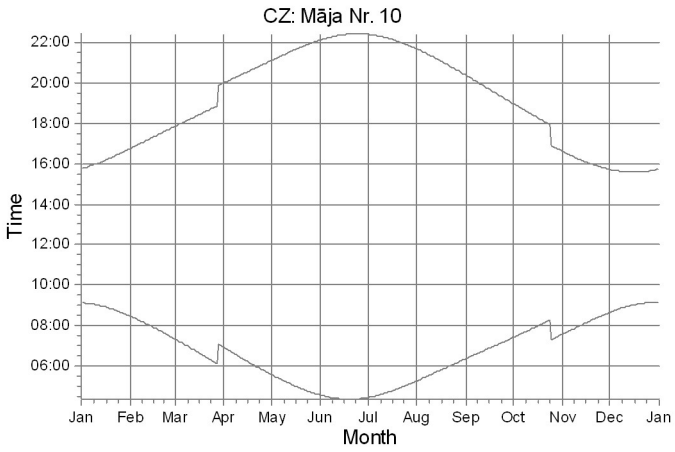
3: Z2

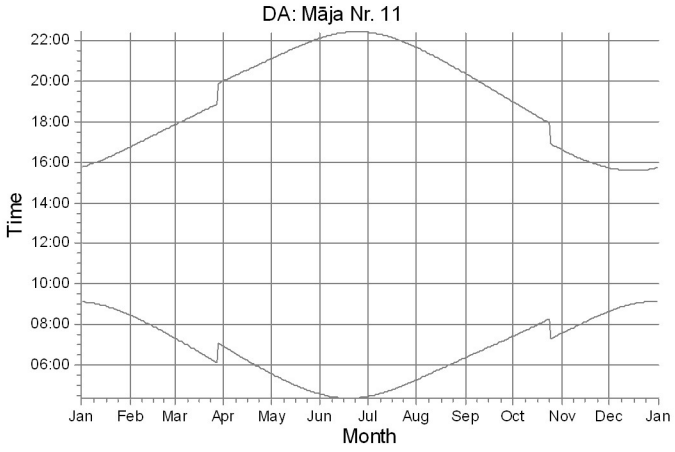
13: Z17

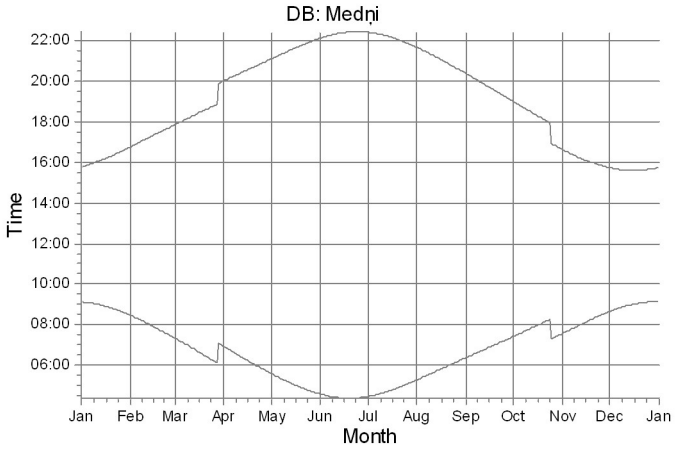
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

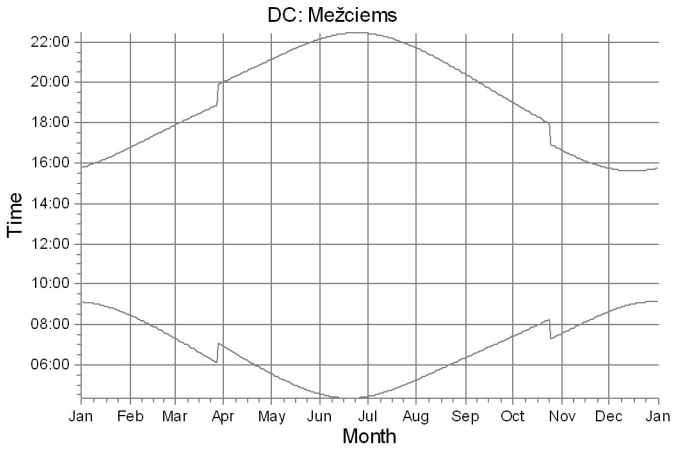
SHADOW - Calendar, graphical

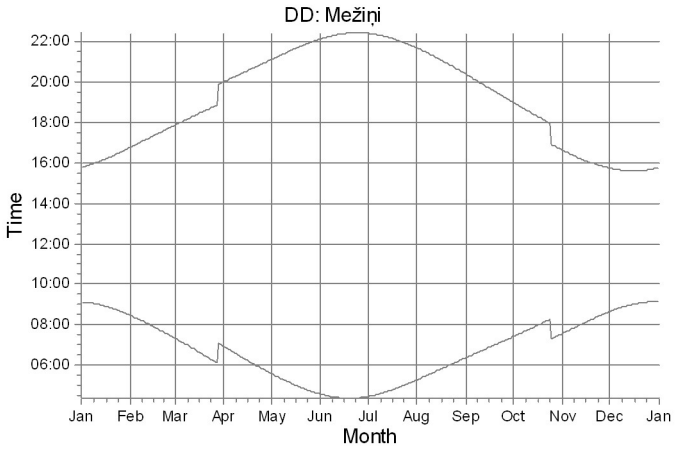








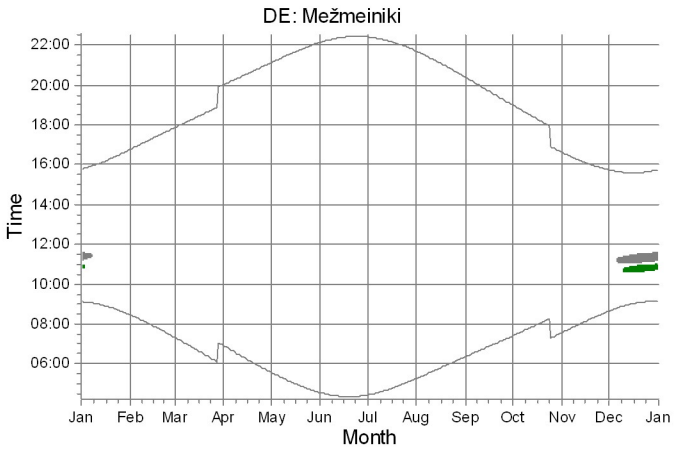


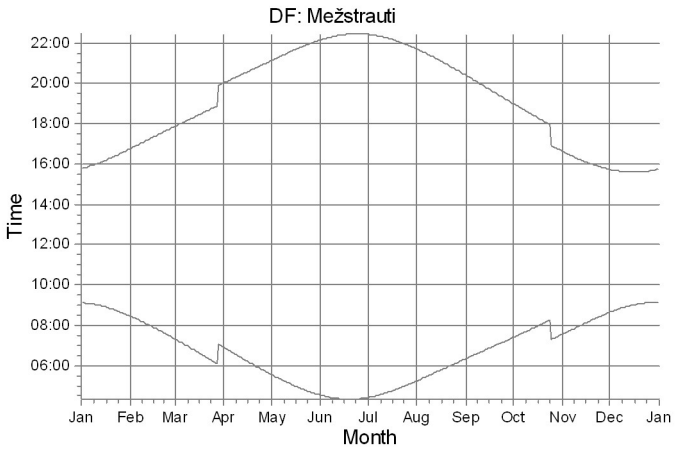


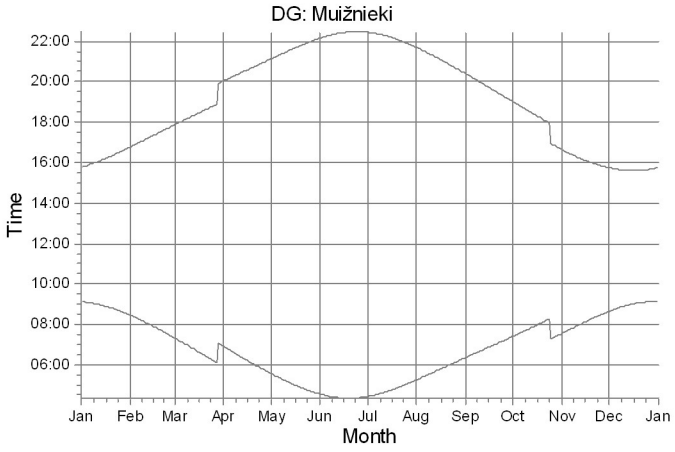
WTGs

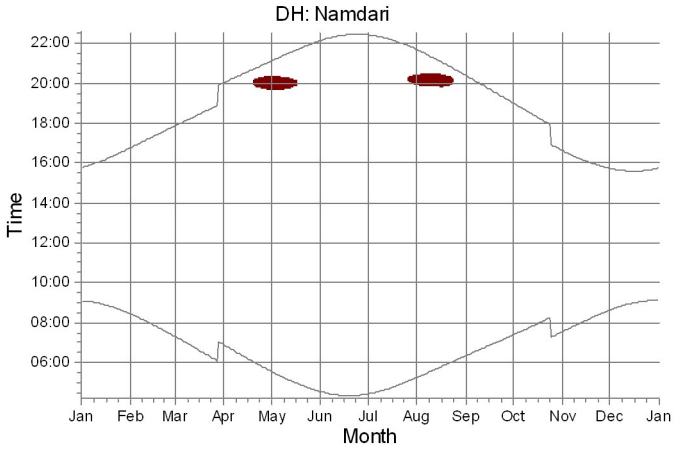
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

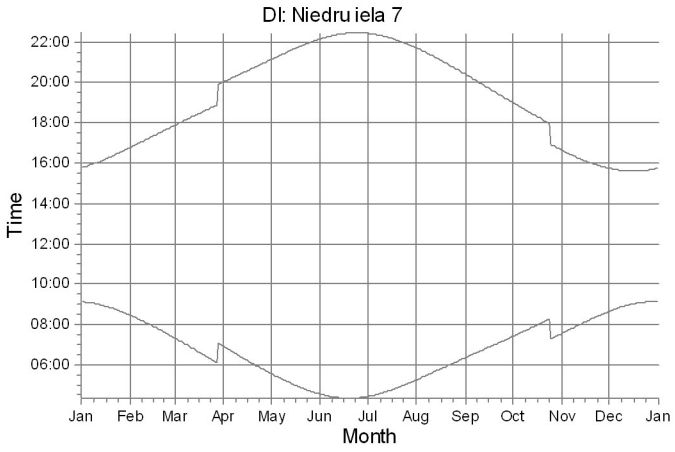
SHADOW - Calendar, graphical

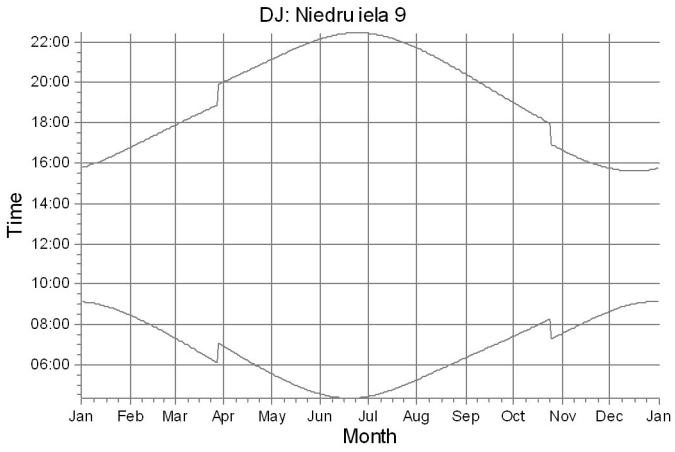










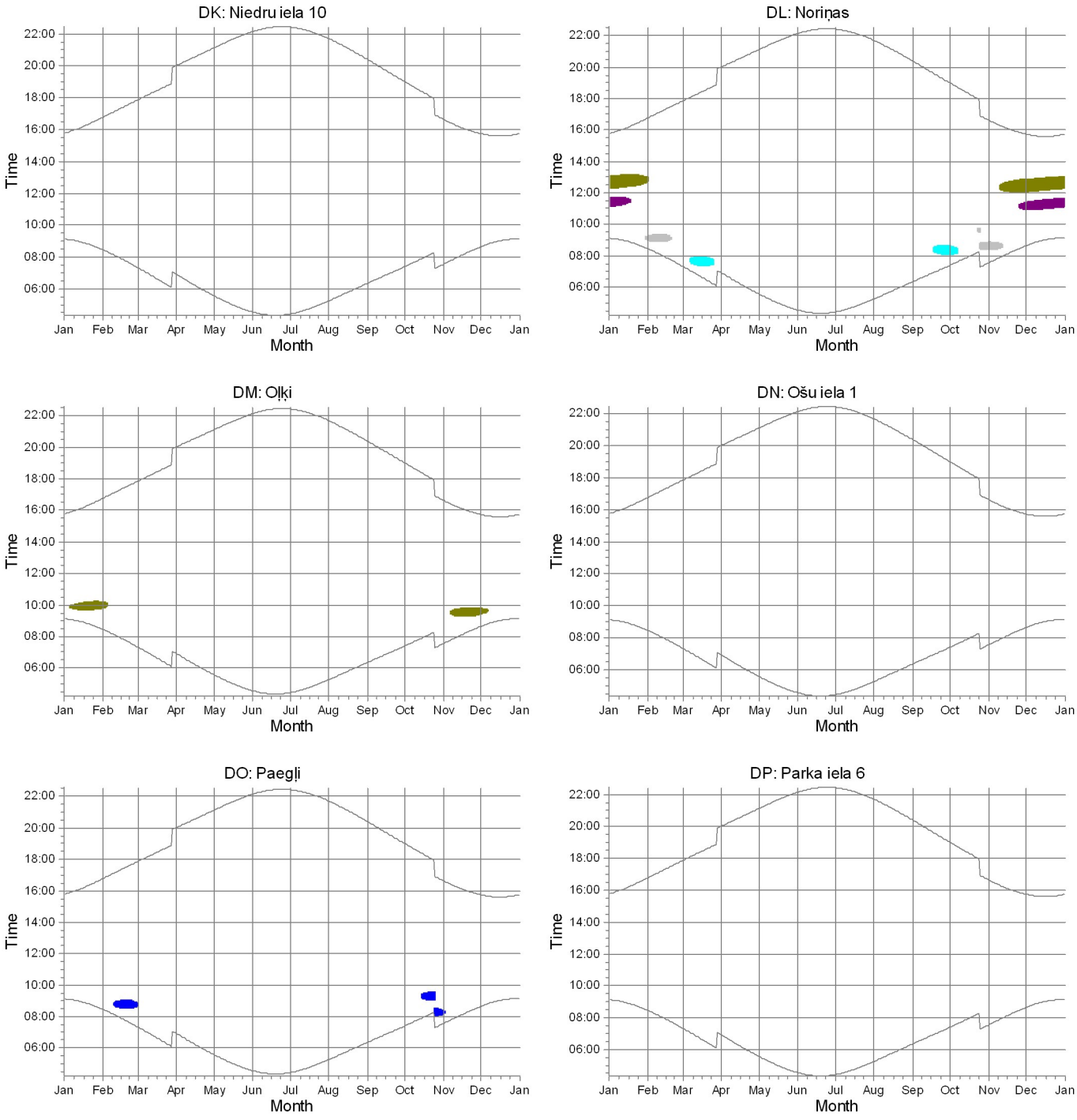


WTGs

1: VES "Senlejas" 4: Z3 8: Z9

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

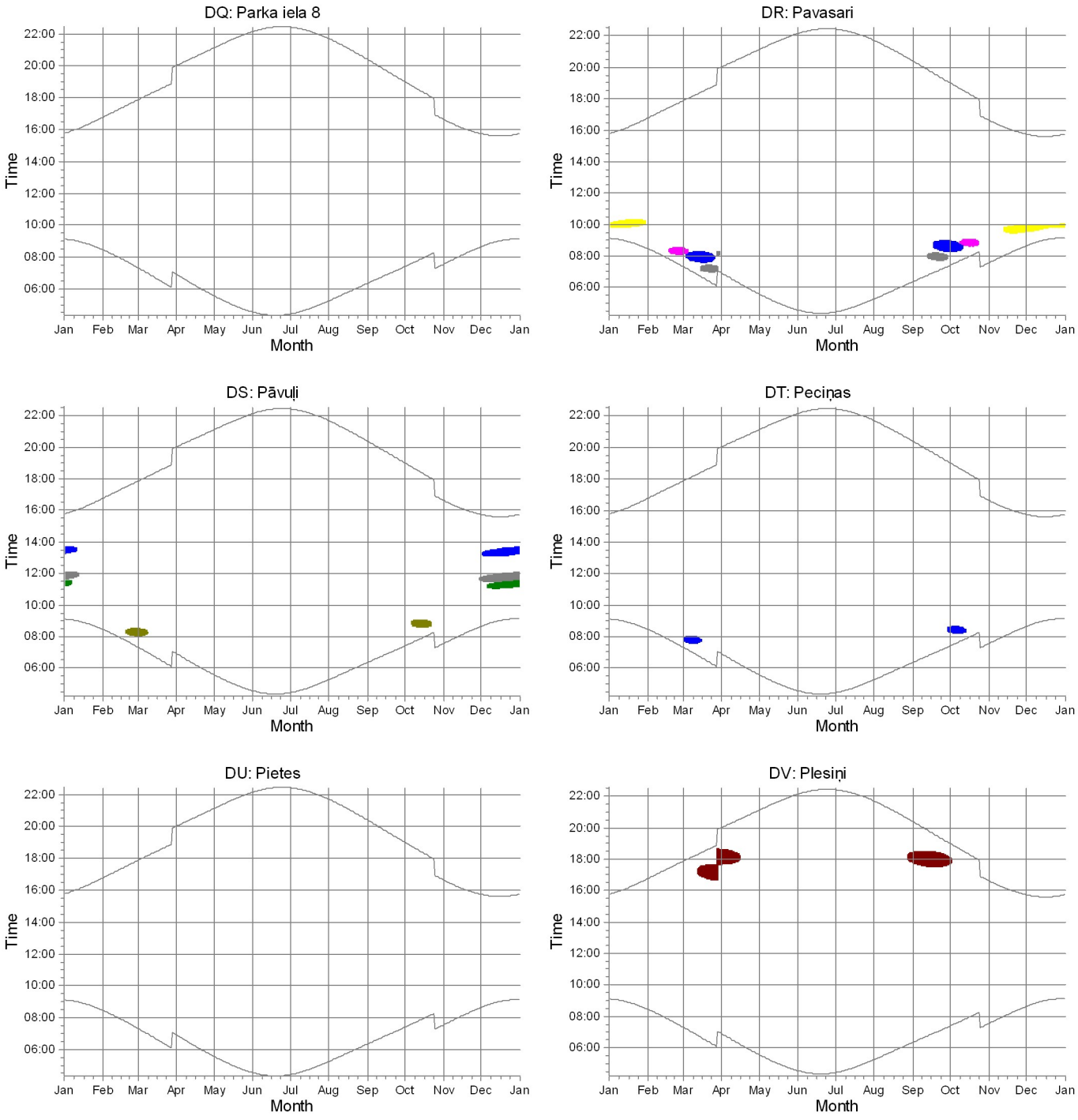


WTGs

	3: Z2		11: Z13		13: Z17
	10: Z12		12: Z16		

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

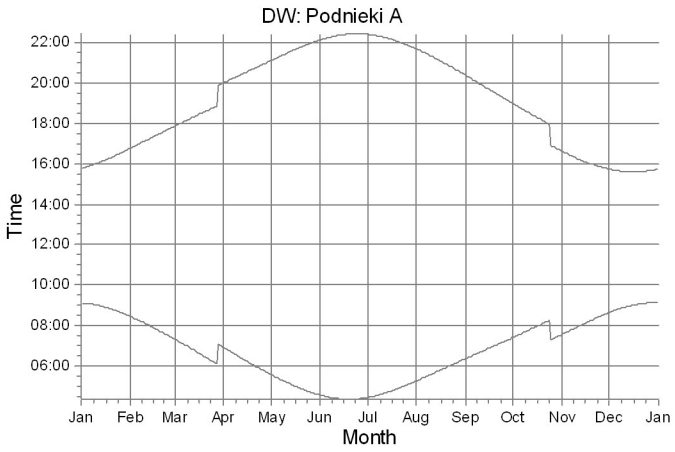


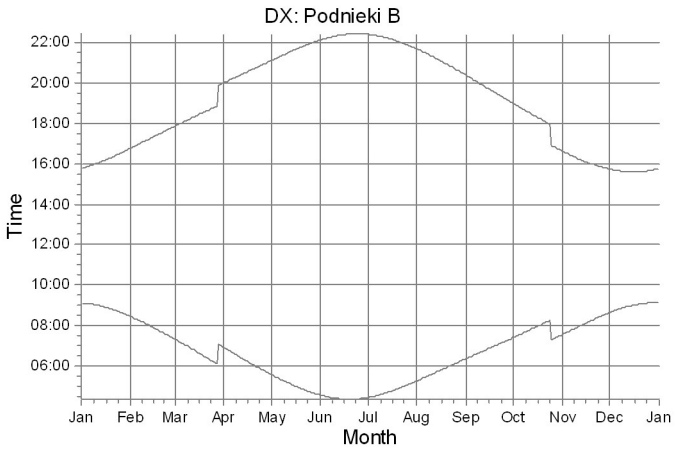
WTGs

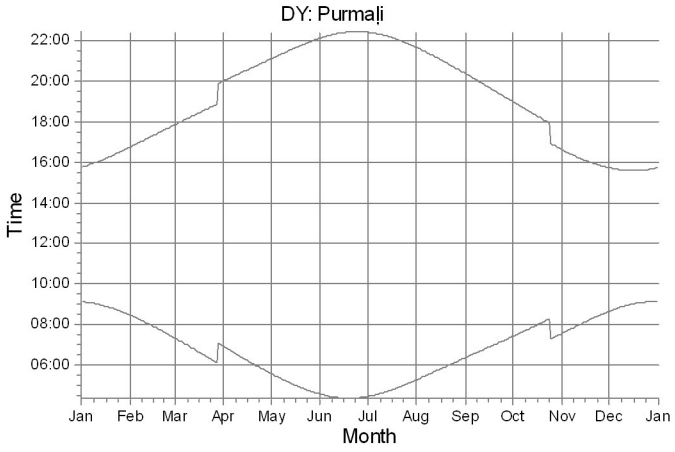
	1: VES "Senlejas"		3: Z2		5: Z4		10: Z12
	2: Z1		4: Z3		8: Z9		

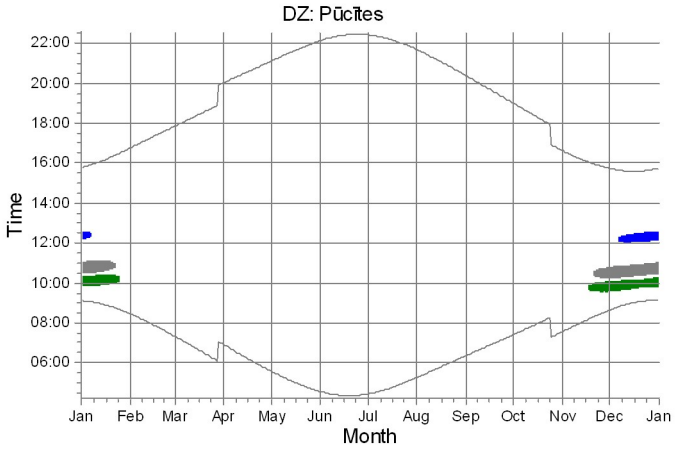
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

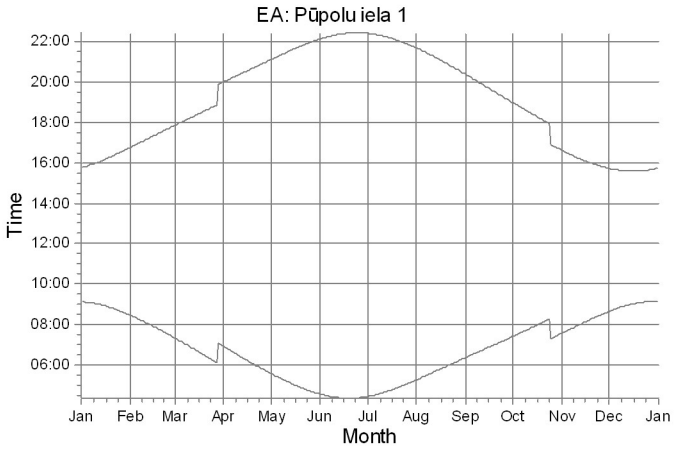
SHADOW - Calendar, graphical

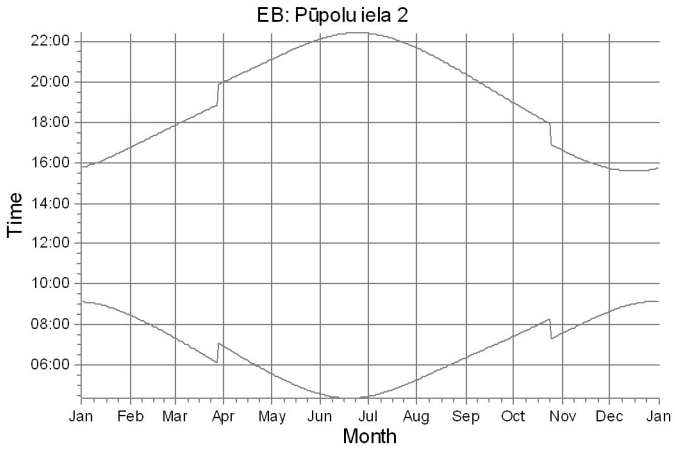










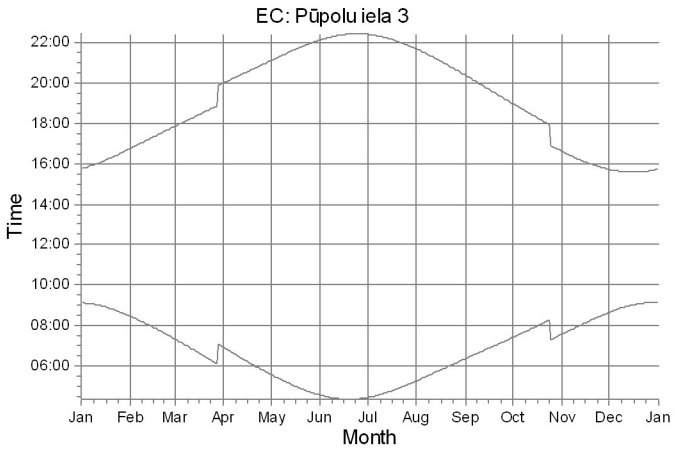


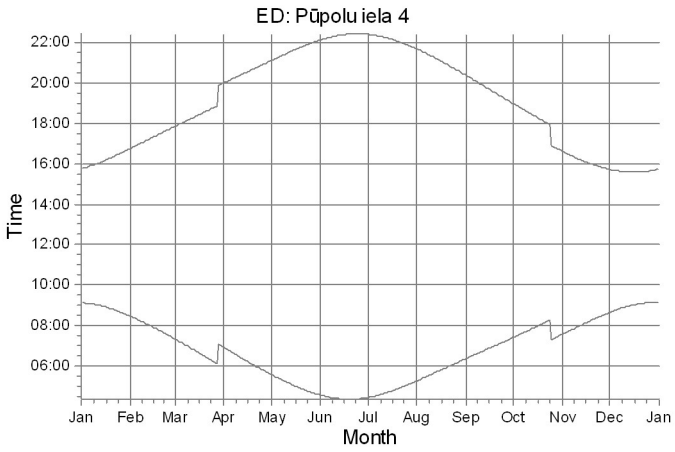
WTGs

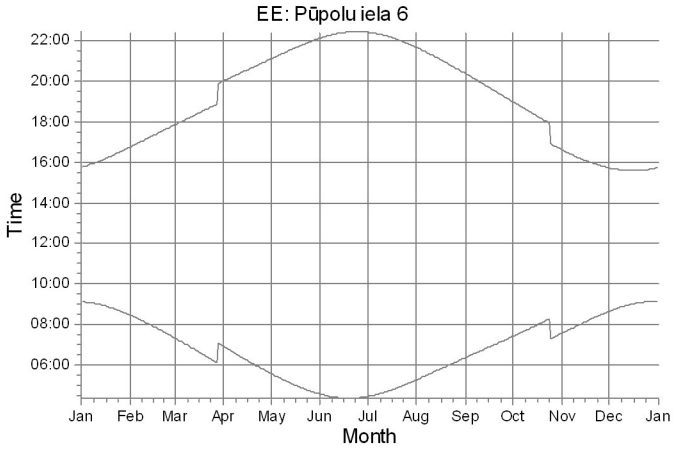
1: VES "Senlejas" 3: Z2 4: Z3

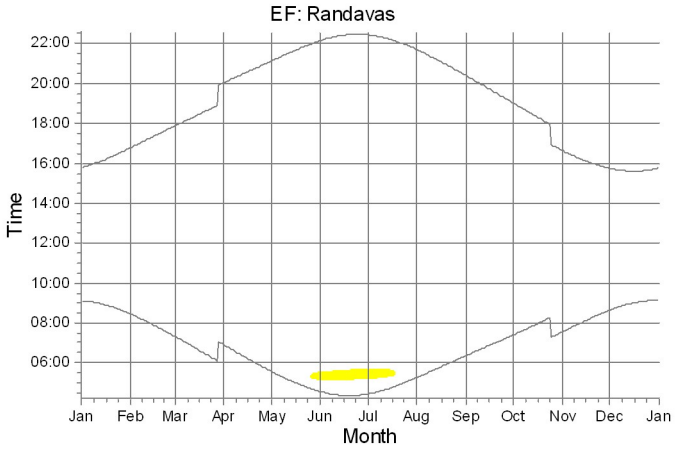
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

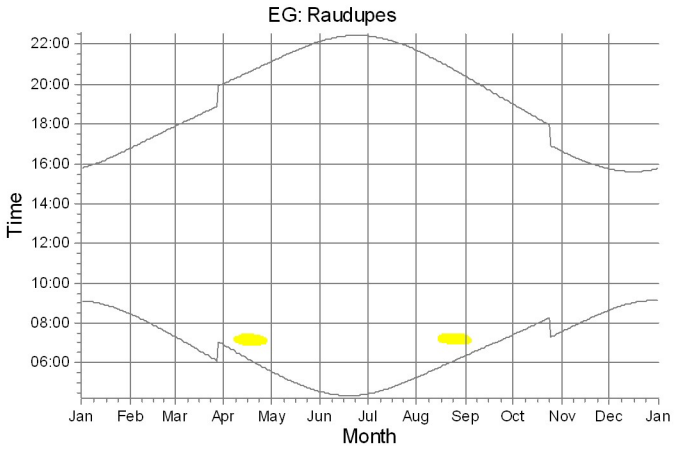
SHADOW - Calendar, graphical

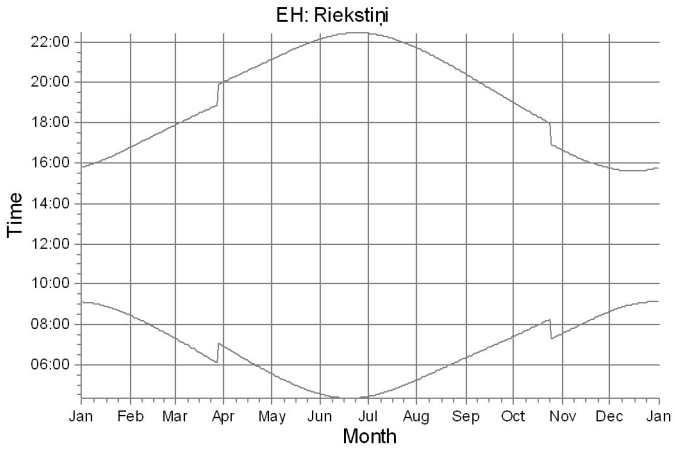










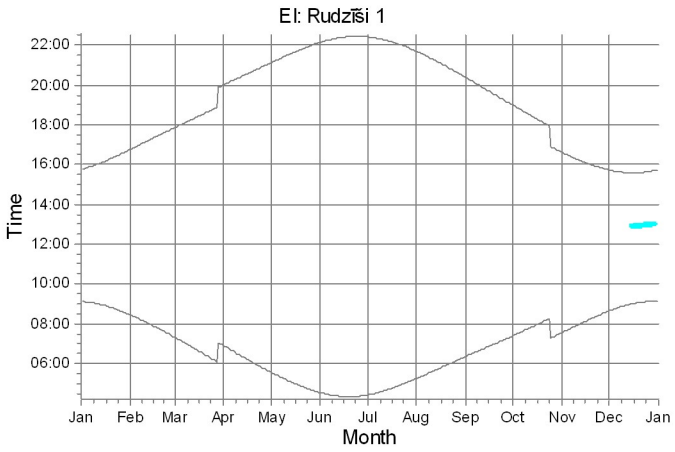


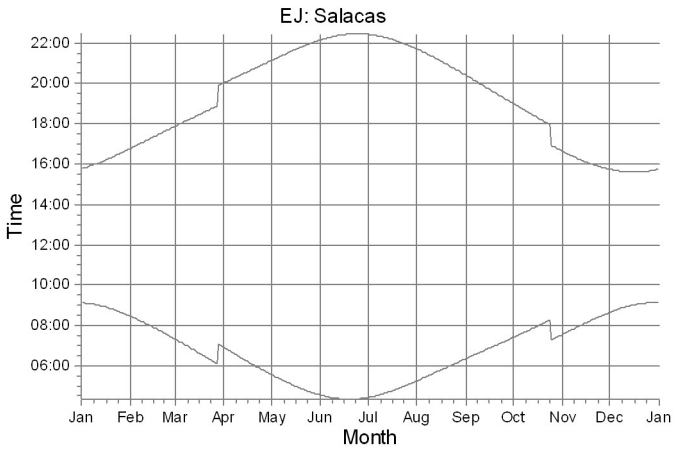
WTGs

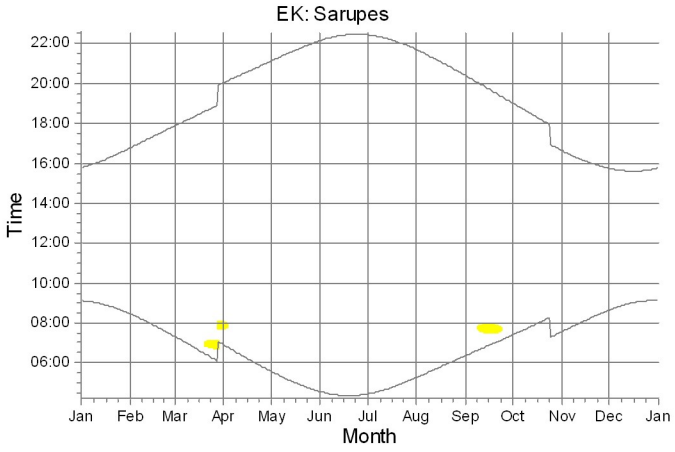
2: Z1

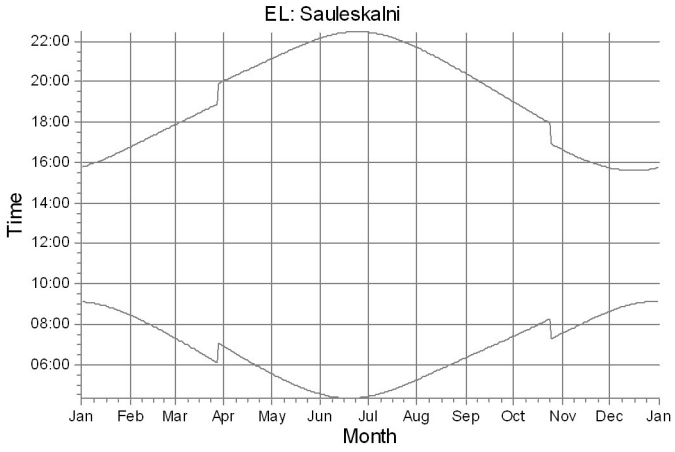
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

