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Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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) []

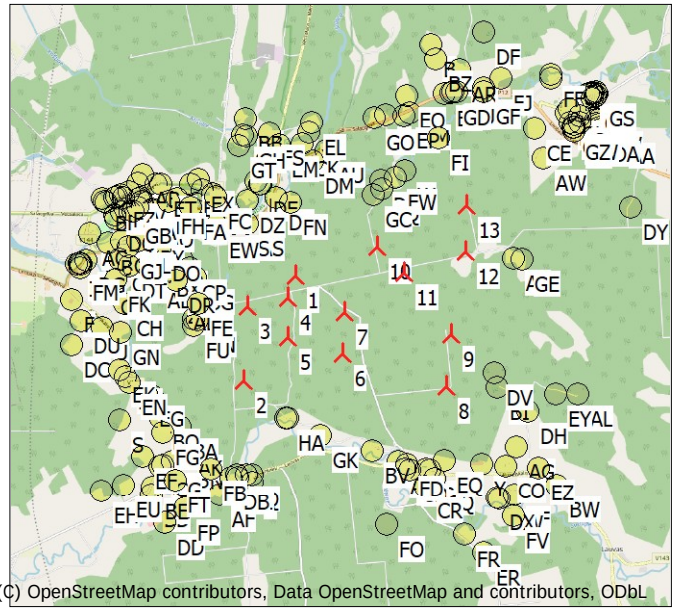
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.96	2.07	4.32	6.59	9.64	9.55	9.82	8.35	5.52	3.17	1.24	0.85

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-6 800	6 800	175.0	179.0	1 893	10.8
3	526 578	399 986	24.0	Z2	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
4	527 252	400 134	26.3	Z3	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
5	527 258	399 468	26.0	Z4	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
6	528 156	399 224	26.7	Z5	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
7	528 185	399 896	28.5	Z6	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
8	529 862	398 686	31.5	Z9	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
9	529 954	399 532	30.1	Z10	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
10	528 702	400 976	29.2	Z12	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
11	529 153	400 543	28.2	Z13	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
12	530 179	400 913	30.5	Z16	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	10.8
13	530 196	401 685	32.3	Z17	Yes	NORDEX	N175/6.X-6 800	6 800	175.0	179.0	1 893	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

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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

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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

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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	28:38	85	0:31	5:00
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	13:15	38	0:27	4:00
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	0:00	0	0:00	0:00
M	Ausekli	5:49	28	0:16	0:24
N	Auzinas	0:00	0	0:00	0:00
O	Avoti	0:00	0	0:00	0:00
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	0:00	0	0:00	0:00
U	Birznieki	0:00	0	0:00	0:00
V	Birztalinas	0:00	0	0:00	0:00
W	Birzuli	71:01	131	0:51	7:29
X	Bruveli	0:00	0	0:00	0:00
Y	Caunites	0:00	0	0:00	0:00
Z	Cerini 2	31:44	90	0:33	5:10
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	47:26	100	0:58	8:59
AE	Dundagas	10:10	32	0:25	1:59
AF	Duneni	0:00	0	0:00	0:00
AG	Eglites	7:49	31	0:19	2:28
AH	Einbluti	0:00	0	0:00	0:00
AI	Ergli	0:00	0	0:00	0:00
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	73:29	106	0:52	6:05
AT	Jaunkastanas	88:39	175	1:02	22:44
AU	Jaunolki	22:05	62	0:25	1:37
AV	Jaunsalinas	0:00	0	0:00	0:00
AW	Jaunspringi	13:31	37	0:28	2:10
AX	Jauntaujani 1	0:00	0	0:00	0:00
AY	Jaunterces	5:06	26	0:15	0:22
AZ	Jaunto š eni	78:13	162	0:51	20:05
BA	Jaunupites	16:38	45	0:28	5:28
BB	Jaunzagme ž i	0:00	0	0:00	0:00
BC	Jemekli	0:00	0	0:00	0:00
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	70:19	168	0:53	11:46
BH	Kalnrujas	0:00	0	0:00	0:00
BI	Kardes	39:35	66	0:47	11:34
BJ	Karogi	0:00	0	0:00	0:00

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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	23:59	70	0:24	1:50
BN	Krusteici	117:34	224	1:05	31:35
BO	Krumini	20:34	58	0:28	6:42
BP	Kudlei š i	0:00	0	0:00	0:00
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	2:47	18	0:12	0:54
BW	Kir š i	0:00	0	0:00	0:00
BX	Lapskalni	11:36	34	0:26	1:57
BY	Lazdas	0:00	0	0:00	0:00
BZ	Legzdini	0:00	0	0:00	0:00
CA	Leinieki	0:00	0	0:00	0:00
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	14:55	46	0:25	1:26
CF	Liepavoti	0:00	0	0:00	0:00
CG	Liepavoti 1	0:00	0	0:00	0:00
CH	Lici š i	0:00	0	0:00	0:00
CI	Licupites	0:00	0	0:00	0:00
CJ	Lojas	0:00	0	0:00	0:00
CK	Lekungas	0:00	0	0:00	0:00
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	35:22	90	0:38	6:34
CQ	Mazkuikuli A	0:00	0	0:00	0:00
CR	Mazkuikuli B	0:00	0	0:00	0:00
CS	Mazskujinas	0:00	0	0:00	0:00
CT	Mazspridi š i A	0:00	0	0:00	0:00
CU	Mazspridi š i B	0:00	0	0:00	0:00
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	4:30	24	0:14	0:19
DF	Me ž strauti	0:00	0	0:00	0:00
DG	Mui ž nieki	0:00	0	0:00	0:00
DH	Namdari	16:55	45	0:29	5:01
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	77:58	143	1:05	8:17
DM	Olki	17:08	57	0:24	1:23
DN	O š u iela 1	0:00	0	0:00	0:00
DO	Paegli	10:04	32	0:24	1:31
DP	Parka iela 6	0:00	0	0:00	0:00
DQ	Parka iela 8	0:00	0	0:00	0:00
DR	Pavasari	24:09	51	0:45	5:05
DS	Pavuli	27:57	61	0:53	2:49
DT	Pecinas	0:00	0	0:00	0:00
DU	Pietes	0:00	0	0:00	0:00

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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	37:37	61	0:48	9:10
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	41:44	68	0:47	3:07
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	0:00	0	0:00	0:00
EG	Raudupes	11:26	35	0:25	3:23
EH	Riekstini	0:00	0	0:00	0:00
EI	Rudzi š i 1	0:00	0	0:00	0:00
EJ	Salacas	0:00	0	0:00	0:00
EK	Sarupes	0:00	0	0:00	0:00
EL	Sauleskalni	0:00	0	0:00	0:00
EM	Sauleskalni 2	0:00	0	0:00	0:00
EN	Saulkrasti	0:00	0	0:00	0:00
EO	Sildarzini	0:00	0	0:00	0:00
EP	Silkaleji	19:09	68	0:24	1:31
EQ	Silkalni	0:00	0	0:00	0:00
ER	Silmaci	0:00	0	0:00	0:00
ES	Silveveri	55:17	116	0:41	5:03
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	51:04	129	0:31	4:48
EX	Smil š kalni	0:00	0	0:00	0:00
EY	Soles	7:56	28	0:22	2:07
EZ	Sprundas	0:00	0	0:00	0:00
FA	Stienu ž i	21:40	64	0:23	1:37
FB	Straujupites	0:00	0	0:00	0:00
FC	Sunuki	6:29	30	0:19	0:35
FD	Svetupe	0:00	0	0:00	0:00
FE	Tamisari	103:04	183	1:12	21:52
FF	Taujani	0:00	0	0:00	0:00
FG	Tomsoni	28:15	70	0:28	9:20
FH	Toskana	0:00	0	0:00	0:00
FI	Tuiskas	43:57	85	0:36	3:18
FJ	Ugraji	0:00	0	0:00	0:00
FK	Upenieki	0:00	0	0:00	0:00
FL	Upeslici	0:00	0	0:00	0:00
FM	Upmali	0:00	0	0:00	0:00
FN	Urgas	43:33	79	1:05	4:19
FO	Uzinas	0:00	0	0:00	0:00
FP	Vairogi	0:00	0	0:00	0:00
FQ	Vaverites	101:25	158	1:13	10:49
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	113:07	213	0:59	30:49
FV	Veckulmaki	0:00	0	0:00	0:00
FW	Vecmelderi	76:25	143	0:55	8:12
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	125:50	160	1:18	12:46
GD	Vecspridi š i	0:00	0	0:00	0:00
GE	Vecto š eni	48:53	107	0:43	12:07
GF	Vecupites	0:00	0	0:00	0:00

To be continued on next page...

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values 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	22:40	58	0:28	7:14
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	0:00	0	0:00	0:00
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	192:11	39:17
3	Z2	352:35	73:04
4	Z3	173:30	26:53
5	Z4	38:44	7:47
6	Z5	0:00	0:00
7	Z6	0:00	0:00
8	Z9	110:31	30:41
9	Z10	29:22	2:49
10	Z12	233:33	20:07
11	Z13	66:01	6:12
12	Z16	116:46	24:25
13	Z17	175:51	23:08

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.

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	07:47 (4)	06:54	05:34	04:33	04:26	05:15	06:21	07:25	08:22 (4)	07:34	08:20 (3)	08:39
	15:46	16:46	17:52	28 09:00 (3)	20:01	21:08	22:09	22:26	21:42	20:24	19:00	14 08:36 (4)	16:38	5 08:25 (3)	15:43
2	09:06	08:25	07:17	07:45 (4)	06:51	05:31	04:32	04:27	05:17	06:23	07:27	08:20 (4)	07:36		08:41
	15:47	16:49	17:54	24 08:56 (3)	20:04	21:10	22:10	22:26	21:39	20:21	18:57	17 08:37 (4)	16:36		15:42
3	09:06	08:23	07:14	07:43 (4)	06:48	05:29	04:31	04:28	05:19	06:25	07:29	08:19 (4)	07:38		08:43
	15:48	16:51	17:57	17 08:00 (4)	20:06	21:12	22:12	22:25	21:37	20:18	18:54	19 08:38 (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	08:18 (4)	07:41		08:45
	15:50	16:53	17:59	19 08:02 (4)	20:08	21:14	22:13	22:24	21:35	20:15	18:51	20 08:38 (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	20 08:02 (4)	20:10	21:16	22:15	22:24	21:33	20:13	18:49	21 08:38 (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	08:17 (4)	07:45		08:48
	15:53	16:58	18:04	21 08:02 (4)	20:12	21:19	22:16	22:23	21:30	20:10	18:46	21 08:38 (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	22 08:02 (4)	20:15	21:21	22:17	22:22	21:28	20:07	18:43	21 08:38 (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	21 08:01 (4)	20:17	21:23	22:18	22:21	21:26	20:04	18:40	21 08:38 (4)	16:22		15:38
9	09:02	08:10	06:58	07:41 (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	20 08:01 (4)	20:19	21:25	22:19	22:20	21:23	20:01	18:38	20 08:37 (4)	16:20		15:37
10	09:01	08:08	08:50 (3) 06:55	07:41 (4)	06:29	05:13	04:24	04:36	05:34	06:40	07:44	08:17 (4)	07:55		08:54
	15:59	17:08	7 08:57 (3) 18:13	19 08:00 (4)	20:21	21:27	22:21	22:19	21:21	19:59	18:35	18 08:35 (4)	16:18		15:36
11	09:00	08:05	08:46 (3) 06:53	07:41 (4)	06:26	05:11	04:24	04:38	05:36	06:42	07:46	08:18 (4)	07:57		08:55
	16:01	17:10	14 09:00 (3) 18:15	18 07:59 (4)	20:23	21:29	22:22	22:18	21:18	19:56	18:32	17 08:35 (4)	16:16		15:36
12	08:59	08:03	08:44 (3) 06:50	07:42 (4)	06:24	05:08	04:23	04:39	05:38	06:44	07:49	08:19 (4)	07:59		08:56
	16:03	17:12	19 09:03 (3) 18:17	15 07:57 (4)	20:26	21:31	22:22	22:17	21:16	19:53	18:29	26 09:31 (3)	16:14		15:36
13	08:58	08:00	08:42 (3) 06:47	07:44 (4)	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:22 (4)	08:01		08:58
	16:05	17:15	22 09:04 (3) 18:19	11 07:55 (4)	20:28	21:34	22:23	22:15	21:14	19:50	18:27	25 09:33 (3)	16:12		15:35
14	08:57	07:58	08:40 (3) 06:44		06:18	05:04	04:22	04:42	05:43	06:49	07:53	09:14 (3)	08:04		08:59
	16:07	17:17	25 09:05 (3) 18:22		20:30	21:36	22:24	22:14	21:11	19:47	18:24	22 09:36 (3)	16:10		15:35
15	08:56	07:56	08:40 (3) 06:41	07:08 (1)	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	26 09:06 (3) 18:24	4 07:12 (1)	20:32	21:38	22:25	22:13	21:09	19:45	18:21	24 09:36 (3)	16:08		15:35
16	08:55	07:53	08:39 (3) 06:39	07:05 (1)	06:13	05:00	04:21	04:45	05:47	06:53	07:57	09:11 (3)	08:08		09:01
	16:11	17:22	28 09:07 (3) 18:26	8 07:13 (1)	20:34	21:40	22:25	22:11	21:06	19:42	18:19	26 09:37 (3)	16:06		15:35
17	08:53	07:51	08:39 (3) 06:36	07:02 (1)	06:10	04:58	04:21	04:47	05:49	06:55	08:00	09:10 (3)	08:10		09:02
	16:13	17:24	29 09:08 (3) 18:28	11 07:13 (1)	20:37	21:42	22:26	22:10	21:04	19:39	18:16	28 09:38 (3)	16:04		15:35
18	08:52	07:48	08:38 (3) 06:33	06:59 (1)	06:07	04:56	04:21	04:49	05:51	06:57	08:02	09:09 (3)	08:13		09:03
	16:15	17:26	30 09:08 (3) 18:30	14 07:13 (1)	20:39	21:44	22:27	22:08	21:01	19:36	18:13	29 09:38 (3)	16:02		15:35
19	08:50	07:46	08:37 (3) 06:30	06:56 (1)	06:05	04:54	04:21	04:50	05:53	06:59	07:47 (1)	08:04	09:08 (3)	08:15	09:03
	16:17	17:29	31 09:08 (3) 18:33	17 07:13 (1)	20:41	21:46	22:27	22:06	20:58	19:33	7 07:54 (1)	18:11	30 09:38 (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)	08:06	09:08 (3)	08:17	09:04
	16:19	17:31	30 09:08 (3) 18:35	17 07:13 (1)	20:43	21:48	22:27	22:05	20:56	19:31	12 07:56 (1)	18:08	31 09:39 (3)	15:59	15:36
21	08:47	07:41	08:38 (3) 06:25	06:56 (1)	05:59	04:50	04:21	04:54	05:58	07:03	07:43 (1)	08:09	09:08 (3)	08:19	09:05
	16:21	17:34	30 09:08 (3) 18:37	16 07:12 (1)	20:46	21:50	22:28	22:03	20:53	19:28	14 07:57 (1)	18:06	30 09:38 (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	30 09:07 (3) 18:39	14 07:11 (1)	20:48	21:52	22:28	22:01	20:51	19:25	16 07:57 (1)	18:03	31 09:39 (3)	15:56	15:37
23	08:44	07:36	08:38 (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	30 09:08 (3) 18:42	13 07:10 (1)	20:50	21:54	22:28	22:00	20:48	19:22	17 07:57 (1)	18:00	30 09:38 (3)	15:54	15:37
24	08:42	07:33	08:38 (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	29 09:07 (3) 18:44	8 07:07 (1)	20:52	21:55	22:28	21:58	20:45	19:19	17 07:57 (1)	17:58	29 09:38 (3)	15:53	15:38
25	08:41	07:30	08:39 (3) 06:14		05:49	04:43	04:22	05:01	06:06	07:12	07:41 (1)	07:18	08:08 (3)	08:28	09:07
	16:30	17:43	27 09:06 (3) 18:46		20:54	21:57	22:28	21:56	20:43	19:16	15 07:56 (1)	16:55	29 08:37 (3)	15:51	15:38
26	08:39	07:28	08:39 (3) 06:11		05:46	04:42	04:23	05:03	06:08	07:14	07:43 (1)	07:20	08:09 (3)	08:30	09:07
	16:32	17:45	26 09:05 (3) 18:48		20:57	21:59	22:28	21:54	20:40	19:14	12 07:55 (1)	16:53	28 08:37 (3)	15:50	15:39
27	08:37	07:25	08:41 (3) 06:08		05:44	04:40	04:23	05:05	06:10	07:16	07:46 (1)	07:22	08:10 (3)	08:32	09:07
	16:35	17:47	23 09:04 (3) 18:50		20:59	22:01	22:28	21:52	20:37	19:11	9 07:55 (1)	16:50	25 08:35 (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	07:48 (1)	07:25	08:11 (3)	08:34	09:07
	16:37	17:50	20 09:02 (3) 18:53		21:01	22:02	22:28	21:50	20:35	19:08	5 07:53 (1)	16:48	24 08:35 (3)	15:47	15:41
29	08:33		07:02		05:39	04:37	04:25	05:09	06:15	07:20		07:27	08:12 (3)	08:35	09:07
	16:39		19:55		21:03	22:04	22:27	21:48	20:32	19:05		16:45	21 08:33 (3)	15:46	15:42
30	08:31		07:00		05:36	04:36	04:25	05:11	06:17	07:23	08:25 (4)	07:29	08:14 (3)	08:37	09:07
	16:42		19:57		21:05	22:06	22:27	21:46	20:29	19:02	8 08:33 (4)	16:43	18 08:32 (3)	15:45	15:43
31	08:29		06:57			04:34		05:13	06:19			07:32	08:16 (3)		09:07
	16:44		19:59			22:07		21:44	20:26			16:41	13 08:29 (3)		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386			321		241		207
Total, worst case		476	377							132		728		5	
Sun reduction		0.22	0.37							0.43		0.31		0.15	
Oper. time red.		0.93	0.93							0.93		0.93		0.93	
Wind dir. red.		0.63	0.61							0.63		0.62		0.63	
Total reduction		0.13	0.21							0.25		0.18		0.09	
Total, real		61	78							33		127		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
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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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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	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
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	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
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	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	04:33	04:26	05:15		06:21	06:58 (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 9	07:07 (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		07:27	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	09:05	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		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	06:59 (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 9	07:08 (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	06:56 (2)	05:08	04:23	04:39	05:39		06:44		07:49	07:59	08:56
	16:03	17:12	18:17	20:26 14	07:10 (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	06:54 (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 18	07:12 (2)	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	06:52 (2)	05:04	04:22	04:42	05:43	07:02 (2)	06:49		07:53	08:04	08:59
	16:07	17:17	18:22	20:30 21	07:13 (2)	21:36	22:24	22:14	21:11 10	07:12 (2)	19:47		18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	06:50 (2)	05:02	04:22	04:44	05:45	06:59 (2)	06:51		07:55	08:06	09:00
	16:09	17:19	18:24	20:32 23	07:13 (2)	21:38	22:25	22:12	21:09 15	07:14 (2)	19:45		18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	06:50 (2)	05:00	04:22	04:45	05:47	06:58 (2)	06:53		07:57	08:08	09:01
	16:11	17:22	18:26	20:34 24	07:14 (2)	21:40	22:25	22:11	21:06 18	07:16 (2)	19:42		18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	06:49 (2)	04:58	04:21	04:47	05:49	06:56 (2)	06:55		08:00	08:10	09:02
	16:13	17:24	18:28	20:37 25	07:14 (2)	21:42	22:26	22:10	21:03 21	07:17 (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	06:55 (2)	06:57		08:02	08:12	09:02
	16:15	17:27	18:31	20:39 26	07:15 (2)	21:44	22:26	22:08	21:01 22	07:17 (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	06:54 (2)	06:59		08:04	08:15	09:03
	16:17	17:29	18:33	20:41 26	07:14 (2)	21:46	22:27	22:06	20:58 24	07:18 (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 27	07:14 (2)	21:48	22:27	22:05	20:56 25	07:18 (2)	19:31		18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	06:48 (2)	04:50	04:21	04:54	05:58	06:53 (2)	07:03		08:09	08:19	09:05
	16:21	17:34	18:37	20:45 26	07:14 (2)	21:50	22:27	22:03	20:53 26	07:19 (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 26	07:13 (2)	21:52	22:28	22:01	20:50 27	07:19 (2)	19:25		18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	06:48 (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 25	07:13 (2)	21:53	22:28	21:59	20:48 26	07:18 (2)	19:22		18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	06:49 (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 23	07:12 (2)	21:55	22:28	21:58	20:45 26	07:18 (2)	19:19		17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	06:49 (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 22	07:11 (2)	21:57	22:28	21:56	20:43 26	07:18 (2)	19:16		16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	06:50 (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 20	07:10 (2)	21:59	22:28	21:54	20:40 25	07:17 (2)	19:14		16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	06:50 (2)	04:40	04:23	05:05	06:11	06:52 (2)	07:16		07:22	08:31	09:07
	16:35	17:48	18:50	20:59 18	07:08 (2)	22:01	22:28	21:52	20:37 24	07:16 (2)	19:11		16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	06:52 (2)	04:39	04:24	05:07	06:13	06:52 (2)	07:18		07:25	08:33	09:07
	16:37	17:50	18:53	21:01 14	07:06 (2)	22:02	22:27	21:50	20:34 23	07:15 (2)	19:08		16:48	15:47	15:41
29	08:33		07:02	05:39	06:56 (2)	04:37	04:25	05:09	06:15	06:53 (2)	07:20		07:27	08:35	09:07
	16:39		19:55	21:03 7	07:03 (2)	22:04	22:27	21:48	20:32 21	07:14 (2)	19:05		16:46	15:46	15:42
30	08:31		07:00	05:37		04:36	04:26	05:11	06:17	06:54 (2)	07:23		07:29	08:37	09:07
	16:42		19:57	21:05		22:06	22:27	21:46	20:29 18	07:12 (2)	19:02		16:43	15:45	15:43
31	08:29		06:57			04:35		05:13	06:19	06:55 (2)			07:31		09:07
	16:44		19:59			22:07		21:44	20:26 15	07:10 (2)			16:41		15:44
Potential sun hours	227	262	365	429		515	539	538	474		386		321	241	207
Total, worst case					394					392		9			
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					109					129		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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)		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
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	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
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	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
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	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
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	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
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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:
17.09.2025 17:50/4.1.287

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
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	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
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	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
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	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
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	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
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	16:11	17:22	18:26	20:35	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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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
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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:
17.09.2025 17:50/4.1.287

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
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	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
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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
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	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
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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
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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
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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
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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
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	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
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	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
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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:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
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	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:36
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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
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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
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	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
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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:
17.09.2025 17:50/4.1.287

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
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	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
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	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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	08:39
	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	22:10	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	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	07:57	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	09:03
	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	08:15	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	17:48	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	11	10:49 (1)	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	9	10:48 (1)	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	7	10:47 (1)	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	4	10:46 (1)	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			16:56	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	18:03	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	04:26	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	4	10:34 (1)
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	7	10:36 (1)
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	9	10:37 (1)
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	11	10:39 (1)
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	11	10:39 (1)
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	13	10:40 (1)
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	13	10:41 (1)
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	14	10:42 (1)
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	15	10:43 (1)
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	14	10:43 (1)
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	15	10:44 (1)
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	15	10:45 (1)
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	16	10:45 (1)
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	16	10:46 (1)
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	16	10:46 (1)
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	16	10:47 (1)
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	16	10:47 (1)
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	15	10:47 (1)
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	15	10:47 (1)
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	15	10:48 (1)
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	14	10:48 (1)
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	13	10:48 (1)
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	13	10:49 (1)
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	12	10:48 (1)
Potential sun hours	227			262	365	429	515	539	539	475	386	321	241	207		
Total, worst case		31													318	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.60													0.60	
Total reduction		0.07													0.07	
Total, real		2													23	

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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	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
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29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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	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	05:20	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	18:37	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	04:38	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
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	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
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	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
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	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
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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
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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
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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
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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
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29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07
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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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:35
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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
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
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	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
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	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
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	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
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	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
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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
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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
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	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
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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
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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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
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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
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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
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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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
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	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	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
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	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
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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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
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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
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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
	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	20:34	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		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	15:44	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		16:41		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	04:27	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	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
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	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	08:17	07:06	06:40	05:22	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	18:46	16:26	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	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	17:02	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	06:32	05:15	04:25	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	15:37
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:35	16:18	15:36
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Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
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Table layout: For each day in each month the following matrix apply

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

SHADOW - Calendar

Shadow receptor: W - Birzuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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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		13:37 (10)	08:27		09:53 (12)	07:20		08:17 (13)	06:54	05:34	04:33
	15:45	32	14:09 (10)	16:46	12	10:05 (12)	17:52	34	08:51 (13)	20:01	21:07	22:09
2	09:06		13:38 (10)	08:25		09:56 (12)	07:17		08:16 (13)	06:51	05:31	04:31
	15:47	32	14:10 (10)	16:48	6	10:02 (12)	17:54	34	08:50 (13)	20:03	21:10	22:10
3	09:06		13:38 (10)	08:23			07:14		08:16 (13)	06:48	05:29	04:30
	15:48	32	14:10 (10)	16:51			17:56	34	08:50 (13)	20:06	21:12	22:12
4	09:05		13:38 (10)	08:21			07:11		08:16 (13)	06:45	05:26	04:29
	15:49	32	14:10 (10)	16:53			17:59	33	08:49 (13)	20:08	21:14	22:13
5	09:05		09:47 (12)	08:19			07:09		08:17 (13)	06:43	05:24	04:28
	15:51	38	14:11 (10)	16:55			18:01	32	08:49 (13)	20:10	21:16	22:15
6	09:04		09:47 (12)	08:16			07:06		08:17 (13)	06:40	05:22	04:27
	15:52	41	14:12 (10)	16:58			18:03	31	08:48 (13)	20:12	21:18	22:16
7	09:04		09:46 (12)	08:14			07:03		08:18 (13)	06:37	05:19	04:26
	15:54	43	14:12 (10)	17:00			18:06	29	08:47 (13)	20:14	21:21	22:17
8	09:03		09:45 (12)	08:12			07:01		08:18 (13)	06:34	05:17	04:25
	15:56	45	14:12 (10)	17:02			18:08	27	08:45 (13)	20:17	21:23	22:18
9	09:02		09:44 (12)	08:10			06:58		08:19 (13)	06:32	05:15	04:25
	15:57	47	14:12 (10)	17:05			18:10	24	08:43 (13)	20:19	21:25	22:19
10	09:01		09:44 (12)	08:07			06:55		08:22 (13)	06:29	05:12	04:24
	15:59	48	14:13 (10)	17:07			18:12	19	08:41 (13)	20:21	21:27	22:20
11	09:00		09:44 (12)	08:05			06:52		08:24 (13)	06:26	05:10	04:23
	16:01	49	14:13 (10)	17:10			18:15	14	08:38 (13)	20:23	21:29	22:21
12	08:59		09:43 (12)	08:03			06:50			06:23	05:08	04:23
	16:03	50	14:13 (10)	17:12			18:17			20:25	21:31	22:22
13	08:58		09:44 (12)	08:00			06:47			06:21	05:06	04:22
	16:05	49	14:13 (10)	17:14			18:19			20:28	21:33	22:23
14	08:57		09:43 (12)	07:58			06:44			06:18	05:04	04:22
	16:06	51	14:13 (10)	17:17			18:21			20:30	21:35	22:24
15	08:56		09:44 (12)	07:55			06:41			06:15	05:02	04:21
	16:08	51	14:14 (10)	17:19			18:24			20:32	21:38	22:25
16	08:54		09:43 (12)	07:53			06:38			06:12	05:00	04:21
	16:10	50	14:13 (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	51	14:13 (10)	17:24			18:28			20:36	21:42	22:26
18	08:52		09:44 (12)	07:48		08:30 (13)	06:33			06:07	04:56	04:21
	16:14	49	14:13 (10)	17:26	10	08:40 (13)	18:30			20:39	21:44	22:26
19	08:50		09:44 (12)	07:46		08:27 (13)	06:30			06:04	04:54	04:21
	16:17	49	14:13 (10)	17:29	16	08:43 (13)	18:32			20:41	21:46	22:27
20	08:49		09:44 (12)	07:43		08:24 (13)	06:27			06:02	04:52	04:21
	16:19	47	14:12 (10)	17:31	21	08:45 (13)	18:35			20:43	21:48	22:27
21	08:47		09:44 (12)	07:40		08:23 (13)	06:25			05:59	04:50	04:21
	16:21	45	14:11 (10)	17:33	24	08:47 (13)	18:37			20:45	21:50	22:28
22	08:46		09:44 (12)	07:38		08:21 (13)	06:22			05:57	04:48	04:21
	16:23	42	14:10 (10)	17:36	27	08:48 (13)	18:39			20:48	21:51	22:28
23	08:44		09:44 (12)	07:35		08:20 (13)	06:19			05:54	04:46	04:21
	16:25	39	14:08 (10)	17:38	29	08:49 (13)	18:41			20:50	21:53	22:28
24	08:42		09:45 (12)	07:33		08:19 (13)	06:16			05:51	04:45	04:22
	16:27	32	14:05 (10)	17:40	31	08:50 (13)	18:43			20:52	21:55	22:28
25	08:41		09:45 (12)	07:30		08:18 (13)	06:13			05:49	04:43	04:22
	16:30	25	10:10 (12)	17:43	32	08:50 (13)	18:46			20:54	21:57	22:28
26	08:39		09:46 (12)	07:27		08:17 (13)	06:10			05:46	04:41	04:22
	16:32	24	10:10 (12)	17:45	33	08:50 (13)	18:48			20:56	21:59	22:28
27	08:37		09:47 (12)	07:25		08:17 (13)	06:08			05:44	04:40	04:23
	16:34	23	10:10 (12)	17:47	33	08:50 (13)	18:50			20:59	22:01	22:28
28	08:35		09:48 (12)	07:22		08:17 (13)	06:05			05:41	04:38	04:24
	16:37	22	10:10 (12)	17:50	34	08:51 (13)	18:52			21:01	22:02	22:27
29	08:33		09:48 (12)				07:02			05:39	04:37	04:24
	16:39	20	10:08 (12)				19:55			21:03	22:04	22:27
30	08:31		09:49 (12)				06:59			05:36	04:35	04:25
	16:41	19	10:08 (12)				19:57			21:05	22:06	22:27
31	08:29		09:51 (12)				06:57				04:34	
	16:44	16	10:07 (12)				19:59				22:07	
Potential sun hours	227			262			365			429	515	539
Total, worst case		1193			308			311				
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		91			39			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)

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LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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			07:34			08:39		09:26 (12)
	22:26	21:41	20:23	18:59			16:38			15:43	49	13:55 (10)
2	04:27	05:17	06:23	07:27		09:04 (13)	07:36			08:41		09:27 (12)
	22:26	21:39	20:21	18:57	10	09:14 (13)	16:36			15:42	48	13:56 (10)
3	04:28	05:19	06:25	07:29		09:00 (13)	07:38			08:43		09:28 (12)
	22:25	21:37	20:18	18:54	17	09:17 (13)	16:33			15:41	47	13:56 (10)
4	04:29	05:21	06:27	07:31		08:58 (13)	07:41			08:44		09:30 (12)
	22:24	21:35	20:15	18:51	22	09:20 (13)	16:31			15:40	45	13:57 (10)
5	04:30	05:23	06:29	07:33		08:56 (13)	07:43			08:46		09:31 (12)
	22:24	21:32	20:12	18:48	25	09:21 (13)	16:29			15:39	43	13:57 (10)
6	04:31	05:25	06:31	07:35		08:55 (13)	07:45			08:48		09:32 (12)
	22:23	21:30	20:10	18:46	27	09:22 (13)	16:26			15:39	41	13:57 (10)
7	04:32	05:27	06:34	07:37		08:53 (13)	07:47			08:49		09:34 (12)
	22:22	21:28	20:07	18:43	30	09:23 (13)	16:24			15:38	39	13:58 (10)
8	04:33	05:30	06:36	07:40		08:53 (13)	07:50			08:51		13:26 (10)
	22:21	21:26	20:04	18:40	31	09:24 (13)	16:22			15:37	32	13:58 (10)
9	04:35	05:32	06:38	07:42		08:52 (13)	07:52		09:26 (12)	08:52		13:27 (10)
	22:20	21:23	20:01	18:37	32	09:24 (13)	16:20	7	09:33 (12)	15:37	32	13:59 (10)
10	04:36	05:34	06:40	07:44		08:51 (13)	07:54		09:24 (12)	08:54		13:27 (10)
	22:19	21:21	19:58	18:35	33	09:24 (13)	16:18	12	09:36 (12)	15:36	32	13:59 (10)
11	04:37	05:36	06:42	07:46		08:50 (13)	07:57		09:22 (12)	08:55		13:28 (10)
	22:18	21:18	19:56	18:32	34	09:24 (13)	16:16	16	09:38 (12)	15:36	32	14:00 (10)
12	04:39	05:38	06:44	07:48		08:50 (13)	07:59		09:21 (12)	08:56		13:28 (10)
	22:16	21:16	19:53	18:29	34	09:24 (13)	16:14	19	09:40 (12)	15:35	32	14:00 (10)
13	04:40	05:40	06:46	07:51		08:50 (13)	08:01		09:20 (12)	08:57		13:28 (10)
	22:15	21:13	19:50	18:26	34	09:24 (13)	16:12	20	09:40 (12)	15:35	32	14:00 (10)
14	04:42	05:42	06:48	07:53		08:49 (13)	08:03		09:20 (12)	08:59		13:30 (10)
	22:14	21:11	19:47	18:24	34	09:23 (13)	16:10	21	09:41 (12)	15:35	31	14:01 (10)
15	04:43	05:44	06:50	07:55		08:50 (13)	08:06		09:19 (12)	09:00		13:30 (10)
	22:12	21:08	19:44	18:21	33	09:23 (13)	16:08	23	09:42 (12)	15:35	31	14:01 (10)
16	04:45	05:47	06:53	07:57		08:50 (13)	08:08		09:19 (12)	09:01		13:30 (10)
	22:11	21:06	19:42	18:18	32	09:22 (13)	16:06	24	09:43 (12)	15:35	32	14:02 (10)
17	04:47	05:49	06:55	07:59		08:50 (13)	08:10		09:19 (12)	09:02		13:31 (10)
	22:09	21:03	19:39	18:16	31	09:21 (13)	16:04	25	09:44 (12)	15:35	31	14:02 (10)
18	04:48	05:51	06:57	08:02		08:51 (13)	08:12		09:19 (12)	09:02		13:31 (10)
	22:08	21:01	19:36	18:13	30	09:21 (13)	16:02	32	13:39 (10)	15:35	32	14:03 (10)
19	04:50	05:53	06:59	08:04		08:51 (13)	08:15		09:19 (12)	09:03		13:31 (10)
	22:06	20:58	19:33	18:10	28	09:19 (13)	16:00	39	13:43 (10)	15:35	32	14:03 (10)
20	04:52	05:55	07:01	08:06		08:53 (13)	08:17		09:19 (12)	09:04		13:32 (10)
	22:05	20:56	19:30	18:08	26	09:19 (13)	15:59	42	13:45 (10)	15:35	31	14:03 (10)
21	04:54	05:57	07:03	08:08		08:53 (13)	08:19		09:20 (12)	09:05		13:33 (10)
	22:03	20:53	19:27	18:05	24	09:17 (13)	15:57	45	13:47 (10)	15:36	31	14:04 (10)
22	04:55	05:59	07:05	08:11		08:56 (13)	08:21		09:20 (12)	09:05		13:33 (10)
	22:01	20:50	19:25	18:03	19	09:15 (13)	15:55	47	13:48 (10)	15:36	31	14:04 (10)
23	04:57	06:02	07:07	08:13		08:58 (13)	08:23		09:20 (12)	09:06		13:34 (10)
	21:59	20:48	19:22	18:00	14	09:12 (13)	15:54	49	13:49 (10)	15:37	31	14:05 (10)
24	04:59	06:04	07:09	08:15		09:02 (13)	08:25		09:21 (12)	09:06		13:34 (10)
	21:58	20:45	19:19	17:58	5	09:07 (13)	15:52	49	13:50 (10)	15:37	31	14:05 (10)
25	05:01	06:06	07:12	07:18			08:27		09:21 (12)	09:06		13:34 (10)
	21:56	20:42	19:16	16:55			15:51	51	13:51 (10)	15:38	32	14:06 (10)
26	05:03	06:08	07:14	07:20			08:29		09:22 (12)	09:07		13:35 (10)
	21:54	20:40	19:13	16:53			15:49	51	13:52 (10)	15:39	31	14:06 (10)
27	05:05	06:10	07:16	07:22			08:31		09:23 (12)	09:07		13:35 (10)
	21:52	20:37	19:11	16:50			15:48	51	13:53 (10)	15:40	32	14:07 (10)
28	05:07	06:12	07:18	07:24			08:33		09:23 (12)	09:07		13:36 (10)
	21:50	20:34	19:08	16:48			15:47	51	13:53 (10)	15:41	31	14:07 (10)
29	05:09	06:14	07:20	07:27			08:35		09:24 (12)	09:07		13:36 (10)
	21:48	20:32	19:05	16:45			15:45	50	13:54 (10)	15:42	32	14:08 (10)
30	05:11	06:17	07:22	07:29			08:37		09:24 (12)	09:07		13:36 (10)
	21:46	20:29	19:02	16:43			15:44	50	13:54 (10)	15:43	32	14:08 (10)
31	05:13	06:19		07:31						09:07		13:37 (10)
	21:44	20:26		16:40						15:44	32	14:09 (10)
Potential sun hours	539	475	386	321			241			207		
Total, worst case					605			774			1070	
Sun reduction					0.31			0.15			0.13	
Oper. time red.					0.93			0.93			0.93	
Wind dir. red.					0.62			0.63			0.63	
Total reduction					0.18			0.09			0.07	
Total, real					106			69			79	

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)

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Calculated:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		09:48 (2)	07:20			06:54		08:13 (3)	05:34	04:33
	15:46			16:46	10	09:58 (2)	17:52			20:01	18	08:31 (3)	21:08	22:09
2	09:06			08:25			07:17			06:51		08:15 (3)	05:31	04:32
	15:47			16:49			17:54			20:04	13	08:28 (3)	21:10	22:10
3	09:06			08:23			07:14			06:48			05:29	04:31
	15:48			16:51			17:57			20:06			21:12	22:12
4	09:06			08:21			07:12			06:46			05:27	04:30
	15:50			16:53			17:59			20:08			21:14	22:13
5	09:05			08:19			07:09			06:43			05:24	04:29
	15:51			16:56			18:01			20:10			21:16	22:15
6	09:04			08:17			07:06			06:40			05:22	04:28
	15:53			16:58			18:04			20:12			21:19	22:16
7	09:04			08:14			07:04			06:37			05:20	04:27
	15:54			17:00			18:06			20:15			21:21	22:17
8	09:03			08:12			07:01			06:35			05:17	04:26
	15:56			17:03			18:08			20:17			21:23	22:18
9	09:02		09:42 (2)	08:10			06:58			06:32			05:15	04:25
	15:58	7	09:49 (2)	17:05			18:10			20:19			21:25	22:19
10	09:01		09:41 (2)	08:08			06:55			06:29			05:13	04:24
	15:59	11	09:52 (2)	17:08			18:13			20:21			21:27	22:21
11	09:00		09:41 (2)	08:05			06:53			06:26			05:11	04:24
	16:01	12	09:53 (2)	17:10			18:15			20:23			21:29	22:22
12	08:59		09:40 (2)	08:03			06:50			06:24			05:08	04:23
	16:03	14	09:54 (2)	17:12			18:17			20:26			21:31	22:22
13	08:58		09:40 (2)	08:00			06:47			06:21			05:06	04:23
	16:05	16	09:56 (2)	17:15			18:19			20:28			21:34	22:23
14	08:57		09:39 (2)	07:58			06:44		07:23 (3)	06:18			05:04	04:22
	16:07	17	09:56 (2)	17:17			18:22	10	07:33 (3)	20:30			21:36	22:24
15	08:56		09:39 (2)	07:56			06:42		07:20 (3)	06:15			05:02	04:22
	16:09	19	09:58 (2)	17:19			18:24	16	07:36 (3)	20:32			21:38	22:25
16	08:55		09:39 (2)	07:53			06:39		07:17 (3)	06:13			05:00	04:21
	16:11	19	09:58 (2)	17:22			18:26	21	07:38 (3)	20:34			21:40	22:25
17	08:53		09:38 (2)	07:51			06:36		07:15 (3)	06:10			04:58	04:21
	16:13	21	09:59 (2)	17:24			18:28	24	07:39 (3)	20:37			21:42	22:26
18	08:52		09:39 (2)	07:48			06:33		07:13 (3)	06:07			04:56	04:21
	16:15	21	10:00 (2)	17:27			18:30	27	07:40 (3)	20:39			21:44	22:27
19	08:50		09:39 (2)	07:46			06:30		07:12 (3)	06:05			04:54	04:21
	16:17	22	10:01 (2)	17:29			18:33	28	07:40 (3)	20:41			21:46	22:27
20	08:49		09:39 (2)	07:43			06:28		07:11 (3)	06:02			04:52	04:21
	16:19	22	10:01 (2)	17:31			18:35	30	07:41 (3)	20:43			21:48	22:27
21	08:47		09:39 (2)	07:41			06:25		07:10 (3)	05:59			04:50	04:21
	16:21	23	10:02 (2)	17:34			18:37	31	07:41 (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	23	10:02 (2)	17:36			18:39	31	07:41 (3)	20:48			21:52	22:28
23	08:44		09:39 (2)	07:36			06:19		07:09 (3)	05:54			04:47	04:22
	16:26	23	10:02 (2)	17:38			18:42	32	07:41 (3)	20:50			21:54	22:28
24	08:42		09:40 (2)	07:33			06:16		07:08 (3)	05:52			04:45	04:22
	16:28	22	10:02 (2)	17:41			18:44	32	07:40 (3)	20:52			21:55	22:28
25	08:41		09:40 (2)	07:30			06:14		07:09 (3)	05:49			04:43	04:22
	16:30	22	10:02 (2)	17:43			18:46	32	07:41 (3)	20:54			21:57	22:28
26	08:39		09:41 (2)	07:28			06:11		07:09 (3)	05:46			04:42	04:23
	16:32	22	10:03 (2)	17:45			18:48	31	07:40 (3)	20:57			21:59	22:28
27	08:37		09:41 (2)	07:25			06:08		07:09 (3)	05:44			04:40	04:23
	16:35	22	10:03 (2)	17:48			18:50	30	07:39 (3)	20:59			22:01	22:28
28	08:35		09:42 (2)	07:22			06:05		07:09 (3)	05:41			04:39	04:24
	16:37	20	10:02 (2)	17:50			18:53	29	07:38 (3)	21:01			22:02	22:27
29	08:33		09:44 (2)				07:02		08:09 (3)	05:39			04:37	04:25
	16:39	18	10:02 (2)				19:55	27	08:36 (3)	21:03			22:04	22:27
30	08:31		09:44 (2)				07:00		08:11 (3)	05:36			04:36	04:25
	16:42	16	10:00 (2)				19:57	25	08:36 (3)	21:05			22:06	22:27
31	08:29		09:46 (2)				06:57		08:11 (3)				04:34	
	16:44	14	10:00 (2)				19:59	23	08:34 (3)				22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		426			10			479			31			
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			0.63			0.62			0.62			
Total reduction		0.08			0.13			0.21			0.27			
Total, real		33			1			101			8			

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		09:23 (2)
	22:26	21:42	20:24			19:00	16:38			15:44	13	09:36 (2)
2	04:27	05:17	06:23			07:27	07:36			08:41		09:24 (2)
	22:26	21:39	20:21			18:57	16:36			15:42	11	09:35 (2)
3	04:28	05:19	06:25			07:29	07:38			08:43		09:26 (2)
	22:25	21:37	20:18			18:54	16:34			15:41	8	09:34 (2)
4	04:29	05:22	06:27			07:31	07:41			08:44		09:30 (2)
	22:24	21:35	20:15			18:51	16:31			15:41	1	09:31 (2)
5	04:30	05:24	06:30			07:33	07:43			08:46		
	22:24	21:33	20:13			18:49	16:29			15:40		
6	04:31	05:26	06:32			07:35	07:45			08:48		
	22:23	21:30	20:10			18:46	16:27			15:39		
7	04:32	05:28	06:34			07:38	07:48			08:49		
	22:22	21:28	20:07			18:43	16:25			15:38		
8	04:34	05:30	06:36			07:40	07:50			08:51		
	22:21	21:26	20:04			18:40	16:22			15:38		
9	04:35	05:32	06:38			07:42	07:52		09:23 (2)	08:52		
	22:20	21:23	20:01			18:38	16:20	1	09:24 (2)	15:37		
10	04:36	05:34	06:40		08:08 (3)	07:44	07:55		09:19 (2)	08:54		
	22:19	21:21	19:59	13	08:21 (3)	18:35	16:18	10	09:29 (2)	15:37		
11	04:38	05:36	06:42		08:05 (3)	07:46	07:57		09:16 (2)	08:55		
	22:18	21:18	19:56	18	08:23 (3)	18:32	16:16	14	09:30 (2)	15:36		
12	04:39	05:38	06:44		08:03 (3)	07:49	07:59		09:16 (2)	08:56		
	22:17	21:16	19:53	22	08:25 (3)	18:29	16:14	16	09:32 (2)	15:36		
13	04:41	05:41	06:47		08:01 (3)	07:51	08:01		09:15 (2)	08:58		
	22:15	21:14	19:50	25	08:26 (3)	18:27	16:12	19	09:34 (2)	15:36		
14	04:42	05:43	06:49		08:00 (3)	07:53	08:04		09:14 (2)	08:59		
	22:14	21:11	19:47	27	08:27 (3)	18:24	16:10	20	09:34 (2)	15:35		
15	04:44	05:45	06:51		07:58 (3)	07:55	08:06		09:14 (2)	09:00		
	22:13	21:09	19:45	29	08:27 (3)	18:21	16:08	21	09:35 (2)	15:35		
16	04:45	05:47	06:53		07:57 (3)	07:57	08:08		09:14 (2)	09:01		
	22:11	21:06	19:42	30	08:27 (3)	18:19	16:06	21	09:35 (2)	15:35		
17	04:47	05:49	06:55		07:57 (3)	08:00	08:10		09:14 (2)	09:02		
	22:10	21:03	19:39	31	08:28 (3)	18:16	16:04	22	09:36 (2)	15:35		
18	04:49	05:51	06:57		07:57 (3)	08:02	08:13		09:14 (2)	09:03		
	22:08	21:01	19:36	31	08:28 (3)	18:13	16:02	22	09:36 (2)	15:35		
19	04:50	05:53	06:59		07:56 (3)	08:04	08:15		09:14 (2)	09:03		
	22:06	20:58	19:33	32	08:28 (3)	18:11	16:01	23	09:37 (2)	15:36		
20	04:52	05:56	07:01		07:55 (3)	08:06	08:17		09:14 (2)	09:04		
	22:05	20:56	19:31	33	08:28 (3)	18:08	15:59	23	09:37 (2)	15:36		
21	04:54	05:58	07:03		07:55 (3)	08:09	08:19		09:15 (2)	09:05		
	22:03	20:53	19:28	32	08:27 (3)	18:06	15:57	23	09:38 (2)	15:36		
22	04:56	06:00	07:06		07:55 (3)	08:11	08:21		09:15 (2)	09:05		
	22:01	20:51	19:25	31	08:26 (3)	18:03	15:56	22	09:37 (2)	15:37		
23	04:58	06:02	07:08		07:55 (3)	08:13	08:23		09:16 (2)	09:06		
	22:00	20:48	19:22	30	08:25 (3)	18:00	15:54	22	09:38 (2)	15:37		
24	05:00	06:04	07:10		07:55 (3)	08:15	08:25		09:16 (2)	09:06		
	21:58	20:45	19:19	29	08:24 (3)	17:58	15:53	21	09:37 (2)	15:38		
25	05:01	06:06	07:12		07:56 (3)	07:18	08:27		09:16 (2)	09:07		
	21:56	20:43	19:16	27	08:23 (3)	16:55	15:51	21	09:37 (2)	15:39		
26	05:03	06:08	07:14		07:56 (3)	07:20	08:30		09:18 (2)	09:07		
	21:54	20:40	19:14	25	08:21 (3)	16:53	15:50	20	09:38 (2)	15:39		
27	05:05	06:10	07:16		07:58 (3)	07:22	08:32		09:18 (2)	09:07		
	21:52	20:37	19:11	22	08:20 (3)	16:50	15:48	19	09:37 (2)	15:40		
28	05:07	06:13	07:18		08:00 (3)	07:25	08:33		09:19 (2)	09:07		
	21:50	20:34	19:08	18	08:18 (3)	16:48	15:47	17	09:36 (2)	15:41		
29	05:09	06:15	07:20		08:02 (3)	07:27	08:35		09:20 (2)	09:07		
	21:48	20:32	19:05	13	08:15 (3)	16:45	15:46	16	09:36 (2)	15:42		
30	05:11	06:17	07:23			07:29	08:37		09:22 (2)	09:07		
	21:46	20:29	19:02			16:43	15:45	14	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				518				407			33	
Sun reduction				0.43				0.15			0.13	
Oper. time red.				0.93				0.93			0.93	
Wind dir. red.				0.62				0.63			0.63	
Total reduction				0.25				0.09			0.07	
Total, real				128				37			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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		09:50 (2)		07:20		06:54	07:28 (4)	05:34	04:33
	15:46		16:46	15	10:05 (2)		17:52		20:01	57	08:29 (3)	21:08	22:09
2	09:06		08:25		09:52 (2)		07:17		06:51		07:27 (4)	05:31	04:32
	15:47		16:49	11	10:03 (2)		17:54		20:04	58	08:28 (3)	21:10	22:10
3	09:06		08:23		09:57 (2)		07:14		06:48		07:27 (4)	05:29	04:31
	15:48		16:51	2	09:59 (2)		17:57		20:06	56	08:27 (3)	21:12	22:12
4	09:06		08:21				07:12		06:46		07:28 (4)	05:27	04:30
	15:50		16:53				17:59		20:08	55	08:27 (3)	21:14	22:13
5	09:05		08:19				07:09		06:43		07:27 (4)	05:24	04:29
	15:51		16:56				18:01		20:10	54	08:26 (3)	21:16	22:15
6	09:04		08:17				07:06		06:40		07:28 (4)	05:22	04:28
	15:53		16:58				18:04		20:12	48	08:24 (3)	21:19	22:16
7	09:04		08:14				07:04		06:37		07:29 (4)	05:20	04:27
	15:54		17:00				18:06		20:15	46	08:24 (3)	21:21	22:17
8	09:03		08:12				07:01		06:35		07:30 (4)	05:17	04:26
	15:56	7	09:53 (2)		17:03				18:08		20:17	38	08:21 (3)	21:23	22:18
9	09:02		09:45 (2)		08:10				06:58		06:32		07:32 (4)	05:15	04:25
	15:58	10	09:55 (2)		17:05				18:10		20:19	31	08:19 (3)	21:25	22:19
10	09:01		09:45 (2)		08:08				06:55		06:29		08:00 (3)	05:13	04:24
	15:59	12	09:57 (2)		17:08				18:13		20:21	16	08:16 (3)	21:27	22:20
11	09:00		09:44 (2)		08:05				06:53		06:26		08:04 (3)	05:11	04:24
	16:01	15	09:59 (2)		17:10				18:15		20:23	8	08:12 (3)	21:29	22:21
12	08:59		09:43 (2)		08:03				06:50		06:24			05:08	04:23
	16:03	17	10:00 (2)		17:12				18:17		20:26			21:31	22:22
13	08:58		09:43 (2)		08:00				06:47		06:21			05:06	04:23
	16:05	18	10:01 (2)		17:15				18:19		20:28			21:34	22:23
14	08:57		09:43 (2)		07:58				06:44		06:18			05:04	04:22
	16:07	19	10:02 (2)		17:17				18:22		20:30			21:36	22:24
15	08:56		09:43 (2)		07:56				06:41		06:15			05:02	04:22
	16:09	20	10:03 (2)		17:19				18:24		20:32			21:38	22:25
16	08:55		09:42 (2)		07:53				06:39		06:13			05:00	04:21
	16:11	22	10:04 (2)		17:22				18:26		20:34			21:40	22:25
17	08:53		09:42 (2)		07:51				06:36		06:10			04:58	04:21
	16:13	22	10:04 (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	23	10:06 (2)		17:27				18:30		20:39			21:44	22:27
19	08:50		09:42 (2)		07:46				06:30		06:05			04:54	04:21
	16:17	24	10:06 (2)		17:29				18:33		20:41			21:46	22:27
20	08:49		09:42 (2)		07:43				06:28		07:10 (3)		06:02	04:52	04:21
	16:19	25	10:07 (2)		17:31				18:35	12	07:22 (3)		20:43	21:48	22:27
21	08:47		09:42 (2)		07:41				06:25		07:06 (3)		05:59	04:50	04:21
	16:21	25	10:07 (2)		17:34				18:37	18	07:24 (3)		20:45	21:50	22:28
22	08:46		09:42 (2)		07:38				06:22		07:03 (3)		05:57	04:48	04:21
	16:23	25	10:07 (2)		17:36				18:39	23	07:26 (3)		20:48	21:52	22:28
23	08:44		09:43 (2)		07:35				06:19		07:01 (3)		05:54	04:47	04:22
	16:26	25	10:08 (2)		17:38				18:42	26	07:27 (3)		20:50	21:53	22:28
24	08:42		09:43 (2)		07:33				06:16		06:59 (3)		05:52	04:45	04:22
	16:28	25	10:08 (2)		17:41				18:44	29	07:28 (3)		20:52	21:55	22:28
25	08:41		09:43 (2)		07:30				06:14		06:59 (3)		05:49	04:43	04:22
	16:30	25	10:08 (2)		17:43				18:46	31	07:30 (3)		20:54	21:57	22:28
26	08:39		09:44 (2)		07:28				06:11		06:57 (3)		05:46	04:42	04:23
	16:32	24	10:08 (2)		17:45				18:48	33	07:30 (3)		20:57	21:59	22:28
27	08:37		09:45 (2)		07:25				06:08		06:36 (4)		05:44	04:40	04:23
	16:35	23	10:08 (2)		17:48				18:50	44	07:30 (3)		20:59	22:01	22:28
28	08:35		09:46 (2)		07:22				06:05		06:33 (4)		05:41	04:39	04:24
	16:37	22	10:08 (2)		17:50				18:53	50	07:30 (3)		21:01	22:02	22:27
29	08:33		09:46 (2)						07:02		07:31 (4)		05:39	04:37	04:25
	16:39	21	10:07 (2)						19:55	54	08:30 (3)		21:03	22:04	22:27
30	08:31		09:47 (2)						07:00		07:30 (4)		05:36	04:36	04:25
	16:42	20	10:07 (2)						19:57	55	08:30 (3)		21:05	22:06	22:27
31	08:29		09:48 (2)						06:57		07:29 (4)			04:34	
	16:44	18	10:06 (2)						19:59	58	08:30 (3)			22:07	
Potential sun hours	227		262		365		429		515	539					
Total, worst case	487		28		433		467								
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		0.63		0.64		0.64								
Total reduction	0.08		0.13		0.22		0.27								
Total, real	37		4		94		127								

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		08:03 (3)	07:25	07:34			08:39		09:26 (2)
	22:26	21:42	20:24	8	08:11 (3)	19:00	16:38			15:44	15	09:41 (2)
2	04:27	05:17	06:23		07:59 (3)	07:27	07:36			08:41		09:28 (2)
	22:26	21:39	20:21	16	08:15 (3)	18:57	16:36			15:42	12	09:40 (2)
3	04:28	05:19	06:25		07:30 (4)	07:29	07:38			08:43		09:29 (2)
	22:25	21:37	20:18	31	08:17 (3)	18:54	16:34			15:41	11	09:40 (2)
4	04:29	05:22	06:27		07:27 (4)	07:31	07:41			08:44		09:31 (2)
	22:24	21:35	20:15	38	08:18 (3)	18:51	16:31			15:41	7	09:38 (2)
5	04:30	05:24	06:30		07:25 (4)	07:33	07:43			08:46		
	22:24	21:33	20:13	46	08:20 (3)	18:49	16:29			15:40		
6	04:31	05:26	06:32		07:24 (4)	07:35	07:45			08:48		
	22:23	21:30	20:10	48	08:20 (3)	18:46	16:27			15:39		
7	04:32	05:28	06:34		07:23 (4)	07:38	07:48			08:49		
	22:22	21:28	20:07	53	08:21 (3)	18:43	16:25			15:38		
8	04:34	05:30	06:36		07:22 (4)	07:40	07:50		09:26 (2)	08:51		
	22:21	21:26	20:04	55	08:21 (3)	18:40	16:22	4	09:30 (2)	15:38		
9	04:35	05:32	06:38		07:21 (4)	07:42	07:52		09:22 (2)	08:52		
	22:20	21:23	20:01	57	08:21 (3)	18:38	16:20	12	09:34 (2)	15:37		
10	04:36	05:34	06:40		07:21 (4)	07:44	07:55		09:21 (2)	08:54		
	22:19	21:21	19:59	57	08:22 (3)	18:35	16:18	15	09:36 (2)	15:37		
11	04:38	05:36	06:42		07:20 (4)	07:46	07:57		09:19 (2)	08:55		
	22:18	21:18	19:56	58	08:21 (3)	18:32	16:16	18	09:37 (2)	15:36		
12	04:39	05:38	06:44		07:20 (4)	07:49	07:59		09:19 (2)	08:56		
	22:17	21:16	19:53	58	08:21 (3)	18:29	16:14	19	09:38 (2)	15:36		
13	04:41	05:41	06:47		07:21 (4)	07:51	08:01		09:17 (2)	08:58		
	22:15	21:14	19:50	56	08:21 (3)	18:27	16:12	22	09:39 (2)	15:36		
14	04:42	05:43	06:49		07:21 (4)	07:53	08:04		09:18 (2)	08:59		
	22:14	21:11	19:47	54	08:20 (3)	18:24	16:10	22	09:40 (2)	15:35		
15	04:44	05:45	06:51		07:22 (4)	07:55	08:06		09:18 (2)	09:00		
	22:13	21:09	19:45	50	08:19 (3)	18:21	16:08	23	09:41 (2)	15:35		
16	04:45	05:47	06:53		07:24 (4)	07:57	08:08		09:17 (2)	09:01		
	22:11	21:06	19:42	45	08:19 (3)	18:19	16:06	24	09:41 (2)	15:35		
17	04:47	05:49	06:55		07:28 (4)	08:00	08:10		09:17 (2)	09:02		
	22:10	21:03	19:39	37	08:19 (3)	18:16	16:04	25	09:42 (2)	15:35		
18	04:49	05:51	06:57		07:46 (3)	08:02	08:13		09:17 (2)	09:03		
	22:08	21:01	19:36	31	08:17 (3)	18:13	16:02	25	09:42 (2)	15:35		
19	04:50	05:53	06:59		07:47 (3)	08:04	08:15		09:18 (2)	09:03		
	22:06	20:58	19:33	29	08:16 (3)	18:11	16:01	25	09:43 (2)	15:36		
20	04:52	05:56	07:01		07:47 (3)	08:06	08:17		09:17 (2)	09:04		
	22:05	20:56	19:31	27	08:14 (3)	18:08	15:59	25	09:42 (2)	15:36		
21	04:54	05:58	07:03		07:48 (3)	08:09	08:19		09:18 (2)	09:05		
	22:03	20:53	19:28	24	08:12 (3)	18:06	15:57	25	09:43 (2)	15:36		
22	04:56	06:00	07:06		07:50 (3)	08:11	08:21		09:18 (2)	09:05		
	22:01	20:51	19:25	20	08:10 (3)	18:03	15:56	25	09:43 (2)	15:37		
23	04:58	06:02	07:08		07:52 (3)	08:13	08:23		09:19 (2)	09:06		
	22:00	20:48	19:22	14	08:06 (3)	18:00	15:54	24	09:43 (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	23	09:43 (2)	15:38		
25	05:01	06:06	07:12			07:18	08:27		09:20 (2)	09:07		
	21:56	20:43	19:16			16:55	15:51	22	09:42 (2)	15:39		
26	05:03	06:08	07:14			07:20	08:30		09:21 (2)	09:07		
	21:54	20:40	19:14			16:53	15:50	22	09:43 (2)	15:39		
27	05:05	06:10	07:16			07:22	08:32		09:22 (2)	09:07		
	21:52	20:37	19:11			16:50	15:48	20	09:42 (2)	15:40		
28	05:07	06:13	07:18			07:25	08:33		09:23 (2)	09:07		
	21:50	20:34	19:08			16:48	15:47	19	09:42 (2)	15:41		
29	05:09	06:15	07:20			07:27	08:35		09:23 (2)	09:07		
	21:48	20:32	19:05			16:45	15:46	18	09:41 (2)	15:42		
30	05:11	06:17	07:23			07:29	08:37		09:25 (2)	09:07		
	21:46	20:29	19:02			16:43	15:45	17	09:42 (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				912				474			45	
Sun reduction				0.43				0.15			0.13	
Oper. time red.				0.93				0.93			0.93	
Wind dir. red.				0.64				0.63			0.63	
Total reduction				0.25				0.09			0.07	
Total, real				231				43			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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		07:34	08:39
	15:46	16:46	17:52		20:01	21:08	22:09	22:26	21:42	20:24		19:00	24	08:39 (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	24	08:38 (3)	16:36	15:42
3	09:06	08:23	07:14		07:45 (3)	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	9	07:54 (3)	20:06	21:12	22:12	22:25	21:37	20:18		18:54	25	08:39 (3)	16:34	15:41
4	09:06	08:21	07:12		07:43 (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	14	07:57 (3)	20:08	21:14	22:13	22:25	21:35	20:15		18:51	24	08:38 (3)	16:31	15:41
5	09:05	08:19	07:09		07:41 (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	07:59 (3)	20:10	21:16	22:15	22:24	21:33	20:13		18:49	24	08:38 (3)	16:29	15:40
6	09:04	08:17	07:06		07:39 (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	20	07:59 (3)	20:12	21:19	22:16	22:23	21:30	20:10		18:46	23	08:37 (3)	16:27	15:39
7	09:04	08:14	07:04		07:38 (3)	06:37	05:20	04:27	04:32	05:28	06:34		07:38		08:15 (3)	07:48	08:49
	15:54	17:00	18:06	22	08:00 (3)	20:15	21:21	22:17	22:22	21:28	20:07		18:43	21	08:36 (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		08:15 (3)	07:50	08:51
	15:56	17:03	18:08	23	08:00 (3)	20:17	21:23	22:18	22:21	21:26	20:04		18:40	20	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		08:16 (3)	07:52	08:52
	15:58	17:05	18:10	24	08:01 (3)	20:19	21:25	22:19	22:20	21:23	20:01		18:38	17	08:33 (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		08:18 (3)	07:55	08:54
	15:59	17:08	18:13	25	08:01 (3)	20:21	21:27	22:21	22:19	21:21	19:59		18:35	12	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		08:23 (3)	07:57	08:55
	16:01	17:10	18:15	24	08:00 (3)	20:23	21:29	22:22	22:18	21:19	19:56		18:32	3	08:26 (3)	16:16	15:36
12	08:59	08:03	06:50		07:36 (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	24	08:00 (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		07:36 (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	23	07:59 (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		07:37 (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	22	07:59 (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		07:37 (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	20	07:57 (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		07:38 (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	17	07:55 (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		07:40 (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	13	07:53 (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		07:43 (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	5	07:48 (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			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			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		08:15			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	05:01	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			05:46	04:42	04:23	05:03	06:08	07:14	08:23 (3)	07:20			08:30	09:07
	16:32	17:45	18:48			20:57	21:59	22:28	21:54	20:40	19:14	11 08:34 (3)	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	08:21 (3)	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 08:37 (3)	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	08:19 (3)	07:25			08:34	09:07
	16:37	17:50	18:53			21:01	22:02	22:28	21:50	20:35	19:08	19 08:38 (3)	16:48			15:47	15:41
29	08:33		07:02			05:39	04:37	04:25	05:09	06:15	07:20	08:17 (3)	07:27			08:35	09:07
	16:39		19:55			21:03	22:04	22:27	21:48	20:32	19:05	21 08:38 (3)	16:45			15:46	15:42
30	08:31		07:00			05:36	04:36	04:25	05:11	06:17	07:23	08:16 (3)	07:29			08:37	09:07
	16:42		19:57			21:05	22:06	22:27	21:46	20:29	19:02	23 08:39 (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				303							90		217		
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				61							21		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)