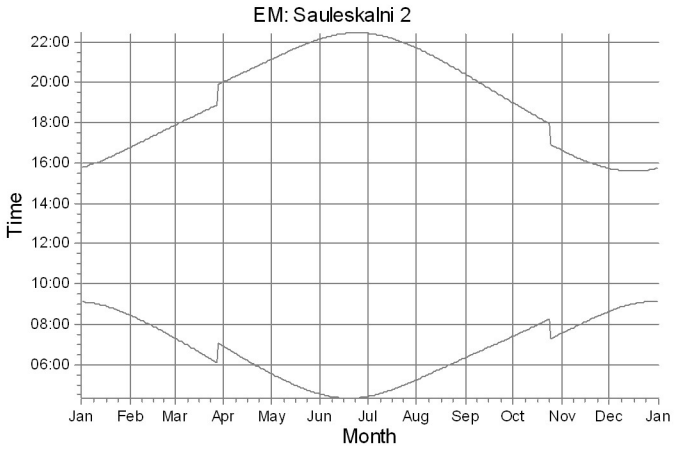
SHADOW - Calendar, graphical

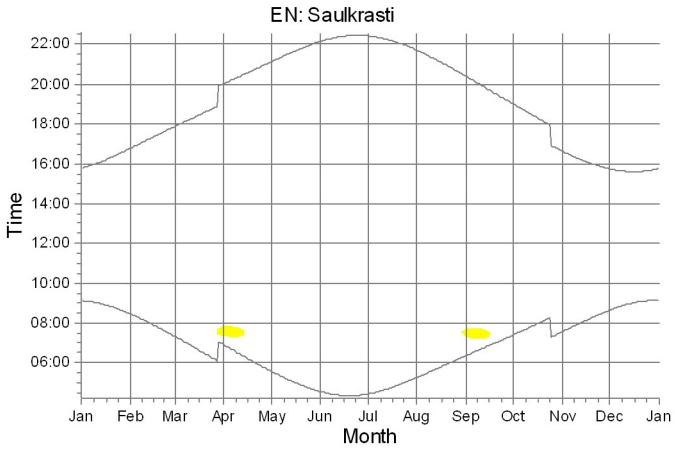












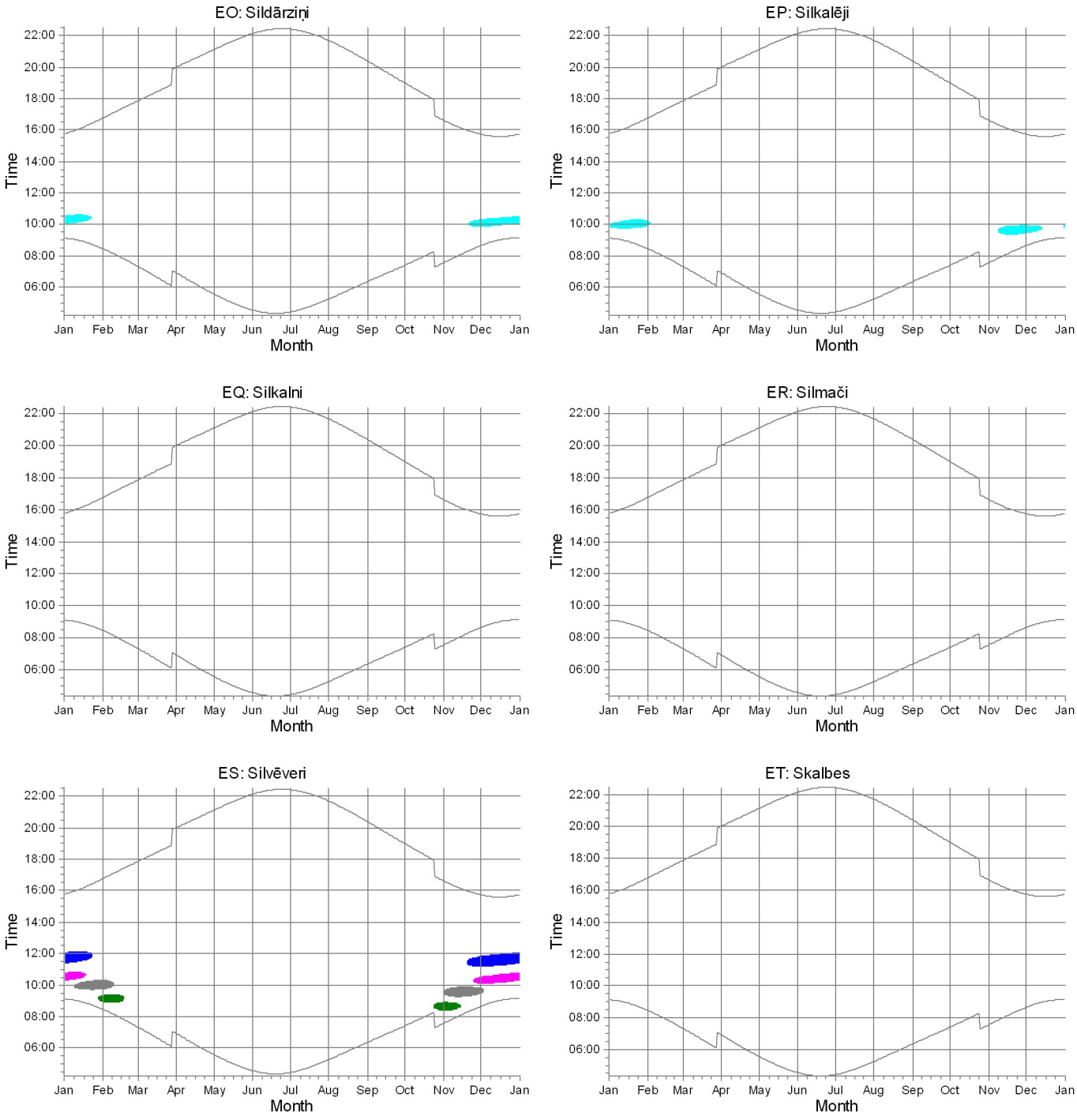
WTGs

2: Z1

13: Z17

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

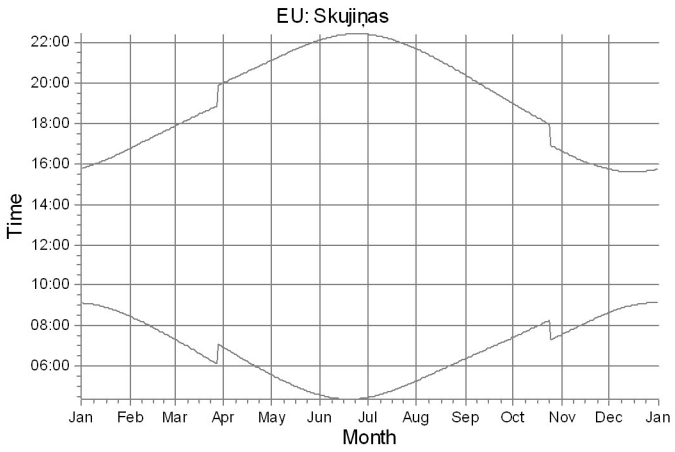


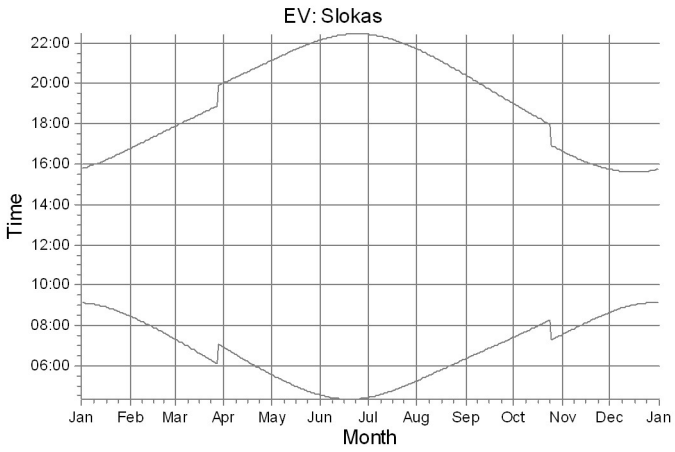
WTGs

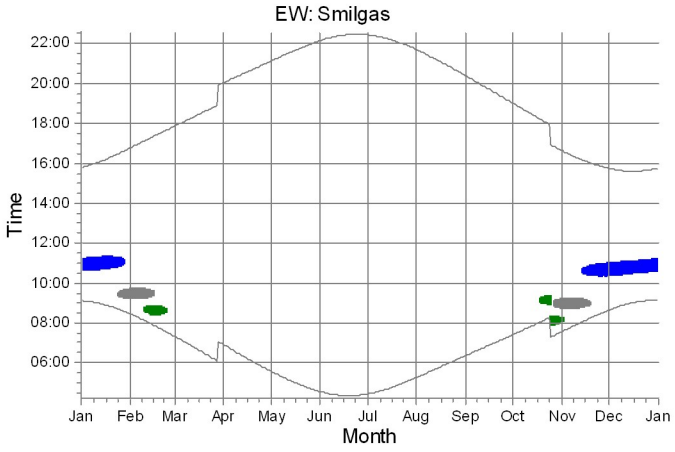
	1: VES "Senlejas"		4: Z3		13: Z17
	3: Z2		5: Z4		

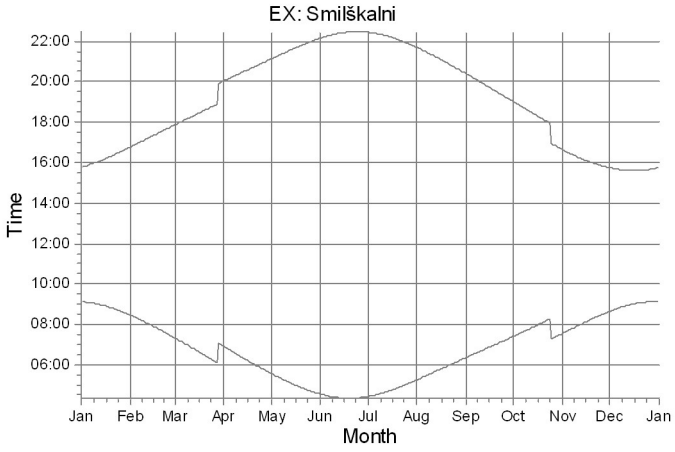
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

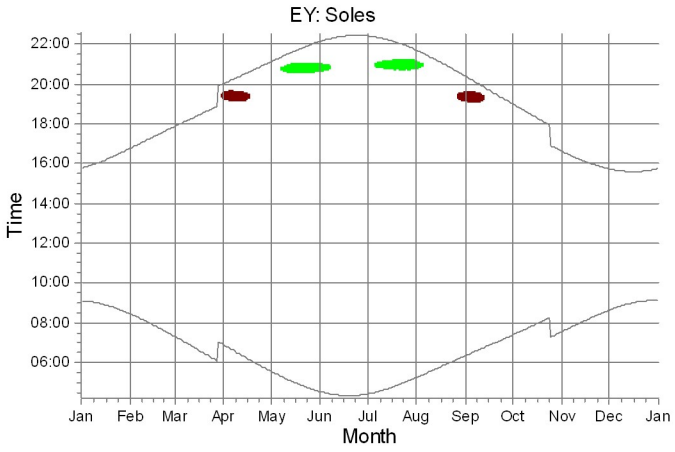
SHADOW - Calendar, graphical

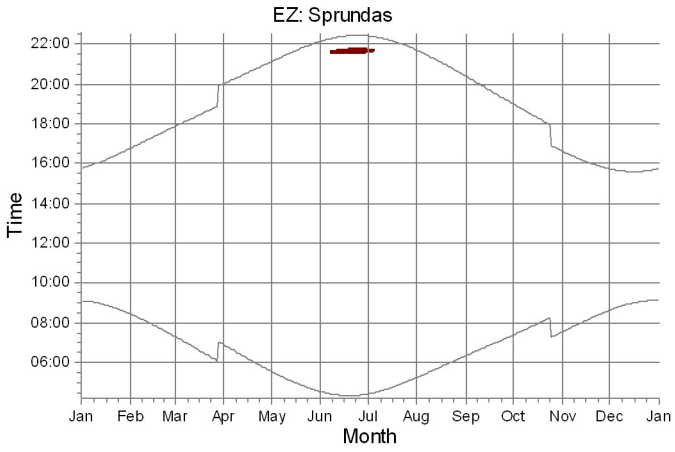










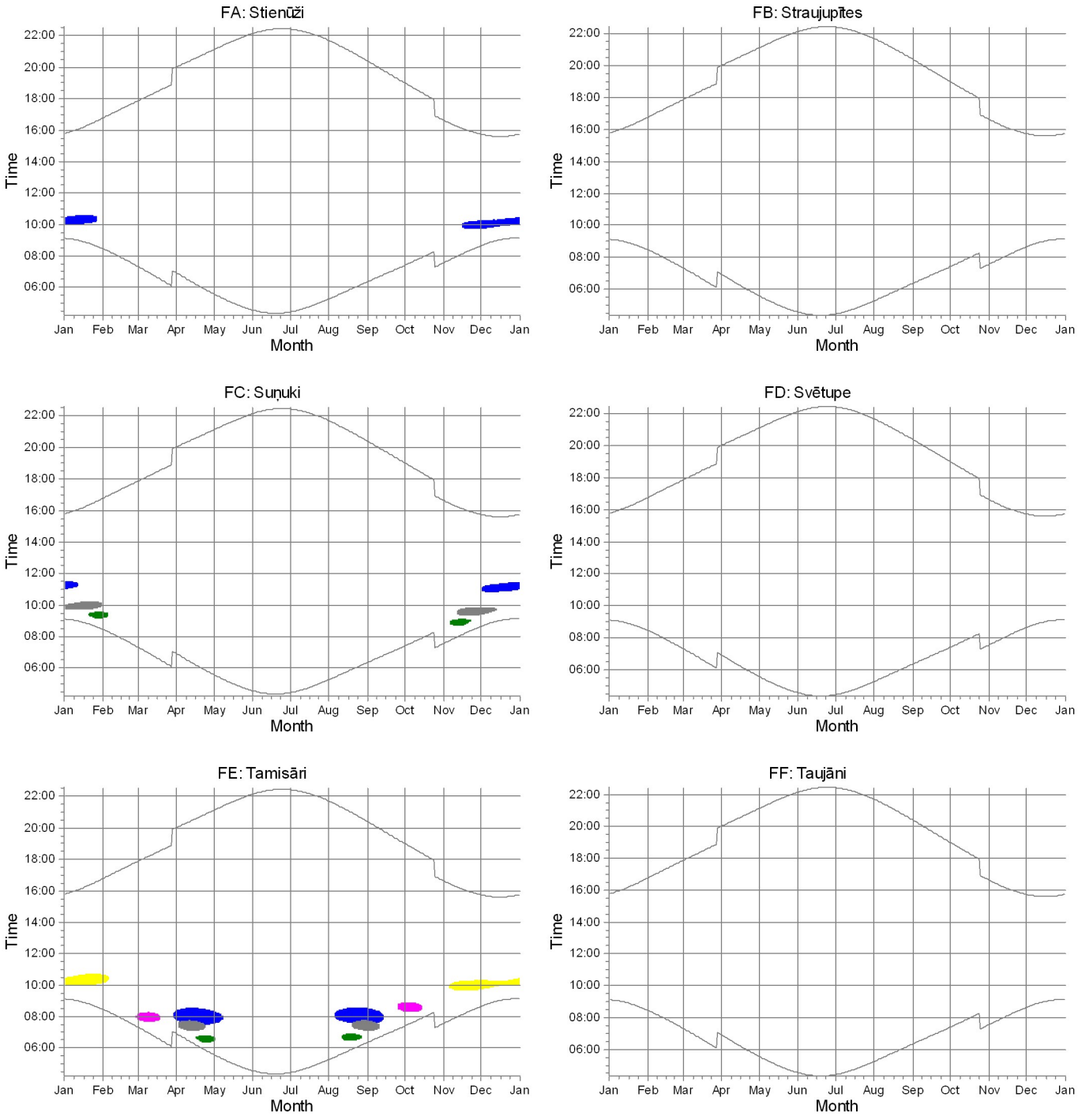


WTGs

1: VES "Senlejas"	4: Z3	9: Z10
3: Z2	8: Z9	

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical



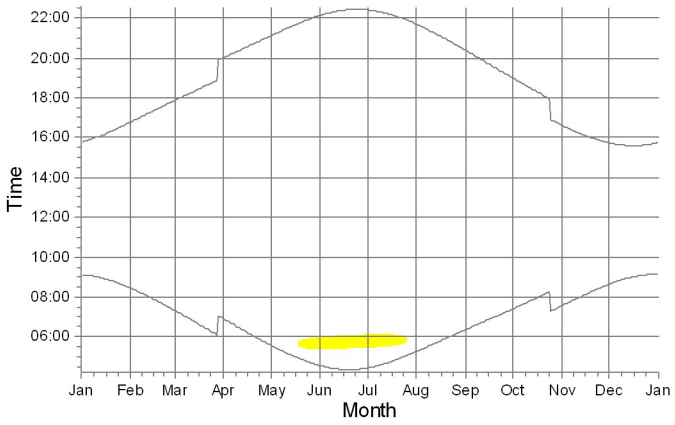
WTGs

1: VES "Senlejas"	3: Z2	5: Z4
2: Z1	4: Z3	

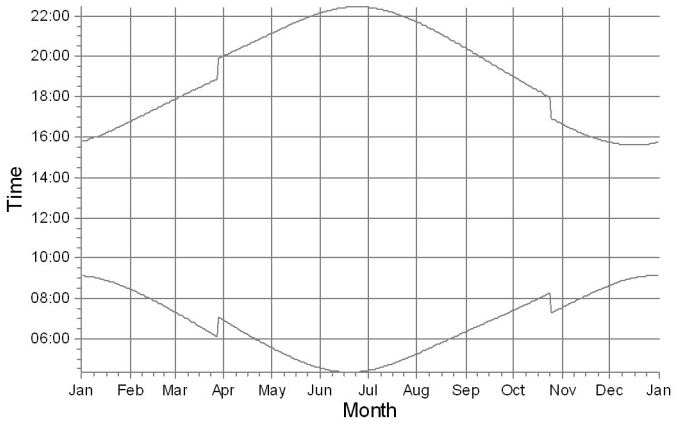
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

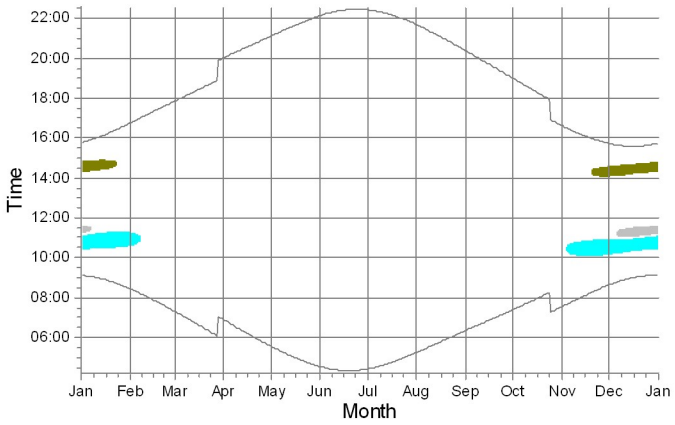
FG: Tomsoni



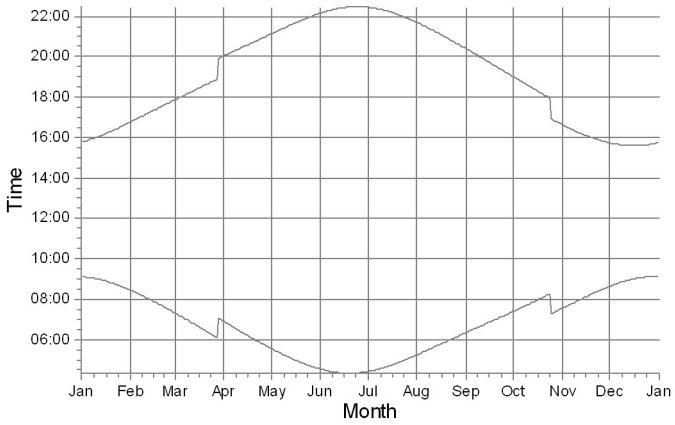
FH: Toskāna



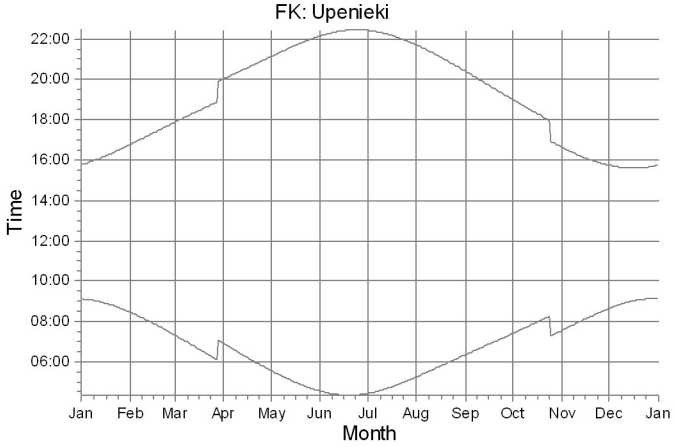
FI: Tuiskas



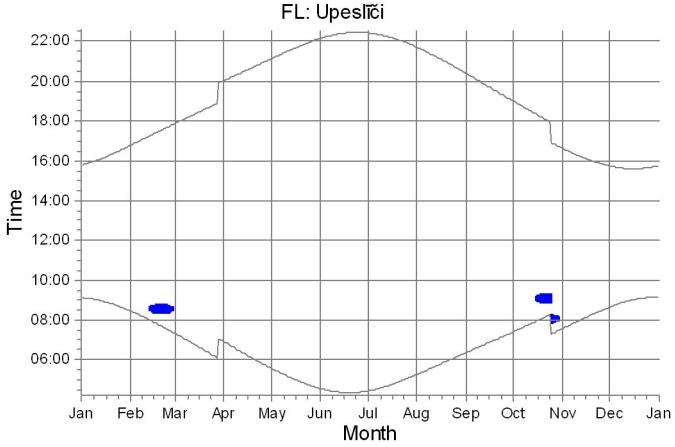
FJ: Ugrāji



FK: Upenieki



FL: Upeslīči

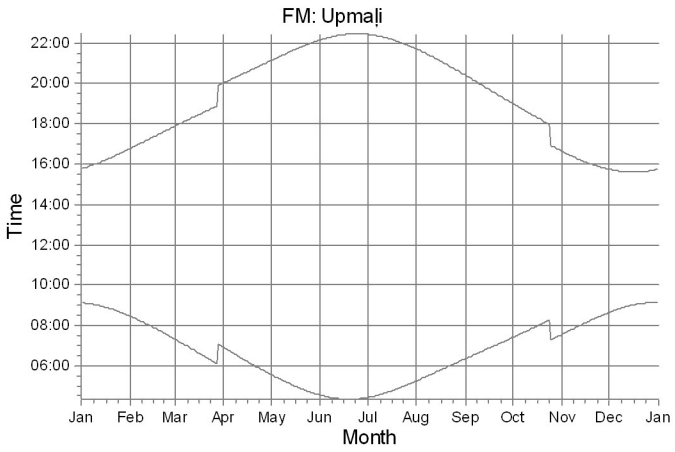


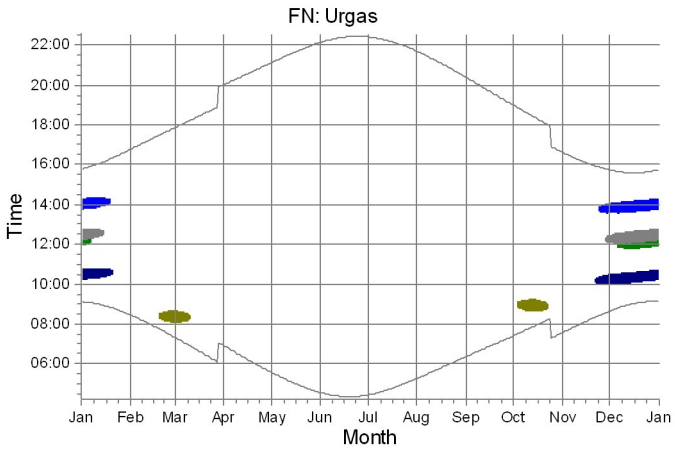
WTGs

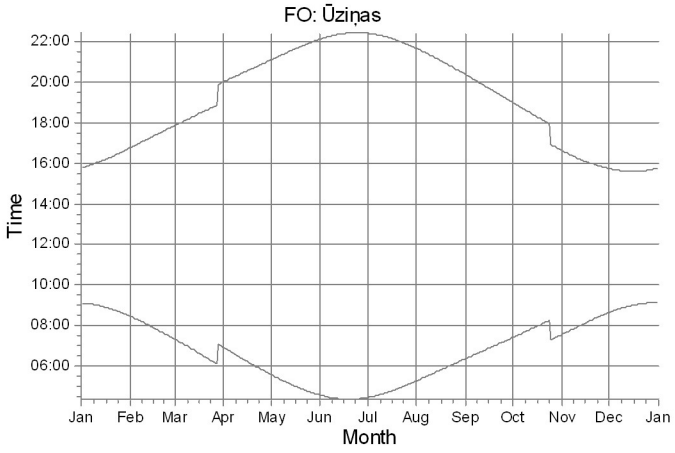
	2: Z1		10: Z12		13: Z17
	3: Z2		12: Z16		

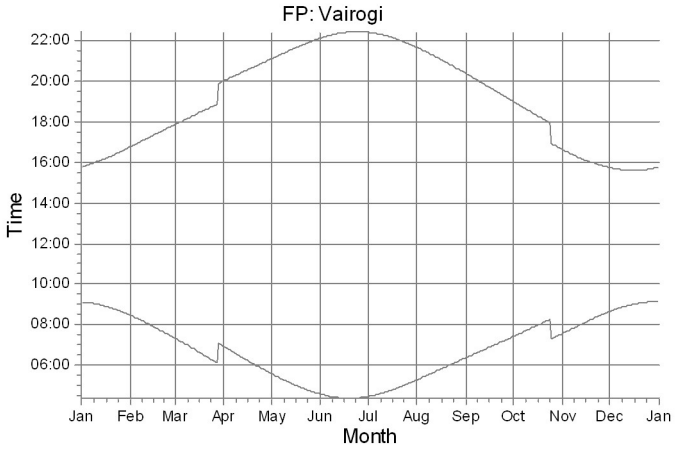
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

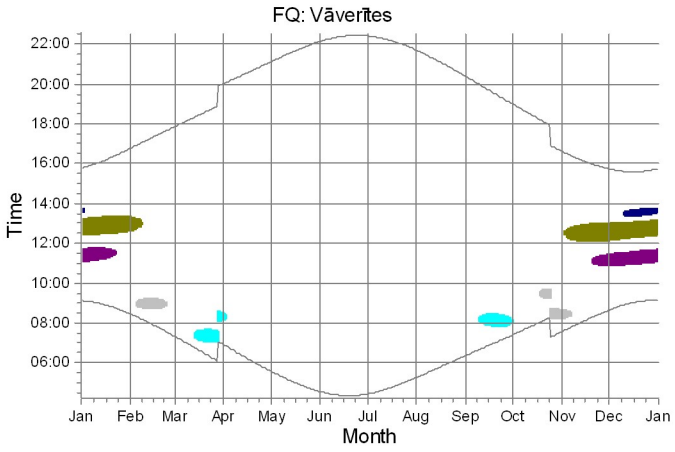
SHADOW - Calendar, graphical

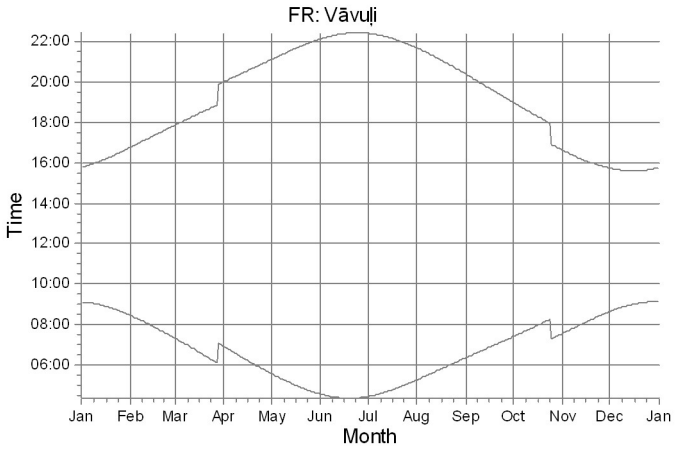










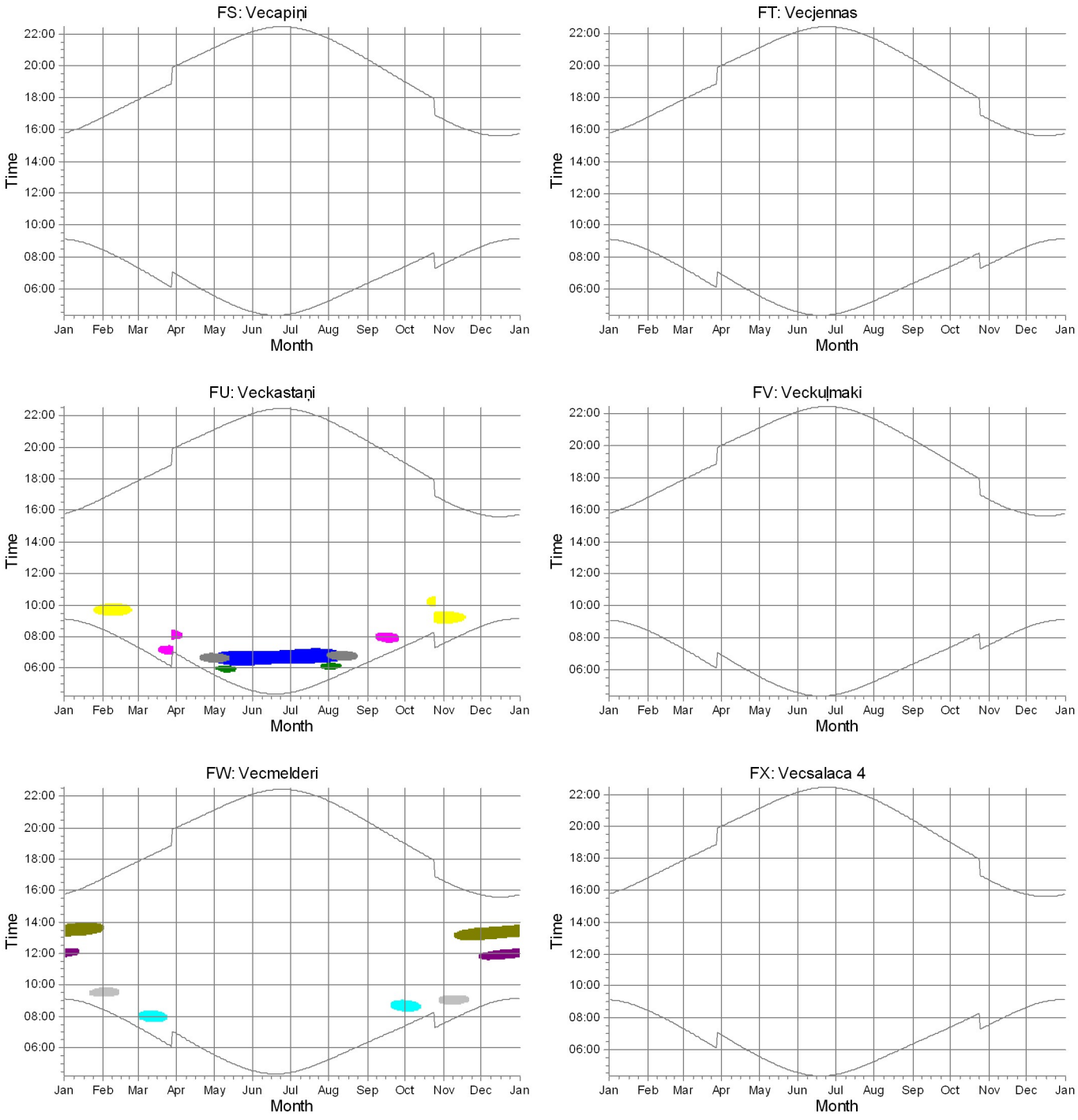


WTGs

1: VES "Senlejas"	4: Z3	10: Z12	12: Z16
3: Z2	7: Z6	11: Z13	13: Z17

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

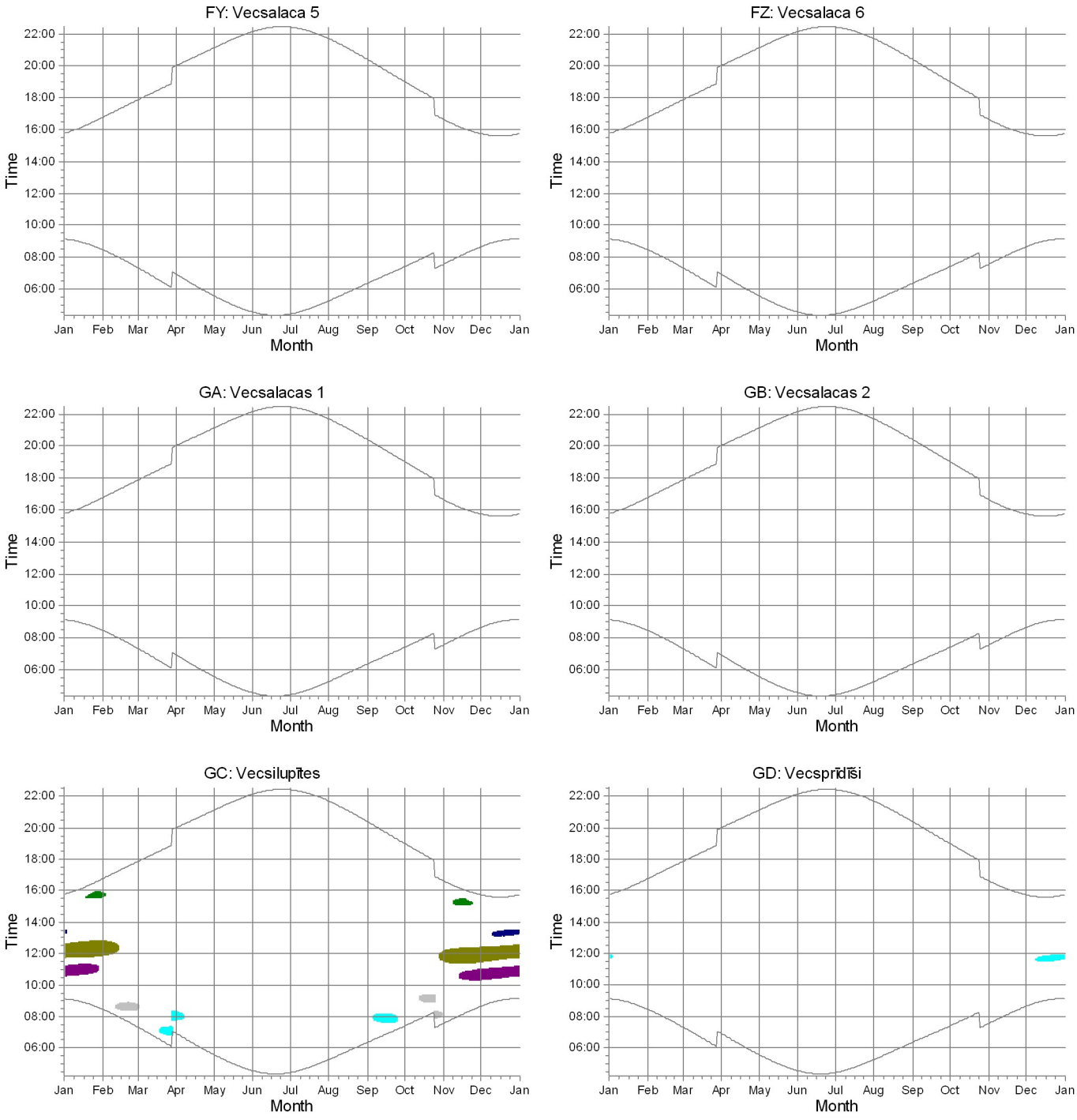


WTGs

1: VES "Senlejas"	4: Z3	11: Z13
2: Z1	5: Z4	12: Z16
3: Z2	10: Z12	13: Z17

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

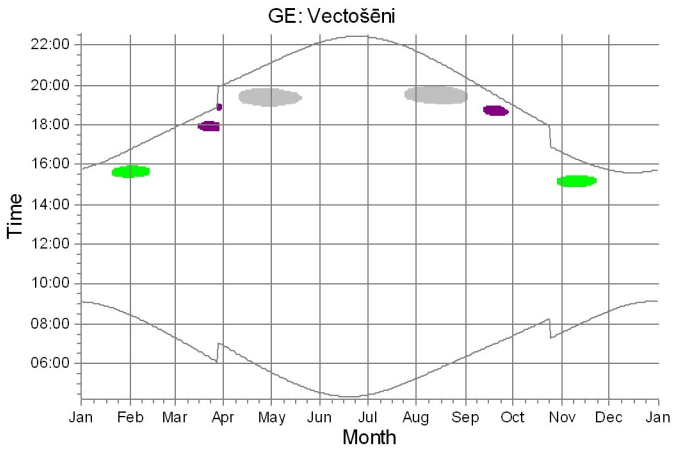


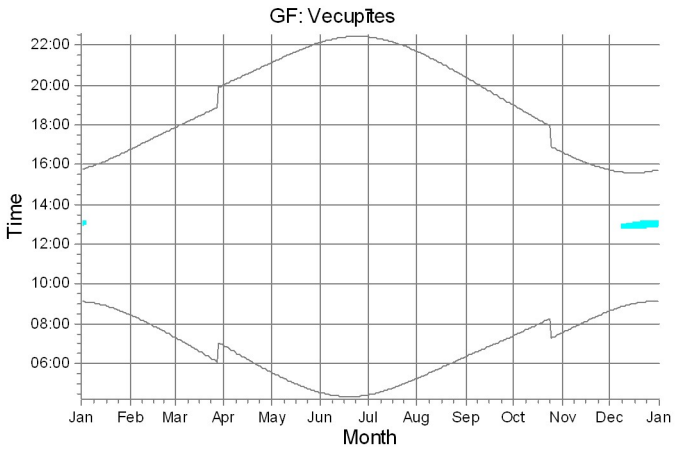
WTGs

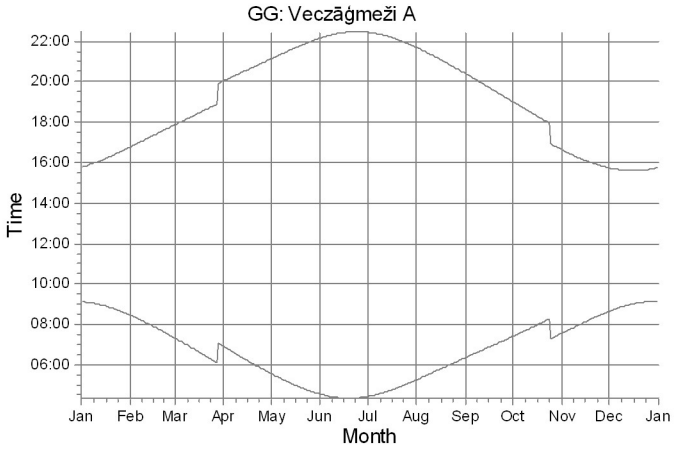
1: VES "Senlejas"	10: Z12	12: Z16
7: Z6	11: Z13	13: Z17

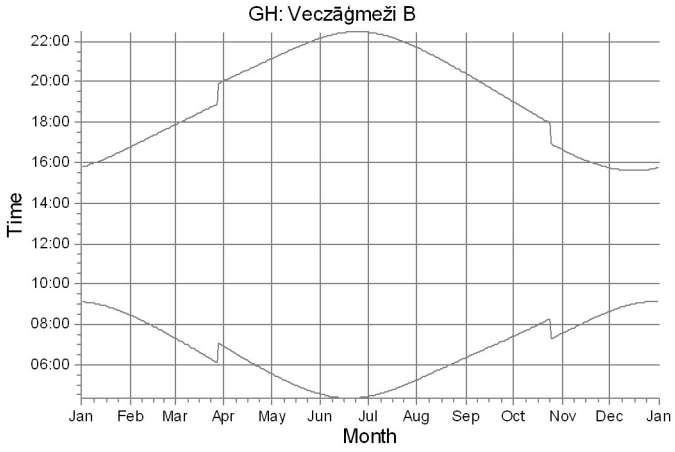
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

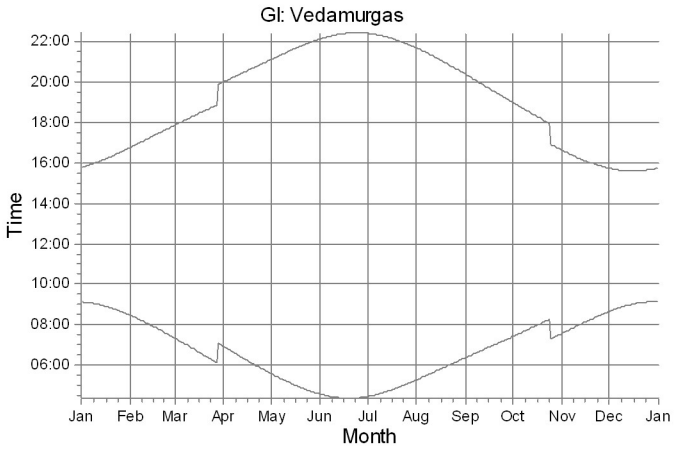
SHADOW - Calendar, graphical

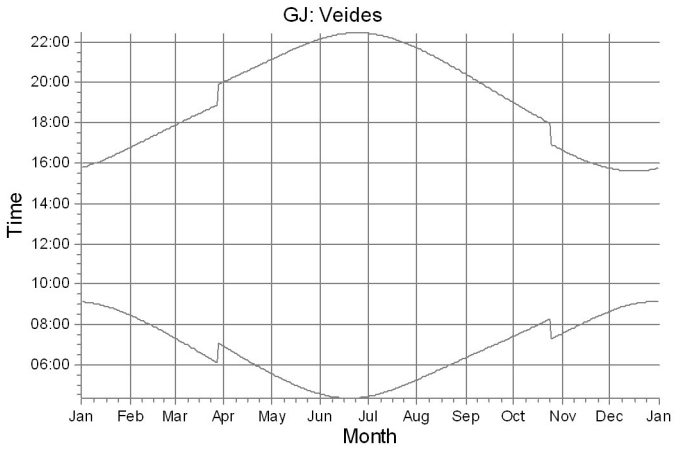










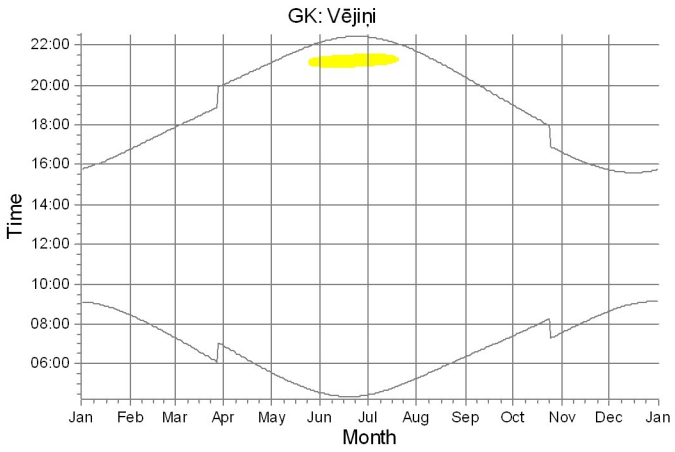


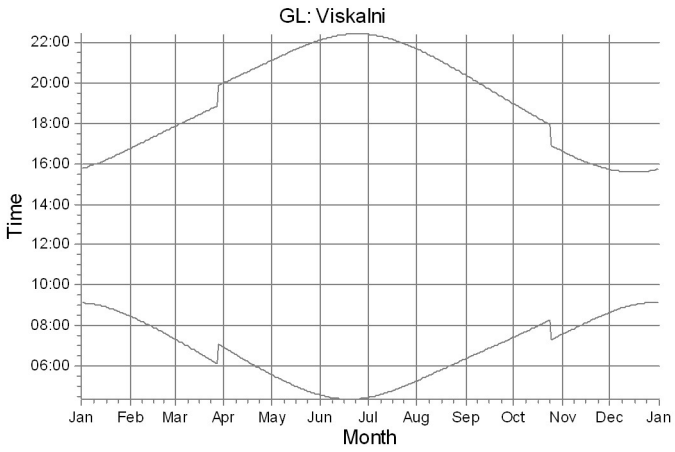
WTGs

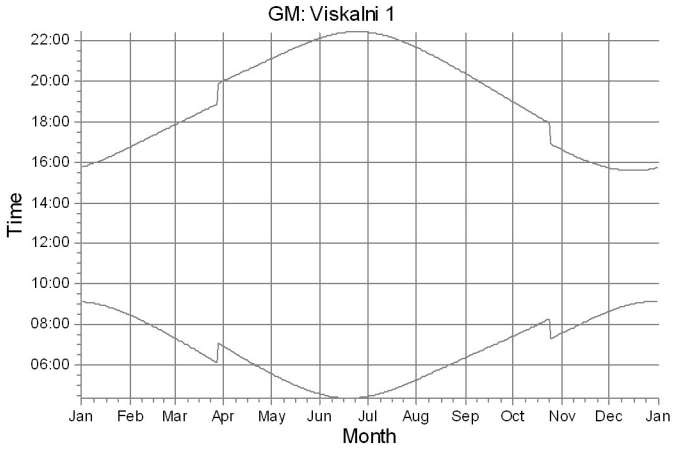
9: Z10 11: Z13 12: Z16 13: Z17

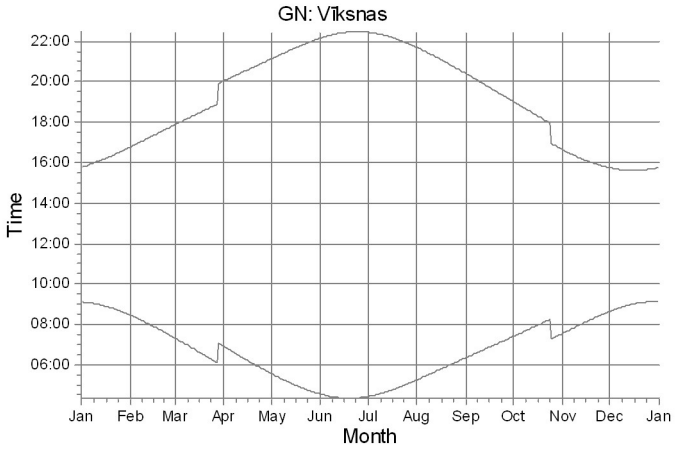
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

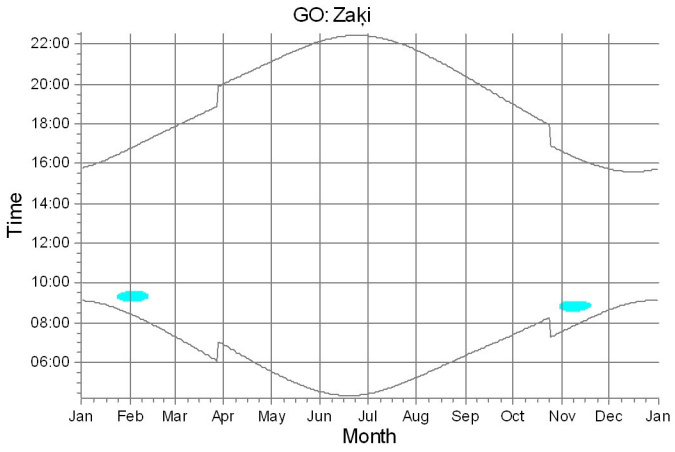
SHADOW - Calendar, graphical

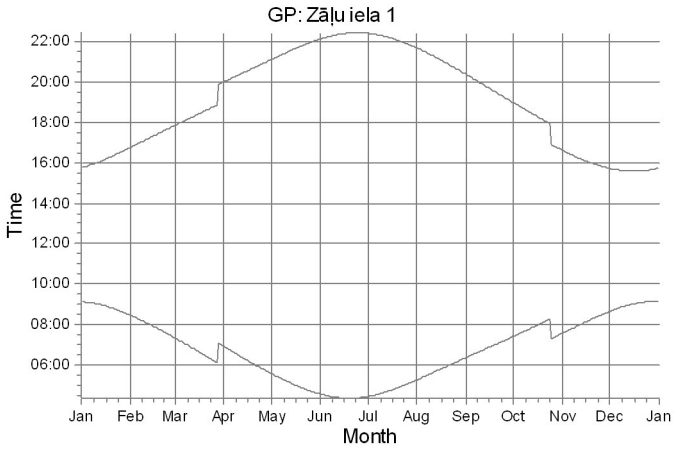












WTGs

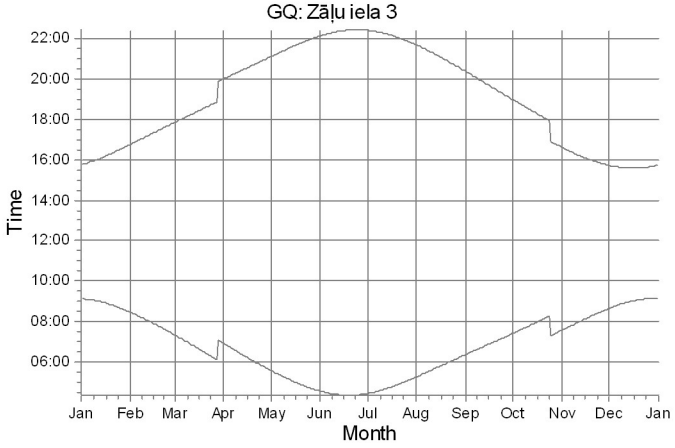
2: Z1

13: Z17

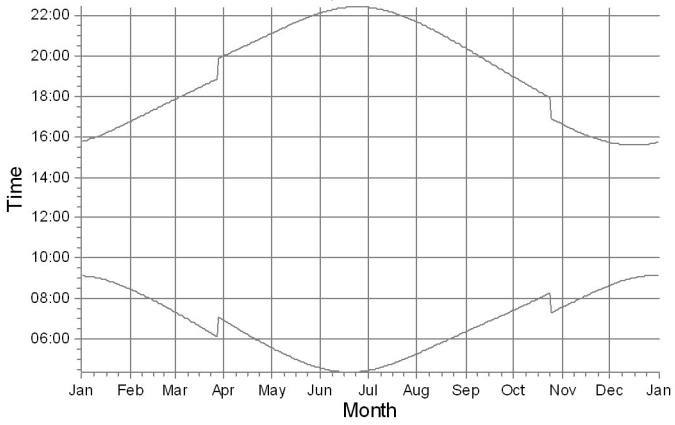
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

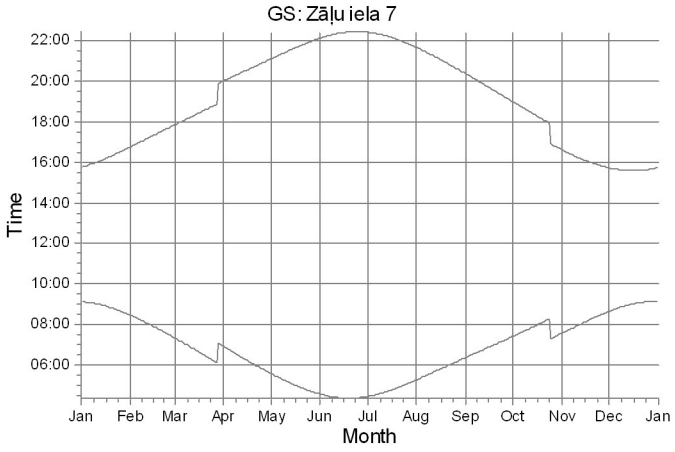
GQ: Zāļu iela 3



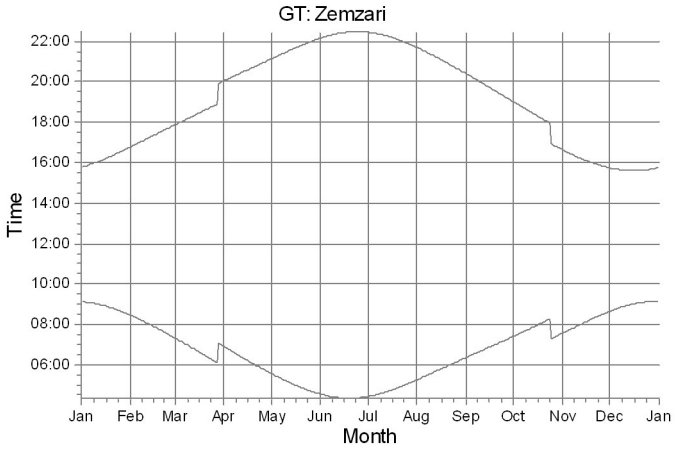
GR: Zāļu iela 5



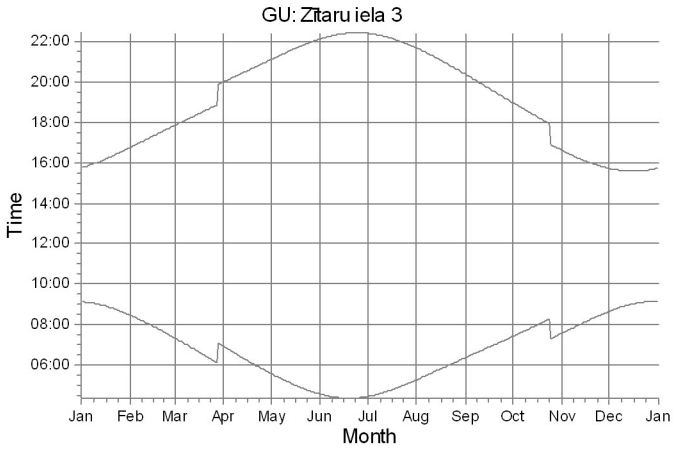
GS: Zāļu iela 7



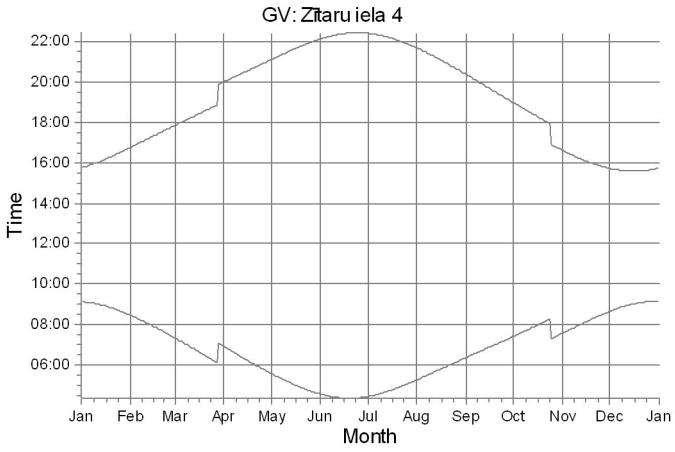
GT: Zemzari



GU: Zītaru iela 3



GV: Zītaru iela 4

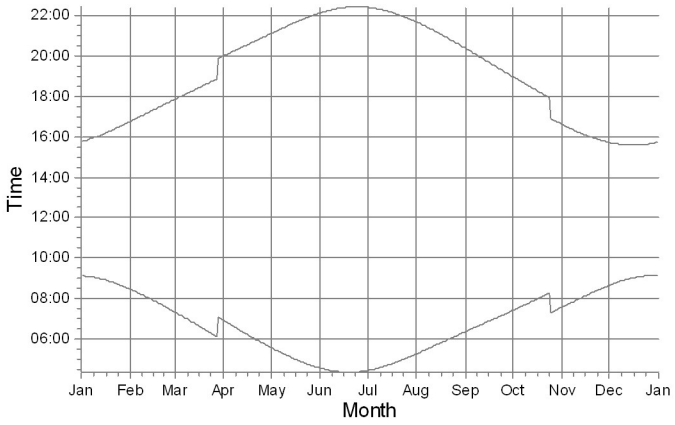


WTGs

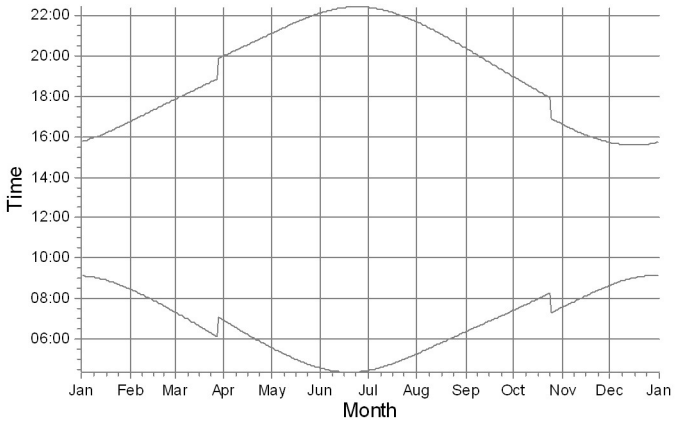
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar, graphical

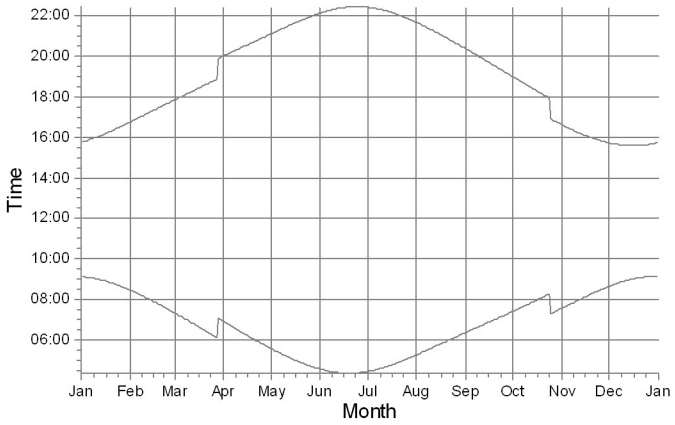
GW: Zītaru iela 5



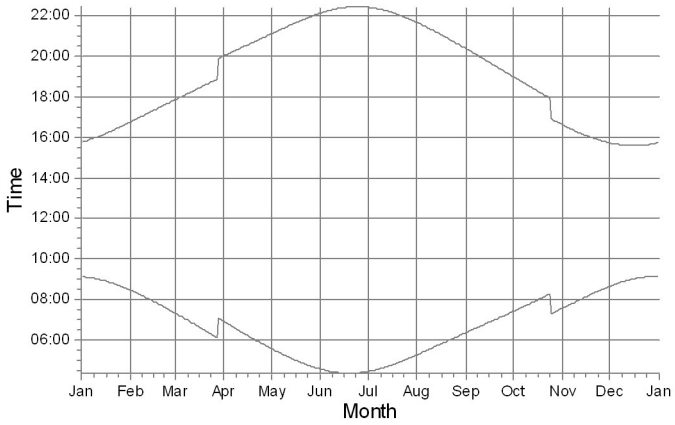
GX: Zītaru iela 6



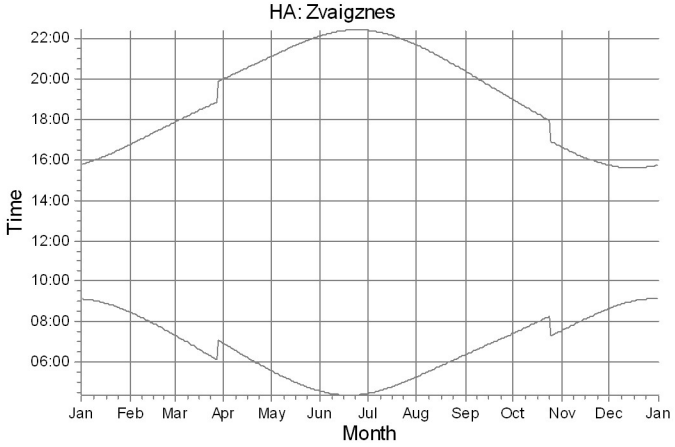
GY: Zītaru iela 7



GZ: Zītaru iela 8



HA: Zvaigznes



WTGs

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 1 - VES "Senlejas"

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:07 11:59-12:15/16 11:14-11:30/16	08:27 15:40-15:50/10	07:20	06:54 07:21-07:40/19	05:34 06:30-06:34/4	04:33
	15:46 09:53-10:14/21 10:38-10:57/19	16:46 09:00-09:50/50	17:52	20:01	21:07 06:03-06:17/14	22:09
2	09:06 12:00-12:15/15 11:15-11:30/15	08:25 15:42-15:46/4	07:17	06:51 07:20-07:40/20	05:31 06:01-06:18/17	04:32
	15:47 09:53-10:14/21 10:39-10:56/17	16:48 08:57-09:50/53	17:54	20:03	21:10	22:10
3	09:06 12:01-12:15/14 11:15-11:29/14 10:40-10:47/7	08:23 08:57-09:50/53	07:14	06:48 07:20-07:39/19	05:29 05:58-06:17/19	04:31
	15:48 09:53-10:15/22 10:50-10:54/4	16:51	17:57	20:06	21:12	22:12
4	09:05 12:03-12:14/11 11:16-11:29/13	08:21 08:57-09:50/53	07:12	06:46 07:21-07:39/18	05:27 05:56-06:17/21	04:29
	15:50 09:53-10:15/22 10:42-10:46/4	16:53	17:59	20:08	21:14	22:13
5	09:05 12:05-12:14/9 11:19-11:29/10	08:19 08:56-09:20/24	07:09	06:43 07:21-07:38/17	05:24 05:54-06:17/23	04:28
	15:51 09:54-10:16/22	16:56 09:22-09:50/28	18:01	20:10	21:16	22:15
6	09:04 12:08-12:12/4 11:21-11:28/7	08:17 08:56-09:21/25	07:06	06:40 07:21-07:37/16	05:22 05:52-06:17/25	04:27
	15:53 09:54-10:17/23	16:58 09:23-09:50/27	18:03	20:12	21:18	22:16
7	09:04 09:54-10:17/23	08:14 08:55-09:20/25	07:03	06:37 07:22-07:35/13	05:19 05:50-06:16/26	04:26
	15:54	17:00 09:24-09:48/24	18:06	20:14	21:21	22:17
8	09:03 09:55-10:18/23	08:12 08:56-09:21/25	07:01	06:34 07:25-07:32/7	05:17 05:48-06:15/27	04:26
	15:56	17:03 09:25-09:48/23	18:08	20:17	21:23	22:18
9	09:02 09:54-10:18/24	08:10 08:56-09:21/25	06:58	06:32	05:15 05:47-06:14/27	04:25
	15:58	17:05 09:26-09:46/20	18:10	20:19	21:25	22:19
10	09:01 09:55-10:18/23	08:07 08:38-08:44/6 09:28-09:46/18	06:55	06:29	05:13 05:47-06:13/26	04:24
	15:59	17:07 08:56-09:21/25	18:12	20:21	21:27	22:20
11	09:00 09:56-10:19/23	08:05 08:35-08:45/10 09:29-09:43/14	06:52	06:26	05:10 05:47-06:10/23	04:23
	16:01	17:10 08:56-09:20/24	18:15	20:23	21:29	22:21
12	08:59 09:55-10:19/24	08:03 08:33-08:47/14 09:34-09:40/6	06:50	06:23	05:08 05:47-06:09/22	04:23
	16:03	17:12 08:57-09:20/23	18:17	20:25	21:31	22:22
13	08:58 09:56-10:20/24	08:00 08:30-08:47/17	06:47	06:21	05:06 05:47-06:08/21	04:22
	16:05	17:15 08:58-09:19/21	18:19	20:28	21:33	22:23
14	08:57 09:56-10:20/24	07:58 08:27-08:48/21	06:44	06:18	05:04 05:48-06:07/19	04:22
	16:07	17:17 08:58-09:18/20	18:21	20:30	21:36	22:24
15	08:56 09:57-10:20/23	07:56 08:28-08:49/21	06:41 07:08-07:12/4	06:15	05:02 05:48-06:04/16	04:22
	16:09	17:19 09:00-09:17/17	18:24	20:32	21:38	22:25
16	08:54 09:58-10:20/22	07:53 08:27-08:49/22	06:39 07:05-07:13/8	06:13	05:00 05:49-06:00/11	04:21
	16:11	17:22 09:02-09:14/12	18:26	20:34	21:40	22:25
17	08:53 09:59-10:21/22	07:51 08:28-08:49/21	06:36 07:02-07:13/11	06:10 06:37-06:39/2	04:58 05:51-05:59/8	04:21
	16:13	17:24 09:07-09:11/4	18:28	20:37	21:42	22:26
18	08:52 10:00-10:20/20	07:48 08:27-08:49/22	06:33 06:59-07:13/14	06:07 06:34-06:40/6	04:56 05:55-05:56/1	04:21
	16:15	17:26	18:30	20:39	21:44	22:26
19	08:50 15:34-15:36/2 09:28-09:37/9	07:46 08:27-08:48/21	06:30 06:56-07:13/17	06:05 06:32-06:42/10	04:54	04:21
	16:17 10:00-10:20/20	17:29	18:33	20:41	21:46	22:27
20	08:49 15:34-15:38/4 09:26-09:39/13	07:43 08:29-08:48/19	06:27 06:54-07:13/19	06:02 06:29-06:43/14	04:52	04:21
	16:19 10:01-10:20/19	17:31	18:35	20:43	21:48	22:27
21	08:47 15:33-15:41/8 10:02-10:19/17	07:41 08:29-08:46/17	06:25 06:51-07:12/21	05:59 06:27-06:44/17	04:50	04:21
	16:21 09:23-09:41/18	17:33	18:37	20:45	21:50	22:27
22	08:46 15:33-15:43/10 10:03-10:18/15	07:38 08:30-08:45/15	06:22 06:48-07:11/23	05:57 06:24-06:43/19	04:48	04:21
	16:23 09:21-09:42/21	17:36	18:39	20:48	21:52	22:28
23	08:44 15:33-15:46/13 10:05-10:17/12	07:35 08:32-08:42/10	06:19 06:45-07:10/25	05:54 06:24-06:44/20	04:47	04:21
	16:25 09:19-09:44/25	17:38	18:41	20:50	21:53	22:28
24	08:42 15:33-15:48/15 10:07-10:15/8	07:33	06:16 06:42-07:07/25	05:51 06:23-06:43/20	04:45	04:22
	16:28 09:17-09:45/28	17:40	18:44	20:52	21:55	22:28
25	08:41 15:34-15:51/17	07:30	06:13 06:41-06:59/18	05:49 06:24-06:43/19	04:43	04:22
	16:30 09:15-09:46/31	17:43	18:46	20:54	21:57	22:28
26	08:39 15:34-15:52/18	07:28	06:11 06:42-07:00/18	05:46 06:24-06:43/19	04:42	04:23
	16:32 09:13-09:47/34	17:45	18:48	20:56	21:59	22:28
27	08:37 15:35-15:53/18	07:25	06:08 06:41-06:59/18	05:44 06:24-06:42/18	04:40	04:23
	16:34 09:12-09:48/36	17:47	18:50 06:34-06:35/1	20:59 06:12-06:13/1	22:01	22:28
28	08:35 15:35-15:53/18	07:22	06:05 06:42-06:57/15	05:41 06:25-06:41/16	04:38	04:24
	16:37 09:12-09:49/37	17:50	18:52 06:31-06:38/7	21:01 06:10-06:15/5	22:02	22:27
29	08:33 15:35-15:52/17 09:07-09:10/3		07:02 07:42-07:56/14	05:39 06:26-06:40/14	04:37	04:24
	16:39 09:13-09:48/35		19:55 07:28-07:39/11	21:03 06:08-06:17/9	22:04	22:27
30	08:31 15:36-15:51/15		06:59 07:45-07:54/9	05:36 06:27-06:37/10	04:36	04:25
	16:41 09:04-09:49/45		19:57 07:26-07:41/15	21:05 06:05-06:17/12	22:06	22:27
31	08:29 15:38-15:51/13		06:57 07:23-07:41/18		04:34	
	16:44 09:02-09:50/48		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1243	889	311	360	350	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 1 - VES "Senlejas"

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October	November	December
1	04:26	05:15 05:57-06:20/23	06:21	07:25	07:34 08:08-08:13/5 08:57-09:15/18	08:39 09:38-10:01/23
	22:26	21:41	20:23	19:00	16:38 08:26-08:51/25	15:43
2	04:27	05:17 05:57-06:22/25	06:23	07:27	07:36 08:25-08:50/25	08:41 09:38-10:02/24
	22:26	21:39	20:21	18:57	16:36 08:55-09:16/21	15:42
3	04:28	05:19 05:57-06:24/27	06:25	07:29	07:38 08:25-08:51/26	08:43 09:38-10:02/24
	22:25	21:37	20:18	18:54	16:33 08:54-09:18/24	15:41
4	04:29	05:21 05:56-06:24/28	06:27 07:22-07:29/7	07:31	07:41 08:25-08:50/25	08:44 09:39-10:02/23
	22:24	21:35	20:15	18:51	16:31 08:53-09:18/25	15:40
5	04:30	05:23 05:58-06:25/27	06:29 07:19-07:32/13	07:33	07:43 08:26-08:50/24	08:46 09:40-10:03/23
	22:24	21:33	20:12	18:48	16:29 08:53-09:19/26	15:40
6	04:31	05:26 06:00-06:26/26	06:32 07:17-07:33/16	07:35	07:45 08:26-08:49/23	08:48 11:54-11:56/2 11:07-11:14/7
	22:23	21:30	20:10	18:46	16:27 08:52-09:19/27	15:39 09:40-10:03/23
7	04:32	05:28 06:02-06:26/24	06:34 07:16-07:33/17	07:38	07:48 08:27-09:20/53	08:49 11:52-12:00/8 11:05-11:15/10
	22:22	21:28	20:07	18:43	16:24	15:38 09:40-10:03/23
8	04:33	05:30 06:04-06:26/22	06:36 07:15-07:34/19	07:40	07:50 08:28-09:21/53	08:51 11:51-12:02/11 11:05-11:17/12
	22:21	21:26	20:04	18:40	16:22	15:37 09:41-10:03/22 10:30-10:34/4
9	04:35	05:32 06:06-06:26/20	06:38 07:14-07:34/20	07:42	07:52 15:13-15:18/5	08:52 11:51-12:04/13 11:05-11:18/13 10:29-10:36/7
	22:20	21:23	20:01	18:37	16:20 08:28-09:21/53	15:37 09:42-10:04/22 10:40-10:43/3
10	04:36	05:34 06:08-06:26/18	06:40 07:14-07:33/19	07:44	07:54 15:11-15:21/10	08:54 11:50-12:04/14 11:04-11:19/15 10:28-10:37/9
	22:19	21:21	19:58	18:35	16:18 08:31-09:21/50	15:36 09:42-10:03/21 10:38-10:44/6
11	04:38	05:36 06:10-06:26/16	06:42 07:13-07:33/20	07:46	07:57 15:09-15:22/13	08:55 11:50-12:06/16 11:04-11:20/16
	22:18	21:18	19:56	18:32	16:16 08:33-09:21/48	15:36 09:43-10:04/21 10:28-10:47/19
12	04:39	05:38 06:38-06:44/6	06:44 07:14-07:32/18	07:48	07:59 15:08-15:23/15	08:56 11:49-12:07/18 11:04-11:21/17
	22:16	21:16 06:12-06:26/14	19:53	18:29	16:14 08:36-09:21/45	15:36 09:43-10:04/21 10:28-10:48/20
13	04:40	05:40 06:35-06:46/11	06:46 07:36-07:44/8	07:51	08:01 15:07-15:23/16 08:39-08:42/3	08:57 11:49-12:07/18 11:04-11:21/17
	22:15	21:13 06:14-06:25/11	19:50 07:16-07:31/15	18:27	16:12 08:45-09:20/35	15:35 09:43-10:04/21 10:27-10:49/22
14	04:42	05:43 06:33-06:48/15	06:48 07:33-07:46/13	07:53	08:04 15:07-15:25/18	08:59 11:50-12:09/19 11:04-11:23/19
	22:14	21:11 06:16-06:24/8	19:47 07:18-07:30/12	18:24	16:10 08:44-09:21/37	15:35 09:45-10:05/20 10:28-10:50/22
15	04:44	05:45 06:32-06:49/17	06:51 07:31-07:47/16	07:55	08:06 15:06-15:24/18	09:00 11:50-12:09/19 11:04-11:23/19
	22:12	21:08 06:18-06:22/4	19:44 07:20-07:28/8	18:21	16:08 08:45-09:21/36	15:35 09:45-10:05/20 10:28-10:51/23
16	04:45	05:47 06:31-06:49/18	06:53 07:30-07:47/17	07:57	08:08 15:07-15:25/18	09:01 11:50-12:10/20 11:05-11:24/19
	22:11	21:06	19:42 07:22-07:25/3	18:19	16:06 08:46-09:20/34	15:35 09:46-10:05/19 10:28-10:52/24
17	04:47	05:49 06:31-06:50/19	06:55 07:30-07:48/18	08:00	08:10 15:08-15:25/17	09:02 11:50-12:11/21 11:05-11:25/20
	22:09	21:03	19:39	18:16	16:04 08:49-09:20/31	15:35 09:47-10:06/19 10:29-10:53/24
18	04:49	05:51 06:30-06:50/20	06:57 07:30-07:48/18	08:02 09:06-09:11/5	08:12 15:07-15:22/15 09:41-09:49/8	09:02 11:51-12:11/20 11:05-11:25/20
	22:08	21:01	19:36	18:13	16:02 08:51-09:19/28	15:35 09:48-10:06/18 10:29-10:53/24
19	04:50	05:53 06:30-06:50/20	06:59 07:29-07:54/25	08:04 09:02-09:14/12	08:15 15:08-15:21/13 09:40-09:52/12	09:03 11:50-12:11/21 11:05-11:25/20
	22:06	20:58	19:33	18:11	16:01 08:54-09:19/25	15:35 09:49-10:07/18 10:30-10:54/24
20	04:52	05:55 06:30-06:49/19	07:01 07:31-07:56/25	08:06 09:01-09:16/15	08:17 15:08-15:18/10 09:38-09:53/15	09:04 11:51-12:12/21 11:06-11:26/20
	22:05	20:56	19:30	18:08	15:59 08:56-09:17/21	15:36 09:49-10:07/18 10:29-10:54/25
21	04:54	05:58 06:30-06:49/19	07:03 07:33-07:57/24	08:09 08:59-09:17/18	08:19 15:09-15:17/8 09:38-09:55/17	09:05 11:52-12:13/21 11:07-11:27/20
	22:03	20:53	19:28	18:05	15:57 08:59-09:17/18	15:36 09:50-10:07/17 10:30-10:55/25
22	04:56	06:00 06:32-06:48/16	07:05 07:35-07:57/22	08:11 08:59-09:18/19	08:21 15:10-15:14/4 09:02-09:15/13	09:05 11:52-12:13/21 11:07-11:27/20
	22:01	20:50	19:25	18:03	15:56 09:37-09:56/19	15:37 09:50-10:07/17 10:30-10:55/25
23	04:58	06:02 06:34-06:47/13	07:07 07:37-07:57/20	08:13 08:58-09:18/20	08:23 15:10-15:12/2 09:05-09:14/9	09:06 11:53-12:14/21 11:08-11:28/20
	21:59	20:48	19:22	18:00	15:54 09:37-09:57/20	15:37 09:51-10:08/17 10:31-10:56/25
24	04:59	06:04 06:36-06:46/10	07:10 07:40-07:57/17	08:15 08:58-09:19/21	08:25 09:37-09:57/20	09:06 11:53-12:14/21 11:08-11:28/20
	21:58	20:45	19:19	17:58	15:52	15:38 09:51-10:09/18 10:31-10:56/25
25	05:01	06:06 06:38-06:44/6	07:12 07:41-07:56/15	07:18 07:57-08:18/21	08:27 09:36-09:58/22	09:06 11:54-12:14/20 11:08-11:28/20
	21:56	20:42	19:16	16:55 08:34-08:42/8	15:51	15:38 09:51-10:09/18 10:32-10:56/24
26	05:03 06:03-06:08/5	06:08 06:40-06:41/1	07:14 07:43-07:55/12	07:20 07:57-08:19/22	08:29 09:37-09:59/22	09:07 11:54-12:15/21 11:09-11:29/20
	21:54	20:40	19:13	16:53 08:32-08:45/13	15:50	15:39 09:51-10:10/19 10:32-10:57/25
27	05:05 06:01-06:11/10	06:10	07:16 07:46-07:55/9	07:22 07:57-08:18/21	08:31 09:37-09:59/22	09:07 11:55-12:15/20 11:09-11:29/20
	21:52	20:37	19:11	16:50 08:29-08:47/18	15:48	15:40 09:51-10:10/19 10:33-10:57/24
28	05:07 06:00-06:12/12	06:12	07:18 07:48-07:53/5	07:24 07:58-08:18/20	08:33 09:36-10:00/24	09:07 11:56-12:15/19 11:10-11:29/19
	21:50	20:34	19:08	16:48 08:29-08:48/19	15:47	15:41 09:51-10:11/20 10:34-10:57/23
29	05:09 05:58-06:15/17	06:15	07:20	07:27 08:00-08:17/17	08:35 09:36-10:00/24	09:07 11:57-12:16/19 11:11-11:30/19
	21:48	20:32	19:05	16:45 08:27-08:49/22	15:46	15:42 09:52-10:12/20 10:35-10:57/22
30	05:11 05:58-06:17/19	06:17	07:22	07:29 08:03-08:16/13 09:02-09:10/8	08:37 09:38-10:01/23	09:07 11:58-12:16/18 11:12-11:30/18
	21:46	20:29	19:02	16:43 08:27-08:50/23	15:44	15:43 09:52-10:13/21 10:36-10:58/22
31	05:13 05:57-06:19/22	06:19		07:31 08:05-08:14/9 08:58-09:13/15		09:07 11:58-12:15/17 11:12-11:30/18
	21:44	20:26		16:40 08:26-08:50/24		15:44 09:52-10:13/21 10:36-10:57/21
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	85	503	451	383	1316	2064