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Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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	15 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	21:29 (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	14 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	21:30 (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	12 21:42 (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	21:31 (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	11 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	21:32 (8)	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14		22:23	9 21:41 (8)	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:22	04:27	21:28 (8)	04:31	21:34 (8)	05:25	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	4 21:32 (8)	22:22	6 21:40 (8)	21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	21:26 (8)	04:32		05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	8 21:34 (8)	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	21:26 (8)	04:33		05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	10 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	21:25 (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	12 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	21:25 (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	13 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	21:24 (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	14 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	21:24 (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	16 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	21:23 (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	17 21:40 (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	21:23 (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	17 21:40 (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	21:23 (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	18 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	21:24 (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	18 21:42 (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	21:24 (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	18 21:42 (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	21:24 (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	18 21:42 (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	21:24 (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	19 21:43 (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	21:24 (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	19 21:43 (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	21:24 (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	19 21:43 (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	21:24 (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	19 21:43 (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	21:25 (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	19 21:44 (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	21:25 (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	19 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	21:25 (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	18 21:43 (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	21:26 (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	18 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	21:25 (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	18 21:43 (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	21:26 (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	18 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	21:27 (8)	05:09		06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	17 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	21:27 (8)	05:11		06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	16 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						402		67						
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						126		22						

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
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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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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
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	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	04:27	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
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	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
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	16:09	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	15:35
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	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	15:35
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	16:44		19:59		22:07		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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
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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
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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
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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
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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
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	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
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	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
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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
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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	15:56	17:02	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
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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
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	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
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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												
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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

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Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	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
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Total, worst case												
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

SHADOW - Calendar

Shadow receptor: AO - Jaunarkadijas C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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	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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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	16:15	17:26	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
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	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
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	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
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	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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
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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
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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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	10:09 (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 52	12:38 (3)	16:46 29	09:50 (1)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38 18	09:15 (1)	15:43 47	12:19 (3)
2	09:06	10:09 (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 52	12:38 (3)	16:48 29	09:50 (1)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36 21	09:16 (1)	15:42 50	12:21 (3)
3	09:06	10:09 (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 52	12:38 (3)	16:51 28	09:50 (1)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33 24	09:18 (1)	15:41 50	12:22 (3)
4	09:06	10:09 (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	09:54 (4)
	15:50 52	12:38 (3)	16:53 28	09:50 (1)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31 25	09:18 (1)	15:40 51	12:23 (3)
5	09:05	10:10 (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	09:55 (4)
	15:51 52	12:39 (3)	16:56 28	09:50 (1)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29 26	09:19 (1)	15:40 51	12:24 (3)
6	09:04	10:10 (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	09:56 (4)
	15:53 51	12:39 (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 27	09:19 (1)	15:39 52	12:25 (3)
7	09:04	10:10 (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	09:56 (4)
	15:54 51	12:39 (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 28	09:20 (1)	15:38 52	12:25 (3)
8	09:03	10:09 (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	09:57 (4)
	15:56 51	12:38 (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 29	09:21 (1)	15:37 52	12:26 (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	09:58 (4)
	15:58 50	12:38 (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 29	09:21 (1)	15:37 52	12:27 (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	09:58 (4)
	15:59 50	12:38 (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 29	09:21 (1)	15:36 52	12:27 (3)
11	09:00	10:10 (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	09:59 (4)
	16:01 48	12:37 (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 40	10:07 (4)	15:36 52	12:28 (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	10:00 (4)
	16:03 46	12:36 (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 45	10:10 (4)	15:36 51	12:28 (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	10:00 (4)
	16:05 43	12:35 (3)	17:15		18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12 47	10:11 (4)	15:35 52	12:29 (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	10:02 (4)
	16:07 40	12:33 (3)	17:17		18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10 50	10:13 (4)	15:35 51	12:30 (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	10:02 (4)
	16:09 31	10:42 (4)	17:19		18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08 51	10:15 (4)	15:35 52	12:31 (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	10:03 (4)
	16:11 31	10:42 (4)	17:22		18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06 51	10:15 (4)	15:35 50	12:31 (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	10:03 (4)
	16:13 31	10:42 (4)	17:24		18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04 50	10:16 (4)	15:35 51	12:32 (3)
18	08:52	10:12 (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	10:04 (4)
	16:15 31	10:43 (4)	17:26		18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02 51	10:17 (4)	15:35 51	12:32 (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	10:04 (4)
	16:17 39	10:43 (4)	17:29		18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01 50	10:18 (4)	15:35 50	12:32 (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	10:05 (4)
	16:19 43	10:43 (4)	17:31		18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59 47	10:18 (4)	15:36 50	12:33 (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	10:06 (4)
	16:21 46	10:43 (4)	17:33		18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57 46	10:19 (4)	15:36 50	12:34 (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	10:06 (4)
	16:23 47	10:43 (4)	17:36		18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:56 43	10:19 (4)	15:37 50	12:34 (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	10:07 (4)
	16:25 50	10:43 (4)	17:38		18:41	20:50	21:53	22:28	22:00	20:48	19:22	18:00	15:54 39	10:20 (4)	15:37 50	12:35 (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	10:07 (4)
	16:28 51	10:43 (4)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52 31	10:20 (4)	15:38 50	12:35 (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	10:07 (4)
	16:30 50	10:42 (4)	17:43		18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51 31	10:20 (4)	15:38 50	12:35 (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	10:07 (4)
	16:32 50	10:42 (4)	17:45		18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50 31	10:21 (4)	15:39 50	12:35 (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	10:08 (4)
	16:34 51	10:42 (4)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48 31	10:21 (4)	15:40 51	12:36 (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	09:51 (4)	09:07	10:08 (4)
	16:37 49	10:41 (4)	17:50		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47 39	12:13 (3)	15:41 50	12:36 (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	10:08 (4)
	16:39 47	10:39 (4)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46 43	12:15 (3)	15:42 51	12:37 (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 10:09 (4)
	16:41 44	10:38 (4)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43 8	09:10 (1)	15:44 46	12:18 (3)	15:43 51 12:38 (3)
31	08:29	09:21 (1)			06:57		04:34		05:13	06:19		07:31	08:58 (1)			09:07 10:08 (4)
	16:44 40	10:36 (4)			19:59		22:07		21:44	20:26		16:40 15	09:13 (1)			15:44 51 12:37 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321		241		207
Total, worst case	1421		274									23		1118		1573
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.	0.62		0.64									0.64		0.62		0.64
Total reduction	0.08		0.13									0.18		0.09		0.08
Total, real	108		36									4		100		118

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		
	15:46			16:46	32	10:07 (2)	17:52			20:01			21:08	57	07:21 (3)	22:09		
2	09:06			08:25		09:35 (2)	07:17			06:51			05:31		06:01 (1)	04:32		
	15:47			16:49	31	10:06 (2)	17:54			20:04			21:10	61	07:22 (3)	22:10		
3	09:06			08:23		09:35 (2)	07:14			06:48			05:29		05:59 (1)	04:31		
	15:48			16:51	32	10:07 (2)	17:57			20:06			21:12	62	07:21 (3)	22:12		
4	09:05			08:21		09:36 (2)	07:12			06:46			05:27		05:59 (1)	04:30		
	15:50			16:53	31	10:07 (2)	17:59			20:08			21:14	62	07:21 (3)	22:13		
5	09:05			08:19		09:36 (2)	07:09			06:43			05:24		05:59 (1)	04:29		
	15:51			16:56	30	10:06 (2)	18:01			20:10			21:16	62	07:21 (3)	22:15		
6	09:04			08:17		09:37 (2)	07:06			06:40			05:22		06:00 (1)	04:28		
	15:53			16:58	29	10:06 (2)	18:04			20:12			21:19	61	07:21 (3)	22:16		
7	09:04			08:14		09:37 (2)	07:04			06:37			05:20		06:00 (1)	04:27		
	15:54			17:00	28	10:05 (2)	18:06			20:15			21:21	60	07:21 (3)	22:17		
8	09:03			08:12		09:38 (2)	07:01			06:35			05:17		06:01 (1)	04:26		
	15:56			17:03	27	10:05 (2)	18:08			20:17			21:23	58	07:21 (3)	22:18		
9	09:02			08:10		09:38 (2)	06:58			06:32			05:15		06:02 (1)	04:25		
	15:58			17:05	26	10:04 (2)	18:10			20:19			21:25	55	07:21 (3)	22:19		
10	09:01			08:08		09:40 (2)	06:55			06:29			05:13		06:03 (1)	04:24		
	15:59			17:08	23	10:03 (2)	18:13			20:21			21:27	52	07:20 (3)	22:20		
11	09:00			08:05		09:41 (2)	06:53			06:26			05:11		06:06 (1)	04:24		
	16:01			17:10	20	10:01 (2)	18:15			20:23			21:29	46	07:20 (3)	22:21		
12	08:59			08:03		09:44 (2)	06:50		07:20 (5)	06:24			05:08		06:38 (3)	04:23		
	16:03			17:12	16	10:00 (2)	18:17	8	07:28 (5)	20:26			21:31	41	07:19 (3)	22:22		
13	08:58			08:00		09:46 (2)	06:47		07:17 (5)	06:21			05:06		06:39 (3)	04:23		
	16:05			17:15	10	09:56 (2)	18:19	14	07:31 (5)	20:28			21:34	40	07:19 (3)	22:23		
14	08:57			07:58			06:44		07:15 (5)	06:18		06:49 (4)	05:04		06:39 (3)	04:22		
	16:07			17:17			18:22	18	07:33 (5)	20:30	11	07:00 (4)	21:36	39	07:18 (3)	22:24		
15	08:56			07:56			06:41		07:14 (5)	06:15		06:46 (4)	05:02		06:39 (3)	04:22		
	16:09			17:19			18:24	20	07:34 (5)	20:32	16	07:02 (4)	21:38	38	07:17 (3)	22:25		
16	08:55			07:53			06:39		07:12 (5)	06:13		06:45 (4)	05:00		06:40 (3)	04:22		
	16:11			17:22			18:26	22	07:34 (5)	20:34	18	07:03 (4)	21:40	36	07:16 (3)	22:25		
17	08:53			07:51			06:36		07:11 (5)	06:10		06:43 (4)	04:58		06:40 (3)	04:21		
	16:13			17:24			18:28	24	07:35 (5)	20:37	21	07:04 (4)	21:42	35	07:15 (3)	22:26		
18	08:52		09:43 (2)	07:48			06:33		07:10 (5)	06:07		06:41 (4)	04:56		06:42 (3)	04:21		
	16:15	9	09:52 (2)	17:26			18:30	25	07:35 (5)	20:39	23	07:04 (4)	21:44	33	07:15 (3)	22:26		
19	08:50		09:41 (2)	07:46			06:30		07:10 (5)	06:05		06:41 (4)	04:54		06:42 (3)	04:21		
	16:17	14	09:55 (2)	17:29			18:33	24	07:34 (5)	20:41	27	07:08 (3)	21:46	32	07:14 (3)	22:27		
20	08:49		09:39 (2)	07:43			06:28		07:10 (5)	06:02		06:40 (4)	04:52		06:42 (3)	04:21		
	16:19	17	09:56 (2)	17:31			18:35	25	07:35 (5)	20:43	31	07:11 (3)	21:48	31	07:13 (3)	22:27		
21	08:47		09:38 (2)	07:41			06:25		07:10 (5)	05:59		06:40 (4)	04:50		06:44 (3)	04:21		
	16:21	20	09:58 (2)	17:34			18:37	24	07:34 (5)	20:45	34	07:14 (3)	21:50	29	07:13 (3)	22:28		
22	08:46		09:37 (2)	07:38			06:22		07:10 (5)	05:57		06:39 (4)	04:48		06:45 (3)	04:21		
	16:23	22	09:59 (2)	17:36			18:39	23	07:33 (5)	20:48	36	07:15 (3)	21:52	26	07:11 (3)	22:28		
23	08:44		09:36 (2)	07:35			06:19		07:10 (5)	05:54		06:39 (4)	04:47		06:46 (3)	04:22		
	16:26	24	10:00 (2)	17:38			18:42	22	07:32 (5)	20:50	38	07:17 (3)	21:53	24	07:10 (3)	22:28		
24	08:42		09:36 (2)	07:33			06:16		07:10 (5)	05:52		06:39 (4)	04:45		06:47 (3)	04:22		
	16:28	25	10:01 (2)	17:41			18:44	20	07:30 (5)	20:52	38	07:17 (3)	21:55	22	07:09 (3)	22:28		
25	08:41		09:36 (2)	07:30			06:14		07:11 (5)	05:49		06:40 (4)	04:43		06:49 (3)	04:22		
	16:30	27	10:03 (2)	17:43			18:46	17	07:28 (5)	20:54	38	07:18 (3)	21:57	19	07:08 (3)	22:28		
26	08:39		09:35 (2)	07:28			06:11		07:14 (5)	05:46		06:40 (4)	04:42		06:51 (3)	04:23		
	16:32	28	10:03 (2)	17:45			18:48	13	07:27 (5)	20:57	40	07:20 (3)	21:59	15	07:06 (3)	22:28		
27	08:37		09:35 (2)	07:25			06:08		07:17 (5)	05:44		06:12 (1)	04:40		06:53 (3)	04:23		
	16:35	29	10:04 (2)	17:47			18:50	6	07:23 (5)	20:59	41	07:20 (3)	22:01	10	07:03 (3)	22:28		
28	08:35		09:35 (2)	07:22			06:05			05:41		06:10 (1)	04:39			04:24		
	16:37	30	10:05 (2)	17:50			18:53			21:01	45	07:20 (3)	22:02			22:27		
29	08:33		09:34 (2)				07:02			05:39		06:08 (1)	04:37			04:25		
	16:39	31	10:05 (2)				19:55			21:03	50	07:21 (3)	22:04			22:27		
30	08:31		09:34 (2)				07:00			05:36		06:05 (1)	04:36			04:25		
	16:42	32	10:06 (2)				19:57			21:05	55	07:21 (3)	22:06			22:27		
31	08:29		09:35 (2)				06:57						04:34					
	16:44	31	10:06 (2)				19:59						22:07					
Potential sun hours	227			262			365			429			515			539		
Total, worst case		339			335			305			562			1106				
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.		0.63			0.63			0.62			0.64			0.64				
Total reduction		0.08			0.13			0.21			0.28			0.35				
Total, real		26			43			64			155			382				

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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			05:15		06:48 (3)	06:21			07:25		07:58 (5)	07:34		09:09 (2)	08:39	
	22:26			21:42	42	07:30 (3)	20:24			19:00	11	08:09 (5)	16:38	24	09:33 (2)	15:44	
2	04:27			05:17		06:15 (1)	06:23			07:27			07:36		09:08 (2)	08:41	
	22:26			21:39	49	07:30 (3)	20:21			18:57			16:36	26	09:34 (2)	15:42	
3	04:28			05:19		06:13 (1)	06:25			07:29			07:38		09:07 (2)	08:43	
	22:25			21:37	54	07:31 (3)	20:18			18:54			16:34	28	09:35 (2)	15:41	
4	04:29			05:22		06:11 (1)	06:27			07:31			07:41		09:06 (2)	08:44	
	22:24			21:35	56	07:30 (3)	20:15			18:51			16:31	29	09:35 (2)	15:41	
5	04:30			05:24		06:10 (1)	06:30			07:33			07:43		09:06 (2)	08:46	
	22:24			21:33	58	07:30 (3)	20:13			18:49			16:29	30	09:36 (2)	15:40	
6	04:31			05:26		06:09 (1)	06:32			07:35			07:45		09:05 (2)	08:48	
	22:23			21:30	61	07:30 (3)	20:10			18:46			16:27	31	09:36 (2)	15:39	
7	04:32			05:28		06:09 (1)	06:34			07:38			07:48		09:06 (2)	08:49	
	22:22			21:28	61	07:30 (3)	20:07			18:43			16:25	31	09:37 (2)	15:38	
8	04:34			05:30		06:08 (1)	06:36			07:40			07:50		09:06 (2)	08:51	
	22:21			21:26	62	07:30 (3)	20:04			18:40			16:22	32	09:38 (2)	15:38	
9	04:35			05:32		06:08 (1)	06:38			07:42			07:52		09:05 (2)	08:52	
	22:20			21:23	62	07:30 (3)	20:01			18:38			16:20	32	09:37 (2)	15:37	
10	04:36			05:34		06:08 (1)	06:40			07:44			07:54		09:06 (2)	08:54	
	22:19			21:21	62	07:30 (3)	19:59			18:35			16:18	32	09:38 (2)	15:37	
11	04:38			05:36		06:10 (1)	06:42			07:46			07:57		09:06 (2)	08:55	
	22:18			21:18	59	07:30 (3)	19:56			18:32			16:16	31	09:37 (2)	15:36	
12	04:39			05:38		06:12 (1)	06:44			07:49			07:59		09:06 (2)	08:56	
	22:16			21:16	56	07:29 (3)	19:53			18:29			16:14	31	09:37 (2)	15:36	
13	04:41			05:41		06:14 (1)	06:46			07:51			08:01		09:06 (2)	08:58	
	22:15			21:14	53	07:29 (3)	19:50			18:27			16:12	31	09:37 (2)	15:36	
14	04:42			05:43		06:16 (1)	06:49			07:53			08:04		09:07 (2)	08:59	
	22:14			21:11	49	07:28 (3)	19:47			18:24			16:10	30	09:37 (2)	15:35	
15	04:44			05:45		06:18 (1)	06:51			07:55			08:06		09:08 (2)	09:00	
	22:12			21:09	44	07:28 (3)	19:45			18:21			16:08	29	09:37 (2)	15:35	
16	04:45		07:05 (3)	05:47		06:48 (4)	06:53		08:07 (5)	07:57			08:08		09:08 (2)	09:01	
	22:11	6	07:11 (3)	21:06	39	07:27 (3)	19:42	3	08:10 (5)	18:19			16:06	28	09:36 (2)	15:35	
17	04:47		07:01 (3)	05:49		06:47 (4)	06:55		08:03 (5)	08:00			08:10		09:10 (2)	09:02	
	22:10	13	07:14 (3)	21:03	39	07:26 (3)	19:39	12	08:15 (5)	18:16			16:04	26	09:36 (2)	15:35	
18	04:49		07:00 (3)	05:51		06:46 (4)	06:57		08:00 (5)	08:02			08:13		09:10 (2)	09:03	
	22:08	16	07:16 (3)	21:01	39	07:25 (3)	19:36	17	08:17 (5)	18:13			16:02	25	09:35 (2)	15:35	
19	04:50		06:58 (3)	05:53		06:45 (4)	06:59		07:58 (5)	08:04			08:15		09:11 (2)	09:03	
	22:06	20	07:18 (3)	20:58	39	07:24 (3)	19:33	20	08:18 (5)	18:11			16:01	24	09:35 (2)	15:36	
20	04:52		06:57 (3)	05:56		06:45 (4)	07:01		07:57 (5)	08:06			08:17		09:12 (2)	09:04	
	22:05	23	07:20 (3)	20:56	37	07:22 (3)	19:30	21	08:18 (5)	18:08			15:59	22	09:34 (2)	15:36	
21	04:54		06:56 (3)	05:58		06:45 (4)	07:03		07:56 (5)	08:09			08:19		09:14 (2)	09:05	
	22:03	25	07:21 (3)	20:53	35	07:20 (3)	19:28	23	08:19 (5)	18:06			15:57	20	09:34 (2)	15:36	
22	04:56		06:54 (3)	06:00		06:45 (4)	07:05		07:55 (5)	08:11			08:21		09:15 (2)	09:05	
	22:01	28	07:22 (3)	20:50	33	07:18 (3)	19:25	24	08:19 (5)	18:03			15:56	17	09:32 (2)	15:37	
23	04:58		06:54 (3)	06:02		06:45 (4)	07:08		07:54 (5)	08:13			08:23		09:17 (2)	09:06	
	21:59	29	07:23 (3)	20:48	30	07:15 (3)	19:22	24	08:18 (5)	18:00			15:54	14	09:31 (2)	15:37	
24	05:00		06:53 (3)	06:04		06:45 (4)	07:10		07:53 (5)	08:15			08:25		09:20 (2)	09:06	
	21:58	32	07:25 (3)	20:45	26	07:11 (3)	19:19	25	08:18 (5)	17:58			15:53	9	09:29 (2)	15:38	
25	05:01		06:52 (3)	06:06		06:45 (4)	07:12		07:53 (5)	07:18			08:27			09:07	
	21:56	33	07:25 (3)	20:43	23	07:08 (4)	19:16	24	08:17 (5)	16:55			15:51			15:39	
26	05:03		06:51 (3)	06:08		06:46 (4)	07:14		07:53 (5)	07:20			08:29			09:07	
	21:54	35	07:26 (3)	20:40	20	07:06 (4)	19:14	24	08:17 (5)	16:53			15:50			15:39	
27	05:05		06:51 (3)	06:10		06:47 (4)	07:16		07:54 (5)	07:22			08:31			09:07	
	21:52	36	07:27 (3)	20:37	18	07:05 (4)	19:11	23	08:17 (5)	16:50			15:48			15:40	
28	05:07		06:51 (3)	06:13		06:48 (4)	07:18		07:54 (5)	07:25			08:33			09:07	
	21:50	37	07:28 (3)	20:34	15	07:03 (4)	19:08	21	08:15 (5)	16:48			15:47			15:41	
29	05:09		06:49 (3)	06:15		06:50 (4)	07:20		07:55 (5)	07:27		09:15 (2)	08:35			09:07	
	21:48	39	07:28 (3)	20:32	11	07:01 (4)	19:05	19	08:14 (5)	16:45	12	09:27 (2)	15:46			15:42	
30	05:11		06:49 (3)	06:17			07:23		07:56 (5)	07:29		09:13 (2)	08:37			09:07	
	21:46	39	07:28 (3)	20:29			19:02	16	08:12 (5)	16:43	17	09:30 (2)	15:45			15:43	
31	05:13		06:49 (3)	06:19						07:31		09:10 (2)				09:07	
	21:44	40	07:29 (3)	20:26						16:41	21	09:31 (2)				15:44	
Potential sun hours	538			474			386			321			241			207	
Total, worst case		451			1232			296			61			632			
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		153			400			73			11			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)

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Calculated:
17.09.2025 17:50/4.1.287

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		09:59 (10)
	15:45	24	10:36 (10)	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:23	18:59	16:38			15:43	23	10:22 (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		09:59 (10)
	15:47	24	10:36 (10)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	23	10:22 (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		09:59 (10)
	15:48	24	10:36 (10)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	24	10:23 (10)
4	09:06		10:13 (10)	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:59 (10)
	15:49	24	10:37 (10)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	24	10:23 (10)
5	09:05		10:14 (10)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		10:00 (10)
	15:51	24	10:38 (10)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	24	10:24 (10)
6	09:04		10:14 (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	24	10:38 (10)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:26			15:39	25	10:25 (10)
7	09:04		10:15 (10)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48			08:49		10:00 (10)
	15:54	24	10:39 (10)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	24	10:24 (10)
8	09:03		10:15 (10)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		10:01 (10)
	15:56	24	10:39 (10)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	24	10:25 (10)
9	09:02		10:15 (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	24	10:39 (10)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	25	10:26 (10)
10	09:01		10:16 (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	23	10:39 (10)	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:35	16:18			15:36	24	10:25 (10)
11	09:00		10:17 (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	23	10:40 (10)	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16			15:36	24	10:26 (10)
12	08:59		10:17 (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	22	10:39 (10)	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14			15:35	24	10:26 (10)
13	08:58		10:18 (10)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		10:03 (10)
	16:05	22	10:40 (10)	17:14	18:19	20:28	21:34	22:23	22:15	21:13	19:50	18:26	16:12			15:35	23	10:26 (10)
14	08:57		10:18 (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	21	10:39 (10)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	24	10:28 (10)
15	08:56		10:20 (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	20	10:40 (10)	17:19	18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08			15:35	24	10:28 (10)
16	08:55		10:20 (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	19	10:39 (10)	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06			15:35	23	10:28 (10)
17	08:53		10:21 (10)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10			09:02		10:05 (10)
	16:13	17	10:38 (10)	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04			15:35	24	10:29 (10)
18	08:52		10:23 (10)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13			09:03		10:06 (10)
	16:15	16	10:39 (10)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02			15:35	23	10:29 (10)
19	08:50		10:24 (10)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15			09:03		10:05 (10)
	16:17	13	10:37 (10)	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00			15:35	24	10:29 (10)
20	08:49		10:26 (10)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17			09:04		10:06 (10)
	16:19	10	10:36 (10)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59			15:36	24	10:30 (10)
21	08:47		10:29 (10)	07:41	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19		10:06 (10)	09:05		10:07 (10)
	16:21	4	10:33 (10)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	3	10:09 (10)	15:36	23	10:30 (10)
22	08:46			07:38	06:22	05:57	04:48	04:21	04:55	06:00	07:05	08:11	08:21		10:02 (10)	09:05		10:07 (10)
	16:23			17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	10	10:12 (10)	15:36	23	10:30 (10)
23	08:44			07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		10:01 (10)	09:06		10:08 (10)
	16:25			17:38	18:41	20:50	21:53	22:28	22:00	20:48	19:22	18:00	15:54	14	10:15 (10)	15:37	23	10:31 (10)
24	08:42			07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25		10:00 (10)	09:06		10:08 (10)
	16:28			17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	16	10:16 (10)	15:37	24	10:32 (10)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:59 (10)	09:07		10:09 (10)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	17	10:16 (10)	15:38	23	10:32 (10)
26	08:39			07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:59 (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	19	10:18 (10)	15:39	23	10:32 (10)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:59 (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	20	10:19 (10)	15:40	24	10:33 (10)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33		09:58 (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	21	10:19 (10)	15:41	24	10:34 (10)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:58 (10)	09:07		10:11 (10)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	22	10:20 (10)	15:42	23	10:34 (10)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:59 (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	22	10:21 (10)	15:43	24	10:35 (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	24	10:35 (10)
Potential sun hours	227			262	365	429	516	539	539	475	386	321	241			207		
Total, worst case		426												164			735	
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		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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	July	August	September	October		November	December
1	09:06	08:27		07:19	16:24 (13)	06:54	05:33	04:33	04:26	05:15	06:21	07:24		07:33	08:39
	15:45	16:46		17:52	17 16:41 (13)	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	16:26 (13)	06:51	05:31	04:31	04:26	05:17	06:23	07:26		07:36	08:41
	15:46	16:48		17:54	12 16:38 (13)	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	08:19		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	16:58		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	06:36	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	05:15	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	08:53
	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	17:01 (13)	07:57	08:55
	16:01	17:09		18:14		20:23	21:29	22:21	22:18	21:18	19:55	18:32	9 17:10 (13)	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	16:58 (13)	07:59	08:56
	16:02	17:12		18:17		20:25	21:31	22:22	22:16	21:16	19:53	18:29	15 17:13 (13)	16:13	15:35
13	08:58	08:00	16:28 (13)	06:47		06:20	05:06	04:22	04:40	05:40	06:46	07:50	16:56 (13)	08:01	08:57
	16:04	17:14	10 16:38 (13)	18:19		20:27	21:33	22:23	22:15	21:13	19:50	18:26	19 17:15 (13)	16:11	15:35
14	08:57	07:58	16:25 (13)	06:44		06:18	05:04	04:22	04:42	05:42	06:48	07:53	16:54 (13)	08:03	08:58
	16:06	17:17	16 16:41 (13)	18:21		20:30	21:35	22:24	22:14	21:11	19:47	18:24	21 17:15 (13)	16:09	15:35
15	08:56	07:55	16:24 (13)	06:41		06:15	05:01	04:21	04:43	05:44	06:50	07:55	16:53 (13)	08:06	09:00
	16:08	17:19	19 16:43 (13)	18:23		20:32	21:37	22:25	22:12	21:08	19:44	18:21	24 17:17 (13)	16:07	15:35
16	08:54	07:53	16:23 (13)	06:38		06:12	04:59	04:21	04:45	05:46	06:52	07:57	16:52 (13)	08:08	09:01
	16:10	17:21	21 16:44 (13)	18:26		20:34	21:39	22:25	22:11	21:06	19:41	18:18	25 17:17 (13)	16:06	15:35
17	08:53	07:50	16:21 (13)	06:36		06:10	04:57	04:21	04:46	05:49	06:55	07:59	16:51 (13)	08:10	09:01
	16:12	17:24	24 16:45 (13)	18:28		20:36	21:42	22:26	22:09	21:03	19:39	18:16	26 17:17 (13)	16:04	15:35
18	08:52	07:48	16:21 (13)	06:33		06:07	04:55	04:21	04:48	05:51	06:57	08:02	16:51 (13)	08:12	09:02
	16:14	17:26	25 16:46 (13)	18:30		20:38	21:44	22:26	22:08	21:01	19:36	18:13	27 17:18 (13)	16:02	15:35
19	08:50	07:45	16:20 (13)	06:30		06:04	04:54	04:21	04:50	05:53	06:59	08:04	16:50 (13)	08:14	09:03
	16:16	17:28	26 16:46 (13)	18:32		20:41	21:46	22:27	22:06	20:58	19:33	18:10	27 17:17 (13)	16:00	15:35
20	08:49	07:43	16:19 (13)	06:27		06:02	04:52	04:21	04:52	05:55	07:01	08:06	16:50 (13)	08:17	09:04
	16:19	17:31	27 16:46 (13)	18:35		20:43	21:47	22:27	22:05	20:55	19:30	18:08	28 17:18 (13)	16:58	15:35
21	08:47	07:40	16:20 (13)	06:24		05:59	04:50	04:21	04:53	05:57	07:03	08:08	16:50 (13)	08:19	09:04
	16:21	17:33	27 16:47 (13)	18:37		20:45	21:49	22:27	22:03	20:53	19:27	18:05	27 17:17 (13)	15:57	15:36
22	08:45	07:38	16:19 (13)	06:22		05:56	04:48	04:21	04:55	05:59	07:05	08:11	16:50 (13)	08:21	09:05
	16:23	17:35	28 16:47 (13)	18:39		20:47	21:51	22:28	22:01	20:50	19:24	18:03	26 17:16 (13)	15:55	15:36
23	08:44	07:35	16:19 (13)	06:19		05:54	04:46	04:21	04:57	06:01	07:07	08:13	16:50 (13)	08:23	09:06
	16:25	17:38	27 16:46 (13)	18:41		20:50	21:53	22:28	21:59	20:48	19:22	18:00	26 17:16 (13)	15:54	15:37
24	08:42	07:33	16:19 (13)	06:16		05:51	04:44	04:21	04:59	06:04	07:09	08:15	16:50 (13)	08:25	09:06
	16:27	17:40	27 16:46 (13)	18:43		20:52	21:55	22:28	21:57	20:45	19:19	17:57	25 17:15 (13)	15:52	15:37
25	08:40	07:30	16:20 (13)	06:13		05:49	04:43	04:22	05:01	06:06	07:11	07:17	15:52 (13)	08:27	09:06
	16:30	17:42	26 16:46 (13)	18:46		20:54	21:57	22:28	21:56	20:42	19:16	16:55	23 16:15 (13)	15:51	15:38
26	08:39	07:27	16:20 (13)	06:10		05:46	04:41	04:22	05:03	06:08	07:14	07:20	15:52 (13)	08:29	09:07
	16:32	17:45	25 16:45 (13)	18:48		20:56	21:59	22:28	21:54	20:40	19:13	16:52	21 16:13 (13)	15:49	15:39
27	08:37	07:25	16:21 (13)	06:08		05:43	04:40	04:23	05:05	06:10	07:16	07:22	15:54 (13)	08:31	09:07
	16:34	17:47	23 16:44 (13)	18:50		20:58	22:00	22:27	21:52	20:37	19:10	16:50	18 16:12 (13)	15:48	15:40
28	08:35	07:22	16:21 (13)	06:05		05:41	04:38	04:23	05:07	06:12	07:18	07:24	15:55 (13)	08:33	09:07
	16:36	17:49	21 16:42 (13)	18:52		21:01	22:02	22:27	21:50	20:34	19:08	16:47	15 16:10 (13)	15:47	15:40
29	08:33			07:02		05:38	04:37	04:24	05:09	06:14	07:20	07:27	15:59 (13)	08:35	09:07
	16:39			19:54		21:03	22:04	22:27	21:48	20:31	19:05	16:45	8 16:07 (13)	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		21:43	20:26		16:40			15:44
Potential sun hours	227	262		365		429	516	539	539	475	386	321		241	207
Total, worst case			372		29								410		
Sun reduction			0.22		0.37								0.31		
Oper. time red.			0.93		0.93								0.93		
Wind dir. red.			0.64		0.64								0.64		
Total reduction			0.13		0.22								0.18		
Total, real			49		6								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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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	9	10:56 (1)	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	7	10:55 (1)	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	4	10:54 (1)	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	22:24	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	20:13	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	18:03	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	04:26	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		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	3	10:43 (1)
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	6	10:44 (1)
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	8	10:46 (1)
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	10	10:47 (1)
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	12	10:48 (1)
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	13	10:50 (1)
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	13	10:50 (1)
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	14	10:51 (1)
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	14	10:52 (1)
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	14	10:52 (1)
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	14	10:53 (1)
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	15	10:53 (1)
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	15	10:54 (1)
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	15	10:54 (1)
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	15	10:55 (1)
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	15	10:55 (1)
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	14	10:55 (1)
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	14	10:55 (1)
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	14	10:56 (1)
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	13	10:56 (1)
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	12	10:56 (1)
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	12	10:57 (1)
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	11	10:56 (1)
Potential sun hours	227			262	365	429	515	539	539	475	386	321	241	207		
Total, worst case		20													286	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.61													0.61	
Total reduction		0.07													0.07	
Total, real		1													21	

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		15:09 (9)	07:19			06:54			05:34		18:52 (12)	04:33
	15:45			16:46	21	15:30 (9)	17:52			20:01			21:07	50	19:42 (12)	22:09
2	09:06			08:25		15:11 (9)	07:17			06:51			05:31		18:52 (12)	04:31
	15:47			16:48	19	15:30 (9)	17:54			20:03			21:09	49	19:41 (12)	22:10
3	09:06			08:23		15:13 (9)	07:14			06:48			05:29		18:52 (12)	04:30
	15:48			16:51	16	15:29 (9)	17:56			20:05			21:12	49	19:41 (12)	22:12
4	09:05			08:21		15:14 (9)	07:11			06:45			05:26		18:53 (12)	04:29
	15:49			16:53	12	15:26 (9)	17:59			20:08			21:14	48	19:41 (12)	22:13
5	09:05			08:18		15:18 (9)	07:09			06:42			05:24		18:53 (12)	04:28
	15:51			16:55	6	15:24 (9)	18:01			20:10			21:16	48	19:41 (12)	22:14
6	09:04			08:16			07:06			06:40			05:22		18:53 (12)	04:27
	15:52			16:58			18:03			20:12			21:18	46	19:39 (12)	22:16
7	09:03			08:14			07:03			06:37			05:19		18:53 (12)	04:26
	15:54			17:00			18:05			20:14			21:20	46	19:39 (12)	22:17
8	09:03			08:12			07:00			06:34			05:17		18:54 (12)	04:25
	15:56			17:02			18:08			20:16			21:23	44	19:38 (12)	22:18
9	09:02			08:10			06:58			06:31			05:15		18:55 (12)	04:25
	15:57			17:05			18:10			20:19			21:25	43	19:38 (12)	22:19
10	09:01			08:07			06:55			06:29			05:12		18:56 (12)	04:24
	15:59			17:07			18:12			20:21			21:27	41	19:37 (12)	22:20
11	09:00		15:10 (9)	08:05			06:52			06:26		19:14 (12)	05:10		18:56 (12)	04:23
	16:01	7	15:17 (9)	17:10			18:14			20:23	13	19:27 (12)	21:29	40	19:36 (12)	22:21
12	08:59		15:09 (9)	08:03			06:49			06:23		19:11 (12)	05:08		18:57 (12)	04:23
	16:03	10	15:19 (9)	17:12			18:17			20:25	21	19:32 (12)	21:31	38	19:35 (12)	22:22
13	08:58		15:08 (9)	08:00			06:47			06:20		19:07 (12)	05:06		18:58 (12)	04:22
	16:04	14	15:22 (9)	17:14			18:19			20:27	27	19:34 (12)	21:33	36	19:34 (12)	22:23
14	08:57		15:07 (9)	07:58			06:44			06:18		19:04 (12)	05:04		18:59 (12)	04:22
	16:06	16	15:23 (9)	17:17			18:21			20:30	31	19:35 (12)	21:35	34	19:33 (12)	22:24
15	08:55		15:06 (9)	07:55			06:41		17:47 (11)	06:15		19:03 (12)	05:02		19:01 (12)	04:21
	16:08	18	15:24 (9)	17:19			18:23	7	17:54 (11)	20:32	34	19:37 (12)	21:37	32	19:33 (12)	22:24
16	08:54		15:06 (9)	07:53			06:38		17:45 (11)	06:12		19:01 (12)	05:00		19:02 (12)	04:21
	16:10	20	15:26 (9)	17:21			18:26	12	17:57 (11)	20:34	37	19:38 (12)	21:39	30	19:32 (12)	22:25
17	08:53		15:06 (9)	07:50			06:36		17:43 (11)	06:10		19:00 (12)	04:58		19:04 (12)	04:21
	16:12	20	15:26 (9)	17:24			18:28	16	17:59 (11)	20:36	40	19:40 (12)	21:41	26	19:30 (12)	22:26
18	08:51		15:05 (9)	07:48			06:33		17:42 (11)	06:07		18:58 (12)	04:56		19:05 (12)	04:21
	16:14	22	15:27 (9)	17:26			18:30	19	18:01 (11)	20:38	42	19:40 (12)	21:43	23	19:28 (12)	22:26
19	08:50		15:06 (9)	07:45			06:30		17:41 (11)	06:04		18:58 (12)	04:54		19:08 (12)	04:21
	16:17	23	15:29 (9)	17:28			18:32	21	18:02 (11)	20:41	43	19:41 (12)	21:45	19	19:27 (12)	22:27
20	08:49		15:06 (9)	07:43			06:27		17:40 (11)	06:02		18:56 (12)	04:52		19:10 (12)	04:21
	16:19	23	15:29 (9)	17:31			18:35	22	18:02 (11)	20:43	45	19:41 (12)	21:47	14	19:24 (12)	22:27
21	08:47		15:05 (9)	07:40			06:24		17:39 (11)	05:59		18:55 (12)	04:50		19:15 (12)	04:21
	16:21	25	15:30 (9)	17:33			18:37	22	18:01 (11)	20:45	46	19:41 (12)	21:49	4	19:19 (12)	22:27
22	08:45		15:05 (9)	07:38			06:22		17:40 (11)	05:56		18:55 (12)	04:48			04:21
	16:23	25	15:30 (9)	17:36			18:39	22	18:02 (11)	20:47	47	19:42 (12)	21:51			22:27
23	08:44		15:05 (9)	07:35			06:19		17:40 (11)	05:54		18:54 (12)	04:46			04:21
	16:25	26	15:31 (9)	17:38			18:41	21	18:01 (11)	20:50	49	19:43 (12)	21:53			22:28
24	08:42		15:06 (9)	07:33			06:16		17:40 (11)	05:51		18:53 (12)	04:45			04:22
	16:27	25	15:31 (9)	17:40			18:43	20	18:00 (11)	20:52	49	19:42 (12)	21:55			22:28
25	08:40		15:06 (9)	07:30			06:13		17:41 (11)	05:49		18:53 (12)	04:43			04:22
	16:30	26	15:32 (9)	17:42			18:46	17	17:58 (11)	20:54	50	19:43 (12)	21:57			22:28
26	08:39		15:06 (9)	07:27			06:10		17:41 (11)	05:46		18:52 (12)	04:41			04:22
	16:32	26	15:32 (9)	17:45			18:48	15	17:56 (11)	20:56	50	19:42 (12)	21:59			22:28
27	08:37		15:07 (9)	07:25			06:08		17:44 (11)	05:44		18:52 (12)	04:40			04:23
	16:34	25	15:32 (9)	17:47			18:50	11	17:55 (11)	20:58	51	19:43 (12)	22:00			22:27
28	08:35		15:06 (9)	07:22			06:05			05:41		18:52 (12)	04:38			04:24
	16:37	25	15:31 (9)	17:49			18:52			21:01	50	19:42 (12)	22:02			22:27
29	08:33		15:07 (9)				07:02			05:39		18:52 (12)	04:37			04:24
	16:39	25	15:32 (9)				19:54			21:03	50	19:42 (12)	22:04			22:27
30	08:31		15:08 (9)				06:59			05:36		18:52 (12)	04:35			04:25
	16:41	24	15:32 (9)				19:57			21:05	50	19:42 (12)	22:05			22:26
31	08:29		15:09 (9)				06:56						04:34			
	16:43	22	15:31 (9)				19:59						22:07			
Potential sun hours	227			262			365			429			515			539
Total, worst case		447			74			225			825			760		
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		36			10			50			223			259		

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		19:07 (12)	06:21		19:14 (12)	07:24	07:33			08:39		14:52 (9)
	22:26			21:41	39	19:46 (12)	20:23	13	19:27 (12)	18:59	16:38			15:43	7	14:59 (9)
2	04:27			05:17		19:06 (12)	06:23			07:26	07:36			08:41		14:55 (9)
	22:25			21:39	41	19:47 (12)	20:20			18:56	16:35			15:42	1	14:56 (9)
3	04:28			05:19		19:06 (12)	06:25			07:29	07:38			08:42		
	22:25			21:37	42	19:48 (12)	20:18			18:54	16:33			15:41		
4	04:29			05:21		19:05 (12)	06:27			07:31	07:40			08:44		
	22:24			21:35	43	19:48 (12)	20:15			18:51	16:31			15:40		
5	04:30			05:23		19:04 (12)	06:29			07:33	07:43			08:46		
	22:23			21:32	45	19:49 (12)	20:12			18:48	16:29			15:39		
6	04:31			05:25		19:04 (12)	06:31			07:35	07:45		14:47 (9)	08:47		
	22:23			21:30	45	19:49 (12)	20:09			18:45	16:26	7	14:54 (9)	15:39		
7	04:32			05:27		19:03 (12)	06:33			07:37	07:47		14:45 (9)	08:49		
	22:22			21:28	47	19:50 (12)	20:07			18:43	16:24	12	14:57 (9)	15:38		
8	04:33			05:30		19:02 (12)	06:36			07:39	07:50		14:42 (9)	08:51		
	22:21			21:25	48	19:50 (12)	20:04			18:40	16:22	17	14:59 (9)	15:37		
9	04:34			05:32		19:02 (12)	06:38			07:42	07:52		14:42 (9)	08:52		
	22:20			21:23	49	19:51 (12)	20:01			18:37	16:20	19	15:01 (9)	15:37		
10	04:36			05:34		19:02 (12)	06:40			07:44	07:54		14:40 (9)	08:53		
	22:19			21:21	49	19:51 (12)	19:58			18:34	16:18	21	15:01 (9)	15:36		
11	04:37			05:36		19:01 (12)	06:42			07:46	07:56		14:40 (9)	08:55		
	22:17			21:18	50	19:51 (12)	19:55			18:32	16:16	22	15:02 (9)	15:36		
12	04:39			05:38		19:01 (12)	06:44			07:48	07:59		14:40 (9)	08:56		
	22:16			21:16	50	19:51 (12)	19:53			18:29	16:14	23	15:03 (9)	15:35		
13	04:40			05:40		19:01 (12)	06:46			07:50	08:01		14:39 (9)	08:57		
	22:15			21:13	50	19:51 (12)	19:50			18:26	16:12	24	15:03 (9)	15:35		
14	04:42			05:42		18:59 (12)	06:48			07:53	08:03		14:39 (9)	08:58		
	22:14			21:11	51	19:50 (12)	19:47			18:24	16:10	25	15:04 (9)	15:35		
15	04:43			05:44		18:59 (12)	06:50			07:55	08:06		14:39 (9)	08:59		
	22:12			21:08	51	19:50 (12)	19:44			18:21	16:08	25	15:04 (9)	15:35		
16	04:45			05:47		18:59 (12)	06:52		18:33 (11)	07:57	08:08		14:39 (9)	09:00		
	22:11			21:06	50	19:49 (12)	19:41	10	18:43 (11)	18:18	16:06	26	15:05 (9)	15:35		
17	04:47			05:49		18:59 (12)	06:55		18:30 (11)	07:59	08:10		14:39 (9)	09:01		
	22:09			21:03	50	19:49 (12)	19:39	14	18:44 (11)	18:16	16:04	26	15:05 (9)	15:35		
18	04:48			05:51		18:59 (12)	06:57		18:28 (11)	08:02	08:12		14:40 (9)	09:02		
	22:08			21:01	50	19:49 (12)	19:36	17	18:45 (11)	18:13	16:02	25	15:05 (9)	15:35		
19	04:50			05:53		18:59 (12)	06:59		18:27 (11)	08:04	08:14		14:39 (9)	09:03		
	22:06			20:58	49	19:48 (12)	19:33	19	18:46 (11)	18:10	16:00	26	15:05 (9)	15:35		
20	04:52			05:55		18:59 (12)	07:01		18:26 (11)	08:06	08:17		14:40 (9)	09:04		
	22:04			20:55	48	19:47 (12)	19:30	20	18:46 (11)	18:08	15:59	25	15:05 (9)	15:35		
21	04:54			05:57		18:59 (12)	07:03		18:26 (11)	08:08	08:19		14:40 (9)	09:04		
	22:03			20:53	48	19:47 (12)	19:27	21	18:47 (11)	18:05	15:57	25	15:05 (9)	15:36		
22	04:55			05:59		19:00 (12)	07:05		18:25 (11)	08:11	08:21		14:42 (9)	09:05		
	22:01			20:50	46	19:46 (12)	19:25	22	18:47 (11)	18:03	15:55	23	15:05 (9)	15:36		
23	04:57		19:22 (12)	06:02		19:00 (12)	07:07		18:25 (11)	08:13	08:23		14:42 (9)	09:05		
	21:59	10	19:32 (12)	20:48	45	19:45 (12)	19:22	21	18:46 (11)	18:00	15:54	23	15:05 (9)	15:37		
24	04:59		19:19 (12)	06:04		19:00 (12)	07:09		18:24 (11)	08:15	08:25		14:43 (9)	09:06		
	21:57	17	19:36 (12)	20:45	44	19:44 (12)	19:19	22	18:46 (11)	17:57	15:52	22	15:05 (9)	15:37		
25	05:01		19:17 (12)	06:06		19:01 (12)	07:11		18:24 (11)	07:17	08:27		14:44 (9)	09:06		
	21:55	21	19:38 (12)	20:42	42	19:43 (12)	19:16	21	18:45 (11)	16:55	15:51	21	15:05 (9)	15:38		
26	05:03		19:16 (12)	06:08		19:02 (12)	07:14		18:25 (11)	07:20	08:29		14:44 (9)	09:06		
	21:54	24	19:40 (12)	20:40	39	19:41 (12)	19:13	17	18:42 (11)	16:52	15:49	20	15:04 (9)	15:39		
27	05:05		19:13 (12)	06:10		19:03 (12)	07:16		18:25 (11)	07:22	08:31		14:46 (9)	09:07		
	21:52	28	19:41 (12)	20:37	37	19:40 (12)	19:10	14	18:39 (11)	16:50	15:48	18	15:04 (9)	15:40		
28	05:07		19:12 (12)	06:12		19:04 (12)	07:18		18:27 (11)	07:24	08:33		14:47 (9)	09:07		
	21:50	30	19:42 (12)	20:34	34	19:38 (12)	19:08	9	18:36 (11)	16:47	15:47	16	15:03 (9)	15:41		
29	05:09		19:11 (12)	06:14		19:05 (12)	07:20		18:30 (11)	07:27	08:35		14:48 (9)	09:07		
	21:48	33	19:44 (12)	20:31	31	19:36 (12)	19:05	4	18:34 (11)	16:45	15:45	14	15:02 (9)	15:42		
30	05:11		19:10 (12)	06:16		19:07 (12)	07:22			07:29	08:37		14:50 (9)	09:07		
	21:45	35	19:45 (12)	20:29	26	19:33 (12)	19:02			16:43	15:44	11	15:01 (9)	15:43		
31	05:13		19:09 (12)	06:19		19:10 (12)				07:31				09:07		
	21:43	37	19:46 (12)	20:26	20	19:30 (12)				16:40				15:44		
Potential sun hours	538			474			386			321	241			207		
Total, worst case		235			1359			244				516			8	
Sun reduction		0.57			0.55			0.43				0.15			0.13	
Oper. time red.		0.93			0.93			0.93				0.93			0.93	
Wind dir. red.		0.63			0.63			0.65				0.67			0.67	
Total reduction		0.33			0.32			0.26				0.10			0.08	
Total, real		78			436			63				49			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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	05:22 (2) 04:26	05:21 (2) 05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09 13	05:35 (2) 22:26 25	05:46 (2) 21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	05:21 (2) 04:27	05:22 (2) 05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10 15	05:36 (2) 22:26 25	05:47 (2) 21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	05:20 (2) 04:28	05:22 (2) 05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12 17	05:37 (2) 22:25 25	05:47 (2) 21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	05:19 (2) 04:29	05:23 (2) 05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13 19	05:38 (2) 22:24 23	05:46 (2) 21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	05:19 (2) 04:30	05:23 (2) 05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14 20	05:39 (2) 22:24 23	05:46 (2) 21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	05:18 (2) 04:31	05:24 (2) 05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16 21	05:39 (2) 22:23 22	05:46 (2) 21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	05:18 (2) 04:33	05:25 (2) 05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17 23	05:41 (2) 22:22 20	05:45 (2) 21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	05:18 (2) 04:34	05:25 (2) 05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18 23	05:41 (2) 22:21 20	05:45 (2) 21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	05:17 (2) 04:35	05:26 (2) 05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19 24	05:41 (2) 22:20 18	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	05:17 (2) 04:36	05:28 (2) 05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20 25	05:42 (2) 22:19 16	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	05:17 (2) 04:38	05:29 (2) 05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21 25	05:42 (2) 22:18 14	05:43 (2) 21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	05:17 (2) 04:39	05:30 (2) 05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22 26	05:43 (2) 22:16 11	05:41 (2) 21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	05:17 (2) 04:41	05:33 (2) 05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23 27	05:44 (2) 22:15 7	05:40 (2) 21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	05:17 (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 26	05:43 (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	05:17 (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	05:44 (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	05:17 (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	05:44 (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	05:17 (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	05:45 (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	05:17 (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	05:45 (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	05:18 (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 27	05:45 (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	05:18 (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 27	05:45 (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	05:18 (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 27	05:45 (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	05:19 (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 27	05:46 (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	05:19 (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 27	05:46 (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	05:19 (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 27	05:46 (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	05:19 (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	05:47 (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	05:19 (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 27	05:46 (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	05:20 (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	05:47 (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	05:20 (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	05:47 (2) 21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:20 (2) 05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27 27	05:47 (2) 21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36 05:27 (2)	04:26	05:21 (2) 05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06 2 05:29 (2)	22:27 26	05:47 (2) 21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35 05:24 (2)		05:13	06:19		07:31		09:07
	16:44		19:59		22:07 9 05:33 (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					11	738	249					
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	0.34					
Total, real					4	239	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	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	04:30	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
	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	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
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	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	06:53	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	04:56	04:21	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	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
	16:16	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	15:59	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	04:45	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	17:43	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	15:43
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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
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Table layout: For each day in each month the following matrix apply

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

SHADOW - Calendar

Shadow receptor: BF - Jesperi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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	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)		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)

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Calculated:
17.09.2025 17:50/4.1.287

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		10:24 (2)		08:27		07:20		08:16 (3)	06:54		07:21 (1)	05:34	04:33
	15:46	23	10:47 (2)		16:46		17:52	36	08:52 (3)	20:01	19	07:40 (1)	21:08	22:09
2	09:06		10:25 (2)		08:25		07:17		08:14 (3)	06:51		07:20 (1)	05:31	04:32
	15:47	23	10:48 (2)		16:49		17:54	39	08:53 (3)	20:04	20	07:40 (1)	21:10	22:10
3	09:06		10:25 (2)		08:23		07:14		08:14 (3)	06:48		07:20 (1)	05:29	04:31
	15:48	23	10:48 (2)		16:51		17:57	39	08:53 (3)	20:06	19	07:39 (1)	21:12	22:12
4	09:06		10:26 (2)		08:21		07:12		08:14 (3)	06:46		07:21 (1)	05:27	04:30
	15:50	22	10:48 (2)		16:53		17:59	40	08:54 (3)	20:08	18	07:39 (1)	21:14	22:13
5	09:05		10:27 (2)		08:19		07:09		08:13 (3)	06:43		07:21 (1)	05:24	04:28
	15:51	22	10:49 (2)		16:56		18:01	41	08:54 (3)	20:10	17	07:38 (1)	21:16	22:15
6	09:04		10:28 (2)		08:17		07:06		08:13 (3)	06:40		07:21 (1)	05:22	04:28
	15:53	22	10:50 (2)		16:58		18:04	40	08:53 (3)	20:12	16	07:37 (1)	21:19	22:16
7	09:04		10:28 (2)		08:14		07:04		08:12 (3)	06:37		07:22 (1)	05:20	04:27
	15:54	22	10:50 (2)		17:00		18:06	41	08:53 (3)	20:15	13	07:35 (1)	21:21	22:17
8	09:03		10:28 (2)		08:12		07:01		08:12 (3)	06:35		07:25 (1)	05:17	04:26
	15:56	21	10:49 (2)		17:03		18:08	40	08:52 (3)	20:17	7	07:32 (1)	21:23	22:18
9	09:02		10:29 (2)		08:10		06:58		08:13 (3)	06:32			05:15	04:25
	15:58	20	10:49 (2)		17:05		18:10	40	08:53 (3)	20:19			21:25	22:19
10	09:01		10:30 (2)		08:08	08:40 (5)	06:55		08:12 (3)	06:29			05:13	04:24
	15:59	19	10:49 (2)		17:08	3 08:43 (5)	18:13	40	08:52 (3)	20:21			21:27	22:21
11	09:00		10:31 (2)		08:05	08:36 (5)	06:53		07:26 (4)	06:26			05:11	04:24
	16:01	19	10:50 (2)		17:10	11 08:47 (5)	18:15	42	08:51 (3)	20:23			21:29	22:21
12	08:59		10:32 (2)		08:03	08:34 (5)	06:50		07:20 (4)	06:24			05:08	04:23
	16:03	17	10:49 (2)		17:12	15 08:49 (5)	18:17	50	08:50 (3)	20:26			21:31	22:22
13	08:58		10:33 (2)		08:00	08:33 (5)	06:47		07:18 (4)	06:21			05:06	04:23
	16:05	16	10:49 (2)		17:15	17 08:50 (5)	18:19	52	08:48 (3)	20:28			21:34	22:23
14	08:57		10:34 (2)		07:58	08:31 (5)	06:44		07:17 (4)	06:18			05:04	04:22
	16:07	14	10:48 (2)		17:17	20 08:51 (5)	18:22	53	08:48 (3)	20:30			21:36	22:24
15	08:56		10:37 (2)		07:56	08:31 (5)	06:41		07:15 (4)	06:15			05:02	04:22
	16:09	10	10:47 (2)		17:19	21 08:52 (5)	18:24	53	08:46 (3)	20:32			21:38	22:25
16	08:55		10:39 (2)		07:53	08:30 (5)	06:39		07:14 (4)	06:13			05:00	04:21
	16:11	6	10:45 (2)		17:22	22 08:52 (5)	18:26	52	08:44 (3)	20:34			21:40	22:25
17	08:53				07:51	08:31 (5)	06:36		07:13 (4)	06:10			04:58	04:21
	16:13				17:24	22 08:53 (5)	18:28	48	08:41 (3)	20:37			21:42	22:26
18	08:52				07:48	08:30 (5)	06:33		07:12 (4)	06:07			04:56	04:21
	16:15				17:26	23 08:53 (5)	18:30	44	08:38 (3)	20:39			21:44	22:27
19	08:50				07:46	08:30 (5)	06:30		07:12 (4)	06:05			04:54	04:21
	16:17				17:29	22 08:52 (5)	18:33	34	08:33 (3)	20:41			21:46	22:27
20	08:49				07:43	08:31 (5)	06:28		07:12 (4)	06:02			04:52	04:21
	16:19				17:31	21 08:52 (5)	18:35	26	07:38 (4)	20:43			21:48	22:27
21	08:47				07:41	08:31 (5)	06:25		07:12 (4)	05:59			04:50	04:21
	16:21				17:34	20 08:51 (5)	18:37	25	07:37 (4)	20:45			21:50	22:28
22	08:46				07:38	08:28 (3)	06:22		07:12 (4)	05:57			04:48	04:21
	16:23				17:36	22 08:50 (5)	18:39	24	07:36 (4)	20:48			21:52	22:28
23	08:44				07:35	08:25 (3)	06:19		07:12 (4)	05:54			04:47	04:22
	16:26				17:38	24 08:49 (5)	18:42	23	07:35 (4)	20:50			21:53	22:28
24	08:42				07:33	08:23 (3)	06:16		07:13 (4)	05:52			04:45	04:22
	16:28				17:41	25 08:48 (5)	18:44	20	07:33 (4)	20:52			21:55	22:28
25	08:41				07:30	08:21 (3)	06:14		07:14 (4)	05:49			04:43	04:22
	16:30				17:43	27 08:48 (3)	18:46	17	07:31 (4)	20:54			21:57	22:28
26	08:39				07:28	08:19 (3)	06:11		07:16 (4)	05:46			04:42	04:23
	16:32				17:45	31 08:50 (3)	18:48	13	07:29 (4)	20:57			21:59	22:28
27	08:37				07:25	08:18 (3)	06:08		06:34 (1)	05:44			04:40	04:23
	16:35				17:47	33 08:51 (3)	18:50	5	07:24 (4)	20:59			22:01	22:28
28	08:35				07:22	08:17 (3)	06:05		06:31 (1)	05:41			04:39	04:24
	16:37				17:50	35 08:52 (3)	18:53	7	06:38 (1)	21:01			22:02	22:27
29	08:33						07:02		07:28 (1)	05:39			04:37	04:25
	16:39						19:55	11	07:39 (1)	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		299			414			1028			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		22			53			216			36			