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 2 - Z1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:07 10:05-10:50/45	08:27 09:26-10:37/71	07:20	06:54 07:25-08:01/36	05:34 06:52-07:09/17	04:33 20:58-21:21/23 06:03-06:24/21
	15:46 09:51-10:04/13	16:46	17:52	20:01	21:07	22:09 05:12-05:56/44
2	09:06 09:51-10:51/60	08:25 09:25-10:36/71	07:17	06:51 07:23-07:59/36	05:31 06:54-07:07/13	04:32 20:57-21:22/25 06:04-06:23/19
	15:47	16:49	17:54	20:03	21:10	22:10 05:11-05:56/45
3	09:06 09:51-10:51/60	08:23 09:25-10:34/69	07:14	06:48 07:23-07:56/33	05:29 06:09-06:17/8	04:31 20:57-21:22/25 06:04-06:22/18
	15:48	16:51	17:57	20:06	21:12 06:59-07:02/3	22:12 05:11-05:57/46
4	09:05 09:50-10:51/61	08:21 09:25-10:18/53	07:12	06:46 07:23-07:54/31	05:27 06:05-06:19/14	04:30 20:57-21:23/26 06:05-06:22/17
	15:50	16:53 10:19-10:33/14	17:59	20:08	21:14	22:13 05:11-05:57/46
5	09:05 09:51-10:52/61	08:19 09:24-10:17/53	07:09	06:43 07:22-07:53/31	05:24 06:03-06:21/18	04:29 20:56-21:23/27 06:06-06:21/15
	15:51	16:56 10:23-10:27/4	18:01	20:10	21:16	22:14 05:10-05:57/47
6	09:04 09:51-10:53/62	08:17 09:24-10:18/54	07:06	06:40 07:21-07:51/30	05:22 06:01-06:23/22	04:28 20:56-21:23/27 06:07-06:20/13
	15:53	16:58	18:03	20:12	21:18	22:16 05:10-05:57/47
7	09:04 09:51-10:53/62	08:14 09:23-10:17/54	07:03	06:37 07:22-07:50/28	05:20 06:00-06:24/24	04:27 20:56-21:23/27 06:09-06:19/10
	15:54	17:00	18:06	20:14	21:21	22:17 05:11-05:58/47
8	09:03 09:50-10:52/62	08:12 09:23-10:17/54	07:01	06:35 07:22-07:46/24	05:17 05:59-06:25/26	04:26 20:56-21:24/28 06:10-06:18/8
	15:56	17:03	18:08	20:17 07:11-07:12/1	21:23	22:18 05:10-05:58/48
9	09:02 09:50-10:53/63	08:10 09:23-10:17/54	06:58	06:32 07:22-07:43/21	05:15 05:59-06:26/27	04:25 20:56-21:24/28 06:12-06:16/4
	15:58	17:05	18:10	20:19 07:04-07:17/13	21:25	22:19 05:10-05:58/48
10	09:01 09:45-10:53/68	08:07 09:23-10:17/54	06:55	06:29 07:24-07:42/18	05:13 05:58-06:26/28	04:24 20:56-21:25/29
	15:59	17:08	18:13	20:21 07:01-07:19/18	21:27	22:20 05:11-05:58/47
11	09:00 09:43-10:54/71	08:05 09:23-10:15/52	06:52	06:26 07:24-07:40/16	05:11 05:57-06:27/30	04:24 20:56-21:25/29
	16:01	17:10	18:15	20:23 07:00-07:21/21	21:29	22:21 05:11-05:58/47
12	08:59 09:42-10:53/71	08:03 09:24-10:15/51	06:50	06:24 07:26-07:37/11	05:08 05:57-06:27/30	04:23 20:56-21:26/30
	16:03	17:12	18:17	20:25 06:58-07:22/24	21:31	22:22 05:11-05:59/48
13	08:58 09:41-10:54/73	08:00 09:24-10:14/50	06:47	06:21 06:56-07:23/27	05:06 05:56-06:27/31	04:23 20:57-21:26/29
	16:05	17:15	18:19	20:28	21:33	22:23 05:11-05:59/48
14	08:57 09:40-10:53/73	07:58 09:24-10:12/48	06:44	06:18 06:54-07:23/29	05:04 05:56-06:27/31	04:22 20:56-21:26/30
	16:07	17:17	18:22	20:30	21:35	22:24 05:11-05:59/48
15	08:56 09:40-10:54/74	07:56 09:25-10:11/46	06:41	06:15 06:52-07:23/31	05:02 05:56-06:27/31	04:22 20:56-21:26/30
	16:09	17:19	18:24	20:32	21:38	22:25 05:11-05:59/48
16	08:54 09:40-10:53/73	07:53 09:25-10:08/43	06:39	06:13 06:51-07:23/32	05:00 05:56-06:27/31	04:22 20:57-21:27/30
	16:11	17:22	18:26	20:34	21:40	22:25 05:11-05:59/48
17	08:53 09:39-10:52/73	07:51 09:26-10:05/39	06:36	06:10 06:50-07:23/33	04:58 05:56-06:28/32	04:21 20:57-21:27/30
	16:13	17:24	18:28	20:37	21:42	22:26 05:11-06:00/49
18	08:52 09:39-10:52/73	07:48 09:27-09:58/31	06:33	06:07 06:49-07:23/34	04:56 05:56-06:28/32	04:21 20:57-21:27/30
	16:15	17:26	18:30	20:39	21:44	22:26 05:12-06:00/48
19	08:50 09:39-10:51/72	07:46 09:28-09:56/28	06:30	06:05 06:48-07:23/35	04:54 05:35-05:44/9	04:21 20:57-21:28/31
	16:17	17:29	18:33	20:41	21:46 05:56-06:27/31	22:27 05:12-06:00/48
20	08:49 09:39-10:50/71	07:43 09:30-09:55/25	06:27	06:02 06:47-07:22/35	04:52 05:34-05:47/13	04:21 20:57-21:28/31
	16:19	17:31	18:35	20:43	21:48 05:57-06:28/31	22:27 05:12-06:00/48
21	08:47 09:39-10:39/60	07:41 09:31-09:53/22	06:25 06:52-07:02/10	05:59 06:47-07:21/34	04:50 05:32-05:48/16	04:21 20:57-21:28/31
	16:21 10:41-10:47/6	17:34	18:37	20:45	21:50 05:56-06:27/31	22:27 05:12-06:00/48
22	08:46 09:39-10:39/60	07:38 09:34-09:49/15	06:22 06:49-07:04/15	05:57 06:47-07:20/33	04:49 05:30-05:49/19	04:21 20:57-21:28/31
	16:23	17:36	18:39	20:48	21:51 05:56-06:27/31	22:28 05:13-06:01/48
23	08:44 09:38-10:40/62	07:35 09:38-09:44/6	06:19 06:47-07:05/18	05:54 06:47-07:20/33	04:47 05:30-05:51/21	04:22 20:58-21:29/31
	16:26	17:38	18:41	20:50	21:53 05:57-06:27/30	22:28 05:13-06:01/48
24	08:42 09:38-10:40/62	07:33	06:16 06:45-07:05/20	05:52 06:47-07:19/32	04:45 05:28-05:51/23	04:22 20:58-21:29/31
	16:28	17:41	18:44	20:52	21:55 05:57-06:26/29	22:28 05:13-06:01/48
25	08:41 09:37-10:40/63	07:30	06:13 06:42-07:06/24	05:49 06:47-07:17/30	04:43 21:05-21:12/7 05:58-06:26/28	04:22 20:59-21:29/30
	16:30	17:43	18:46	20:54	21:57 05:28-05:52/24	22:28 05:14-06:02/48
26	08:39 09:33-10:40/67	07:28	06:11 06:39-07:06/27	05:46 06:48-07:15/27	04:42 21:03-21:15/12 05:19-05:20/1	04:23 20:59-21:29/30
	16:32	17:45	18:48	20:56	21:59 05:28-05:53/25 05:59-06:26/27	22:28 05:13-06:01/48
27	08:37 09:31-10:40/69	07:25	06:08 06:37-07:06/29	05:44 06:48-07:14/26	04:40 21:00-21:15/15 05:15-05:23/8	04:23 20:59-21:30/31
	16:35	17:47	18:50	20:59	22:01 05:27-05:53/26 05:59-06:25/26	22:28 05:14-06:02/48
28	08:35 09:30-10:40/70	07:22	06:05 06:35-07:05/30	05:41 06:49-07:13/24	04:39 21:00-21:17/17 05:14-05:25/11	04:24 20:59-21:29/30
	16:37	17:50	18:52	21:01	22:02 05:27-05:54/27 05:59-06:25/26	22:27 05:14-06:02/48
29	08:33 09:28-10:39/71		07:02 07:30-08:04/34	05:39 06:50-07:12/22	04:37 20:59-21:18/19 06:00-06:25/25	04:25 21:00-21:30/30
	16:39		19:55	21:03	22:04 05:13-05:55/42	22:27 05:14-06:02/48
30	08:31 09:27-10:38/71		07:00 07:28-08:04/36	05:36 06:50-07:10/20	04:36 20:58-21:19/21 06:01-06:24/23	04:25 21:00-21:30/30
	16:42		19:57	21:05	22:06 05:12-05:55/43	22:27 05:15-06:03/48
31	08:29 09:27-10:38/71		06:57 07:26-08:03/37		04:34 20:58-21:20/22 06:02-06:24/22	
	16:44		19:59		22:07 05:12-05:56/44	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	2073	1061	280	929	1273	2420

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 2 - Z1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October	November	December
1	04:26 21:00-21:29/29	05:15 06:07-06:37/30	06:21 07:23-07:39/16	07:25	07:34 08:53-09:46/53	08:39 09:25-10:36/71
	22:26 05:15-06:02/47	21:41	20:23 06:59-07:20/21	19:00	16:38	15:44
2	04:27 21:00-21:30/30	05:17 06:08-06:37/29	06:23 07:22-07:40/18	07:27	07:36 08:52-09:46/54	08:41 09:28-10:36/68
	22:26 05:15-06:03/48	21:39	20:21 07:00-07:18/18	18:57	16:36	15:42
3	04:28 21:01-21:30/29	05:19 06:08-06:36/28	06:25 07:20-07:41/21	07:29	07:38 08:53-09:47/54	08:43 09:34-10:37/63
	22:25 05:15-06:03/48	21:37	20:18 07:02-07:15/13	18:54	16:34	15:42
4	04:29 21:01-21:30/29 06:16-06:22/6	05:22 06:09-06:36/27	06:27 07:19-07:43/24	07:31	07:41 08:53-09:47/54	08:44 09:35-10:37/62
	22:24 05:16-06:03/47	21:35	20:15 07:07-07:10/3	18:51	16:31	15:41
5	04:30 21:02-21:30/28 06:15-06:24/9	05:24 06:09-06:34/25	06:30 07:18-07:46/28	07:33	07:43 08:53-09:48/55	08:46 09:36-10:38/62
	22:24 05:16-06:03/47	21:33	20:12	18:48	16:29	15:40
6	04:31 21:02-21:30/28 06:14-06:25/11	05:26 06:10-06:33/23	06:32 07:18-07:47/29	07:35	07:45 08:53-09:47/54	08:48 09:36-10:38/62
	22:23 05:16-06:03/47	21:30	20:10	18:46	16:27 09:52-09:58/6	15:39
7	04:32 21:03-21:30/27 06:13-06:27/14	05:28 06:11-06:32/21	06:34 07:17-07:48/31	07:38	07:48 08:54-09:48/54	08:49 09:37-10:38/61
	22:22 05:17-06:03/46	21:28	20:07	18:43	16:25 09:49-10:03/14	15:38
8	04:34 21:03-21:29/26 06:12-06:28/16	05:30 06:13-06:30/17	06:36 07:17-07:48/31	07:40	07:50 08:55-10:05/70	08:51 09:39-10:39/60
	22:21 05:17-06:03/46	21:26	20:04	18:40	16:22	15:38
9	04:35 21:03-21:29/26 06:11-06:28/17	05:32 06:15-06:28/13	06:38 07:17-07:49/32	07:42	07:52 08:56-10:07/71	08:52 09:40-10:40/60
	22:20 05:18-06:04/46	21:23	20:01	18:37	16:20	15:37
10	04:36 21:05-21:29/24 06:11-06:30/19	05:34 06:18-06:24/6	06:40 07:17-07:52/35	07:44	07:54 08:57-10:08/71	08:54 09:40-10:40/60
	22:19 05:19-06:04/45	21:21 07:05-07:13/8	19:59	18:35	16:18	15:37
11	04:38 21:05-21:29/24 06:11-06:31/20	05:36 07:02-07:16/14	06:42 07:17-07:53/36	07:46	07:57 08:57-10:09/72	08:55 09:56-10:41/45
	22:18 05:19-06:04/45	21:18	19:56	18:32	16:16	15:36 09:42-09:55/13
12	04:39 21:05-21:28/23 06:10-06:31/21	05:38 07:00-07:18/18	06:44 07:18-07:54/36	07:48	07:59 08:59-10:10/71	08:56 09:57-10:41/44
	22:16 05:19-06:03/44	21:16	19:53	18:29	16:14	15:36 09:42-09:55/13
13	04:41 21:06-21:27/21 06:10-06:33/23	05:41 06:58-07:19/21	06:46 07:19-07:55/36	07:51	08:01 09:00-10:11/71	08:57 09:58-10:41/43
	22:15 05:21-06:04/43	21:13	19:50	18:27	16:12	15:36 09:43-09:54/11
14	04:42 21:07-21:27/20 06:09-06:33/24	05:43 06:57-07:20/23	06:49 07:20-07:55/35	07:53	08:03 09:02-10:12/70	08:59 09:59-10:42/43
	22:14 05:21-06:03/42	21:11	19:47	18:24	16:10	15:35 09:45-09:55/10
15	04:44 21:08-21:26/18 05:22-05:34/12	05:45 06:56-07:21/25	06:51 07:24-07:55/31	07:55	08:06 09:04-10:13/69	09:00 10:00-10:42/42
	22:12 05:35-06:03/28 06:08-06:33/25	21:08	19:45	18:21	16:08	15:35 09:46-09:55/9
16	04:45 21:10-21:26/16 05:24-05:34/10	05:47 06:55-07:22/27	06:53 07:26-07:55/29	07:57	08:08 09:06-10:13/67	09:01 10:01-10:43/42
	22:11 05:36-06:03/27 06:08-06:35/27	21:06	19:42	18:19	16:06	15:35 09:47-09:55/8
17	04:47 21:10-21:24/14 05:26-05:31/5	05:49 06:54-07:22/28	06:55 07:27-07:55/28	08:00	08:10 09:11-10:14/63	09:02 10:02-10:43/41
	22:09 05:36-06:02/26 06:08-06:35/27	21:03	19:39	18:16	16:04	15:35 09:48-09:55/7
18	04:49 21:13-21:23/10 06:08-06:36/28	05:51 06:54-07:24/30	06:57 07:29-07:54/25	08:02	08:12 09:11-10:14/63	09:02 10:03-10:44/41
	22:08 05:38-06:02/24	21:01	19:36	18:13	16:02	15:35 09:49-09:55/6
19	04:50 21:16-21:18/2 06:07-06:36/29	05:53 06:53-07:25/32	06:59 07:33-07:53/20	08:04 10:07-10:17/10	08:15 09:13-10:15/62	09:03 10:03-10:43/40
	22:06 05:38-06:01/23	20:58	19:33	18:11	16:01	15:36 09:49-09:54/5
20	04:52 05:39-06:01/22	05:55 06:53-07:25/32	07:01 07:33-07:52/19	08:06 10:04-10:22/18	08:17 09:14-10:14/60	09:04 10:04-10:44/40
	22:05 06:07-06:36/29	20:56	19:30	18:08	15:59	15:36 09:50-09:54/4
21	04:54 05:40-06:00/20	05:58 06:52-07:26/34	07:03 07:34-07:50/16	08:09 10:01-10:24/23	08:19 09:15-10:15/60	09:05 10:05-10:45/40
	22:03 06:07-06:37/30	20:53	19:28	18:05	15:57 10:17-10:23/6	15:36 09:51-09:55/4
22	04:56 05:41-05:59/18	06:00 06:52-07:26/34	07:05 07:35-07:47/12	08:11 09:59-10:26/27	08:21 09:15-10:26/71	09:05 10:05-10:45/40
	22:01 06:06-06:37/31	20:50	19:25	18:03	15:56	15:37 09:51-09:55/4
23	04:58 05:43-05:58/15	06:02 06:52-07:26/34	07:08 07:39-07:43/4	08:13 09:58-10:27/29	08:23 09:16-10:28/72	09:06 10:06-10:46/40
	21:59 06:07-06:38/31	20:48	19:22	18:00	15:54	15:37 09:52-09:56/4
24	05:00 05:45-05:56/11	06:04 06:52-07:26/34	07:10	08:15 09:57-10:28/31	08:25 09:16-10:29/73	09:06 10:06-10:46/40
	21:58 06:07-06:38/31	20:45	19:19	17:58	15:53	15:38 09:52-09:56/4
25	05:01 05:48-05:52/4	06:06 06:52-07:26/34	07:12	07:18 08:55-09:36/41	08:27 09:17-10:30/73	09:06 10:06-10:47/41
	21:56 06:06-06:38/32	20:42	19:16	16:55	15:51	15:39 09:52-09:57/5
26	05:03 06:06-06:38/32	06:08 06:52-07:26/34	07:14	07:20 08:55-09:39/44	08:29 09:19-10:32/73	09:07 10:06-10:47/41
	21:54	20:40	19:14	16:53	15:50	15:39 09:52-09:58/6
27	05:05 06:07-06:38/31	06:10 06:53-07:25/32	07:16	07:22 08:54-09:41/47	08:31 09:19-10:33/74	09:07 10:06-10:48/42
	21:52	20:37	19:11	16:50	15:48	15:40 09:52-09:59/7
28	05:07 06:07-06:38/31	06:13 06:54-07:25/31	07:18	07:24 08:54-09:43/49	08:33 09:20-10:33/73	09:07 10:06-10:48/42
	21:50	20:34	19:08	16:48	15:47	15:41 09:52-10:00/8
29	05:09 06:06-06:37/31	06:15 06:55-07:24/29	07:20	07:27 08:53-09:43/50	08:35 09:21-10:34/73	09:07 10:06-10:49/43
	21:48	20:32	19:05	16:45	15:46	15:42 09:52-10:02/10
30	05:11 06:06-06:37/31	06:17 07:31-07:32/1	07:22	07:29 08:53-09:45/52	08:37 09:24-10:35/71	09:07 10:06-10:50/44
	21:46	20:29 06:56-07:23/27	19:02	16:43	15:45	15:43 09:52-10:03/11
31	05:13 06:07-06:37/30	06:19 07:26-07:37/11		07:31 08:53-09:45/52		09:07 10:06-10:49/43
	21:44	20:26 06:58-07:22/24		16:41		15:44 09:51-10:03/12
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	1996	836	647	473	1997	1667

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 3 - Z2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:07 13:48-14:15/27 11:27-12:02/35 13:18-13:39/21	08:27	07:20 08:06-09:08/62	06:54 07:30-08:39/69	05:34 06:31-07:26/55	04:33 06:13-07:19/66
	15:46 09:53-11:24/91 12:06-12:42/36	16:46	17:52	20:01	21:08 07:38-08:16/38	22:09
2	09:06 13:50-14:16/26 11:27-12:02/35 13:19-13:39/20	08:25	07:17 07:44-07:55/11	06:51 07:30-08:38/68	05:31 06:28-07:26/58	04:32 06:14-07:19/65
	15:47 09:52-11:24/92 12:06-12:42/36	16:48	17:54 08:05-09:08/63	20:03	21:10 07:39-08:14/35	22:10
3	09:06 13:50-14:16/26 11:27-12:02/35 13:19-13:39/20	08:23	07:14 07:43-07:57/14	06:48 07:31-08:35/64	05:29 06:24-07:26/62	04:31 06:14-07:19/65
	15:48 09:52-11:23/91 12:07-12:42/35	16:51	17:57 08:05-09:07/62	20:06	21:12 07:40-08:12/32	22:12
4	09:05 13:50-14:16/26 11:27-12:02/35 13:20-13:38/18	08:21	07:12 07:41-08:05/24	06:46 07:31-08:34/63	05:27 06:23-07:26/63	04:30 06:14-07:18/64
	15:50 09:53-11:24/91 12:07-12:42/35	16:53	17:59 08:06-09:07/61	20:08	21:14 07:41-08:10/29	22:13
5	09:05 13:52-14:17/25 11:29-12:03/34 13:22-13:39/17	08:19	07:09 07:39-09:06/87	06:43 07:31-08:32/61	05:24 06:21-07:27/66	04:28 06:14-07:18/64
	15:51 09:53-11:24/91 12:09-12:43/34	16:56	18:01	20:10	21:16 07:43-08:08/25	22:15
6	09:04 13:52-14:18/26 11:29-12:04/35 13:23-13:39/16	08:17 08:49-08:55/6	07:06 07:38-09:05/87	06:40 07:32-08:31/59	05:22 06:20-07:27/67	04:27 06:14-07:18/64
	15:53 09:53-11:24/91 12:09-12:43/34	16:58	18:03	20:12	21:18 07:46-08:05/19	22:16
7	09:04 13:53-14:18/25 11:30-12:04/34 12:10-12:44/34	08:14 08:45-08:57/12	07:03 07:37-09:03/86	06:37 07:34-08:31/57	05:20 06:19-07:27/68	04:27 06:15-07:18/63
	15:54 09:53-11:24/91 13:24-13:38/14	17:00	18:06	20:14	21:21 07:50-08:01/11	22:17
8	09:03 13:52-14:17/25 11:30-12:04/34 12:10-12:43/33	08:12 08:44-09:00/16	07:01 07:37-09:01/84	06:34 07:37-08:29/52	05:17 06:18-07:27/69	04:26 06:15-07:18/63
	15:56 09:53-11:23/90 13:25-13:38/13	17:03	18:08	20:17	21:23	22:18
9	09:02 13:53-14:17/24 11:30-12:04/34 12:10-12:43/33	08:10 08:42-09:00/18	06:58 07:37-09:01/84	06:32 07:38-08:28/50	05:15 06:17-07:27/70	04:25 06:15-07:17/62
	15:58 09:53-11:22/89 13:26-13:36/10	17:05	18:10	20:19	21:25	22:19
10	09:01 13:54-14:18/24 11:31-12:04/33 12:11-12:43/32	08:07 08:41-09:02/21	06:55 07:36-08:58/82	06:29 07:36-08:28/52	05:13 06:16-07:27/71	04:24 06:16-07:18/62
	15:59 09:53-11:21/88 13:29-13:35/6	17:07	18:13	20:21	21:27	22:20
11	09:00 13:56-14:18/22 11:32-12:04/32	08:05 08:37-09:02/25	06:52 07:36-08:57/81	06:26 07:36-08:29/53	05:11 06:15-07:27/72	04:24 06:16-07:17/61
	16:01 09:54-11:18/84 12:12-12:44/32	17:10	18:15	20:23	21:29	22:21
12	08:59 13:56-14:17/21 11:32-12:04/32	08:03 08:36-09:03/27	06:50 07:35-08:56/81	06:24 07:35-08:28/53	05:08 06:14-07:27/73	04:23 06:17-07:17/60
	16:03 09:53-11:16/83 12:13-12:43/30	17:12	18:17	20:25	21:31	22:22
13	08:58 13:57-14:18/21 11:34-12:04/30	08:00 08:30-09:05/35	06:47 07:35-08:55/80	06:21 07:34-08:28/54	05:06 06:14-07:26/72	04:22 06:17-07:18/61
	16:05 09:54-11:16/82 12:14-12:43/29	17:15	18:19	20:28	21:33	22:23
14	08:57 13:58-14:17/19 11:34-12:04/30	07:58 08:28-09:06/38	06:44 07:36-08:55/79	06:18 07:34-08:29/55	05:04 06:13-07:26/73	04:22 06:17-07:17/60
	16:07 09:54-11:16/82 12:15-12:43/28	17:17	18:21	20:30	21:36	22:24
15	08:56 14:00-14:17/17 11:36-12:04/28	07:56 08:25-09:08/43	06:41 07:23-08:54/91	06:15 07:33-08:28/55	05:02 06:13-07:25/72	04:22 06:17-07:17/60
	16:09 09:55-11:17/82 12:16-12:43/27	17:19	18:24	20:32	21:38	22:25
16	08:54 14:01-14:16/15 11:36-12:03/27	07:53 08:23-09:09/46	06:39 07:19-08:53/94	06:13 07:34-08:28/54	05:00 06:12-07:25/73	04:21 06:18-07:17/59
	16:11 09:55-11:17/82 12:17-12:42/25	17:22	18:26	20:34	21:40	22:25
17	08:53 14:02-14:14/12 11:37-12:02/25	07:51 08:22-09:10/48	06:36 07:17-08:51/94	06:10 07:33-08:28/55	04:58 06:12-07:24/72	04:21 06:18-07:18/60
	16:13 09:56-11:17/81 12:18-12:41/23	17:24	18:28	20:37	21:42	22:26
18	08:52 14:06-14:13/7 11:39-12:03/24	07:48 08:19-09:11/52	06:33 07:15-08:50/95	06:07 07:32-08:27/55	04:56 06:12-07:25/73	04:21 06:18-07:18/60
	16:15 09:56-11:17/81 12:20-12:41/21	17:26	18:30	20:39	21:44	22:26
19	08:50 09:56-10:44/48 11:40-12:02/22	07:46 08:16-09:11/55	06:30 07:13-08:11/58	06:05 07:33-08:27/54	04:54 06:12-07:24/72	04:21 06:19-07:18/59
	16:17 10:46-11:17/31 12:22-12:40/18	17:29	18:33 08:14-08:48/34	20:41	21:46	22:27
20	08:49 09:57-10:43/46 11:42-12:00/18	07:43 08:15-09:12/57	06:27 07:13-08:11/58	06:02 07:32-08:26/54	04:52 06:11-07:23/72	04:21 06:19-07:18/59
	16:19 10:46-11:17/31 12:24-12:38/14	17:31	18:35 08:16-08:46/30	20:43 06:57-07:11/14	21:48	22:27
21	08:47 09:58-10:42/44 11:44-11:59/15	07:41 08:14-09:12/58	06:25 07:10-08:10/60	05:59 07:33-08:26/53	04:50 06:12-07:23/71	04:21 06:19-07:18/59
	16:21 10:47-11:16/29 12:27-12:35/8	17:33	18:37 08:17-08:44/27	20:45 06:54-07:15/21	21:50	22:27
22	08:46 09:58-10:31/33 11:47-11:56/9	07:38 08:13-09:11/58	06:22 07:06-08:08/62	05:57 07:32-08:25/53	04:48 06:11-07:22/71	04:21 06:19-07:18/59
	16:23 10:48-11:16/28 10:32-10:39/7	17:36	18:39 08:19-08:41/22	20:48 06:51-07:17/26	21:52	22:28
23	08:44 09:59-10:31/32	07:35 08:12-09:12/60	06:19 07:04-08:06/62	05:54 07:33-08:25/52	04:47 06:12-07:22/70	04:22 06:20-07:19/59
	16:26 10:49-11:15/26	17:38	18:41 08:23-08:36/13	20:50 06:49-07:19/30	21:53	22:28
24	08:42 10:00-10:30/30	07:33 08:10-09:11/61	06:16 07:01-08:04/63	05:52 07:33-08:23/50	04:45 06:11-07:21/70	04:22 06:19-07:19/60
	16:28 10:50-11:15/25	17:40	18:44	20:52 06:46-07:20/34	21:55	22:28
25	08:41 10:02-10:29/27	07:30 08:09-09:11/62	06:13 07:46-08:01/15 07:00-07:45/45	05:49 07:33-08:23/50	04:43 06:12-07:21/69	04:22 06:20-07:20/60
	16:30 10:52-11:14/22	17:43	18:46 06:41-06:48/7	20:54 06:45-07:22/37	21:57	22:28
26	08:39 10:18-10:27/9 10:04-10:15/11	07:28 08:08-09:10/62	06:11 07:50-07:56/6 06:59-07:45/46	05:46 07:34-08:22/48	04:42 06:12-07:21/69	04:23 06:20-07:19/59
	16:32 10:54-11:12/18	17:45	18:48 06:38-06:50/12	20:56 06:44-07:23/39	21:59	22:28
27	08:37 10:56-11:11/15	07:25 08:08-09:10/62	06:08 06:35-06:52/17	05:44 07:34-08:21/47	04:40 06:12-07:19/67	04:23 06:20-07:20/60
	16:35 10:07-10:12/5	17:47	18:50 06:57-07:44/47	20:59 06:42-07:23/41	22:01	22:28
28	08:35 11:00-11:08/8	07:22 08:07-09:09/62	06:05 06:33-06:52/19	05:41 07:35-08:20/45	04:39 06:12-07:19/67	04:24 06:20-07:20/60
	16:37	17:50	18:52 06:56-07:43/47	21:01 06:40-07:24/44	22:02	22:27
29	08:33		07:02 07:32-07:53/21	05:39 07:36-08:19/43	04:37 06:12-07:19/67	04:25 06:20-07:21/61
	16:39		19:55 07:55-08:42/47	21:03 06:38-07:25/47	22:04	22:27
30	08:31		06:59 07:55-08:42/47	05:36 07:36-08:17/41	04:36 06:13-07:19/66	04:25 06:21-07:22/61
	16:41		19:57 07:32-07:54/22	21:05 06:36-07:25/49	22:06	22:27
31	08:29		06:57 07:54-08:41/47		04:34 06:13-07:19/66	
	16:44		19:59 07:31-07:53/22		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	3863	984	2458	2001	2315	1835