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		07:58 (4)	07:34			08:39		10:14 (2)
	22:26	21:42	20:24			19:00	51	09:28 (3)	16:38			15:43	18	10:32 (2)
2	04:27	05:17	06:23			07:27		08:01 (4)	07:36			08:41		10:13 (2)
	22:26	21:39	20:21			18:57	46	09:28 (3)	16:36			15:42	20	10:33 (2)
3	04:28	05:19	06:25			07:29		08:51 (3)	07:38			08:43		10:13 (2)
	22:25	21:37	20:18			18:54	39	09:30 (3)	16:34			15:41	20	10:33 (2)
4	04:29	05:22	06:27		07:22 (1)	07:31		08:50 (3)	07:41			08:44		10:13 (2)
	22:24	21:35	20:15	7	07:29 (1)	18:51	40	09:30 (3)	16:31			15:41	21	10:34 (2)
5	04:30	05:24	06:30		07:19 (1)	07:33		08:49 (3)	07:43			08:46		10:14 (2)
	22:24	21:33	20:13	13	07:32 (1)	18:49	40	09:29 (3)	16:29			15:40	21	10:35 (2)
6	04:31	05:26	06:32		07:17 (1)	07:35		08:48 (3)	07:45			08:48		10:13 (2)
	22:23	21:30	20:10	16	07:33 (1)	18:46	41	09:29 (3)	16:27			15:39	22	10:35 (2)
7	04:32	05:28	06:34		07:16 (1)	07:38		08:49 (3)	07:48			08:49		10:13 (2)
	22:22	21:28	20:07	17	07:33 (1)	18:43	41	09:30 (3)	16:24			15:38	22	10:35 (2)
8	04:34	05:30	06:36		07:15 (1)	07:40		08:48 (3)	07:50			08:51		10:14 (2)
	22:21	21:26	20:04	19	07:34 (1)	18:40	41	09:29 (3)	16:22			15:38	22	10:36 (2)
9	04:35	05:32	06:38		07:14 (1)	07:42		08:48 (3)	07:52			08:52		10:15 (2)
	22:20	21:23	20:01	20	07:34 (1)	18:38	40	09:28 (3)	16:20			15:37	22	10:37 (2)
10	04:36	05:34	06:40		07:14 (1)	07:44		08:48 (3)	07:55			08:54		10:14 (2)
	22:19	21:21	19:59	19	07:33 (1)	18:35	39	09:27 (3)	16:18			15:36	23	10:37 (2)
11	04:38	05:36	06:42		07:13 (1)	07:46		08:49 (3)	07:57			08:55		10:15 (2)
	22:18	21:18	19:56	20	07:33 (1)	18:32	38	09:27 (3)	16:16			15:36	23	10:38 (2)
12	04:39	05:38	06:44		07:14 (1)	07:49		08:49 (3)	07:59			08:56		10:15 (2)
	22:17	21:16	19:53	18	07:32 (1)	18:29	37	09:26 (3)	16:14			15:36	23	10:38 (2)
13	04:41	05:41	06:46		07:16 (1)	07:51		08:49 (3)	08:01			08:58		10:15 (2)
	22:15	21:14	19:50	15	07:31 (1)	18:27	36	09:25 (3)	16:12			15:35	24	10:39 (2)
14	04:42	05:43	06:49		07:18 (1)	07:53		08:50 (3)	08:04			08:59		10:16 (2)
	22:14	21:11	19:47	12	07:30 (1)	18:24	34	09:24 (3)	16:10			15:35	24	10:40 (2)
15	04:44	05:45	06:51		07:20 (1)	07:55		08:51 (3)	08:06			09:00		10:17 (2)
	22:13	21:09	19:45	8	07:28 (1)	18:21	32	09:23 (3)	16:08			15:35	23	10:40 (2)
16	04:45	05:47	06:53		07:22 (1)	07:57		08:51 (3)	08:08			09:01		10:17 (2)
	22:11	21:06	19:42	3	07:25 (1)	18:19	30	09:21 (3)	16:06			15:35	24	10:41 (2)
17	04:47	05:49	06:55		08:06 (4)	08:00		08:53 (3)	08:10			09:02		10:18 (2)
	22:10	21:03	19:39	11	08:17 (4)	18:16	27	09:20 (3)	16:04			15:35	23	10:41 (2)
18	04:49	05:51	06:57		08:03 (4)	08:02		08:55 (3)	08:13			09:03		10:18 (2)
	22:08	21:01	19:36	16	08:19 (4)	18:13	24	09:19 (5)	16:02			15:35	24	10:42 (2)
19	04:50	05:53	06:59		08:01 (4)	08:04		08:57 (3)	08:15			09:03		10:18 (2)
	22:06	20:58	19:33	19	08:20 (4)	18:11	23	09:20 (5)	16:01			15:36	23	10:41 (2)
20	04:52	05:55	07:01		07:59 (4)	08:06		09:01 (3)	08:17			09:04		10:19 (2)
	22:05	20:56	19:30	22	08:21 (4)	18:08	21	09:22 (5)	15:59			15:36	23	10:42 (2)
21	04:54	05:58	07:03		07:58 (4)	08:09		09:01 (5)	08:19			09:05		10:19 (2)
	22:03	20:53	19:28	23	08:21 (4)	18:06	21	09:22 (5)	15:57			15:36	24	10:43 (2)
22	04:56	06:00	07:05		07:57 (4)	08:11		09:01 (5)	08:21			09:05		10:19 (2)
	22:01	20:51	19:25	24	08:21 (4)	18:03	22	09:23 (5)	15:56			15:37	24	10:43 (2)
23	04:58	06:02	07:08		07:56 (4)	08:13		09:00 (5)	08:23			09:06		10:20 (2)
	22:00	20:48	19:22	25	08:21 (4)	18:00	22	09:22 (5)	15:54			15:37	24	10:44 (2)
24	05:00	06:04	07:10		07:55 (4)	08:15		09:00 (5)	08:25			09:06		10:21 (2)
	21:58	20:45	19:19	29	09:14 (3)	17:58	23	09:23 (5)	15:53			15:38	23	10:44 (2)
25	05:01	06:06	07:12		07:55 (4)	07:18		08:00 (5)	08:27			09:07		10:21 (2)
	21:56	20:43	19:16	41	09:20 (3)	16:55	22	08:22 (5)	15:51			15:38	23	10:44 (2)
26	05:03	06:08	07:14		07:55 (4)	07:20		08:01 (5)	08:30		10:18 (2)	09:07		10:21 (2)
	21:54	20:40	19:14	47	09:22 (3)	16:53	21	08:22 (5)	15:50	6	10:24 (2)	15:39	24	10:45 (2)
27	05:05	06:10	07:16		07:56 (4)	07:22		08:01 (5)	08:32		10:16 (2)	09:07		10:22 (2)
	21:52	20:37	19:11	50	09:25 (3)	16:50	20	08:21 (5)	15:48	10	10:26 (2)	15:40	23	10:45 (2)
28	05:07	06:13	07:18		07:56 (4)	07:25		08:02 (5)	08:33		10:14 (2)	09:07		10:22 (2)
	21:50	20:34	19:08	52	09:26 (3)	16:48	19	08:21 (5)	15:47	14	10:28 (2)	15:41	24	10:46 (2)
29	05:09	06:15	07:20		07:56 (4)	07:27		08:02 (5)	08:35		10:14 (2)	09:07		10:23 (2)
	21:48	20:32	19:05	53	09:27 (3)	16:45	17	08:19 (5)	15:46	15	10:29 (2)	15:42	24	10:47 (2)
30	05:11	06:17	07:23		07:57 (4)	07:29		08:04 (5)	08:37		10:14 (2)	09:07		10:24 (2)
	21:46	20:29	19:02	53	09:28 (3)	16:43	14	08:18 (5)	15:45	17	10:31 (2)	15:43	23	10:47 (2)
31	05:13	06:19				07:31		08:06 (5)				09:07		10:24 (2)
	21:44	20:26				16:41	10	08:16 (5)				15:44	23	10:47 (2)
Potential sun hours	538	474	386			321			241			207		
Total, worst case				652			931			62			704	
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			0.62			0.59			0.59	
Total reduction				0.25			0.18			0.08			0.07	
Total, real				163			163			5			49	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)		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)

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Calculated:
17.09.2025 17:50/4.1.287

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	19:03 (8)	05:34	18:48 (8)	04:33	04:26	05:15	06:21	18:40 (8)	07:24	07:33	08:39
	15:45	16:46	17:52	20:01 6	19:09 (8)	21:07 23	19:11 (8)	22:08	22:26	21:41	20:23 44	19:24 (8)	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	18:57 (8)	05:31	18:50 (8)	04:32	04:27	05:17	06:23	18:40 (8)	07:26	07:36	08:41
	15:47	16:48	17:54	20:03 17	19:14 (8)	21:09 17	19:07 (8)	22:10	22:25	21:39	20:20 43	19:23 (8)	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	18:53 (8)	05:29	18:54 (8)	04:30	04:28	05:19	06:25	18:41 (8)	07:29	07:38	08:42
	15:48	16:51	17:56	20:05 24	19:17 (8)	21:12 10	19:04 (8)	22:11	22:25	21:37	20:18 41	19:22 (8)	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	18:50 (8)	05:26		04:29	04:29	05:21	06:27	18:41 (8)	07:31	07:40	08:44
	15:49	16:53	17:59	20:08 28	19:18 (8)	21:14		22:13	22:24	21:34	20:15 40	19:21 (8)	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	18:49 (8)	05:24		04:28	04:30	05:23	06:29	18:42 (8)	07:33	07:43	08:46
	15:51	16:55	18:01	20:10 32	19:21 (8)	21:16		22:14	22:23	21:32	20:12 37	19:19 (8)	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	18:47 (8)	05:22		04:27	04:31	05:25	06:31	18:43 (8)	07:35	07:45	08:47
	15:52	16:58	18:03	20:12 35	19:22 (8)	21:18		22:15	22:22	21:30	20:09 35	19:18 (8)	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	18:45 (8)	05:19		04:26	04:32	05:28	06:34	18:44 (8)	07:37	07:47	08:49
	15:54	17:00	18:05	20:14 37	19:22 (8)	21:20		22:17	22:22	21:28	20:07 32	19:16 (8)	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	18:43 (8)	05:17		04:26	04:33	05:30	06:36	18:45 (8)	07:39	07:50	08:50
	15:56	17:02	18:08	20:16 40	19:23 (8)	21:22		22:18	22:21	21:25	20:04 29	19:14 (8)	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	18:43 (8)	05:15		04:25	04:35	05:32	06:38	18:47 (8)	07:42	07:52	08:52
	15:57	17:05	18:10	20:19 41	19:24 (8)	21:25		22:19	22:20	21:23	20:01 24	19:11 (8)	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	18:41 (8)	05:13		04:24	04:36	05:34	19:02 (8) 06:40	18:49 (8)	07:44	07:54	08:53
	15:59	17:07	18:12	20:21 43	19:24 (8)	21:27		22:20	22:18	21:20 12	19:14 (8) 19:58 19	19:08 (8)	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	18:40 (8)	05:10		04:23	04:37	05:36	18:59 (8) 06:42	18:54 (8)	07:46	07:56	08:55
	16:01	17:10	18:15	20:23 44	19:24 (8)	21:29		22:21	22:17	21:18 19	19:18 (8) 19:55 8	19:02 (8)	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	18:40 (8)	05:08		04:23	04:39	05:38	18:56 (8) 06:44		07:48	07:59	08:56
	16:03	17:12	18:17	20:25 45	19:25 (8)	21:31		22:22	22:16	21:16 24	19:20 (8) 19:53		18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	18:39 (8)	05:06		04:22	04:40	05:40	18:54 (8) 06:46		07:50	08:01	08:57
	16:05	17:14	18:19	20:27 46	19:25 (8)	21:33		22:23	22:15	21:13 27	19:21 (8) 19:50		18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	18:38 (8)	05:04		04:22	04:42	05:42	18:52 (8) 06:48		07:53	08:03	08:58
	16:07	17:17	18:21	20:30 46	19:24 (8)	21:35		22:24	22:13	21:11 31	19:23 (8) 19:47		18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	18:39 (8)	05:02		04:22	04:43	05:45	18:51 (8) 06:50		07:55	08:05	08:59
	16:09	17:19	18:23	20:32 46	19:25 (8)	21:37		22:24	22:12	21:08 33	19:24 (8) 19:44		18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	18:38 (8)	05:00		04:21	04:45	05:47	18:49 (8) 06:52		07:57	08:08	09:00
	16:11	17:21	18:26	20:34 46	19:24 (8)	21:39		22:25	22:11	21:06 36	19:25 (8) 19:41		18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	18:38 (8)	04:58		04:21	04:47	05:49	18:48 (8) 06:55		07:59	08:10	09:01
	16:13	17:24	18:28	20:36 46	19:24 (8)	21:41		22:26	22:09	21:03 38	19:26 (8) 19:39		18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	18:38 (8)	04:56		04:21	04:48	05:51	18:46 (8) 06:57		08:02	08:12	09:02
	16:15	17:26	18:30	20:38 46	19:24 (8)	21:43		22:26	22:08	21:01 39	19:25 (8) 19:36		18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	18:38 (8)	04:54		04:21	04:50	05:53	18:45 (8) 06:59		08:04	08:14	09:03
	16:17	17:29	18:32	20:41 46	19:24 (8)	21:45		22:26	22:06	20:58 41	19:26 (8) 19:33		18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	18:38 (8)	04:52		04:21	04:52	05:55	18:44 (8) 07:01		08:06	08:16	09:04
	16:19	17:31	18:35	20:43 45	19:23 (8)	21:47		22:27	22:04	20:55 42	19:26 (8) 19:30		18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	18:39 (8)	04:50		04:21	04:54	05:57	18:43 (8) 07:03		08:08	08:19	09:04
	16:21	17:33	18:37	20:45 44	19:23 (8)	21:49		22:27	22:03	20:53 43	19:26 (8) 19:27		18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	18:38 (8)	04:48		04:21	04:56	05:59	18:42 (8) 07:05		08:11	08:21	09:05
	16:23	17:36	18:39	20:47 44	19:22 (8)	21:51		22:27	22:01	20:50 45	19:27 (8) 19:25		18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	18:39 (8)	04:46		04:21	04:57	06:02	18:42 (8) 07:07		08:13	08:23	09:05
	16:25	17:38	18:41	20:50 42	19:21 (8)	21:53		22:27	21:59	20:47 45	19:27 (8) 19:22		18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	18:39 (8)	04:45		04:22	04:59	06:04	18:41 (8) 07:09		08:15	08:25	09:06
	16:28	17:40	18:43	20:52 41	19:20 (8)	21:55		22:28	21:57	20:45 46	19:27 (8) 19:19		17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	18:40 (8)	04:43		04:22	05:01	06:06	18:40 (8) 07:12		07:17	08:27	09:06
	16:30	17:43	18:46	20:54 39	19:19 (8)	21:57		22:27	21:55	20:42 46	19:26 (8) 19:16		16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	18:41 (8)	04:41		04:23	05:03	06:08	18:40 (8) 07:14		07:20	08:29	09:06
	16:32	17:45	18:48	20:56 37	19:18 (8)	21:59		22:27	21:53	20:39 46	19:26 (8) 19:13		16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	18:42 (8)	04:40		04:23	05:05	06:10	18:40 (8) 07:16		07:22	08:31	09:07
	16:34	17:47	18:50	20:58 35	19:17 (8)	22:00		22:27	21:51	20:37 46	19:26 (8) 19:10		16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	18:43 (8)	04:38		04:24	05:07	06:12	18:40 (8) 07:18		07:24	08:33	09:07
	16:37	17:49	18:52	21:01 33	19:16 (8)	22:02		22:27	21:49	20:34 47	19:27 (8) 19:08		16:48	15:47	15:41
29	08:33		07:02	05:39	18:44 (8)	04:37		04:24	05:09	06:14	18:40 (8) 07:20		07:26	08:35	09:07
	16:39		19:54	21:03 30	19:14 (8)	22:04		22:27	21:47	20:31 46	19:26 (8) 19:05		16:45	15:46	15:42
30	08:31		06:59	05:36	18:46 (8)	04:36		04:25	05:11	06:17	18:40 (8) 07:22		07:29	08:37	09:07
	16:41		19:57	21:05 27	19:13 (8)	22:05		22:26	21:45	20:29 45	19:25 (8) 19:02		16:43	15:44	15:43
31	08:29		06:56			04:34			05:13	06:19	18:40 (8)		07:31		09:06
	16:44		19:59			22:07			21:43	20:26 45	19:25 (8)		16:40		15:44
Potential sun hours	227	262	365	429	515		539	538	474		386		321	241	207
Total, worst case				1131	50				842		352				
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				312	17				275		91				

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:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
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	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) 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:
17.09.2025 17:50/4.1.287

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) 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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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) 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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		09:57 (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	10:19 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	24	10:06 (13)
2	09:06		09:57 (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	10:19 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	24	10:06 (13)
3	09:06		09:57 (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	10:19 (13)	16:51	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	24	10:07 (13)
4	09:05		09:57 (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	10:20 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	24	10:07 (13)
5	09:05		09:58 (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	10:21 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	23	10:07 (13)
6	09:04		09:58 (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	10:22 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	23	10:07 (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		09:44 (13)
	15:54	23	10:22 (13)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	23	10:07 (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		09:45 (13)
	15:56	24	10:22 (13)	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	23	10:08 (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		09:46 (13)
	15:57	23	10:22 (13)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	22	10:08 (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		09:46 (13)
	15:59	24	10:23 (13)	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18			15:36	22	10:08 (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		09:47 (13)
	16:01	24	10:24 (13)	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16			15:36	22	10:09 (13)
12	08:59		10:00 (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	24	10:24 (13)	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14			15:35	21	10:09 (13)
13	08:58		10:01 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		09:48 (13)
	16:04	24	10:25 (13)	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12			15:35	20	10:08 (13)
14	08:57		10:01 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04			08:59		09:49 (13)
	16:06	23	10:24 (13)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	21	10:10 (13)
15	08:56		10:02 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06			09:00		09:50 (13)
	16:08	23	10:25 (13)	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08			15:35	20	10:10 (13)
16	08:54		10:02 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08			09:01		09:50 (13)
	16:10	23	10:25 (13)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06			15:35	20	10:10 (13)
17	08:53		10:02 (13)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10		09:47 (13)	09:02		09:51 (13)
	16:12	23	10:25 (13)	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	6	09:53 (13)	15:35	19	10:10 (13)
18	08:52		10:04 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		09:44 (13)	09:03		09:52 (13)
	16:14	21	10:25 (13)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	11	09:55 (13)	15:35	19	10:11 (13)
19	08:50		10:04 (13)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:43 (13)	09:03		09:51 (13)
	16:17	21	10:25 (13)	17:29	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15	09:58 (13)	15:35	19	10:10 (13)
20	08:49		10:05 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:42 (13)	09:04		09:52 (13)
	16:19	20	10:25 (13)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	17	09:59 (13)	15:35	19	10:11 (13)
21	08:47		10:06 (13)	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		09:42 (13)	09:05		09:53 (13)
	16:21	18	10:24 (13)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	18	10:00 (13)	15:36	19	10:12 (13)
22	08:46		10:07 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:41 (13)	09:05		09:53 (13)
	16:23	17	10:24 (13)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	20	10:01 (13)	15:36	19	10:12 (13)
23	08:44		10:08 (13)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:40 (13)	09:06		09:54 (13)
	16:25	15	10:23 (13)	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	21	10:01 (13)	15:37	19	10:13 (13)
24	08:42		10:10 (13)	07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		09:41 (13)	09:06		09:54 (13)
	16:27	11	10:21 (13)	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	22	10:03 (13)	15:37	19	10:13 (13)
25	08:41		10:13 (13)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:40 (13)	09:07		09:55 (13)
	16:30	6	10:19 (13)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	23	10:03 (13)	15:38	19	10:14 (13)
26	08:39			07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:41 (13)	09:07		09:55 (13)
	16:32			17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	23	10:04 (13)	15:39	19	10:14 (13)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:41 (13)	09:07		09:55 (13)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	23	10:04 (13)	15:40	20	10:15 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:41 (13)	09:07		09:56 (13)
	16:37			17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	23	10:04 (13)	15:41	19	10:15 (13)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:41 (13)	09:07		09:56 (13)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	24	10:05 (13)	15:42	20	10:16 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:42 (13)	09:07		09:57 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	24	10:06 (13)	15:43	20	10:17 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31				09:07		09:56 (13)
	16:43				19:59		22:07		21:44	20:26		16:40				15:44	21	10:17 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241			207		
Total, worst case		523												270			646	
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		39												24			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)

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Calculated:
17.09.2025 17:50/4.1.287

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		06:35 (3)
	15:46			16:46	34	10:14 (2)	17:52			20:01			21:08	45	07:11 (3)	22:09	34	07:09 (3)
2	09:06			08:25		09:40 (2)	07:17			06:51			05:31		06:01 (1)	04:32		06:35 (3)
	15:47			16:49	33	10:13 (2)	17:54			20:04			21:10	50	07:12 (3)	22:10	33	07:08 (3)
3	09:06			08:23		09:41 (2)	07:14			06:48			05:29		05:58 (1)	04:31		06:36 (3)
	15:48			16:51	33	10:14 (2)	17:57			20:06			21:12	55	07:12 (3)	22:12	32	07:08 (3)
4	09:05			08:21		09:41 (2)	07:12			06:46			05:27		05:56 (1)	04:30		06:37 (3)
	15:50			16:53	33	10:14 (2)	17:59			20:08			21:14	57	07:12 (3)	22:13	30	07:07 (3)
5	09:05			08:19		09:41 (2)	07:09			06:43			05:24		05:54 (1)	04:29		06:37 (3)
	15:51			16:56	32	10:13 (2)	18:01			20:10			21:16	62	07:13 (3)	22:15	30	07:07 (3)
6	09:04			08:17		09:42 (2)	07:06			06:40			05:22		05:53 (1)	04:28		06:38 (3)
	15:53			16:58	31	10:13 (2)	18:04			20:12			21:19	64	07:14 (3)	22:16	28	07:06 (3)
7	09:04			08:14		09:42 (2)	07:04			06:37			05:20		05:53 (1)	04:27		06:39 (3)
	15:54			17:00	30	10:12 (2)	18:06			20:15			21:21	65	07:14 (3)	22:17	27	07:06 (3)
8	09:03			08:12		09:44 (2)	07:01			06:35			05:17		05:53 (1)	04:26		06:39 (3)
	15:56			17:03	28	10:12 (2)	18:08			20:17			21:23	65	07:14 (3)	22:18	26	07:05 (3)
9	09:02			08:10		09:44 (2)	06:58			06:32			05:15		05:53 (1)	04:25		06:40 (3)
	15:58			17:05	27	10:11 (2)	18:10			20:19			21:25	64	07:14 (3)	22:19	24	07:04 (3)
10	09:01			08:08		09:46 (2)	06:55			06:29			05:13		05:54 (1)	04:24		06:41 (3)
	15:59			17:08	24	10:10 (2)	18:13			20:21			21:27	63	07:14 (3)	22:20	24	07:05 (3)
11	09:00			08:05		09:47 (2)	06:53			06:26			05:11		05:54 (1)	04:24		06:41 (3)
	16:01			17:10	21	10:08 (2)	18:15			20:23			21:29	64	07:15 (3)	22:21	23	07:04 (3)
12	08:59			08:03		09:49 (2)	06:50			06:24			05:08		05:55 (1)	04:23		06:42 (3)
	16:03			17:12	17	10:06 (2)	18:17			20:26			21:31	61	07:14 (3)	22:22	22	07:04 (3)
13	08:58			08:00		09:52 (2)	06:47		07:18 (5)	06:21			05:06		05:56 (1)	04:23		06:43 (3)
	16:05			17:15	11	10:03 (2)	18:19	8	07:26 (5)	20:28			21:34	59	07:14 (3)	22:23	21	07:04 (3)
14	08:57			07:58			06:44		07:16 (5)	06:18			05:04		05:57 (1)	04:22		06:43 (3)
	16:07			17:17			18:22	14	07:30 (5)	20:30			21:36	57	07:14 (3)	22:24	20	07:03 (3)
15	08:56			07:56			06:41		07:13 (5)	06:15			05:02		06:00 (1)	04:22		06:44 (3)
	16:09			17:19			18:24	19	07:32 (5)	20:32			21:38	51	07:14 (3)	22:25	19	07:03 (3)
16	08:55		09:48 (2)	07:53			06:39		07:11 (5)	06:13		06:45 (4)	05:00		06:27 (3)	04:22		06:45 (3)
	16:11	9	09:57 (2)	17:22			18:26	21	07:32 (5)	20:34	8	06:53 (4)	21:40	47	07:14 (3)	22:25	17	07:02 (3)
17	08:53		09:46 (2)	07:51			06:36		07:10 (5)	06:10		06:41 (4)	04:58		06:27 (3)	04:21		06:46 (3)
	16:13	13	09:59 (2)	17:24			18:28	23	07:33 (5)	20:37	15	06:56 (4)	21:42	46	07:13 (3)	22:26	16	07:02 (3)
18	08:52		09:45 (2)	07:48			06:33		07:09 (5)	06:07		06:39 (4)	04:56		06:28 (3)	04:21		06:46 (3)
	16:15	17	10:02 (2)	17:26			18:30	24	07:33 (5)	20:39	18	06:57 (4)	21:44	46	07:14 (3)	22:26	16	07:02 (3)
19	08:50		09:44 (2)	07:46			06:30		07:08 (5)	06:05		06:38 (4)	04:54		06:28 (3)	04:21		06:46 (3)
	16:17	19	10:03 (2)	17:29			18:33	25	07:33 (5)	20:41	20	06:58 (4)	21:46	45	07:13 (3)	22:27	16	07:02 (3)
20	08:49		09:43 (2)	07:43			06:28		07:08 (5)	06:02		06:36 (4)	04:52		06:28 (3)	04:21		06:47 (3)
	16:19	22	10:05 (2)	17:31			18:35	26	07:34 (5)	20:43	23	06:59 (4)	21:48	44	07:12 (3)	22:27	15	07:02 (3)
21	08:47		09:42 (2)	07:41			06:25		07:08 (5)	05:59		06:36 (4)	04:50		06:28 (3)	04:21		06:47 (3)
	16:21	24	10:06 (2)	17:34			18:37	25	07:33 (5)	20:45	24	07:00 (4)	21:50	45	07:13 (3)	22:28	15	07:02 (3)
22	08:46		09:42 (2)	07:38			06:22		07:07 (5)	05:57		06:34 (4)	04:48		06:28 (3)	04:21		06:47 (3)
	16:23	25	10:07 (2)	17:36			18:39	26	07:33 (5)	20:48	25	06:59 (4)	21:52	44	07:12 (3)	22:28	15	07:02 (3)
23	08:44		09:41 (2)	07:35			06:19		07:07 (5)	05:54		06:34 (4)	04:47		06:29 (3)	04:22		06:48 (3)
	16:26	27	10:08 (2)	17:38			18:42	25	07:32 (5)	20:50	26	07:00 (4)	21:53	43	07:12 (3)	22:28	15	07:03 (3)
24	08:42		09:41 (2)	07:33			06:16		07:07 (5)	05:52		06:33 (4)	04:45		06:29 (3)	04:22		06:47 (3)
	16:28	28	10:09 (2)	17:41			18:44	24	07:31 (5)	20:52	27	07:00 (4)	21:55	42	07:11 (3)	22:28	16	07:03 (3)
25	08:41		09:40 (2)	07:30			06:14		07:07 (5)	05:49		06:34 (4)	04:43		06:30 (3)	04:22		06:48 (3)
	16:30	30	10:10 (2)	17:43			18:46	22	07:29 (5)	20:54	28	07:02 (3)	21:57	41	07:11 (3)	22:28	16	07:04 (3)
26	08:39		09:40 (2)	07:28			06:11		07:09 (5)	05:46		06:34 (4)	04:42		06:31 (3)	04:23		06:47 (3)
	16:32	31	10:11 (2)	17:45			18:48	20	07:29 (5)	20:57	31	07:05 (3)	21:59	40	07:11 (3)	22:28	17	07:04 (3)
27	08:37		09:40 (2)	07:25			06:08		07:10 (5)	05:44		06:33 (4)	04:40		06:31 (3)	04:23		06:47 (3)
	16:35	32	10:12 (2)	17:47			18:50	17	07:27 (5)	20:59	33	07:06 (3)	22:01	39	07:10 (3)	22:28	18	07:05 (3)
28	08:35		09:40 (2)	07:22			06:05		07:12 (5)	05:41		06:34 (4)	04:39		06:32 (3)	04:24		06:47 (3)
	16:37	32	10:12 (2)	17:50			18:53	12	07:24 (5)	21:01	34	07:08 (3)	22:02	38	07:10 (3)	22:27	19	07:06 (3)
29	08:33		09:39 (2)				07:02			05:39		06:34 (4)	04:37		06:32 (3)	04:25		06:47 (3)
	16:39	33	10:12 (2)				19:55			21:03	36	07:10 (3)	22:04	38	07:10 (3)	22:27	20	07:07 (3)
30	08:31		09:40 (2)				07:00			05:36		06:05 (1)	04:36		06:33 (3)	04:25		06:47 (3)
	16:42	33	10:13 (2)				19:57			21:05	40	07:10 (3)	22:06	36	07:09 (3)	22:27	21	07:08 (3)
31	08:29		09:40 (2)				06:57						04:34		06:34 (3)			
	16:44	33	10:13 (2)				19:59						22:07	35	07:09 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		408			354			331			388			1551			645	
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		31			46			70			106			532			204	

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		06:46 (3)	05:15		06:05 (1)	06:21			07:25			07:34		09:15 (2)	08:39	
	22:26	22	07:08 (3)	21:41	62	07:25 (3)	20:24			19:00			16:38	25	09:40 (2)	15:44	
2	04:27		06:45 (3)	05:17		06:04 (1)	06:23			07:27			07:36		09:14 (2)	08:41	
	22:26	24	07:09 (3)	21:39	64	07:25 (3)	20:21			18:57			16:36	26	09:40 (2)	15:42	
3	04:28		06:45 (3)	05:19		06:04 (1)	06:25			07:29			07:38		09:13 (2)	08:43	
	22:25	24	07:09 (3)	21:37	64	07:25 (3)	20:18			18:54			16:34	29	09:42 (2)	15:41	
4	04:29		06:45 (3)	05:22		06:03 (1)	06:27			07:31			07:41		09:12 (2)	08:44	
	22:24	25	07:10 (3)	21:35	65	07:24 (3)	20:15			18:51			16:31	30	09:42 (2)	15:41	
5	04:30		06:45 (3)	05:24		06:02 (1)	06:30			07:33			07:43		09:12 (2)	08:46	
	22:24	26	07:11 (3)	21:33	65	07:23 (3)	20:13			18:49			16:29	31	09:43 (2)	15:40	
6	04:31		06:44 (3)	05:26		06:02 (1)	06:32			07:35			07:45		09:11 (2)	08:48	
	22:23	28	07:12 (3)	21:30	64	07:23 (3)	20:10			18:46			16:27	32	09:43 (2)	15:39	
7	04:32		06:44 (3)	05:28		06:02 (1)	06:34			07:38			07:48		09:11 (2)	08:49	
	22:22	29	07:13 (3)	21:28	64	07:23 (3)	20:07			18:43			16:25	33	09:44 (2)	15:38	
8	04:34		06:43 (3)	05:30		06:04 (1)	06:36			07:40			07:50		09:11 (2)	08:51	
	22:21	30	07:13 (3)	21:26	60	07:22 (3)	20:04			18:40			16:22	33	09:44 (2)	15:38	
9	04:35		06:43 (3)	05:32		06:06 (1)	06:38			07:42			07:52		09:11 (2)	08:52	
	22:20	31	07:14 (3)	21:23	57	07:22 (3)	20:01			18:38			16:20	33	09:44 (2)	15:37	
10	04:36		06:43 (3)	05:34		06:08 (1)	06:40			07:44			07:54		09:11 (2)	08:54	
	22:19	32	07:15 (3)	21:21	53	07:21 (3)	19:59			18:35			16:18	34	09:45 (2)	15:37	
11	04:38		06:42 (3)	05:36		06:10 (1)	06:42			07:46			07:57		09:11 (2)	08:55	
	22:18	34	07:16 (3)	21:18	49	07:20 (3)	19:56			18:32			16:16	33	09:44 (2)	15:36	
12	04:39		06:42 (3)	05:38		06:12 (1)	06:44			07:49			07:59		09:12 (2)	08:56	
	22:16	34	07:16 (3)	21:16	44	07:19 (3)	19:53			18:29			16:14	33	09:45 (2)	15:36	
13	04:41		06:41 (3)	05:41		06:14 (1)	06:46			07:51			08:01		09:11 (2)	08:58	
	22:15	36	07:17 (3)	21:14	38	07:18 (3)	19:50			18:27			16:12	33	09:44 (2)	15:36	
14	04:42		06:41 (3)	05:43		06:42 (4)	06:49			07:53			08:04		09:12 (2)	08:59	
	22:14	37	07:18 (3)	21:11	35	07:17 (3)	19:47			18:24			16:10	32	09:44 (2)	15:35	
15	04:44		06:41 (3)	05:45		06:41 (4)	06:51		08:02 (5)	07:55			08:06		09:13 (2)	09:00	
	22:12	37	07:18 (3)	21:09	34	07:15 (3)	19:45	11	08:13 (5)	18:21			16:08	32	09:45 (2)	15:35	
16	04:45		06:41 (3)	05:47		06:41 (4)	06:53		07:59 (5)	07:57			08:08		09:13 (2)	09:01	
	22:11	39	07:20 (3)	21:06	32	07:13 (3)	19:42	16	08:15 (5)	18:19			16:06	31	09:44 (2)	15:35	
17	04:47		06:40 (3)	05:49		06:40 (4)	06:55		07:58 (5)	08:00			08:10		09:14 (2)	09:02	
	22:10	40	07:20 (3)	21:03	31	07:11 (3)	19:39	19	08:17 (5)	18:16			16:04	30	09:44 (2)	15:35	
18	04:49		06:40 (3)	05:51		06:40 (4)	06:57		07:56 (5)	08:02			08:13		09:15 (2)	09:03	
	22:08	41	07:21 (3)	21:01	28	07:08 (3)	19:36	22	08:18 (5)	18:13			16:02	28	09:43 (2)	15:35	
19	04:50		06:39 (3)	05:53		06:40 (4)	06:59		07:55 (5)	08:04			08:15		09:16 (2)	09:03	
	22:06	42	07:21 (3)	20:58	26	07:06 (4)	19:33	23	08:18 (5)	18:11			16:01	27	09:43 (2)	15:36	
20	04:52		06:39 (3)	05:56		06:40 (4)	07:01		07:54 (5)	08:06			08:17		09:17 (2)	09:04	
	22:05	43	07:22 (3)	20:56	26	07:06 (4)	19:30	24	08:18 (5)	18:08			15:59	25	09:42 (2)	15:36	
21	04:54		06:39 (3)	05:58		06:40 (4)	07:03		07:53 (5)	08:09			08:19		09:18 (2)	09:05	
	22:03	44	07:23 (3)	20:53	25	07:05 (4)	19:28	25	08:18 (5)	18:06			15:57	24	09:42 (2)	15:36	
22	04:56		06:38 (3)	06:00		06:40 (4)	07:05		07:52 (5)	08:11			08:21		09:19 (2)	09:05	
	22:01	44	07:22 (3)	20:50	24	07:04 (4)	19:25	26	08:18 (5)	18:03			15:56	22	09:41 (2)	15:37	
23	04:58		06:39 (3)	06:02		06:41 (4)	07:08		07:52 (5)	08:13			08:23		09:20 (2)	09:06	
	21:59	44	07:23 (3)	20:48	22	07:03 (4)	19:22	26	08:18 (5)	18:00			15:54	20	09:40 (2)	15:37	
24	05:00		06:39 (3)	06:04		06:42 (4)	07:10		07:52 (5)	08:15			08:25		09:22 (2)	09:06	
	21:58	45	07:24 (3)	20:45	20	07:02 (4)	19:19	25	08:17 (5)	17:58			15:53	17	09:39 (2)	15:38	
25	05:01		06:38 (3)	06:06		06:43 (4)	07:12		07:51 (5)	07:18			08:27		09:24 (2)	09:07	
	21:56	45	07:23 (3)	20:43	17	07:00 (4)	19:16	25	08:16 (5)	16:55			15:51	13	09:37 (2)	15:39	
26	05:03		06:38 (3)	06:08		06:44 (4)	07:14		07:52 (5)	07:20			08:29		09:27 (2)	09:07	
	21:54	46	07:24 (3)	20:40	14	06:58 (4)	19:14	23	08:15 (5)	16:53			15:50	9	09:36 (2)	15:39	
27	05:05		06:38 (3)	06:10		06:47 (4)	07:16		07:53 (5)	07:22			08:31			09:07	
	21:52	46	07:24 (3)	20:37	8	06:55 (4)	19:11	22	08:15 (5)	16:50			15:48			15:40	
28	05:07		06:38 (3)	06:13			07:18		07:54 (5)	07:25			08:33			09:07	
	21:50	47	07:25 (3)	20:34			19:08	19	08:13 (5)	16:48			15:47			15:41	
29	05:09		06:09 (1)	06:15			07:20		07:55 (5)	07:27		09:21 (2)	08:35			09:07	
	21:48	53	07:24 (3)	20:32			19:05	16	08:11 (5)	16:45	12	09:33 (2)	15:46			15:42	
30	05:11		06:07 (1)	06:17			07:23		07:57 (5)	07:29		09:18 (2)	08:37			09:07	
	21:46	57	07:24 (3)	20:29			19:02	11	08:08 (5)	16:43	18	09:36 (2)	15:45			15:43	
31	05:13		06:06 (1)	06:19						07:31		09:16 (2)				09:07	
	21:44	61	07:25 (3)	20:26						16:41	22	09:38 (2)				15:44	
Potential sun hours	538			474			386			321			241			207	
Total, worst case		1186			1091			333			52			715			
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		398			352			83			9			64			

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)

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Calculated:
17.09.2025 17:50/4.1.287

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	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	22:26	21:41	27 06:34 (2)	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	06:09 (2)	04:32	04:27	05:18	06:07 (2)	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	5 06:14 (2)	22:10	22:26	21:39	27 06:34 (2)	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	06:05 (2)	04:31	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	12 06:17 (2)	22:12	22:25	21:37	26 06:34 (2)	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	06:02 (2)	04:30	04:29	05:22	06:08 (2)	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	16 06:18 (2)	22:13	22:24	21:35	25 06:33 (2)	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	06:01 (2)	04:29	04:30	05:24	06:08 (2)	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	19 06:20 (2)	22:14	22:24	21:33	24 06:32 (2)	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	06:00 (2)	04:28	04:31	05:26	06:08 (2)	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	21 06:21 (2)	22:16	22:23	21:30	23 06:31 (2)	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	05:59 (2)	04:27	04:33	05:28	06:09 (2)	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	23 06:22 (2)	22:17	22:22	21:28	21 06:30 (2)	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	05:58 (2)	04:26	04:34	05:30	06:11 (2)	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	25 06:23 (2)	22:18	22:21	21:26	18 06:29 (2)	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	05:58 (2)	04:25	04:35	05:32	06:12 (2)	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	25 06:23 (2)	22:19	22:20	21:23	15 06:27 (2)	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	05:57 (2)	04:24	04:36	05:34	06:14 (2)	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	27 06:24 (2)	22:20	22:19	21:21	11 06:25 (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	05:36		06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	27 06:24 (2)	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	05:57 (2)	04:23	04:39	05:39		06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	27 06:24 (2)	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	05:56 (2)	04:23	04:41	06:18 (2)	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	28 06:24 (2)	22:23	22:15	3 06:21 (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	06:15 (2)	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	28 06:24 (2)	22:24	22:14	9 06:24 (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	06:13 (2)	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	28 06:24 (2)	22:25	22:12	12 06:25 (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	06:13 (2)	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	27 06:23 (2)	22:25	22:11	14 06:27 (2)	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	05:57 (2)	04:21	04:47	06:11 (2)	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	27 06:24 (2)	22:26	22:09	17 06:28 (2)	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	05:57 (2)	04:21	04:49	06:11 (2)	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	26 06:23 (2)	22:26	22:08	18 06:29 (2)	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	05:57 (2)	04:21	04:51	06:10 (2)	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	26 06:23 (2)	22:27	22:06	20 06:30 (2)	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	05:58 (2)	04:21	04:52	06:09 (2)	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	25 06:23 (2)	22:27	22:05	22 06:31 (2)	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	05:58 (2)	04:21	04:54	06:09 (2)	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	24 06:22 (2)	22:27	22:03	23 06:32 (2)	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	05:58 (2)	04:22	04:56	06:08 (2)	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52	23 06:21 (2)	22:28	22:01	24 06:32 (2)	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	05:59 (2)	04:22	04:58	06:08 (2)	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22 06:21 (2)	22:28	21:59	25 06:33 (2)	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	05:59 (2)	04:22	05:00	06:08 (2)	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	21 06:20 (2)	22:28	21:58	26 06:34 (2)	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	06:01 (2)	04:23	05:02	06:07 (2)	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	19 06:20 (2)	22:28	21:56	26 06:33 (2)	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	06:02 (2)	04:23	05:04	06:07 (2)	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	21:59	17 06:19 (2)	22:28	21:54	27 06:34 (2)	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	06:02 (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	16 06:18 (2)	22:28	21:52	27 06:34 (2)	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	06:04 (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	13 06:17 (2)	22:27	21:50	28 06:35 (2)	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	06:06 (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	10 06:16 (2)	22:27	21:48	28 06:34 (2)	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	06:08 (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	6 06:14 (2)	22:27	21:46	28 06:34 (2)	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35			05:13	06:07 (2)	06:19		07:31		09:07
	16:44		19:59		22:07			21:44	27 06:34 (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					613		404	217				
Sun reduction					0.58		0.57	0.55				
Oper. time red.					0.93		0.93	0.93				
Wind dir. red.					0.62		0.62	0.62				
Total reduction					0.33		0.32	0.31				
Total, real					204		131	68				

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)

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Calculated:
17.09.2025 17:50/4.1.287

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	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	09:05	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
	15:54	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	22:20	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	22:17	21:16	19:53	18:29	16:14	15:36
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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
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	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	22:26	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
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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
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	16:24	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
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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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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	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
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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
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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
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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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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	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
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	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
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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
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	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
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	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
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	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
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	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)		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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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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
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	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
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	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) 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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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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
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	16:21	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	15:57	15:36
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Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:48	16:51	17:57	20:05	21:12	22:11		22:25	21:37	20:18	18:54	16:33	15:41
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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		05:07 (8)	04:41	05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	5	05:12 (8)	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		05:06 (8)	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	7	05:13 (8)	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		05:06 (8)	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	8	05:14 (8)	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		05:05 (8)	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	10	05:15 (8)	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		05:05 (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	11	05:16 (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		05:05 (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	11	05:16 (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		05:05 (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	11	05:16 (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		05:05 (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	12	05:17 (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		05:05 (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	12	05:17 (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		05:05 (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	12	05:17 (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		05:06 (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	11	05:17 (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		05:06 (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	11	05:17 (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		05:07 (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	11	05:18 (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		05:07 (8)	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	10	05:17 (8)	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		05:08 (8)	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:58	22:00	22:27	9	05:17 (8)	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		05:09 (8)	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	7	05:16 (8)	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 (8)	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	6	05:16 (8)	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 (8)	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	3	05:14 (8)	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							167							
Sun reduction							0.53							
Oper. time red.							0.93							
Wind dir. red.							0.66							
Total reduction							0.33							
Total, real							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:
17.09.2025 17:50/4.1.287

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
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	January	February	March	April	May	June	July	August	September	October	November	December
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	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
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	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
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	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
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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
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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) 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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	26 08:32 (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	08:06 (3)	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36	08:41
	15:47	16:49		17:54	26 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	08:06 (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	25 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	08:07 (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	24 08:31 (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	08:07 (3)	06:43	05:24	04:29	04:30	05:24	06:30	07:33	08:49 (3)	07:43	08:46
	15:51	16:56		18:01	23 08:30 (3)	20:10	21:16	22:15	22:24	21:33	20:13	18:49	10 08:59 (3)	16:29	15:40
6	09:04	08:17		07:06	08:08 (3)	06:40	05:22	04:28	04:31	05:26	06:32	07:35	08:46 (3)	07:45	08:48
	15:53	16:58		18:04	20 08:28 (3)	20:12	21:19	22:16	22:23	21:30	20:10	18:46	15 09:01 (3)	16:27	15:39
7	09:04	08:14		07:04	08:09 (3)	06:37	05:20	04:27	04:32	05:28	06:34	07:38	08:45 (3)	07:48	08:49
	15:54	17:00		18:06	17 08:26 (3)	20:15	21:21	22:17	22:22	21:28	20:07	18:43	19 09:04 (3)	16:25	15:38
8	09:03	08:12		07:01	08:11 (3)	06:35	05:17	04:26	04:34	05:30	06:36	07:40	08:43 (3)	07:50	08:51
	15:56	17:03		18:08	12 08:23 (3)	20:17	21:23	22:18	22:21	21:26	20:04	18:40	21 09:04 (3)	16:22	15:38
9	09:02	08:10		06:58	08:17 (3)	06:32	05:15	04:25	04:35	05:32	06:38	07:42	08:42 (3)	07:52	08:52
	15:58	17:05		18:10	2 08:19 (3)	20:19	21:25	22:19	22:20	21:23	20:01	18:38	23 09:05 (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	08:40 (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	25 09:05 (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	08:40 (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	26 09:06 (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	08:40 (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	25 09:05 (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	26 09:05 (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	25 09:05 (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	08:39 (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	25 09:04 (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	08:39 (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	24 09:03 (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	08:40 (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	23 09:03 (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	08:41 (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 09:02 (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	08:41 (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	19 09:00 (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	08:43 (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	16 08:59 (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	08:46 (3)	08:19	09:05
	16:21	17:34	12 08:26 (3)	18:37		20:46	21:50	22:28	22:03	20:53	19:28	18:06	9 08:55 (3)	15:57	15:36
22	08:46	07:38	08:12 (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	16 08:28 (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	08:11 (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	19 08:30 (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	08:09 (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	22 08:31 (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	08:08 (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 08:31 (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	08:07 (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	25 08:32 (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	08:07 (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	26 08:33 (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	08:06 (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	26 08:32 (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			169		175								352		
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		36								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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	09:04	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
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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
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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
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	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
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	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:38
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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
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	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
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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
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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
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	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
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	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
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	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
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	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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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	16:15	17:27	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:03	15:35
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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
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	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
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	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
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	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
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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		15:18 (13)	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:33			08:39
	15:45		16:46	24	15:42 (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		15:19 (13)	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36			08:41
	15:46		16:48	23	15:42 (13)	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		15:20 (13)	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38			08:43
	15:48		16:50	22	15:42 (13)	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		15:20 (13)	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40		14:55 (13)	08:44
	15:49		16:53	20	15:40 (13)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	11	15:06 (13)	15:40
5	09:05		08:19		15:22 (13)	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43		14:54 (13)	08:46
	15:51		16:55	18	15:40 (13)	18:01	20:10	21:16	22:14	22:24	21:32	20:12	18:48	16:28	15	15:09 (13)	15:39
6	09:04		08:16		15:23 (13)	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45		14:52 (13)	08:48
	15:52		16:58	15	15:38 (13)	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	18	15:10 (13)	15:38
7	09:03		08:14		15:26 (13)	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47		14:51 (13)	08:49
	15:54		17:00	10	15:36 (13)	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	20	15:11 (13)	15:38
8	09:03		08:12			07:00	06:34	05:17	04:25	04:33	05:29	06:36	07:39	07:50		14:50 (13)	08:51
	15:55		17:02			18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	21	15:11 (13)	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		14:50 (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	23	15:13 (13)	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		14:50 (13)	08:54
	15:59		17:07			18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	24	15:14 (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		14:49 (13)	08:55
	16:01		17:09			18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	24	15:13 (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		14:49 (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	25	15:14 (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		14:49 (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	25	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		14:49 (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	25	15:14 (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		14:49 (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	25	15:14 (13)	15:35
16	08:54	15:24 (13)	07:53			06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08		14:50 (13)	09:01
	16:10	4 15:28 (13)	17:21			18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	24	15:14 (13)	15:35
17	08:53	15:21 (13)	07:50			06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10		14:50 (13)	09:02
	16:12	9 15:30 (13)	17:24			18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	24	15:14 (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		14:51 (13)	09:02
	16:14	13 15:34 (13)	17:26			18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	23	15:14 (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		14:51 (13)	09:03
	16:16	16 15:35 (13)	17:28			18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	22	15:13 (13)	15:35
20	08:49	15:19 (13)	07:43			06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17		14:53 (13)	09:04
	16:19	17 15:36 (13)	17:31			18:35	20:43	21:48	22:27	22:05	20:55	19:30	18:08	15:58	20	15:13 (13)	15:35
21	08:47	15:18 (13)	07:40			06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19		14:53 (13)	09:05
	16:21	19 15:37 (13)	17:33			18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	19	15:12 (13)	15:36
22	08:45	15:18 (13)	07:38			06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		14:55 (13)	09:05
	16:23	20 15:38 (13)	17:35			18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:03	15:55	17	15:12 (13)	15:36
23	08:44	15:17 (13)	07:35			06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23		14:56 (13)	09:06
	16:25	22 15:39 (13)	17:38			18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15	15:11 (13)	15:37
24	08:42	15:17 (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	23 15:40 (13)	17:40			18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	13	15:11 (13)	15:37
25	08:40	15:17 (13)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27		14:59 (13)	09:06
	16:30	24 15:41 (13)	17:42			18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	10	15:09 (13)	15:38
26	08:39	15:17 (13)	07:27			06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		15:02 (13)	09:07
	16:32	24 15:41 (13)	17:45			18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	4	15:06 (13)	15:39
27	08:37	15:17 (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	25 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	15:16 (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	25 15:41 (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	15:17 (13)				07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35			09:07
	16:39	25 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	15:17 (13)				06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37			09:07
	16:41	25 15:42 (13)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44			15:42
31	08:29	15:18 (13)				06:56		04:34		05:13	06:19		07:31				09:07
	16:43	25 15:43 (13)				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		316		132											447		
Sun reduction		0.13		0.22											0.15		
Oper. time red.		0.93		0.93											0.93		
Wind dir. red.		0.67		0.67											0.67		
Total reduction		0.08		0.14											0.10		
Total, real		26		18											43		

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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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

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	January	February	March	April	May	June	July	August	September	October	November	December
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	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
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	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
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	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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Operational time

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	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
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	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
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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
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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
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	16:37	17:50	18:53	21:01	22:02	22:28	21:50	20:35	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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
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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
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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
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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:
17.09.2025 17:50/4.1.287

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	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
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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
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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
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	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
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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
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	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
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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
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	16:35	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
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	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	16:27	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	22:19	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
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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	22:25	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	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
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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	07:07	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
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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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
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	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
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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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	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
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30	08:31		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	09:07
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	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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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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
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	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
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	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
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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
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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:
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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	July	August	September	October	November	December
1	09:07	08:27	07:20	08:30 (3)	06:54	05:34	04:33	04:26	05:15	06:21	07:25	08:08 (4)	07:34	08:39
	15:46	16:46	17:52	33 09:03 (3)	20:01	21:08	22:09	22:26	21:42	20:24	19:00	24 08:32 (4)	16:38	15:43
2	09:06	08:25	07:17	08:30 (3)	06:51	05:31	04:32	04:27	05:17	06:23	07:27	08:08 (4)	07:36	08:41
	15:47	16:49	17:54	32 09:02 (3)	20:04	21:10	22:10	22:26	21:39	20:21	18:57	23 08:31 (4)	16:36	15:42
3	09:06	08:23	07:14	08:30 (3)	06:48	05:29	04:31	04:28	05:19	06:25	07:29	08:08 (4)	07:38	08:43
	15:48	16:51	17:57	31 09:01 (3)	20:06	21:12	22:12	22:25	21:37	20:18	18:54	23 08:31 (4)	16:34	15:41
4	09:06	08:21	07:12	08:32 (3)	06:46	05:27	04:30	04:29	05:22	06:27	07:31	08:08 (4)	07:41	08:44
	15:50	16:53	17:59	29 09:01 (3)	20:08	21:14	22:13	22:24	21:35	20:15	18:51	23 08:31 (4)	16:31	15:41
5	09:05	08:19	07:09	07:38 (4)	06:43	05:24	04:28	04:30	05:24	06:30	07:33	08:08 (4)	07:43	08:46
	15:51	16:56	18:01	36 08:59 (3)	20:10	21:16	22:15	22:24	21:33	20:13	18:49	30 09:26 (3)	16:29	15:40
6	09:04	08:17	07:06	07:35 (4)	06:40	05:22	04:27	04:31	05:26	06:32	07:35	08:09 (4)	07:45	08:48
	15:53	16:58	18:04	38 08:57 (3)	20:12	21:19	22:16	22:23	21:30	20:10	18:46	35 09:29 (3)	16:27	15:39
7	09:04	08:14	07:04	07:33 (4)	06:37	05:20	04:27	04:32	05:28	06:34	07:38	08:11 (4)	07:48	08:49
	15:54	17:00	18:06	37 08:54 (3)	20:15	21:21	22:17	22:22	21:28	20:07	18:43	37 09:32 (3)	16:24	15:38
8	09:03	08:12	07:01	07:32 (4)	06:35	05:17	04:26	04:34	05:30	06:36	07:40	08:12 (4)	07:50	08:51
	15:56	17:03	18:08	33 08:51 (3)	20:17	21:23	22:18	22:21	21:26	20:04	18:40	36 09:33 (3)	16:22	15:38
9	09:02	08:10	06:58	07:31 (4)	06:32	05:15	04:25	04:35	05:32	06:38	07:42	08:16 (4)	07:52	08:52
	15:58	17:05	18:10	22 07:53 (4)	20:19	21:25	22:19	22:20	21:23	20:01	18:38	31 09:34 (3)	16:20	15:37
10	09:01	08:08	06:55	07:31 (4)	06:29	05:13	04:24	04:36	05:34	06:40	07:44	09:05 (3)	07:55	08:54
	15:59	17:08	18:13	22 07:53 (4)	20:21	21:27	22:21	22:19	21:21	19:59	18:35	30 09:35 (3)	16:18	15:36
11	09:00	08:05	06:53	07:30 (4)	06:26	05:11	04:24	04:38	05:36	06:42	07:46	09:05 (3)	07:57	08:55
	16:01	17:10	18:15	23 07:53 (4)	20:23	21:29	22:22	22:18	21:18	19:56	18:32	31 09:36 (3)	16:16	15:36
12	08:59	08:03	06:50	07:29 (4)	06:24	05:08	04:23	04:39	05:38	06:44	07:49	09:04 (3)	07:59	08:56
	16:03	17:12	18:17	24 07:53 (4)	20:26	21:31	22:22	22:17	21:16	19:53	18:29	32 09:36 (3)	16:14	15:36
13	08:58	08:00	06:47	07:29 (4)	06:21	05:06	04:23	04:41	05:41	06:46	07:36 (1)	07:51	09:03 (3)	08:01	08:58
	16:05	17:15	18:19	23 07:52 (4)	20:28	21:34	22:23	22:15	21:14	19:50	8 07:44 (1)	18:27	33 09:36 (3)	16:12	15:35
14	08:57	07:58	08:44 (3)	06:44	07:30 (4)	06:18	05:04	04:22	04:42	05:43	06:49	07:33 (1)	07:53	09:03 (3)	08:04	08:59
	16:07	17:17	7 08:51 (3)	18:22	22 07:52 (4)	20:30	21:36	22:24	22:14	21:11	19:47	13 07:46 (1)	18:24	34 09:37 (3)	16:10	15:35
15	08:56	07:56	08:40 (3)	06:41	07:30 (4)	06:15	05:02	04:22	04:44	05:45	06:51	07:31 (1)	07:55	09:02 (3)	08:06	09:00
	16:09	17:19	16 08:56 (3)	18:24	21 07:51 (4)	20:32	21:38	22:25	22:13	21:09	19:45	16 07:47 (1)	18:21	35 09:37 (3)	16:08	15:35
16	08:55	07:53	08:38 (3)	06:39	07:30 (4)	06:13	05:00	04:21	04:45	05:47	06:53	07:30 (1)	07:57	09:01 (3)	08:08	09:01
	16:11	17:22	20 08:58 (3)	18:26	20 07:50 (4)	20:34	21:40	22:25	22:11	21:06	19:42	17 07:47 (1)	18:19	35 09:36 (3)	16:06	15:35
17	08:53	07:51	08:36 (3)	06:36	07:31 (4)	06:10	04:58	04:21	04:47	05:49	06:55	07:30 (1)	08:00	09:02 (3)	08:10	09:02
	16:13	17:24	24 09:00 (3)	18:28	17 07:48 (4)	20:37	21:42	22:26	22:10	21:03	19:39	18 07:48 (1)	18:16	35 09:37 (3)	16:04	15:35
18	08:52	07:48	08:35 (3)	06:33	07:33 (4)	06:07	04:56	04:21	04:49	05:51	06:57	07:30 (1)	08:02	09:01 (3)	08:13	09:03
	16:15	17:26	26 09:01 (3)	18:30	13 07:46 (4)	20:39	21:44	22:27	22:08	21:01	19:36	18 07:48 (1)	18:13	35 09:36 (3)	16:02	15:35
19	08:50	07:46	08:33 (3)	06:30	07:36 (4)	06:05	04:54	04:21	04:50	05:53	06:59	07:29 (1)	08:04	09:01 (3)	08:15	09:03
	16:17	17:29	29 09:02 (3)	18:33	6 07:42 (4)	20:41	21:46	22:27	22:06	20:58	19:33	18 07:47 (1)	18:11	34 09:35 (3)	16:01	15:36
20	08:49	07:43	08:33 (3)	06:28	06:54 (1)	06:02	04:52	04:21	04:52	05:55	07:01	07:31 (1)	08:06	09:02 (3)	08:17	09:04
	16:19	17:31	30 09:03 (3)	18:35	3 06:57 (1)	20:43	21:48	22:27	22:05	20:56	19:30	16 07:47 (1)	18:08	33 09:35 (3)	15:59	15:36
21	08:47	07:41	08:32 (3)	06:25	06:51 (1)	05:59	04:50	04:21	04:54	05:58	07:03	07:33 (1)	08:09	09:02 (3)	08:19	09:05
	16:21	17:34	32 09:04 (3)	18:37	8 06:59 (1)	20:45	21:50	22:28	22:03	20:53	19:28	12 07:45 (1)	18:06	32 09:34 (3)	15:57	15:36
22	08:46	07:38	08:31 (3)	06:22	06:48 (1)	05:57	04:48	04:21	04:56	06:00	07:05	07:35 (1)	08:11	09:03 (3)	08:21	09:05
	16:23	17:36	33 09:04 (3)	18:39	12 07:00 (1)	20:48	21:52	22:28	22:01	20:51	19:25	9 07:44 (1)	18:03	30 09:33 (3)	15:56	15:37
23	08:44	07:35	08:30 (3)	06:19	06:45 (1)	05:54	04:47	04:22	04:58	06:02	07:08	07:37 (1)	08:13	09:04 (3)	08:23	09:06
	16:26	17:38	34 09:04 (3)	18:42	15 07:00 (1)	20:50	21:54	22:28	22:00	20:48	19:22	5 07:42 (1)	18:00	28 09:32 (3)	15:54	15:37
24	08:42	07:33	08:30 (3)	06:16	06:42 (1)	05:52	04:45	04:22	04:59	06:04	07:10	08:15	09:05 (3)	08:25	09:06
	16:28	17:41	35 09:05 (3)	18:44	18 07:00 (1)	20:52	21:55	22:28	21:58	20:45	19:19	17:58	26 09:31 (3)	15:53	15:38
25	08:41	07:30	08:30 (3)	06:14	06:41 (1)	05:49	04:43	04:22	05:01	06:06	07:12	08:16 (4)	07:18	08:06 (3)	08:27	09:07
	16:30	17:43	35 09:05 (3)	18:46	18 06:59 (1)	20:54	21:57	22:28	21:56	20:43	19:16	12 08:28 (4)	16:55	23 08:29 (3)	15:51	15:38
26	08:39	07:28	08:29 (3)	06:11	06:42 (1)	05:46	04:42	04:23	05:03	06:08	07:14	08:14 (4)	07:20	08:08 (3)	08:30	09:07
	16:32	17:45	35 09:04 (3)	18:48	18 07:00 (1)	20:57	21:59	22:28	21:54	20:40	19:14	15 08:29 (4)	16:53	20 08:28 (3)	15:50	15:39
27	08:37	07:25	08:30 (3)	06:08	06:41 (1)	05:44	04:40	04:23	05:05	06:10	07:16	08:13 (4)	07:22	08:11 (3)	08:32	09:07
	16:35	17:47	35 09:05 (3)	18:50	18 06:59 (1)	20:59	22:01	22:28	21:52	20:37	19:11	18 08:31 (4)	16:50	14 08:25 (3)	15:48	15:40
28	08:35	07:22	08:30 (3)	06:05	06:42 (1)	05:41	04:39	04:24	05:07	06:13	07:18	08:11 (4)	07:25	08:16 (3)	08:34	09:07
	16:37	17:50	34 09:04 (3)	18:53	15 06:57 (1)	21:01	22:02	22:27	21:50	20:34	19:08	21 08:32 (4)	16:48	4 08:20 (3)	15:47	15:41
29	08:33			07:02	07:42 (1)	05:39	04:37	04:25	05:09	06:15	07:20	08:10 (4)	07:27		08:35	09:07
	16:39			19:55	14 07:56 (1)	21:03	22:04	22:27	21:48	20:32	19:05	22 08:32 (4)	16:45		15:46	15:42
30	08:31			07:00	07:45 (1)	05:36	04:36	04:25	05:11	06:17	07:23	08:09 (4)	07:29		08:37	09:07
	16:42			19:57	9 07:54 (1)	21:05	22:06	22:27	21:46	20:29	19:02	23 08:32 (4)	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		21:44	20:26			16:41			15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case		425	630						261	806		
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	0.62						0.62	0.62		
Total reduction		0.13	0.21						0.25	0.18		
Total, real		54	133						65	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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
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	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
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	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
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	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
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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
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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
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	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
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	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
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	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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
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	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
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	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
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	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:38
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	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
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	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
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	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
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	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
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	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
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	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
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	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
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	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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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
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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
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	15:54	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
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	15:58	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
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	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
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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
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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
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	16:26	17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	15:37
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	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
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	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
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	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	06:53	07:57	08:08	09:01
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	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	22:26	22:08	21:01	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	08:15	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	20:47	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
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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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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	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
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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	22:26	22:08	21:01	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	08:15	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	20:47	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	06:02	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	17:43	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
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	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		06:56		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
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	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
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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
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	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
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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
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	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	15:41
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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	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
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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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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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
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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
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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
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	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
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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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	January	February	March	April	May	June	July	August	September	October	November	December
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	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
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	16:12	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:15	16:04	15:35
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Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
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Table layout: For each day in each month the following matrix apply