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 3 - Z2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October	November	December
1	04:26 06:20-07:21/61 22:26	05:15 06:25-07:37/72 21:41	06:21 07:35-08:27/52 20:24	07:25 08:14-09:35/81 19:00	07:34 08:12-08:31/19 16:38	08:39 13:38-14:00/22 11:14-11:47/33 15:43 09:36-10:58/82 11:55-12:26/31
2	04:27 06:20-07:22/62 22:26	05:17 06:26-07:37/71 21:39	06:23 07:35-08:27/52 20:21	07:27 08:14-09:35/81 18:57	07:36 08:12-08:30/18 16:36	08:41 13:38-14:01/23 11:14-11:47/33 11:55-12:27/32 15:42 09:36-11:04/88 13:13-13:18/5
3	04:28 06:21-07:22/61 22:25	05:19 06:26-07:37/71 21:37	06:25 07:36-08:26/50 20:18	07:29 08:14-09:35/81 18:54	07:38 08:14-08:29/15 16:33	08:43 13:38-14:02/24 11:14-11:48/34 11:55-12:27/32 15:41 09:37-11:06/89 13:11-13:20/9
4	04:29 06:21-07:23/62 22:24	05:21 06:26-07:36/70 21:35	06:27 07:34-08:26/52 20:15	07:31 08:14-09:37/83 18:51	07:41 08:15-08:27/12 16:31	08:44 13:38-14:02/24 11:15-11:48/33 11:55-12:28/33 15:41 09:38-11:07/89 13:10-13:22/12
5	04:30 06:21-07:23/62 22:24	05:24 06:27-07:36/69 21:33	06:30 07:30-08:27/57 20:12	07:33 08:14-09:38/84 18:48	07:43 08:19-08:24/5 16:29	08:46 13:38-14:03/25 11:15-11:49/34 11:55-12:29/34 15:40 09:38-11:09/91 13:09-13:24/15
6	04:31 06:21-07:24/63 22:23	05:26 06:28-07:36/68 21:30 07:58-08:12/14	06:32 07:28-08:27/59 20:10	07:35 08:14-09:39/85 18:46	07:45 16:27	08:48 13:37-14:03/26 11:15-11:50/35 11:55-12:29/34 15:39 09:39-11:10/91 13:09-13:25/16
7	04:32 06:21-07:24/63 22:22	05:28 06:29-07:36/67 21:28 07:54-08:15/21	06:34 07:26-08:27/61 20:07	07:38 08:14-09:40/86 18:43	07:48 16:24	08:49 13:38-14:04/26 11:15-11:50/35 13:08-13:25/17 15:38 09:39-11:10/91 11:55-12:29/34
8	04:34 06:21-07:25/64 22:21	05:30 06:31-07:36/65 21:26 07:52-08:18/26	06:36 07:25-08:28/63 20:04	07:40 08:14-09:41/87 18:40	07:50 16:22	08:51 13:38-14:04/26 11:15-11:50/35 13:08-13:26/18 15:38 09:40-11:11/91 11:55-12:30/35
9	04:35 06:20-07:25/65 22:20	05:32 06:32-07:36/64 21:23 07:50-08:20/30	06:38 07:24-08:30/66 20:01	07:42 08:14-09:41/87 18:37	07:52 16:20	08:52 13:39-14:05/26 11:16-11:51/35 13:08-13:28/20 15:37 09:41-11:13/92 11:56-12:31/35
10	04:36 06:21-07:26/65 22:19	05:34 06:34-07:35/61 21:21 07:48-08:22/34	06:40 07:23-08:31/68 19:59	07:44 08:15-08:36/21 18:35 08:39-09:41/62	07:54 16:18	08:54 13:39-14:05/26 11:16-11:51/35 13:08-13:28/20 15:36 09:42-11:13/91 11:56-12:31/35
11	04:38 06:21-07:26/65 22:18	05:36 06:37-07:35/58 21:18 07:47-08:23/36	06:42 07:23-08:31/68 19:56	07:46 08:17-08:30/13 18:32 08:40-09:42/62	07:57 16:16	08:55 13:40-14:06/26 11:17-11:52/35 13:08-13:29/21 15:36 09:43-11:14/91 11:56-12:32/36
12	04:39 06:21-07:27/66 22:16	05:38 06:41-07:34/53 21:16 07:46-08:24/38	06:44 07:22-08:32/70 19:53	07:49 08:20-08:27/7 18:29 08:39-09:41/62	07:59 16:14	08:56 13:39-14:06/27 11:17-11:52/35 13:08-13:30/22 15:36 09:43-11:14/91 11:56-12:32/36
13	04:41 06:20-07:27/67 22:15	05:40 07:44-08:26/42 21:13 06:45-07:33/48	06:46 07:45-08:32/47 19:50 07:22-07:44/22	07:51 08:39-09:41/62 18:27	08:01 16:12	08:57 13:40-14:07/27 11:17-11:52/35 13:08-13:30/22 15:35 09:45-11:15/90 11:56-12:32/36
14	04:42 06:21-07:28/67 22:14	05:43 07:43-08:27/44 21:11 06:46-07:33/47	06:49 07:22-07:43/21 19:47 07:45-08:33/48	07:53 08:40-09:42/62 18:24	08:04 10:31-10:40/9 16:10	08:59 13:41-14:08/27 11:18-11:54/36 13:09-13:31/22 15:35 09:45-11:16/91 11:58-12:34/36
15	04:44 06:21-07:28/67 22:12	05:45 07:42-08:27/45 21:08 06:48-07:32/44	06:51 07:23-07:42/19 19:45 07:45-08:33/48	07:55 08:40-09:42/62 18:21	08:06 10:29-10:44/15 16:08 09:40-09:46/6	09:00 13:41-14:08/27 11:18-11:54/36 13:09-13:32/23 15:35 09:46-11:16/90 11:58-12:34/36
16	04:45 06:21-07:29/68 22:11	05:47 07:41-08:28/47 21:06 06:50-07:31/41	06:53 07:24-07:41/17 19:42 07:46-08:32/46	07:57 08:40-09:42/62 18:19	08:08 09:51-10:00/9 09:37-09:48/11 16:06 10:27-10:45/18	09:01 13:41-14:08/27 11:19-11:54/35 13:09-13:32/23 15:35 09:47-11:17/90 11:58-12:34/36
17	04:47 06:21-07:29/68 22:09	05:49 07:41-08:29/48 21:03 06:51-07:29/38	06:55 07:26-07:39/13 19:39 07:47-08:33/46	08:00 08:41-09:43/62 18:16	08:10 09:36-10:03/27 16:04 10:26-10:48/22	09:02 13:42-14:09/27 11:19-11:55/36 13:10-13:33/23 15:35 09:47-11:18/91 11:59-12:35/36
18	04:49 06:21-07:30/69 22:08	05:51 07:40-08:29/49 21:01 06:52-07:28/36	06:57 08:34-08:48/14 07:48-08:33/45 19:36 07:28-07:36/8	08:02 08:42-09:43/61 18:13	08:12 09:34-10:04/30 16:02 10:24-10:49/25	09:02 13:42-14:10/28 11:20-11:56/36 13:10-13:34/24 15:35 09:48-11:18/90 11:59-12:35/36
19	04:50 06:21-07:30/69 22:06	05:53 07:39-08:30/51 20:58 06:53-07:26/33	06:59 07:49-08:51/62 19:33	08:04 08:43-09:42/59 18:11	08:15 09:34-10:06/32 16:01 10:24-10:50/26	09:03 13:42-14:09/27 11:59-12:35/36 15:36 09:49-11:55/126 13:10-13:33/23
20	04:52 06:22-07:32/70 22:05	05:55 07:38-08:30/52 20:56 06:55-07:25/30	07:01 07:50-08:52/62 19:30 09:11-09:21/10	08:06 08:44-09:42/58 18:08	08:17 09:33-10:06/33 11:22-11:31/9 15:59 10:23-10:51/28 10:07-10:14/7	09:04 13:43-14:10/27 11:20-11:56/36 13:11-13:34/23 15:36 09:49-11:19/90 12:00-12:36/36
21	04:54 06:22-07:33/71 22:03	05:58 07:38-08:31/53 20:53 06:57-07:22/25	07:03 07:51-08:53/62 19:28 09:06-09:25/19	08:09 08:44-09:42/58 18:05	08:19 09:34-10:18/44 11:20-11:35/15 15:57 10:23-10:52/29 12:03-12:11/8	09:05 13:44-14:11/27 11:21-11:57/36 13:11-13:35/24 15:36 09:50-11:20/90 12:01-12:37/36
22	04:56 06:22-07:33/71 22:01	06:00 07:37-08:31/54 20:50 06:59-07:19/20	07:05 07:54-08:54/60 19:25 09:03-09:28/25	08:11 08:46-09:42/56 18:03	08:21 09:33-10:19/46 11:18-11:36/18 15:56 10:23-10:53/30 12:00-12:14/14	09:05 13:44-14:11/27 11:21-11:57/36 13:11-13:35/24 15:37 09:50-11:20/90 12:01-12:37/36
23	04:58 06:22-07:34/72 21:59	06:02 07:37-08:31/54 20:48 07:03-07:15/12	07:08 07:56-08:55/59 19:22 09:00-09:30/30	08:13 08:47-09:41/54 18:00	08:23 09:34-10:21/47 11:17-11:39/22 15:54 10:23-10:54/31 11:59-12:17/18	09:06 13:45-14:12/27 11:22-11:58/36 13:12-13:36/24 15:37 09:51-11:21/90 12:02-12:38/36
24	04:59 06:23-07:34/71 21:58	06:04 07:36-08:31/55 20:45	07:10 07:56-08:55/59 19:19 08:58-09:31/33	08:15 08:50-09:41/51 17:58	08:25 13:43-13:50/7 11:16-11:40/24 15:53 09:33-10:54/81 11:57-12:18/21	09:06 13:45-14:12/27 11:22-11:58/36 13:13-13:36/23 15:38 09:51-11:21/90 12:02-12:38/36
25	05:01 06:22-07:34/72 21:56	06:06 07:36-08:31/55 20:42	07:12 07:57-08:55/58 19:16 08:56-09:32/36	07:18 07:52-08:39/47 16:55	08:27 13:40-13:52/12 11:15-11:41/26 15:51 09:33-10:55/82 11:56-12:19/23	09:06 13:45-14:12/27 11:23-11:58/35 13:13-13:36/23 15:38 09:51-11:21/90 12:02-12:38/36
26	05:03 06:23-07:35/72 21:54	06:08 07:36-08:31/55 20:40	07:14 07:58-09:33/95 19:14	07:20 07:53-08:39/46 16:53	08:29 13:40-13:55/15 11:15-11:42/27 15:50 09:34-10:56/82 11:56-12:21/25	09:07 13:46-14:13/27 11:23-11:59/36 13:13-13:37/24 15:39 09:51-11:21/90 12:03-12:39/36
27	05:05 06:23-07:36/73 21:52	06:10 07:35-08:30/55 20:37	07:16 08:01-09:34/93 19:11	07:22 07:55-08:37/42 16:50	08:31 13:39-13:56/17 11:15-11:43/28 15:48 09:34-10:56/82 11:55-12:22/27	09:07 13:46-14:13/27 11:23-11:59/36 13:14-13:37/23 15:40 09:51-11:22/91 12:03-12:39/36
28	05:07 06:24-07:36/72 21:50	06:13 07:35-08:30/55 20:34	07:18 08:03-09:35/92 19:08	07:25 07:58-08:36/38 16:48	08:33 13:38-13:57/19 11:14-11:44/30 15:47 09:34-10:56/82 11:55-12:23/28	09:07 13:47-14:14/27 11:24-12:00/36 13:15-13:38/23 15:41 09:52-11:22/90 12:04-12:40/36
29	05:09 06:23-07:36/73 21:48	06:15 07:35-08:29/54 20:32	07:20 08:16-09:35/79 19:05 08:07-08:14/7	07:27 08:00-08:34/34 16:45	08:35 13:37-13:58/21 11:14-11:44/30 15:46 09:34-10:57/83 11:54-12:24/30	09:07 13:47-14:14/27 11:25-12:00/35 13:16-13:38/22 15:42 09:52-11:23/91 12:04-12:40/36
30	05:11 06:24-07:36/72 21:46	06:17 07:35-08:29/54 20:29	07:22 08:15-09:35/80 19:02	07:29 08:06-08:33/27 16:43	08:37 13:38-13:59/21 11:15-11:46/31 15:45 09:35-10:58/83 11:55-12:25/30	09:07 13:48-14:15/27 11:25-12:01/36 13:17-13:39/22 15:43 09:52-11:23/91 12:05-12:41/36
31	05:13 06:24-07:37/73 21:44	06:19 07:35-08:28/53 20:26		07:31 08:07-08:31/24 16:41		09:07 13:48-14:15/27 11:25-12:01/36 13:17-13:38/21 15:44 09:52-11:23/91 12:05-12:41/36
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	2096	2337	2133	1947	1765	6402

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 4 - Z3

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:07 12:15-12:42/27 10:11-10:59/48 11:07-11:32/25	08:27 09:15-09:41/26 10:20-10:44/24	07:20 07:50-07:58/8	06:54 07:29-08:01/32	05:34 06:24-07:03/39	04:33
	15:46 09:50-09:55/5 11:40-12:05/25	16:46 09:47-10:17/30	17:52	20:01	21:07	22:09
2	09:06 12:16-12:43/27 10:10-10:59/49 11:07-11:32/25	08:25 09:14-09:41/27 10:21-10:43/22	07:17 07:46-08:00/14	06:51 07:28-08:00/32	05:31 06:24-07:02/38	04:32
	15:47 09:49-09:56/7 11:40-12:05/25	16:48 09:47-10:16/29	17:54	20:03	21:10	22:10
3	09:06 12:16-12:43/27 10:10-10:59/49 11:08-11:31/23	08:23 09:14-09:42/28 10:23-10:41/18	07:14 07:44-08:02/18	06:48 07:22-07:59/37	05:29 06:23-06:59/36	04:31
	15:48 09:48-09:57/9 11:41-12:04/23	16:51 09:48-10:16/28	17:57	20:06	21:12	22:12
4	09:05 12:17-12:43/26 10:10-10:59/49 11:09-11:31/22	08:21 09:14-09:43/29 10:26-10:39/13	07:12 07:43-08:04/21	06:46 07:20-07:58/38	05:27 06:24-06:59/35	04:29
	15:50 09:48-09:59/11 11:41-12:04/23	16:53 09:50-10:16/26	17:59	20:08	21:14	22:13
5	09:05 12:18-12:44/26 10:11-11:01/50 11:11-11:31/20	08:19 09:14-09:42/28 10:30-10:34/4	07:09 07:42-08:04/22	06:43 07:18-07:56/38	05:24 06:24-06:58/34	04:28
	15:51 09:47-10:00/13 11:43-12:05/22	16:56 09:50-10:14/24	18:01	20:10	21:16	22:14
6	09:04 12:19-12:44/25 10:11-11:01/50 11:12-11:30/18	08:17 09:14-09:43/29	07:06 07:37-08:04/27	06:40 07:16-07:53/37	05:22 06:25-06:57/32	04:27
	15:53 09:46-10:01/15 11:44-12:05/21	16:58 09:52-10:13/21	18:03	20:12	21:18	22:16
7	09:04 12:20-12:44/24 10:11-11:01/50 11:23-11:28/5	08:14 09:14-09:42/28	07:03 07:35-08:04/29	06:37 07:15-07:51/36	05:19 06:25-06:55/30	04:27
	15:54 09:45-10:02/17 11:45-12:05/20 11:15-11:19/4	17:00 09:53-10:11/18	18:06	20:14	21:21	22:17
8	09:03 12:20-12:43/23 10:10-11:02/52	08:12 09:15-09:42/27	07:01 07:33-08:04/31	06:34 07:14-07:50/36	05:17 06:26-06:53/27	04:26
	15:56 09:45-10:03/18 11:46-12:04/18	17:03 09:56-10:10/14	18:08	20:17	21:23	22:18
9	09:02 12:22-12:43/21 10:10-11:01/51	08:10 09:15-09:41/26	06:58 07:32-08:05/33	06:32 07:12-07:48/36	05:15 06:27-06:49/22	04:25
	15:58 09:44-10:03/19 11:47-12:03/16	17:05 09:59-10:05/6	18:10	20:19	21:25	22:19
10	09:01 12:23-12:42/19 10:10-11:02/52	08:07 09:16-09:41/25	06:55 07:31-08:04/33	06:29 07:11-07:46/35	05:13 06:29-06:46/17	04:24
	15:59 09:44-10:04/20 11:49-12:03/14	17:07	18:12	20:21	21:27	22:20
11	09:00 12:25-12:42/17 10:11-11:02/51	08:05 09:16-09:40/24	06:52 07:30-08:03/33	06:26 07:11-07:45/34	05:10 06:30-06:44/14	04:24
	16:01 09:44-10:06/22 11:51-12:02/11	17:10	18:15	20:23	21:29	22:21
12	08:59 12:26-12:41/15 10:10-11:01/51	08:03 09:18-09:40/22	06:50 07:23-08:02/39	06:23 07:11-07:41/30	05:08 06:32-06:42/10	04:23
	16:03 09:44-10:06/22 11:53-11:59/6	17:12	18:17	20:25	21:31	22:22
13	08:58 12:28-12:40/12 10:11-11:02/51	08:00 09:19-09:38/19	06:47 07:20-08:01/41	06:21 07:10-07:41/31	05:06	04:22
	16:05 09:44-10:07/23	17:15	18:19	20:28	21:33	22:23
14	08:57 12:31-12:37/6 10:10-11:01/51	07:58 09:20-09:36/16	06:44 07:18-08:00/42	06:18 07:11-07:41/30	05:04	04:22
	16:07 09:44-10:07/23	17:17	18:21	20:30 06:52-07:00/8	21:36	22:24
15	08:56 09:44-10:08/24	07:56 09:24-09:33/9	06:41 07:16-07:57/41	06:15 07:10-07:40/30	05:02	04:22
	16:09 10:11-11:02/51	17:19	18:24	20:32 06:48-07:03/15	21:38	22:25
16	08:54 09:44-10:09/25	07:53	06:39 07:07-07:54/47	06:13 07:11-07:40/29	05:00	04:21
	16:11 10:11-11:01/50	17:22	18:26	20:34 06:46-07:05/19	21:40	22:25
17	08:53 09:45-10:10/25	07:51	06:36 07:04-07:53/49	06:10 07:11-07:38/27	04:58	04:21
	16:13 10:11-11:01/50	17:24	18:28	20:37 06:44-07:06/22	21:42	22:26
18	08:52 09:45-11:01/76	07:48	06:33 07:03-07:52/49	06:07 07:11-07:37/26	04:56	04:21
	16:15	17:26	18:30	20:39 06:41-07:06/25	21:44	22:26
19	08:50 09:45-11:00/75	07:46	06:30 07:01-07:50/49	06:05 07:12-07:36/24	04:54	04:21
	16:17	17:29	18:33	20:41 06:39-07:07/28	21:46	22:27
20	08:49 09:45-10:58/73	07:43	06:27 07:01-07:49/48	06:02 06:36-07:07/31	04:52	04:21
	16:19	17:31	18:35	20:43 07:13-07:34/21	21:48	22:27
21	08:47 09:45-10:46/61	07:41	06:25 07:00-07:46/46	05:59 06:33-07:08/35	04:50	04:21
	16:21 10:47-10:56/9	17:33	18:37	20:45 07:15-07:33/18	21:50	22:27
22	08:46 09:45-10:47/62	07:38	06:22 06:59-07:40/41	05:57 06:30-07:08/38	04:48	04:21
	16:23	17:36	18:39	20:48 07:17-07:29/12	21:51	22:28
23	08:44 09:44-10:47/63	07:35	06:19 06:59-07:39/40	05:54 06:29-07:08/39	04:47	04:21
	16:25	17:38	18:41 06:47-06:58/11	20:50 07:22-07:24/2	21:53	22:28
24	08:42 09:44-10:47/63	07:33	06:16 06:44-07:38/54	05:51 06:27-07:07/40	04:45	04:22
	16:28 09:24-09:27/3	17:40	18:44	20:52	21:55	22:28
25	08:41 09:45-10:47/62	07:30	06:13 06:43-07:37/54	05:49 06:26-07:07/41	04:43	04:22
	16:30 09:20-09:32/12	17:43	18:46	20:54	21:57	22:28
26	08:39 09:45-10:47/62	07:28	06:11 06:42-07:36/54	05:46 06:26-07:07/41	04:42	04:23
	16:32 09:19-09:34/15	17:45	18:48	20:56	21:59	22:28
27	08:37 09:45-10:47/62	07:25	06:08 06:38-07:34/56	05:44 06:25-07:06/41	04:40	04:23
	16:34 09:18-09:36/18	17:47	18:50	20:59	22:01	22:28
28	08:35 09:46-10:47/61	07:22	06:05 06:35-07:32/57	05:41 06:24-07:06/42	04:39	04:24
	16:37 09:17-09:37/20	17:50	18:52	21:01	22:02	22:27
29	08:33 09:46-10:46/60		07:02 07:32-08:15/43	05:39 06:24-07:06/42	04:37	04:24
	16:39 09:16-09:39/23		19:55 08:17-08:29/12	21:03	22:04	22:27
30	08:31 09:46-10:45/59		06:59 08:05-08:13/8	05:36 06:23-07:04/41	04:36	04:25
	16:41 09:15-09:39/24		19:57 07:31-08:03/32	21:05	22:06	22:27
31	08:29 09:15-09:40/25 10:18-10:45/27		06:57 07:30-08:02/32		04:34	
	16:44 09:46-10:17/31		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	2860	640	1214	1219	334	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 4 - Z3

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October	November	December
1	04:26	05:15 06:42-06:53/11	06:21 07:10-07:44/34	07:25 08:01-08:41/40	07:34 08:46-09:11/25	08:39 12:07-12:24/17 09:53-10:44/51
	22:26	21:41	20:23	19:00	16:38	15:43 09:26-09:48/22 11:33-11:44/11
2	04:27	05:17 06:40-06:55/15	06:23 07:10-07:45/35	07:27 08:08-08:41/33	07:36 08:44-09:11/27	08:41 12:06-12:25/19 09:53-10:45/52
	22:26	21:39	20:21	18:57	16:36 09:28-09:36/8	15:42 09:27-09:48/21 11:32-11:46/14
3	04:28	05:19 06:38-06:57/19	06:25 07:10-07:46/36	07:29 08:09-08:42/33	07:38 08:45-09:12/27	08:43 12:06-12:27/21 09:54-10:45/51
	22:25	21:37	20:18	18:54	16:33 09:25-09:40/15	15:41 09:28-09:48/20 11:31-11:47/16
4	04:29	05:21 06:36-07:00/24	06:27 07:11-07:47/36	07:31 08:09-08:42/33	07:41 08:44-09:12/28	08:44 12:05-12:28/23 09:55-10:46/51
	22:24	21:35	20:15	18:51	16:31 09:22-09:41/19	15:40 09:29-09:47/18 11:31-11:48/17
5	04:30	05:24 06:35-07:03/28	06:29 07:11-07:47/36	07:33 08:09-08:41/32	07:43 08:44-09:12/28	08:46 12:05-12:29/24 09:56-10:46/50 11:08-11:13/5
	22:24	21:33	20:12	18:48	16:29 09:21-09:43/22	15:40 09:30-09:47/17 11:30-11:50/20 11:00-11:04/4
6	04:31	05:26 06:35-07:05/30	06:32 07:12-07:49/37	07:35 08:10-08:41/31	07:45 08:44-09:12/28 09:58-10:05/7	08:48 12:04-12:29/25 09:57-10:47/50 10:59-11:16/17
	22:23	21:30	20:10	18:46	16:27 09:20-09:44/24	15:39 09:32-09:47/15 11:30-11:51/21
7	04:32	05:28 06:34-07:06/32	06:34 07:13-07:51/38	07:38 08:12-08:41/29	07:48 08:44-09:12/28 09:55-10:09/14	08:49 12:05-12:30/25 09:57-10:47/50 10:57-11:17/20
	22:22	21:28	20:07	18:43	16:24 09:19-09:45/26	15:38 09:33-09:46/13 11:29-11:51/22
8	04:33	05:30 06:33-07:07/34	06:36 07:14-07:52/38	07:40 08:15-08:40/25	07:50 08:45-09:13/28 09:53-10:12/19	08:51 12:05-12:31/26 09:58-10:47/49 10:57-11:19/22
	22:21	21:26	20:04	18:40	16:22 09:19-09:47/28	15:37 09:35-09:46/11 11:30-11:52/22
9	04:35	05:32 06:33-07:08/35	06:38 07:16-07:53/37	07:42 08:17-08:39/22	07:52 08:45-09:12/27 09:51-10:13/22	08:52 12:05-12:32/27 09:59-10:48/49 10:57-11:20/23
	22:20	21:23	20:01	18:37	16:20 09:18-09:47/29	15:37 09:37-09:46/9 11:30-11:53/23
10	04:36	05:34 06:32-07:09/37	06:40 07:21-07:53/32	07:44 08:18-08:37/19	07:54 08:46-09:12/26 09:50-10:15/25	08:54 12:05-12:32/27 10:00-10:48/48 10:56-11:21/25
	22:19	21:21	19:59	18:35	16:18 09:18-09:48/30	15:36 09:38-09:45/7 11:30-11:54/24
11	04:38	05:36 06:32-07:11/39	06:42 07:21-07:54/33	07:46 08:20-08:36/16	07:57 08:46-09:11/25 09:49-10:16/27	08:55 12:06-12:33/27 10:01-10:49/48 10:57-11:22/25
	22:18	21:18	19:56	18:32	16:16 09:17-09:48/31	15:36 09:40-09:45/5 11:30-11:55/25
12	04:39	05:38 06:32-07:12/40	06:44 07:21-07:54/33	07:48 08:21-08:33/12	07:59 09:17-10:17/60	08:56 12:06-12:34/28 10:01-10:49/48 10:56-11:23/27
	22:16	21:16	19:53	18:29	16:14 08:47-09:11/24	15:36 09:41-09:43/2 11:30-11:55/25
13	04:40	05:40 06:32-07:13/41	06:46 07:56-08:02/6	07:51	08:01 09:18-10:18/60	08:57 12:05-12:34/29 11:30-11:55/25
	22:15	21:13	19:50 07:22-07:53/31	18:27	16:12 08:48-09:11/23	15:35 10:02-10:49/47 10:56-11:23/27
14	04:42	05:43 06:32-07:13/41	06:48 07:22-08:05/43	07:53	08:04 09:17-10:19/62	08:59 12:07-12:35/28 11:31-11:57/26
	22:14	21:11	19:47 08:08-08:19/11	18:24	16:10 08:49-09:09/20	15:35 10:03-10:50/47 10:57-11:25/28
15	04:44	05:45 06:32-07:14/42	06:51 07:24-08:21/57	07:55	08:06 09:18-10:20/62	09:00 12:07-12:36/29 11:31-11:57/26
	22:12	21:08	19:44	18:21	16:08 08:51-09:09/18	15:35 10:04-10:51/47 10:57-11:25/28
16	04:45	05:47 06:32-07:14/42	06:53 07:26-08:23/57	07:57	08:08 09:18-10:20/62	09:01 12:07-12:36/29 11:31-11:58/27
	22:11	21:06	19:42	18:19	16:06 08:52-09:07/15	15:35 10:05-10:51/46 10:57-11:26/29
17	04:47	05:49 06:32-07:14/42	06:55 07:30-08:24/54	08:00	08:10 09:19-10:21/62	09:02 12:07-12:37/30 11:32-11:58/26
	22:09	21:03	19:39	18:16	16:04 08:54-09:05/11	15:35 10:06-10:52/46 10:58-11:27/29
18	04:49	05:51 06:33-07:14/41	06:57 07:30-08:25/55	08:02	08:12 09:18-10:21/63	09:02 12:08-12:37/29 11:32-11:59/27
	22:08	21:01	19:36	18:13	16:02 08:58-09:01/3	15:35 10:06-10:52/46 10:58-11:27/29
19	04:50	05:53 06:34-07:14/40	06:59 07:31-08:25/54	08:04	08:15 09:19-10:22/63	09:03 12:08-12:37/29 11:32-11:59/27 10:06-10:24/18
	22:06	20:58	19:33	18:11	16:01	15:35 10:25-10:53/28 10:59-11:28/29
20	04:52	05:55 06:35-07:14/39	07:01 07:33-08:26/53	08:06	08:17 09:20-10:22/62	09:04 12:08-12:38/30 11:33-12:00/27
	22:05	20:56 07:26-07:32/6	19:30	18:08	15:59	15:36 10:07-10:53/46 10:58-11:28/30
21	04:54	05:58 06:36-07:13/37	07:03 07:45-08:26/41	08:09	08:19 09:21-10:22/61	09:05 12:09-12:39/30 11:33-12:01/28
	22:03	20:53 07:22-07:35/13	19:28 07:38-07:40/2	18:05	15:57 10:23-10:32/9	15:36 10:08-10:53/45 10:59-11:29/30
22	04:56	06:00 06:38-07:13/35	07:05 07:44-08:29/45	08:11	08:21 09:21-10:34/73	09:05 12:09-12:39/30 11:33-12:01/28
	22:01	20:50 07:19-07:37/18	19:25	18:03	15:56	15:37 10:08-10:53/45 10:59-11:29/30
23	04:58	06:02 06:41-07:12/31	07:08 07:44-08:32/48	08:13	08:23 09:22-10:37/75	09:06 12:10-12:40/30 11:35-12:02/27
	21:59	20:48 07:17-07:39/22	19:22	18:00	15:54	15:37 10:09-10:54/45 11:00-11:30/30
24	04:59	06:04 07:16-07:40/24	07:10 07:45-08:33/48	08:15	08:25 09:22-09:48/26	09:06 12:10-12:40/30 11:35-12:02/27
	21:58	20:45 06:43-07:11/28	19:19	17:58	15:52 09:49-10:38/49	15:38 10:09-10:55/46 11:01-11:30/29
25	05:01	06:06 07:15-07:41/26	07:12 07:45-08:34/49	07:18	08:27 09:22-09:48/26	09:06 12:11-12:40/29 11:35-12:02/27
	21:56	20:42 06:45-07:10/25	19:16	16:55	15:51 09:49-10:39/50	15:38 10:09-10:55/46 11:01-11:30/29
26	05:03	06:08 07:14-07:41/27	07:14 07:46-08:35/49	07:20	08:29 09:23-09:48/25	09:07 12:11-12:41/30 11:36-12:02/26
	21:54	20:40 06:47-07:08/21	19:14	16:53	15:50 09:50-10:40/50	15:39 10:10-10:55/45 11:01-11:31/30
27	05:05	06:10 07:13-07:42/29	07:16 07:48-08:36/48	07:22 08:52-09:04/12	08:31 09:23-09:47/24	09:07 12:12-12:41/29 11:36-12:03/27
	21:52	20:37 06:48-07:07/19	19:11	16:50	15:48 09:50-10:41/51	15:40 10:10-10:56/46 11:02-11:31/29
28	05:07	06:12 07:12-07:42/30	07:18 07:51-08:37/46	07:24 08:50-09:07/17	08:33 12:11-12:17/6 09:50-10:41/51	09:07 12:12-12:41/29 11:37-12:03/26
	21:50	20:34 06:50-07:04/14	19:08	16:48	15:47 09:24-09:47/23	15:41 10:10-10:56/46 11:03-11:31/28
29	05:09	06:15 07:11-07:42/31	07:20 07:58-08:39/41	07:27 08:48-09:08/20	08:35 12:08-12:20/12 09:51-10:42/51	09:07 12:13-12:42/29 11:38-12:04/26
	21:48	20:32 06:53-07:00/7	19:05	16:45	15:46 09:24-09:47/23	15:42 10:10-10:57/47 11:04-11:32/28
30	05:11	06:17 07:11-07:42/31	07:22 07:59-08:40/41	07:29 08:47-09:09/22	08:37 12:08-12:23/15 09:52-10:44/52	09:07 12:14-12:43/29 11:39-12:04/25
	21:46	20:29	19:02	16:43	15:45 09:26-09:48/22 11:36-11:41/5	15:43 10:11-10:58/47 11:05-11:32/27
31	05:13 06:45-06:49/4	06:19 07:11-07:41/30		07:31 08:46-09:10/24		09:07 12:14-12:42/28 11:39-12:04/25
	21:44	20:26		16:40		15:44 10:10-10:58/48 11:05-11:32/27
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	4	1176	1304	420	2092	3936

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 5 - Z4

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:07 10:22-10:45/23	08:27	07:20 07:49-08:28/39	06:54 07:55-08:18/23	05:34	04:33
	15:46 10:47-11:09/22	16:46	17:52	20:01	21:07	22:09
2	09:06 10:22-10:45/23	08:25	07:17 07:48-08:26/38	06:51 07:55-08:16/21	05:31	04:32
	15:47 10:48-11:08/20	16:48	17:54	20:03	21:10	22:10
3	09:06 10:22-10:45/23	08:23	07:14 07:46-08:24/38	06:48 07:56-08:14/18	05:29	04:31
	15:48 10:48-11:08/20	16:51	17:57	20:06	21:12	22:12
4	09:05 10:22-10:45/23	08:21	07:12 07:46-08:23/37	06:46 07:59-08:12/13	05:27	04:30
	15:50 10:49-11:08/19	16:53	17:59	20:08	21:14	22:13
5	09:05 10:24-10:47/23	08:19	07:09 07:45-08:12/27	06:43	05:24	04:28
	15:51 10:50-11:09/19	16:56	18:01	20:10	21:16	22:14
6	09:04 10:24-10:47/23	08:16	07:06 07:45-08:12/27	06:40	05:22	04:27
	15:53 10:51-11:09/18	16:58	18:03	20:12	21:18	22:16
7	09:04 10:25-10:47/22	08:14 08:46-08:52/6	07:03 07:44-08:12/28	06:37	05:20	04:27
	15:54 10:52-11:09/17	17:00	18:06	20:14	21:21	22:17
8	09:03 10:26-10:47/21	08:12 08:43-08:55/12	07:01 07:44-08:12/28	06:34	05:17	04:26
	15:56 10:52-11:08/16	17:03	18:08	20:17	21:23	22:18
9	09:02 10:26-10:46/20	08:10 08:41-08:57/16	06:58 07:44-08:13/29	06:32	05:15	04:25
	15:58 10:54-11:07/13	17:05	18:10	20:19	21:25	22:19
10	09:01 10:27-10:47/20	08:07 08:40-08:59/19	06:55 07:44-08:12/28	06:29	05:13	04:24
	15:59 10:56-11:07/11	17:07	18:12	20:21	21:27	22:20
11	09:00 10:28-10:47/19	08:05 08:38-08:59/21	06:52 07:44-08:12/28	06:26	05:10	04:24
	16:01 10:58-11:06/8	17:10	18:15	20:23	21:29	22:21
12	08:59 10:28-10:46/18	08:03 08:36-09:00/24	06:50 07:44-08:11/27	06:23	05:08	04:23
	16:03	17:12	18:17	20:25	21:31	22:22
13	08:58 10:30-10:46/16	08:00 08:34-09:01/27	06:47 07:44-08:10/26	06:21	05:06	04:22
	16:05	17:15	18:19 07:19-07:31/12	20:28	21:33	22:23
14	08:57 10:31-10:45/14	07:58 08:32-09:00/28	06:44 07:45-08:09/24	06:18	05:04	04:22
	16:07	17:17	18:21 07:17-07:34/17	20:30	21:35	22:24
15	08:56 10:33-10:45/12	07:56 08:32-09:01/29	06:41 07:46-08:08/22	06:15	05:02	04:22
	16:09	17:19	18:24 07:15-07:36/21	20:32	21:38	22:25
16	08:54 10:34-10:43/9	07:53 08:31-09:01/30	06:39 07:47-08:06/19	06:13	05:00	04:21
	16:11	17:22	18:26 07:13-07:37/24	20:34	21:40	22:25
17	08:53 10:38-10:40/2	07:51 08:31-09:01/30	06:36 07:49-08:03/14	06:10	04:58	04:21
	16:13	17:24	18:28 07:11-07:37/26	20:36	21:42	22:26
18	08:52	07:48 08:18-08:21/3	06:33 07:06-07:37/31	06:07	04:56	04:21
	16:15	17:26 08:30-09:00/30	18:30 07:52-07:58/6	20:39	21:44	22:26
19	08:50	07:46 08:14-08:25/11	06:30 07:02-07:37/35	06:05	04:54	04:21
	16:17	17:29 08:29-08:59/30	18:33	20:41	21:46	22:27
20	08:49	07:43 08:12-08:27/15	06:27 07:01-07:38/37	06:02	04:52	04:21
	16:19	17:31 08:30-08:59/29	18:35	20:43	21:48	22:27
21	08:47	07:41 08:10-08:28/18	06:25 06:59-07:38/39	05:59	04:50	04:21
	16:21	17:33 08:30-08:57/27	18:37	20:45	21:50	22:27
22	08:46	07:38 08:09-08:29/20	06:22 06:57-07:37/40	05:57	04:48	04:21
	16:23	17:36 08:30-08:55/25	18:39	20:48	21:51	22:28
23	08:44	07:35 08:09-08:53/44	06:19 06:56-07:36/40	05:54	04:47	04:22
	16:26	17:38	18:41	20:50	21:53	22:28
24	08:42	07:33 08:08-08:30/22	06:16 06:55-07:35/40	05:52	04:45	04:22
	16:28	17:40 08:31-08:53/22	18:44	20:52	21:55	22:28
25	08:41	07:30 08:08-08:30/22 07:59-08:06/7	06:13 06:54-07:34/40	05:49	04:43	04:22
	16:30	17:43 08:32-08:52/20	18:46	20:54	21:57	22:28
26	08:39	07:28 07:55-08:29/34	06:11 06:54-07:34/40	05:46	04:42	04:23
	16:32	17:45 08:33-08:50/17	18:48	20:56	21:59	22:28
27	08:37	07:25 07:54-08:30/36	06:08 06:54-07:33/39	05:44	04:40	04:23
	16:35	17:47 08:36-08:48/12	18:50	20:59	22:01	22:28
28	08:35	07:22 07:52-08:29/37	06:05 06:53-07:31/38	05:41	04:39	04:24
	16:37	17:50 08:40-08:43/3	18:52	21:01	22:02	22:27
29	08:33		07:02 07:53-08:29/36	05:39	04:37	04:25
	16:39		19:55	21:03	22:04	22:27
30	08:31		06:59 07:54-08:28/34	05:36	04:36	04:25
	16:41		19:57	21:05	22:06	22:27
31	08:29		06:57 07:54-08:24/30		04:34	
	16:44		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	494	726	1104	75	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 5 - Z4

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25 08:23-08:50/27	07:34 08:10-08:28/18	08:39 10:10-10:29/19
	22:26	21:41	20:23	19:00 08:01-08:08/7	16:38	15:43 10:40-10:48/8
2	04:27	05:17	06:23	07:27 08:22-08:50/28	07:36 08:11-08:26/15	08:41 10:10-10:30/20
	22:26	21:39	20:21	18:57	16:36	15:42 10:39-10:50/11
3	04:28	05:19	06:25	07:29 08:22-08:50/28	07:38 08:13-08:25/12	08:43 10:10-10:31/21
	22:25	21:37	20:18	18:54	16:33	15:41 10:38-10:51/13
4	04:29	05:21	06:27	07:31 08:21-08:50/29	07:41 08:16-08:21/5	08:44 10:10-10:31/21
	22:24	21:35	20:15	18:51	16:31	15:40 10:38-10:53/15
5	04:30	05:24	06:30	07:33 08:21-08:49/28	07:43	08:46 10:10-10:32/22
	22:24	21:32	20:12	18:48	16:29	15:40 10:37-10:54/17
6	04:31	05:26	06:32	07:35 08:20-08:49/29	07:45	08:48 10:11-10:33/22
	22:23	21:30	20:10	18:46	16:27	15:39 10:37-10:55/18
7	04:32	05:28	06:34	07:38 08:21-08:49/28	07:47	08:49 10:10-10:33/23
	22:22	21:28	20:07	18:43	16:24	15:38 10:36-10:55/19
8	04:34	05:30	06:36 07:54-08:06/12	07:40 08:20-08:48/28	07:50	08:51 10:11-10:33/22
	22:21	21:26	20:04	18:40	16:22	15:38 10:37-10:56/19
9	04:35	05:32	06:38 07:51-08:08/17	07:42 08:20-08:47/27	07:52	08:52 10:11-10:34/23
	22:20	21:23	20:01	18:37 08:50-08:54/4	16:20	15:37 10:37-10:57/20
10	04:36	05:34	06:40 07:49-08:09/20	07:44 08:20-08:58/38	07:54	08:54 10:11-10:34/23
	22:19	21:21	19:58	18:35	16:18	15:36 10:37-10:58/21
11	04:38	05:36	06:42 07:47-08:10/23	07:46 08:22-09:00/38	07:57	08:55 10:12-10:35/23
	22:18	21:18	19:56	18:32	16:16	15:36 10:37-10:59/22
12	04:39	05:38	06:44 07:46-08:15/29	07:48 08:22-09:01/39	07:59	08:56 10:12-10:35/23
	22:16	21:16	19:53	18:29	16:14	15:36 10:37-10:59/22
13	04:41	05:40	06:46 07:44-08:18/34	07:51 08:23-09:01/38	08:01	08:57 10:12-10:36/24
	22:15	21:13	19:50	18:27	16:12	15:35 10:37-10:59/22
14	04:42	05:43	06:49 07:44-08:19/35	07:53 08:26-09:02/36	08:03	08:59 10:13-10:37/24
	22:14	21:11	19:47	18:24 09:10-09:19/9	16:10	15:35 10:38-11:01/23
15	04:44	05:45	06:51 07:43-08:20/37	07:55 08:27-09:02/35	08:06	09:00 10:13-10:37/24
	22:12	21:08	19:44	18:21 09:07-09:21/14	16:08	15:35 10:38-11:01/23
16	04:45	05:47	06:53 07:42-08:21/39	07:57 08:28-09:02/34	08:08	09:01 10:14-10:38/24
	22:11	21:06	19:42	18:19 09:04-09:22/18	16:06	15:35 10:39-11:02/23
17	04:47	05:49	06:55 07:43-08:22/39	08:00 08:40-09:02/22 08:33-08:36/3	08:10	09:02 10:14-10:38/24
	22:09	21:03	19:39	18:16 09:04-09:24/20	16:04	15:35 10:39-11:02/23
18	04:49	05:51	06:57 07:42-08:23/41	08:02 08:40-09:01/21	08:12	09:02 10:15-10:39/24
	22:08	21:01	19:36	18:13 09:02-09:24/22	16:02	15:35 10:40-11:03/23
19	04:50	05:53	06:59 07:42-08:23/41	08:04 08:39-09:00/21	08:15	09:03 10:14-10:38/24
	22:06	20:58	19:33	18:11 09:01-09:25/24	16:01	15:36 10:39-11:02/23
20	04:52	05:55	07:01 07:42-08:23/41	08:06 08:41-09:00/19	08:17	09:04 10:15-10:39/24
	22:05	20:56	19:30	18:08 09:01-09:27/26	15:59	15:36 10:40-11:03/23
21	04:54	05:58	07:03 07:43-08:23/40	08:09 08:41-08:58/17	08:19	09:05 10:16-10:40/24
	22:03	20:53	19:28	18:05 09:00-09:28/28	15:57	15:36 10:41-11:04/23
22	04:56	06:00	07:05 07:43-08:22/39	08:11 08:43-08:57/14	08:21	09:05 10:16-10:40/24
	22:01	20:50	19:25	18:03 09:00-09:30/30	15:56	15:37 10:41-11:04/23
23	04:58	06:02	07:08 07:44-08:22/38	08:13 08:45-08:54/9	08:23	09:06 10:17-10:41/24
	21:59	20:48	19:22	18:00 09:00-09:30/30	15:54	15:37 10:42-11:05/23
24	04:59	06:04	07:10 07:45-08:21/36	08:15 09:00-09:31/31	08:25	09:06 10:17-10:41/24
	21:58	20:45	19:19	17:58	15:52	15:38 10:42-11:05/23
25	05:01	06:06	07:12 07:48-08:20/32	07:18 08:00-08:31/31	08:27 10:16-10:18/2	09:06 10:18-10:42/24
	21:56	20:42	19:16	16:55	15:51	15:38 10:43-11:06/23
26	05:03	06:08	07:14 08:31-08:44/13	07:20 08:01-08:31/30	08:29 10:13-10:22/9	09:07 10:18-10:42/24
	21:54	20:40	19:14 07:53-08:19/26	16:53	15:50	15:39 10:43-11:06/23
27	05:05	06:10	07:16 08:29-08:47/18	07:22 08:01-08:31/30	08:31 10:12-10:24/12	09:07 10:19-10:42/23
	21:52	20:37	19:11 07:54-08:19/25	16:50	15:48	15:40 10:44-11:06/22
28	05:07	06:13	07:18 08:27-08:48/21	07:24 08:03-08:31/28	08:33 10:11-10:25/14	09:07 10:19-10:43/24
	21:50	20:34	19:08 07:55-08:17/22	16:48	15:47	15:41 10:44-11:07/23
29	05:09	06:15	07:20 08:25-08:49/24	07:27 08:04-08:30/26	08:35 10:10-10:26/16	09:07 10:20-10:44/24
	21:48	20:32	19:05 07:56-08:15/19	16:45	15:46	15:42 10:45-11:07/22
30	05:11	06:17	07:22 08:24-08:49/25	07:29 08:06-08:30/24	08:37 10:10-10:28/18	09:07 10:21-10:44/23
	21:46	20:29	19:02 07:58-08:13/15	16:43	15:45	15:43 10:46-11:08/22
31	05:13	06:19		07:31 08:09-08:29/20		09:07 10:20-10:44/24
	21:44	20:26		16:41		15:44 10:46-11:08/22
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	801	1088	121	1353

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 6 - Z5

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 7 - Z6

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 13:20-13:29/9 10:16-10:41/25	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39 10:04-10:27/23
	15:46 13:35-13:43/8	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06 13:22-13:29/7 10:17-10:42/25	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41 10:04-10:27/23
	15:47 13:37-13:43/6	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06 10:17-10:42/25	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43 10:04-10:28/24
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05 10:17-10:42/25	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:44 10:04-10:28/24
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05 10:19-10:43/24	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46 10:05-10:29/24
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04 10:19-10:43/24	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48 10:04-10:29/25
	15:53	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03 10:20-10:44/24	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:37	07:47	08:49 10:05-10:29/24
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03 10:19-10:43/24	08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50	08:51 10:05-10:30/25
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02 10:20-10:44/24	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52 10:06-10:31/25
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01 10:21-10:44/23	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54 13:11-13:18/7 10:06-10:31/25
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:36 13:27-13:32/5
11	09:00 10:22-10:45/23	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55 13:11-13:20/9 10:07-10:32/25
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36 13:26-13:34/8
12	08:59 10:22-10:44/22	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56 13:10-13:21/11 10:07-10:32/25
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36 13:25-13:35/10
13	08:58 10:23-10:44/21	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57 13:10-13:21/11 10:07-10:32/25
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:35 13:25-13:36/11
14	08:57 10:23-10:44/21	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58 13:10-13:23/13 10:08-10:33/25
	16:07	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35 13:26-13:38/12
15	08:56 10:25-10:44/19	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00 13:10-13:24/14 10:09-10:33/24
	16:09	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35 13:25-13:38/13
16	08:54 10:26-10:43/17	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01 13:10-13:39/29
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35 10:09-10:34/25
17	08:53 10:27-10:43/16	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:02 13:11-13:25/14 10:10-10:34/24
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35 13:26-13:40/14
18	08:52 10:29-10:42/13	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02 13:11-13:41/30
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35 10:10-10:35/25
19	08:50 10:31-10:41/10	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03 13:10-13:40/30
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:35 10:10-10:34/24
20	08:49 10:34-10:38/4	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04 13:11-13:41/30
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36 10:11-10:35/24
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:05 13:12-13:42/30
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:05	15:57	15:36 10:12-10:36/24
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21 10:10-10:14/4	09:05 13:12-13:42/30
	16:23	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37 10:12-10:36/24
23	08:44	07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:07	08:13	08:23 10:07-10:17/10	09:06 13:13-13:43/30
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37 10:13-10:37/24
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25 10:06-10:19/13	09:06 13:13-13:43/30
	16:28	17:40	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38 10:13-10:37/24
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27 10:05-10:21/16	09:06 13:14-13:43/29
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38 10:13-10:37/24
26	08:39	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29 10:05-10:22/17	09:07 13:14-13:44/30
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:50	15:39 10:13-10:38/25
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31 10:04-10:23/19	09:07 13:15-13:29/14 10:14-10:38/24
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40 13:30-13:44/14
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33 10:04-10:24/20	09:07 13:16-13:30/14 10:14-10:39/25
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41 13:31-13:44/13
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35 10:03-10:24/21	09:07 13:17-13:30/13 10:15-10:40/25
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42 13:32-13:45/13
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37 10:04-10:26/22	09:07 13:17-13:29/12 10:16-10:40/24
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43 13:32-13:44/12
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07 13:19-13:30/11 10:16-10:40/24
	16:44		19:59		22:07		21:43	20:26		16:40		15:44 13:34-13:44/10
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Sum of minutes with flicker	439	0	0	0	0	0	0	0	0	0	142	1331

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 8 - Z9

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:06	08:27	07:19	06:54 19:21-19:32/11	05:34 19:44-20:17/33	04:33
	15:46	16:46	17:52	20:01 17:43-18:36/53	21:07 18:35-19:17/42	22:08
2	09:06	08:25	07:17	06:51 19:18-19:34/16 18:58-19:07/9	05:31 19:43-20:16/33	04:32
	15:47	16:48	17:54	20:03 17:43-18:35/52	21:09 18:36-19:16/40	22:10
3	09:06	08:23	07:14	06:48 19:16-19:36/20 18:52-19:12/20	05:29 19:44-20:16/32	04:31
	15:48	16:51	17:56	20:05 17:43-18:34/51	21:12 18:37-19:15/38	22:11
4	09:05	08:21	07:11	06:45 19:15-19:37/22 18:48-19:14/26	05:26 19:44-20:16/32	04:29
	15:50	16:53	17:59	20:08 17:43-18:33/50	21:14 18:38-19:14/36	22:13
5	09:05	08:18	07:09	06:43 18:46-19:38/52	05:24 19:44-20:16/32	04:28
	15:51	16:55	18:01	20:10 17:44-18:33/49	21:16 18:40-19:13/33	22:14
6	09:04	08:16	07:06	06:40 18:44-19:38/54	05:22 19:44-20:16/32	04:27
	15:53	16:58	18:03	20:12 17:44-18:32/48	21:18 18:42-19:11/29	22:15
7	09:03	08:14	07:03	06:37 18:42-19:37/55	05:19 19:44-20:14/30	04:26
	15:54	17:00	18:06	20:14 17:44-18:30/46	21:20 18:43-19:08/25	22:17
8	09:03	08:12	07:00	06:34 18:40-19:37/57	05:17 19:44-20:14/30	04:26 21:35-21:36/1
	15:56	17:03	18:08	20:16 17:45-18:29/44	21:23 18:45-19:06/21	22:18
9	09:02	08:10	06:58	06:32 18:39-19:37/58	05:15 19:45-20:13/28	04:25 21:34-21:37/3
	15:57	17:05	18:10	20:19 17:47-18:28/41	21:25 18:48-19:03/15	22:19 21:26-21:33/7
10	09:01	08:07	06:55	06:29 18:37-19:36/59	05:13 19:46-20:12/26	04:24 21:25-21:38/13
	15:59	17:07	18:12	20:21 17:47-18:26/39	21:27 18:55-18:57/2	22:20
11	09:00	08:05	06:52	06:26 18:36-19:35/59	05:10 19:47-20:12/25	04:23 21:24-21:38/14
	16:01	17:10	18:15	20:23 17:48-18:24/36	21:29	22:21
12	08:59	08:03	06:50	06:23 18:35-19:35/60	05:08 19:48-20:11/23	04:23 21:24-21:40/16
	16:03	17:12	18:17	20:25 17:51-18:23/32	21:31	22:22
13	08:58	08:00	06:47 17:06-17:23/17	06:21 18:34-19:33/59	05:06 19:49-20:09/20	04:22 21:23-21:40/17
	16:05	17:14	18:19	20:27 17:53-18:20/27	21:33	22:23
14	08:57	07:58	06:44 17:02-17:26/24	06:18 18:33-19:31/58	05:04 19:51-20:09/18	04:22 21:23-21:41/18
	16:07	17:17	18:21	20:30 17:56-18:18/22	21:35	22:24
15	08:55	07:55	06:41 16:59-17:28/29	06:15 18:33-19:30/57	05:02 19:53-20:07/14	04:22 21:23-21:41/18
	16:09	17:19	18:24	20:32 17:59-18:13/14	21:37	22:24
16	08:54	07:53	06:38 16:57-17:31/34	06:12 18:32-19:26/54	05:00 19:55-20:04/9	04:21 21:23-21:42/19
	16:11	17:22	18:26	20:34	21:39	22:25
17	08:53	07:50	06:36 16:55-17:32/37	06:10 18:32-19:25/53	04:58	04:21 21:23-21:43/20
	16:13	17:24	18:28	20:36	21:41	22:26 05:11-05:13/2
18	08:51	07:48	06:33 16:53-17:33/40	06:07 18:31-19:24/53	04:56	04:21 21:23-21:43/20
	16:15	17:26	18:30	20:39	21:43	22:26 05:10-05:14/4
19	08:50	07:45	06:30 16:51-17:34/43	06:04 18:32-19:24/52	04:54	04:21 21:23-21:44/21
	16:17	17:29	18:32	20:41	21:45	22:27 05:10-05:15/5
20	08:49	07:43	06:27 16:49-17:35/46	06:02 19:59-20:05/6	04:52	04:21 21:23-21:44/21
	16:19	17:31	18:35	20:43 18:31-19:24/53	21:47	22:27 05:10-05:15/5
21	08:47	07:40	06:24 16:48-17:35/47	05:59 19:55-20:10/15	04:50	04:21 21:23-21:44/21
	16:21	17:33	18:37	20:45 18:31-19:24/53	21:49	22:27 05:09-05:15/6
22	08:45	07:38	06:22 16:48-17:37/49	05:57 19:52-20:11/19	04:48	04:21 21:23-21:44/21
	16:23	17:36	18:39	20:47 18:31-19:23/52	21:51	22:27 05:09-05:15/6
23	08:44	07:35	06:19 16:47-17:37/50	05:54 19:51-20:13/22	04:47	04:21 21:24-21:45/21
	16:25	17:38	18:41	20:50 18:31-19:23/52	21:53	22:28 05:11-05:16/5
24	08:42	07:33	06:16 16:45-17:37/52	05:51 19:49-20:14/25	04:45	04:22 21:24-21:44/20
	16:28	17:40	18:43	20:52 18:31-19:22/51	21:55	22:28 05:11-05:16/5
25	08:40	07:30	06:13 16:45-17:37/52	05:49 19:48-20:15/27	04:43	04:22 21:24-21:44/20
	16:30	17:43	18:46	20:54 18:32-19:22/50	21:57	22:28 05:13-05:15/2
26	08:39	07:27	06:10 16:44-17:37/53	05:46 19:46-20:15/29	04:42	04:23 21:25-21:44/19
	16:32	17:45	18:48	20:56 18:32-19:21/49	21:59	22:27
27	08:37	07:25	06:08 16:44-17:37/53	05:44 19:46-20:16/30	04:40	04:23 21:25-21:44/19
	16:34	17:47	18:50	20:58 18:32-19:21/49	22:00	22:27
28	08:35	07:22	06:05 16:43-17:37/54	05:41 19:46-20:17/31	04:38	04:24 21:26-21:44/18
	16:37	17:50	18:52	21:01 18:33-19:20/47	22:02	22:27
29	08:33		07:02 17:43-18:37/54	05:39 19:44-20:16/32	04:37	04:24 21:27-21:44/17
	16:39		19:54	21:03 18:33-19:19/46	22:04	22:27
30	08:31		06:59 17:42-18:36/54	05:36 19:44-20:16/32	04:36	04:25 21:27-21:43/16
	16:41		19:57	21:05 18:34-19:18/44	22:05	22:26
31	08:29		06:56 19:24-19:29/5		04:34	
	16:44		19:59 17:42-18:36/54		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	0	0	847	2382	698	440

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 8 - Z9

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July		August		September			October		November	December
1	04:26	21:28-21:43/15	05:15	19:58-20:22/24	06:21	18:36-19:34/58		07:24	17:49-17:59/10	07:33	08:39
	22:26		21:41		20:23	17:48-18:24/36		18:59		16:38	15:43
2	04:27	21:29-21:43/14	05:17	19:57-20:22/25	06:23	18:36-19:35/59		07:27		07:36	08:41
	22:25		21:39		20:21	17:46-18:25/39		18:57		16:36	15:42
3	04:28	21:31-21:42/11	05:19	19:56-20:23/27	06:25	18:37-19:35/58		07:29		07:38	08:42
	22:25		21:37	19:01-19:11/10	20:18	17:45-18:26/41		18:54		16:33	15:41
4	04:29	21:40-21:42/2	05:21	19:55-20:24/29	06:27	18:38-19:35/57		07:31		07:40	08:44
	22:24	21:33-21:37/4	21:35	18:57-19:15/18	20:15	17:43-18:27/44		18:51		16:31	15:40
5	04:30		05:23	19:55-20:24/29	06:29	18:39-19:34/55		07:33		07:43	08:46
	22:23		21:32	18:54-19:17/23	20:12	17:41-18:27/46		18:48		16:29	15:40
6	04:31		05:26	19:54-20:25/31	06:31	18:40-19:34/54		07:35		07:45	08:47
	22:22		21:30	18:52-19:19/27	20:09	17:40-18:28/48		18:45		16:26	15:39
7	04:32		05:28	19:54-20:25/31	06:34	18:41-19:33/52		07:37		07:47	08:49
	22:22		21:28	18:50-19:21/31	20:07	17:39-18:28/49		18:43		16:24	15:38
8	04:33		05:30	19:53-20:25/32	06:36	18:43-19:32/49		07:40		07:50	08:50
	22:21		21:25	18:49-19:22/33	20:04	17:38-18:28/50		18:40		16:22	15:37
9	04:35		05:32	19:53-20:25/32	06:38	19:10-19:30/20	18:46-19:06/20	07:42		07:52	08:52
	22:20		21:23	18:47-19:23/36	20:01	17:37-18:28/51		18:37		16:20	15:37
10	04:36		05:34	19:53-20:25/32	06:40	19:11-19:27/16	18:51-19:01/10	07:44		07:54	08:53
	22:19		21:21	18:46-19:24/38	19:58	17:36-18:28/52		18:35		16:18	15:36
11	04:37		05:36	19:53-20:25/32	06:42	19:13-19:25/12		07:46		07:56	08:55
	22:17		21:18	18:45-19:25/40	19:56	17:35-18:28/53		18:32		16:16	15:36
12	04:39		05:38	19:53-20:25/32	06:44	19:15-19:22/7		07:48		07:59	08:56
	22:16		21:16	18:43-19:26/43	19:53	17:34-18:28/54		18:29		16:14	15:36
13	04:40		05:40	19:53-20:25/32	06:46	17:34-18:28/54		07:50		08:01	08:57
	22:15		21:13	18:42-19:27/45	19:50			18:26		16:12	15:35
14	04:42		05:42	19:53-20:24/31	06:48	17:33-18:27/54		07:53		08:03	08:58
	22:14		21:11	18:41-19:27/46	19:47			18:24		16:10	15:35
15	04:44		05:45	19:53-20:24/31	06:50	17:33-18:27/54		07:55		08:06	08:59
	22:12		21:08	18:41-19:28/47	19:44			18:21		16:08	15:35
16	04:45		05:47	19:52-20:22/30	06:53	17:32-18:26/54		07:57		08:08	09:00
	22:11		21:06	18:40-19:28/48	19:41			18:18		16:06	15:35
17	04:47		05:49	19:53-20:21/28	06:55	17:32-18:25/53		07:59		08:10	09:01
	22:09		21:03	18:39-19:28/49	19:39			18:16		16:04	15:35
18	04:48		05:51	19:54-20:20/26	06:57	17:32-18:25/53		08:02		08:12	09:02
	22:08		21:01	18:37-19:28/51	19:36			18:13		16:02	15:35
19	04:50		05:53	19:54-20:19/25	06:59	17:32-18:24/52		08:04		08:14	09:03
	22:06		20:58	18:37-19:28/51	19:33			18:10		16:00	15:35
20	04:52		05:55	19:56-20:17/21	07:01	17:32-18:23/51		08:06		08:17	09:04
	22:04		20:55	18:36-19:28/52	19:30			18:08		15:59	15:36
21	04:54		05:57	19:57-20:16/19	07:03	17:33-18:23/50		08:08		08:19	09:04
	22:03		20:53	18:35-19:28/53	19:27			18:05		15:57	15:36
22	04:56		06:00	19:59-20:13/14	07:05	17:33-18:21/48		08:11		08:21	09:05
	22:01		20:50	18:35-19:28/53	19:25			18:03		15:55	15:36
23	04:57		06:02	20:04-20:08/4	07:07	17:34-18:20/46		08:13		08:23	09:05
	21:59		20:48	18:35-19:27/52	19:22			18:00		15:54	15:37
24	04:59		06:04	18:34-19:27/53	07:09	17:34-18:18/44		08:15		08:25	09:06
	21:57		20:45		19:19			17:58		15:52	15:38
25	05:01		06:06	18:34-19:27/53	07:12	17:35-18:17/42		07:17		08:27	09:06
	21:55		20:42		19:16			16:55		15:51	15:38
26	05:03		06:08	18:34-19:26/52	07:14	17:36-18:15/39		07:20		08:29	09:06
	21:53		20:40		19:13			16:53		15:49	15:39
27	05:05	20:08-20:12/4	06:10	18:34-19:28/54	07:16	17:37-18:13/36		07:22		08:31	09:07
	21:52		20:37		19:11			16:50		15:48	15:40
28	05:07	20:04-20:16/12	06:12	18:35-19:31/56	07:18	17:39-18:10/31		07:24		08:33	09:07
	21:50		20:34	18:01-18:15/14	19:08			16:48		15:47	15:41
29	05:09	20:02-20:18/16	06:14	18:35-19:32/57	07:20	17:42-18:08/26		07:27		08:35	09:07
	21:47		20:31	17:56-18:19/23	19:05			16:45		15:46	15:42
30	05:11	20:01-20:20/19	06:17	18:35-19:33/58	07:22	17:44-18:05/21		07:29		08:37	09:07
	21:45		20:29	17:53-18:21/28	19:02			16:43		15:44	15:43
31	05:13	19:59-20:21/22	06:19	18:35-19:34/59				07:31			09:07
	21:43		20:26	17:51-18:23/32				16:40			15:44
Potential sun hours	538		474		386			321		241	207
Sum of minutes with flicker	119		2002		1898			10		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 9 - Z10

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January		February		March	April	May		June	
1	09:06		08:27	15:05-15:52/47	07:19	06:54	05:34		04:33	20:41-20:58/17
	15:45		16:46		17:52	20:01	21:07		22:09	
2	09:06		08:25	15:06-15:52/46	07:17	06:51	05:31		04:32	20:42-20:57/15
	15:47		16:48		17:54	20:03	21:09		22:10	
3	09:06		08:23	15:07-15:53/46	07:14	06:48	05:29		04:30	20:43-20:56/13
	15:48		16:51		17:56	20:05	21:12		22:12	
4	09:05		08:21	15:07-15:52/45	07:11	06:45	05:26		04:29	20:44-20:55/11
	15:49		16:53		17:59	20:08	21:14		22:13	
5	09:05		08:18	15:09-15:52/43	07:09	06:43	05:24		04:28	20:46-20:55/9
	15:51		16:55		18:01	20:10	21:16		22:14	
6	09:04		08:16	15:10-15:51/41	07:06	06:40	05:22		04:27	20:47-20:54/7
	15:52		16:58		18:03	20:12	21:18		22:16	
7	09:03		08:14	15:12-15:51/39	07:03	06:37	05:19		04:26	20:49-20:52/3
	15:54		17:00		18:06	20:14	21:20		22:17	
8	09:03		08:12	15:27-15:50/23	07:00	06:34	05:17	20:46-20:47/1	04:26	
	15:56		17:03	15:14-15:25/11	18:08	20:16	21:23		22:18	
9	09:02		08:10	15:28-15:50/22	06:58	06:32	05:15	20:42-20:49/7	04:25	
	15:57		17:05		18:10	20:19	21:25		22:19	
10	09:01		08:07	15:29-15:48/19	06:55	06:29	05:13	20:41-20:51/10	04:24	
	15:59		17:07		18:12	20:21	21:27		22:20	
11	09:00		08:05	15:32-15:47/15	06:52	06:26	05:10	20:39-20:53/14	04:23	
	16:01		17:10		18:15	20:23	21:29		22:21	
12	08:59	15:11-15:16/5	08:03	15:34-15:44/10	06:50	06:23	05:08	20:38-20:55/17	04:23	
	16:03		17:12		18:17	20:25	21:31		22:22	
13	08:58	15:09-15:19/10	08:00		06:47	06:21	05:06	20:37-20:57/20	04:22	
	16:05		17:14		18:19	20:27	21:33		22:23	
14	08:57	15:07-15:21/14	07:58		06:44	06:18	05:04	20:38-20:59/21	04:22	
	16:07		17:17		18:21	20:30	21:35		22:24	
15	08:55	15:06-15:22/16	07:55		06:41	06:15	05:02	20:37-21:00/23	04:22	
	16:09		17:19		18:24	20:32	21:37		22:24	
16	08:54	15:06-15:24/18	07:53		06:38	06:12	05:00	20:37-21:00/23	04:21	
	16:11		17:21		18:26	20:34	21:39		22:25	
17	08:53	15:05-15:25/20	07:50		06:36	06:10	04:58	20:36-21:00/24	04:21	
	16:13		17:24		18:28	20:36	21:41		22:26	
18	08:51	15:04-15:26/22	07:48		06:33	06:07	04:56	20:36-21:00/24	04:21	
	16:15		17:26		18:30	20:39	21:43		22:26	
19	08:50	15:04-15:28/24	07:45		06:30	06:04	04:54	20:36-21:01/25	04:21	
	16:17		17:29		18:32	20:41	21:45		22:27	
20	08:49	15:04-15:29/25	07:43		06:27	06:02	04:52	20:36-21:00/24	04:21	
	16:19		17:31		18:35	20:43	21:47		22:27	
21	08:47	15:31-15:40/9	07:40		06:24	05:59	04:50	20:37-21:01/24	04:21	
	16:21	15:04-15:29/25	17:33		18:37	20:45	21:49		22:27	
22	08:45	15:03-15:43/40	07:38		06:22	05:57	04:48	20:36-21:01/25	04:21	
	16:23		17:36		18:39	20:47	21:51		22:27	
23	08:44	15:03-15:45/42	07:35		06:19	05:54	04:46	20:36-21:00/24	04:21	
	16:25		17:38		18:41	20:50	21:53		22:28	
24	08:42	15:03-15:46/43	07:33		06:16	05:51	04:45	20:37-21:00/23	04:22	
	16:28		17:40		18:43	20:52	21:55		22:28	
25	08:40	15:03-15:47/44	07:30		06:13	05:49	04:43	20:38-21:00/22	04:22	
	16:30		17:43		18:46	20:54	21:57		22:28	
26	08:39	15:03-15:49/46	07:27		06:10	05:46	04:41	20:37-21:00/23	04:23	
	16:32		17:45		18:48	20:56	21:59		22:28	
27	08:37	15:04-15:50/46	07:25		06:08	05:44	04:40	20:38-21:00/22	04:23	
	16:34		17:47		18:50	20:58	22:00		22:27	
28	08:35	15:03-15:50/47	07:22		06:05	05:41	04:38	20:39-21:00/21	04:24	
	16:37		17:50		18:52	21:01	22:02		22:27	
29	08:33	15:04-15:50/46			07:02	05:39	04:37	20:40-20:59/19	04:24	
	16:39				19:54	21:03	22:04		22:27	
30	08:31	15:04-15:51/47			06:59	05:36	04:35	20:40-20:58/18	04:25	
	16:41				19:57	21:05	22:05		22:26	
31	08:29	15:05-15:52/47			06:56		04:34	20:40-20:58/18		
	16:44				19:59		22:07			
Potential sun hours	227		262		365	429	515		539	
Sum of minutes with flicker	636		407		0	0	472		75	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 9 - Z10

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July		August		September	October		November		December
1	04:26		05:15	20:49-21:04/15	06:21	07:24		07:33	14:59-15:18/19	08:39
	22:26		21:41		20:23	18:59		16:38		15:43
2	04:27		05:17	20:50-21:02/12	06:23	07:27		07:36	14:58-15:20/22	08:41
	22:25		21:39		20:21	18:57		16:36		15:42
3	04:28		05:19	20:51-21:01/10	06:25	07:29		07:38	14:56-15:20/24	08:42
	22:25		21:37		20:18	18:54		16:33	14:43-14:55/12	15:41
4	04:29		05:21	20:54-20:59/5	06:27	07:31		07:40	14:41-15:21/40	08:44
	22:24		21:35		20:15	18:51		16:31		15:40
5	04:30		05:23		06:29	07:33		07:43	14:40-15:22/42	08:46
	22:23		21:32		20:12	18:48		16:29		15:39
6	04:31	20:54-21:00/6	05:25		06:31	07:35		07:45	14:38-15:22/44	08:47
	22:23		21:30		20:09	18:45		16:26		15:39
7	04:32	20:53-21:01/8	05:28		06:34	07:37		07:47	14:38-15:23/45	08:49
	22:22		21:28		20:07	18:43		16:24		15:38
8	04:33	20:52-21:03/11	05:30		06:36	07:40		07:50	14:37-15:22/45	08:51
	22:21		21:25		20:04	18:40		16:22		15:37
9	04:35	20:51-21:03/12	05:32		06:38	07:42		07:52	14:36-15:23/47	08:52
	22:20		21:23		20:01	18:37		16:20		15:37
10	04:36	20:50-21:04/14	05:34		06:40	07:44		07:54	14:36-15:22/46	08:53
	22:19		21:21		19:58	18:35		16:18		15:36
11	04:37	20:50-21:06/16	05:36		06:42	07:46		07:56	14:36-15:23/47	08:55
	22:17		21:18		19:56	18:32		16:16		15:36
12	04:39	20:49-21:06/17	05:38		06:44	07:48		07:59	14:36-15:23/47	08:56
	22:16		21:16		19:53	18:29		16:14		15:36
13	04:40	20:48-21:07/19	05:40		06:46	07:50		08:01	14:35-15:22/47	08:57
	22:15		21:13		19:50	18:26		16:12		15:35
14	04:42	20:49-21:08/19	05:42		06:48	07:53		08:03	14:36-15:22/46	08:58
	22:14		21:11		19:47	18:24		16:10		15:35
15	04:43	20:48-21:08/20	05:45		06:50	07:55		08:06	14:36-15:21/45	08:59
	22:12		21:08		19:44	18:21		16:08		15:35
16	04:45	20:47-21:08/21	05:47		06:53	07:57		08:08	14:36-15:21/45	09:00
	22:11		21:06		19:41	18:18		16:06		15:35
17	04:47	20:47-21:09/22	05:49		06:55	07:59		08:10	14:36-15:20/44	09:01
	22:09		21:03		19:39	18:16		16:04		15:35
18	04:48	20:46-21:09/23	05:51		06:57	08:02		08:12	14:37-15:20/43	09:02
	22:08		21:01		19:36	18:13		16:02		15:35
19	04:50	20:47-21:10/23	05:53		06:59	08:04		08:14	14:37-15:19/42	09:03
	22:06		20:58		19:33	18:10		16:00		15:35
20	04:52	20:47-21:11/24	05:55		07:01	08:06		08:17	14:38-15:18/40	09:04
	22:04		20:55		19:30	18:08		15:59		15:36
21	04:54	20:46-21:10/24	05:57		07:03	08:08		08:19	15:06-15:15/9	09:04
	22:03		20:53		19:27	18:05		15:57	14:39-15:04/25	15:36
22	04:56	20:46-21:11/25	06:00		07:05	08:11		08:21	14:40-15:05/25	09:05
	22:01		20:50		19:25	18:03		15:55		15:36
23	04:57	20:46-21:10/24	06:02		07:07	08:13		08:23	14:40-15:04/24	09:05
	21:59		20:48		19:22	18:00		15:54		15:37
24	04:59	20:46-21:11/25	06:04		07:09	08:15		08:25	14:42-15:04/22	09:06
	21:57		20:45		19:19	17:58		15:52		15:38
25	05:01	20:47-21:11/24	06:06		07:12	07:17		08:27	14:43-15:03/20	09:06
	21:55		20:42		19:16	16:55		15:51		15:38
26	05:03	20:47-21:11/24	06:08		07:14	07:20		08:29	14:44-15:02/18	09:06
	21:54		20:40		19:13	16:53		15:49		15:39
27	05:05	20:46-21:10/24	06:10		07:16	07:22		08:31	14:46-15:02/16	09:07
	21:52		20:37		19:11	16:50		15:48		15:40
28	05:07	20:47-21:10/23	06:12		07:18	07:24		08:33	14:47-15:01/14	09:07
	21:50		20:34		19:08	16:48		15:47		15:41
29	05:09	20:47-21:10/23	06:14		07:20	07:27		08:35	14:49-14:59/10	09:07
	21:48		20:31		19:05	16:45		15:46		15:42
30	05:11	20:48-21:09/21	06:17		07:22	07:29	15:03-15:14/11	08:37	14:52-14:57/5	09:07
	21:45		20:29		19:02	16:43		15:44		15:43
31	05:13	20:49-21:07/18	06:19			07:31	15:01-15:17/16			09:07
	21:43		20:26			16:40				15:44
Potential sun hours	538		474		386	321		241		207
Sum of minutes with flicker	510		42		0	27		1020		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 10 - Z12