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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

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	January	February	March	April	May	June	July	August	September	October	November	December
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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
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	16:14	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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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
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	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
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	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
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	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
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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
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	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
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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
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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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
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	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
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	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
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	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
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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
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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	7	10:57 (1)	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	5	10:56 (1)	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	06:46	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	22:24	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	15:40		
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	18:03	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	04:26	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	22:19	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		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	3	10:44 (1)
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	7	10:47 (1)
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	9	10:48 (1)
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	10	10:49 (1)
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	11	10:50 (1)
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	12	10:51 (1)
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	13	10:52 (1)
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	13	10:53 (1)
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	13	10:53 (1)
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	14	10:54 (1)
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	14	10:54 (1)
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	14	10:55 (1)
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	14	10:55 (1)
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	14	10:56 (1)
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	14	10:56 (1)
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	13	10:56 (1)
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	14	10:57 (1)
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	13	10:57 (1)
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	12	10:57 (1)
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	11	10:57 (1)
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	11	10:58 (1)
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	9	10:57 (1)
Potential sun hours	227			262	365	429	515	539	539	475	386	321	241	207		
Total, worst case		12													258	
Sun reduction		0.13													0.13	
Oper. time red.		0.93													0.93	
Wind dir. red.		0.61													0.61	
Total reduction		0.07													0.07	
Total, real		1													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)

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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
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	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) 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)

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Calculated:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		19:48 (8)	04:33	04:26	05:15	20:09 (8)	06:21	07:24	07:33	08:39
	15:45	16:46	17:52	20:01		21:07	29	20:17 (8)	22:08	22:26	21:41	6	20:15 (8)	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51		05:31		19:47 (8)	04:32	04:27	05:17		20:05 (8)	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03		21:09	28	20:15 (8)	22:10	22:25	21:39	12	20:17 (8)	20:20	18:56	16:36	15:42
3	09:05	08:23	07:14	06:48		05:29		19:48 (8)	04:30	04:28	05:19		20:03 (8)	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05		21:12	27	20:15 (8)	22:11	22:25	21:37	16	20:19 (8)	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45		05:26		19:48 (8)	04:29	04:29	05:21		20:02 (8)	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08		21:14	27	20:15 (8)	22:13	22:24	21:34	19	20:21 (8)	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:42		05:24		19:49 (8)	04:28	04:30	05:23		20:01 (8)	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10		21:16	25	20:14 (8)	22:14	22:23	21:32	21	20:22 (8)	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40		05:22		19:50 (8)	04:27	04:31	05:25		20:00 (8)	06:31	07:35	07:45	08:47
	15:52	16:58	18:03	20:12		21:18	24	20:14 (8)	22:15	22:22	21:30	23	20:23 (8)	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37		05:19		19:50 (8)	04:26	04:32	05:28		19:59 (8)	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14		21:20	22	20:12 (8)	22:17	22:21	21:28	24	20:23 (8)	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34		05:17		19:51 (8)	04:26	04:33	05:30		19:58 (8)	06:36	07:39	07:49	08:50
	15:56	17:02	18:08	20:16		21:22	20	20:11 (8)	22:18	22:20	21:25	26	20:24 (8)	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31		05:15		19:52 (8)	04:25	04:35	05:32		19:58 (8)	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19		21:25	18	20:10 (8)	22:19	22:19	21:23	26	20:24 (8)	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29		05:12		19:54 (8)	04:24	04:36	05:34		19:57 (8)	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21		21:27	14	20:08 (8)	22:20	22:18	21:20	28	20:25 (8)	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26		05:10		19:56 (8)	04:23	04:37	05:36		19:57 (8)	06:42	07:46	07:56	08:55
	16:01	17:10	18:14	20:23		21:29	10	20:06 (8)	22:21	22:17	21:18	28	20:25 (8)	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		19:57 (8)	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25		21:31			22:22	22:16	21:16	28	20:25 (8)	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		19:56 (8)	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27		21:33			22:23	22:15	21:13	29	20:25 (8)	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		19:56 (8)	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30		21:35			22:24	22:13	21:11	29	20:25 (8)	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15		05:02			04:22	04:43	05:45		19:56 (8)	06:50	07:55	08:05	08:59
	16:08	17:19	18:23	20:32		21:37			22:24	22:12	21:08	28	20:24 (8)	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		19:55 (8)	06:52	07:57	08:08	09:00
	16:10	17:21	18:26	20:34		21:39			22:25	22:11	21:06	28	20:23 (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		19:56 (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	26	20:22 (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		19:56 (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	25	20:21 (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		19:57 (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	23	20:20 (8)	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	19:58 (8)	04:52			04:21	04:52	05:55		19:57 (8)	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	12	20:10 (8)	21:47		22:27	22:04	20:55	22	20:19 (8)	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	19:56 (8)	04:50			04:21	04:54	05:57		19:58 (8)	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	16	20:12 (8)	21:49		22:27	22:03	20:53	20	20:18 (8)	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:56	19:54 (8)	04:48			04:21	04:56	05:59		20:00 (8)	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	19	20:13 (8)	21:51		22:27	22:01	20:50	16	20:16 (8)	19:24	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	19:53 (8)	04:46			04:21	04:57	06:02		20:02 (8)	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	22	20:15 (8)	21:53		22:27	21:59	20:47	11	20:13 (8)	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	19:51 (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	24	20:15 (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	19:50 (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	26	20:16 (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	19:49 (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	27	20:16 (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	19:49 (8)	04:40			04:23	05:05	06:10			07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	27	20:16 (8)	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	19:49 (8)	04:38			04:24	05:07	06:12			07:18	07:24	08:33	09:07
	16:37	17:49	18:52	21:01	28	20:17 (8)	22:02		22:27	21:49	20:34			19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	19:48 (8)	04:37			04:24	05:09	06:14			07:20	07:26	08:35	09:07
	16:39		19:54	21:03	28	20:16 (8)	22:04		22:27	21:47	20:31			19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	19:48 (8)	04:35			04:25	05:11	06:17			07:22	07:29	08:37	09:07
	16:41		19:57	21:05	28	20:16 (8)	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				257		244				514						
Sun reduction				0.46		0.58				0.55						
Oper. time red.				0.93		0.93				0.93						
Wind dir. red.				0.60		0.60				0.60						
Total reduction				0.26		0.32				0.30						
Total, real				66		79				156						

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:51	16:56	18:01	20:10	21:17	22:15	22:24	21:33	20:13	18:49	16:29	15:40
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	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
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	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
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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
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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
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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		11:13 (11)	08:27		09:00 (12)	07:20			06:54		05:34	04:33
	15:45	61	13:00 (10)	16:46	13	09:13 (12)	17:52			20:01		21:07	22:09
2	09:06		11:14 (11)	08:25		08:57 (12)	07:17			06:51		05:31	04:32
	15:47	61	13:01 (10)	16:48	17	09:14 (12)	17:54			20:03		21:10	22:10
3	09:06		11:15 (11)	08:23		08:57 (12)	07:14			06:48		05:29	04:30
	15:48	59	13:01 (10)	16:51	18	09:15 (12)	17:56			20:06		21:12	22:12
4	09:05		11:15 (11)	08:21		08:55 (12)	07:11			06:45		05:26	04:29
	15:49	60	13:02 (10)	16:53	21	09:16 (12)	17:59			20:08		21:14	22:13
5	09:05		11:16 (11)	08:19		08:55 (12)	07:09			06:43		05:24	04:28
	15:51	58	13:02 (10)	16:55	22	09:17 (12)	18:01			20:10		21:16	22:15
6	09:04		11:18 (11)	08:16		08:56 (12)	07:06		07:40 (13)	06:40		05:22	04:27
	15:52	57	13:03 (10)	16:58	22	09:18 (12)	18:03	3	07:43 (13)	20:12		21:18	22:16
7	09:04		11:19 (11)	08:14		08:55 (12)	07:03		07:34 (13)	06:37		05:19	04:26
	15:54	54	13:03 (10)	17:00	22	09:17 (12)	18:06	13	07:47 (13)	20:14		21:21	22:17
8	09:03		11:20 (11)	08:12		08:55 (12)	07:01		07:32 (13)	06:34		05:17	04:25
	15:56	53	13:03 (10)	17:02	23	09:18 (12)	18:08	17	07:49 (13)	20:17		21:23	22:18
9	09:02		11:21 (11)	08:10		08:55 (12)	06:58		07:30 (13)	06:32		05:15	04:25
	15:57	51	13:03 (10)	17:05	23	09:18 (12)	18:10	20	07:50 (13)	20:19		21:25	22:19
10	09:01		11:23 (11)	08:07		08:56 (12)	06:55		07:29 (13)	06:29		05:12	04:24
	15:59	48	13:04 (10)	17:07	22	09:18 (12)	18:12	23	07:52 (13)	20:21		21:27	22:20
11	09:00		11:27 (11)	08:05		08:56 (12)	06:52		07:28 (13)	06:26		05:10	04:23
	16:01	40	13:04 (10)	17:10	21	09:17 (12)	18:15	24	07:52 (13)	20:23		21:29	22:21
12	08:59		12:27 (10)	08:03		08:57 (12)	06:50		07:27 (13)	06:23		05:08	04:23
	16:03	37	13:04 (10)	17:12	20	09:17 (12)	18:17	26	07:53 (13)	20:25		21:31	22:22
13	08:58		12:28 (10)	08:00		08:57 (12)	06:47		07:26 (13)	06:21		05:06	04:22
	16:05	37	13:05 (10)	17:14	19	09:16 (12)	18:19	26	07:52 (13)	20:28		21:33	22:23
14	08:57		12:28 (10)	07:58		08:58 (12)	06:44		07:25 (13)	06:18		05:04	04:22
	16:06	36	13:04 (10)	17:17	16	09:14 (12)	18:21	27	07:52 (13)	20:30		21:36	22:24
15	08:56		12:29 (10)	07:55		09:00 (12)	06:41		07:26 (13)	06:15		05:02	04:21
	16:08	36	13:05 (10)	17:19	13	09:13 (12)	18:24	27	07:53 (13)	20:32		21:38	22:25
16	08:54		12:30 (10)	07:53		09:03 (12)	06:38		07:25 (13)	06:12		05:00	04:21
	16:10	34	13:04 (10)	17:22	7	09:10 (12)	18:26	27	07:52 (13)	20:34		21:40	22:25
17	08:53		12:30 (10)	07:51			06:36		07:25 (13)	06:10		04:58	04:21
	16:12	34	13:04 (10)	17:24			18:28	26	07:51 (13)	20:36		21:42	22:26
18	08:52		12:32 (10)	07:48			06:33		07:25 (13)	06:07		04:56	04:21
	16:15	32	13:04 (10)	17:26			18:30	25	07:50 (13)	20:39		21:44	22:26
19	08:50		12:33 (10)	07:46			06:30		07:26 (13)	06:04		04:54	04:21
	16:17	31	13:04 (10)	17:29			18:32	23	07:49 (13)	20:41		21:46	22:27
20	08:49		12:34 (10)	07:43			06:27		07:26 (13)	06:02		04:52	04:21
	16:19	29	13:03 (10)	17:31			18:35	21	07:47 (13)	20:43		21:48	22:27
21	08:47		12:35 (10)	07:40			06:25		07:28 (13)	05:59		04:50	04:21
	16:21	27	13:02 (10)	17:33			18:37	18	07:46 (13)	20:45		21:50	22:28
22	08:46		12:36 (10)	07:38			06:22		07:30 (13)	05:57		04:48	04:21
	16:23	26	13:02 (10)	17:36			18:39	13	07:43 (13)	20:48		21:52	22:28
23	08:44		12:38 (10)	07:35			06:19		07:34 (13)	05:54		04:46	04:21
	16:25	23	13:01 (10)	17:38			18:41	4	07:38 (13)	20:50		21:53	22:28
24	08:42		12:40 (10)	07:33			06:16			05:51		04:45	04:22
	16:28	19	12:59 (10)	17:40			18:44			20:52		21:55	22:28
25	08:41		12:42 (10)	07:30			06:13			05:49		04:43	04:22
	16:30	15	12:57 (10)	17:43			18:46			20:54		21:57	22:28
26	08:39		12:46 (10)	07:27			06:11			05:46		04:41	04:22
	16:32	8	12:54 (10)	17:45			18:48			20:56		21:59	22:28
27	08:37			07:25			06:08			05:44		04:40	04:23
	16:34			17:47			18:50			20:59		22:01	22:28
28	08:35			07:22			06:05			05:41		04:38	04:24
	16:37			17:50			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		09:04 (12)				06:59			05:36		04:35	04:25
	16:41	3	09:07 (12)				19:57			21:05		22:06	22:27
31	08:29		09:02 (12)				06:57					04:34	
	16:44	9	09:11 (12)				19:59					22:07	
Potential sun hours	227			262			365			429		515	539
Total, worst case		1038			299			363					
Sun reduction		0.13			0.22			0.37					
Oper. time red.		0.93			0.93			0.93					
Wind dir. red.		0.65			0.63			0.61					
Total reduction		0.08			0.13			0.21					
Total, real		83			39			75					

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		08:05 (13)	07:34		08:25 (12)	08:39		11:10 (11)
	22:26	21:41	20:23			18:59	27	08:32 (13)	16:38	23	08:48 (12)	15:43	40	12:47 (10)
2	04:27	05:17	06:23			07:27		08:05 (13)	07:36		08:25 (12)	08:41		11:07 (11)
	22:26	21:39	20:21			18:57	26	08:31 (13)	16:36	22	08:47 (12)	15:42	47	12:47 (10)
3	04:28	05:19	06:25			07:29		08:06 (13)	07:38		08:25 (12)	08:43		11:05 (11)
	22:25	21:37	20:18			18:54	23	08:29 (13)	16:33	23	08:48 (12)	15:41	51	12:47 (10)
4	04:29	05:21	06:27			07:31		08:07 (13)	07:41		08:25 (12)	08:44		11:05 (11)
	22:24	21:35	20:15			18:51	22	08:29 (13)	16:31	22	08:47 (12)	15:40	53	12:48 (10)
5	04:30	05:23	06:29			07:33		08:08 (13)	07:43		08:25 (12)	08:46		11:04 (11)
	22:24	21:33	20:12			18:48	19	08:27 (13)	16:29	22	08:47 (12)	15:39	56	12:49 (10)
6	04:31	05:25	06:31			07:35		08:09 (13)	07:45		08:25 (12)	08:48		11:03 (11)
	22:23	21:30	20:10			18:46	16	08:25 (13)	16:26	21	08:46 (12)	15:39	57	12:48 (10)
7	04:32	05:28	06:34			07:37		08:12 (13)	07:47		08:26 (12)	08:49		11:03 (11)
	22:22	21:28	20:07			18:43	9	08:21 (13)	16:24	20	08:46 (12)	15:38	58	12:49 (10)
8	04:33	05:30	06:36			07:40			07:50		08:27 (12)	08:51		11:03 (11)
	22:21	21:26	20:04			18:40			16:22	19	08:46 (12)	15:37	60	12:50 (10)
9	04:35	05:32	06:38			07:42			07:52		08:28 (12)	08:52		11:04 (11)
	22:20	21:23	20:01			18:37			16:20	17	08:45 (12)	15:37	59	12:50 (10)
10	04:36	05:34	06:40			07:44			07:54		08:31 (12)	08:54		11:03 (11)
	22:19	21:21	19:58			18:35			16:18	13	08:44 (12)	15:36	61	12:50 (10)
11	04:37	05:36	06:42			07:46			07:57		08:33 (12)	08:55		11:04 (11)
	22:18	21:18	19:56			18:32			16:16	8	08:41 (12)	15:36	61	12:51 (10)
12	04:39	05:38	06:44			07:48			07:59		08:36 (12)	08:56		11:04 (11)
	22:16	21:16	19:53			18:29			16:14	2	08:38 (12)	15:35	61	12:51 (10)
13	04:40	05:40	06:46			07:51			08:01			08:57		11:04 (11)
	22:15	21:13	19:50			18:26			16:12			15:35	62	12:51 (10)
14	04:42	05:42	06:48			07:53			08:03			08:59		11:05 (11)
	22:14	21:11	19:47			18:24			16:10			15:35	63	12:53 (10)
15	04:43	05:45	06:50			07:55			08:06			09:00		11:05 (11)
	22:12	21:08	19:44			18:21			16:08			15:35	62	12:53 (10)
16	04:45	05:47	06:53			07:57			08:08		12:19 (10)	09:01		11:05 (11)
	22:11	21:06	19:42			18:18			16:06	8	12:27 (10)	15:35	63	12:53 (10)
17	04:47	05:49	06:55			07:59			08:10		12:16 (10)	09:02		11:05 (11)
	22:09	21:03	19:39			18:16			16:04	15	12:31 (10)	15:35	65	12:54 (10)
18	04:48	05:51	06:57			08:02			08:12		12:13 (10)	09:02		11:06 (11)
	22:08	21:01	19:36			18:13			16:02	20	12:33 (10)	15:35	63	12:54 (10)
19	04:50	05:53	06:59			08:04			08:15		12:13 (10)	09:03		11:05 (11)
	22:06	20:58	19:33			18:10			16:00	23	12:36 (10)	15:35	64	12:54 (10)
20	04:52	05:55	07:01			08:06			08:17		12:11 (10)	09:04		11:06 (11)
	22:05	20:56	19:30			18:08			15:59	26	12:37 (10)	15:36	64	12:55 (10)
21	04:54	05:57	07:03		08:17 (13)	08:08			08:19		12:11 (10)	09:05		11:07 (11)
	22:03	20:53	19:27	11	08:28 (13)	18:05			15:57	27	12:38 (10)	15:36	65	12:56 (10)
22	04:55	06:00	07:05		08:14 (13)	08:11			08:21		12:10 (10)	09:05		11:07 (11)
	22:01	20:50	19:25	16	08:30 (13)	18:03			15:55	29	12:39 (10)	15:36	65	12:56 (10)
23	04:57	06:02	07:07		08:12 (13)	08:13			08:23		12:09 (10)	09:06		11:08 (11)
	21:59	20:48	19:22	19	08:31 (13)	18:00			15:54	31	12:40 (10)	15:37	65	12:57 (10)
24	04:59	06:04	07:10		08:10 (13)	08:15			08:25		12:09 (10)	09:06		11:08 (11)
	21:58	20:45	19:19	22	08:32 (13)	17:58			15:52	32	12:41 (10)	15:37	64	12:57 (10)
25	05:01	06:06	07:12		08:08 (13)	07:18			08:27		12:08 (10)	09:06		11:09 (11)
	21:56	20:42	19:16	25	08:33 (13)	16:55			15:51	34	12:42 (10)	15:38	63	12:57 (10)
26	05:03	06:08	07:14		08:07 (13)	07:20		08:31 (12)	08:29		12:09 (10)	09:07		11:09 (11)
	21:54	20:40	19:13	26	08:33 (13)	16:53	9	08:40 (12)	15:49	34	12:43 (10)	15:39	64	12:58 (10)
27	05:05	06:10	07:16		08:06 (13)	07:22		08:29 (12)	08:31		12:08 (10)	09:07		11:10 (11)
	21:52	20:37	19:11	27	08:33 (13)	16:50	14	08:43 (12)	15:48	36	12:44 (10)	15:40	63	12:58 (10)
28	05:07	06:12	07:18		08:07 (13)	07:24		08:27 (12)	08:33		12:08 (10)	09:07		11:10 (11)
	21:50	20:34	19:08	27	08:34 (13)	16:48	17	08:44 (12)	15:47	36	12:44 (10)	15:41	64	12:59 (10)
29	05:09	06:14	07:20		08:06 (13)	07:27		08:27 (12)	08:35		12:08 (10)	09:07		11:11 (11)
	21:48	20:32	19:05	27	08:33 (13)	16:45	19	08:46 (12)	15:45	37	12:45 (10)	15:42	63	12:59 (10)
30	05:11	06:17	07:22		08:06 (13)	07:29		08:25 (12)	08:37		12:08 (10)	09:07		11:11 (11)
	21:46	20:29	19:02	27	08:33 (13)	16:43	21	08:46 (12)	15:44	37	12:45 (10)	15:43	62	12:59 (10)
31	05:13	06:19				07:31		08:25 (12)				09:07		11:12 (11)
	21:44	20:26				16:40	22	08:47 (12)				15:44	62	13:00 (10)
Potential sun hours	539	475	386			321			241			207		
Total, worst case				227			244			637			1870	
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				55			43			59			144	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:26 (10)
	15:45			16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:23	18:59	16:38			15:43	18	09:44 (10)
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		09:27 (10)
	15:47			16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	17	09:44 (10)
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		09:28 (10)
	15:48			16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	15	09:43 (10)
4	09:06		09:48 (10)	08:21	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:29 (10)
	15:49	3	09:51 (10)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	14	09:43 (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	7	09:54 (10)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	12	09:43 (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	10	09:56 (10)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	10	09:42 (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	12	09:58 (10)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	8	09:41 (10)
8	09:03		09:45 (10)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:36 (10)
	15:56	14	09:59 (10)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	3	09:39 (10)
9	09:02		09:44 (10)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52			08:52		
	15:57	15	09:59 (10)	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		09:44 (10)	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54		09:29 (10)	08:54		
	15:59	17	10:01 (10)	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	2	09:31 (10)	15:36		
11	09:00		09:44 (10)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		09:24 (10)	08:55		
	16:01	18	10:02 (10)	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	11	09:35 (10)	15:36		
12	08:59		09:43 (10)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59		09:23 (10)	08:56		
	16:03	19	10:02 (10)	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14	14	09:37 (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		09:21 (10)	08:58		
	16:05	20	10:04 (10)	17:14	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:26	16:12	17	09:38 (10)	15:35		
14	08:57		09:43 (10)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		09:21 (10)	08:59		
	16:07	21	10:04 (10)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	19	09:40 (10)	15:35		
15	08:56		09:43 (10)	07:56	06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06		09:21 (10)	09:00		
	16:08	22	10:05 (10)	17:19	18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08	20	09:41 (10)	15:35		
16	08:55		09:43 (10)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:20 (10)	09:01		
	16:10	23	10:06 (10)	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	21	09:41 (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		09:20 (10)	09:02		
	16:13	23	10:06 (10)	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	22	09:42 (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		09:19 (10)	09:03		
	16:15	23	10:07 (10)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	23	09:42 (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		09:20 (10)	09:03		
	16:17	24	10:08 (10)	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00	23	09:43 (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	24	10:08 (10)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	24	09:43 (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	24	10:08 (10)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	24	09:44 (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	24	10:08 (10)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	24	09:44 (10)	15:36		
23	08:44		09:45 (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	23	10:08 (10)	17:38	18:41	20:50	21:53	22:28	22:00	20:48	19:22	18:00	15:54	24	09:45 (10)	15:37		
24	08:42		09:45 (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	23	10:08 (10)	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	23	09:44 (10)	15:38		
25	08:41		09:46 (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	22	10:08 (10)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	23	09:44 (10)	15:38		
26	08:39		09:47 (10)	07:28	06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:22 (10)	09:07		
	16:32	21	10:08 (10)	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:49	23	09:45 (10)	15:39		
27	08:37		09:48 (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	20	10:08 (10)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	21	09:44 (10)	15:40		
28	08:35		09:49 (10)	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:33		09:23 (10)	09:07		
	16:37	19	10:08 (10)	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	21	09:44 (10)	15:41		
29	08:33		09:49 (10)		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:24 (10)	09:07		
	16:39	17	10:06 (10)		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	20	09:44 (10)	15:42		
30	08:31		09:51 (10)		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:25 (10)	09:07		
	16:41	14	10:05 (10)		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	19	09:44 (10)	15:43		
31	08:29		09:53 (10)		06:57		04:34		05:13	06:19		07:31				09:07		
	16:44	11	10:04 (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		513												418			97	
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												38			7	

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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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	08:10 (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	9 08:19 (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	08:40 (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	10 08:50 (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	08:38 (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	14 08:52 (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	08:37 (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 08:54 (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	08:35 (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 08:55 (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	08:35 (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	21 08:56 (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	08:34 (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 08:56 (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	08:33 (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 08:56 (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	08:34 (3)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		09:11 (3)	08:10	09:02
	16:13	17:24	23 08:57 (3)	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	11	09:22 (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		09:08 (3)	08:13	09:03
	16:15	17:27	24 08:57 (3)	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	15	09:23 (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		09:06 (3)	08:15	09:03
	16:17	17:29	23 08:56 (3)	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	18	09:24 (3)	16:01	15:36
20	08:49	07:43	08:34 (3)	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06		09:05 (3)	08:17	09:04
	16:19	17:31	22 08:56 (3)	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	21	09:26 (3)	15:59	15:36
21	08:47	07:41	08:34 (3)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		09:04 (3)	08:19	09:05
	16:21	17:34	22 08:56 (3)	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06	22	09:26 (3)	15:57	15:36
22	08:46	07:38	08:35 (3)	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11		09:04 (3)	08:21	09:05
	16:23	17:36	19 08:54 (3)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	23	09:27 (3)	15:56	15:37
23	08:44	07:36	08:36 (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	18 08:54 (3)	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	24	09:27 (3)	15:54	15:37
24	08:42	07:33	08:38 (3)	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15		09:04 (3)	08:25	09:06
	16:28	17:41	14 08:52 (3)	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	23	09:27 (3)	15:53	15:38
25	08:41	07:30	08:40 (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	8 08:48 (3)	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	23	08:26 (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		08:04 (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	23	08:27 (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		08:04 (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	08:26 (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		08:05 (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	20	08:25 (3)	15:47	15:41
29	08:33			07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27		08:05 (3)	08:35	09:07
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	19	08:24 (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	17	08:23 (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	14	08:21 (3)		15:44
Potential sun hours	227	262		365	429	515	539	538	474	386	321		241		207
Total, worst case			300									295		9	
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			39									52		1	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	32	08:18 (3)	08:50 (3)	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		08:18 (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	31	08:49 (3)	16:36	15:42
3	09:06	08:23	07:14		07:54 (3)	06:48	05:29	04:31	04:28	05:19	06:25		07:29		08:19 (3)	07:38	08:43
	15:48	16:51	17:57	7	08:01 (3)	20:06	21:12	22:12	22:25	21:37	20:18		18:54	31	08:50 (3)	16:34	15:41
4	09:06	08:21	07:12		07:50 (3)	06:46	05:27	04:30	04:29	05:22	06:27		07:31		08:19 (3)	07:41	08:45
	15:50	16:53	17:59	15	08:05 (3)	20:08	21:14	22:13	22:24	21:35	20:15		18:51	30	08:49 (3)	16:31	15:41
5	09:05	08:19	07:09		07:47 (3)	06:43	05:24	04:29	04:30	05:24	06:30		07:33		08:19 (3)	07:43	08:46
	15:51	16:56	18:01	20	08:07 (3)	20:10	21:16	22:15	22:24	21:33	20:13		18:49	28	08:47 (3)	16:29	15:40
6	09:04	08:17	07:06		07:45 (3)	06:40	05:22	04:28	04:31	05:26	06:32		07:35		08:19 (3)	07:45	08:48
	15:53	16:58	18:04	23	08:08 (3)	20:12	21:19	22:16	22:23	21:30	20:10		18:46	27	08:46 (3)	16:27	15:39
7	09:04	08:14	07:04		07:44 (3)	06:37	05:20	04:27	04:32	05:28	06:34		07:38		08:21 (3)	07:48	08:49
	15:54	17:00	18:06	25	08:09 (3)	20:15	21:21	22:17	22:22	21:28	20:07		18:43	24	08:45 (3)	16:25	15:38
8	09:03	08:12	07:01		07:42 (3)	06:35	05:17	04:26	04:34	05:30	06:36		07:40		08:22 (3)	07:50	08:51
	15:56	17:03	18:08	28	08:10 (3)	20:17	21:23	22:18	22:21	21:26	20:04		18:40	21	08:43 (3)	16:22	15:38
9	09:02	08:10	06:58		07:42 (3)	06:32	05:15	04:25	04:35	05:32	06:38		07:42		08:23 (3)	07:52	08:52
	15:58	17:05	18:10	29	08:11 (3)	20:19	21:25	22:19	22:20	21:23	20:01		18:38	18	08:41 (3)	16:20	15:37
10	09:01	08:08	06:55		07:41 (3)	06:29	05:13	04:24	04:36	05:34	06:40		07:44		08:25 (3)	07:55	08:54
	15:59	17:08	18:13	30	08:11 (3)	20:21	21:27	22:21	22:19	21:21	19:59		18:35	13	08:38 (3)	16:18	15:37
11	09:00	08:05	06:53		07:40 (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	31	08:11 (3)	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		07:39 (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	32	08:11 (3)	20:26	21:31	22:22	22:17	21:16	19:53		18:29			16:14	15:36
13	08:58	08:00	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	32	08:11 (3)	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		07:40 (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	31	08:11 (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		07:09 (4)	06:15	05:02	04:22	04:44	05:45	06:51		07:55			08:06	09:00
	16:09	17:19	18:24	38	08:10 (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		07:05 (4)	06:13	05:00	04:21	04:45	05:47	06:53	07:52 (4)	07:57			08:08	09:01
	16:11	17:22	18:26	43	08:09 (3)	20:34	21:40	22:25	22:11	21:06	19:42	10 08:02 (4)	18:19			16:06	15:35
17	08:53	07:51	06:36		07:03 (4)	06:10	04:58	04:21	04:47	05:49	06:55	07:50 (4)	08:00			08:10	09:02
	16:13	17:24	18:28	44	08:08 (3)	20:37	21:42	22:26	22:10	21:04	19:39	15 08:05 (4)	18:16			16:04	15:35
18	08:52	07:48	06:33		07:02 (4)	06:07	04:56	04:21	04:49	05:51	06:57	07:48 (4)	08:02			08:13	09:03
	16:15	17:27	18:30	45	08:07 (3)	20:39	21:44	22:27	22:08	21:01	19:36	18 08:06 (4)	18:13			16:02	15:35
19	08:50	07:46	06:30		07:00 (4)	06:05	04:54	04:21	04:50	05:53	06:59	07:47 (4)	08:04			08:15	09:03
	16:17	17:29	18:33	44	08:05 (3)	20:41	21:46	22:27	22:06	20:58	19:33	19 08:06 (4)	18:11			16:01	15:36
20	08:49	07:43	06:28		07:00 (4)	06:02	04:52	04:21	04:52	05:56	07:01	07:46 (4)	08:06			08:17	09:04
	16:19	17:31	18:35	43	08:04 (3)	20:43	21:48	22:27	22:05	20:56	19:31	20 08:06 (4)	18:08			15:59	15:36
21	08:47	07:41	06:25		07:00 (4)	05:59	04:50	04:21	04:54	05:58	07:03	07:45 (4)	08:09			08:19	09:05
	16:21	17:34	18:37	39	08:02 (3)	20:45	21:50	22:28	22:03	20:53	19:28	31 08:43 (3)	18:06			15:57	15:36
22	08:46	07:38	06:22		06:59 (4)	05:57	04:48	04:21	04:56	06:00	07:06	07:44 (4)	08:11			08:21	09:05
	16:23	17:36	18:39	33	07:58 (3)	20:48	21:52	22:28	22:01	20:51	19:25	39 08:46 (3)	18:03			15:56	15:37
23	08:44	07:36	06:19		06:59 (4)	05:54	04:47	04:22	04:58	06:02	07:08	07:44 (4)	08:13			08:23	09:06
	16:26	17:38	18:42	21	07:20 (4)	20:50	21:54	22:28	22:00	20:48	19:22	41 08:47 (3)	18:00			15:54	15:37
24	08:42	07:33	06:16		06:59 (4)	05:52	04:45	04:22	05:00	06:04	07:10	07:44 (4)	08:15			08:25	09:06
	16:28	17:41	18:44	20	07:19 (4)	20:52	21:55	22:28	21:58	20:45	19:19	44 08:49 (3)	17:58			15:53	15:38
25	08:41	07:30	06:14		07:00 (4)	05:49	04:43	04:22	05:01	06:06	07:12	07:44 (4)	07:18			08:28	09:07
	16:30	17:43	18:46	18	07:18 (4)	20:54	21:57	22:28	21:56	20:43	19:16	45 08:49 (3)	16:55			15:51	15:38
26	08:39	07:28	06:11		07:01 (4)	05:46	04:42	04:23	05:03	06:08	07:14	07:45 (4)	07:20			08:30	09:07
	16:32	17:45	18:48	15	07:16 (4)	20:57	21:59	22:28	21:54	20:40	19:14	45 08:50 (3)	16:53			15:50	15:39
27	08:37	07:25	06:08		07:03 (4)	05:44	04:40	04:23	05:05	06:10	07:16	07:46 (4)	07:22			08:32	09:07
	16:35	17:48	18:50	11	07:14 (4)	20:59	22:01	22:28	21:52	20:37	19:11	44 08:51 (3)	16:50			15:48	15:40
28	08:35	07:22	06:05		07:06 (4)	05:41	04:39	04:24	05:07	06:13	07:18	07:48 (4)	07:25			08:34	09:07
	16:37	17:50	18:53	3	07:09 (4)	21:01	22:02	22:27	21:50	20:35	19:08	40 08:51 (3)	16:48			15:47	15:41
29	08:33		07:02			05:39	04:37	04:25	05:09	06:15	07:20	08:20 (3)	07:27			08:35	09:07
	16:39		19:55			21:03	22:04	22:27	21:48	20:32	19:05	31 08:51 (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	32 08:51 (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				720							474		255		
Sun reduction				0.37							0.43		0.31		
Oper. time red.				0.93							0.93		0.93		
Wind dir. red.				0.60							0.61		0.59		
Total reduction				0.20							0.24		0.17		
Total, real				147							115		43		

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	08:05 (10)	06:54	05:34	04:33
	15:46	34 13:32 (3)	16:46		17:52	20 08:25 (10)	20:01	21:08	22:09
2	09:06	11:15 (1)	08:25		07:17	08:05 (10)	06:51	05:31	04:32
	15:47	27 13:30 (3)	16:48		17:54	19 08:24 (10)	20:03	21:10	22:10
3	09:06	11:15 (1)	08:23		07:14	08:06 (10)	06:48	05:29	04:30
	15:48	21 11:56 (4)	16:51		17:57	17 08:23 (10)	20:06	21:12	22:12
4	09:06	11:16 (1)	08:21		07:12	08:08 (10)	06:46	05:26	04:29
	15:50	16 11:54 (4)	16:53		17:59	14 08:22 (10)	20:08	21:14	22:13
5	09:05	11:19 (1)	08:19		07:09	08:10 (10)	06:43	05:24	04:28
	15:51	10 11:29 (1)	16:55		18:01	9 08:19 (10)	20:10	21:16	22:15
6	09:04	11:21 (1)	08:17		07:06		06:40	05:22	04:27
	15:53	7 11:28 (1)	16:58		18:03		20:12	21:19	22:16
7	09:04		08:14		07:03		06:37	05:19	04:26
	15:54		17:00		18:06		20:14	21:21	22:17
8	09:03		08:12		07:01		06:34	05:17	04:26
	15:56		17:03		18:08		20:17	21:23	22:18
9	09:02		08:10		06:58		06:32	05:15	04:25
	15:57		17:05		18:10		20:19	21:25	22:19
10	09:01		08:08		06:55		06:29	05:13	04:24
	15:59		17:07		18:12		20:21	21:27	22:21
11	09:00		08:05		06:52		06:26	05:10	04:23
	16:01		17:10		18:15		20:23	21:29	22:22
12	08:59		08:03		06:50		06:23	05:08	04:23
	16:03		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	08:12 (10)	06:27		06:02	04:52	04:21
	16:19		17:31	10 08:22 (10)	18:35		20:43	21:48	22:27
21	08:47		07:41	08:09 (10)	06:25		05:59	04:50	04:21
	16:21		17:33	14 08:23 (10)	18:37		20:45	21:50	22:28
22	08:46		07:38	08:07 (10)	06:22		05:57	04:48	04:21
	16:23		17:36	17 08:24 (10)	18:39		20:48	21:52	22:28
23	08:44		07:35	08:06 (10)	06:19		05:54	04:47	04:21
	16:25		17:38	19 08:25 (10)	18:41		20:50	21:53	22:28
24	08:42		07:33	08:06 (10)	06:16		05:51	04:45	04:22
	16:28		17:40	20 08:26 (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	21 08:26 (10)	18:46		20:54	21:57	22:28
26	08:39		07:28	08:04 (10)	06:11		05:46	04:42	04:23
	16:32		17:45	22 08:26 (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	22 08:26 (10)	18:50		20:59	22:01	22:28
28	08:35		07:22	08:05 (10)	06:05		05:41	04:38	04:24
	16:37		17:50	21 08:26 (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		115		166		79			
Sun reduction		0.13		0.22		0.37			
Oper. time red.		0.93		0.93		0.93			
Wind dir. red.		0.64		0.61		0.61			
Total reduction		0.08		0.12		0.21			
Total, real		9		21		16			

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)

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17.09.2025 17:50/4.1.287

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		
	22:26	21:42	20:24	19:00		16:38	15:43		
2	04:27	05:17	06:23	07:27		07:36	08:41		
	22:26	21:39	20:21	18:57		16:36	15:42		
3	04:28	05:19	06:25	07:29		07:38	08:43		
	22:25	21:37	20:18	18:54		16:33	15:41		
4	04:29	05:21	06:27	07:31		07:41	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	08:46		
	22:24	21:33	20:12	18:48		16:29	15:40		
6	04:31	05:26	06:32	07:35		07:45	08:48		11:07 (1)
	22:23	21:30	20:10	18:46		16:27	15:39	7	11:14 (1)
7	04:32	05:28	06:34	07:38		07:48	08:49		11:05 (1)
	22:22	21:28	20:07	18:43		16:24	15:38	10	11:15 (1)
8	04:33	05:30	06:36	07:40	08:48 (10)	07:50	08:51		11:05 (1)
	22:21	21:26	20:04	18:40	4 08:52 (10)	16:22	15:37	13	11:41 (4)
9	04:35	05:32	06:38	07:42	08:43 (10)	07:52	08:52		11:05 (1)
	22:20	21:23	20:01	18:37	12 08:55 (10)	16:20	15:37	20	11:45 (4)
10	04:36	05:34	06:40	07:44	08:41 (10)	07:54	08:54		11:04 (1)
	22:19	21:21	19:59	18:35	15 08:56 (10)	16:18	15:36	25	11:46 (4)
11	04:37	05:36	06:42	07:46	08:40 (10)	07:57	08:55		11:04 (1)
	22:18	21:18	19:56	18:32	18 08:58 (10)	16:16	15:36	33	13:22 (3)
12	04:39	05:38	06:44	07:49	08:39 (10)	07:59	08:56		11:04 (1)
	22:17	21:16	19:53	18:29	20 08:59 (10)	16:14	15:36	38	13:23 (3)
13	04:40	05:40	06:46	07:51	08:38 (10)	08:01	08:58		11:04 (1)
	22:15	21:14	19:50	18:27	21 08:59 (10)	16:12	15:35	41	13:24 (3)
14	04:42	05:43	06:48	07:53	08:38 (10)	08:04	08:59		11:04 (1)
	22:14	21:11	19:47	18:24	21 08:59 (10)	16:10	15:35	45	13:26 (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	22 08:59 (10)	16:08	15:35	47	13:27 (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	21 08:58 (10)	16:06	15:35	48	13:28 (3)
17	04:47	05:49	06:55	08:00	08:37 (10)	08:10	09:02		11:05 (1)
	22:10	21:03	19:39	18:16	21 08:58 (10)	16:04	15:35	50	13:28 (3)
18	04:48	05:51	06:57	08:02	08:37 (10)	08:13	09:03		11:05 (1)
	22:08	21:01	19:36	18:13	20 08:57 (10)	16:02	15:35	51	13:29 (3)
19	04:50	05:53	06:59	08:04	08:37 (10)	08:15	09:03		11:05 (1)
	22:06	20:58	19:33	18:11	19 08:56 (10)	16:00	15:35	52	13:29 (3)
20	04:52	05:55	07:01	08:06	08:39 (10)	08:17	09:04		11:06 (1)
	22:05	20:56	19:30	18:08	16 08:55 (10)	15:59	15:36	52	13:30 (3)
21	04:54	05:57	07:03	08:09	08:40 (10)	08:19	09:05		11:07 (1)
	22:03	20:53	19:28	18:05	13 08:53 (10)	15:57	15:36	52	13:31 (3)
22	04:56	06:00	07:05	08:11	08:43 (10)	08:21	09:05		11:07 (1)
	22:01	20:50	19:25	18:03	8 08:51 (10)	15:55	15:36	53	13:31 (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	52	13:32 (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	52	13:32 (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	51	13:32 (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	50	13:32 (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	48	13:32 (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	48	13:33 (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	45	13:33 (3)
30	05:11	06:17	07:22	07:29		08:37	09:07		11:12 (1)
	21:46	20:29	19:02	16:43		15:44	15:43	42	13:33 (3)
31	05:13	06:19		07:31			09:07		11:12 (1)
	21:44	20:26		16:40			15:44	41	13:32 (3)
Potential sun hours	538	475	386	321		241	207		
Total, worst case					251			1066	
Sun reduction					0.31			0.13	
Oper. time red.					0.93			0.93	
Wind dir. red.					0.61			0.64	
Total reduction					0.17			0.08	
Total, real					43			81	

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)

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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	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	15:42
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	20:34	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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:32	22:22	22:17	21:16	19:53	18:29	16:14	15:36
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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 17:50 (8)	05:34	04:33	04:26	05:15	06:21	07:24 17:47 (8)	07:33	08:39
	15:45	16:46	17:52	20:01 44 18:34 (8)	21:07	22:08	22:26	21:41	20:23	18:59 19 18:06 (8)	16:38	15:43
2	09:06	08:25	07:17	06:51 17:51 (8)	05:31	04:32	04:27	05:17	06:23 18:04 (8)	07:26 17:52 (8)	07:36	08:41
	15:47	16:48	17:54	20:03 42 18:33 (8)	21:09	22:10	22:25	21:39	20:20 10 18:14 (8)	18:57 9 18:01 (8)	16:36	15:42
3	09:06	08:23	07:14	06:48 17:51 (8)	05:29	04:30	04:28	05:19	06:25 17:59 (8)	07:29	07:38	08:42
	15:48	16:51	17:56	20:05 40 18:31 (8)	21:12	22:11	22:25	21:37	20:18 19 18:18 (8)	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45 17:52 (8)	05:26	04:29	04:29	05:21	06:27 17:56 (8)	07:31	07:40	08:44
	15:49	16:53	17:59	20:08 38 18:30 (8)	21:14	22:13	22:24	21:35	20:15 24 18:20 (8)	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43 17:53 (8)	05:24	04:28	04:30	05:23	06:29 17:53 (8)	07:33	07:43	08:46
	15:51	16:55	18:01	20:10 36 18:29 (8)	21:16	22:14	22:23	21:32	20:12 29 18:22 (8)	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40 17:54 (8)	05:22	04:27	04:31	05:25	06:31 17:51 (8)	07:35	07:45	08:47
	15:52	16:58	18:03	20:12 33 18:27 (8)	21:18	22:15	22:22	21:30	20:09 32 18:23 (8)	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37 17:56 (8)	05:19	04:26	04:32	05:28	06:34 17:49 (8)	07:37	07:47	08:49
	15:54	17:00	18:05	20:14 29 18:25 (8)	21:20	22:17	22:22	21:28	20:07 35 18:24 (8)	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34 17:58 (8)	05:17	04:26	04:33	05:30	06:36 17:47 (8)	07:39	07:50	08:50
	15:56	17:02	18:08	20:16 24 18:22 (8)	21:22	22:18	22:21	21:25	20:04 38 18:25 (8)	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31 18:01 (8)	05:15	04:25	04:35	05:32	06:38 17:45 (8)	07:42	07:52	08:52
	15:57	17:05	18:10	20:19 19 18:20 (8)	21:25	22:19	22:20	21:23	20:01 40 18:25 (8)	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29 18:05 (8)	05:12	04:24	04:36	05:34	06:40 17:44 (8)	07:44	07:54	08:53
	15:59	17:07	18:12	20:21 10 18:15 (8)	21:27	22:20	22:18	21:20	19:58 42 18:26 (8)	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 17:43 (8)	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55 43 18:26 (8)	18:32	16:16	15:36
12	08:59	08:02	06:49 17:10 (8)	06:23	05:08	04:23	04:39	05:38	06:44 17:42 (8)	07:48	07:59	08:56
	16:03	17:12	18:17 15 17:25 (8)	20:25	21:31	22:22	22:16	21:16	19:53 44 18:26 (8)	18:29	16:14	15:36
13	08:58	08:00	06:47 17:06 (8)	06:21	05:06	04:22	04:40	05:40	06:46 17:41 (8)	07:50	08:01	08:57
	16:05	17:14	18:19 23 17:29 (8)	20:27	21:33	22:23	22:15	21:13	19:50 45 18:26 (8)	18:26	16:12	15:35
14	08:57	07:58	06:44 17:03 (8)	06:18	05:04	04:22	04:42	05:42	06:48 17:40 (8)	07:53	08:03	08:58
	16:07	17:17	18:21 28 17:31 (8)	20:30	21:35	22:24	22:13	21:11	19:47 46 18:26 (8)	18:24	16:10	15:35
15	08:55	07:55	06:41 17:01 (8)	06:15	05:02	04:22	04:43	05:45	06:50 17:39 (8)	07:55	08:05	08:59
	16:08	17:19	18:23 31 17:32 (8)	20:32	21:37	22:24	22:12	21:08	19:44 47 18:26 (8)	18:21	16:08	15:35
16	08:54	07:53	06:38 16:59 (8)	06:12	05:00	04:21	04:45	05:47	06:52 17:39 (8)	07:57	08:08	09:00
	16:10	17:21	18:26 35 17:34 (8)	20:34	21:39	22:25	22:11	21:06	19:41 47 18:26 (8)	18:18	16:06	15:35
17	08:53	07:50	06:36 16:58 (8)	06:10	04:58	04:21	04:47	05:49	06:55 17:38 (8)	07:59	08:10	09:01
	16:13	17:24	18:28 37 17:35 (8)	20:36	21:41	22:26	22:09	21:03	19:39 47 18:25 (8)	18:16	16:04	15:35
18	08:51	07:48	06:33 16:56 (8)	06:07	04:56	04:21	04:48	05:51	06:57 17:38 (8)	08:02	08:12	09:02
	16:15	17:26	18:30 40 17:36 (8)	20:38	21:43	22:26	22:08	21:01	19:36 47 18:25 (8)	18:13	16:02	15:35
19	08:50	07:45	06:30 16:55 (8)	06:04	04:54	04:21	04:50	05:53	06:59 17:37 (8)	08:04	08:14	09:03
	16:17	17:29	18:32 41 17:36 (8)	20:41	21:45	22:26	22:06	20:58	19:33 47 18:24 (8)	18:10	16:00	15:35
20	08:48	07:43	06:27 16:53 (8)	06:02	04:52	04:21	04:52	05:55	07:01 17:37 (8)	08:06	08:17	09:04
	16:19	17:31	18:35 44 17:37 (8)	20:43	21:47	22:27	22:04	20:55	19:30 47 18:24 (8)	18:08	15:59	15:36
21	08:47	07:40	06:24 16:52 (8)	05:59	04:50	04:21	04:54	05:57	07:03 17:38 (8)	08:08	08:19	09:04
	16:21	17:33	18:37 45 17:37 (8)	20:45	21:49	22:27	22:03	20:53	19:27 46 18:24 (8)	18:05	15:57	15:36
22	08:45	07:38	06:22 16:52 (8)	05:57	04:48	04:21	04:56	05:59	07:05 17:38 (8)	08:11	08:21	09:05
	16:23	17:36	18:39 46 17:38 (8)	20:47	21:51	22:27	22:01	20:50	19:25 45 18:23 (8)	18:03	15:55	15:36
23	08:44	07:35	06:19 16:51 (8)	05:54	04:46	04:21	04:57	06:02	07:07 17:38 (8)	08:13	08:23	09:05
	16:25	17:38	18:41 47 17:38 (8)	20:50	21:53	22:27	21:59	20:47	19:22 44 18:22 (8)	18:00	15:54	15:37
24	08:42	07:33	06:16 16:51 (8)	05:51	04:45	04:22	04:59	06:04	07:09 17:38 (8)	08:15	08:25	09:06
	16:28	17:40	18:43 47 17:38 (8)	20:52	21:55	22:28	21:57	20:45	19:19 42 18:20 (8)	17:58	15:52	15:38
25	08:40	07:30	06:13 16:50 (8)	05:49	04:43	04:22	05:01	06:06	07:12 17:39 (8)	07:17	08:27	09:06
	16:30	17:43	18:46 47 17:37 (8)	20:54	21:57	22:28	21:55	20:42	19:16 40 18:19 (8)	16:55	15:51	15:38
26	08:38	07:27	06:10 16:49 (8)	05:46	04:41	04:23	05:03	06:08	07:14 17:39 (8)	07:20	08:29	09:06
	16:32	17:45	18:48 48 17:37 (8)	20:56	21:59	22:27	21:53	20:39	19:13 39 18:18 (8)	16:53	15:49	15:39
27	08:37	07:25	06:08 16:50 (8)	05:44	04:40	04:23	05:05	06:10	07:16 17:40 (8)	07:22	08:31	09:07
	16:34	17:47	18:50 47 17:37 (8)	20:58	22:00	22:27	21:51	20:37	19:10 36 18:16 (8)	16:50	15:48	15:40
28	08:35	07:22	06:05 16:50 (8)	05:41	04:38	04:24	05:07	06:12	07:18 17:41 (8)	07:24	08:33	09:07
	16:37	17:49	18:52 47 17:37 (8)	21:01	22:02	22:27	21:49	20:34	19:08 33 18:14 (8)	16:48	15:47	15:41
29	08:33		07:02 17:49 (8)	05:39	04:37	04:24	05:09	06:14	07:20 17:43 (8)	07:26	08:35	09:07
	16:39		19:54 47 18:36 (8)	21:03	22:04	22:27	21:47	20:31	19:05 29 18:12 (8)	16:45	15:46	15:42
30	08:31		06:59 17:49 (8)	05:36	04:35	04:25	05:11	06:17	07:22 17:45 (8)	07:29	08:37	09:07
	16:41		19:57 46 18:35 (8)	21:05	22:05	22:26	21:45	20:29	19:02 25 18:10 (8)	16:43	15:44	15:43
31	08:29		06:56 17:49 (8)		04:34		05:13	06:19		07:31		09:06
	16:44		19:59 45 18:34 (8)		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			806	315					1108	28		
Sun reduction			0.37	0.46					0.43	0.31		
Oper. time red.			0.93	0.93					0.93	0.93		
Wind dir. red.			0.64	0.64					0.64	0.64		
Total reduction			0.22	0.27					0.26	0.18		
Total, real			176	86					283	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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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	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
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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
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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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)		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)

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Calculated:
17.09.2025 17:50/4.1.287

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	45	10:56 (4)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	42	10:40 (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	45	10:56 (4)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	45	10:41 (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	46	10:56 (4)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	45	10:41 (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	45	10:56 (4)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	45	10:42 (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	45	10:57 (4)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29			15:40	45	10:43 (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	46	10:58 (4)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	46	10:44 (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	46	10:58 (4)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	47	10:44 (4)
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	45	10:58 (4)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	45	10:44 (4)
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	45	10:57 (4)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	46	10:45 (4)
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	43	10:57 (4)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	45	10:45 (4)
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	43	10:58 (4)	17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16			15:36	45	10:46 (4)
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	42	10:57 (4)	17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14			15:36	45	10:46 (4)
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	41	10:57 (4)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12			15:35	46	10:47 (4)
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	39	10:56 (4)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	45	10:48 (4)
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	35	10:55 (4)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08			15:35	45	10:48 (4)
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	31	10:54 (4)	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06			15:35	44	10:49 (4)
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	22	10:21 (1)	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04			15:35	44	10:49 (4)
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	20	10:20 (1)	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	43	10:50 (4)
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	20	10:20 (1)	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	42	10:50 (4)
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	19	10:20 (1)	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	43	10:50 (4)
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	17	10:19 (1)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	17	09:55 (1)	15:36	42	10:51 (4)
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	19	09:56 (1)	15:36	42	10:51 (4)
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	20	09:57 (1)	15:37	42	10:52 (4)
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	20	09:57 (1)	15:38	43	10:52 (4)
25	08:41			07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:36 (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	22	09:58 (1)	15:38	43	10:53 (4)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:37 (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	31	10:33 (4)	15:39	44	10:53 (4)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:37 (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	33	10:34 (4)	15:40	43	10:53 (4)
28	08:35			07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:34		09:36 (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	39	10:36 (4)	15:41	45	10:54 (4)
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	40	10:37 (4)	15:42	45	10:55 (4)
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	41	10:39 (4)	15:43	45	10:55 (4)
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	45	10:55 (4)
Potential sun hours	227			262	365	429	515	539	538	475	386	321	241			207		
Total, worst case		815												317			1372	
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		61												28			99	

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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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	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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:46	16:48	17:54	20:03	21:09	22:10	22:26	21:39	20:20	18:56	16:35	15:42
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	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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	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
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	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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	22:24	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	21:18	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	08:08	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	21:14	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	15:35
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	20:57	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	20:34	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)

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Calculated:
17.09.2025 17:50/4.1.287

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		06:58 (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	20	07:18 (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		06:59 (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	07:17 (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		07:00 (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	14	07:14 (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		07:03 (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	8	07:11 (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	07:06 (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	8 07:14 (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	07:02 (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	14 07:16 (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	07:00 (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 07:18 (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	06:59 (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	20 07:19 (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	06:57 (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	23 07:20 (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	06:57 (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	24 07:21 (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	24 07:20 (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		06:51			07:55	08:06	09:00
	16:09	17:20	18:24	20:32	25 07:20 (2)	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	06:55 (2)	05:00	04:22	04:45	05:47		06:53			07:57	08:08	09:01
	16:11	17:22	18:26	20:34	25 07:20 (2)	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	06:55 (2)	04:58	04:21	04:47	05:49		06:55			08:00	08:10	09:02
	16:13	17:24	18:28	20:37	25 07:20 (2)	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	06:55 (2)	04:56	04:21	04:49	05:51	07:10 (2)	06:57			08:02	08:13	09:03
	16:15	17:27	18:31	20:39	25 07:20 (2)	21:44	22:26	22:08	21:01	4 07:14 (2)	19:36			18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	06:55 (2)	04:54	04:21	04:51	05:53	07:06 (2)	06:59			08:04	08:15	09:03
	16:17	17:29	18:33	20:41	23 07:18 (2)	21:46	22:27	22:06	20:58	11 07:17 (2)	19:33			18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	06:55 (2)	04:52	04:21	04:52	05:56	07:03 (2)	07:01			08:06	08:17	09:04
	16:19	17:31	18:35	20:43	22 07:17 (2)	21:48	22:27	22:05	20:56	16 07:19 (2)	19:31			18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	06:56 (2)	04:50	04:21	04:54	05:58	07:02 (2)	07:03			08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21 07:17 (2)	21:50	22:27	22:03	20:53	18 07:20 (2)	19:28			18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	06:56 (2)	04:49	04:22	04:56	06:00	07:00 (2)	07:06			08:11	08:21	09:05
	16:24	17:36	18:39	20:48	19 07:15 (2)	21:52	22:28	22:01	20:51	21 07:21 (2)	19:25			18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	06:58 (2)	04:47	04:22	04:58	06:02	06:59 (2)	07:08			08:13	08:23	09:06
	16:26	17:38	18:42	20:50	15 07:13 (2)	21:53	22:28	21:59	20:48	23 07:22 (2)	19:22			18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	07:00 (2)	04:45	04:22	05:00	06:04	06:59 (2)	07:10			08:15	08:25	09:06
	16:28	17:41	18:44	20:52	11 07:11 (2)	21:55	22:28	21:58	20:45	23 07:22 (2)	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	06:58 (2)	07:12			07:18	08:27	09:06
	16:30	17:43	18:46	20:54		21:57	22:28	21:56	20:43	24 07:22 (2)	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	06:57 (2)	07:14			07:20	08:29	09:07
	16:32	17:45	18:48	20:57		21:59	22:28	21:54	20:40	25 07:22 (2)	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	06:57 (2)	07:16			07:22	08:31	09:07
	16:35	17:48	18:50	20:59		22:01	22:28	21:52	20:37	25 07:22 (2)	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	06:57 (2)	07:18			07:25	08:33	09:07
	16:37	17:50	18:53	21:01		22:02	22:27	21:50	20:34	25 07:22 (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	24 07:21 (2)	19:05			16:46	15:46	15:42
30	08:31		07:00	05:37		04:36	04:26	05:11	06:17	06:57 (2)	07:23			07:29	08:37	09:07
	16:42		19:57	21:05		22:06	22:27	21:46	20:29	23 07:20 (2)	19:02			16:43	15:45	15:43
31	08:29		06:57			04:35		05:13	06:19	06:57 (2)				07:31		09:07
	16:44		19:59			22:07		21:44	20:26	22 07:19 (2)				16:41		15:44
Potential sun hours	227	262	365	429		515	539	538	474		386			321	241	207
Total, worst case					342					284		60				
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					95					93		16				

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
	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	05:02	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	05:46	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	04:21	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	04:54	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	20:47	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	15:40
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	06:48	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	08:44
	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	07:42	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	22:17	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
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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
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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
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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
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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	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
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	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
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29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
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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)		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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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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
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	15:57	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	15:37
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	16:12	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
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	16:15	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	15:35
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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
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	16:37	17:50	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:42
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	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:
17.09.2025 17:50/4.1.287

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
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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
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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
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	16:11	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:18	16:06	15:35
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
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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:
17.09.2025 17:50/4.1.287