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:07 11:46-14:10/144 09:50-09:55/5	08:27 11:55-13:19/84 09:50-10:10/20	07:20 08:04-08:36/32	06:54	05:34	04:33
	15:45 14:22-14:45/23 10:12-10:38/26	16:46 13:35-13:44/9	17:52	20:01	21:07	22:09
2	09:06 11:47-14:11/144 09:49-09:56/7	08:25 11:55-13:17/82	07:17 08:04-08:36/32	06:51	05:31	04:32
	15:47 14:23-14:46/23 10:12-10:38/26	16:48 09:51-10:08/17	17:54	20:03	21:10	22:10
3	09:06 11:47-14:11/144 09:48-09:57/9	08:23 11:56-13:16/80	07:14 08:04-08:35/31	06:48	05:29	04:30
	15:48 14:23-14:47/24 10:12-10:38/26	16:51 09:53-10:07/14	17:56	20:06	21:12	22:12
4	09:05 11:47-14:11/144 09:47-09:58/11	08:21 11:56-13:14/78	07:11 08:05-08:35/30	06:45	05:26	04:29
	15:49 14:23-14:47/24 10:12-10:39/27	16:53 09:57-10:04/7	17:59	20:08	21:14	22:13
5	09:05 11:47-14:12/145 09:47-10:00/13	08:19 11:57-12:43/46	07:09 08:06-08:34/28	06:43	05:24	04:28
	15:51 14:23-14:47/24 10:13-10:40/27	16:55 12:45-13:13/28	18:01	20:10	21:16	22:14
6	09:04 11:48-14:13/145 09:46-10:01/15	08:16 11:59-12:43/44	07:06 08:07-08:33/26	06:40	05:22	04:27
	15:52 14:25-14:49/24 10:13-10:41/28	16:58 12:48-13:11/23	18:03	20:12	21:18	22:16
7	09:04 11:48-14:14/146 09:46-10:02/16	08:14 12:00-12:41/41	07:03 08:09-08:31/22	06:37	05:19	04:26
	15:54 14:25-14:49/24 10:14-10:41/27	17:00 12:51-13:08/17	18:06	20:14	21:21	22:17
8	09:03 11:47-14:13/146 09:46-10:03/17	08:12 12:01-12:40/39	07:01 08:11-08:29/18	06:34	05:17	04:25
	15:56 14:25-14:49/24 10:14-10:42/28	17:03 12:58-13:02/4	18:08	20:17	21:23	22:18
9	09:02 11:48-14:14/146 09:45-10:03/18	08:10 12:03-12:38/35	06:58 08:14-08:27/13	06:32	05:15	04:25
	15:57 14:25-14:49/24 10:14-10:41/27	17:05	18:10	20:19	21:25	22:19
10	09:01 11:48-14:14/146 09:45-10:04/19	08:07 12:05-12:37/32	06:55 08:18-08:22/4	06:29	05:13	04:24
	15:59 14:26-14:50/24 10:15-10:42/27	17:07	18:12	20:21	21:27	22:20
11	09:00 11:48-14:15/147 09:45-10:06/21	08:05 12:07-12:34/27	06:52	06:26	05:10	04:23
	16:01 14:27-14:50/23 10:15-10:43/28	17:10	18:15	20:23	21:29	22:21
12	08:59 11:48-14:15/147 09:44-10:06/22	08:03 12:10-12:32/22	06:50	06:23	05:08	04:23
	16:03 14:27-14:50/23 10:15-10:42/27	17:12	18:17	20:25	21:31	22:22
13	08:58 11:49-14:16/147 09:44-10:07/23	08:00 12:15-12:27/12	06:47	06:21	05:06	04:22
	16:05 14:28-14:51/23 10:16-10:43/27	17:14	18:19	20:28	21:33	22:23
14	08:57 11:48-14:15/147 09:44-10:07/23	07:58	06:44	06:18	05:04	04:22
	16:07 14:28-14:50/22 10:16-10:43/27	17:17	18:21	20:30	21:35	22:24
15	08:56 11:49-14:16/147 09:44-10:08/24	07:55	06:41	06:15	05:02	04:21
	16:09 14:29-14:51/22 10:17-10:44/27	17:19	18:24	20:32	21:38	22:25
16	08:54 11:49-14:16/147 09:44-10:08/24	07:53	06:39	06:13	05:00	04:21
	16:11 14:30-14:50/20 10:18-10:43/25	17:22	18:26	20:34	21:40	22:25
17	08:53 11:49-14:16/147 09:43-10:09/26	07:51	06:36	06:10	04:58	04:21
	16:13 14:30-14:50/20 10:18-10:43/25	17:24	18:28	20:36	21:42	22:26
18	08:52 11:50-14:17/147 09:44-10:10/26	07:48	06:33	06:07	04:56	04:21
	16:15 14:32-14:50/18 10:19-10:44/25	17:26	18:30	20:39	21:44	22:26
19	08:50 11:49-14:17/148 09:44-10:10/26	07:46	06:30	06:04	04:54	04:21
	16:17 14:33-14:50/17 10:20-10:43/23	17:29	18:32	20:41	21:46	22:27
20	08:49 11:50-14:16/146 09:44-10:10/26	07:43 08:15-08:29/14	06:27	06:02	04:52	04:21
	16:19 14:34-14:49/15 10:21-10:43/22	17:31	18:35	20:43	21:48	22:27
21	08:47 11:50-14:16/146 09:44-10:10/26	07:40 08:11-08:31/20	06:25	05:59	04:50	04:21
	16:21 14:36-14:48/12 10:22-10:42/20	17:33	18:37	20:45	21:50	22:27
22	08:46 11:50-14:16/146 09:44-10:11/27	07:38 08:09-08:33/24	06:22	05:57	04:48	04:21
	16:23 14:39-14:46/7 10:23-10:41/18	17:36	18:39	20:48	21:51	22:28
23	08:44 11:50-14:15/145 10:24-10:40/16	07:35 08:07-08:34/27	06:19	05:54	04:46	04:21
	16:25 09:44-10:11/27	17:38	18:41	20:50	21:53	22:28
24	08:42 11:50-14:15/145 10:26-10:39/13	07:33 08:07-08:35/28	06:16	05:51	04:45	04:22
	16:28 09:44-10:11/27	17:40	18:44	20:52	21:55	22:28
25	08:40 11:51-14:14/143 10:30-10:37/7	07:30 08:05-08:36/31	06:13	05:49	04:43	04:22
	16:30 09:45-10:12/27	17:43	18:46	20:54	21:57	22:28
26	08:39 11:51-13:21/90 09:45-10:12/27	07:27 08:05-08:36/31	06:11	05:46	04:41	04:22
	16:32 13:22-14:13/51	17:45	18:48	20:56	21:59	22:28
27	08:37 11:52-13:21/89 09:46-10:12/26	07:25 08:04-08:36/32	06:08	05:44	04:40	04:23
	16:34 13:23-14:12/49	17:47	18:50	20:59	22:01	22:28
28	08:35 11:52-13:21/89 09:46-10:12/26	07:22 08:04-08:37/33	06:05	05:41	04:38	04:24
	16:37 13:25-13:52/27 13:55-14:11/16	17:50	18:52	21:01	22:02	22:27
29	08:33 11:52-13:20/88 09:46-10:11/25		07:02	05:39	04:37	04:24
	16:39 13:26-13:50/24 13:57-14:07/10		19:55	21:03	22:04	22:27
30	08:31 11:53-13:19/86 09:47-10:11/24		06:59	05:36	04:35	04:25
	16:41 13:28-13:49/21		19:57	21:05	22:06	22:27
31	08:29 11:54-13:19/85 09:49-10:10/21		06:57		04:34	
	16:44 13:31-13:47/16		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	6099	1001	236	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 10 - Z12

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October		November		December	
1	04:26	05:15	06:21	07:24		07:34	11:34-12:07/33	08:39	11:31-13:57/146 09:27-09:48/21
	22:26	21:41	20:23	18:59		16:38		15:43	14:09-14:33/24 09:57-10:25/28
2	04:27	05:17	06:23	07:27		07:36	11:32-12:08/36	08:41	11:31-13:58/147 09:28-09:48/20
	22:26	21:39	20:21	18:57		16:36		15:42	14:09-14:33/24 09:58-10:25/27
3	04:28	05:19	06:25	07:29		07:38	11:31-12:10/39	08:43	11:32-13:58/146 09:29-09:47/18
	22:25	21:37	20:18	18:54		16:33	12:26-12:33/7	15:41	14:09-14:33/24 09:58-10:25/27
4	04:29	05:21	06:27	07:31	08:52-09:03/11	07:41	11:29-12:11/42	08:44	11:32-13:58/146 09:30-09:47/17
	22:24	21:35	20:15	18:51		16:31	12:20-12:38/18	15:40	14:10-14:34/24 09:58-10:26/28
5	04:30	05:23	06:29	07:33	08:49-09:05/16	07:43	11:28-12:12/44	08:46	11:33-13:59/146 09:31-09:47/16
	22:24	21:32	20:12	18:48		16:29	12:17-12:41/24	15:39	14:10-14:34/24 09:59-10:26/27
6	04:31	05:25	06:31	07:35	08:47-09:07/20	07:45	11:27-12:13/46	08:48	11:33-13:58/145 09:32-09:47/15
	22:23	21:30	20:10	18:46		16:26	12:15-12:43/28	15:39	14:10-14:34/24 10:00-10:27/27
7	04:32	05:28	06:34	07:37	08:43-09:08/25	07:47	11:27-12:45/78	08:49	11:34-13:59/145 09:33-09:46/13
	22:22	21:28	20:07	18:43		16:24	09:26-09:34/8	15:38	14:10-14:34/24 09:59-10:26/27
8	04:33	05:30	06:36	07:40	08:42-09:09/27	07:50	11:26-12:46/80	08:51	11:35-13:59/144 09:35-09:46/11
	22:21	21:25	20:04	18:40		16:22	09:24-09:38/14	15:37	14:11-14:35/24 10:00-10:27/27
9	04:35	05:32	06:38	07:42	08:40-09:09/29	07:52	11:25-12:48/83	08:52	11:36-14:00/144 09:37-09:46/9
	22:20	21:23	20:01	18:37		16:20	09:22-09:39/17	15:37	14:12-14:36/24 10:01-10:28/27
10	04:36	05:34	06:40	07:44	08:39-09:09/30	07:54	11:25-12:50/85 09:21-09:41/20	08:54	11:36-14:00/144 09:38-09:45/7
	22:19	21:21	19:58	18:35		16:18	13:05-13:15/10	15:36	14:12-14:36/24 10:01-10:27/26
11	04:37	05:36	06:42	07:46	08:39-09:10/31	07:57	11:25-12:50/85 09:19-09:41/22	08:55	11:37-14:01/144 09:40-09:45/5
	22:18	21:18	19:56	18:32		16:16	13:01-13:18/17	15:36	14:13-14:36/23 10:02-10:28/26
12	04:39	05:38	06:44	07:48	08:38-09:10/32	07:59	11:25-12:51/86 09:19-09:43/24	08:56	11:38-14:01/143 09:41-09:44/3
	22:16	21:16	19:53	18:29		16:14	12:59-13:21/22	15:35	14:13-14:36/23 10:02-10:28/26
13	04:40	05:40	06:46	07:51	08:37-09:09/32	08:01	11:24-12:52/88 09:18-09:43/25	08:57	11:38-14:01/143 10:02-10:28/26
	22:15	21:13	19:50	18:26		16:12	12:57-13:22/25 13:29-13:39/10	15:35	14:13-14:36/23
14	04:42	05:42	06:48	07:53	08:37-09:10/33	08:03	11:24-12:53/89 09:18-09:44/26	08:59	11:39-14:02/143 10:04-10:29/25
	22:14	21:11	19:47	18:24		16:10	12:56-13:24/28 13:27-13:43/16	15:35	14:15-14:38/23
15	04:43	05:45	06:50	07:55	08:37-09:09/32	08:06	11:24-12:53/89 09:19-09:45/26	09:00	11:40-14:02/142 10:04-10:29/25
	22:12	21:08	19:44	18:21		16:08	12:55-13:44/49	15:35	14:15-14:38/23
16	04:45	05:47	06:53	07:57	08:37-09:08/31	08:08	11:24-12:54/90 09:18-09:45/27	09:01	11:40-14:02/142 10:05-10:30/25
	22:11	21:06	19:42	18:18		16:06	12:55-13:46/51	15:35	14:16-14:38/22
17	04:47	05:49	06:55	07:59	08:38-09:08/30	08:10	11:25-13:48/143 10:03-10:11/8	09:02	11:41-14:03/142 10:05-10:30/25
	22:09	21:03	19:39	18:16		16:04	09:18-09:46/28	15:35	14:16-14:38/22
18	04:48	05:51	06:57	08:02	08:38-09:06/28	08:12	11:24-13:49/145 10:00-10:13/13	09:02	11:42-14:03/141 10:06-10:31/25
	22:08	21:01	19:36	18:13		16:02	09:18-09:45/27	15:35	14:17-14:39/22
19	04:50	05:53	06:59	08:04	08:38-09:04/26	08:15	11:25-13:50/145 09:59-10:15/16	09:03	11:41-14:03/142 10:05-10:30/25
	22:06	20:58	19:33	18:11		16:00	09:19-09:46/27	15:35	14:16-14:39/23
20	04:52	05:55	07:01	08:06	08:40-09:03/23	08:17	11:25-13:51/146 09:19-09:46/27	09:04	11:42-14:04/142 10:06-10:31/25
	22:05	20:56	19:30	18:08		15:59	14:14-14:21/7 09:58-10:16/18	15:36	14:17-14:39/22
21	04:54	05:57	07:03	08:08	08:42-09:01/19	08:19	11:26-13:52/146 09:20-09:46/26	09:05	11:43-14:05/142 10:07-10:32/25
	22:03	20:53	19:27	18:05		15:57	14:12-14:24/12 09:58-10:18/20	15:36	14:18-14:40/22
22	04:56	06:00	07:05	08:11	08:50-08:58/8	08:21	11:26-13:52/146 09:20-09:46/26	09:05	11:43-14:05/142 10:07-10:32/25
	22:01	20:50	19:25	18:03		15:55	14:10-14:25/15 09:57-10:19/22	15:36	14:18-14:40/22
23	04:57	06:02	07:07	08:13		08:23	11:26-13:53/147 09:21-09:47/26	09:06	11:44-14:06/142 10:08-10:33/25
	21:59	20:48	19:22	18:00		15:54	14:09-14:26/17 09:57-10:20/23	15:37	14:19-14:41/22
24	04:59	06:04	07:10	08:15		08:25	11:27-13:54/147 09:21-09:47/26	09:06	11:44-14:06/142 10:08-10:33/25
	21:58	20:45	19:19	17:58		15:52	14:09-14:27/18 09:56-10:21/25	15:38	14:19-14:42/23
25	05:01	06:06	07:12	07:18		08:27	11:27-13:54/147 09:21-09:47/26	09:06	11:45-14:06/141 10:09-10:34/25
	21:56	20:42	19:16	16:55		15:51	14:08-14:28/20 09:56-10:21/25	15:38	14:20-14:42/22
26	05:03	06:08	07:14	07:20		08:29	11:28-13:55/147 09:23-09:47/24	09:07	11:45-14:07/142 10:09-10:34/25
	21:54	20:40	19:13	16:53		15:49	14:09-14:30/21 09:57-10:22/25	15:39	14:20-14:42/22
27	05:05	06:10	07:16	07:22		08:31	11:28-13:55/147 09:23-09:47/24	09:07	11:45-14:07/142 10:09-10:35/26
	21:52	20:37	19:11	16:50		15:48	14:08-14:30/22 09:56-10:23/27	15:40	14:20-14:43/23
28	05:07	06:12	07:18	07:24		08:33	11:28-13:56/148 09:24-09:47/23	09:07	11:46-14:08/142 10:10-10:35/25
	21:50	20:34	19:08	16:48		15:47	14:08-14:30/22 09:56-10:23/27	15:41	14:21-14:43/22
29	05:09	06:14	07:20	07:27	11:43-11:57/14	08:35	11:29-13:56/147 09:25-09:47/22	09:07	11:46-14:09/143 10:10-10:36/26
	21:48	20:32	19:05	16:45		15:46	14:08-14:31/23 09:56-10:23/27	15:42	14:21-14:44/23
30	05:11	06:17	07:22	07:29	11:38-12:01/23	08:37	11:29-13:56/147 09:26-09:48/22	09:07	11:46-14:08/142 10:11-10:37/26
	21:46	20:29	19:02	16:43		15:44	14:08-14:31/23 09:57-10:25/28	15:43	14:21-14:44/23
31	05:13	06:19		07:31	11:36-12:04/28			09:07	11:46-14:09/143 09:50-09:52/2
	21:44	20:26		16:40				15:44	14:22-14:45/23 10:11-10:37/26
Potential sun hours	538	474	386	321		241		207	
Sum of minutes with flicker	0	0	0	548		4513		6113	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 11 - Z13

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March		April	May	June
1	09:06 10:36-11:40/64 12:20-12:37/17	08:27	07:19		06:54	05:34	04:33
	15:45 11:49-12:15/26	16:46	17:52		20:01	21:07	22:09
2	09:06 10:37-11:41/64 12:22-12:38/16	08:25	07:17		06:51	05:31	04:32
	15:47 11:50-12:16/26	16:48	17:54		20:03	21:10	22:10
3	09:06 10:38-11:41/63 12:22-12:37/15	08:23	07:14		06:48	05:29	04:30
	15:48 11:51-12:16/25	16:51	17:56		20:05	21:12	22:12
4	09:05 10:38-11:41/63 12:24-12:37/13	08:21	07:11		06:45	05:26	04:29
	15:49 11:51-12:15/24	16:53	17:59		20:08	21:14	22:13
5	09:05 10:38-11:41/63 12:25-12:36/11	08:19	07:09		06:43	05:24	04:28
	15:51 11:52-12:15/23	16:55	18:01		20:10	21:16	22:14
6	09:04 10:39-11:43/64 12:28-12:36/8	08:16	07:06		06:40	05:22	04:27
	15:52 11:54-12:16/22	16:58	18:03		20:12	21:18	22:16
7	09:03 10:40-11:43/63	08:14	07:03		06:37	05:19	04:26
	15:54 11:55-12:16/21	17:00	18:06		20:14	21:21	22:17
8	09:03 10:39-11:42/63	08:12	07:01		06:34	05:17	04:25
	15:56 11:55-12:15/20	17:03	18:08		20:17	21:23	22:18
9	09:02 10:40-11:43/63	08:10	06:58		06:32	05:15	04:25
	15:57 11:57-12:15/18	17:05	18:10		20:19	21:25	22:19
10	09:01 10:40-11:43/63	08:07	06:55		06:29	05:13	04:24
	15:59 11:58-12:14/16	17:07	18:12		20:21	21:27	22:20
11	09:00 10:41-11:43/62	08:05	06:52		06:26	05:10	04:23
	16:01 12:00-12:14/14	17:10	18:15		20:23	21:29	22:21
12	08:59 10:41-11:43/62	08:03	06:50		06:23	05:08	04:23
	16:03 12:02-12:11/9	17:12	18:17		20:25	21:31	22:22
13	08:58 10:42-11:43/61	08:00	06:47		06:21	05:06	04:22
	16:05	17:14	18:19		20:28	21:33	22:23
14	08:57 10:42-11:43/61	07:58	06:44		06:18	05:04	04:22
	16:07	17:17	18:21		20:30	21:35	22:24
15	08:56 10:43-11:43/60	07:55	06:41	17:46-17:54/8	06:15	05:02	04:21
	16:09	17:19	18:24		20:32	21:37	22:25
16	08:54 10:43-11:42/59	07:53	06:38	17:44-17:57/13	06:12	05:00	04:21
	16:10	17:22	18:26		20:34	21:40	22:25
17	08:53 10:43-11:42/59	07:50	06:36	17:42-17:59/17	06:10	04:58	04:21
	16:13	17:24	18:28		20:36	21:42	22:26
18	08:52 10:45-11:18/33	07:48	06:33	17:40-18:01/21	06:07	04:56	04:21
	16:15 11:19-11:42/23	17:26	18:30		20:39	21:44	22:26
19	08:50 10:45-11:17/32	07:45	06:30	17:39-18:03/24	06:04	04:54	04:21
	16:17 11:21-11:41/20	17:29	18:32		20:41	21:46	22:27
20	08:49 10:46-11:17/31	07:43	06:27	17:38-18:05/27	06:02	04:52	04:21
	16:19 11:22-11:39/17	17:31	18:35		20:43	21:48	22:27
21	08:47 10:47-11:17/30	07:40	06:25	17:37-18:06/29	05:59	04:50	04:21
	16:21 11:24-11:37/13	17:33	18:37		20:45	21:49	22:27
22	08:46 10:48-11:16/28	07:38	06:22	17:37-18:07/30	05:57	04:48	04:21
	16:23 11:28-11:34/6	17:36	18:39		20:47	21:51	22:28
23	08:44 10:49-11:16/27	07:35	06:19	17:37-18:07/30	05:54	04:46	04:21
	16:25	17:38	18:41		20:50	21:53	22:28
24	08:42 10:50-11:15/25	07:33	06:16	17:36-18:07/31	05:51	04:45	04:22
	16:28	17:40	18:43		20:52	21:55	22:28
25	08:40 10:51-11:14/23	07:30	06:13	17:36-18:06/30	05:49	04:43	04:22
	16:30	17:43	18:46		20:54	21:57	22:28
26	08:39 10:53-11:13/20	07:27	06:11	17:36-18:05/29	05:46	04:41	04:23
	16:32	17:45	18:48		20:56	21:59	22:28
27	08:37 10:55-11:12/17	07:25	06:08	17:38-18:05/27	05:44	04:40	04:23
	16:34	17:47	18:50		20:59	22:00	22:27
28	08:35 10:58-11:09/11	07:22	06:05	17:39-18:03/24	05:41	04:38	04:24
	16:37	17:50	18:52		21:01	22:02	22:27
29	08:33		07:02	18:40-19:01/21	05:39	04:37	04:24
	16:39		19:54		21:03	22:04	22:27
30	08:31		06:59	18:43-18:59/16	05:36	04:35	04:25
	16:41		19:57		21:05	22:06	22:27
31	08:29		06:57			04:34	
	16:44		19:59			22:07	
Potential sun hours	227	262	365		429	515	539
Sum of minutes with flicker	1737	0	377		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 11 - Z13

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:24	07:34	08:39 10:23-11:26/63
	22:26	21:41	20:23	18:59	16:38	15:43 11:43-11:56/13
2	04:27	05:17	06:23	07:27	07:36	08:41 10:23-11:26/63
	22:26	21:39	20:21	18:57	16:36	15:42 11:42-11:57/15
3	04:28	05:19	06:25	07:29	07:38	08:43 10:24-11:27/63
	22:25	21:37	20:18	18:54	16:33	15:41 11:41-11:59/18
4	04:29	05:21	06:27	07:31	07:40	08:44 10:24-11:27/63
	22:24	21:35	20:15	18:51	16:31	15:40 11:41-12:00/19
5	04:30	05:23	06:29	07:33	07:43	08:46 10:25-11:28/63
	22:23	21:32	20:12	18:48	16:29	15:39 11:40-12:01/21
6	04:31	05:25	06:31	07:35	07:45	08:48 10:24-11:28/64 12:13-12:21/8
	22:23	21:30	20:10	18:46	16:26	15:39 11:39-12:01/22
7	04:32	05:28	06:34	07:37	07:47	08:49 10:25-11:29/64 12:12-12:23/11
	22:22	21:28	20:07	18:43	16:24	15:38 11:39-12:02/23
8	04:33	05:30	06:36	07:40	07:50	08:51 10:26-11:29/63 12:12-12:25/13
	22:21	21:25	20:04	18:40	16:22	15:37 11:40-12:04/24
9	04:35	05:32	06:38	07:42	07:52	08:52 10:27-11:30/63 12:12-12:26/14
	22:20	21:23	20:01	18:37	16:20	15:37 11:40-12:05/25
10	04:36	05:34	06:40	07:44	07:54	08:53 10:27-11:30/63 12:11-12:27/16
	22:19	21:21	19:58	18:35	16:18	15:36 11:40-12:05/25
11	04:37	05:36	06:42	07:46	07:57	08:55 10:28-11:31/63 12:11-12:28/17
	22:18	21:18	19:56	18:32	16:16	15:36 11:40-12:06/26
12	04:39	05:38	06:44	07:48	07:59	08:56 10:28-11:31/63 12:11-12:29/18
	22:16	21:16	19:53	18:29	16:14	15:35 11:40-12:06/26
13	04:40	05:40	06:46 18:36-18:49/13	07:51	08:01	08:57 10:28-11:31/63 12:11-12:29/18
	22:15	21:13	19:50	18:26	16:12	15:35 11:40-12:07/27
14	04:42	05:42	06:48 18:31-18:51/20	07:53	08:03 10:30-10:41/11	08:58 10:29-11:33/64 12:11-12:31/20
	22:14	21:11	19:47	18:24	16:10	15:35 11:41-12:08/27
15	04:43	05:45	06:50 18:29-18:52/23	07:55	08:06 10:27-10:44/17	09:00 10:30-11:33/63 12:11-12:32/21
	22:12	21:08	19:44	18:21	16:08	15:35 11:41-12:09/28
16	04:45	05:47	06:53 18:27-18:53/26	07:57	08:08 10:26-10:46/20	09:01 10:30-11:33/63 12:12-12:32/20
	22:11	21:06	19:42	18:18	16:06	15:35 11:41-12:09/28
17	04:47	05:49	06:55 18:25-18:53/28	07:59	08:10 10:25-10:48/23	09:01 10:31-11:34/63 12:12-12:33/21
	22:09	21:03	19:39	18:16	16:04	15:35 11:42-12:10/28
18	04:48	05:51	06:57 18:24-18:53/29	08:02	08:12 10:24-10:49/25	09:02 10:31-11:34/63 12:12-12:34/22
	22:08	21:01	19:36	18:13	16:02	15:35 11:42-12:10/28
19	04:50	05:53	06:59 18:23-18:53/30	08:04	08:15 10:24-10:51/27	09:03 10:31-11:34/63 12:12-12:33/21
	22:06	20:58	19:33	18:10	16:00	15:35 11:42-12:10/28
20	04:52	05:55	07:01 18:22-18:53/31	08:06	08:17 10:23-10:51/28	09:04 10:32-11:35/63 12:13-12:34/21
	22:05	20:56	19:30	18:08	15:59 11:03-11:09/6	15:36 11:43-12:11/28
21	04:54	05:57	07:03 18:23-18:52/29	08:08	08:19 10:23-10:53/30	09:05 10:33-11:36/63 12:13-12:35/22
	22:03	20:53	19:27	18:05	15:57 11:00-11:13/13	15:36 11:43-12:12/29
22	04:56	06:00	07:05 18:22-18:52/30	08:11	08:21 10:22-10:53/31	09:05 10:33-11:36/63 12:13-12:35/22
	22:01	20:50	19:25	18:03	15:55 10:58-11:15/17	15:36 11:43-12:12/29
23	04:57	06:02	07:07 18:22-18:51/29	08:13	08:23 10:21-10:53/32	09:06 10:34-11:37/63 12:15-12:36/21
	21:59	20:48	19:22	18:00	15:54 10:57-11:17/20	15:37 11:45-12:13/28
24	04:59	06:04	07:09 18:22-18:48/26	08:15	08:25 10:22-10:55/33	09:06 10:34-11:37/63 12:15-12:36/21
	21:57	20:45	19:19	17:58	15:52 10:56-11:19/23	15:38 11:45-12:13/28
25	05:01	06:06	07:12 18:22-18:45/23	07:17	08:27 10:22-11:20/58	09:06 10:34-11:37/63 12:15-12:37/22
	21:56	20:42	19:16	16:55	15:51	15:38 11:45-12:13/28
26	05:03	06:08	07:14 18:23-18:42/19	07:20	08:29 10:22-11:21/59	09:07 10:34-11:38/64 12:16-12:37/21
	21:54	20:40	19:13	16:53	15:49	15:39 11:46-12:14/28
27	05:05	06:10	07:16 18:24-18:39/15	07:22	08:31 10:22-11:22/60	09:07 10:35-11:38/63 12:16-12:37/21
	21:52	20:37	19:11	16:50	15:48	15:40 11:46-12:14/28
28	05:07	06:12	07:18 18:26-18:36/10	07:24	08:33 10:22-11:23/61	09:07 10:35-11:39/64 12:17-12:37/20
	21:50	20:34	19:08	16:48	15:47	15:41 11:47-12:14/27
29	05:09	06:14	07:20	07:27	08:35 10:22-11:23/61	09:07 10:36-11:39/63 12:18-12:38/20
	21:48	20:32	19:05	16:45	15:46	15:42 11:48-12:15/27
30	05:11	06:17	07:22	07:29	08:37 10:22-11:24/62	09:07 10:36-11:39/63 12:18-12:37/19
	21:46	20:29	19:02	16:43	15:44 11:43-11:52/9	15:43 11:48-12:14/26
31	05:13	06:19		07:31		09:07 10:36-11:40/64 12:19-12:38/19
	21:43	20:26		16:40		15:44 11:49-12:15/26
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	381	0	726	3231

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 12 - Z16

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:06 11:16-11:32/16	08:27 09:18-09:46/28 15:15-15:32/17	07:19 08:33-08:40/7	06:54	05:34 18:45-19:46/61	04:33 19:11-19:21/10
	15:45	16:46 09:01-09:13/12 09:49-10:12/23	17:52	20:01	21:07	22:09
2	09:06 11:18-11:33/15	08:25 09:18-09:46/28 15:17-15:31/14	07:17	06:51	05:31 18:45-19:45/60	04:31
	15:47	16:48 08:59-09:15/16 09:49-10:11/22	17:54	20:03	21:10	22:10
3	09:06 11:19-11:32/13	08:23 09:18-09:46/28 15:19-15:30/11	07:14	06:48	05:29 18:45-19:45/60	04:30
	15:48	16:51 08:58-09:17/19 09:51-10:10/19	17:56	20:05	21:12	22:12
4	09:05 11:20-11:32/12	08:21 09:18-09:46/28 09:52-10:08/16	07:11	06:45	05:26 18:45-19:45/60	04:29
	15:49	16:53 08:56-09:17/21	17:59	20:08	21:14	22:13
5	09:05 11:21-11:31/10	08:19 08:53-09:46/53	07:09	06:43	05:24 18:45-19:45/60	04:28
	15:51	16:55 09:55-10:06/11	18:01	20:10	21:16	22:14
6	09:04 11:24-11:30/6	08:16 08:50-09:46/56	07:06	06:40	05:22 18:44-19:43/59	04:27
	15:52	16:58	18:03	20:12	21:18	22:16
7	09:03 09:50-09:56/6	08:14 08:48-09:46/58	07:03	06:37	05:19 18:45-19:43/58	04:26
	15:54	17:00	18:05	20:14	21:20	22:17
8	09:03 09:47-09:57/10	08:12 08:47-09:46/59	07:00	06:34	05:17 18:45-19:42/57	04:25
	15:56	17:02	18:08	20:16	21:23	22:18
9	09:02 09:47-09:59/12	08:10 09:21-09:44/23	06:58	06:31	05:15 18:45-19:41/56	04:25
	15:57	17:05 08:46-09:20/34	18:10	20:19	21:25	22:19
10	09:01 09:46-10:01/15	08:07 09:22-09:44/22	06:55	06:29	05:12 18:46-19:40/54	04:24
	15:59	17:07 08:46-09:21/35	18:12	20:21	21:27	22:20
11	09:00 15:15-15:18/3	08:05 09:23-09:42/19	06:52	06:26 19:21-19:31/10	05:10 18:46-19:40/54	04:23
	16:01 09:46-10:03/17	17:10 08:45-09:21/36	18:15	20:23	21:29	22:21
12	08:59 15:13-15:19/6	08:03 08:35-08:42/7 08:44-09:21/37	06:49	06:23 19:11-19:36/25	05:08 18:47-19:39/52	04:23
	16:03 09:45-10:04/19	17:12 09:24-09:40/16	18:17	20:25	21:31	22:22
13	08:58 15:12-15:22/10	08:00 08:31-09:20/49	06:47	06:21 19:06-19:38/32	05:06 18:47-19:39/52	04:22
	16:05 09:45-10:05/20	17:14 09:27-09:38/11	18:19	20:27	21:33	22:23
14	08:57 15:11-15:24/13	07:58 08:29-09:19/50	06:44	06:18 19:02-19:40/38	05:04 18:48-19:38/50	04:22
	16:06 09:44-10:06/22	17:17	18:21	20:30	21:35	22:24
15	08:56 15:11-15:26/15	07:55 08:28-09:19/51	06:41	06:15 19:00-19:42/42	05:02 18:49-19:38/49	04:21
	16:08 09:44-10:07/23	17:19	18:23	20:32	21:37	22:25
16	08:54 15:11-15:28/17	07:53 08:27-09:17/50	06:38	06:12 18:58-19:43/45	05:00 18:50-19:38/48	04:21
	16:10 09:44-10:08/24	17:21	18:26	20:34	21:39	22:25
17	08:53 15:10-15:30/20	07:50 08:25-09:16/51	06:36	06:10 18:56-19:44/48	04:58 18:50-19:37/47	04:21
	16:12 09:43-10:08/25	17:24	18:28	20:36	21:42	22:26
18	08:52 15:09-15:30/21	07:48 08:26-09:14/48	06:33	06:07 18:54-19:44/50	04:56 18:51-19:36/45	04:21
	16:15 09:44-10:10/26	17:26	18:30	20:39	21:44	22:26
19	08:50 15:10-15:32/22	07:45 08:25-09:09/44	06:30	06:04 18:54-19:46/52	04:54 18:52-19:36/44	04:21
	16:17 09:44-10:10/26	17:29	18:32	20:41	21:46	22:27
20	08:49 15:10-15:32/22	07:43 08:24-09:08/44	06:27	06:02 18:52-19:46/54	04:52 18:53-19:35/42	04:21
	16:19 09:43-10:11/28	17:31	18:35	20:43	21:47	22:27
21	08:47 15:10-15:33/23	07:40 08:25-09:07/42	06:24	05:59 18:50-19:46/56	04:50 18:53-19:34/41	04:21
	16:21 09:43-10:11/28	17:33	18:37	20:45	21:49	22:27
22	08:45 09:25-09:34/9 09:43-10:12/29	07:38 08:24-09:05/41	06:22	05:56 18:50-19:46/56	04:48 18:55-19:34/39	04:21
	16:23 15:10-15:33/23	17:36	18:39	20:47	21:51	22:28
23	08:44 09:23-09:36/13 09:44-10:12/28	07:35 08:24-08:49/25	06:19	05:54 18:49-19:47/58	04:46 18:55-19:32/37	04:21
	16:25 15:10-15:34/24	17:38 08:51-09:02/11	18:41	20:50	21:53	22:28
24	08:42 09:22-09:38/16 09:44-10:13/29	07:33 08:25-08:50/25	06:16	05:51 18:48-19:47/59	04:45 18:57-19:32/35	04:22
	16:27 15:10-15:34/24	17:40	18:43	20:52	21:55	22:28
25	08:40 09:21-09:40/19 09:44-10:13/29	07:30 08:26-08:48/22	06:13	05:49 18:48-19:47/59	04:43 18:59-19:31/32	04:22
	16:30 15:10-15:35/25	17:43	18:46	20:54	21:57	22:28
26	08:39 09:20-09:41/21 09:45-10:13/28	07:27 08:26-08:47/21	06:10	05:46 18:46-19:47/61	04:41 18:59-19:30/31	04:22
	16:32 15:11-15:35/24	17:45	18:48	20:56	21:59	22:28
27	08:37 09:20-09:42/22 09:45-10:14/29	07:25 08:27-08:45/18	06:08	05:44 18:46-19:47/61	04:40 19:01-19:29/28	04:23
	16:34 15:11-15:35/24	17:47	18:50	20:58	22:00	22:27
28	08:35 09:19-09:44/25 09:46-10:14/28	07:22 08:30-08:44/14	06:05	05:41 18:45-19:46/61	04:38 19:03-19:28/25	04:24
	16:37 15:11-15:34/23	17:49	18:52	21:01	22:02	22:27
29	08:33 09:18-09:44/26 09:46-10:13/27		07:02	05:39 18:45-19:46/61	04:37 19:04-19:26/22	04:24
	16:39 15:12-15:34/22		19:54	21:03	22:04	22:27
30	08:31 09:18-09:45/27 09:46-10:13/27		06:59	05:36 18:45-19:46/61	04:35 19:06-19:25/19	04:25
	16:41 15:13-15:34/21		19:57	21:05	22:05	22:26
31	08:29 09:18-09:45/27 15:14-15:34/20		06:56		04:34 19:08-19:23/15	
	16:44 09:03-09:10/7 09:47-10:13/26		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1267	1385	7	989	1392	10