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	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
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	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
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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
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	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
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	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
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	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	08:58
	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	22:12	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	21:03	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	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		07:32		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	04:27	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	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	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	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	08:17	07:06	06:40	05:22	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	06:34	07:37	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
	15:55	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	15:37
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:21	22:19	21:21	19:58	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	22:21	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	22:17	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
	16:04	17:14	18:19	20:28	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	08:04	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	07:55	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	05:00	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	04:58	04:21	04:47	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	04:56	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	04:21	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	05:56	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	04:45	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	17:58	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	07:27	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
	16:37	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	06:14	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		06:56		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:
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		09:50 (13)	08:27	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	9	09:59 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	21	09:50 (13)
2	09:06		09:49 (13)	08:25	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36			08:41		09:29 (13)
	15:47	11	10:00 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	21	09:50 (13)
3	09:06		09:48 (13)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38			08:43		09:30 (13)
	15:48	13	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	09:50 (13)
4	09:05		09:47 (13)	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:31 (13)
	15:49	15	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	09:50 (13)
5	09:05		09:47 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:32 (13)
	15:51	16	10:03 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	18	09:50 (13)
6	09:04		09:47 (13)	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45			08:48		09:32 (13)
	15:52	17	10:04 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	17	09:49 (13)
7	09:04		09:47 (13)	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:48			08:49		09:33 (13)
	15:54	18	10:05 (13)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	17	09:50 (13)
8	09:03		09:46 (13)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:35 (13)
	15:56	19	10:05 (13)	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	15	09:50 (13)
9	09:02		09:46 (13)	08:10	06:58	06:32	05:15	04:25	04:34	05:32	06:38	07:42	07:52			08:52		09:37 (13)
	15:57	20	10:06 (13)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	13	09:50 (13)
10	09:01		09:46 (13)	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54			08:54		09:38 (13)
	15:59	21	10:07 (13)	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18			15:36	11	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			08:55		09:40 (13)
	16:01	21	10:08 (13)	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16			15:36	10	09:50 (13)
12	08:59		09:46 (13)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59			08:56		09:41 (13)
	16:03	22	10:08 (13)	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14			15:35	8	09:49 (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		09:30 (13)	08:58		09:42 (13)
	16:04	22	10:09 (13)	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12	8	09:38 (13)	15:35	6	09:48 (13)
14	08:57		09:46 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		09:28 (13)	08:59		09:44 (13)
	16:06	24	10:10 (13)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	13	09:41 (13)	15:35	5	09:49 (13)
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		09:28 (13)	09:00		09:45 (13)
	16:08	24	10:11 (13)	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15	09:43 (13)	15:35	3	09:48 (13)
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		09:26 (13)	09:01		09:46 (13)
	16:10	24	10:11 (13)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	18	09:44 (13)	15:35	2	09:48 (13)
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		09:26 (13)	09:02		
	16:12	24	10:11 (13)	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	19	09:45 (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		09:25 (13)	09:03		
	16:14	24	10:12 (13)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	21	09:46 (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		09:25 (13)	09:03		
	16:17	24	10:12 (13)	17:29	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	22	09:47 (13)	15:35		
20	08:49		09:49 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:25 (13)	09:04		
	16:19	23	10:12 (13)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	22	09:47 (13)	15:35		
21	08:47		09:49 (13)	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		09:25 (13)	09:05		
	16:21	23	10:12 (13)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	23	09:48 (13)	15:36		
22	08:46		09:50 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:25 (13)	09:05		
	16:23	22	10:12 (13)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	23	09:48 (13)	15:36		
23	08:44		09:50 (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	22	10:12 (13)	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	24	09:48 (13)	15:37		
24	08:42		09:51 (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	21	10:12 (13)	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	24	09:49 (13)	15:37		
25	08:41		09:52 (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	19	10:11 (13)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	24	09:49 (13)	15:38		
26	08:39		09:53 (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	18	10:11 (13)	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	24	09:50 (13)	15:39		
27	08:37		09:55 (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		09:51 (13)
	16:34	15	10:10 (13)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	24	09:50 (13)	15:40	1	09:52 (13)
28	08:35		09:57 (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		09:51 (13)
	16:37	12	10:09 (13)	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	23	09:50 (13)	15:41	3	09:54 (13)
29	08:33		09:59 (13)		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:27 (13)	09:07		09:51 (13)
	16:39	7	10:06 (13)		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	23	09:50 (13)	15:42	4	09:55 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:28 (13)	09:07		09:51 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	22	09:50 (13)	15:43	6	09:57 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31				09:07		09:50 (13)
	16:43				19:59		22:07		21:44	20:26		16:40				15:44	7	09:57 (13)
Potential sun hours	227			262	365	429	516	539	539	475	386	321	241			207		
Total, worst case		550												372			227	
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		42												33			17	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)		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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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		11:29 (3)	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		09:29 (4)
	15:46	29	11:58 (3)	16:46	39	10:12 (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	38	11:41 (3)
2	09:06		11:30 (3)	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		09:31 (4)
	15:47	28	11:58 (3)	16:48	41	10:11 (4)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57		16:36	25	08:50 (1)	15:42	36	11:42 (3)
3	09:06		11:30 (3)	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		09:32 (4)
	15:48	28	11:58 (3)	16:51	40	10:10 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33	26	08:51 (1)	15:41	35	11:43 (3)
4	09:06		11:30 (3)	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		09:35 (4)
	15:50	28	11:58 (3)	16:53	37	10:08 (4)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31	25	08:50 (1)	15:40	32	11:44 (3)
5	09:05		11:32 (3)	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		11:19 (3)
	15:51	27	11:59 (3)	16:56	32	10:05 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48		16:29	24	08:50 (1)	15:40	25	11:44 (3)
6	09:04		11:33 (3)	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		11:19 (3)
	15:53	26	11:59 (3)	16:58	25	09:21 (1)	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	32	09:35 (4)	15:39	26	11:45 (3)
7	09:04		11:34 (3)	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		11:18 (3)
	15:54	25	11:59 (3)	17:00	25	09:20 (1)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24	36	09:38 (4)	15:38	27	11:45 (3)
8	09:03		09:51 (4)	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		11:19 (3)
	15:56	30	11:59 (3)	17:03	25	09:21 (1)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	39	09:41 (4)	15:37	27	11:46 (3)
9	09:02		09:48 (4)	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		11:19 (3)
	15:58	35	11:59 (3)	17:05	25	09:21 (1)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20	40	09:41 (4)	15:37	28	11:47 (3)
10	09:01		09:48 (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		11:19 (3)
	15:59	36	11:59 (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	38	09:43 (4)	15:36	28	11:47 (3)
11	09:00		09:47 (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		11:20 (3)
	16:01	38	11:59 (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	37	09:43 (4)	15:36	29	11:49 (3)
12	08:59		09:46 (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		11:19 (3)
	16:03	37	11:58 (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	34	09:45 (4)	15:36	30	11:49 (3)
13	08:58		09:46 (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		11:19 (3)
	16:05	36	11:57 (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	30	09:46 (4)	15:35	30	11:49 (3)
14	08:57		09:45 (4)	07:58		08:58 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04		09:19 (4)	08:59		11:21 (3)
	16:07	36	11:56 (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	27	09:46 (4)	15:35	29	11:50 (3)
15	08:56		09:46 (4)	07:56		09:00 (1)	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06		09:19 (4)	09:00		11:21 (3)
	16:09	33	11:55 (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	27	09:46 (4)	15:35	30	11:51 (3)
16	08:55		09:45 (4)	07:53		09:02 (1)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08		09:19 (4)	09:01		11:21 (3)
	16:11	29	11:52 (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	27	09:46 (4)	15:35	30	11:51 (3)
17	08:53		09:44 (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		11:22 (3)
	16:13	24	10:08 (4)	17:24	4	09:11 (1)	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16		16:04	28	09:47 (4)	15:35	30	11:52 (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		09:19 (4)	09:03		11:22 (3)
	16:15	25	10:10 (4)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13		16:02	28	09:47 (4)	15:35	30	11:52 (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		09:20 (4)	09:03		11:22 (3)
	16:17	25	10:10 (4)	17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11		16:01	27	09:47 (4)	15:35	30	11:52 (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		09:19 (4)	09:04		11:22 (3)
	16:19	26	10:11 (4)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08		15:59	28	09:47 (4)	15:36	31	11:53 (3)
21	08:47		09:44 (4)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		08:19		09:20 (4)	09:05		11:23 (3)
	16:21	27	10:11 (4)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05		15:57	27	09:47 (4)	15:36	31	11:54 (3)
22	08:46		09:44 (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		11:23 (3)
	16:23	28	10:12 (4)	17:36			18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03		15:56	26	09:47 (4)	15:37	31	11:54 (3)
23	08:44		09:45 (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		11:24 (3)
	16:25	27	10:12 (4)	17:38			18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00		15:54	26	09:48 (4)	15:37	31	11:55 (3)
24	08:42		09:45 (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		11:25 (3)
	16:28	28	10:13 (4)	17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58		15:52	25	09:47 (4)	15:38	30	11:55 (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		09:22 (4)	09:07		11:25 (3)
	16:30	28	10:13 (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	25	09:47 (4)	15:38	30	11:55 (3)
26	08:39		09:46 (4)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:32 (1)	08:30		09:24 (4)	09:07		11:25 (3)
	16:32	27	10:13 (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	28	11:31 (3)	15:39	31	11:56 (3)
27	08:37		09:46 (4)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:29 (1)	08:32		09:25 (4)	09:07		11:26 (3)
	16:35	28	10:14 (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	32	11:34 (3)	15:40	30	11:56 (3)
28	08:35		09:47 (4)	07:22			06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:29 (1)	08:33		09:25 (4)	09:07		11:27 (3)
	16:37	27	10:14 (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	36	11:36 (3)	15:41	29	11:56 (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		09:26 (4)	09:07		11:27 (3)
	16:39	29	10:14 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	22 08:49 (1)	15:46	36	11:37 (3)	15:42	30	11:57 (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		09:28 (4)	09:07		11:28 (3)
	16:41	34	10:13 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	23 08:50 (1)	15:45	38	11:40 (3)	15:43	30	11:58 (3)
31	08:29		09:02 (1)				06:57		04:34		05:13	06:19		07:31	08:26 (1)				09:07		11:28 (3)
	16:44	36	10:12 (4)				19:59		22:07		21:44	20:26		16:41	24 08:50 (1)				15:44	29	11:57 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321		241		207					
Total, worst case	920		435									127		902		933		
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		0.65		
Total reduction	0.08		0.13									0.18		0.09		0.08		
Total, real	71		57									23		81		71		

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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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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
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	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	15:37
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	16:37	17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	15:41
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
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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
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	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
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	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:01	15:54	15:37
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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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	15:56	17:03	18:08	20:17	21:23	22:19	22:21	21:26	20:04	18:40	16:22	15:38
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	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
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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
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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
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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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	10:39 (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		10:26 (3)
	15:46	30 11:09 (3)	16:46	24 09:39 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	23 09:06 (4)	15:43	29	10:55 (3)
2	09:06	10:39 (3)	08:25	09:14 (4)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36	08:47 (4)	08:41		10:26 (3)
	15:47	30 11:09 (3)	16:48	25 09:39 (4)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36	20 09:07 (4)	15:42	29	10:55 (3)
3	09:06	10:39 (3)	08:23	09:14 (4)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38	08:46 (4)	08:43		10:26 (3)
	15:48	30 11:09 (3)	16:51	25 09:39 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33	22 09:08 (4)	15:41	30	10:56 (3)
4	09:06	10:39 (3)	08:21	09:15 (4)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31		07:41	08:45 (4)	08:45		10:26 (3)
	15:50	31 11:10 (3)	16:53	25 09:40 (4)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31	23 09:08 (4)	15:40	30	10:56 (3)
5	09:05	10:41 (3)	08:19	09:15 (4)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43	08:45 (4)	08:46		10:27 (3)
	15:51	30 11:11 (3)	16:56	24 09:39 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48		16:29	24 09:09 (4)	15:40	30	10:57 (3)
6	09:04	10:41 (3)	08:17	09:15 (4)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35		07:45	08:44 (4)	08:48		10:27 (3)
	15:53	30 11:11 (3)	16:58	24 09:39 (4)	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	25 09:09 (4)	15:39	30	10:57 (3)
7	09:04	10:41 (3)	08:14	09:16 (4)	07:04	06:37	05:20	04:26	04:32	05:28	06:34	07:38		07:48	08:45 (4)	08:49		10:27 (3)
	15:54	31 11:12 (3)	17:00	22 09:38 (4)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24	24 09:09 (4)	15:38	30	10:57 (3)
8	09:03	10:42 (3)	08:12	09:17 (4)	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40		07:50	08:45 (4)	08:51		10:27 (3)
	15:56	30 11:12 (3)	17:03	21 09:38 (4)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	25 09:10 (4)	15:37	31	10:58 (3)
9	09:02	10:42 (3)	08:10	09:17 (4)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52	08:45 (4)	08:52		10:28 (3)
	15:58	30 11:12 (3)	17:05	20 09:37 (4)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20	24 09:09 (4)	15:37	31	10:59 (3)
10	09:01	10:43 (3)	08:08	08:38 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55	08:45 (4)	08:54		10:28 (3)
	15:59	29 11:12 (3)	17:07	23 09:36 (4)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	25 09:10 (4)	15:36	30	10:58 (3)
11	09:00	10:43 (3)	08:05	08:35 (1)	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46		07:57	08:45 (4)	08:55		10:29 (3)
	16:01	30 11:13 (3)	17:10	24 09:34 (4)	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32		16:16	24 09:09 (4)	15:36	30	10:59 (3)
12	08:59	10:44 (3)	08:03	08:33 (1)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59	08:46 (4)	08:56		10:29 (3)
	16:03	28 11:12 (3)	17:12	22 09:32 (4)	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29		16:14	23 09:09 (4)	15:36	30	10:59 (3)
13	08:58	10:45 (3)	08:00	08:30 (1)	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01	08:47 (4)	08:58		10:29 (3)
	16:05	28 11:13 (3)	17:15	17 08:47 (1)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12	22 09:09 (4)	15:35	30	10:59 (3)
14	08:57	10:45 (3)	07:58	08:27 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04	08:48 (4)	08:59		10:30 (3)
	16:07	27 11:12 (3)	17:17	21 08:48 (1)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10	20 09:08 (4)	15:35	31	11:01 (3)
15	08:56	10:46 (3)	07:56	08:28 (1)	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06	08:49 (4)	09:00		10:31 (3)
	16:09	27 11:13 (3)	17:19	21 08:49 (1)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21		16:08	19 09:08 (4)	15:35	30	11:01 (3)
16	08:55	10:47 (3)	07:53	08:27 (1)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08	08:50 (4)	09:01		10:31 (3)
	16:11	25 11:12 (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	16 09:06 (4)	15:35	30	11:01 (3)
17	08:53	10:48 (3)	07:51	08:28 (1)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10	08:52 (4)	09:02		10:32 (3)
	16:13	25 11:13 (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	14 09:06 (4)	15:35	30	11:02 (3)
18	08:52	10:49 (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	08:53 (4)	09:03		10:32 (3)
	16:15	23 11:12 (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	11 09:04 (4)	15:35	30	11:02 (3)
19	08:50	10:50 (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	08:58 (4)	09:03		10:32 (3)
	16:17	21 11:11 (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	10 10:40 (3)	15:35	30	11:02 (3)
20	08:49	10:51 (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	10:30 (3)	09:04		10:33 (3)
	16:19	19 11:10 (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	13 10:43 (3)	15:36	30	11:03 (3)
21	08:47	10:53 (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	10:29 (3)	09:05		10:34 (3)
	16:21	16 11:09 (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	16 10:45 (3)	15:36	30	11:04 (3)
22	08:46	10:55 (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	10:27 (3)	09:05		10:34 (3)
	16:23	13 11:08 (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	19 10:46 (3)	15:37	30	11:04 (3)
23	08:44	09:23 (4)	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	10:27 (3)	09:06		10:35 (3)
	16:26	10 11:05 (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	21 10:48 (3)	15:37	30	11:05 (3)
24	08:42	09:19 (4)	07:33		06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:58 (1)	08:25	10:26 (3)	09:06		10:35 (3)
	16:28	11 09:30 (4)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	21 09:19 (1)	15:52	23 10:49 (3)	15:38	30	11:05 (3)
25	08:41	09:18 (4)	07:30		06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	07:57 (1)	08:28	10:25 (3)	09:07		10:35 (3)
	16:30	14 09:32 (4)	17:43		18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	21 08:18 (1)	15:51	25 10:50 (3)	15:38	30	11:05 (3)
26	08:39	09:17 (4)	07:28		06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	07:57 (1)	08:30	10:26 (3)	09:07		10:35 (3)
	16:32	16 09:33 (4)	17:45		18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	22 08:19 (1)	15:50	25 10:51 (3)	15:39	31	11:06 (3)
27	08:37	09:16 (4)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	07:57 (1)	08:32	10:25 (3)	09:07		10:36 (3)
	16:35	19 09:35 (4)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	21 08:18 (1)	15:48	27 10:52 (3)	15:40	30	11:06 (3)
28	08:35	09:16 (4)	07:22		06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	07:58 (1)	08:34	10:25 (3)	09:07		10:36 (3)
	16:37	20 09:36 (4)	17:50		18:53	21:01	22:02	22:28	21:50	20:34	19:08	16:48	20 08:18 (1)	15:47	27 10:52 (3)	15:41	31	11:07 (3)
29	08:33	09:15 (4)			07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:00 (1)	08:35	10:25 (3)	09:07		10:37 (3)
	16:39	22 09:37 (4)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	17 08:17 (1)	15:46	28 10:53 (3)	15:42	30	11:07 (3)
30	08:31	09:14 (4)			07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:03 (1)	08:37	10:26 (3)	09:07		10:38 (3)
	16:41	23 09:37 (4)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	23 09:02 (4)	15:45	28 10:54 (3)	15:43	30	11:08 (3)
31	08:29	09:14 (4)			06:57		04:34		05:13	06:19		07:31	08:05 (1)			09:07		10:38 (3)
	16:44	24 09:38 (4)			19:59		22:07		21:44	20:26		16:41	24 09:04 (4)			15:44	30	11:08 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321		241		207		
Total, worst case	742		485									258		646		933		
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									0.62		0.62		0.61		
Total reduction	0.07		0.13									0.18		0.09		0.07		
Total, real	55		63									46		58		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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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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
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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
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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
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	19:22 (8)	05:34	04:33	04:26	05:15	06:21	19:15 (8)	07:24	07:33	08:39
	15:45	16:46	17:52	20:01 10	19:32 (8)	21:07	22:08	22:26	21:41	20:23 18	19:33 (8)	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	19:20 (8)	05:31	04:32	04:27	05:17	06:23	19:15 (8)	07:26	07:36	08:40
	15:47	16:48	17:54	20:03 14	19:34 (8)	21:09	22:10	22:25	21:39	20:20 19	19:34 (8)	18:56	16:36	15:42
3	09:05	08:23	07:14	06:48	19:18 (8)	05:29	04:30	04:28	05:19	06:25	19:14 (8)	07:29	07:38	08:42
	15:48	16:51	17:56	20:05 18	19:36 (8)	21:12	22:11	22:25	21:37	20:18 20	19:34 (8)	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	19:17 (8)	05:26	04:29	04:29	05:21	06:27	19:13 (8)	07:31	07:40	08:44
	15:49	16:53	17:59	20:07 20	19:37 (8)	21:14	22:13	22:24	21:34	20:15 22	19:35 (8)	18:51	16:31	15:40
5	09:04	08:18	07:09	06:42	19:17 (8)	05:24	04:28	04:30	05:23	06:29	19:12 (8)	07:33	07:43	08:46
	15:51	16:55	18:01	20:10 21	19:38 (8)	21:16	22:14	22:23	21:32	20:12 22	19:34 (8)	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	19:16 (8)	05:22	04:27	04:31	05:25	06:31	19:12 (8)	07:35	07:45	08:47
	15:52	16:58	18:03	20:12 22	19:38 (8)	21:18	22:15	22:22	21:30	20:09 22	19:34 (8)	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	19:15 (8)	05:19	04:26	04:32	05:27	06:33	19:12 (8)	07:37	07:47	08:49
	15:54	17:00	18:05	20:14 22	19:37 (8)	21:20	22:17	22:21	21:28	20:07 21	19:33 (8)	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	19:15 (8)	05:17	04:25	04:33	05:30	06:36	19:12 (8)	07:39	07:49	08:50
	15:56	17:02	18:08	20:16 21	19:36 (8)	21:22	22:18	22:20	21:25	20:04 21	19:33 (8)	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	19:16 (8)	05:15	04:25	04:35	05:32	06:38	19:12 (8)	07:42	07:52	08:52
	15:57	17:05	18:10	20:19 20	19:36 (8)	21:25	22:19	22:19	21:23	20:01 18	19:30 (8)	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	19:16 (8)	05:12	04:24	04:36	05:34	06:40	19:13 (8)	07:44	07:54	08:53
	15:59	17:07	18:12	20:21 19	19:35 (8)	21:27	22:20	22:18	21:20	19:58 14	19:27 (8)	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	19:16 (8)	05:10	04:23	04:37	05:36	06:42	19:14 (8)	07:46	07:56	08:55
	16:01	17:10	18:14	20:23 18	19:34 (8)	21:29	22:21	22:17	21:18	19:55 11	19:25 (8)	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	19:18 (8)	05:08	04:23	04:39	05:38	06:44	19:15 (8)	07:48	07:59	08:56
	16:03	17:12	18:17	20:25 15	19:33 (8)	21:31	22:22	22:16	21:16	19:53 7	19:22 (8)	18:29	16:14	15:35
13	08:58	08:00	06:47	06:20	19:20 (8)	05:06	04:22	04:40	05:40	06:46		07:50	08:01	08:57
	16:05	17:14	18:19	20:27 10	19:30 (8)	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
	16:06	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	04:21	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	06:36	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	22:08	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	17:28	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
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	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		04:46	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	15:38
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	17:42	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		04:41	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
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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
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	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 19:19 (8)	07:22		07:29	08:37	09:07
	16:41		19:56	21:05		22:05	22:26	21:45	20:29 11 19:30 (8)	19:02		16:43	15:44	15:43
31	08:29		06:56 19:24 (8)			04:34		05:13	06:19 19:17 (8)			07:31		09:06
	16:44		19:59 5 19:29 (8)			22:07		21:43	20:26 15 19:32 (8)			16:40		15:44
Potential sun hours	227	262	365	429		515	539	538	474	386		321	241	207
Total, worst case			5	230					26	215				
Sun reduction			0.37	0.46					0.55	0.43				
Oper. time red.			0.93	0.93					0.93	0.93				
Wind dir. red.			0.64	0.64					0.64	0.64				
Total reduction			0.22	0.27					0.32	0.26				
Total, real			1	63					8	55				

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)

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Calculated:
17.09.2025 17:50/4.1.287

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	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	22:25	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	20:07	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	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	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	08:54
	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	21:16	19:53	18:29	16:14	15:36
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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	18:35	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	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	18:46	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	15:49	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	09:06
	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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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		10:02 (3)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:48 (3)
	15:46	22	10:24 (3)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	23	10:11 (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		09:48 (3)
	15:47	22	10:24 (3)	16:48	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	23	10:11 (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	22	10:24 (3)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	23	10:11 (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		09:49 (3)
	15:50	23	10:26 (3)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	23	10:12 (3)
5	09:05		10:04 (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	22	10:26 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29			15:40	23	10:12 (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	23	10:27 (3)	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	23	10:13 (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	23	10:27 (3)	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	22	10:12 (3)
8	09:03		10:05 (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	23	10:28 (3)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	23	10:13 (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	23	10:27 (3)	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20			15:37	23	10:14 (3)
10	09:01		10:05 (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	23	10:28 (3)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18			15:36	22	10:13 (3)
11	09:00		10:06 (3)	08:05	06:53	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:57			08:55		09:52 (3)
	16:01	23	10:29 (3)	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16			15:36	22	10:14 (3)
12	08:59		10:06 (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	22	10:28 (3)	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14			15:36	21	10:14 (3)
13	08:58		10:07 (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	22	10:29 (3)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12			15:35	21	10:14 (3)
14	08:57		10:07 (3)	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04			08:59		09:54 (3)
	16:07	22	10:29 (3)	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	21	10:15 (3)
15	08:56		10:08 (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	21	10:29 (3)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08			15:35	20	10:15 (3)
16	08:55		10:08 (3)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08			09:01		09:55 (3)
	16:11	21	10:29 (3)	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06			15:35	21	10:16 (3)
17	08:53		10:10 (3)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10			09:02		09:56 (3)
	16:13	19	10:29 (3)	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04			15:35	20	10:16 (3)
18	08:52		10:11 (3)	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13			09:03		09:56 (3)
	16:15	18	10:29 (3)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02			15:35	21	10:17 (3)
19	08:50		10:11 (3)	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15			09:03		09:57 (3)
	16:17	17	10:28 (3)	17:29	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11	16:01			15:35	20	10:17 (3)
20	08:49		10:13 (3)	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:51 (3)	09:04		09:57 (3)
	16:19	14	10:27 (3)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	8	09:59 (3)	15:36	20	10:17 (3)
21	08:47		10:14 (3)	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		09:50 (3)	09:05		09:58 (3)
	16:21	12	10:26 (3)	17:34	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05	15:57	12	10:02 (3)	15:36	20	10:18 (3)
22	08:46		10:16 (3)	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:49 (3)	09:05		09:58 (3)
	16:23	8	10:24 (3)	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	14	10:03 (3)	15:37	20	10:18 (3)
23	08:44			07:36	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23		09:49 (3)	09:06		09:59 (3)
	16:26			17:38	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	16	10:05 (3)	15:37	20	10:19 (3)
24	08:42			07:33	06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:48 (3)	09:06		09:59 (3)
	16:28			17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	18	10:06 (3)	15:38	20	10:19 (3)
25	08:41			07:30	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28		09:47 (3)	09:07		09:59 (3)
	16:30			17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	19	10:06 (3)	15:38	20	10:19 (3)
26	08:39			07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:48 (3)	09:07		09:59 (3)
	16:32			17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	20	10:08 (3)	15:39	21	10:20 (3)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:47 (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	21	10:08 (3)	15:40	20	10:20 (3)
28	08:35			07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:34		09:47 (3)	09:07		10:00 (3)
	16:37			17:50	18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	15:47	22	10:09 (3)	15:41	21	10:21 (3)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:47 (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	22	10:09 (3)	15:42	21	10:22 (3)
30	08:31				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		09:48 (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	22	10:10 (3)	15:43	21	10:23 (3)
31	08:29				06:57		04:34		05:13	06:19		07:32				09:07		10:01 (3)
	16:44				19:59		22:07		21:44	20:26		16:41				15:44	22	10:23 (3)
Potential sun hours	227			262	365	429	515	539	538	474	386	321	241			207		
Total, worst case		445												194			661	
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		33												17			48	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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) 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)

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Calculated:
17.09.2025 17:50/4.1.287

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			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
	15:46			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
2	09:06			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
	15:47			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
3	09:06			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
	15:48			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
4	09:06			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
	15:50			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
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			18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39
7	09:04			08:14			07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48		08:49 (1)	08:49
	15:54			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
8	09:03			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
	15:56			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
9	09:02			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
	15:58			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
10	09:01			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
	15:59			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
11	09:00			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
	16:01			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
12	08:59			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
	16:03			17:12			18:17	20:26	21:31	22:23	22:17	21:16	19:53	18:29	16:14	18	09:02 (1)	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		08:45 (1)	08:58
	16:05			17:15			18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	18	09:03 (1)	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		08:44 (1)	08:59
	16:07			17:17			18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	18	09:02 (1)	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		08:45 (1)	09:00
	16:09			17:19			18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	18	09:03 (1)	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		08:46 (1)	09:01
	16:11			17:22			18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	17	09:03 (1)	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 (1)	09:02
	16:13			17:24			18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	14	09:03 (1)	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		08:51 (1)	09:03
	16:15			17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	11	09:02 (1)	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		08:54 (1)	09:03
	16:17			17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	8	09:02 (1)	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		08:56 (1)	09:04
	16:19			17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	5	09:01 (1)	15:36
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
	16:21	2	09:25 (1)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	2	09:01 (1)	15:36
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			09:05
	16:23	5	09:26 (1)	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		09:19 (1)	07:35			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23			09:06
	16:25	8	09:27 (1)	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		09:17 (1)	07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25			09:06
	16:28	11	09:28 (1)	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		09:15 (1)	07:30			06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28			09:07
	16:30	14	09:29 (1)	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		09:13 (1)	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	09:30 (1)	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		09:12 (1)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32			09:07
	16:35	18	09:30 (1)	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		09:12 (1)	07:22			06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34			09:07
	16:37	19	09:31 (1)	17:50			18:53	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47			15:41
29	08:33		09:13 (1)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35			09:07
	16:39	18	09:31 (1)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46			15:42
30	08:31		09:12 (1)				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37			09:07
	16:41	18	09:30 (1)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44			15:43
31	08:29		09:13 (1)				06:57		04:34		05:13	06:19		07:32				09:07
	16:44	17	09:30 (1)				19:59		22:07		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		147			48											194		
Sun reduction		0.13			0.22											0.15		
Oper. time red.		0.93			0.93											0.93		
Wind dir. red.		0.64			0.64											0.64		
Total reduction		0.08			0.13											0.09		
Total, real		11			6											18		

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		10:03 (2)	08:27		07:20		07:51 (5)	06:54		07:47 (3)	05:34		06:30 (1)	04:33
	15:46	21	10:24 (2)	16:46		17:52	15	08:06 (5)	20:01	30	08:17 (3)	21:08	4	06:34 (1)	22:09
2	09:06		10:04 (2)	08:25		07:17		07:49 (5)	06:51		07:23 (4)	05:31			04:32
	15:47	21	10:25 (2)	16:49		17:54	18	08:07 (5)	20:04	41	08:18 (3)	21:10			22:10
3	09:06		10:04 (2)	08:23		07:14		07:47 (5)	06:48		07:20 (4)	05:29			04:31
	15:48	22	10:26 (2)	16:51		17:57	21	08:08 (5)	20:06	50	08:19 (3)	21:12			22:12
4	09:05		10:04 (2)	08:21		07:12		07:47 (5)	06:46		07:18 (4)	05:27			04:30
	15:50	22	10:26 (2)	16:53		17:59	22	08:09 (5)	20:08	57	08:21 (3)	21:14			22:13
5	09:05		10:05 (2)	08:19		07:09		07:46 (5)	06:43		07:16 (4)	05:24			04:29
	15:51	23	10:28 (2)	16:56		18:01	24	08:10 (5)	20:10	62	08:21 (3)	21:16			22:15
6	09:04		10:05 (2)	08:17		07:06		07:45 (5)	06:40		07:14 (4)	05:22			04:28
	15:53	24	10:29 (2)	16:58		18:04	25	08:10 (5)	20:12	67	08:22 (3)	21:19			22:16
7	09:04		10:05 (2)	08:14		07:04		07:44 (5)	06:37		07:14 (4)	05:20			04:27
	15:54	24	10:29 (2)	17:00		18:06	25	08:09 (5)	20:15	69	08:23 (3)	21:21			22:17
8	09:03		10:04 (2)	08:12		07:01		07:44 (5)	06:35		07:13 (4)	05:17			04:26
	15:56	25	10:29 (2)	17:03		18:08	25	08:09 (5)	20:17	70	08:23 (3)	21:23			22:18
9	09:02		10:04 (2)	08:10		06:58		07:45 (5)	06:32		07:12 (4)	05:15			04:25
	15:58	26	10:30 (2)	17:05		18:10	24	08:09 (5)	20:19	71	08:23 (3)	21:25			22:19
10	09:01		10:04 (2)	08:08		06:55		07:45 (5)	06:29		07:11 (4)	05:13			04:24
	15:59	27	10:31 (2)	17:08		18:13	24	08:09 (5)	20:21	71	08:22 (3)	21:27			22:20
11	09:00		10:05 (2)	08:05		06:53		07:45 (5)	06:26		07:11 (4)	05:11			04:24
	16:01	27	10:32 (2)	17:10		18:15	22	08:07 (5)	20:23	72	08:23 (3)	21:29			22:21
12	08:59		10:04 (2)	08:03		06:50		07:45 (5)	06:24		07:11 (4)	05:08			04:23
	16:03	28	10:32 (2)	17:12		18:17	21	08:06 (5)	20:26	72	08:23 (3)	21:31			22:22
13	08:58		10:05 (2)	08:00		06:47		07:46 (5)	06:21		07:11 (4)	05:06			04:23
	16:05	28	10:33 (2)	17:15		18:19	18	08:04 (5)	20:28	71	08:22 (3)	21:34			22:23
14	08:57		10:05 (2)	07:58		06:44		07:48 (5)	06:18		07:12 (4)	05:04			04:22
	16:07	28	10:33 (2)	17:17		18:22	15	08:03 (5)	20:30	70	08:22 (3)	21:36			22:24
15	08:56		10:05 (2)	07:56		06:41		07:51 (5)	06:15		07:12 (4)	05:02			04:22
	16:09	29	10:34 (2)	17:19		18:24	9	08:00 (5)	20:32	70	08:22 (3)	21:38			22:25
16	08:55		10:05 (2)	07:53		06:39			06:13		07:13 (4)	05:00			04:21
	16:11	29	10:34 (2)	17:22		18:26			20:34	69	08:22 (3)	21:40			22:25
17	08:53		10:05 (2)	07:51		06:36			06:10		06:37 (1)	04:58			04:21
	16:13	30	10:35 (2)	17:24		18:28			20:37	67	08:21 (3)	21:42			22:26
18	08:52		10:06 (2)	07:48		06:33			06:07		06:34 (1)	04:56			04:21
	16:15	30	10:36 (2)	17:26		18:30			20:39	69	08:20 (3)	21:44			22:26
19	08:50		10:07 (2)	07:46		06:30			06:05		06:32 (1)	04:54			04:21
	16:17	29	10:36 (2)	17:29		18:33			20:41	66	08:19 (3)	21:46			22:27
20	08:49		10:07 (2)	07:43		06:28			06:02		06:29 (1)	04:52			04:21
	16:19	29	10:36 (2)	17:31		18:35			20:43	58	08:18 (3)	21:48			22:27
21	08:47		10:07 (2)	07:41		06:25			05:59		06:27 (1)	04:50			04:21
	16:21	29	10:36 (2)	17:34		18:37			20:45	60	08:18 (3)	21:50			22:28
22	08:46		10:08 (2)	07:38		06:22			05:57		06:24 (1)	04:48			04:21
	16:23	28	10:36 (2)	17:36		18:39			20:48	60	08:16 (3)	21:52			22:28
23	08:44		10:08 (2)	07:35		06:19			05:54		06:24 (1)	04:47			04:22
	16:26	28	10:36 (2)	17:38		18:42			20:50	59	08:15 (3)	21:53			22:28
24	08:42		10:09 (2)	07:33		06:16			05:52		06:23 (1)	04:45			04:22
	16:28	27	10:36 (2)	17:41		18:44			20:52	57	08:13 (3)	21:55			22:28
25	08:41		10:10 (2)	07:30		06:14			05:49		06:24 (1)	04:43			04:22
	16:30	26	10:36 (2)	17:43		18:46			20:54	54	08:12 (3)	21:57			22:28
26	08:39		10:11 (2)	07:28		06:11			05:46		06:24 (1)	04:42			04:23
	16:32	24	10:35 (2)	17:45		18:48			20:57	51	08:11 (3)	21:59			22:28
27	08:37		10:12 (2)	07:25		06:08			05:44		06:24 (1)	04:40			04:23
	16:35	23	10:35 (2)	17:47		18:50			20:59	47	08:09 (3)	22:01			22:28
28	08:35		10:13 (2)	07:22	07:54 (5)	06:05			05:41		06:25 (1)	04:39			04:24
	16:37	21	10:34 (2)	17:50	9 08:03 (5)	18:53			21:01	42	08:07 (3)	22:02			22:27
29	08:33		10:14 (2)			07:02		07:58 (3)	05:39		06:26 (1)	04:37			04:25
	16:39	18	10:32 (2)			19:55	9	08:07 (3)	21:03	35	08:05 (3)	22:04			22:27
30	08:31		10:16 (2)			07:00		07:54 (3)	05:36		06:27 (1)	04:36			04:25
	16:42	15	10:31 (2)			19:57	19	08:13 (3)	21:05	24	08:00 (3)	22:06			22:27
31	08:29		10:18 (2)			06:57		07:50 (3)				04:34			
	16:44	11	10:29 (2)			19:59	25	08:15 (3)				22:07			
Potential sun hours	227			262		365			429			515			539
Total, worst case		772			9		361			1761			4		
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			0.58		0.59			0.64			0.64		
Total reduction		0.07			0.12		0.20			0.28			0.34		
Total, real		57			1		73			485			1		

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		08:25 (5)	07:34			08:39		09:47 (2)
	22:26	21:42			20:24	72	08:22 (3)	19:00	20	08:45 (5)	16:38			15:44	27	10:14 (2)
2	04:27	05:17			06:23		07:10 (4)	07:27		08:23 (5)	07:36			08:41		09:48 (2)
	22:26	21:39			20:21	71	08:21 (3)	18:57	22	08:45 (5)	16:36			15:42	26	10:14 (2)
3	04:28	05:19			06:25		07:10 (4)	07:29		08:23 (5)	07:38			08:43		09:48 (2)
	22:25	21:37			20:18	71	08:21 (3)	18:54	23	08:46 (5)	16:34			15:41	26	10:14 (2)
4	04:29	05:22			06:27		07:10 (4)	07:31		08:22 (5)	07:41			08:44		09:49 (2)
	22:24	21:35			20:15	70	08:20 (3)	18:51	24	08:46 (5)	16:31			15:41	25	10:14 (2)
5	04:30	05:24			06:30		07:10 (4)	07:33		08:21 (5)	07:43			08:46		09:50 (2)
	22:24	21:33			20:13	69	08:19 (3)	18:49	25	08:46 (5)	16:29			15:40	25	10:15 (2)
6	04:31	05:26			06:32		07:10 (4)	07:35		08:21 (5)	07:45			08:48		09:50 (2)
	22:23	21:30			20:10	67	08:18 (3)	18:46	25	08:46 (5)	16:27			15:39	24	10:14 (2)
7	04:32	05:28			06:34		07:11 (4)	07:38		08:21 (5)	07:48			08:49		09:51 (2)
	22:22	21:28			20:07	62	08:17 (3)	18:43	25	08:46 (5)	16:25			15:38	23	10:14 (2)
8	04:34	05:30			06:36		07:12 (4)	07:40		08:21 (5)	07:50			08:51		09:52 (2)
	22:21	21:26			20:04	58	08:15 (3)	18:40	24	08:45 (5)	16:22			15:38	22	10:14 (2)
9	04:35	05:32			06:38		07:14 (4)	07:42		08:21 (5)	07:52			08:52		09:53 (2)
	22:20	21:23			20:01	51	08:14 (3)	18:38	23	08:44 (5)	16:20			15:37	22	10:15 (2)
10	04:36	05:34			06:40		07:16 (4)	07:44		08:21 (5)	07:55			08:54		09:53 (2)
	22:19	21:21			19:59	43	08:12 (3)	18:35	22	08:43 (5)	16:18			15:37	21	10:14 (2)
11	04:38	05:36			06:42		07:39 (3)	07:46		08:23 (5)	07:57		09:49 (2)	08:55		09:54 (2)
	22:18	21:18			19:56	31	08:10 (3)	18:32	19	08:42 (5)	16:16	11	10:00 (2)	15:36	21	10:15 (2)
12	04:39	05:38		06:38 (1)	06:44		07:41 (3)	07:49		08:23 (5)	07:59		09:47 (2)	08:56		09:55 (2)
	22:17	21:16	12	08:05 (3)	19:53	26	08:07 (3)	18:29	17	08:40 (5)	16:14	16	10:03 (2)	15:36	19	10:14 (2)
13	04:41	05:41		06:35 (1)	06:46		07:44 (3)	07:51		08:25 (5)	08:01		09:45 (2)	08:58		09:55 (2)
	22:15	21:14	27	08:10 (3)	19:50	20	08:04 (3)	18:27	13	08:38 (5)	16:12	19	10:04 (2)	15:35	19	10:14 (2)
14	04:42	05:43		06:33 (1)	06:49		07:48 (3)	07:53		08:29 (5)	08:04		09:45 (2)	08:59		09:57 (2)
	22:14	21:11	37	08:13 (3)	19:47	11	07:59 (3)	18:24	5	08:34 (5)	16:10	21	10:06 (2)	15:35	18	10:15 (2)
15	04:44	05:45		06:32 (1)	06:51			07:55			08:06		09:45 (2)	09:00		09:58 (2)
	22:13	21:09	43	08:15 (3)	19:45			18:21			16:08	23	10:08 (2)	15:35	17	10:15 (2)
16	04:45	05:47		06:31 (1)	06:53			07:57			08:08		09:43 (2)	09:01		09:58 (2)
	22:11	21:06	48	08:17 (3)	19:42			18:19			16:06	25	10:08 (2)	15:35	17	10:15 (2)
17	04:47	05:49		06:31 (1)	06:55			08:00			08:10		09:44 (2)	09:02		09:59 (2)
	22:10	21:03	52	08:18 (3)	19:39			18:16			16:04	26	10:10 (2)	15:35	16	10:15 (2)
18	04:49	05:51		06:30 (1)	06:57			08:02			08:13		09:43 (2)	09:03		10:00 (2)
	22:08	21:01	55	08:19 (3)	19:36			18:13			16:02	27	10:10 (2)	15:35	16	10:16 (2)
19	04:50	05:53		06:30 (1)	06:59			08:04			08:15		09:43 (2)	09:03		10:00 (2)
	22:06	20:58	58	08:20 (3)	19:33			18:11			16:01	28	10:11 (2)	15:36	15	10:15 (2)
20	04:52	05:55		06:30 (1)	07:01			08:06			08:17		09:43 (2)	09:04		10:01 (2)
	22:05	20:56	59	08:21 (3)	19:30			18:08			15:59	28	10:11 (2)	15:36	15	10:16 (2)
21	04:54	05:58		06:30 (1)	07:03			08:09			08:19		09:43 (2)	09:05		10:01 (2)
	22:03	20:53	61	08:22 (3)	19:28			18:06			15:57	29	10:12 (2)	15:36	16	10:17 (2)
22	04:56	06:00		06:32 (1)	07:05			08:11			08:21		09:43 (2)	09:05		10:01 (2)
	22:01	20:50	59	08:22 (3)	19:25			18:03			15:56	29	10:12 (2)	15:37	16	10:17 (2)
23	04:58	06:02		06:34 (1)	07:08			08:13			08:23		09:43 (2)	09:06		10:03 (2)
	21:59	20:48	58	08:23 (3)	19:22			18:00			15:54	29	10:12 (2)	15:37	15	10:18 (2)
24	05:00	06:04		06:36 (1)	07:10			08:15			08:25		09:43 (2)	09:06		10:03 (2)
	21:58	20:45	66	08:23 (3)	19:19			17:58			15:53	30	10:13 (2)	15:38	15	10:18 (2)
25	05:01	06:06		06:38 (1)	07:12			07:18			08:27		09:43 (2)	09:07		10:03 (2)
	21:56	20:43	68	08:23 (3)	19:16			16:55			15:51	30	10:13 (2)	15:38	16	10:19 (2)
26	05:03	06:08		06:40 (1)	07:14			07:20			08:29		09:44 (2)	09:07		10:03 (2)
	21:54	20:40	67	08:23 (3)	19:14			16:53			15:50	30	10:14 (2)	15:39	16	10:19 (2)
27	05:05	06:10		07:15 (4)	07:16			07:22			08:31		09:45 (2)	09:07		10:03 (2)
	21:52	20:37	69	08:24 (3)	19:11			16:50			15:48	28	10:13 (2)	15:40	17	10:20 (2)
28	05:07	06:13		07:13 (4)	07:18		08:34 (5)	07:25			08:33		09:45 (2)	09:07		10:03 (2)
	21:50	20:34	70	08:23 (3)	19:08	4	08:38 (5)	16:48			15:47	28	10:13 (2)	15:41	18	10:21 (2)
29	05:09	06:15		07:12 (4)	07:20		08:29 (5)	07:27			08:35		09:45 (2)	09:07		10:04 (2)
	21:48	20:32	71	08:23 (3)	19:05	13	08:42 (5)	16:45			15:46	28	10:13 (2)	15:42	18	10:22 (2)
30	05:11	06:17		07:12 (4)	07:23		08:27 (5)	07:29			08:37		09:47 (2)	09:07		10:03 (2)
	21:46	20:29	71	08:23 (3)	19:02	17	08:44 (5)	16:43			15:45	27	10:14 (2)	15:43	19	10:22 (2)
31	05:13	06:19		07:11 (4)				07:31						09:07		10:04 (2)
	21:44	20:26	72	08:23 (3)				16:41						15:44	19	10:23 (2)
Potential sun hours	538	474			386			321			241			207		
Total, worst case			1123			756			287			512			599	
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			0.26			0.17			0.09			0.07	
Total, real			366			194			48			45			43	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)		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)

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Calculated:
17.09.2025 17:50/4.1.287

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	05:32 (2)	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09 27	05:26 (2) 22:26 26	05:58 (2) 21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	05:26 (2) 04:27	05:32 (2) 05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10 27	05:53 (2) 22:26 27	05:59 (2) 21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	05:26 (2) 04:28	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 28	05:54 (2) 22:25 27	05:59 (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) 04:29	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 28	05:54 (2) 22:24 28	06:00 (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) 04:30	05:33 (2) 05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14 28	05:54 (2) 22:24 27	06:00 (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) 04:31	05:33 (2) 05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16 28	05:54 (2) 22:23 27	06:00 (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) 04:33	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 27	05:54 (2) 22:22 27	06:00 (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) 04:34	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 27	05:54 (2) 22:21 27	06:00 (2) 21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	05:27 (2) 04:35	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 27	05:54 (2) 22:20 27	06:01 (2) 21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	04:24	05:28 (2) 04:36	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 27	05:55 (2) 22:19 27	06:01 (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) 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 27	05:54 (2) 22:18 27	06:01 (2) 21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	05:28 (2) 04:39	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 27	05:55 (2) 22:16 27	06:01 (2) 21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	05:29 (2) 04:41	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 26	05:55 (2) 22:15 26	06:01 (2) 21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	05:28 (2) 04:42	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 27	05:55 (2) 22:14 26	06:01 (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) 04:44	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 27	05:55 (2) 22:12 25	06:00 (2) 21:09	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	05:29 (2) 04:46	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 26	05:55 (2) 22:11 25	06:01 (2) 21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	05:29 (2) 04:47	05:35 (2) 05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26 27	05:56 (2) 22:09 25	06:00 (2) 21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	05:35 (2) 04:21	05:29 (2) 04:49	05:36 (2) 05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44 7	05:42 (2) 22:26 27	05:56 (2) 22:08 24	06:00 (2) 21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	05:32 (2) 04:21	05:30 (2) 04:51	05:36 (2) 05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46 12	05:44 (2) 22:27 26	05:56 (2) 22:06 23	05:59 (2) 20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	05:31 (2) 04:21	05:30 (2) 04:52	05:37 (2) 05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48 15	05:46 (2) 22:27 26	05:56 (2) 22:05 22	05:59 (2) 20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	05:30 (2) 04:21	05:30 (2) 04:54	05:39 (2) 05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50 17	05:47 (2) 22:27 26	05:56 (2) 22:03 20	05:59 (2) 20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	05:28 (2) 04:22	05:31 (2) 04:56	05:39 (2) 06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51 20	05:48 (2) 22:28 26	05:57 (2) 22:01 18	05:57 (2) 20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	05:28 (2) 04:22	05:31 (2) 04:58	05:40 (2) 06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53 21	05:49 (2) 22:28 26	05:57 (2) 21:59 17	05:57 (2) 20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	05:27 (2) 04:22	05:31 (2) 05:00	05:42 (2) 06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55 22	05:49 (2) 22:28 26	05:57 (2) 21:58 14	05:56 (2) 20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	05:27 (2) 04:23	05:31 (2) 05:02	05:43 (2) 06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57 23	05:50 (2) 22:28 27	05:58 (2) 21:56 10	05:53 (2) 20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	05:27 (2) 04:23	05:31 (2) 05:04	05:47 (2) 06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	21:59 24	05:51 (2) 22:28 26	05:57 (2) 21:54 3	05:50 (2) 20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	05:26 (2) 04:24	05:32 (2) 05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01 25	05:51 (2) 22:28 26	05:58 (2) 21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:42	04:39	05:26 (2) 04:24	05:31 (2) 05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02 25	05:51 (2) 22:27 27	05:58 (2) 21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	05:26 (2) 04:25	05:32 (2) 05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04 26	05:52 (2) 22:27 26	05:58 (2) 21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	05:26 (2) 04:26	05:32 (2) 05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06 26	05:52 (2) 22:27 27	05:59 (2) 21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35	05:26 (2)	05:13	06:19		07:31		09:07
	16:44		19:59		22:07 27	05:53 (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					290		803	602				
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					101		256	204				

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		10:29 (13)	08:27		10:49 (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	31	11:00 (13)	16:46	13	11:02 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	35	10:49 (13)
2	09:06		10:30 (13)	08:25			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	32	11:02 (13)	16:48			17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	36	10:50 (13)
3	09:06		10:30 (13)	08:23			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	32	11:02 (13)	16:51			17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	35	10:50 (13)
4	09:05		10:30 (13)	08:21			07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		10:16 (13)
	15:49	32	11:02 (13)	16:53			17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	34	10:50 (13)
5	09:05		10:30 (13)	08:19			07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		10:16 (13)
	15:51	33	11:03 (13)	16:55			18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29			15:39	34	10:50 (13)
6	09:04		10:31 (13)	08:16			07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45			08:48		10:16 (13)
	15:52	33	11:04 (13)	16:58			18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	34	10:50 (13)
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			08:49		10:17 (13)
	15:54	34	11:05 (13)	17:00			18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	33	10:50 (13)
8	09:03		10:30 (13)	08:12			07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		10:18 (13)
	15:56	35	11:05 (13)	17:02			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	33	10:51 (13)
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		10:24 (13)	08:52		10:19 (13)
	15:57	35	11:06 (13)	17:05			18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	3	10:27 (13)	15:37	32	10:51 (13)
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		10:20 (13)	08:54		10:19 (13)
	15:59	35	11:06 (13)	17:07			18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	13	10:33 (13)	15:36	32	10:51 (13)
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		10:17 (13)	08:55		10:20 (13)
	16:01	35	11:07 (13)	17:10			18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	18	10:35 (13)	15:36	32	10:52 (13)
12	08:59		10:32 (13)	08:03			06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59		10:16 (13)	08:56		10:20 (13)
	16:03	35	11:07 (13)	17:12			18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	21	10:37 (13)	15:35	31	10:51 (13)
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		10:14 (13)	08:57		10:20 (13)
	16:04	36	11:08 (13)	17:14			18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12	24	10:38 (13)	15:35	31	10:51 (13)
14	08:57		10:32 (13)	07:58			06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03		10:13 (13)	08:59		10:22 (13)
	16:06	36	11:08 (13)	17:17			18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	27	10:40 (13)	15:35	30	10:52 (13)
15	08:56		10:33 (13)	07:55			06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06		10:12 (13)	09:00		10:22 (13)
	16:08	36	11:09 (13)	17:19			18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	29	10:41 (13)	15:35	30	10:52 (13)
16	08:54		10:33 (13)	07:53			06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08		10:12 (13)	09:01		10:23 (13)
	16:10	36	11:09 (13)	17:21			18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	30	10:42 (13)	15:35	30	10:53 (13)
17	08:53		10:33 (13)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10		10:12 (13)	09:02		10:23 (13)
	16:12	36	11:09 (13)	17:24			18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	31	10:43 (13)	15:35	30	10:53 (13)
18	08:52		10:34 (13)	07:48			06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		10:11 (13)	09:02		10:24 (13)
	16:14	36	11:10 (13)	17:26			18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	33	10:44 (13)	15:35	30	10:54 (13)
19	08:50		10:34 (13)	07:45			06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		10:11 (13)	09:03		10:24 (13)
	16:17	36	11:10 (13)	17:29			18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	34	10:45 (13)	15:35	29	10:53 (13)
20	08:49		10:35 (13)	07:43			06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		10:11 (13)	09:04		10:25 (13)
	16:19	35	11:10 (13)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	34	10:45 (13)	15:35	29	10:54 (13)
21	08:47		10:35 (13)	07:40			06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		10:11 (13)	09:05		10:26 (13)
	16:21	35	11:10 (13)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	35	10:46 (13)	15:36	29	10:55 (13)
22	08:46		10:36 (13)	07:38			06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		10:11 (13)	09:05		10:26 (13)
	16:23	34	11:10 (13)	17:36			18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	35	10:46 (13)	15:36	29	10:55 (13)
23	08:44		10:36 (13)	07:35			06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		10:11 (13)	09:06		10:27 (13)
	16:25	34	11:10 (13)	17:38			18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	35	10:46 (13)	15:37	29	10:56 (13)
24	08:42		10:37 (13)	07:33			06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		10:11 (13)	09:06		10:27 (13)
	16:27	33	11:10 (13)	17:40			18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	36	10:47 (13)	15:37	29	10:56 (13)
25	08:40		10:38 (13)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		10:11 (13)	09:06		10:27 (13)
	16:30	31	11:09 (13)	17:43			18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	36	10:47 (13)	15:38	29	10:56 (13)
26	08:39		10:39 (13)	07:27			06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		10:12 (13)	09:07		10:27 (13)
	16:32	30	11:09 (13)	17:45			18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	36	10:48 (13)	15:39	30	10:57 (13)
27	08:37		10:40 (13)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		10:12 (13)	09:07		10:28 (13)
	16:34	29	11:09 (13)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	36	10:48 (13)	15:40	29	10:57 (13)
28	08:35		10:41 (13)	07:22			06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		10:12 (13)	09:07		10:28 (13)
	16:37	27	11:08 (13)	17:49			18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	36	10:48 (13)	15:41	30	10:58 (13)
29	08:33		10:42 (13)				07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		10:12 (13)	09:07		10:29 (13)
	16:39	24	11:06 (13)				19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	36	10:48 (13)	15:42	30	10:59 (13)
30	08:31		10:44 (13)				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		10:13 (13)	09:07		10:28 (13)
	16:41	21	11:05 (13)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	35	10:48 (13)	15:43	31	10:59 (13)
31	08:29		10:46 (13)				06:56		04:34		05:13	06:19		07:31				09:07		10:29 (13)
	16:43	18	11:04 (13)				19:59		22:07		21:44	20:26		16:40				15:44	31	11:00 (13)
Potential sun hours	227			262			365	429	516	539	539	475	386	321	241			207		
Total, worst case		1005			13											653			966	
Sun reduction		0.13			0.22											0.15			0.13	
Oper. time red.		0.93			0.93											0.93			0.93	
Wind dir. red.		0.60			0.60											0.60			0.60	
Total reduction		0.07			0.12											0.09			0.07	
Total, real		73			2											56			68	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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) 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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	15:53	16:58	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
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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
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	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
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Total, worst case												
Sun reduction												
Oper. time red.												
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		11:59 (1)	08:27			07:20		08:08 (10)	06:54		05:34	04:33
	15:45	54	14:13 (3)	16:46			17:52	25	08:33 (10)	20:01		21:08	22:09
2	09:06		12:00 (1)	08:25			07:17		08:08 (10)	06:51		05:31	04:32
	15:47	51	14:14 (3)	16:48			17:54	24	08:32 (10)	20:03		21:10	22:10
3	09:06		12:01 (1)	08:23			07:14		08:09 (10)	06:48		05:29	04:30
	15:48	49	14:14 (3)	16:51			17:57	22	08:31 (10)	20:06		21:12	22:12
4	09:06		12:03 (1)	08:21			07:12		08:10 (10)	06:45		05:26	04:29
	15:50	43	14:14 (3)	16:53			17:59	21	08:31 (10)	20:08		21:14	22:13
5	09:05		12:05 (1)	08:19			07:09		08:11 (10)	06:43		05:24	04:28
	15:51	39	14:15 (3)	16:55			18:01	18	08:29 (10)	20:10		21:16	22:15
6	09:04		12:08 (1)	08:17			07:06		08:12 (10)	06:40		05:22	04:27
	15:53	30	14:15 (3)	16:58			18:03	15	08:27 (10)	20:12		21:19	22:16
7	09:04		13:57 (3)	08:14			07:03		08:15 (10)	06:37		05:19	04:26
	15:54	18	14:15 (3)	17:00			18:06	8	08:23 (10)	20:14		21:21	22:17
8	09:03		13:57 (3)	08:12			07:01			06:34		05:17	04:26
	15:56	17	14:14 (3)	17:03			18:08			20:17		21:23	22:18
9	09:02		13:58 (3)	08:10			06:58			06:32		05:15	04:25
	15:57	16	14:14 (3)	17:05			18:10			20:19		21:25	22:19
10	09:01		14:00 (3)	08:07			06:55			06:29		05:13	04:24
	15:59	14	14:14 (3)	17:07			18:12			20:21		21:27	22:20
11	09:00		14:01 (3)	08:05			06:52			06:26		05:10	04:23
	16:01	13	14:14 (3)	17:10			18:15			20:23		21:29	22:21
12	08:59		14:03 (3)	08:03			06:50			06:23		05:08	04:23
	16:03	9	14:12 (3)	17:12			18:17			20:25		21:31	22:22
13	08:58		14:06 (3)	08:00			06:47			06:21		05:06	04:22
	16:05	5	14:11 (3)	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		08:19 (10)	06:30			06:05		04:54	04:21
	16:17			17:29	6	08:25 (10)	18:33			20:41		21:46	22:27
20	08:49			07:43		08:16 (10)	06:27			06:02		04:52	04:21
	16:19			17:31	13	08:29 (10)	18:35			20:43		21:48	22:27
21	08:47			07:41		08:13 (10)	06:25			05:59		04:50	04:21
	16:21			17:33	17	08:30 (10)	18:37			20:45		21:50	22:28
22	08:46			07:38		08:12 (10)	06:22			05:57		04:48	04:21
	16:23			17:36	19	08:31 (10)	18:39			20:48		21:52	22:28
23	08:44			07:35		08:10 (10)	06:19			05:54		04:47	04:21
	16:25			17:38	22	08:32 (10)	18:41			20:50		21:53	22:28
24	08:42			07:33		08:10 (10)	06:16			05:51		04:45	04:22
	16:28			17:40	23	08:33 (10)	18:44			20:52		21:55	22:28
25	08:41			07:30		08:09 (10)	06:13			05:49		04:43	04:22
	16:30			17:43	24	08:33 (10)	18:46			20:54		21:57	22:28
26	08:39			07:28		08:08 (10)	06:11			05:46		04:41	04:23
	16:32			17:45	25	08:33 (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	25	08:33 (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	26	08:34 (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		358			200			133					
Sun reduction		0.13			0.22			0.37					
Oper. time red.		0.93			0.93			0.93					
Wind dir. red.		0.64			0.61			0.61					
Total reduction		0.08			0.12			0.21					
Total, real		28			25			28					