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 12 - Z16

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	July	August	September	October	November	December
1	04:26 22:26	05:15 18:57-19:50/53 21:41	06:21 19:21-19:30/9 20:23	07:24 18:59	07:34 08:15-09:14/59 16:38	08:39 14:56-14:59/3 15:43 09:28-09:45/17
2	04:27 22:25	05:17 18:56-19:50/54 21:39	06:23 20:21	07:27 18:57	07:36 08:16-09:14/58 16:36	08:41 09:29-09:44/15 15:42
3	04:28 22:25	05:19 18:56-19:51/55 21:37	06:25 20:18	07:29 18:54	07:38 08:17-09:15/58 16:33	08:42 09:31-09:44/13 15:41
4	04:29 22:24	05:21 18:56-19:52/56 21:35	06:27 20:15	07:31 18:51	07:40 08:18-09:15/57 16:31	08:44 09:32-09:43/11 15:40
5	04:30 22:23	05:23 18:55-19:52/57 21:32	06:29 20:12	07:33 18:48	07:43 08:20-09:16/56 16:29	08:46 09:35-09:41/6 15:39
6	04:31 22:23	05:25 18:55-19:53/58 21:30	06:31 20:09	07:35 18:45	07:45 08:23-09:16/53 16:26 09:24-09:36/12	08:48 11:09-11:15/6 15:39
7	04:32 22:22	05:27 18:55-19:54/59 21:28	06:34 20:07	07:37 18:43	07:47 08:27-09:17/50 09:23-09:39/16 16:24 14:53-14:57/4	08:49 11:08-11:18/10 15:38
8	04:33 22:21	05:30 18:54-19:54/60 21:25	06:36 20:04	07:40 18:40	07:50 08:48-09:16/28 14:49-15:00/11 16:22 08:29-08:47/18 09:20-09:40/20	08:51 11:08-11:20/12 15:37
9	04:35 22:20	05:32 18:54-19:54/60 21:23	06:38 20:01	07:42 18:37	07:52 08:48-09:17/29 14:47-15:02/15 16:20 08:29-08:45/16 09:20-09:42/22	08:52 11:08-11:21/13 15:37
10	04:36 22:19	05:34 18:54-19:55/61 21:21	06:40 19:58	07:44 18:34	07:54 08:49-09:17/28 14:47-15:04/17 16:18 08:32-08:44/12 09:19-09:43/24	08:53 11:07-11:22/15 15:36
11	04:37 19:20-19:27/7 22:17	05:36 18:54-19:55/61 21:18	06:42 19:56	07:46 18:32	07:57 08:49-09:16/27 14:45-15:05/20 16:16 08:35-08:41/6 09:18-09:43/25	08:55 11:07-11:23/16 15:36
12	04:39 19:17-19:31/14 22:16	05:38 18:54-19:55/61 21:16	06:44 19:53	07:48 18:29	07:59 08:50-09:16/26 09:18-09:45/27 16:14 14:45-15:06/21	08:56 11:07-11:24/17 15:35
13	04:40 19:15-19:33/18 22:15	05:40 18:54-19:55/61 21:13	06:46 19:50	07:50 09:04-09:15/11 18:26	08:01 08:50-09:15/25 09:17-09:45/28 16:12 14:44-15:06/22	08:57 11:07-11:24/17 15:35
14	04:42 19:13-19:34/21 22:14	05:42 18:53-19:54/61 21:11	06:48 19:47	07:53 09:01-09:17/16 18:24	08:03 08:51-09:15/24 09:18-09:46/28 16:10 14:44-15:07/23	08:58 11:08-11:26/18 15:35
15	04:43 19:12-19:36/24 22:12	05:44 18:53-19:54/61 21:08	06:50 19:44	07:55 09:00-09:19/19 18:21	08:06 08:51-09:14/23 09:17-09:45/28 16:08 14:43-15:07/24	09:00 11:08-11:26/18 15:35
16	04:45 19:10-19:37/27 22:11	05:47 18:53-19:53/60 21:06	06:53 19:41	07:57 08:58-09:19/21 18:18	08:08 08:53-09:14/21 09:17-09:46/29 16:06 14:44-15:08/24	09:01 11:08-11:27/19 15:35
17	04:47 19:10-19:39/29 22:09	05:49 18:53-19:53/60 21:03	06:55 19:39	07:59 08:57-09:20/23 18:16	08:10 08:55-09:14/19 09:18-09:47/29 16:04 14:43-15:08/25	09:01 11:08-11:28/20 15:35
18	04:48 19:08-19:40/32 22:08	05:51 18:53-19:53/60 21:01	06:57 19:36	08:02 08:56-09:21/25 18:13 09:25-09:31/6	08:12 08:56-09:12/16 09:18-09:47/29 16:02 14:44-15:08/24	09:02 11:09-11:28/19 15:35
19	04:50 19:07-19:41/34 22:06	05:53 18:54-19:52/58 20:58	06:59 19:33	08:04 08:55-09:34/39 18:10	08:14 08:58-09:11/13 09:19-09:47/28 16:00 14:44-15:08/24	09:03 11:08-11:28/20 15:35
20	04:52 19:07-19:43/36 22:04	05:55 18:54-19:52/58 20:55	07:01 19:30	08:06 08:56-09:37/41 18:08	08:17 09:00-09:09/9 09:18-09:47/29 15:59 14:45-15:09/24	09:04 11:09-11:29/20 15:35
21	04:54 19:05-19:43/38 22:03	05:57 18:54-19:51/57 20:53	07:03 19:27	08:08 08:55-09:38/43 18:05	08:19 14:45-15:08/23 15:57 09:19-09:47/28	09:04 11:10-11:30/20 15:36
22	04:55 19:05-19:44/39 22:01	05:59 18:55-19:50/55 20:50	07:05 19:25	08:11 08:55-09:39/44 18:03	08:21 14:46-15:09/23 15:55 09:20-09:47/27	09:05 11:10-11:30/20 15:36
23	04:57 19:03-19:44/41 21:59	06:02 18:56-19:49/53 20:48	07:07 19:22	08:13 08:55-09:41/46 18:00	08:23 14:46-15:08/22 15:54 09:20-09:47/27	09:06 11:11-11:31/20 15:37
24	04:59 19:03-19:46/43 21:57	06:04 18:56-19:48/52 20:45	07:09 19:19	08:15 08:55-09:44/49 17:58	08:25 14:48-15:08/20 15:52 09:21-09:47/26	09:06 11:11-11:31/20 15:37
25	05:01 19:02-19:47/45 21:56	06:06 18:57-19:47/50 20:42	07:12 19:16	07:17 07:56-08:46/50 16:55	08:27 14:48-15:08/20 15:51 09:21-09:47/26	09:06 11:11-11:31/20 15:38
26	05:03 19:02-19:47/45 21:54	06:08 18:58-19:46/48 20:40	07:14 19:13	07:20 07:56-08:47/51 16:52	08:29 14:49-15:07/18 15:49 09:23-09:47/24	09:07 11:12-11:31/19 15:39
27	05:05 19:00-19:47/47 21:52	06:10 19:00-19:44/44 20:37	07:16 19:11	07:22 07:58-08:48/50 16:50	08:31 14:50-15:06/16 15:48 09:23-09:46/23	09:07 11:13-11:32/19 15:40
28	05:07 19:00-19:48/48 21:50	06:12 19:01-19:42/41 20:34	07:18 19:08	07:24 07:59-08:49/50 16:48	08:33 14:51-15:04/13 15:47 09:24-09:46/22	09:07 11:13-11:32/19 15:41
29	05:09 18:59-19:49/50 21:48	06:14 19:03-19:40/37 20:31	07:20 19:05	07:27 08:01-08:13/12 08:14-08:50/36 16:45 08:56-09:08/12	08:35 14:52-15:02/10 15:45 09:25-09:45/20	09:07 11:14-11:33/19 15:42
30	05:11 18:59-19:50/51 21:46	06:17 19:06-19:38/32 20:29	07:22 19:02	07:29 08:05-08:09/4 08:13-08:49/36 16:43 08:53-09:10/17	08:37 14:54-15:00/6 15:44 09:26-09:45/19	09:07 11:14-11:32/18 15:43
31	05:13 18:58-19:50/52 21:43	06:19 19:10-19:35/25 20:26		07:31 08:52-09:12/20 16:40 08:14-08:50/36		09:07 11:15-11:32/17 15:44
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	741	1668	9	757	1796	516

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 13 - Z17

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

	January	February	March	April	May	June
1	09:06 12:58-13:08/10 09:51-11:01/70 11:26-11:42/16	08:27 09:08-09:48/40 09:59-10:10/11	07:19 16:17-16:44/27	06:54 07:50-08:27/37	05:34	04:33
	15:45 11:43-11:52/9 11:53-11:56/3	16:46 10:41-11:12/31 15:15-15:43/28	17:52 08:16-08:55/39	20:01	21:07	22:09
2	09:06 13:00-13:08/8 09:50-11:03/73	08:25 09:07-09:47/40 10:02-10:06/4	07:17 07:57-08:10/13 08:16-08:55/39	06:51 07:50-08:23/33	05:31	04:31
	15:47 11:45-11:52/7 11:28-11:42/14	16:48 10:41-11:11/30 15:15-15:43/28	17:54 16:18-16:43/25	20:03	21:10	22:10
3	09:06 13:02-13:07/5 09:49-11:03/74	08:23 09:08-09:46/38 15:16-15:43/27	07:14 07:53-08:12/19 08:15-08:54/39	06:48 07:50-08:12/22	05:29	04:30
	15:48 11:47-11:50/3 11:29-11:42/13	16:51 10:43-11:10/27	17:56 16:19-16:41/22	20:05	21:12	22:12
4	09:05 09:48-11:04/76	08:21 09:08-09:46/38 15:16-15:43/27	07:11 07:51-08:14/23 08:15-08:54/39	06:45 07:51-08:10/19	05:26	04:29
	15:49 11:30-11:41/11	16:53 10:44-11:08/24	17:59 16:20-16:39/19	20:08	21:14	22:13
5	09:05 09:49-11:04/75	08:19 09:08-09:44/36 15:17-15:43/26	07:09 07:50-08:54/64	06:43 07:54-08:08/14	05:24	04:28
	15:51 11:32-11:41/9	16:55 10:47-11:06/19	18:01 16:23-16:37/14	20:10	21:16	22:14
6	09:04 09:48-11:06/78	08:16 09:09-09:30/21 15:17-15:42/25	07:06 07:48-08:54/66	06:40 07:57-08:04/7	05:22	04:27
	15:52 11:35-11:39/4	16:58 10:50-11:04/14 09:31-09:43/12	18:03 16:29-16:31/2	20:12	21:18	22:16
7	09:03 09:48-11:07/79	08:14 09:09-09:29/20 09:33-09:39/6	07:03 07:38-08:53/75	06:37	05:19	04:26
	15:54	17:00 15:19-15:41/22	18:05	20:14	21:20	22:17
8	09:03 09:47-11:07/80	08:12 09:11-09:29/18	07:01 07:34-08:52/78	06:34	05:17	04:25
	15:56	17:02 15:21-15:41/20	18:08	20:16	21:23	22:18
9	09:02 09:47-11:08/81	08:10 09:11-09:27/16	06:58 07:31-08:50/79	06:31	05:15	04:25
	15:57	17:05 15:22-15:39/17	18:10	20:19	21:25	22:19
10	09:01 09:47-11:08/81	08:07 09:14-09:26/12	06:55 07:30-08:50/80	06:29	05:12	04:24
	15:59	17:07 15:24-15:36/12	18:12	20:21	21:27	22:20
11	09:00 09:47-11:09/82	08:05 09:16-09:23/7	06:52 07:29-08:48/79	06:26	05:10	04:23
	16:01	17:10 15:29-15:32/3	18:15	20:23	21:29	22:21
12	08:59 09:47-11:10/83	08:03	06:49 07:27-08:46/79	06:23	05:08	04:23
	16:03	17:12	18:17	20:25	21:31	22:22
13	08:58 09:47-11:11/84	08:00	06:47 07:26-08:18/52	06:21	05:06	04:22
	16:04	17:14	18:19 08:20-08:44/24	20:28	21:33	22:23
14	08:57 09:47-11:11/84	07:58 16:25-16:38/13	06:44 07:18-08:18/60	06:18	05:04	04:22
	16:06	17:17	18:21 08:22-08:41/19	20:30	21:35	22:24
15	08:56 09:47-11:12/85	07:55 16:23-16:41/18	06:41 07:16-08:17/61	06:15	05:02	04:21
	16:08	17:19	18:23 08:25-08:37/12	20:32	21:37	22:25
16	08:54 09:47-11:12/85	07:53 16:21-16:42/21	06:38 07:13-08:17/64	06:12	05:00	04:21
	16:10	17:21	18:26	20:34	21:40	22:25
17	08:53 09:47-11:12/85	07:50 16:19-16:43/24	06:36 07:11-08:16/65	06:10	04:58	04:21
	16:12 09:30-09:36/6	17:24	18:28	20:36	21:42	22:26
18	08:52 09:48-11:13/85 09:29-09:39/10	07:48 16:19-16:45/26	06:33 07:10-08:15/65	06:07	04:56	04:21
	16:14 15:21-15:31/10	17:26	18:30	20:39	21:44	22:26
19	08:50 10:33-11:14/41 15:19-15:33/14	07:45 16:18-16:46/28	06:30 07:02-08:13/71	06:04	04:54	04:21
	16:17 09:48-10:32/44 09:27-09:40/13	17:28 08:31-08:42/11	18:32	20:41	21:46	22:27
20	08:49 10:33-11:14/41 15:18-15:35/17	07:43 16:17-16:46/29	06:27 06:58-08:11/73	06:02	04:52	04:21
	16:19 09:48-10:30/42 09:25-09:41/16	17:31 08:27-08:45/18	18:35	20:43	21:48	22:27
21	08:47 10:33-11:14/41 15:17-15:36/19	07:40 16:17-16:47/30	06:24 06:56-08:10/74	05:59	04:50	04:21
	16:21 09:48-10:29/41 09:24-09:43/19	17:33 08:25-08:48/23	18:37	20:45	21:49	22:27
22	08:46 10:34-11:14/40 15:16-15:37/21	07:38 16:16-16:47/31	06:22 06:55-08:08/73	05:56	04:48	04:21
	16:23 09:48-10:28/40 09:24-09:44/20	17:36 08:23-08:50/27	18:39	20:47	21:51	22:28
23	08:44 10:34-11:14/40 15:16-15:38/22	07:35 16:15-16:47/32	06:19 06:53-07:49/56	05:54	04:46	04:21
	16:25 09:49-10:28/39 09:23-09:44/21	17:38 08:21-08:51/30	18:41 07:51-08:04/13	20:50	21:53	22:28
24	08:42 09:17-09:20/3 09:49-10:28/39 09:23-09:45/22	07:33 16:15-16:46/31	06:16 06:52-07:47/55	05:51	04:45	04:21
	16:27 10:34-11:14/40 15:15-15:39/24	17:40 08:21-08:53/32	18:43	20:52	21:55	22:28
25	08:40 09:15-09:46/31 09:50-10:27/37	07:30 16:16-16:47/31	06:13 06:50-07:44/54	05:49	04:43	04:22
	16:30 10:35-11:15/40 15:15-15:40/25	17:43 08:19-08:53/34	18:46	20:54	21:57	22:28
26	08:39 09:13-09:47/34 09:51-10:26/35	07:27 16:16-16:46/30	06:10 06:50-07:36/46	05:46	04:41	04:22
	16:32 10:36-11:15/39 15:15-15:41/26	17:45 08:18-08:54/36	18:48	20:56	21:59	22:28
27	08:37 09:11-09:47/36 09:51-10:25/34	07:25 16:16-16:46/30	06:08 06:50-07:36/46	05:44	04:40	04:23
	16:34 10:36-11:15/39 15:15-15:42/27	17:47 08:17-08:54/37	18:50	20:59	22:01	22:28
28	08:35 09:09-09:48/39 09:53-10:24/31	07:22 16:16-16:45/29	06:05 06:49-07:34/45	05:41	04:38	04:23
	16:37 10:37-11:15/38 15:14-15:42/28	17:49 08:17-08:55/38	18:52	21:01	22:02	22:27
29	08:33 09:08-09:47/39 09:53-10:14/21 10:15-10:20/5		07:02 07:49-08:33/44	05:39	04:37	04:24
	16:39 10:37-11:13/36 15:14-15:42/28		19:54	21:03	22:04	22:27
30	08:31 09:08-09:47/39 09:54-10:13/19		06:59 07:49-08:31/42	05:36	04:35	04:25
	16:41 10:38-11:13/35 15:15-15:43/28		19:57	21:05	22:06	22:27
31	08:29 09:08-09:48/40 09:56-10:12/16		06:56 07:49-08:30/41		04:34	
	16:43 10:39-11:13/34 15:15-15:43/28		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	3204	1388	2075	132	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG

WTG: 13 - Z17

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

Operational time

N	NE	E	SE	S	SW	W	NW	Sum
653	600	789	841	1 295	1 585	1 347	1 020	8 130

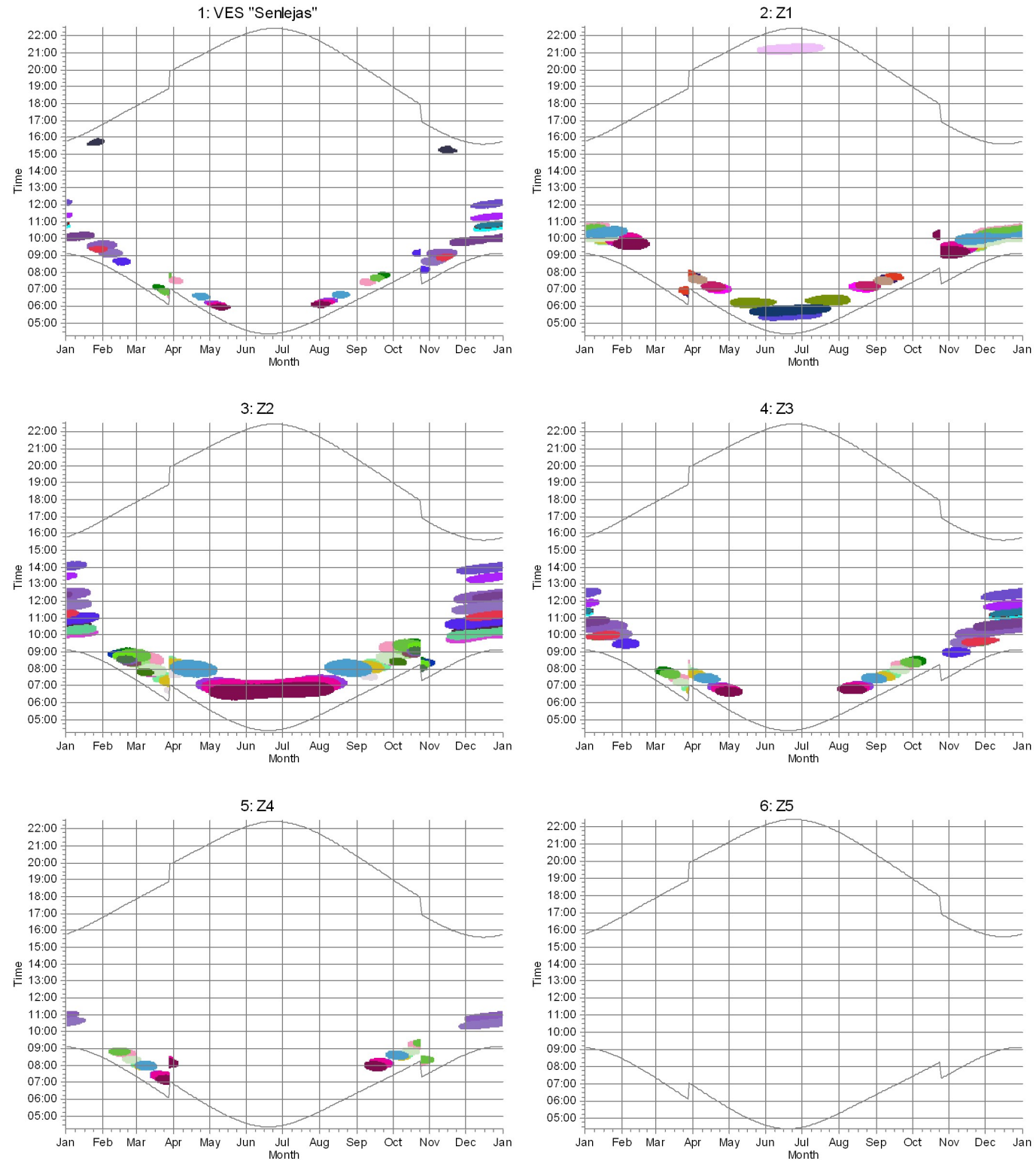
	July	August	September	October	November	December
1	04:26	05:15	06:21	07:24 08:06-08:58/52	07:34 08:43-08:56/13	08:39 09:29-10:52/83
	22:26	21:41	20:23	18:59 08:59-09:25/26	16:38 14:53-15:06/13	15:43
2	04:27	05:17	06:23	07:27 08:06-09:26/80	07:36 08:41-08:57/16	08:41 09:30-10:52/82
	22:26	21:39	20:21	18:57	16:36 14:51-15:09/18	15:42
3	04:28	05:19	06:25	07:29 08:07-09:27/80	07:38 08:40-08:59/19	08:43 09:31-10:52/81
	22:25	21:37	20:18	18:54	16:33 14:50-15:10/20	15:41
4	04:29	05:21	06:27	07:31 08:09-09:28/79	07:40 08:39-08:59/20 14:48-15:11/23	08:44 09:32-10:52/80
	22:24	21:35	20:15	18:51	16:31 10:24-10:28/4 09:02-09:10/8	15:40
5	04:30	05:23	06:29	07:33 08:10-09:29/79	07:43 08:39-09:13/34 14:48-15:12/24	08:46 09:33-10:52/79
	22:23	21:32	20:12	18:48	16:29 10:19-10:34/15	15:39
6	04:31	05:25	06:31 07:54-08:00/6	07:35 08:12-09:29/77	07:45 08:38-09:14/36 14:47-15:12/25	08:48 09:33-10:51/78
	22:23	21:30	20:09	18:45	16:26 10:16-10:36/20	15:39 11:20-11:24/4
7	04:32	05:27	06:34 07:49-08:03/14	07:37 08:23-09:29/66	07:47 08:38-09:16/38 14:47-15:13/26	08:49 09:35-10:52/77
	22:22	21:28	20:07	18:43	16:24 10:14-10:39/25	15:38 11:18-11:27/9
8	04:33	05:30	06:36 07:47-08:05/18	07:40 08:24-09:29/65	07:50 08:38-09:17/39 14:46-15:13/27	08:51 09:36-10:52/76
	22:21	21:25	20:04	18:40 17:00-17:10/10	16:22 10:12-10:40/28	15:37 11:18-11:29/11
9	04:34	05:32	06:38 07:45-08:07/22	07:42 08:25-09:29/64	07:52 08:38-09:17/39 09:32-09:37/5	08:52 12:51-12:56/5 09:38-10:52/74
	22:20	21:23	20:01	18:37 16:57-17:13/16	16:20 10:12-10:42/30 14:46-15:14/28	15:37 11:37-11:38/1 11:18-11:31/13
10	04:36	05:34	06:40 07:43-08:16/33	07:44 08:26-08:48/22 08:50-09:29/39	07:54 08:39-09:19/40 09:29-09:41/12	08:54 12:49-12:57/8 09:39-10:52/73
	22:19	21:21	19:58	18:34 16:54-17:15/21	16:18 10:11-10:43/32 14:46-15:15/29	15:36 11:34-11:41/7 11:17-11:31/14
11	04:37	05:36	06:42 07:42-08:19/37	07:46 08:28-08:45/17 08:49-09:28/39	07:57 08:39-09:18/39 09:27-09:43/16	08:55 12:49-12:59/10 09:41-10:53/72 11:17-11:33/16
	22:18	21:18	19:56	18:32 16:52-17:16/24	16:16 10:10-10:44/34 14:46-15:14/28	15:36 11:34-11:43/9 11:44-11:46/2
12	04:39	05:38	06:44 07:41-08:21/40	07:48 08:32-08:42/10 08:50-09:28/38	07:59 08:40-09:19/39 09:26-09:45/19	08:56 12:48-13:00/12 09:48-10:52/64
	22:16	21:16	19:53	18:29 16:51-17:17/26	16:14 10:10-10:45/35 14:46-15:15/29	15:35 11:17-11:49/32 09:42-09:47/5
13	04:40	05:40	06:46 07:40-08:22/42	07:50 16:50-17:18/28	08:01 08:40-09:19/39 09:25-09:45/20 09:46-09:52/6	08:57 12:48-13:01/13 09:49-10:52/63
	22:15	21:13	19:50	18:26 08:50-09:28/38	16:12 10:09-10:45/36 14:46-15:14/28	15:35 11:17-11:50/33 11:51-11:53/2
14	04:42	05:42	06:48 07:39-08:23/44	07:53 16:49-17:18/29	08:03 08:41-09:19/38 09:24-09:56/32	08:58 12:49-13:03/14 10:23-10:53/30
	22:14	21:11	19:47	18:24 08:49-09:27/38	16:10 10:09-10:46/37 14:47-15:15/28	15:35 11:17-11:56/39 09:50-10:22/32
15	04:43	05:44	06:50 07:39-08:24/45	07:55 16:48-17:19/31	08:06 08:44-09:20/36 09:24-09:58/34	09:00 12:49-13:03/14 10:23-10:53/30
	22:12	21:08	19:44	18:21 08:50-09:27/37	16:08 10:08-10:47/39 14:47-15:14/27	15:35 11:17-11:57/40 09:51-10:22/31
16	04:45	05:47	06:53 07:38-08:24/46	07:57 16:48-17:18/30	08:08 08:46-09:19/33 09:23-09:59/36	09:01 12:49-13:04/15 10:24-10:53/29
	22:11	21:06	19:41	18:18 08:50-09:25/35	16:06 10:08-10:48/40 14:48-15:14/26	15:35 11:18-11:59/41 09:51-10:22/31
17	04:47	05:49	06:55 07:38-08:24/46	07:59 16:47-17:18/31	08:10 08:49-09:20/31 09:24-10:01/37	09:02 12:49-13:05/16 10:25-10:54/29
	22:09	21:03	19:39	18:16 08:51-09:24/33	16:04 10:09-10:48/39 14:48-15:13/25	15:35 11:18-11:59/41 09:52-10:23/31
18	04:48	05:51	06:57 07:38-08:30/52	08:02 16:47-17:18/31	08:12 08:51-08:54/3 09:23-10:02/39 08:57-09:19/22	09:02 12:49-13:06/17 10:25-10:54/29
	22:08	21:01	19:36	18:13 08:52-09:23/31	16:02 10:08-10:48/40 14:49-15:13/24	15:35 11:18-12:00/42 09:53-10:23/30
19	04:50	05:53	06:59 07:38-08:33/55	08:04 16:47-17:18/31	08:15 10:09-10:49/40 14:50-15:12/22	09:03 12:49-13:05/16 10:25-10:54/29
	22:06	20:58	19:33	18:10 08:53-09:21/28	16:00 09:24-10:03/39 08:58-09:19/21	15:35 11:18-12:00/42 09:53-10:24/31
20	04:52	05:55	07:01 07:39-08:35/56	08:06 16:47-17:18/31	08:17 10:09-10:49/40 14:51-15:12/21	09:04 12:49-13:06/17 10:26-10:54/28
	22:05	20:55	19:30 08:38-08:50/12	18:08 08:55-09:20/25	15:59 09:23-10:03/40 08:59-09:19/20	15:35 11:19-12:01/42 09:53-10:24/31
21	04:54	05:57	07:03 07:40-08:53/73	08:08 16:47-17:17/30	08:19 10:09-10:50/41 14:52-15:11/19	09:05 12:50-13:07/17 10:27-10:55/28
	22:03	20:53	19:27	18:05 08:56-09:18/22	15:57 09:24-10:05/41 09:00-09:19/19	15:36 11:20-12:02/42 09:54-10:25/31
22	04:55	05:59	07:05 07:41-08:54/73	08:11 16:47-17:16/29	08:21 10:09-10:50/41 14:54-15:11/17	09:05 12:50-13:07/17 10:27-10:55/28
	22:01	20:50	19:25	18:03 08:59-09:16/17	15:55 09:24-10:06/42 09:01-09:18/17	15:36 11:19-12:02/43 09:54-10:25/31
23	04:57	06:02	07:07 07:42-08:56/74	08:13 16:48-17:16/28	08:23 09:24-10:50/86 09:03-09:16/13	09:06 12:51-13:08/17 10:28-10:56/28
	21:59	20:48	19:22	18:00 09:03-09:11/8	15:54 14:55-15:09/14	15:37 11:21-12:03/42 09:55-10:26/31
24	04:59	06:04	07:09 07:44-08:57/73	08:15 16:48-17:14/26	08:25 09:25-10:50/85 09:06-09:16/10	09:06 12:52-13:08/16 10:28-10:57/29
	21:57	20:45	19:19	17:57	15:52 14:58-15:08/10	15:37 11:21-12:03/42 09:55-10:26/31
25	05:01	06:06	07:12 07:52-08:57/65	07:17 15:50-16:13/23	08:27 09:25-10:50/85 09:08-09:14/6	09:06 12:52-13:08/16 10:28-10:57/29
	21:56	20:42	19:16	16:55	15:51 15:02-15:04/2	15:38 11:21-12:03/42 09:56-10:26/30
26	05:03	06:08	07:14 07:53-08:58/65	07:20 15:51-16:11/20	08:29 09:26-10:51/85	09:07 12:53-13:09/16 10:28-10:58/30
	21:54	20:40	19:13	16:52	15:49	15:39 11:22-12:03/41 09:56-10:27/31
27	05:05	06:10	07:16 07:54-08:58/64	07:22 15:53-16:10/17	08:31 09:26-10:51/85	09:07 12:53-13:09/16 10:29-10:58/29
	21:52	20:37	19:11	16:50	15:48	15:40 11:22-12:03/41 09:56-10:27/31
28	05:07	06:12	07:18 07:56-08:59/63	07:24 15:55-16:06/11	08:33 09:27-10:51/84	09:07 12:54-13:09/15 10:29-10:59/30
	21:50	20:34	19:08 09:09-09:17/8	16:48	15:47	15:41 11:23-12:03/40 09:57-10:28/31
29	05:09	06:14	07:20 07:58-08:59/61	07:27	08:35 09:27-10:51/84	09:07 12:55-13:10/15 10:30-11:00/30
	21:48	20:31	19:05 09:04-09:21/17	16:45	15:45	15:42 11:24-12:03/39 09:57-10:28/31
30	05:11	06:17	07:22 08:01-08:58/57	07:29	08:37 09:29-10:51/82	09:07 12:55-13:09/14 09:58-11:00/62
	21:46	20:29	19:02 09:01-09:23/22	16:43	15:44	15:43 11:25-12:03/38
31	05:13	06:19		07:31 08:45-08:53/8		09:07 12:57-13:09/12 10:30-11:01/31 09:57-10:29/32
	21:43	20:26		16:40 14:57-15:03/6		15:44 11:25-11:58/33 09:51-09:55/4
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	1283	1682	2951	3287

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

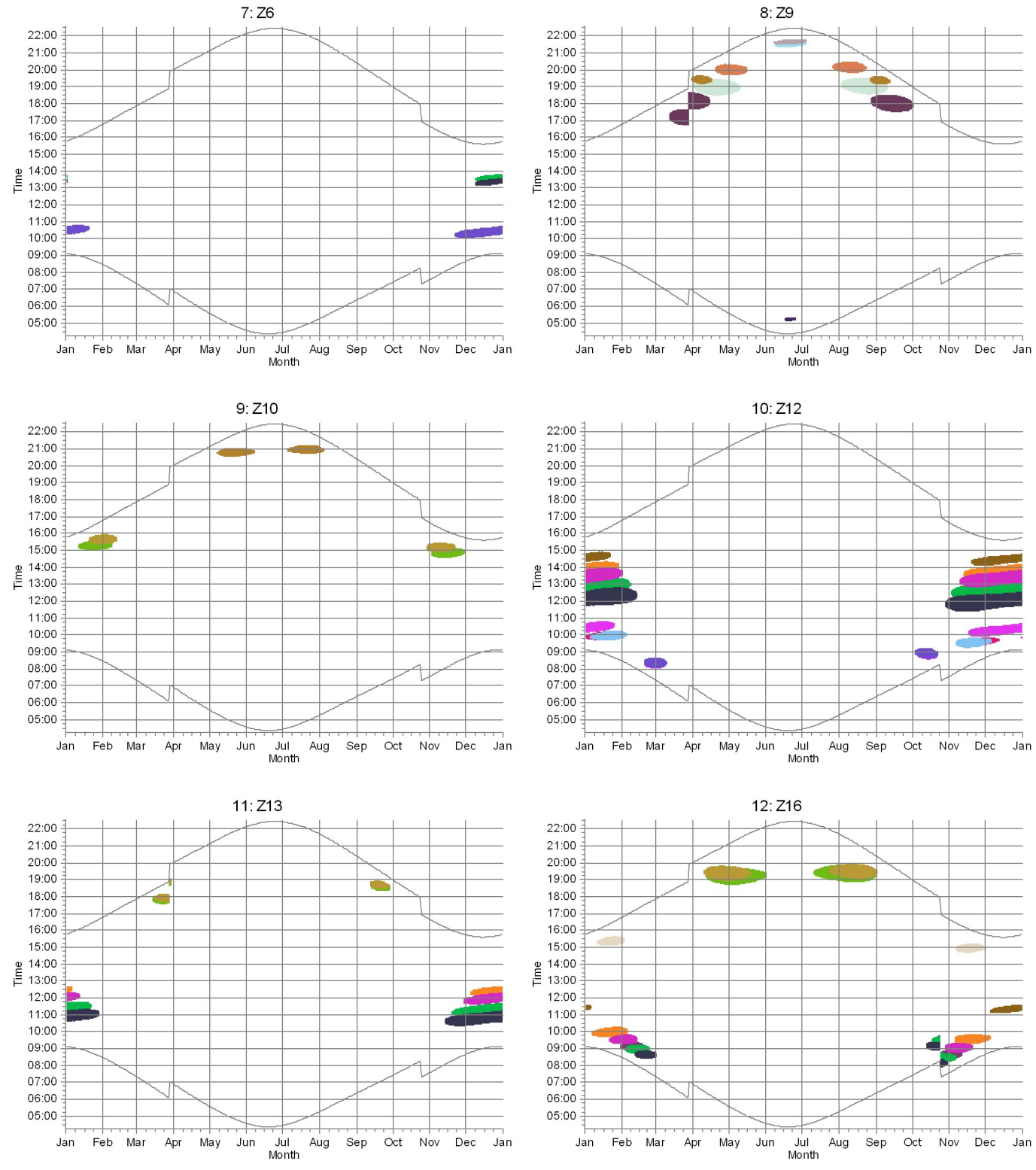
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG, graphical



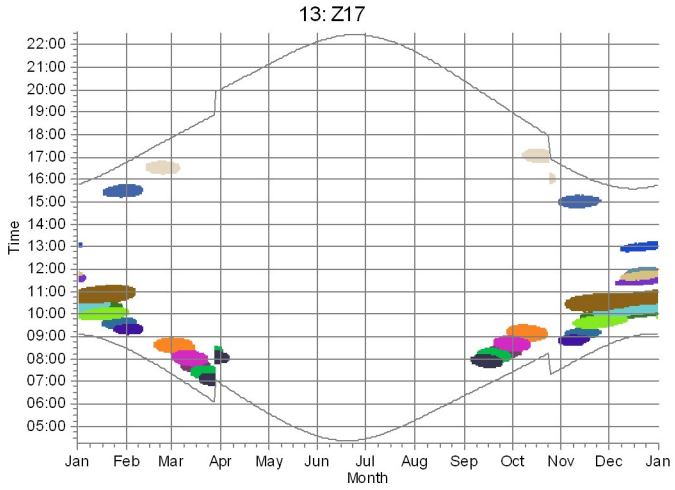
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Calendar per WTG, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

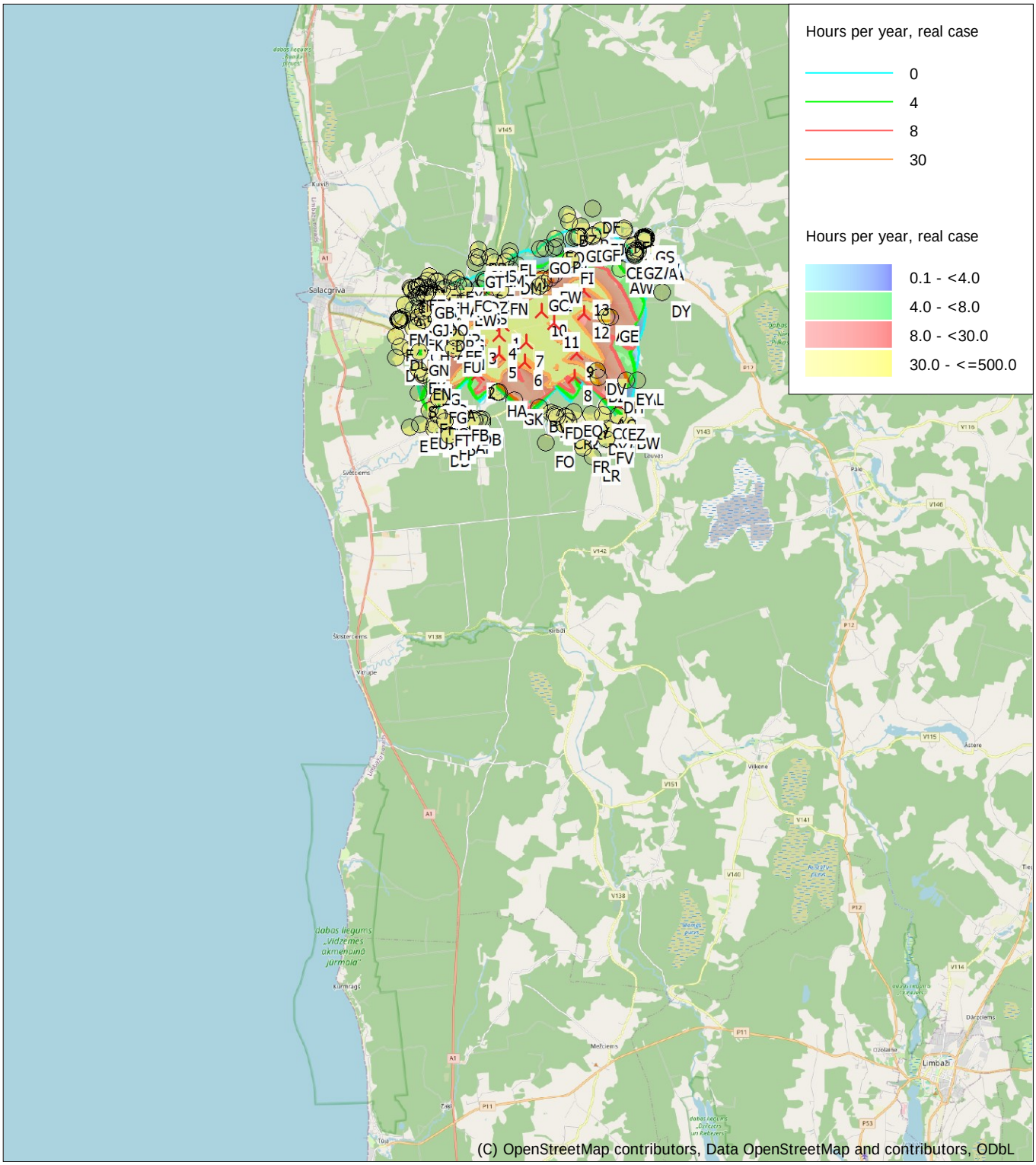
SHADOW - Calendar per WTG, graphical





Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
18.09.2025 07:08/4.1.287

SHADOW - Map



0 2.5 5 7.5 10km

Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Latvian TM LKS92-LKS92 (LV) East: 528 700 North: 392 236

New WTG Shadow receptor

Flicker map level: Elevation Grid Data Object: ground.wpg (7)

Time step: 2 minutes, Day step: 3 days, Map resolution: 10 m, Visibility resolution: 5 m, Eye height: 1.5 m