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		13:44 (3)
	22:26	21:41	20:24	19:00		16:38		15:43	12	13:56 (3)
2	04:27	05:17	06:23	07:27		07:36		08:41		13:43 (3)
	22:26	21:39	20:21	18:57		16:36		15:42	14	13:57 (3)
3	04:28	05:19	06:25	07:29		07:38		08:43		13:42 (3)
	22:25	21:37	20:18	18:54		16:33		15:41	16	13:58 (3)
4	04:29	05:21	06:27	07:31		07:41		08:44		13:42 (3)
	22:24	21:35	20:15	18:51		16:31		15:40	17	13:59 (3)
5	04:30	05:23	06:29	07:33		07:43		08:46		13:42 (3)
	22:24	21:33	20:12	18:48		16:29		15:39	18	14:00 (3)
6	04:31	05:26	06:32	07:35		07:45		08:48		11:54 (1)
	22:23	21:30	20:10	18:46		16:27		15:39	26	14:00 (3)
7	04:32	05:28	06:34	07:38	08:49 (10)	07:48		08:49		11:52 (1)
	22:22	21:28	20:07	18:43	11 09:00 (10)	16:24		15:38	37	14:01 (3)
8	04:33	05:30	06:36	07:40	08:47 (10)	07:50		08:51		11:51 (1)
	22:21	21:26	20:04	18:40	16 09:03 (10)	16:22		15:37	43	14:02 (3)
9	04:35	05:32	06:38	07:42	08:45 (10)	07:52		08:52		11:51 (1)
	22:20	21:23	20:01	18:37	19 09:04 (10)	16:20		15:37	48	14:03 (3)
10	04:36	05:34	06:40	07:44	08:43 (10)	07:54		08:54		11:50 (1)
	22:19	21:21	19:59	18:35	22 09:05 (10)	16:18		15:36	50	14:03 (3)
11	04:37	05:36	06:42	07:46	08:43 (10)	07:57		08:55		11:50 (1)
	22:18	21:18	19:56	18:32	23 09:06 (10)	16:16		15:36	54	14:04 (3)
12	04:39	05:38	06:44	07:48	08:42 (10)	07:59		08:56		11:49 (1)
	22:17	21:16	19:53	18:29	24 09:06 (10)	16:14		15:36	57	14:05 (3)
13	04:40	05:40	06:46	07:51	08:41 (10)	08:01		08:58		11:49 (1)
	22:15	21:13	19:50	18:27	25 09:06 (10)	16:12		15:35	58	14:05 (3)
14	04:42	05:43	06:48	07:53	08:41 (10)	08:04		08:59		11:50 (1)
	22:14	21:11	19:47	18:24	26 09:07 (10)	16:10		15:35	59	14:06 (3)
15	04:43	05:45	06:51	07:55	08:41 (10)	08:06		09:00		11:50 (1)
	22:13	21:08	19:44	18:21	25 09:06 (10)	16:08		15:35	60	14:06 (3)
16	04:45	05:47	06:53	07:57	08:40 (10)	08:08		09:01		11:50 (1)
	22:11	21:06	19:42	18:19	25 09:05 (10)	16:06		15:35	63	14:07 (3)
17	04:47	05:49	06:55	08:00	08:41 (10)	08:10		09:02		11:50 (1)
	22:10	21:03	19:39	18:16	24 09:05 (10)	16:04		15:35	63	14:07 (3)
18	04:48	05:51	06:57	08:02	08:41 (10)	08:13		09:03		11:51 (1)
	22:08	21:01	19:36	18:13	23 09:04 (10)	16:02		15:35	64	14:08 (3)
19	04:50	05:53	06:59	08:04	08:42 (10)	08:15		09:03		11:50 (1)
	22:06	20:58	19:33	18:11	21 09:03 (10)	16:00		15:35	65	14:08 (3)
20	04:52	05:55	07:01	08:06	08:43 (10)	08:17		09:04		11:51 (1)
	22:05	20:56	19:30	18:08	19 09:02 (10)	15:59		15:36	65	14:09 (3)
21	04:54	05:57	07:03	08:09	08:44 (10)	08:19		09:05		11:52 (1)
	22:03	20:53	19:28	18:05	16 09:00 (10)	15:57		15:36	65	14:10 (3)
22	04:56	06:00	07:05	08:11	08:47 (10)	08:21		09:05		11:52 (1)
	22:01	20:50	19:25	18:03	11 08:58 (10)	15:55		15:36	65	14:10 (3)
23	04:57	06:02	07:07	08:13		08:23		09:06		11:53 (1)
	21:59	20:48	19:22	18:00		15:54		15:37	65	14:11 (3)
24	04:59	06:04	07:10	08:15		08:25		09:06		11:53 (1)
	21:58	20:45	19:19	17:58		15:52		15:38	65	14:11 (3)
25	05:01	06:06	07:12	07:18		08:27		09:07		11:54 (1)
	21:56	20:42	19:16	16:55		15:51		15:38	64	14:11 (3)
26	05:03	06:08	07:14	07:20		08:29		09:07		11:54 (1)
	21:54	20:40	19:14	16:53		15:49		15:39	64	14:11 (3)
27	05:05	06:10	07:16	07:22		08:31		09:07		11:55 (1)
	21:52	20:37	19:11	16:50		15:48		15:40	63	14:12 (3)
28	05:07	06:12	07:18	07:25		08:33		09:07		11:56 (1)
	21:50	20:34	19:08	16:48		15:47		15:41	61	14:12 (3)
29	05:09	06:15	07:20	07:27		08:35	13:46 (3)	09:07		11:57 (1)
	21:48	20:32	19:05	16:45		15:46	4 13:50 (3)	15:42	61	14:13 (3)
30	05:11	06:17	07:22	07:29		08:37	13:45 (3)	09:07		11:58 (1)
	21:46	20:29	19:02	16:43		15:44	9 13:54 (3)	15:43	60	14:14 (3)
31	05:13	06:19		07:31				09:07		11:58 (1)
	21:44	20:26		16:40				15:44	57	14:13 (3)
Potential sun hours	538	474	386	321		241		207		
Total, worst case				330		13		1579		
Sun reduction				0.31		0.15		0.13		
Oper. time red.				0.93		0.93		0.93		
Wind dir. red.				0.61		0.63		0.65		
Total reduction				0.17		0.09		0.08		
Total, real				57		1		121		

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)

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Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		11:08 (11)	08:27		12:52 (10)	07:20			06:54			05:34		04:33		
	15:45	72	13:10 (10)	16:46	15	13:07 (10)	17:52			20:01			21:07		22:09		
2	09:06		11:10 (11)	08:25		12:58 (10)	07:17			06:51			05:31		04:32		
	15:47	70	13:11 (10)	16:48	2	13:00 (10)	17:54			20:03			21:10		22:10		
3	09:06		11:10 (11)	08:23			07:14			06:48			05:29		04:30		
	15:48	70	13:11 (10)	16:51			17:56			20:06			21:12		22:12		
4	09:05		11:10 (11)	08:21		08:52 (12)	07:11			06:45			05:26		04:29		
	15:49	70	13:11 (10)	16:53	6	08:58 (12)	17:59			20:08			21:14		22:13		
5	09:05		11:11 (11)	08:19		08:50 (12)	07:09			06:43			05:24		04:28		
	15:51	70	13:12 (10)	16:55	12	09:02 (12)	18:01			20:10			21:16		22:15		
6	09:04		11:13 (11)	08:16		08:48 (12)	07:06			06:40			05:22		04:27		
	15:52	69	13:13 (10)	16:58	16	09:04 (12)	18:03			20:12			21:18		22:16		
7	09:04		11:13 (11)	08:14		08:47 (12)	07:03			06:37			05:19		04:26		
	15:54	70	13:14 (10)	17:00	18	09:05 (12)	18:06			20:14			21:21		22:17		
8	09:03		11:13 (11)	08:12		08:46 (12)	07:01			06:34			05:17		04:25		
	15:56	69	13:13 (10)	17:02	20	09:06 (12)	18:08			20:17			21:23		22:18		
9	09:02		11:14 (11)	08:10		08:45 (12)	06:58			06:32			05:15		04:25		
	15:57	68	13:14 (10)	17:05	22	09:07 (12)	18:10			20:19			21:25		22:19		
10	09:01		11:16 (11)	08:07		08:45 (12)	06:55			06:29			05:12		04:24		
	15:59	67	13:15 (10)	17:07	23	09:08 (12)	18:12			20:21			21:27		22:20		
11	09:00		11:17 (11)	08:05		08:44 (12)	06:52			06:26			05:10		04:23		
	16:01	65	13:15 (10)	17:10	24	09:08 (12)	18:15			20:23			21:29		22:21		
12	08:59		11:18 (11)	08:03		08:44 (12)	06:50			06:23			05:08		04:23		
	16:03	63	13:15 (10)	17:12	24	09:08 (12)	18:17			20:25			21:31		22:22		
13	08:58		11:19 (11)	08:00		08:44 (12)	06:47		07:19 (13)	06:21			05:06		04:22		
	16:05	62	13:16 (10)	17:14	24	09:08 (12)	18:19	8	07:27 (13)	20:28			21:33		22:23		
14	08:57		11:21 (11)	07:58		08:44 (12)	06:44		07:15 (13)	06:18			05:04		04:22		
	16:06	58	13:16 (10)	17:17	24	09:08 (12)	18:21	15	07:30 (13)	20:30			21:36		22:24		
15	08:56		11:23 (11)	07:55		08:45 (12)	06:41		07:13 (13)	06:15			05:02		04:21		
	16:08	54	13:16 (10)	17:19	23	09:08 (12)	18:24	19	07:32 (13)	20:32			21:38		22:25		
16	08:54		11:26 (11)	07:53		08:45 (12)	06:38		07:11 (13)	06:12			05:00		04:21		
	16:10	48	13:16 (10)	17:22	22	09:07 (12)	18:26	22	07:33 (13)	20:34			21:40		22:25		
17	08:53		12:33 (10)	07:51		08:45 (12)	06:36		07:10 (13)	06:10			04:58		04:21		
	16:12	43	13:16 (10)	17:24	21	09:06 (12)	18:28	24	07:34 (13)	20:36			21:42		22:26		
18	08:52		12:34 (10)	07:48		08:47 (12)	06:33		07:09 (13)	06:07			04:56		04:21		
	16:15	43	13:17 (10)	17:26	19	09:06 (12)	18:30	25	07:34 (13)	20:39			21:44		22:26		
19	08:50		12:35 (10)	07:46		08:48 (12)	06:30		07:08 (13)	06:04			04:54		04:21		
	16:17	42	13:17 (10)	17:29	16	09:04 (12)	18:32	27	07:35 (13)	20:41			21:46		22:27		
20	08:49		12:35 (10)	07:43		08:49 (12)	06:27		07:07 (13)	06:02			04:52		04:21		
	16:19	42	13:17 (10)	17:31	13	09:02 (12)	18:35	27	07:34 (13)	20:43			21:48		22:27		
21	08:47		12:36 (10)	07:40		08:54 (12)	06:25		07:07 (13)	05:59			04:50		04:21		
	16:21	41	13:17 (10)	17:33	4	08:58 (12)	18:37	28	07:35 (13)	20:45			21:50		22:28		
22	08:46		12:36 (10)	07:38			06:22		07:07 (13)	05:57			04:48		04:21		
	16:23	40	13:16 (10)	17:36			18:39	28	07:35 (13)	20:48			21:51		22:28		
23	08:44		12:37 (10)	07:35			06:19		07:06 (13)	05:54			04:46		04:21		
	16:25	39	13:16 (10)	17:38			18:41	28	07:34 (13)	20:50			21:53		22:28		
24	08:42		12:38 (10)	07:33			06:16		07:06 (13)	05:51			04:45		04:22		
	16:28	38	13:16 (10)	17:40			18:44	27	07:33 (13)	20:52			21:55		22:28		
25	08:41		12:39 (10)	07:30			06:13		07:06 (13)	05:49			04:43		04:22		
	16:30	37	13:16 (10)	17:43			18:46	26	07:32 (13)	20:54			21:57		22:28		
26	08:39		12:40 (10)	07:27			06:11		07:06 (13)	05:46			04:41		04:22		
	16:32	35	13:15 (10)	17:45			18:48	25	07:31 (13)	20:56			21:59		22:28		
27	08:37		12:42 (10)	07:25			06:08		07:08 (13)	05:44			04:40		04:23		
	16:34	33	13:15 (10)	17:47			18:50	22	07:30 (13)	20:59			22:01		22:28		
28	08:35		12:43 (10)	07:22			06:05		07:09 (13)	05:41			04:38		04:24		
	16:37	31	13:14 (10)	17:50			18:52	19	07:28 (13)	21:01			22:02		22:27		
29	08:33		12:44 (10)				07:02		08:10 (13)	05:39			04:37		04:24		
	16:39	28	13:12 (10)				19:55	15	08:25 (13)	21:03			22:04		22:27		
30	08:31		12:46 (10)				06:59		08:13 (13)	05:36			04:35		04:25		
	16:41	25	13:11 (10)				19:57	8	08:21 (13)	21:05			22:06		22:27		
31	08:29		12:48 (10)				06:57						04:34				
	16:44	21	13:09 (10)				19:59						22:07				
Potential sun hours	227			262			365			429			515		539		
Total, worst case		1583			348			393									
Sun reduction		0.13			0.22			0.37									
Oper. time red.		0.93			0.93			0.93									
Wind dir. red.		0.65			0.63			0.62									
Total reduction		0.08			0.13			0.21									
Total, real		126			45			83									

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)

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SHADOW - Calendar

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Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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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		10:59 (11)
	22:26	21:41	20:23			18:59			16:38	22	08:37 (12)	15:43	65	12:57 (10)
2	04:27	05:17	06:23			07:27			07:36		08:15 (12)	08:41		10:59 (11)
	22:26	21:39	20:21			18:57			16:36	21	08:36 (12)	15:42	67	12:58 (10)
3	04:28	05:19	06:25			07:29			07:38		08:16 (12)	08:43		10:59 (11)
	22:25	21:37	20:18			18:54			16:33	20	08:36 (12)	15:41	67	12:58 (10)
4	04:29	05:21	06:27			07:31			07:41		08:17 (12)	08:44		10:59 (11)
	22:24	21:35	20:15			18:51			16:31	17	08:34 (12)	15:40	68	12:58 (10)
5	04:30	05:23	06:29			07:33			07:43		08:18 (12)	08:46		10:59 (11)
	22:24	21:33	20:12			18:48			16:29	16	08:34 (12)	15:39	69	12:59 (10)
6	04:31	05:25	06:31			07:35			07:45		08:20 (12)	08:48		10:58 (11)
	22:23	21:30	20:10			18:46			16:26	11	08:31 (12)	15:39	70	12:58 (10)
7	04:32	05:28	06:34			07:37			07:47		08:24 (12)	08:49		10:58 (11)
	22:22	21:28	20:07			18:43			16:24	4	08:28 (12)	15:38	70	12:59 (10)
8	04:33	05:30	06:36			07:40			07:50			08:51		10:59 (11)
	22:21	21:26	20:04			18:40			16:22			15:37	69	12:59 (10)
9	04:35	05:32	06:38			07:42			07:52		12:27 (10)	08:52		10:59 (11)
	22:20	21:23	20:01			18:37			16:20	5	12:32 (10)	15:37	70	13:00 (10)
10	04:36	05:34	06:40			07:44			07:54		12:22 (10)	08:54		10:59 (11)
	22:19	21:21	19:58			18:35			16:18	16	12:38 (10)	15:36	71	13:00 (10)
11	04:37	05:36	06:42			07:46			07:57		12:19 (10)	08:55		11:00 (11)
	22:18	21:18	19:56			18:32			16:16	21	12:40 (10)	15:36	71	13:01 (10)
12	04:39	05:38	06:44			07:48			07:59		12:18 (10)	08:56		10:59 (11)
	22:16	21:16	19:53			18:29			16:14	25	12:43 (10)	15:35	72	13:01 (10)
13	04:40	05:40	06:46		08:05 (13)	07:51			08:01		12:16 (10)	08:57		10:59 (11)
	22:15	21:13	19:50	7	08:12 (13)	18:26			16:12	28	12:44 (10)	15:35	72	13:01 (10)
14	04:42	05:42	06:48		08:01 (13)	07:53			08:03		12:15 (10)	08:59		11:01 (11)
	22:14	21:11	19:47	14	08:15 (13)	18:24			16:10	31	12:46 (10)	15:35	71	13:02 (10)
15	04:43	05:45	06:50		07:59 (13)	07:55			08:06		12:14 (10)	09:00		11:01 (11)
	22:12	21:08	19:44	18	08:17 (13)	18:21			16:08	33	12:47 (10)	15:35	71	13:02 (10)
16	04:45	05:47	06:53		07:57 (13)	07:57			08:08		12:13 (10)	09:01		11:01 (11)
	22:11	21:06	19:42	21	08:18 (13)	18:18			16:06	35	12:48 (10)	15:35	72	13:03 (10)
17	04:47	05:49	06:55		07:55 (13)	07:59			08:10		12:13 (10)	09:02		11:02 (11)
	22:09	21:03	19:39	24	08:19 (13)	18:16			16:04	37	12:50 (10)	15:35	71	13:03 (10)
18	04:48	05:51	06:57		07:54 (13)	08:02			08:12		12:12 (10)	09:02		11:02 (11)
	22:08	21:01	19:36	25	08:19 (13)	18:13			16:02	38	12:50 (10)	15:35	71	13:03 (10)
19	04:50	05:53	06:59		07:53 (13)	08:04			08:15		12:12 (10)	09:03		11:02 (11)
	22:06	20:58	19:33	26	08:19 (13)	18:10			16:00	39	12:51 (10)	15:35	71	13:03 (10)
20	04:52	05:55	07:01		07:53 (13)	08:06			08:17		12:11 (10)	09:04		11:02 (11)
	22:05	20:56	19:30	27	08:20 (13)	18:08			15:59	40	12:51 (10)	15:36	72	13:04 (10)
21	04:54	05:57	07:03		07:52 (13)	08:08		09:22 (12)	08:19		12:12 (10)	09:05		11:03 (11)
	22:03	20:53	19:27	28	08:20 (13)	18:05	8	09:30 (12)	15:57	41	12:53 (10)	15:36	72	13:05 (10)
22	04:55	06:00	07:05		07:52 (13)	08:11		09:20 (12)	08:21		12:11 (10)	09:05		11:03 (11)
	22:01	20:50	19:25	28	08:20 (13)	18:03	13	09:33 (12)	15:55	42	12:53 (10)	15:36	72	13:05 (10)
23	04:57	06:02	07:07		07:51 (13)	08:13		09:18 (12)	08:23		12:11 (10)	09:06		11:04 (11)
	21:59	20:48	19:22	28	08:19 (13)	18:00	17	09:35 (12)	15:54	42	12:53 (10)	15:37	72	13:06 (10)
24	04:59	06:04	07:10		07:51 (13)	08:15		09:16 (12)	08:25		12:11 (10)	09:06		11:05 (11)
	21:58	20:45	19:19	27	08:18 (13)	17:58	19	09:35 (12)	15:52	43	12:54 (10)	15:37	71	13:06 (10)
25	05:01	06:06	07:12		07:51 (13)	07:18		08:15 (12)	08:27		12:11 (10)	09:06		11:05 (11)
	21:56	20:42	19:16	26	08:17 (13)	16:55	22	08:37 (12)	15:51	43	12:54 (10)	15:38	71	13:06 (10)
26	05:03	06:08	07:14		07:51 (13)	07:20		08:14 (12)	08:29		11:05 (11)	09:07		11:05 (11)
	21:54	20:40	19:13	25	08:16 (13)	16:53	23	08:37 (12)	15:49	48	12:55 (10)	15:39	73	13:07 (10)
27	05:05	06:10	07:16		07:52 (13)	07:22		08:14 (12)	08:31		11:02 (11)	09:07		11:06 (11)
	21:52	20:37	19:11	23	08:15 (13)	16:50	24	08:38 (12)	15:48	55	12:56 (10)	15:40	71	13:07 (10)
28	05:07	06:12	07:18		07:54 (13)	07:24		08:13 (12)	08:33		11:01 (11)	09:07		11:06 (11)
	21:50	20:34	19:08	20	08:14 (13)	16:48	24	08:37 (12)	15:47	58	12:56 (10)	15:41	73	13:08 (10)
29	05:09	06:14	07:20		07:55 (13)	07:27		08:14 (12)	08:35		11:00 (11)	09:07		11:07 (11)
	21:48	20:32	19:05	17	08:12 (13)	16:45	24	08:38 (12)	15:45	61	12:56 (10)	15:42	72	13:09 (10)
30	05:11	06:17	07:22		07:57 (13)	07:29		08:13 (12)	08:37		10:59 (11)	09:07		11:07 (11)
	21:46	20:29	19:02	11	08:08 (13)	16:43	24	08:37 (12)	15:44	63	12:56 (10)	15:43	71	13:08 (10)
31	05:13	06:19				07:31		08:14 (12)				09:07		11:08 (11)
	21:44	20:26				16:40	23	08:37 (12)				15:44	72	13:09 (10)
Potential sun hours	539	475	386			321			241			207		
Total, worst case				395			221			955			2190	
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				98			40			89			168	

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:
17.09.2025 17:50/4.1.287

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:
17.09.2025 17:50/4.1.287

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)		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)

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Calculated:
17.09.2025 17:50/4.1.287

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		09:25 (2)	07:20			06:54		07:58 (5)	05:34		06:24 (4)	04:33		06:16 (3)
	15:46			16:46	31	09:56 (2)	17:52			20:01	13	08:11 (5)	21:08	25	06:49 (4)	22:09	39	06:55 (3)
2	09:06			08:25		09:24 (2)	07:17			06:51		08:02 (5)	05:31		06:23 (3)	04:32		06:16 (3)
	15:47			16:49	32	09:56 (2)	17:54			20:04	4	08:06 (5)	21:10	25	06:48 (4)	22:10	39	06:55 (3)
3	09:06			08:23		09:24 (2)	07:14			06:48			05:29		05:58 (1)	04:31		06:16 (3)
	15:48			16:51	33	09:57 (2)	17:57			20:06			21:12	29	06:47 (4)	22:12	38	06:54 (3)
4	09:05			08:21		09:24 (2)	07:12			06:46			05:27		05:56 (1)	04:30		06:17 (3)
	15:50			16:53	33	09:57 (2)	17:59			20:08			21:14	36	06:49 (3)	22:13	37	06:54 (3)
5	09:05			08:19		09:24 (2)	07:09			06:43			05:24		05:54 (1)	04:29		06:17 (3)
	15:51			16:56	33	09:57 (2)	18:01			20:10			21:16	41	06:50 (3)	22:15	37	06:54 (3)
6	09:04			08:17		09:24 (2)	07:06			06:40			05:22		05:52 (1)	04:28		06:17 (3)
	15:53			16:58	34	09:58 (2)	18:04			20:12			21:19	46	06:51 (3)	22:16	36	06:53 (3)
7	09:04			08:14		09:23 (2)	07:04			06:37			05:20		05:50 (1)	04:27		06:18 (3)
	15:54			17:00	34	09:57 (2)	18:06			20:15			21:21	50	06:52 (3)	22:17	36	06:54 (3)
8	09:03			08:12		09:24 (2)	07:01			06:35			05:17		05:48 (1)	04:26		06:18 (3)
	15:56			17:03	34	09:58 (2)	18:08			20:17			21:23	54	06:53 (3)	22:18	35	06:53 (3)
9	09:02			08:10		09:24 (2)	06:58			06:32			05:15		05:47 (1)	04:25		06:19 (3)
	15:58			17:05	33	09:57 (2)	18:10			20:19			21:25	57	06:54 (3)	22:19	34	06:53 (3)
10	09:01			08:08		09:25 (2)	06:55			06:29			05:13		05:47 (1)	04:24		06:19 (3)
	15:59			17:08	33	09:58 (2)	18:13			20:21			21:27	58	06:54 (3)	22:20	34	06:53 (3)
11	09:00			08:05		09:25 (2)	06:53			06:26			05:11		05:47 (1)	04:24		06:19 (3)
	16:01			17:10	32	09:57 (2)	18:15			20:23			21:29	58	06:55 (3)	22:21	34	06:53 (3)
12	08:59			08:03		09:26 (2)	06:50			06:24			05:08		05:47 (1)	04:23		06:20 (3)
	16:03			17:12	31	09:57 (2)	18:17			20:26			21:31	59	06:55 (3)	22:22	33	06:53 (3)
13	08:58			08:00		09:26 (2)	06:47			06:21			05:06		05:47 (1)	04:23		06:21 (3)
	16:05			17:15	30	09:56 (2)	18:19			20:28			21:34	58	06:55 (3)	22:23	32	06:53 (3)
14	08:57			07:58		09:26 (2)	06:44			06:18			05:04		05:48 (1)	04:22		06:21 (3)
	16:07			17:17	29	09:55 (2)	18:22			20:30			21:36	58	06:55 (3)	22:24	31	06:52 (3)
15	08:56			07:56		09:28 (2)	06:41			06:15			05:02		05:48 (1)	04:22		06:21 (3)
	16:09			17:19	26	09:54 (2)	18:24			20:32			21:38	57	06:55 (3)	22:25	32	06:53 (3)
16	08:55			07:53		09:29 (2)	06:39			06:13			05:00		05:49 (1)	04:22		06:22 (3)
	16:11			17:22	23	09:52 (2)	18:26			20:34			21:40	54	06:55 (3)	22:25	31	06:53 (3)
17	08:53			07:51		09:31 (2)	06:36			06:10			04:58		05:51 (1)	04:21		06:22 (3)
	16:13			17:24	20	09:51 (2)	18:28			20:37			21:42	52	06:55 (3)	22:26	31	06:53 (3)
18	08:52			07:48		09:33 (2)	06:33		07:03 (5)	06:07			04:56		05:55 (1)	04:21		06:23 (3)
	16:15			17:27	15	09:48 (2)	18:30	12	07:15 (5)	20:39			21:44	45	06:56 (3)	22:26	30	06:53 (3)
19	08:50			07:46		09:37 (2)	06:30		07:00 (5)	06:05			04:54		06:12 (3)	04:21		06:23 (3)
	16:17			17:29	6	09:43 (2)	18:33	17	07:17 (5)	20:41			21:46	44	06:56 (3)	22:27	30	06:53 (3)
20	08:49			07:43			06:28		06:59 (5)	06:02		06:32 (4)	04:52		06:11 (3)	04:21		06:23 (3)
	16:19			17:31			18:35	20	07:19 (5)	20:43	12	06:44 (4)	21:48	44	06:55 (3)	22:27	30	06:53 (3)
21	08:47			07:41			06:25		06:58 (5)	05:59		06:31 (4)	04:50		06:12 (3)	04:21		06:23 (3)
	16:21			17:34			18:37	21	07:19 (5)	20:45	15	06:46 (4)	21:50	44	06:56 (3)	22:28	30	06:53 (3)
22	08:46			07:38			06:22		06:56 (5)	05:57		06:28 (4)	04:49		06:12 (3)	04:21		06:23 (3)
	16:23			17:36			18:39	24	07:20 (5)	20:48	19	06:47 (4)	21:52	43	06:55 (3)	22:28	30	06:53 (3)
23	08:44			07:35			06:19		06:55 (5)	05:54		06:27 (4)	04:47		06:12 (3)	04:22		06:24 (3)
	16:26			17:38			18:42	25	07:20 (5)	20:50	21	06:48 (4)	21:53	44	06:56 (3)	22:28	30	06:54 (3)
24	08:42		09:34 (2)	07:33			06:16		06:55 (5)	05:52		06:26 (4)	04:45		06:12 (3)	04:22		06:24 (3)
	16:28	8	09:42 (2)	17:41			18:44	25	07:20 (5)	20:52	22	06:48 (4)	21:55	43	06:55 (3)	22:28	30	06:54 (3)
25	08:41		09:31 (2)	07:30			06:14		06:54 (5)	05:49		06:25 (4)	04:43		06:13 (3)	04:22		06:24 (3)
	16:30	15	09:46 (2)	17:43			18:46	25	07:19 (5)	20:54	24	06:49 (4)	21:57	42	06:55 (3)	22:28	31	06:55 (3)
26	08:39		09:30 (2)	07:28			06:11		06:54 (5)	05:46		06:25 (4)	04:42		06:13 (3)	04:23		06:24 (3)
	16:32	18	09:48 (2)	17:45			18:48	26	07:20 (5)	20:57	25	06:50 (4)	21:59	43	06:56 (3)	22:28	31	06:55 (3)
27	08:37		09:28 (2)	07:25			06:08		06:54 (5)	05:44		06:24 (4)	04:40		06:13 (3)	04:23		06:24 (3)
	16:35	22	09:50 (2)	17:48			18:50	25	07:19 (5)	20:59	25	06:49 (4)	22:01	42	06:55 (3)	22:28	32	06:56 (3)
28	08:35		09:28 (2)	07:22			06:05		06:54 (5)	05:41		06:24 (4)	04:39		06:14 (3)	04:24		06:24 (3)
	16:37	23	09:51 (2)	17:50			18:53	24	07:18 (5)	21:01	25	06:49 (4)	22:02	41	06:55 (3)	22:27	32	06:56 (3)
29	08:33		09:26 (2)				07:02		07:54 (5)	05:39		06:24 (4)	04:37		06:14 (3)	04:25		06:24 (3)
	16:39	26	09:52 (2)				19:55	22	08:16 (5)	21:03	26	06:50 (4)	22:04	41	06:55 (3)	22:27	32	06:56 (3)
30	08:31		09:26 (2)				07:00		07:56 (5)	05:36		06:24 (4)	04:36		06:15 (3)	04:25		06:25 (3)
	16:42	27	09:53 (2)				19:57	20	08:16 (5)	21:05	25	06:49 (4)	22:06	40	06:55 (3)	22:27	32	06:57 (3)
31	08:29		09:25 (2)				06:57		07:57 (5)				04:34		06:15 (3)			
	16:44	29	09:54 (2)				19:59	17	08:14 (5)				22:07	40	06:55 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		168			542			303			256			1413			989	
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		13			71			65			70			479			308	

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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		06:24 (3)	05:15		05:57 (1)	06:21			07:25			07:34		08:54 (2)	08:39	
	22:26	33	06:57 (3)	21:41	58	07:05 (3)	20:24			19:00			16:38	33	09:27 (2)	15:44	
2	04:27		06:24 (3)	05:17		05:57 (1)	06:23			07:27			07:36		08:53 (2)	08:41	
	22:26	33	06:57 (3)	21:39	59	07:05 (3)	20:21			18:57			16:36	34	09:27 (2)	15:42	
3	04:28		06:24 (3)	05:19		05:57 (1)	06:25			07:29			07:38		08:54 (2)	08:43	
	22:25	34	06:58 (3)	21:37	57	07:04 (3)	20:18			18:54			16:34	34	09:28 (2)	15:42	
4	04:29		06:24 (3)	05:22		05:56 (1)	06:27			07:31			07:41		08:53 (2)	08:44	
	22:24	35	06:59 (3)	21:35	57	07:03 (3)	20:15			18:51			16:31	34	09:27 (2)	15:41	
5	04:30		06:24 (3)	05:24		05:58 (1)	06:30			07:33			07:43		08:54 (2)	08:46	
	22:24	35	06:59 (3)	21:33	53	07:02 (3)	20:13			18:49			16:29	34	09:28 (2)	15:40	
6	04:31		06:24 (3)	05:26		06:00 (1)	06:32			07:35			07:45		08:53 (2)	08:48	
	22:23	36	07:00 (3)	21:30	48	07:01 (3)	20:10			18:46			16:27	34	09:27 (2)	15:39	
7	04:32		06:24 (3)	05:28		06:02 (1)	06:34			07:38			07:48		08:54 (2)	08:49	
	22:22	36	07:00 (3)	21:28	44	07:00 (3)	20:07			18:43			16:25	33	09:27 (2)	15:38	
8	04:34		06:23 (3)	05:30		06:04 (1)	06:36			07:40			07:50		08:55 (2)	08:51	
	22:21	37	07:00 (3)	21:26	39	06:59 (3)	20:04			18:40			16:22	32	09:27 (2)	15:38	
9	04:35		06:23 (3)	05:32		06:06 (1)	06:38			07:42			07:52		08:55 (2)	08:52	
	22:20	38	07:01 (3)	21:23	34	06:58 (3)	20:01			18:38			16:20	31	09:26 (2)	15:37	
10	04:36		06:24 (3)	05:34		06:08 (1)	06:40		07:56 (5)	07:44			07:54		08:56 (2)	08:54	
	22:19	38	07:02 (3)	21:21	27	06:56 (4)	19:59	2	07:58 (5)	18:35			16:18	30	09:26 (2)	15:37	
11	04:38		06:23 (3)	05:36		06:32 (3)	06:42		07:51 (5)	07:46			07:57		08:56 (2)	08:55	
	22:18	39	07:02 (3)	21:18	25	06:57 (4)	19:56	12	08:03 (5)	18:32			16:16	29	09:25 (2)	15:36	
12	04:39		06:23 (3)	05:38		06:33 (4)	06:44		07:48 (5)	07:49			07:59		08:57 (2)	08:56	
	22:16	39	07:02 (3)	21:16	24	06:57 (4)	19:53	17	08:05 (5)	18:29			16:14	28	09:25 (2)	15:36	
13	04:41		06:22 (3)	05:41		06:32 (4)	06:47		07:46 (5)	07:51			08:01		08:58 (2)	08:58	
	22:15	40	07:02 (3)	21:14	25	06:57 (4)	19:50	20	08:06 (5)	18:27			16:12	26	09:24 (2)	15:36	
14	04:42		06:23 (3)	05:43		06:32 (4)	06:49		07:45 (5)	07:53			08:04		09:00 (2)	08:59	
	22:14	40	07:03 (3)	21:11	25	06:57 (4)	19:47	22	08:07 (5)	18:24			16:10	23	09:23 (2)	15:35	
15	04:44		06:22 (3)	05:45		06:32 (4)	06:51		07:44 (5)	07:55			08:06		09:01 (2)	09:00	
	22:12	41	07:03 (3)	21:09	25	06:57 (4)	19:45	23	08:07 (5)	18:21			16:08	22	09:23 (2)	15:35	
16	04:45		06:23 (3)	05:47		06:32 (4)	06:53		07:43 (5)	07:57			08:08		09:03 (2)	09:01	
	22:11	41	07:04 (3)	21:06	25	06:57 (4)	19:42	24	08:07 (5)	18:19			16:06	18	09:21 (2)	15:35	
17	04:47		06:22 (3)	05:49		06:32 (4)	06:55		07:43 (5)	08:00			08:10		09:05 (2)	09:02	
	22:10	42	07:04 (3)	21:03	24	06:56 (4)	19:39	25	08:08 (5)	18:16			16:04	15	09:20 (2)	15:35	
18	04:49		06:22 (3)	05:51		06:32 (4)	06:57		07:42 (5)	08:02			08:13		09:08 (2)	09:03	
	22:08	43	07:05 (3)	21:01	24	06:56 (4)	19:36	26	08:08 (5)	18:13			16:02	8	09:16 (2)	15:35	
19	04:50		06:22 (3)	05:53		06:33 (4)	06:59		07:42 (5)	08:04			08:15			09:03	
	22:06	43	07:05 (3)	20:58	22	06:55 (4)	19:33	25	08:07 (5)	18:11			16:01			15:36	
20	04:52		06:22 (3)	05:56		06:33 (4)	07:01		07:42 (5)	08:06			08:17			09:04	
	22:05	44	07:06 (3)	20:56	21	06:54 (4)	19:30	24	08:06 (5)	18:08			15:59			15:36	
21	04:54		06:23 (3)	05:58		06:34 (4)	07:03		07:42 (5)	08:09			08:19			09:05	
	22:03	43	07:06 (3)	20:53	18	06:52 (4)	19:28	24	08:06 (5)	18:06			15:57			15:36	
22	04:56		06:22 (3)	06:00		06:35 (4)	07:05		07:42 (5)	08:11			08:21			09:05	
	22:01	44	07:06 (3)	20:50	15	06:50 (4)	19:25	22	08:04 (5)	18:03			15:56			15:37	
23	04:58		06:22 (3)	06:02		06:38 (4)	07:08		07:43 (5)	08:13		10:06 (2)	08:23			09:06	
	21:59	44	07:06 (3)	20:48	10	06:48 (4)	19:22	20	08:03 (5)	18:00	9	10:15 (2)	15:54			15:37	
24	05:00		06:23 (3)	06:04			07:10		07:44 (5)	08:15		10:03 (2)	08:25			09:06	
	21:58	44	07:07 (3)	20:45			19:19	17	08:01 (5)	17:58	16	10:19 (2)	15:53			15:38	
25	05:01		06:22 (3)	06:06			07:12		07:45 (5)	07:18		09:00 (2)	08:27			09:06	
	21:56	44	07:06 (3)	20:43			19:16	14	07:59 (5)	16:55	21	09:21 (2)	15:51			15:39	
26	05:03		06:03 (1)	06:08			07:14		07:48 (5)	07:20		08:59 (2)	08:29			09:07	
	21:54	49	07:06 (3)	20:40			19:14	7	07:55 (5)	16:53	24	09:23 (2)	15:50			15:39	
27	05:05		06:01 (1)	06:10			07:16			07:22		08:57 (2)	08:31			09:07	
	21:52	53	07:06 (3)	20:37			19:11			16:50	27	09:24 (2)	15:48			15:40	
28	05:07		06:00 (1)	06:13			07:18			07:25		08:57 (2)	08:33			09:07	
	21:50	55	07:06 (3)	20:34			19:08			16:48	28	09:25 (2)	15:47			15:41	
29	05:09		05:58 (1)	06:15			07:20			07:27		08:55 (2)	08:35			09:07	
	21:48	57	07:05 (3)	20:32			19:05			16:45	30	09:25 (2)	15:46			15:42	
30	05:11		05:58 (1)	06:17			07:23			07:29		08:55 (2)	08:37			09:07	
	21:46	57	07:05 (3)	20:29			19:02			16:43	32	09:27 (2)	15:45			15:43	
31	05:13		05:57 (1)	06:19						07:31		08:54 (2)				09:07	
	21:44	59	07:05 (3)	20:26						16:41	32	09:26 (2)				15:44	
Potential sun hours	538			474			386			321			241			207	
Total, worst case		1316			759			324			219			498			
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		435			243			82			39			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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		11:55 (11)	08:27		09:19 (12)	07:20		07:57 (13)	06:54		05:34	04:33
	15:45	50	13:47 (10)	16:46	25	09:44 (12)	17:52	10	08:07 (13)	20:01		21:07	22:09
2	09:06		11:57 (11)	08:25		09:18 (12)	07:17		07:53 (13)	06:51		05:31	04:31
	15:47	47	13:48 (10)	16:48	25	09:43 (12)	17:54	16	08:09 (13)	20:03		21:10	22:10
3	09:06		11:59 (11)	08:23		09:19 (12)	07:14		07:51 (13)	06:48		05:29	04:30
	15:48	44	13:48 (10)	16:51	24	09:43 (12)	17:56	20	08:11 (13)	20:06		21:12	22:12
4	09:05		12:01 (11)	08:21		09:19 (12)	07:11		07:49 (13)	06:45		05:26	04:29
	15:49	41	13:48 (10)	16:53	23	09:42 (12)	17:59	23	08:12 (13)	20:08		21:14	22:13
5	09:05		13:12 (10)	08:19		09:20 (12)	07:09		07:48 (13)	06:43		05:24	04:28
	15:51	37	13:49 (10)	16:55	22	09:42 (12)	18:01	26	08:14 (13)	20:10		21:16	22:15
6	09:04		13:14 (10)	08:16		09:21 (12)	07:06		07:47 (13)	06:40		05:22	04:27
	15:52	36	13:50 (10)	16:58	21	09:42 (12)	18:03	28	08:15 (13)	20:12		21:18	22:16
7	09:04		13:14 (10)	08:14		09:21 (12)	07:03		07:46 (13)	06:37		05:19	04:26
	15:54	36	13:50 (10)	17:00	20	09:41 (12)	18:06	29	08:15 (13)	20:14		21:21	22:17
8	09:03		13:14 (10)	08:12		09:23 (12)	07:01		07:45 (13)	06:34		05:17	04:25
	15:56	36	13:50 (10)	17:02	17	09:40 (12)	18:08	30	08:15 (13)	20:17		21:23	22:18
9	09:02		13:14 (10)	08:10		09:24 (12)	06:58		07:44 (13)	06:32		05:15	04:25
	15:57	36	13:50 (10)	17:05	14	09:38 (12)	18:10	31	08:15 (13)	20:19		21:25	22:19
10	09:01		13:15 (10)	08:07		09:27 (12)	06:55		07:44 (13)	06:29		05:12	04:24
	15:59	36	13:51 (10)	17:07	9	09:36 (12)	18:12	32	08:16 (13)	20:21		21:27	22:20
11	09:00		13:16 (10)	08:05			06:52		07:44 (13)	06:26		05:10	04:23
	16:01	35	13:51 (10)	17:10			18:15	31	08:15 (13)	20:23		21:29	22:21
12	08:59		13:16 (10)	08:03			06:50		07:43 (13)	06:23		05:08	04:23
	16:03	35	13:51 (10)	17:12			18:17	32	08:15 (13)	20:25		21:31	22:22
13	08:58		13:17 (10)	08:00			06:47		07:43 (13)	06:21		05:06	04:22
	16:05	35	13:52 (10)	17:14			18:19	31	08:14 (13)	20:28		21:33	22:23
14	08:57		13:17 (10)	07:58			06:44		07:43 (13)	06:18		05:04	04:22
	16:06	34	13:51 (10)	17:17			18:21	30	08:13 (13)	20:30		21:35	22:24
15	08:56		13:18 (10)	07:55			06:41		07:44 (13)	06:15		05:02	04:21
	16:08	34	13:52 (10)	17:19			18:24	28	08:12 (13)	20:32		21:38	22:25
16	08:54		13:19 (10)	07:53			06:38		07:45 (13)	06:12		05:00	04:21
	16:10	33	13:52 (10)	17:21			18:26	26	08:11 (13)	20:34		21:40	22:25
17	08:53		13:19 (10)	07:51			06:36		07:46 (13)	06:10		04:58	04:21
	16:12	32	13:51 (10)	17:24			18:28	24	08:10 (13)	20:36		21:42	22:26
18	08:52		13:21 (10)	07:48			06:33		07:47 (13)	06:07		04:56	04:21
	16:15	31	13:52 (10)	17:26			18:30	20	08:07 (13)	20:39		21:44	22:26
19	08:50		13:21 (10)	07:46			06:30		07:48 (13)	06:04		04:54	04:21
	16:17	30	13:51 (10)	17:29			18:32	17	08:05 (13)	20:41		21:46	22:27
20	08:49		13:22 (10)	07:43			06:27		07:51 (13)	06:02		04:52	04:21
	16:19	29	13:51 (10)	17:31			18:35	10	08:01 (13)	20:43		21:48	22:27
21	08:47		09:24 (12)	07:40			06:25			05:59		04:50	04:21
	16:21	35	13:50 (10)	17:33			18:37			20:45		21:50	22:28
22	08:46		09:22 (12)	07:38			06:22			05:57		04:48	04:21
	16:23	39	13:50 (10)	17:36			18:39			20:48		21:51	22:28
23	08:44		09:21 (12)	07:35			06:19			05:54		04:46	04:21
	16:25	38	13:49 (10)	17:38			18:41			20:50		21:53	22:28
24	08:42		09:20 (12)	07:33			06:16			05:51		04:45	04:22
	16:27	38	13:48 (10)	17:40			18:43			20:52		21:55	22:28
25	08:41		09:19 (12)	07:30			06:13			05:49		04:43	04:22
	16:30	36	13:46 (10)	17:43			18:46			20:54		21:57	22:28
26	08:39		09:19 (12)	07:27			06:11			05:46		04:41	04:22
	16:32	32	13:44 (10)	17:45			18:48			20:56		21:59	22:28
27	08:37		09:19 (12)	07:25			06:08			05:44		04:40	04:23
	16:34	22	09:41 (12)	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	23	09:42 (12)	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	24	09:42 (12)				19:55			21:03		22:04	22:27
30	08:31		09:18 (12)				06:59			05:36		04:35	04:25
	16:41	24	09:42 (12)				19:57			21:05		22:06	22:27
31	08:29		09:18 (12)				06:57					04:34	
	16:44	25	09:43 (12)				19:59					22:07	
Potential sun hours	227			262			365			429		515	539
Total, worst case		1063			200			494					
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		83			26			98					

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		08:23 (13)	07:34		08:56 (12)	08:39		12:58 (10)
	22:26		21:41		20:23			18:59	31	08:54 (13)	16:38	10	09:06 (12)	15:43	36	13:34 (10)
2	04:27		05:17		06:23			07:27		08:22 (13)	07:36		08:54 (12)	08:41		12:58 (10)
	22:26		21:39		20:21			18:57	31	08:53 (13)	16:36	14	09:08 (12)	15:42	36	13:34 (10)
3	04:28		05:19		06:25			07:29		08:21 (13)	07:38		08:53 (12)	08:43		12:58 (10)
	22:25		21:37		20:18			18:54	32	08:53 (13)	16:33	17	09:10 (12)	15:41	36	13:34 (10)
4	04:29		05:21		06:27			07:31		08:22 (13)	07:41		08:51 (12)	08:44		12:59 (10)
	22:24		21:35		20:15			18:51	31	08:53 (13)	16:31	20	09:11 (12)	15:40	36	13:35 (10)
5	04:30		05:23		06:29			07:33		08:22 (13)	07:43		08:51 (12)	08:46		12:59 (10)
	22:24		21:32		20:12			18:48	30	08:52 (13)	16:29	21	09:12 (12)	15:39	36	13:35 (10)
6	04:31		05:25		06:31			07:35		08:22 (13)	07:45		08:49 (12)	08:48		12:59 (10)
	22:23		21:30		20:10			18:46	29	08:51 (13)	16:26	23	09:12 (12)	15:39	36	13:35 (10)
7	04:32		05:27		06:34			07:37		08:22 (13)	07:47		08:49 (12)	08:49		12:59 (10)
	22:22		21:28		20:07			18:43	28	08:50 (13)	16:24	24	09:13 (12)	15:38	37	13:36 (10)
8	04:33		05:30		06:36			07:40		08:23 (13)	07:50		08:49 (12)	08:51		11:49 (11)
	22:21		21:26		20:04			18:40	27	08:50 (13)	16:22	24	09:13 (12)	15:37	41	13:36 (10)
9	04:35		05:32		06:38			07:42		08:23 (13)	07:52		08:49 (12)	08:52		11:48 (11)
	22:20		21:23		20:01			18:37	25	08:48 (13)	16:20	25	09:14 (12)	15:37	44	13:37 (10)
10	04:36		05:34		06:40			07:44		08:24 (13)	07:54		08:49 (12)	08:54		11:47 (11)
	22:19		21:21		19:58			18:35	22	08:46 (13)	16:18	25	09:14 (12)	15:36	46	13:37 (10)
11	04:37		05:36		06:42			07:46		08:25 (13)	07:57		08:49 (12)	08:55		11:47 (11)
	22:18		21:18		19:56			18:32	19	08:44 (13)	16:16	25	09:14 (12)	15:36	48	13:38 (10)
12	04:39		05:38		06:44			07:48		08:28 (13)	07:59		08:50 (12)	08:56		11:46 (11)
	22:16		21:16		19:53			18:29	14	08:42 (13)	16:14	24	09:14 (12)	15:35	50	13:38 (10)
13	04:40		05:40		06:46			07:51		08:33 (13)	08:01		08:50 (12)	08:57		11:46 (11)
	22:15		21:13		19:50			18:26	4	08:37 (13)	16:12	24	09:14 (12)	15:35	51	13:38 (10)
14	04:42		05:42		06:48			07:53			08:03		08:51 (12)	08:59		11:46 (11)
	22:14		21:11		19:47			18:24			16:10	23	09:14 (12)	15:35	52	13:39 (10)
15	04:43		05:45		06:50			07:55			08:06		08:51 (12)	09:00		11:46 (11)
	22:12		21:08		19:44			18:21			16:08	22	09:13 (12)	15:35	53	13:39 (10)
16	04:45		05:47		06:53			07:57			08:08		08:52 (12)	09:01		11:46 (11)
	22:11		21:06		19:42			18:18			16:06	32	13:17 (10)	15:35	54	13:40 (10)
17	04:47		05:49		06:55			07:59			08:10		08:53 (12)	09:02		11:47 (11)
	22:09		21:03		19:39			18:16			16:04	36	13:20 (10)	15:35	53	13:40 (10)
18	04:48		05:51		06:57			08:02			08:12		08:54 (12)	09:02		11:47 (11)
	22:08		21:01		19:36			18:13			16:02	39	13:22 (10)	15:35	54	13:41 (10)
19	04:50		05:53		06:59			08:04			08:15		08:56 (12)	09:03		11:47 (11)
	22:06		20:58		19:33			18:10			16:00	38	13:24 (10)	15:35	54	13:41 (10)
20	04:52		05:55		07:01			08:06			08:17		08:57 (12)	09:04		11:47 (11)
	22:05		20:56		19:30			18:08			15:59	39	13:25 (10)	15:35	55	13:41 (10)
21	04:54		05:57		07:03			08:08			08:19		09:00 (12)	09:05		11:48 (11)
	22:03		20:53		19:27			18:05			15:57	35	13:26 (10)	15:36	55	13:42 (10)
22	04:55		05:59		07:05			08:11			08:21		12:58 (10)	09:05		11:48 (11)
	22:01		20:50		19:25			18:03			15:55	29	13:27 (10)	15:36	55	13:42 (10)
23	04:57		06:02		07:07		08:38 (13)	08:13			08:23		12:57 (10)	09:06		11:49 (11)
	21:59		20:48		19:22	6	08:44 (13)	18:00			15:54	31	13:28 (10)	15:37	55	13:43 (10)
24	04:59		06:04		07:10		08:33 (13)	08:15			08:25		12:58 (10)	09:06		11:50 (11)
	21:58		20:45		19:19	15	08:48 (13)	17:58			15:52	31	13:29 (10)	15:37	53	13:43 (10)
25	05:01		06:06		07:12		08:30 (13)	07:18			08:27		12:57 (10)	09:06		11:50 (11)
	21:56		20:42		19:16	20	08:50 (13)	16:55			15:51	32	13:29 (10)	15:38	54	13:44 (10)
26	05:03		06:08		07:14		08:28 (13)	07:20			08:29		12:58 (10)	09:07		11:50 (11)
	21:54		20:40		19:13	23	08:51 (13)	16:53			15:49	33	13:31 (10)	15:39	54	13:44 (10)
27	05:05		06:10		07:16		08:26 (13)	07:22			08:31		12:57 (10)	09:07		11:51 (11)
	21:52		20:37		19:11	26	08:52 (13)	16:50			15:48	34	13:31 (10)	15:40	53	13:45 (10)
28	05:07		06:12		07:18		08:26 (13)	07:24			08:33		12:57 (10)	09:07		11:52 (11)
	21:50		20:34		19:08	27	08:53 (13)	16:48			15:47	34	13:31 (10)	15:41	53	13:45 (10)
29	05:09		06:14		07:20		08:25 (13)	07:27			08:35		12:57 (10)	09:07		11:53 (11)
	21:48		20:32		19:05	29	08:54 (13)	16:45			15:45	35	13:32 (10)	15:42	52	13:46 (10)
30	05:11		06:17		07:22		08:23 (13)	07:29			08:37		12:57 (10)	09:07		11:53 (11)
	21:46		20:29		19:02	31	08:54 (13)	16:43			15:44	35	13:32 (10)	15:43	51	13:46 (10)
31	05:13		06:19					07:31						09:07		11:55 (11)
	21:44		20:26					16:40						15:44	51	13:47 (10)
Potential sun hours	539		475		386			321			241			207		
Total, worst case					177			323			834			1494		
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			0.64		
Total reduction					0.23			0.17			0.09			0.08		
Total, real					41			54			76			114		

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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	16:05	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
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	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
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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Potential sun hours	227	262	365	429	515	539	538	475	386	321	241	207
Total, worst case												
Sun reduction												
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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

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	January	February	March	April	May	June	July	August	September	October	November	December
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	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
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	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
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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	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)

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Calculated:
17.09.2025 17:50/4.1.287

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		10:37 (11)	08:27		12:02 (10)	07:20			06:54		07:52 (13)	05:34	04:33
	15:45	76	12:31 (10)	16:46	46	15:50 (1)	17:52			20:01	18	08:10 (13)	21:07	22:09
2	09:06		10:38 (11)	08:25		12:02 (10)	07:17			06:51		07:53 (13)	05:31	04:32
	15:47	77	12:32 (10)	16:48	39	15:46 (1)	17:54			20:03	14	08:07 (13)	21:10	22:10
3	09:06		10:39 (11)	08:23		12:04 (10)	07:14			06:48		07:56 (13)	05:29	04:30
	15:48	77	12:33 (10)	16:51	32	12:36 (10)	17:56			20:06	8	08:04 (13)	21:12	22:12
4	09:05		10:39 (11)	08:21		12:05 (10)	07:11			06:45			05:26	04:29
	15:49	77	12:33 (10)	16:53	29	12:34 (10)	17:59			20:08			21:14	22:13
5	09:05		10:39 (11)	08:19		12:08 (10)	07:09			06:43			05:24	04:28
	15:51	78	12:34 (10)	16:55	24	12:32 (10)	18:01			20:10			21:16	22:15
6	09:04		10:41 (11)	08:16		12:11 (10)	07:06			06:40			05:22	04:27
	15:52	76	12:35 (10)	16:58	19	12:30 (10)	18:03			20:12			21:18	22:16
7	09:04		10:41 (11)	08:14		12:16 (10)	07:03			06:37			05:19	04:26
	15:54	78	12:36 (10)	17:00	8	12:24 (10)	18:06			20:14			21:21	22:17
8	09:03		10:41 (11)	08:12			07:01			06:34			05:17	04:25
	15:56	77	12:35 (10)	17:03			18:08			20:17			21:23	22:18
9	09:02		10:41 (11)	08:10			06:58			06:32			05:15	04:25
	15:57	78	12:36 (10)	17:05			18:10			20:19			21:25	22:19
10	09:01		10:42 (11)	08:07			06:55			06:29			05:12	04:24
	15:59	78	12:37 (10)	17:07			18:12			20:21			21:27	22:20
11	09:00		10:43 (11)	08:05			06:52			06:26			05:10	04:23
	16:01	78	12:38 (10)	17:10			18:15			20:23			21:29	22:21
12	08:59		10:43 (11)	08:03		08:33 (12)	06:50			06:23			05:08	04:23
	16:03	77	12:38 (10)	17:12	9	08:42 (12)	18:17			20:25			21:31	22:22
13	08:58		10:44 (11)	08:00		08:30 (12)	06:47			06:21			05:06	04:22
	16:05	78	12:39 (10)	17:14	14	08:44 (12)	18:19			20:28			21:33	22:23
14	08:57		10:44 (11)	07:58		08:27 (12)	06:44			06:18			05:04	04:22
	16:06	77	12:39 (10)	17:17	18	08:45 (12)	18:21			20:30			21:36	22:24
15	08:56		10:46 (11)	07:55		08:27 (12)	06:41			06:15			05:02	04:21
	16:08	76	12:40 (10)	17:19	19	08:46 (12)	18:24			20:32			21:38	22:25
16	08:54		10:46 (11)	07:53		08:26 (12)	06:39			06:12			05:00	04:21
	16:10	75	12:40 (10)	17:22	21	08:47 (12)	18:26			20:34			21:40	22:25
17	08:53		10:47 (11)	07:51		08:25 (12)	06:36			06:10			04:58	04:21
	16:12	74	12:40 (10)	17:24	22	08:47 (12)	18:28			20:36			21:42	22:26
18	08:52		10:49 (11)	07:48		08:25 (12)	06:33			06:07			04:56	04:21
	16:15	72	12:41 (10)	17:26	23	08:48 (12)	18:30			20:39			21:44	22:26
19	08:50		10:50 (11)	07:46		08:25 (12)	06:30		06:59 (13)	06:04			04:54	04:21
	16:17	72	15:36 (1)	17:29	23	08:48 (12)	18:32	12	07:11 (13)	20:41			21:46	22:27
20	08:49		10:51 (11)	07:43		08:24 (12)	06:27		06:56 (13)	06:02			04:52	04:21
	16:19	73	15:38 (1)	17:31	23	08:47 (12)	18:35	17	07:13 (13)	20:43			21:48	22:27
21	08:47		10:52 (11)	07:40		08:25 (12)	06:25		06:55 (13)	05:59			04:50	04:21
	16:21	73	15:41 (1)	17:33	23	08:48 (12)	18:37	20	07:15 (13)	20:45			21:50	22:28
22	08:46		10:54 (11)	07:38		08:25 (12)	06:22		06:53 (13)	05:57			04:48	04:21
	16:23	72	15:43 (1)	17:36	22	08:47 (12)	18:39	22	07:15 (13)	20:48			21:51	22:28
23	08:44		10:57 (11)	07:35		08:26 (12)	06:19		06:52 (13)	05:54			04:46	04:21
	16:25	68	15:46 (1)	17:38	20	08:46 (12)	18:41	24	07:16 (13)	20:50			21:53	22:28
24	08:42		11:54 (10)	07:33		08:27 (12)	06:16		06:51 (13)	05:51			04:45	04:22
	16:28	62	15:48 (1)	17:40	18	08:45 (12)	18:44	25	07:16 (13)	20:52			21:55	22:28
25	08:41		11:55 (10)	07:30		08:28 (12)	06:13		06:50 (13)	05:49			04:43	04:22
	16:30	63	15:51 (1)	17:43	15	08:43 (12)	18:46	25	07:15 (13)	20:54			21:57	22:28
26	08:39		11:56 (10)	07:27		08:30 (12)	06:11		06:49 (13)	05:46			04:41	04:22
	16:32	63	15:52 (1)	17:45	10	08:40 (12)	18:48	26	07:15 (13)	20:56			21:59	22:28
27	08:37		11:57 (10)	07:25			06:08		06:50 (13)	05:44			04:40	04:23
	16:34	62	15:53 (1)	17:47			18:50	25	07:15 (13)	20:59			22:01	22:28
28	08:35		11:57 (10)	07:22			06:05		06:50 (13)	05:41			04:38	04:24
	16:37	62	15:53 (1)	17:50			18:52	25	07:15 (13)	21:01			22:02	22:27
29	08:33		11:58 (10)				07:02		07:50 (13)	05:39			04:37	04:24
	16:39	59	15:52 (1)				19:55	24	08:14 (13)	21:03			22:04	22:27
30	08:31		11:59 (10)				06:59		07:50 (13)	05:36			04:35	04:25
	16:41	55	15:51 (1)				19:57	22	08:12 (13)	21:05			22:06	22:27
31	08:29		12:00 (10)				06:57		07:51 (13)				04:34	
	16:44	52	15:51 (1)				19:59	21	08:12 (13)				22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		2215			477			288			40			
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		173			62			62			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)

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Calculated:
17.09.2025 17:50/4.1.287

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			08:39		10:25 (11)
	22:26	21:41	20:23			18:59			16:38			15:43	78	12:20 (10)
2	04:27	05:17	06:23			07:27			07:36			08:41		10:25 (11)
	22:26	21:39	20:21			18:57			16:36			15:42	78	12:20 (10)
3	04:28	05:19	06:25			07:29			07:38			08:43		10:25 (11)
	22:25	21:37	20:18			18:54			16:33			15:41	78	12:20 (10)
4	04:29	05:21	06:27			07:31			07:41		11:44 (10)	08:44		10:26 (11)
	22:24	21:35	20:15			18:51			16:31	11	11:55 (10)	15:40	78	12:21 (10)
5	04:30	05:23	06:29			07:33			07:43		11:41 (10)	08:46		10:26 (11)
	22:24	21:33	20:12			18:48			16:29	19	12:00 (10)	15:39	78	12:21 (10)
6	04:31	05:25	06:31			07:35			07:45		11:37 (10)	08:48		10:26 (11)
	22:23	21:30	20:10			18:46			16:26	25	12:02 (10)	15:39	77	12:20 (10)
7	04:32	05:28	06:34			07:37			07:47		11:36 (10)	08:49		10:26 (11)
	22:22	21:28	20:07			18:43			16:24	29	12:05 (10)	15:38	77	12:21 (10)
8	04:33	05:30	06:36			07:40			07:50		11:35 (10)	08:51		10:27 (11)
	22:21	21:26	20:04			18:40			16:22	32	12:07 (10)	15:37	77	12:21 (10)
9	04:35	05:32	06:38		07:50 (13)	07:42			07:52		11:33 (10)	08:52		10:28 (11)
	22:20	21:23	20:01	7	07:57 (13)	18:37			16:20	40	15:18 (1)	15:37	77	12:22 (10)
10	04:36	05:34	06:40		07:47 (13)	07:44			07:54		11:32 (10)	08:54		10:28 (11)
	22:19	21:21	19:58	13	08:00 (13)	18:35			16:18	47	15:21 (1)	15:36	77	12:22 (10)
11	04:37	05:36	06:42		07:44 (13)	07:46			07:57		11:31 (10)	08:55		10:28 (11)
	22:18	21:18	19:56	18	08:02 (13)	18:32			16:16	52	15:22 (1)	15:36	76	12:22 (10)
12	04:39	05:38	06:44		07:43 (13)	07:48			07:59		11:30 (10)	08:56		10:29 (11)
	22:16	21:16	19:53	20	08:03 (13)	18:29			16:14	56	15:23 (1)	15:35	75	12:22 (10)
13	04:40	05:40	06:46		07:41 (13)	07:51			08:01		11:29 (10)	08:57		10:29 (11)
	22:15	21:13	19:50	23	08:04 (13)	18:26			16:12	59	15:23 (1)	15:35	75	12:22 (10)
14	04:42	05:42	06:48		07:40 (13)	07:53			08:03		11:29 (10)	08:59		10:30 (11)
	22:14	21:11	19:47	24	08:04 (13)	18:24			16:10	62	15:25 (1)	15:35	75	12:23 (10)
15	04:43	05:45	06:50		07:39 (13)	07:55		09:05 (12)	08:06		11:28 (10)	09:00		10:30 (11)
	22:12	21:08	19:44	25	08:04 (13)	18:21	5	09:10 (12)	16:08	63	15:24 (1)	15:35	74	12:23 (10)
16	04:45	05:47	06:53		07:38 (13)	07:57		09:01 (12)	08:08		11:29 (10)	09:01		10:31 (11)
	22:11	21:06	19:42	26	08:04 (13)	18:18	13	09:14 (12)	16:06	63	15:25 (1)	15:35	75	12:24 (10)
17	04:47	05:49	06:55		07:38 (13)	07:59		08:59 (12)	08:10		11:29 (10)	09:02		10:31 (11)
	22:09	21:03	19:39	26	08:04 (13)	18:16	16	09:15 (12)	16:04	63	15:25 (1)	15:35	74	12:24 (10)
18	04:48	05:51	06:57		07:38 (13)	08:02		08:58 (12)	08:12		11:28 (10)	09:02		10:32 (11)
	22:08	21:01	19:36	25	08:03 (13)	18:13	19	09:17 (12)	16:02	62	15:22 (1)	15:35	75	12:25 (10)
19	04:50	05:53	06:59		07:37 (13)	08:04		08:57 (12)	08:15		10:32 (11)	09:03		10:31 (11)
	22:06	20:58	19:33	25	08:02 (13)	18:10	20	09:17 (12)	16:00	68	15:21 (1)	15:35	74	12:24 (10)
20	04:52	05:55	07:01		07:38 (13)	08:06		08:56 (12)	08:17		10:29 (11)	09:04		10:32 (11)
	22:05	20:56	19:30	24	08:02 (13)	18:08	22	09:18 (12)	15:59	72	15:18 (1)	15:36	74	12:25 (10)
21	04:54	05:57	07:03		07:39 (13)	08:08		08:55 (12)	08:19		10:28 (11)	09:05		10:33 (11)
	22:03	20:53	19:27	22	08:01 (13)	18:05	23	09:18 (12)	15:57	73	15:17 (1)	15:36	74	12:26 (10)
22	04:55	06:00	07:05		07:39 (13)	08:11		08:56 (12)	08:21		10:27 (11)	09:05		10:33 (11)
	22:01	20:50	19:25	21	08:00 (13)	18:03	22	09:18 (12)	15:55	72	15:14 (1)	15:36	74	12:26 (10)
23	04:57	06:02	07:07		07:40 (13)	08:13		08:55 (12)	08:23		10:26 (11)	09:06		10:34 (11)
	21:59	20:48	19:22	18	07:58 (13)	18:00	23	09:18 (12)	15:54	72	15:12 (1)	15:37	74	12:27 (10)
24	04:59	06:04	07:10		07:42 (13)	08:15		08:55 (12)	08:25		10:26 (11)	09:06		10:34 (11)
	21:58	20:45	19:19	13	07:55 (13)	17:58	22	09:17 (12)	15:52	72	12:18 (10)	15:37	74	12:27 (10)
25	05:01	06:06	07:12		07:45 (13)	07:18		07:55 (12)	08:27		10:25 (11)	09:06		10:35 (11)
	21:56	20:42	19:16	6	07:51 (13)	16:55	22	08:17 (12)	15:51	74	12:18 (10)	15:38	74	12:28 (10)
26	05:03	06:08	07:14			07:20		07:55 (12)	08:29		10:25 (11)	09:07		10:35 (11)
	21:54	20:40	19:13			16:53	21	08:16 (12)	15:49	75	12:19 (10)	15:39	74	12:28 (10)
27	05:05	06:10	07:16			07:22		07:57 (12)	08:31		10:25 (11)	09:07		10:35 (11)
	21:52	20:37	19:11			16:50	19	08:16 (12)	15:48	76	12:19 (10)	15:40	75	12:29 (10)
28	05:07	06:12	07:18			07:24		07:57 (12)	08:33		10:25 (11)	09:07		10:36 (11)
	21:50	20:34	19:08			16:48	17	08:14 (12)	15:47	76	12:19 (10)	15:41	74	12:29 (10)
29	05:09	06:14	07:20			07:27		08:00 (12)	08:35		10:24 (11)	09:07		10:37 (11)
	21:48	20:32	19:05			16:45	13	08:13 (12)	15:45	78	12:19 (10)	15:42	75	12:30 (10)
30	05:11	06:17	07:22			07:29		08:02 (12)	08:37		10:24 (11)	09:07		10:36 (11)
	21:46	20:29	19:02			16:43	8	08:10 (12)	15:44	77	12:19 (10)	15:43	75	12:30 (10)
31	05:13	06:19				07:31						09:07		10:37 (11)
	21:44	20:26				16:40						15:44	76	12:31 (10)
Potential sun hours	538	475	386			321			241			207		
Total, worst case				336			285			1568			2341	
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			0.62			0.65			0.64	
Total reduction				0.25			0.18			0.09			0.08	
Total, real				85			50			146			176	

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)

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Calculated:
17.09.2025 17:50/4.1.287

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	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	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	04:30	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
	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
	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	06:53	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	22:26	22:08	21:01	19:36	18:13	16:02	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
	16:16	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	09:06
	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	06:10	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	15:43
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)

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Calculated:
17.09.2025 17:50/4.1.287

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		15:27 (9)	07:19	06:54			05:34		19:06 (12)	04:33
	15:45		16:46	24	15:51 (9)	17:52	20:01			21:07	39	19:45 (12)	22:09
2	09:06		08:25		15:27 (9)	07:17	06:51			05:31		19:06 (12)	04:31
	15:47		16:48	24	15:51 (9)	17:54	20:03			21:09	37	19:43 (12)	22:10
3	09:06		08:23		15:28 (9)	07:14	06:48			05:29		19:07 (12)	04:30
	15:48		16:51	24	15:52 (9)	17:56	20:05			21:12	36	19:43 (12)	22:12
4	09:05		08:21		15:28 (9)	07:11	06:45			05:26		19:08 (12)	04:29
	15:49		16:53	23	15:51 (9)	17:59	20:08			21:14	34	19:42 (12)	22:13
5	09:05		08:18		15:29 (9)	07:09	06:42			05:24		19:09 (12)	04:28
	15:51		16:55	21	15:50 (9)	18:01	20:10			21:16	32	19:41 (12)	22:14
6	09:04		08:16		15:30 (9)	07:06	06:40			05:22		19:09 (12)	04:27
	15:52		16:58	19	15:49 (9)	18:03	20:12			21:18	30	19:39 (12)	22:16
7	09:03		08:14		15:32 (9)	07:03	06:37			05:19		19:10 (12)	04:26
	15:54		17:00	17	15:49 (9)	18:05	20:14			21:20	28	19:38 (12)	22:17
8	09:03		08:12		15:33 (9)	07:00	06:34			05:17		19:12 (12)	04:25
	15:56		17:02	14	15:47 (9)	18:08	20:16			21:23	25	19:37 (12)	22:18
9	09:02		08:10		15:36 (9)	06:58	06:31			05:15		19:13 (12)	04:25
	15:57		17:05	9	15:45 (9)	18:10	20:19			21:25	22	19:35 (12)	22:19
10	09:01		08:07			06:55	06:29		19:26 (12)	05:12		19:15 (12)	04:24
	15:59		17:07			18:12	20:21	6	19:32 (12)	21:27	18	19:33 (12)	22:20
11	09:00		08:05			06:52	06:26		19:20 (12)	05:10		19:18 (12)	04:23
	16:01		17:10			18:14	20:23	17	19:37 (12)	21:29	13	19:31 (12)	22:21
12	08:59		08:03			06:49	06:23		19:18 (12)	05:08			04:23
	16:03		17:12			18:17	20:25	22	19:40 (12)	21:31			22:22
13	08:58		08:00			06:47	06:20		19:15 (12)	05:06			04:22
	16:04		17:14			18:19	20:27	27	19:42 (12)	21:33			22:23
14	08:57		07:58			06:44	06:18		19:13 (12)	05:04			04:22
	16:06		17:17			18:21	20:30	30	19:43 (12)	21:35			22:24
15	08:55		07:55			06:41	06:15		19:12 (12)	05:02			04:21
	16:08		17:19			18:23	20:32	32	19:44 (12)	21:37			22:24
16	08:54		07:53			06:38	06:12		19:10 (12)	05:00			04:21
	16:10		17:21			18:26	20:34	35	19:45 (12)	21:39			22:25
17	08:53		07:50			06:36	06:10		19:10 (12)	04:58			04:21
	16:12		17:24			18:28	20:36	36	19:46 (12)	21:41			22:26
18	08:51		07:48			06:33	06:07		19:08 (12)	04:56			04:21
	16:14		17:26			18:30	20:38	38	19:46 (12)	21:43			22:26
19	08:50		07:45			06:30	06:04		19:08 (12)	04:54			04:21
	16:17		17:28			18:32	20:41	39	19:47 (12)	21:45			22:27
20	08:49		15:32 (9)			07:43	06:27		06:02	19:07 (12)	04:52		04:21
	16:19	6	15:38 (9)			17:31	18:35		20:43	40	19:47 (12)	21:47	22:27
21	08:47		15:30 (9)			07:40	06:24		05:59	19:05 (12)	04:50		04:21
	16:21	11	15:41 (9)			17:33	18:37		20:45	42	19:47 (12)	21:49	22:27
22	08:45		15:29 (9)			07:38	06:22		05:56	19:05 (12)	04:48		04:21
	16:23	14	15:43 (9)			17:35	18:39		20:47	42	19:47 (12)	21:51	22:27
23	08:44		15:28 (9)			07:35	06:19		05:54	19:06 (12)	04:46		04:21
	16:25	18	15:46 (9)			17:38	18:41		20:50	42	19:48 (12)	21:53	22:28
24	08:42		15:28 (9)			07:33	06:16		05:51	19:05 (12)	04:45		04:21
	16:27	19	15:47 (9)			17:40	18:43		20:52	42	19:47 (12)	21:55	22:28
25	08:40		15:28 (9)			07:30	06:13		05:49	19:05 (12)	04:43		04:22
	16:30	20	15:48 (9)			17:42	18:46		20:54	42	19:47 (12)	21:57	22:28
26	08:39		15:27 (9)			07:27	06:10		05:46	19:04 (12)	04:41		04:22
	16:32	22	15:49 (9)			17:45	18:48		20:56	42	19:46 (12)	21:59	22:28
27	08:37		15:27 (9)			07:25	06:08		05:44	19:05 (12)	04:40		04:23
	16:34	23	15:50 (9)			17:47	18:50		20:58	41	19:46 (12)	22:00	22:27
28	08:35		15:26 (9)			07:22	06:05		05:41	19:04 (12)	04:38		04:23
	16:37	24	15:50 (9)			17:49	18:52		21:01	41	19:45 (12)	22:02	22:27
29	08:33		15:26 (9)				07:02		05:38	19:05 (12)	04:37		04:24
	16:39	25	15:51 (9)				19:54		21:03	40	19:45 (12)	22:04	22:27
30	08:31		15:27 (9)				06:59		05:36	19:05 (12)	04:35		04:25
	16:41	24	15:51 (9)				19:57		21:05	40	19:45 (12)	22:05	22:26
31	08:29		15:27 (9)				06:56					04:34	
	16:43	25	15:52 (9)				19:59					22:07	
Potential sun hours	227			262		365	429			515			539
Total, worst case	231			175			736			314			
Sun reduction	0.13			0.22			0.46			0.58			
Oper. time red.	0.93			0.93			0.93			0.93			
Wind dir. red.	0.67			0.67			0.63			0.63			
Total reduction	0.08			0.14			0.27			0.34			
Total, real	19			24			198			107			

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)

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Calculated:
17.09.2025 17:50/4.1.287

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		19:31 (12)	06:21	19:20 (12)	07:24	07:33		08:39
	22:26	21:41	7	19:38 (12)	20:23	17 19:37 (12)	18:59	16:38		15:43
2	04:27	05:17		19:27 (12)	06:23	19:25 (12)	07:26	07:36	15:05 (9)	08:41
	22:25	21:39	15	19:42 (12)	20:20	6 19:31 (12)	18:56	16:35	10 15:15 (9)	15:42
3	04:28	05:19		19:25 (12)	06:25		07:29	07:38	15:02 (9)	08:42
	22:25	21:37	19	19:44 (12)	20:18		18:54	16:33	14 15:16 (9)	15:41
4	04:29	05:21		19:23 (12)	06:27		07:31	07:40	15:01 (9)	08:44
	22:24	21:35	23	19:46 (12)	20:15		18:51	16:31	17 15:18 (9)	15:40
5	04:30	05:23		19:21 (12)	06:29		07:33	07:43	15:00 (9)	08:46
	22:23	21:32	27	19:48 (12)	20:12		18:48	16:29	20 15:20 (9)	15:39
6	04:31	05:25		19:20 (12)	06:31		07:35	07:45	14:59 (9)	08:47
	22:23	21:30	29	19:49 (12)	20:09		18:45	16:26	21 15:20 (9)	15:39
7	04:32	05:27		19:19 (12)	06:33		07:37	07:47	14:59 (9)	08:49
	22:22	21:28	31	19:50 (12)	20:07		18:43	16:24	22 15:21 (9)	15:38
8	04:33	05:30		19:18 (12)	06:36		07:39	07:50	14:58 (9)	08:51
	22:21	21:25	33	19:51 (12)	20:04		18:40	16:22	23 15:21 (9)	15:37
9	04:34	05:32		19:17 (12)	06:38		07:42	07:52	14:58 (9)	08:52
	22:20	21:23	35	19:52 (12)	20:01		18:37	16:20	24 15:22 (9)	15:37
10	04:36	05:34		19:16 (12)	06:40		07:44	07:54	14:57 (9)	08:53
	22:19	21:21	36	19:52 (12)	19:58		18:34	16:18	25 15:22 (9)	15:36
11	04:37	05:36		19:15 (12)	06:42		07:46	07:56	14:58 (9)	08:55
	22:17	21:18	38	19:53 (12)	19:55		18:32	16:16	24 15:22 (9)	15:36
12	04:39	05:38		19:14 (12)	06:44		07:48	07:59	14:59 (9)	08:56
	22:16	21:16	39	19:53 (12)	19:53		18:29	16:14	24 15:23 (9)	15:35
13	04:40	05:40		19:14 (12)	06:46		07:50	08:01	14:58 (9)	08:57
	22:15	21:13	40	19:54 (12)	19:50		18:26	16:12	24 15:22 (9)	15:35
14	04:42	05:42		19:12 (12)	06:48		07:53	08:03	14:59 (9)	08:58
	22:14	21:11	41	19:53 (12)	19:47		18:24	16:10	24 15:23 (9)	15:35
15	04:43	05:44		19:12 (12)	06:50		07:55	08:06	14:59 (9)	08:59
	22:12	21:08	41	19:53 (12)	19:44		18:21	16:08	23 15:22 (9)	15:35
16	04:45	05:47		19:11 (12)	06:52		07:57	08:08	15:00 (9)	09:00
	22:11	21:06	42	19:53 (12)	19:41		18:18	16:06	22 15:22 (9)	15:35
17	04:47	05:49		19:11 (12)	06:55		07:59	08:10	15:00 (9)	09:01
	22:09	21:03	42	19:53 (12)	19:39		18:16	16:04	21 15:21 (9)	15:35
18	04:48	05:51		19:11 (12)	06:57		08:02	08:12	15:02 (9)	09:02
	22:08	21:01	42	19:53 (12)	19:36		18:13	16:02	19 15:21 (9)	15:35
19	04:50	05:53		19:10 (12)	06:59		08:04	08:14	15:02 (9)	09:03
	22:06	20:58	43	19:53 (12)	19:33		18:10	16:00	18 15:20 (9)	15:35
20	04:52	05:55		19:10 (12)	07:01		08:06	08:17	15:04 (9)	09:04
	22:04	20:55	42	19:52 (12)	19:30		18:08	15:59	14 15:18 (9)	15:35
21	04:54	05:57		19:10 (12)	07:03		08:08	08:19	15:05 (9)	09:04
	22:03	20:53	42	19:52 (12)	19:27		18:05	15:57	11 15:16 (9)	15:36
22	04:55	05:59		19:10 (12)	07:05		08:11	08:21	15:08 (9)	09:05
	22:01	20:50	41	19:51 (12)	19:24		18:03	15:55	7 15:15 (9)	15:36
23	04:57	06:02		19:10 (12)	07:07		08:13	08:23		09:05
	21:59	20:48	41	19:51 (12)	19:22		18:00	15:54		15:37
24	04:59	06:04		19:11 (12)	07:09		08:15	08:25		09:06
	21:57	20:45	39	19:50 (12)	19:19		17:57	15:52		15:37
25	05:01	06:06		19:11 (12)	07:11		07:17	08:27		09:06
	21:55	20:42	38	19:49 (12)	19:16		16:55	15:51		15:38
26	05:03	06:08		19:11 (12)	07:14		07:20	08:29		09:06
	21:54	20:40	37	19:48 (12)	19:13		16:52	15:49		15:39
27	05:05	06:10		19:12 (12)	07:16		07:22	08:31		09:07
	21:52	20:37	35	19:47 (12)	19:10		16:50	15:48		15:40
28	05:07	06:12		19:13 (12)	07:18		07:24	08:33		09:07
	21:50	20:34	32	19:45 (12)	19:08		16:47	15:47		15:41
29	05:09	06:14		19:14 (12)	07:20		07:27	08:35		09:07
	21:48	20:31	29	19:43 (12)	19:05		16:45	15:45		15:42
30	05:11	06:16		19:15 (12)	07:22		07:29	08:37		09:07
	21:45	20:29	26	19:41 (12)	19:02		16:43	15:44		15:43
31	05:13	06:19		19:17 (12)			07:31			09:07
	21:43	20:26	22	19:39 (12)			16:40			15:44
Potential sun hours	538	474			386		321	241		207
Total, worst case			1047			23			407	
Sun reduction			0.55			0.43			0.15	
Oper. time red.			0.93			0.93			0.93	
Wind dir. red.			0.63			0.63			0.67	
Total reduction			0.32			0.25			0.10	
Total, real			334			6			39	

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)

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Enviroprojekts, SIA
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	07:40	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
	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
	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	05:02	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	05:46	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	04:21	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	04:54	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	20:47	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	15:40
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:
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
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	16:37	17:50	18:52	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
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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
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	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
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	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)

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Enviroprojekts, SIA
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:37
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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
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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
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	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
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	16:23	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
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	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
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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
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	16:03	17:12	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
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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) 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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	20:59 (2) 04:26	21:03 (2) 05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09 23	21:22 (2) 22:26 27	21:30 (2) 21:41	20:23	18:59	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31	04:32	20:59 (2) 04:27	21:03 (2) 05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10 24	21:23 (2) 22:25 27	21:30 (2) 21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	20:59 (2) 04:28	21:04 (2) 05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:06	21:12	22:12 24	21:23 (2) 22:25 26	21:30 (2) 21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:46	05:27	04:30	20:59 (2) 04:29	21:04 (2) 05:22	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13 25	21:24 (2) 22:24 26	21:30 (2) 21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	20:59 (2) 04:30	21:04 (2) 05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14 25	21:24 (2) 22:23 26	21:30 (2) 21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	20:58 (2) 04:31	21:05 (2) 05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:16 26	21:24 (2) 22:23 25	21:30 (2) 21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	20:58 (2) 04:32	21:05 (2) 05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17 26	21:24 (2) 22:22 25	21:30 (2) 21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	20:59 (2) 04:34	21:05 (2) 05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18 26	21:25 (2) 22:21 25	21:30 (2) 21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	20:58 (2) 04:35	21:05 (2) 05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19 27	21:25 (2) 22:20 25	21:30 (2) 21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	20:59 (2) 04:36	21:07 (2) 05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20 27	21:26 (2) 22:19 24	21:31 (2) 21:21	19:58	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	20:58 (2) 04:38	21:07 (2) 05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21 27	21:25 (2) 22:17 23	21:30 (2) 21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	20:59 (2) 04:39	21:07 (2) 05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22 27	21:26 (2) 22:16 23	21:30 (2) 21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	20:59 (2) 04:41	21:07 (2) 05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23 28	21:27 (2) 22:15 22	21:29 (2) 21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	20:59 (2) 04:42	21:09 (2) 05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24 27	21:26 (2) 22:14 20	21:29 (2) 21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	20:59 (2) 04:44	21:09 (2) 05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24 28	21:27 (2) 22:12 19	21:28 (2) 21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	21:00 (2) 04:45	21:10 (2) 05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25 27	21:27 (2) 22:11 18	21:28 (2) 21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	21:00 (2) 04:47	21:11 (2) 05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26 27	21:27 (2) 22:09 16	21:27 (2) 21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	21:00 (2) 04:49	21:13 (2) 05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26 28	21:28 (2) 22:08 13	21:26 (2) 21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	21:00 (2) 04:50	21:14 (2) 05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:33	20:41	21:45	22:27 28	21:28 (2) 22:06 10	21:24 (2) 20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	21:00 (2) 04:52	21:17 (2) 05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27 28	21:28 (2) 22:04 5	21:22 (2) 20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	21:00 (2) 04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27 28	21:28 (2) 22:03	20:53	19:28	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	21:00 (2) 04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27 28	21:28 (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	21:01 (2) 04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:28 28	21:29 (2) 21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45 21:05 (2)	04:22	21:01 (2) 05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55 8 21:13 (2)	22:28 28	21:29 (2) 21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43 21:04 (2)	04:22	21:02 (2) 05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57 12 21:16 (2)	22:28 27	21:29 (2) 21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:27	06:11	05:46	04:42 21:03 (2)	04:23	21:02 (2) 05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59 14 21:17 (2)	22:28 27	21:29 (2) 21:54	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40 21:01 (2)	04:23	21:02 (2) 05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00 17 21:18 (2)	22:27 28	21:30 (2) 21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39 21:01 (2)	04:24	21:02 (2) 05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02 18 21:19 (2)	22:27 27	21:29 (2) 21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37 21:00 (2)	04:25	21:03 (2) 05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04 20 21:20 (2)	22:27 27	21:30 (2) 21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36 21:00 (2)	04:25	21:03 (2) 05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05 21 21:21 (2)	22:26 27	21:30 (2) 21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34 21:00 (2)		05:13	06:19		07:31		09:07
	16:44		19:59		22:07 22 21:22 (2)		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					132	803	425					
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					45	250	140					

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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
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	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) 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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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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
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	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
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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
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	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
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29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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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
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	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:35	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
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	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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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	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	21:08	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	04:27	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	17:56	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	04:29	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	08:17	07:06	06:40	05:22	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	18:46	16:26	15:39
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	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
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	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
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	16:03	17:12	18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:35
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16	08:55	07:53	06:39	06:12	05:00	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
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	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	04:56	04:21	04:48	05:51	06:57	08:02	08:12	09:03
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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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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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
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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
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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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
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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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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	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
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	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	16:13	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	15:35
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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
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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
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29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:36	09:07
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	January	February	March	April	May	June	July	August	September	October	November	December
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	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
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	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
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	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
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	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)

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+37129262684
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
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	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
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	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:
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Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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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
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	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
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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
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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
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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
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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
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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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
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	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
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	16:10	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
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	16:14	17:26	18:30	20:38	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
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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
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	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) 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)

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Calculated:
17.09.2025 17:50/4.1.287

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
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	16:08	17:19	18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	15:35
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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
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	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
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	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
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	16:27	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	15:37
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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)

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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

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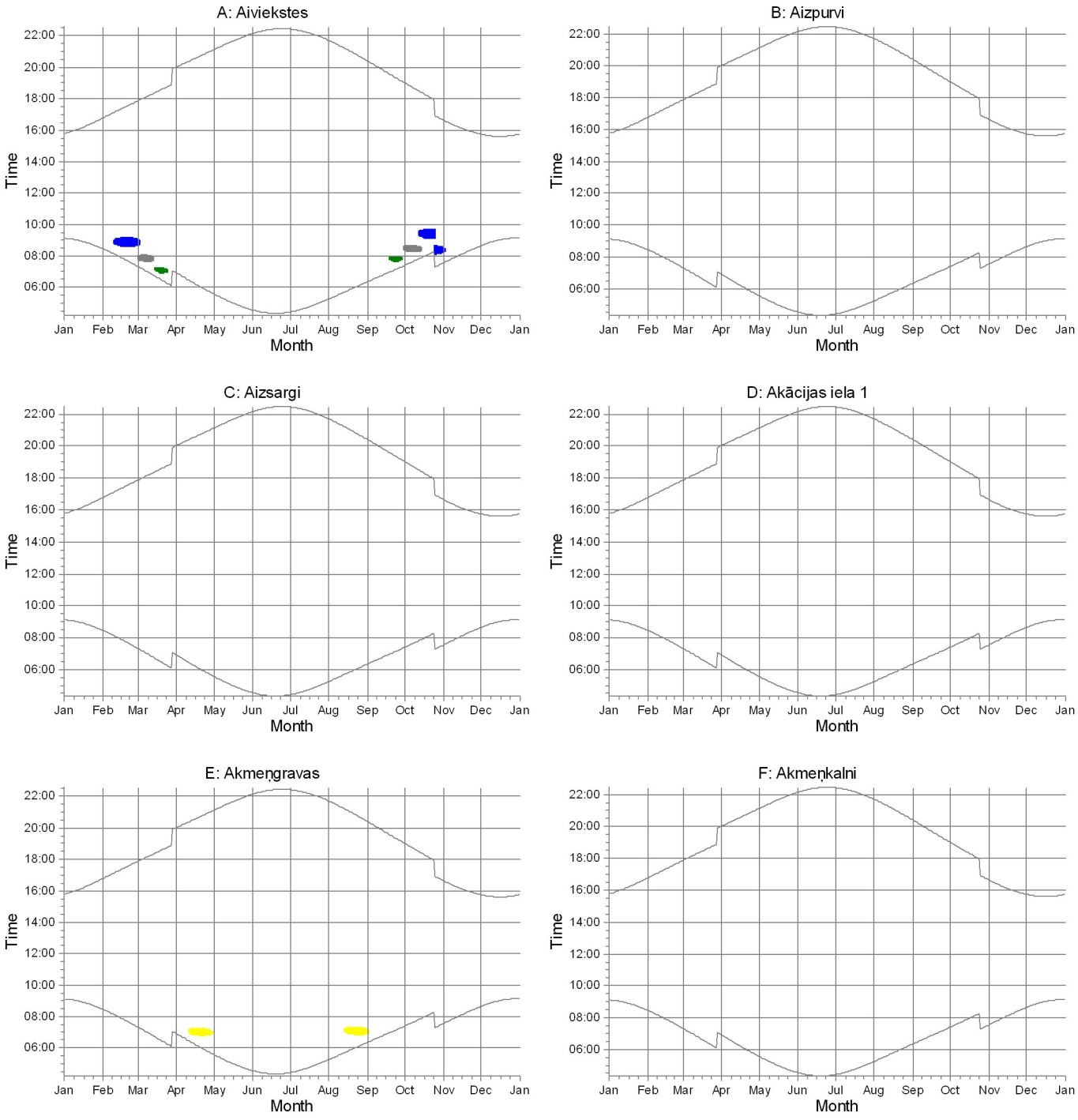
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas" 2: Z1 3: Z2 4: Z3

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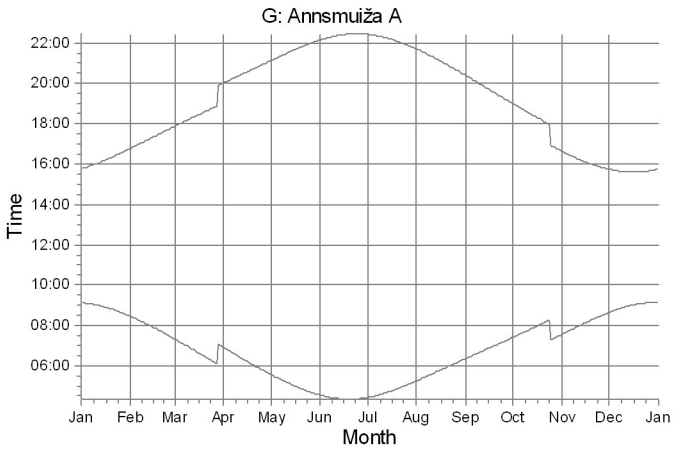
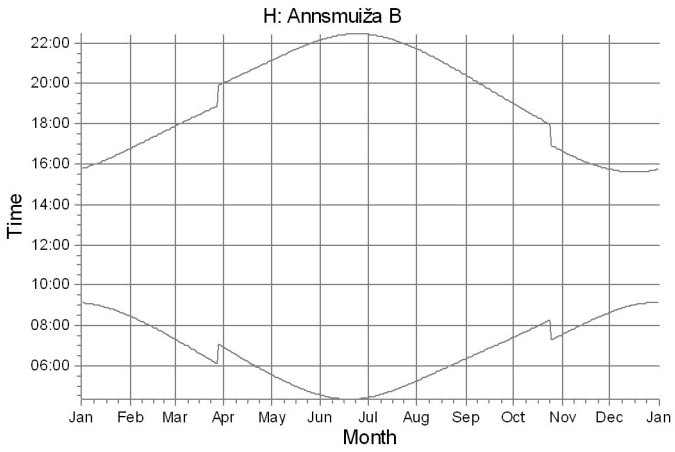
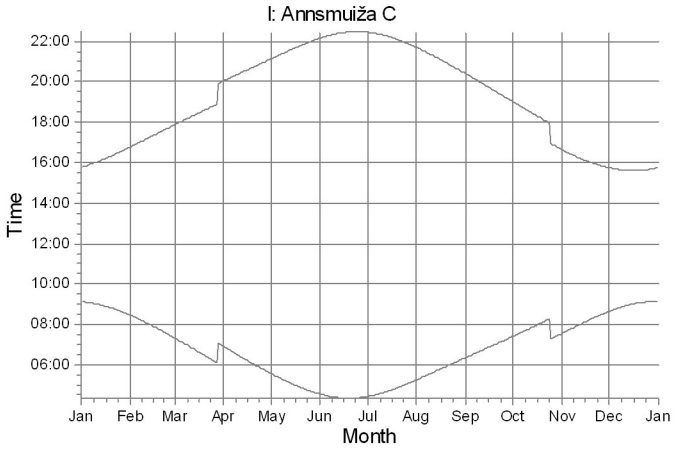
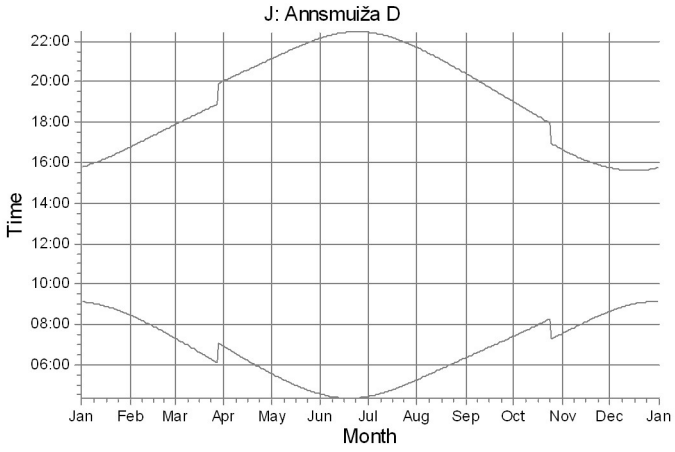
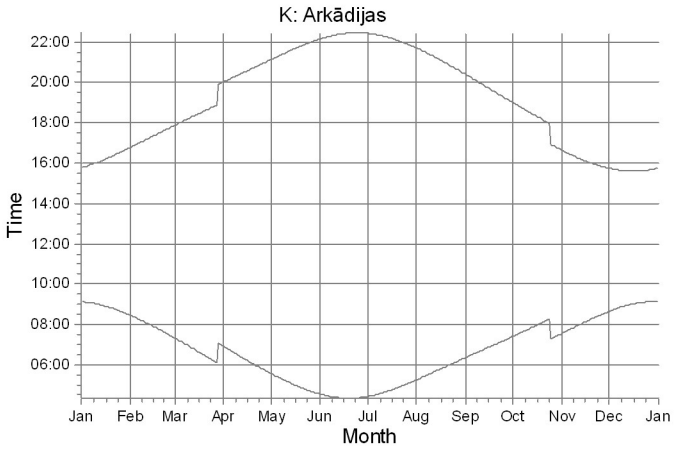
SHADOW - Calendar, graphical

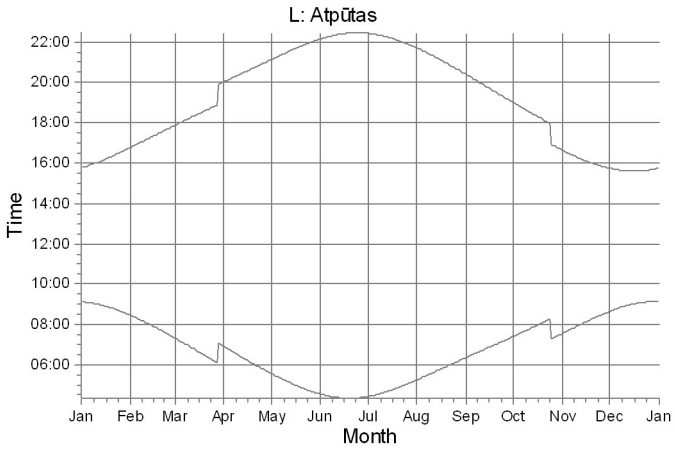












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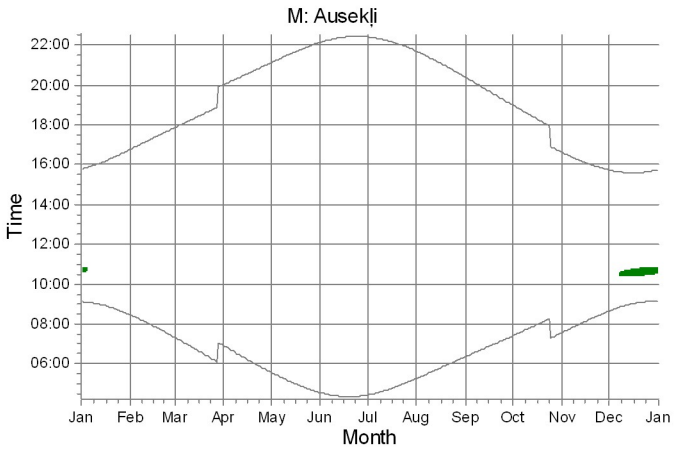
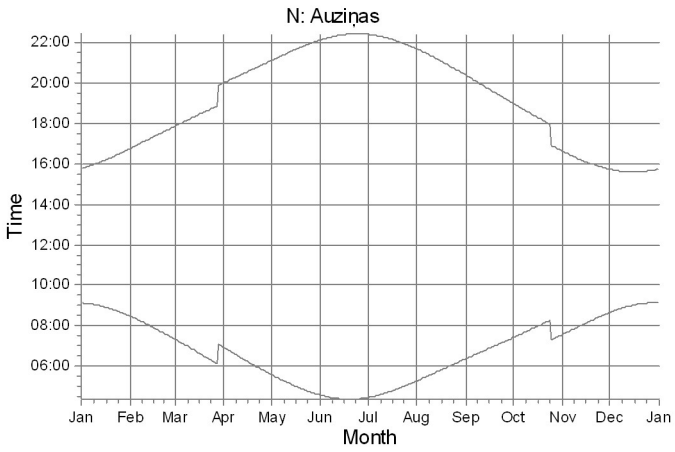
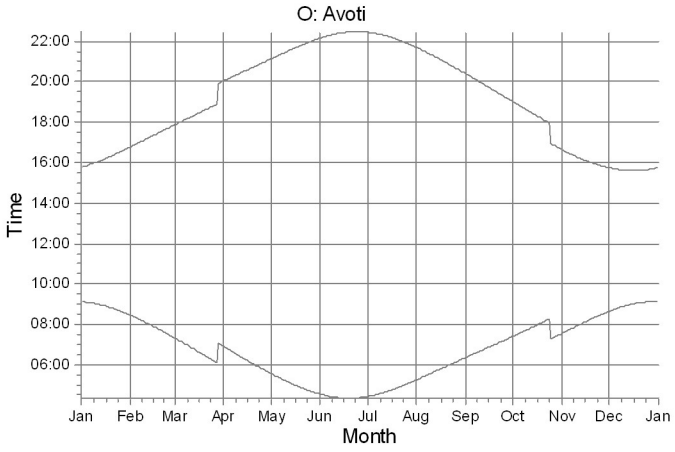
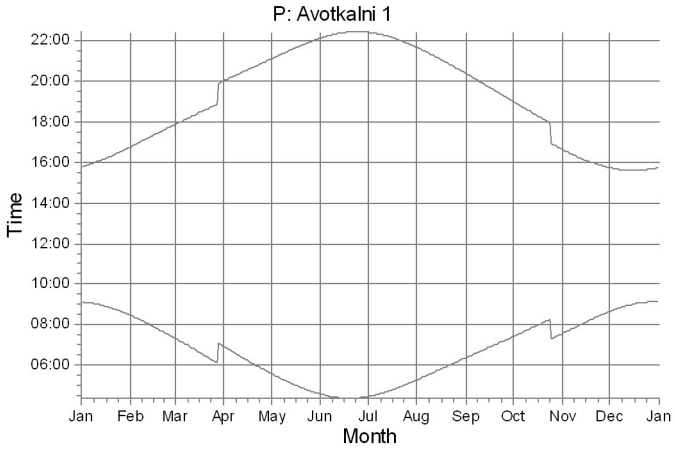
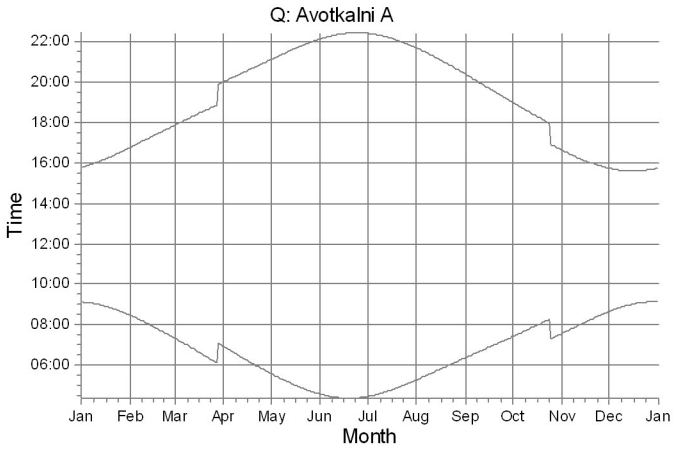
SHADOW - Calendar, graphical

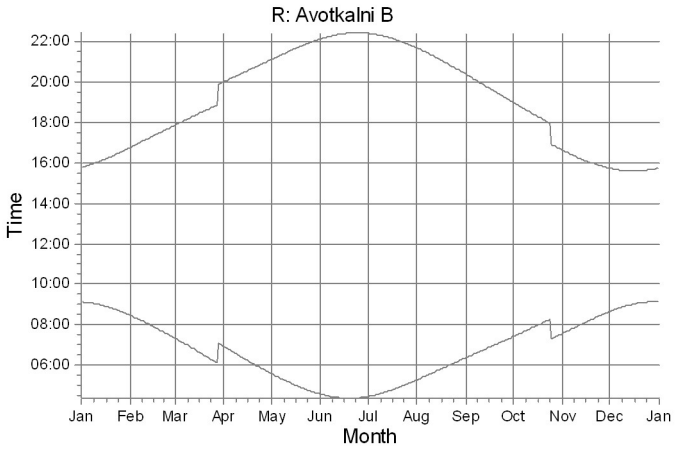












WTGs

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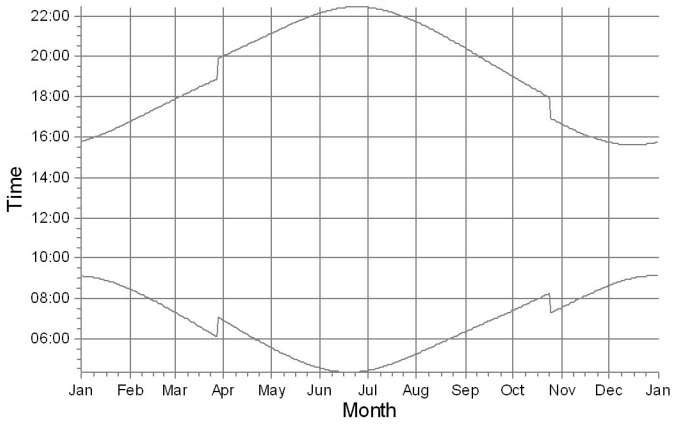
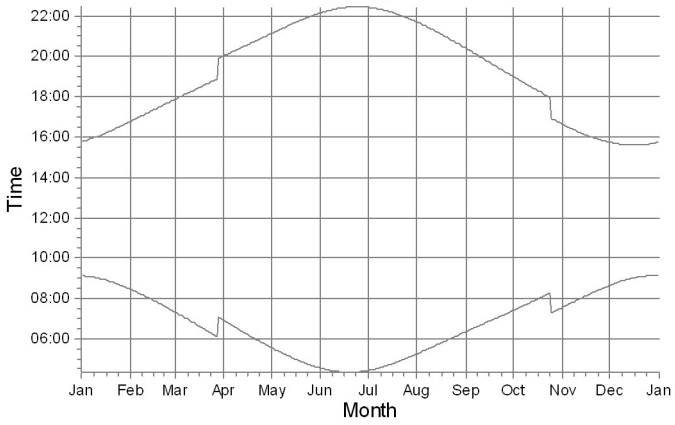
SHADOW - Calendar, graphical

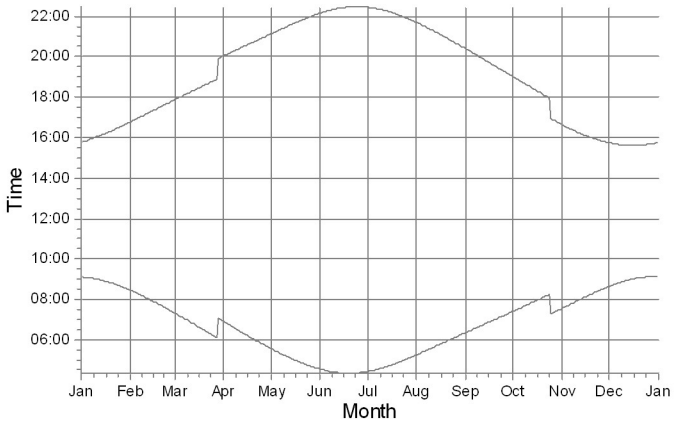
S: Ādambergi



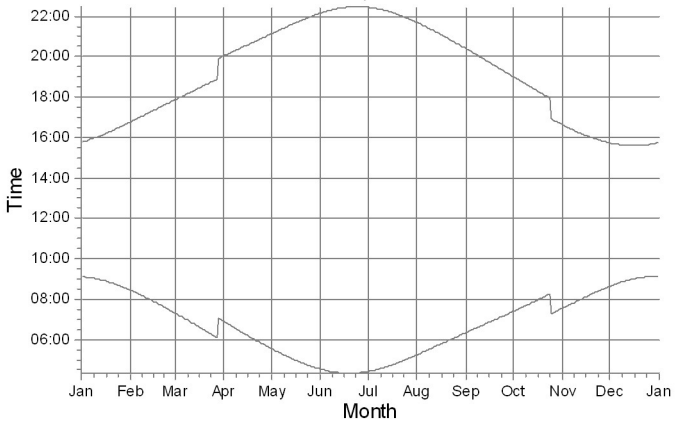
T: Bezdelīgas Ligzda



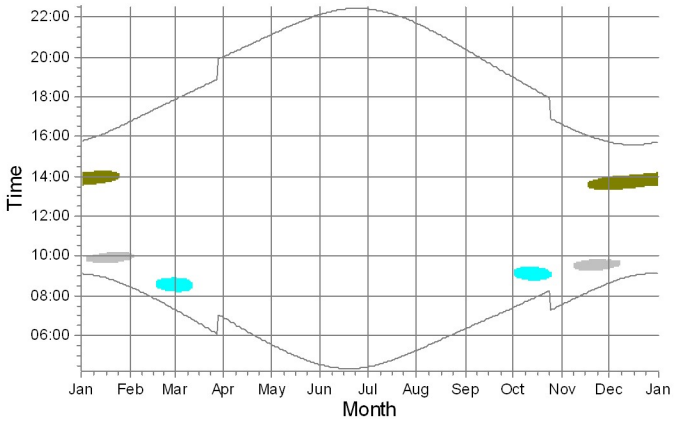
U: Birznieki



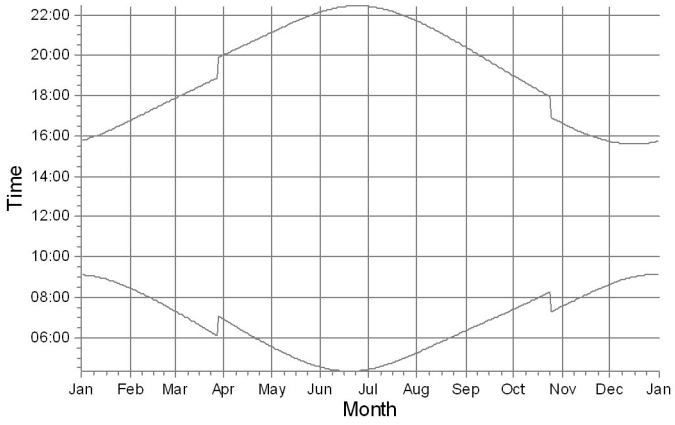
V: Birztaliņas



W: Birzuļi



X: Brūveļi



WTGs

10: Z12 12: Z16 13: Z17

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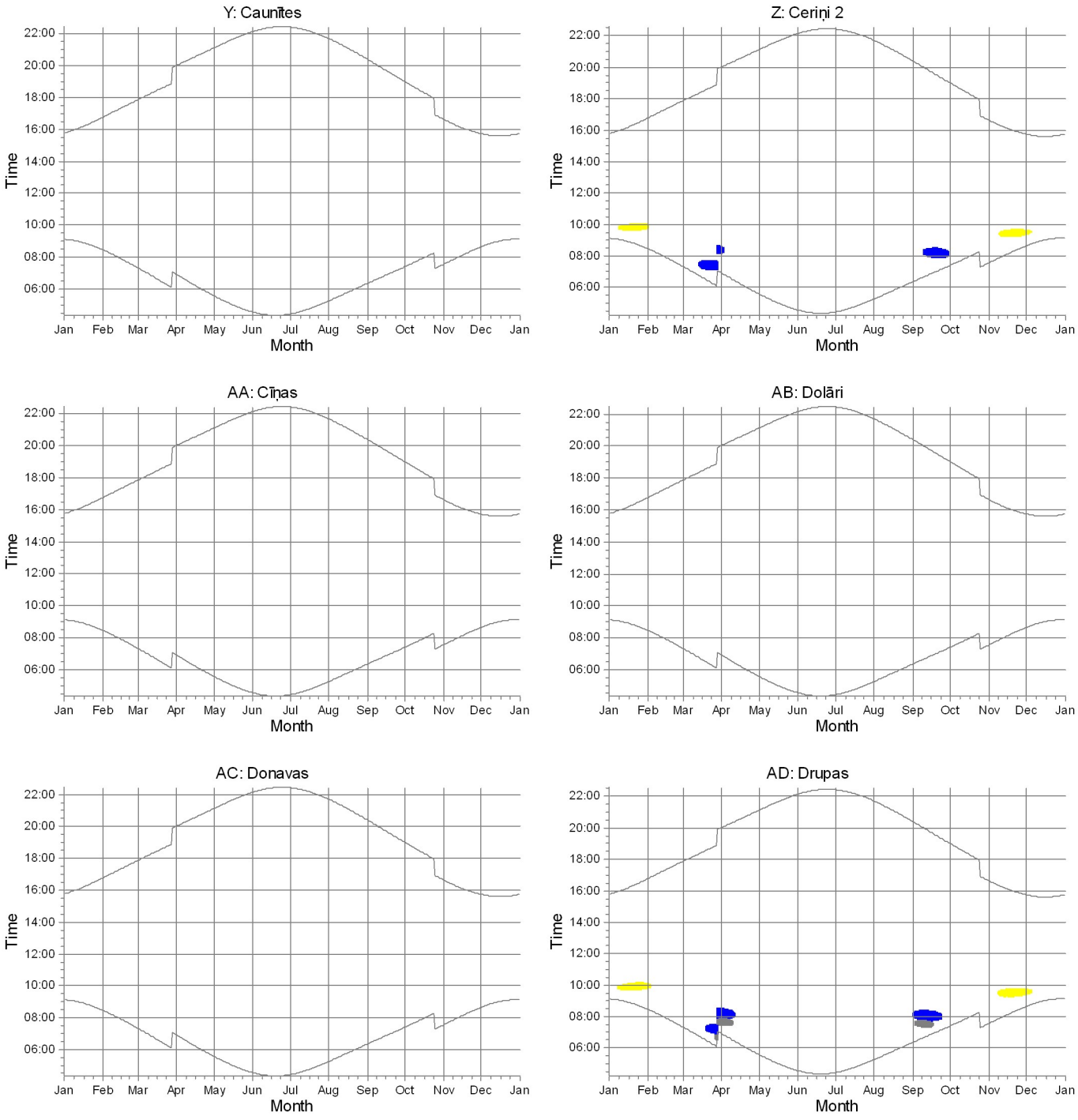
SHADOW - Calendar, graphical



WTGs

2: Z1 3: Z2 4: Z3

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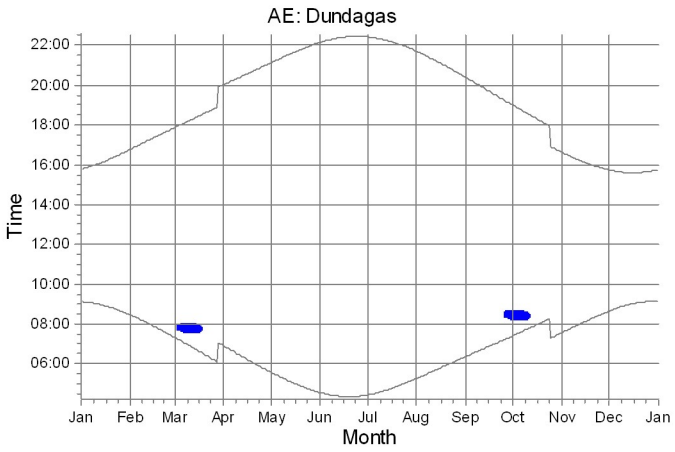
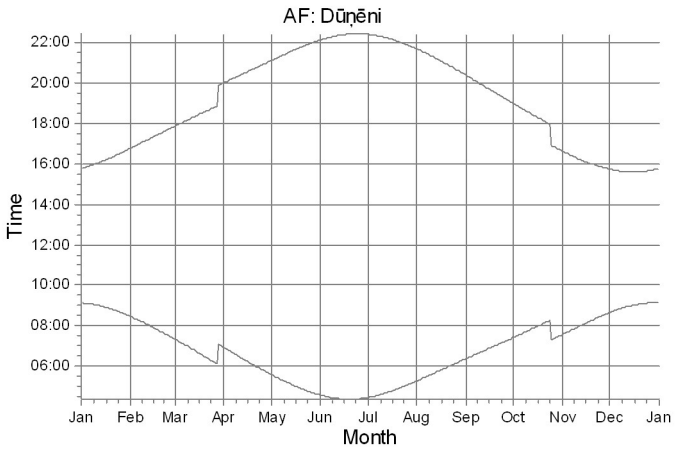
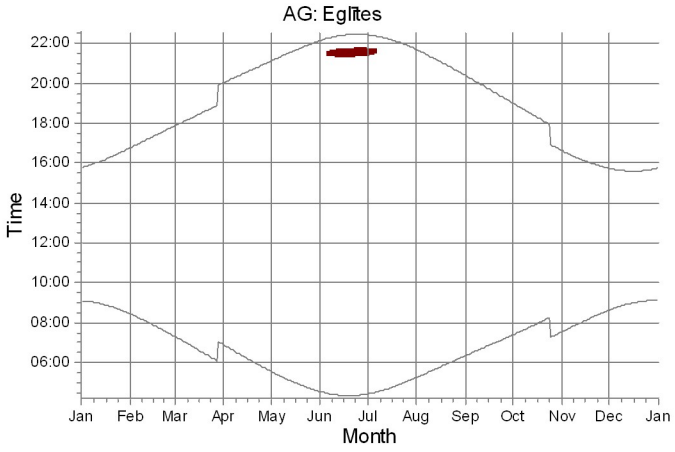
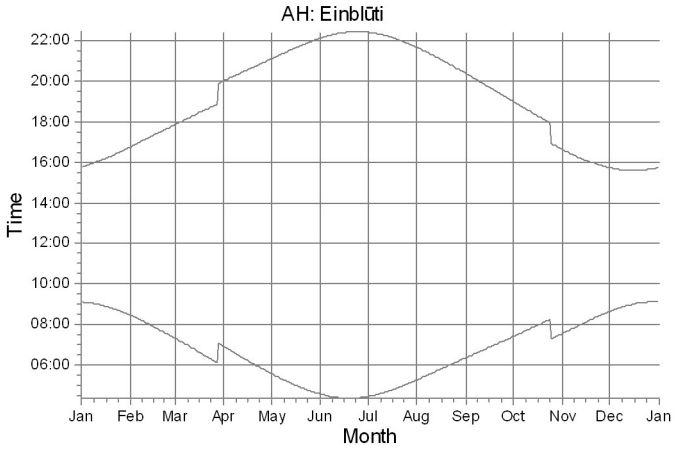
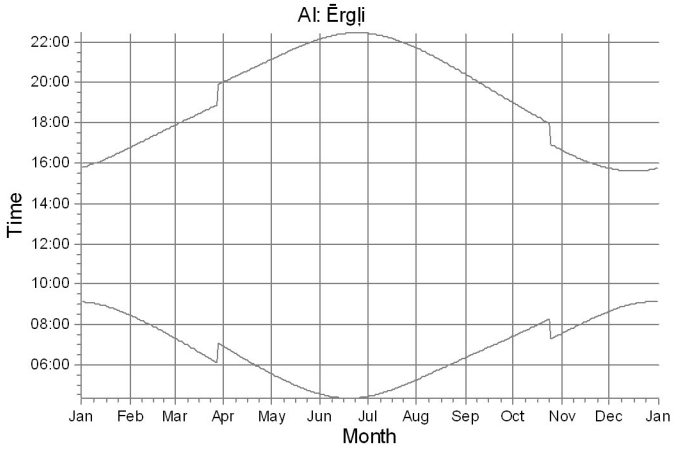
SHADOW - Calendar, graphical

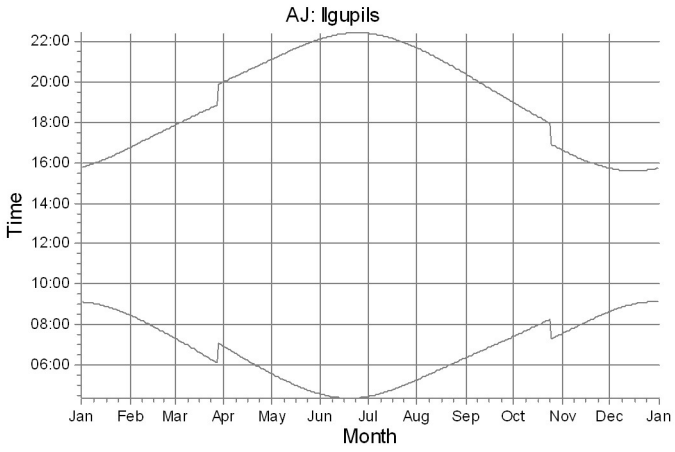












WTGs

3: Z2

8: Z9

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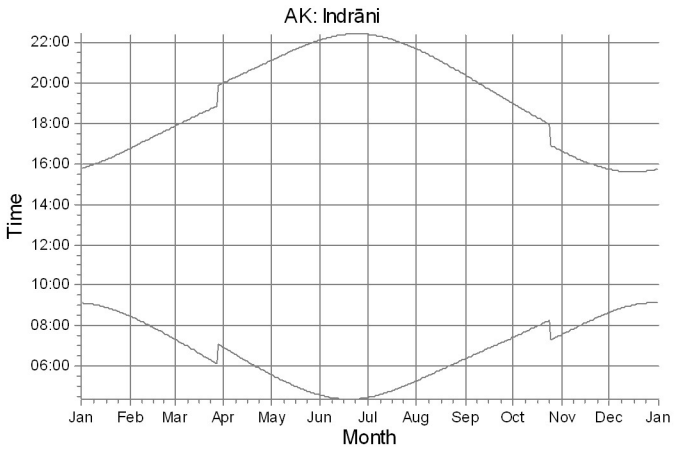
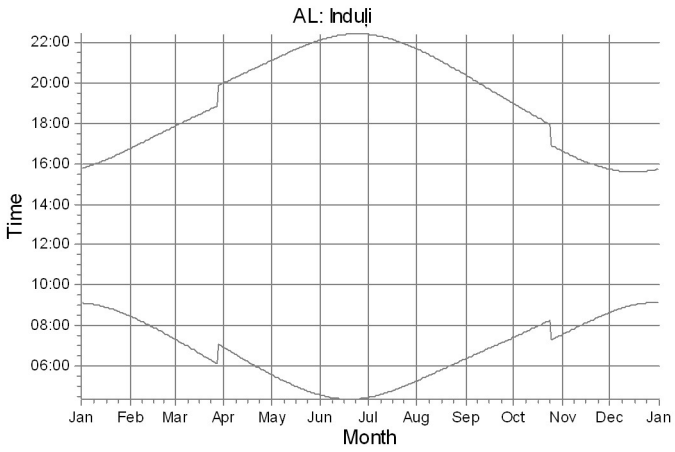
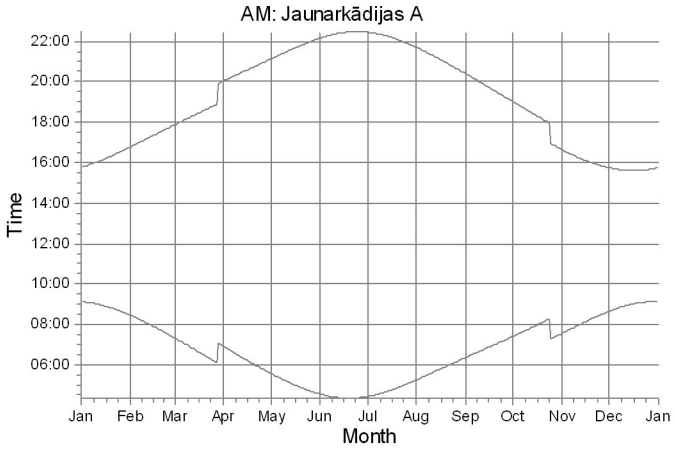
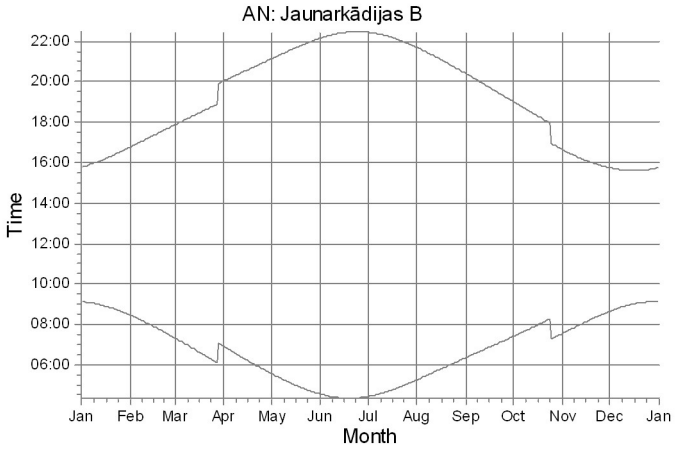
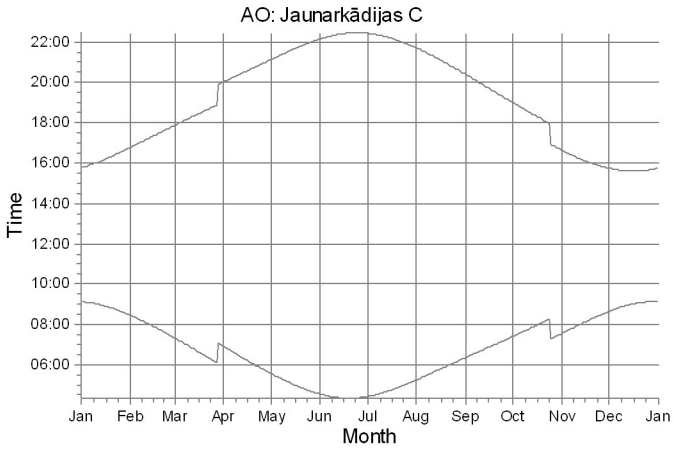
SHADOW - Calendar, graphical

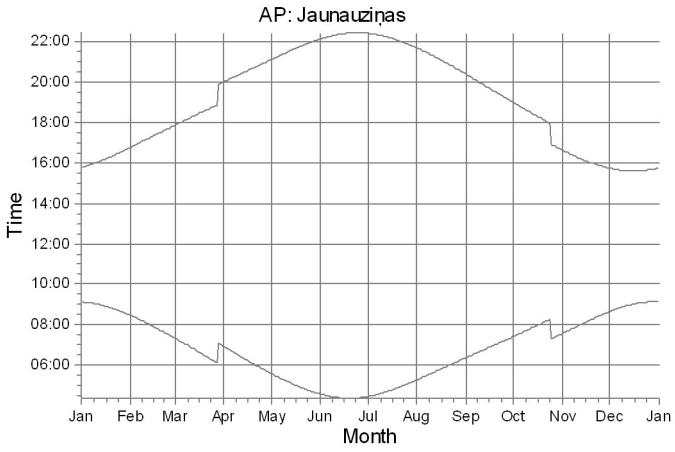












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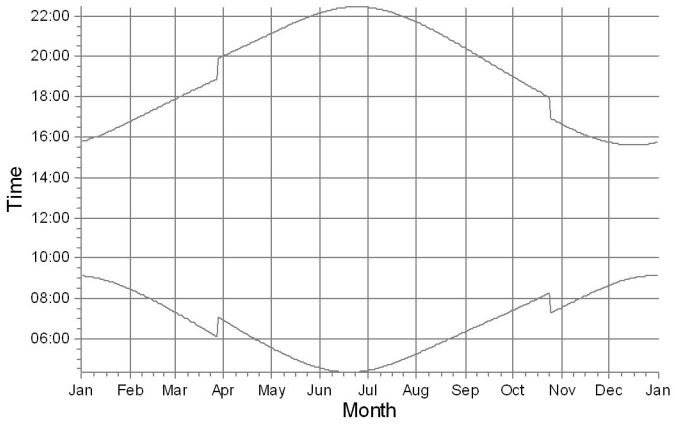
SHADOW - Calendar, graphical

AQ: Jaundālderi



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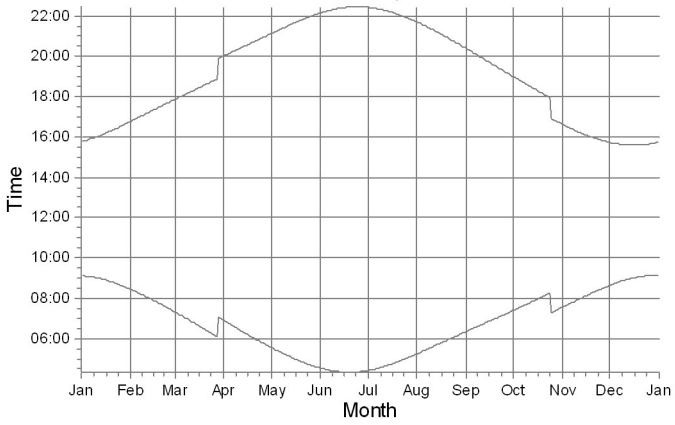

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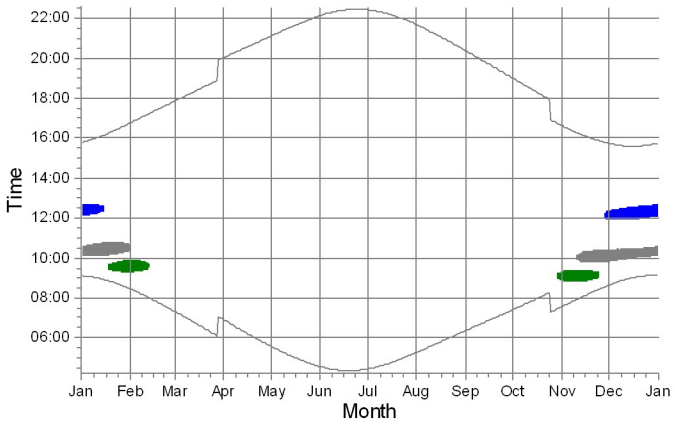

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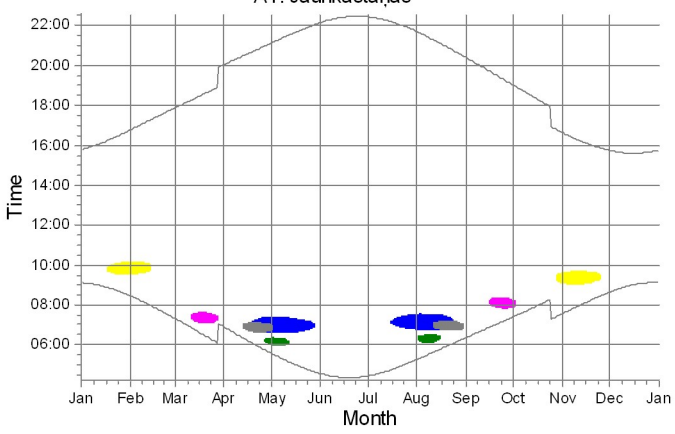
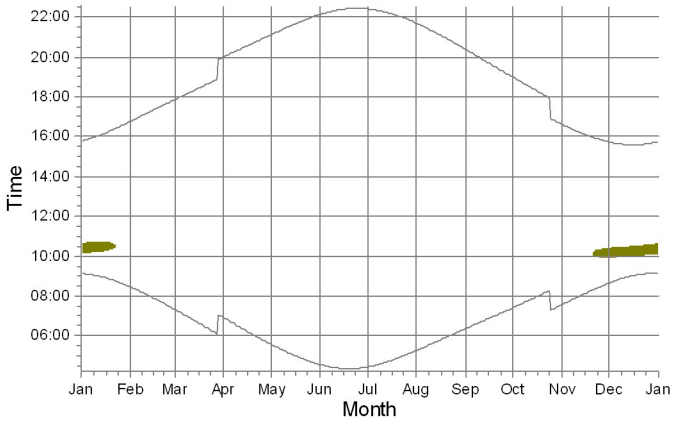


AU: Jaunoļķi



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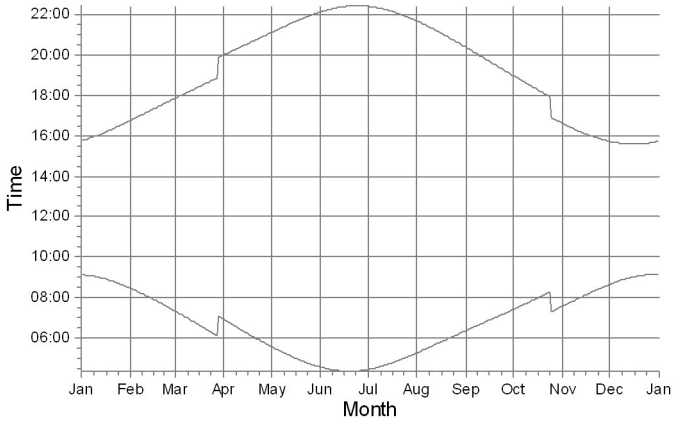

WTGs

1: VES "Senlejas"	3: Z2	5: Z4
2: Z1	4: Z3	10: Z12

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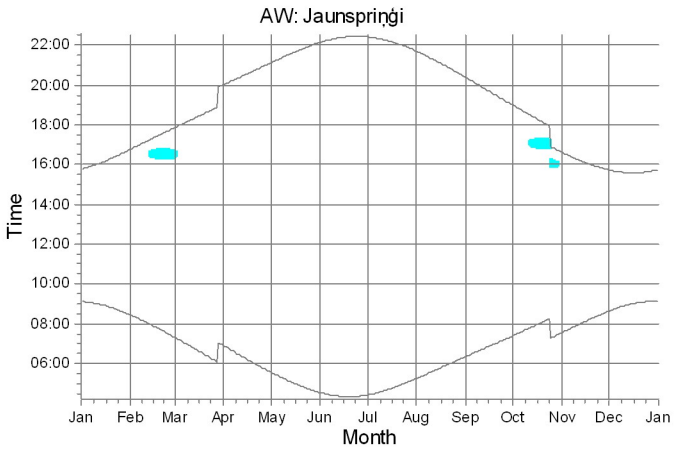
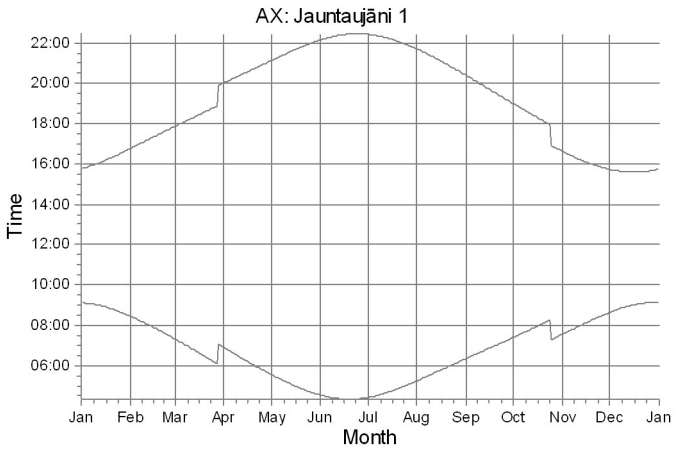
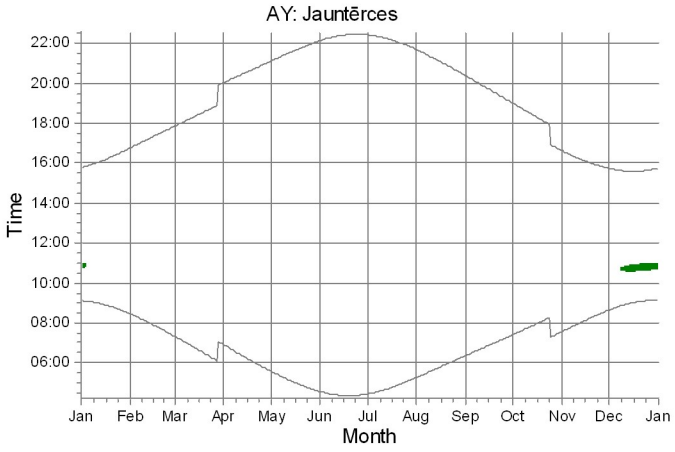
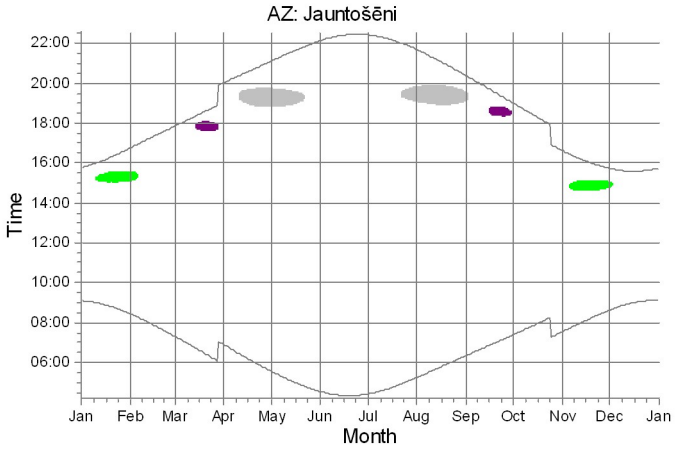
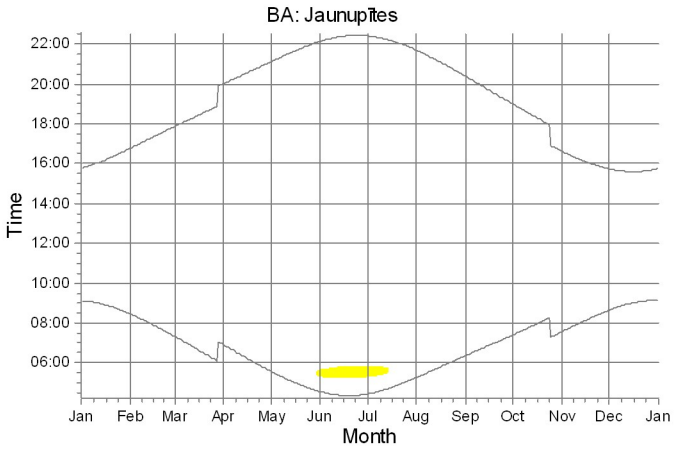
SHADOW - Calendar, graphical

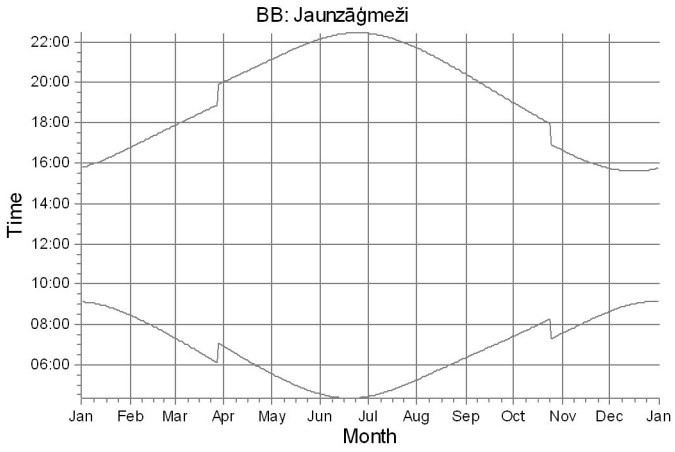












WTGs

	1: VES "Senlejas"		9: Z10		12: Z16
	2: Z1		11: Z13		13: Z17

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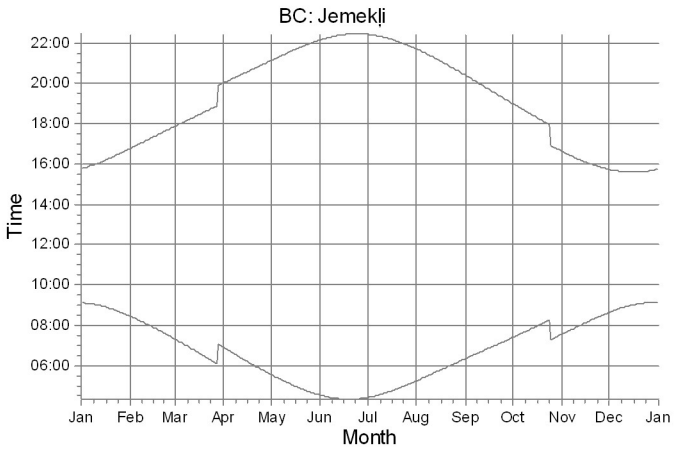
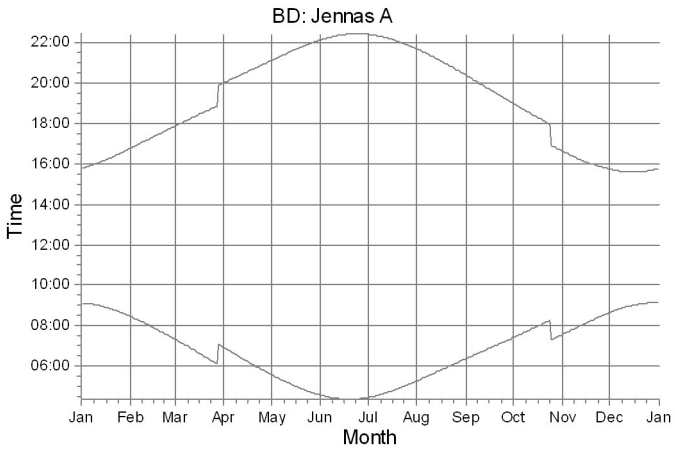
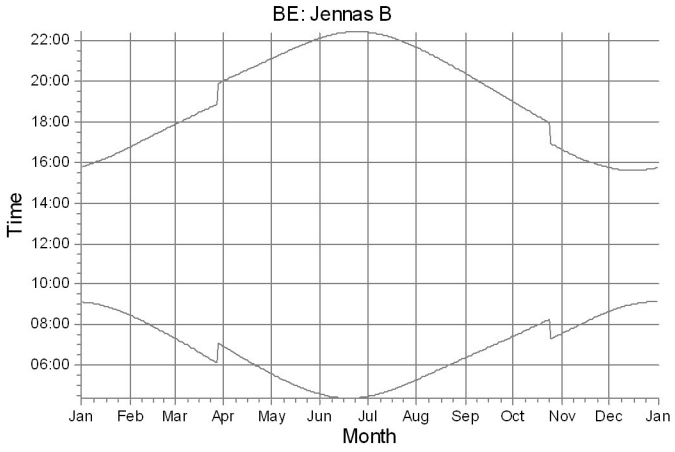
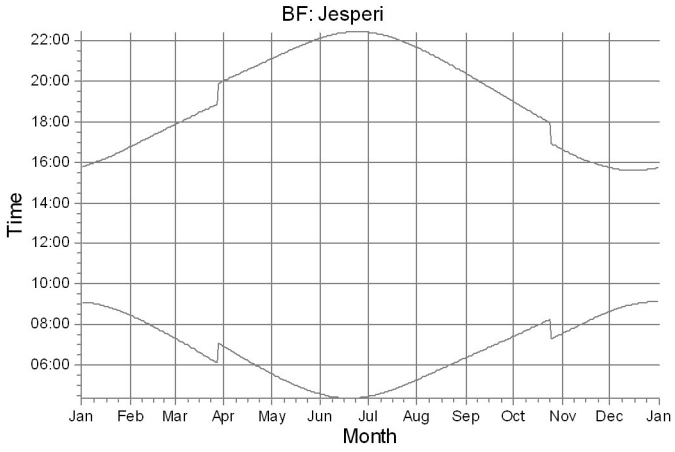
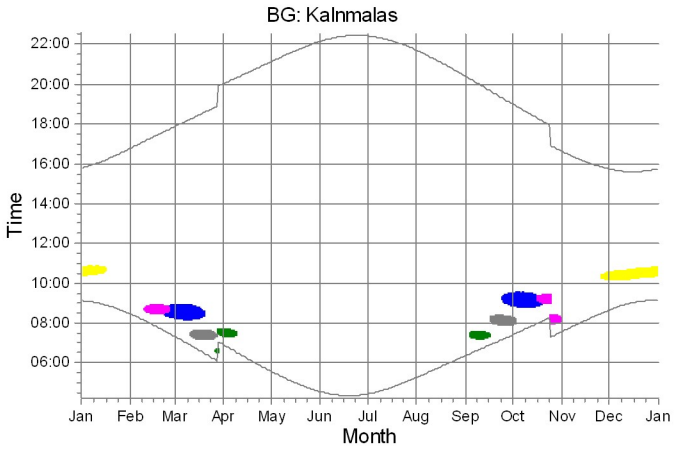
SHADOW - Calendar, graphical

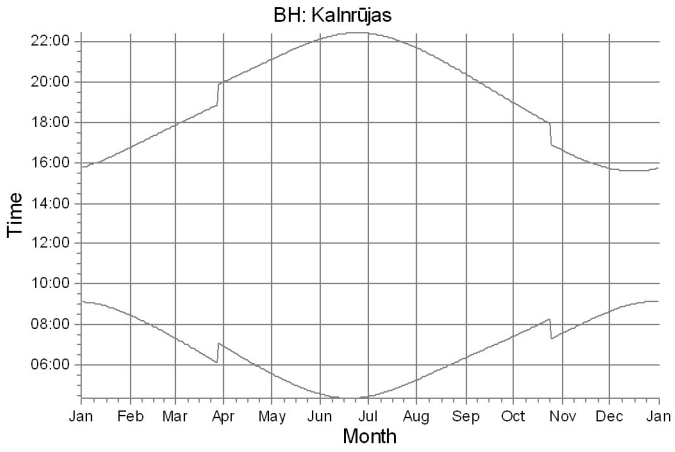












WTGs

1: VES "Senlejas"
2: Z1
3: Z2
4: Z3
5: Z4

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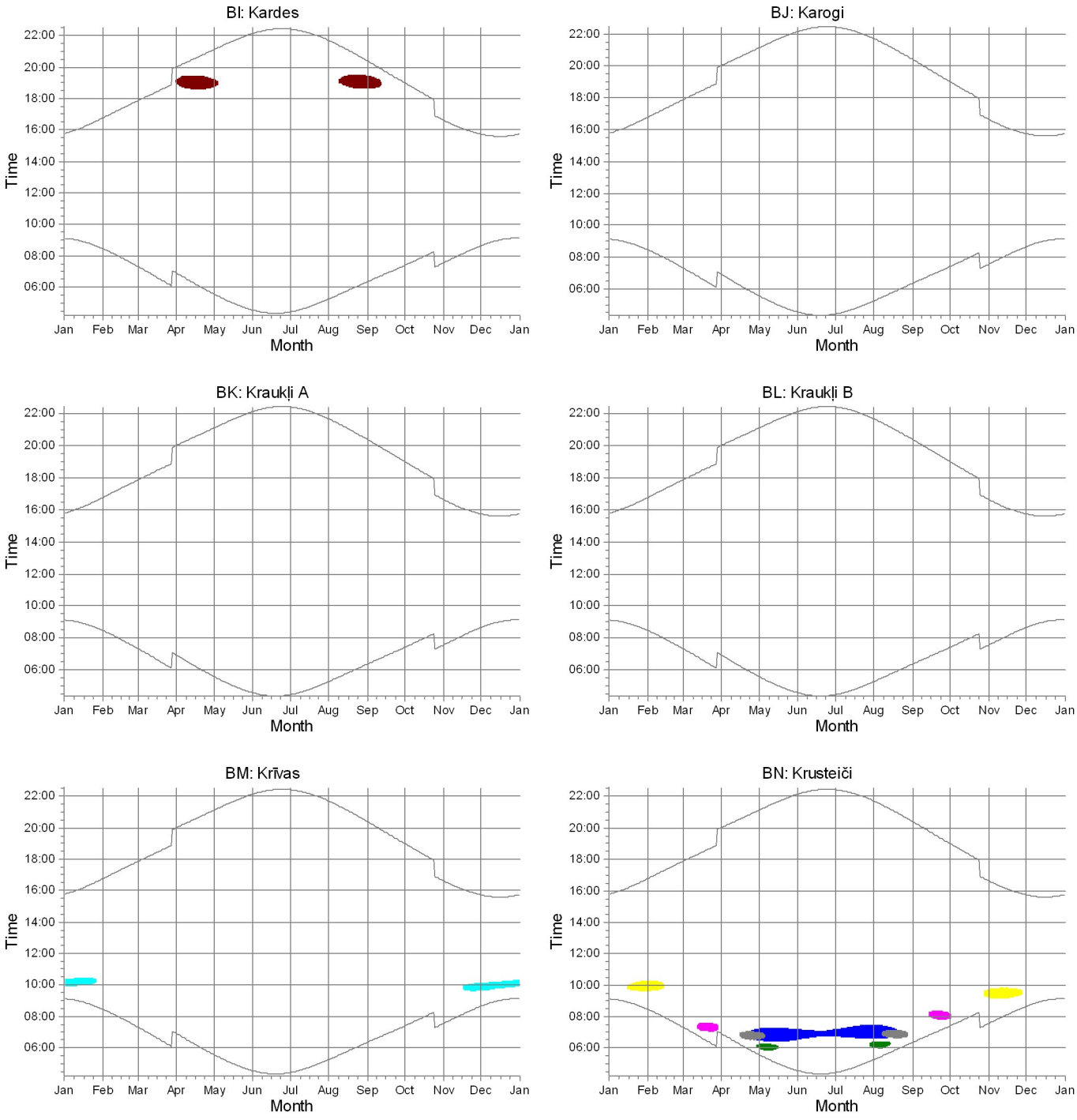
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	3: Z2	5: Z4	13: Z17
2: Z1	4: Z3	8: Z9	

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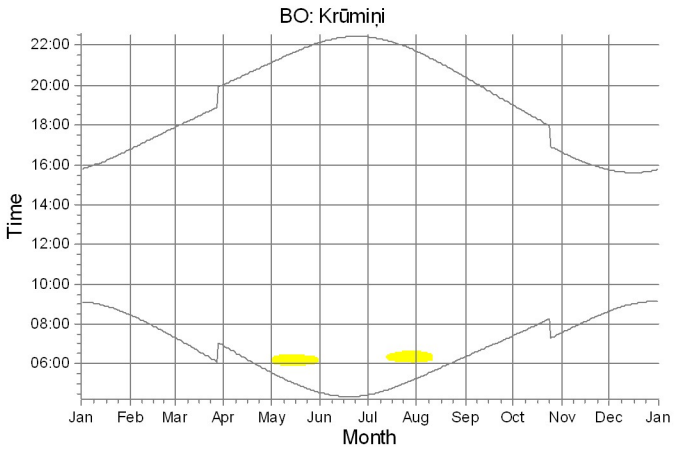
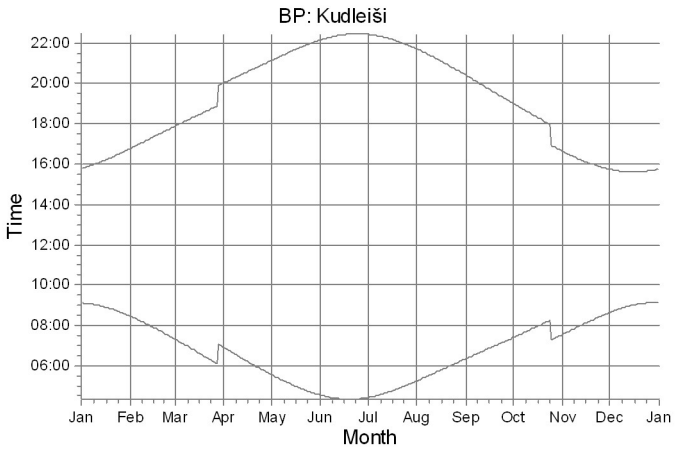
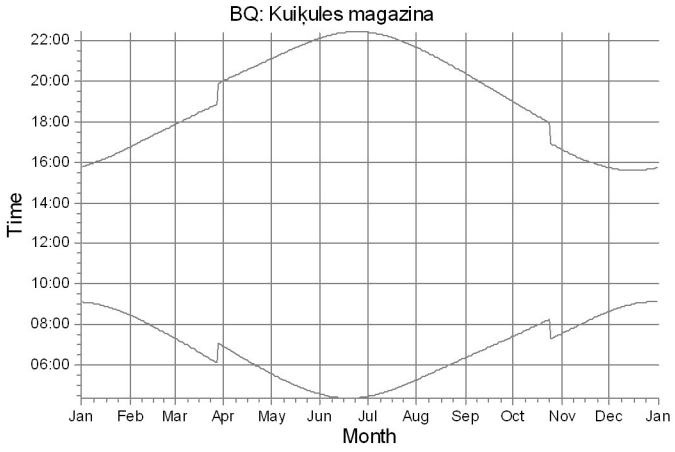
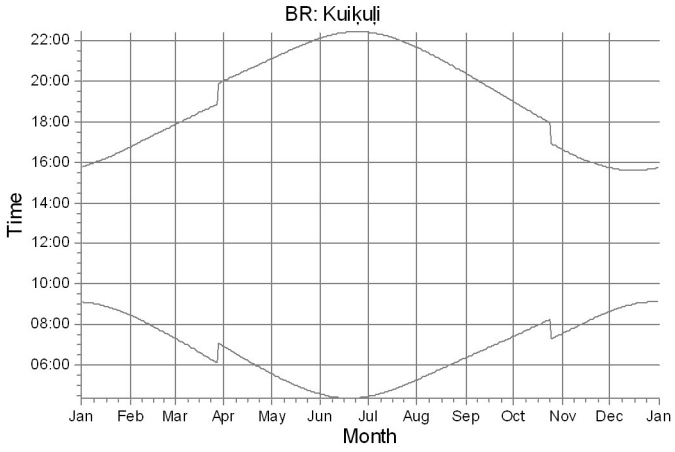
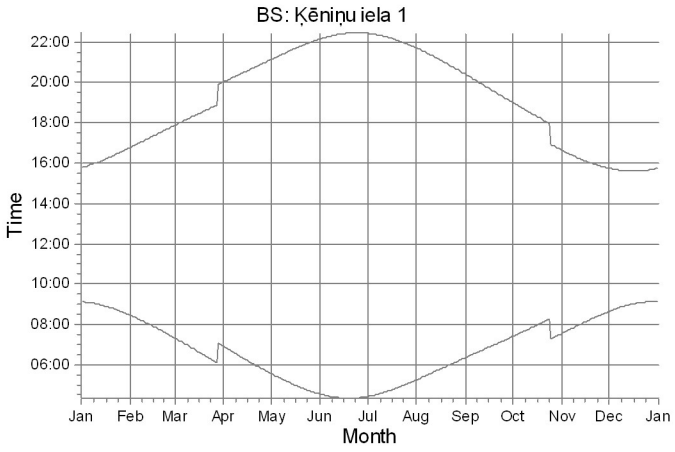
SHADOW - Calendar, graphical

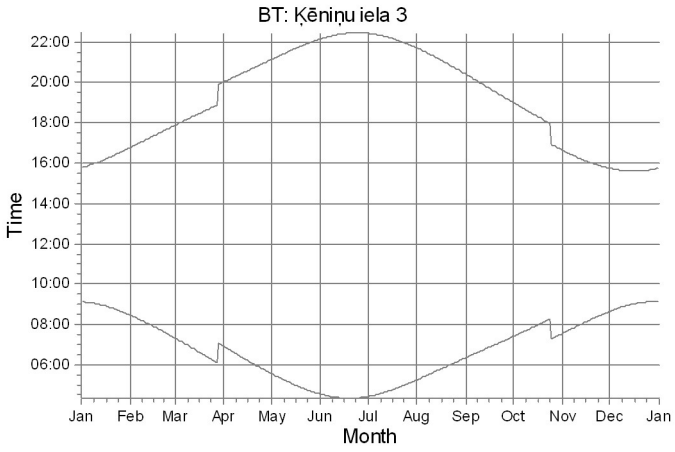












WTGs

2: Z1

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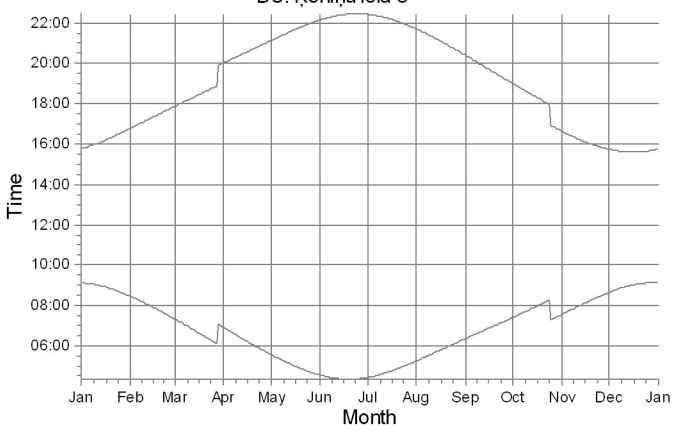
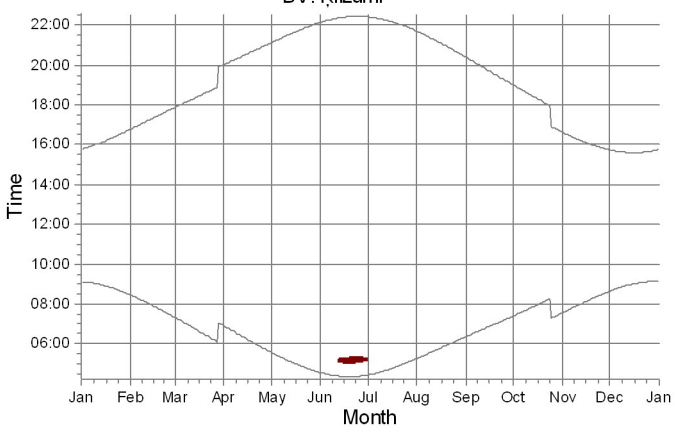
SHADOW - Calendar, graphical

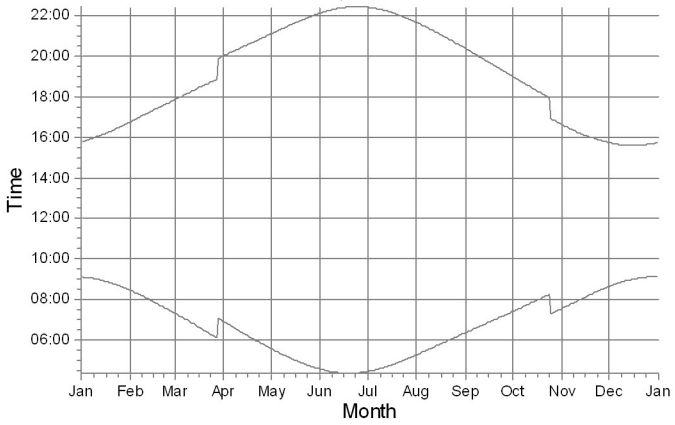
BU: Ķēniņu iela 5



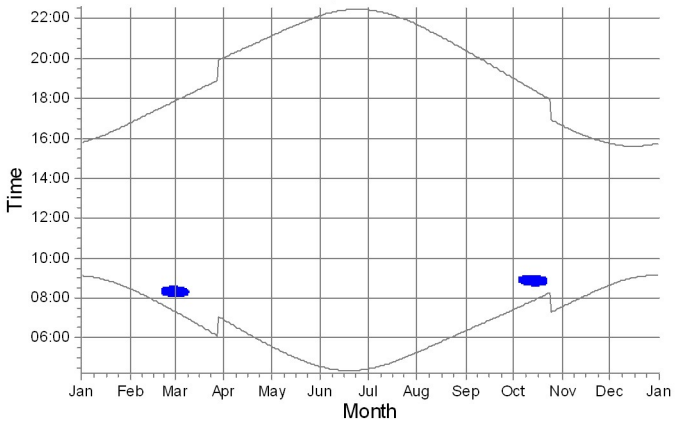
BV: Ķilzumi



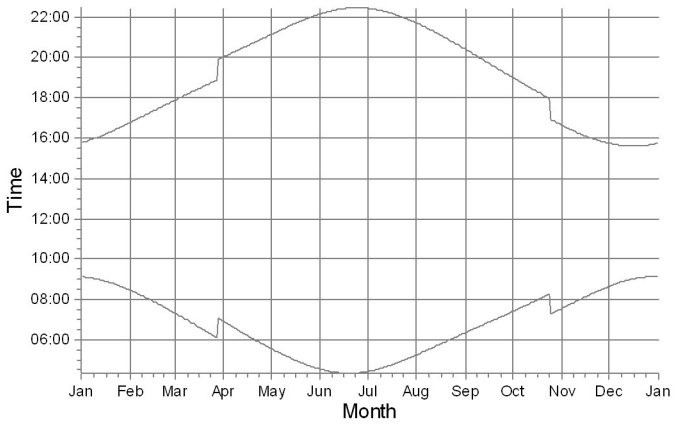
BW: Ķirši



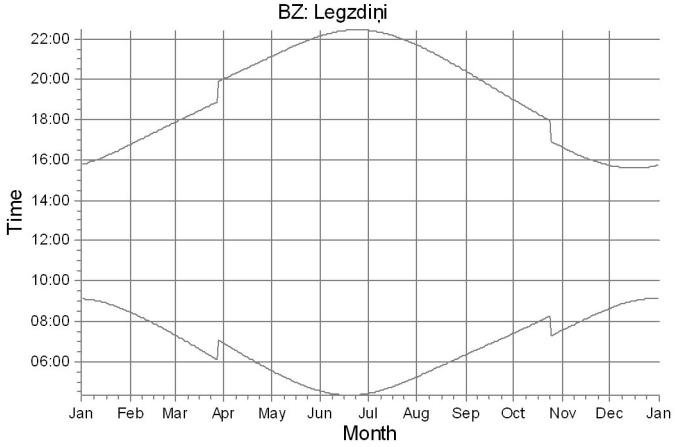
BX: Lapskalni



BY: Lazdas



BZ: Legzdiņi



WTGs

3: Z2

8: Z9

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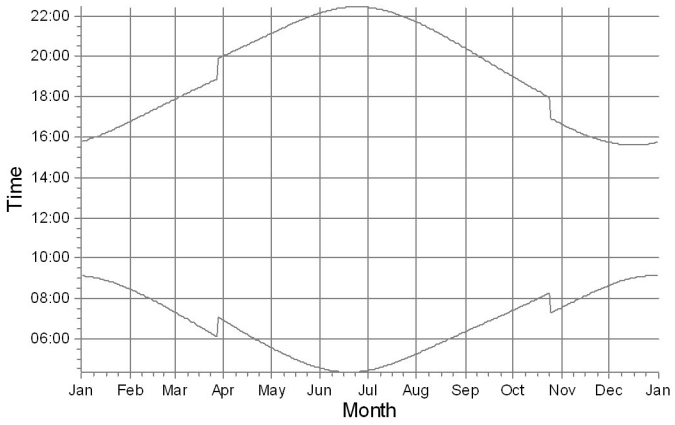
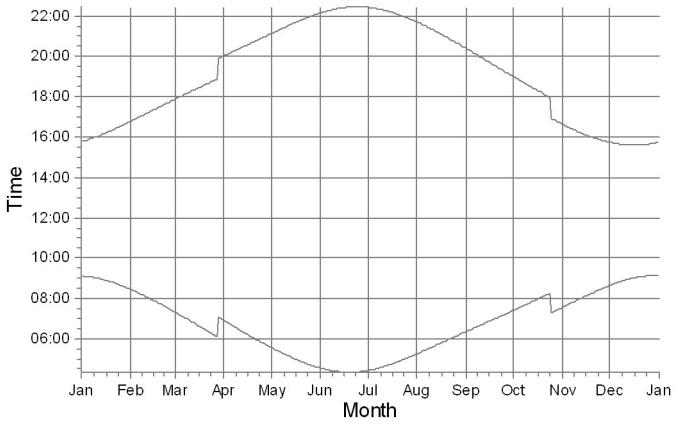
SHADOW - Calendar, graphical

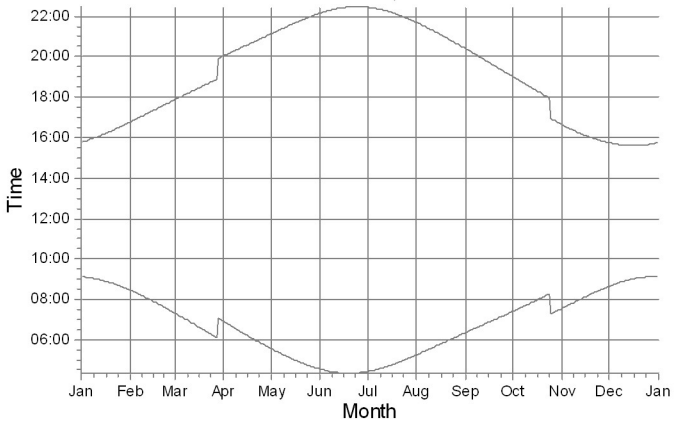
CA: Leinieki



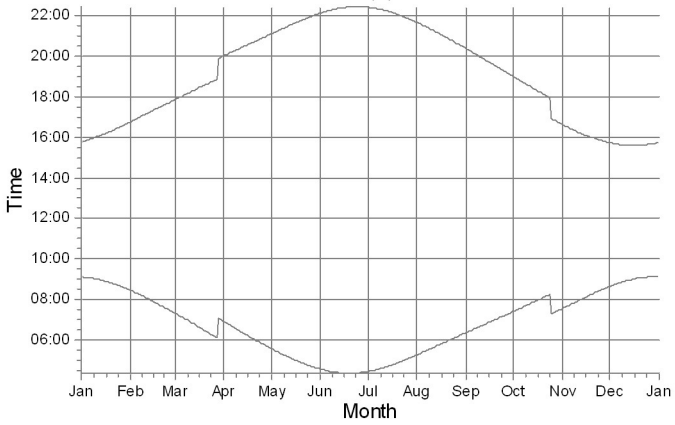
CB: Lielgravas



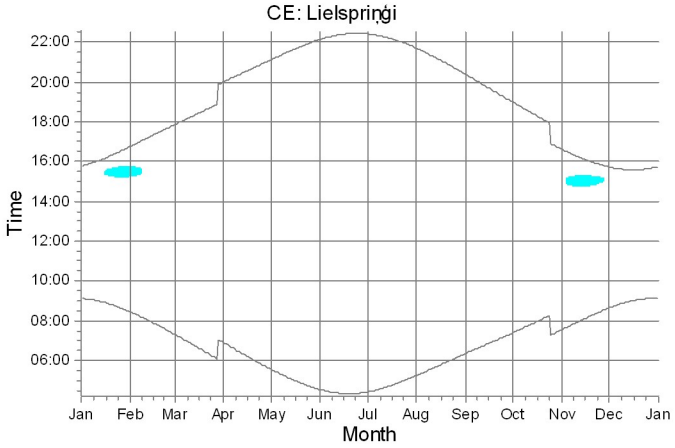
CC: Lielie Zariņi



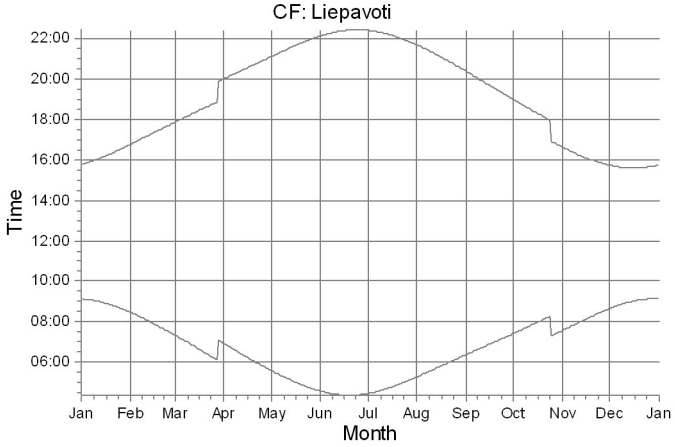
CD: Lielkuiķuļi



CE: Lielspriņģi



CF: Liepavoti



WTGs

13: Z17

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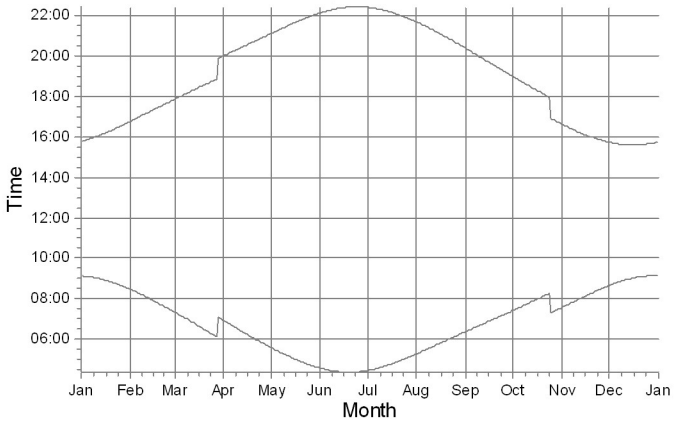
CG: Liepavoti 1



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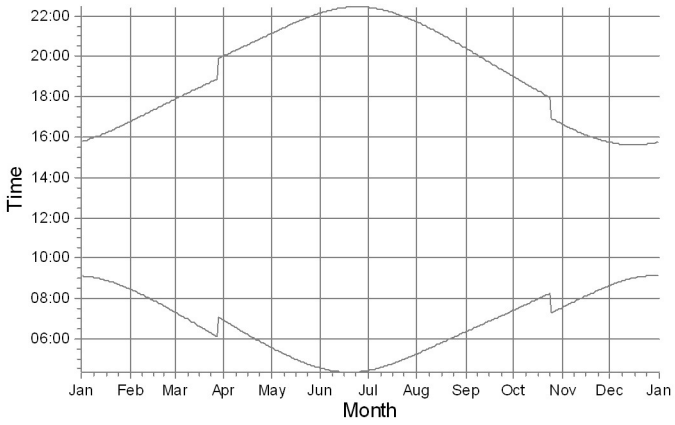
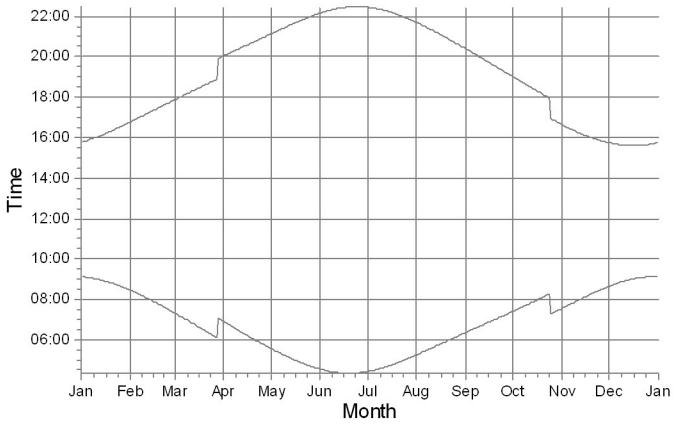
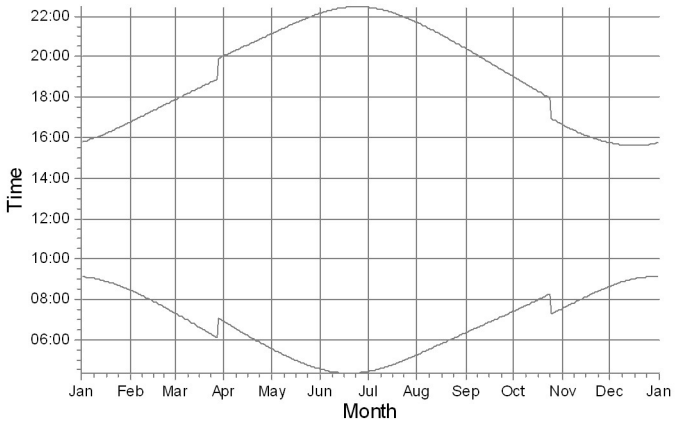


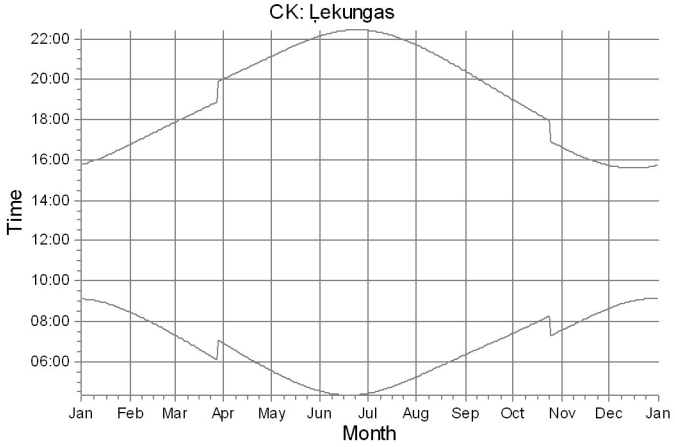
CI: Līčupītes



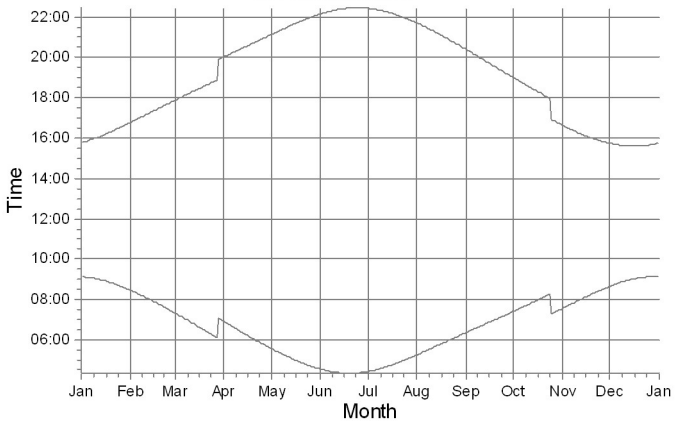
CJ: Lojas



CK: Ļekungas



CL: Madaru iela 5



WTGs

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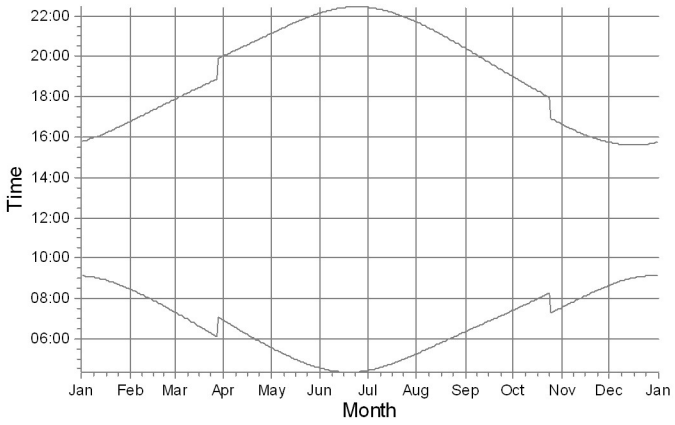
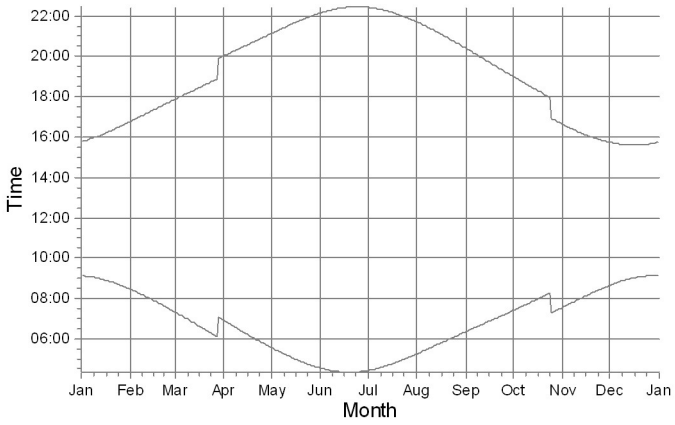
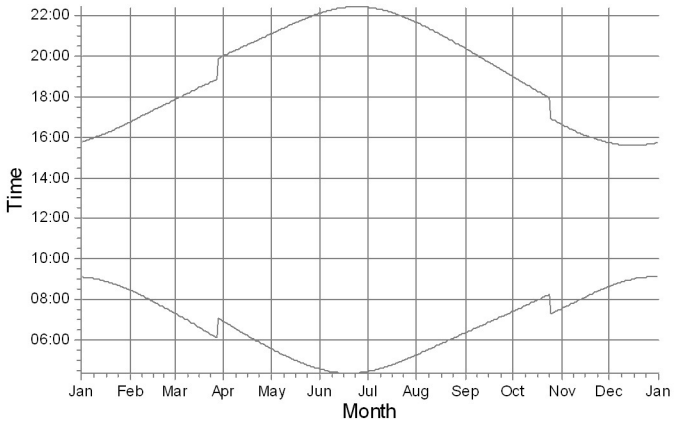
CM: Madaru iela 7



CN: Madaru iela 10



CO: Mazjesperi



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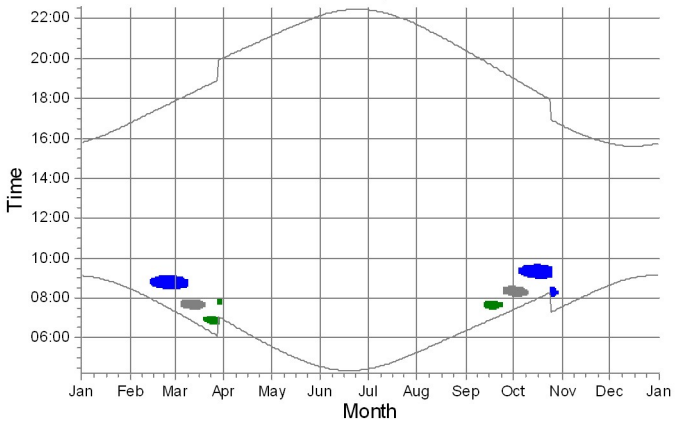
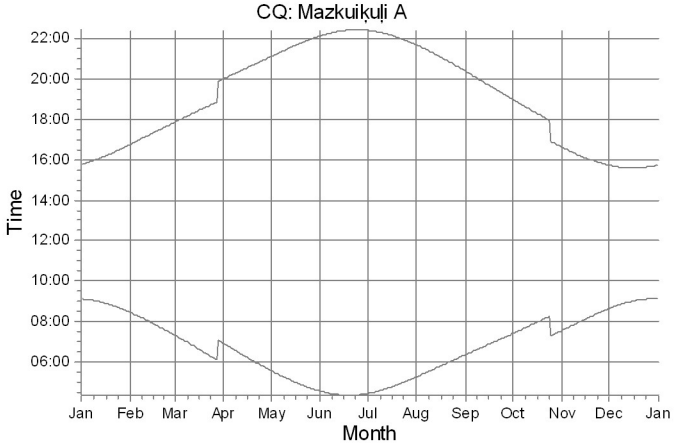
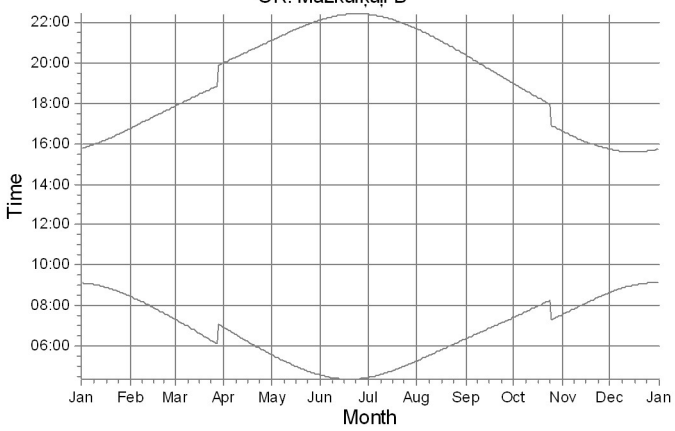


CQ: Mazkuiķuļi A



CR: Mazkuiķuļi B



WTGs

1: VES "Senlejas" 3: Z2 4: Z3

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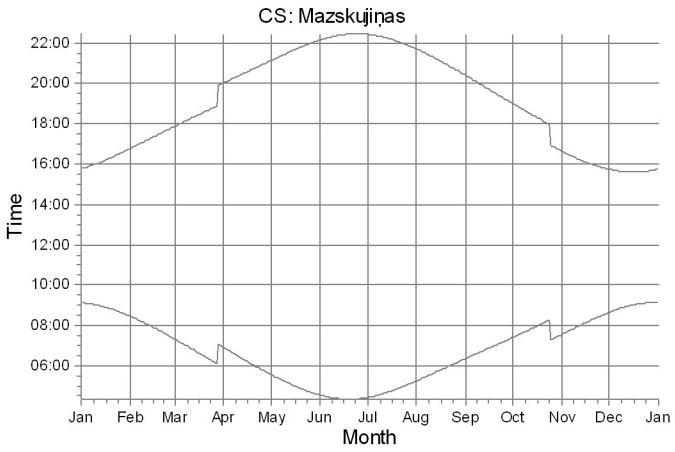
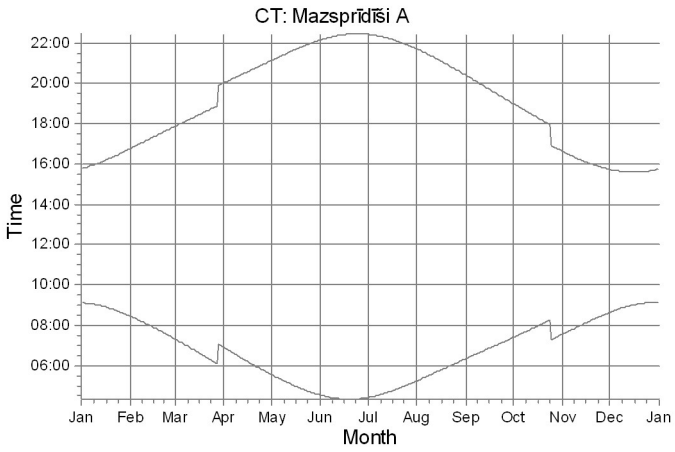
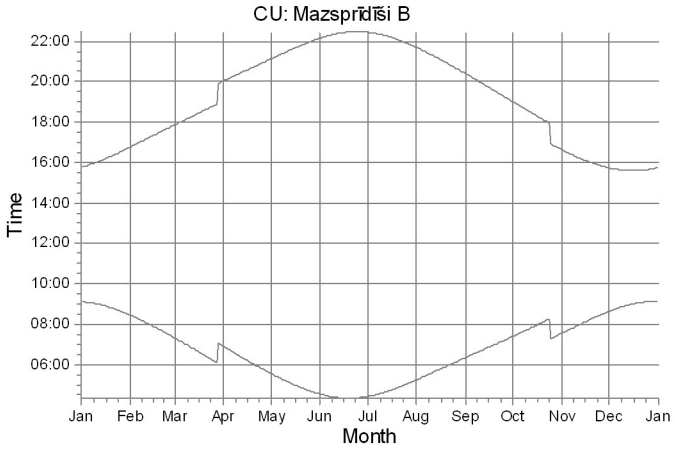
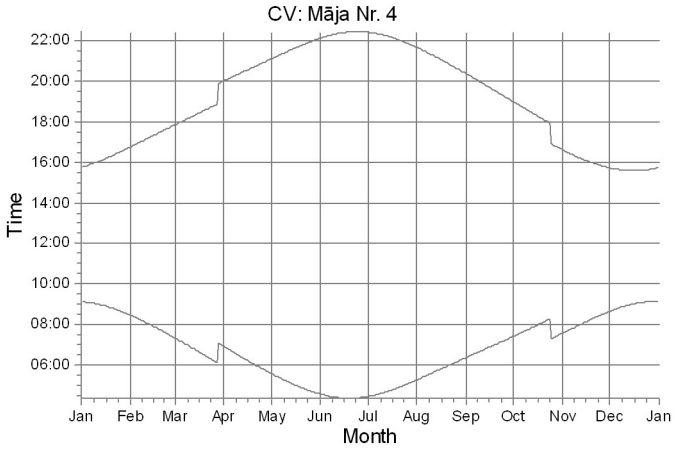
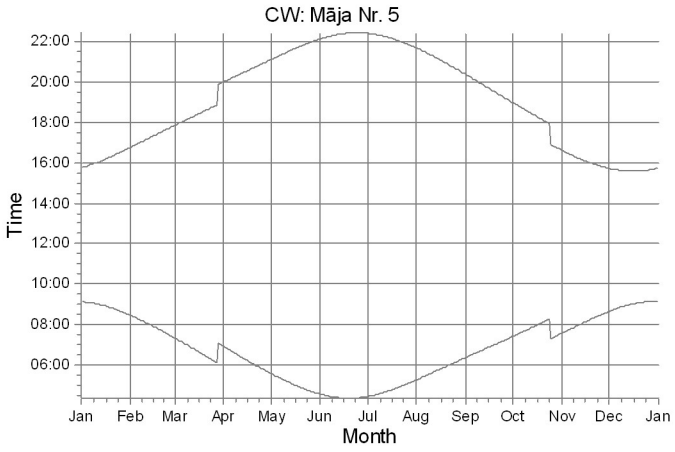
SHADOW - Calendar, graphical

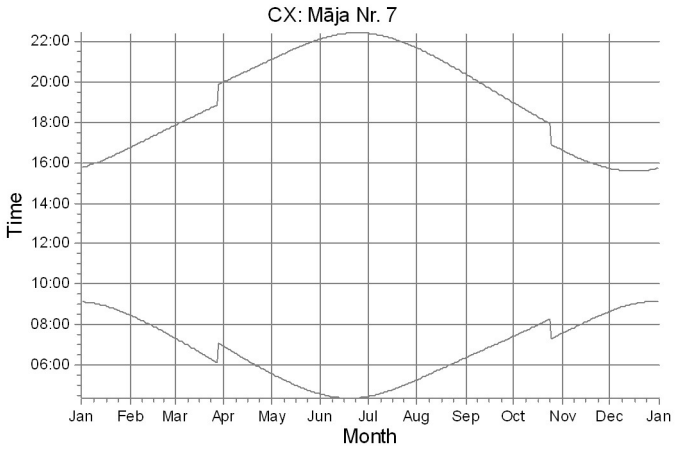












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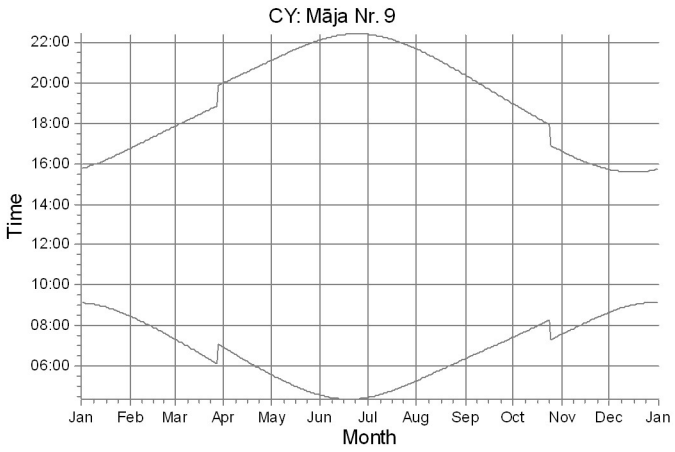
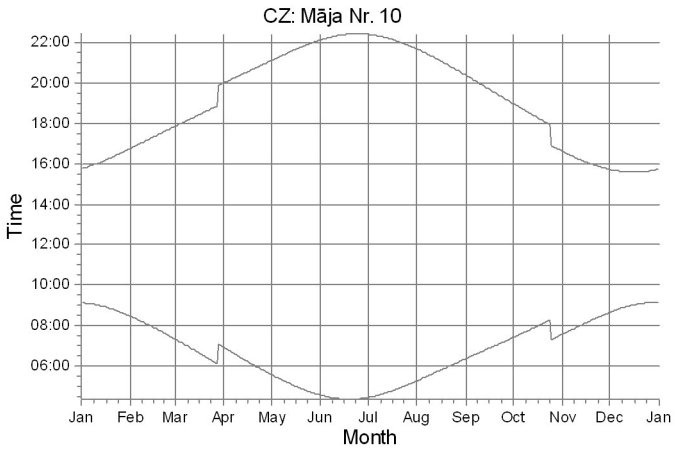
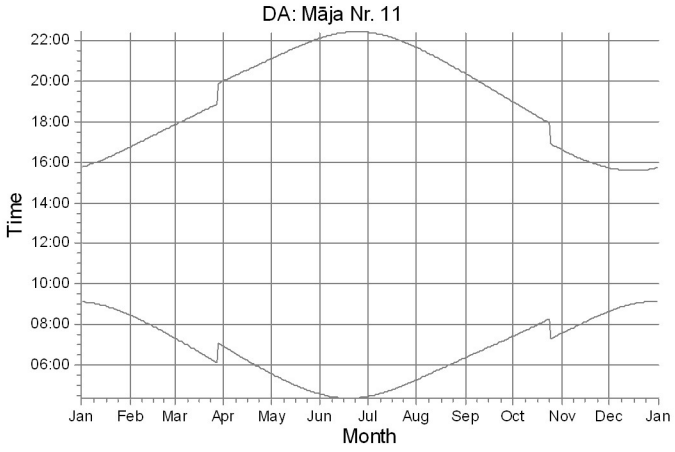
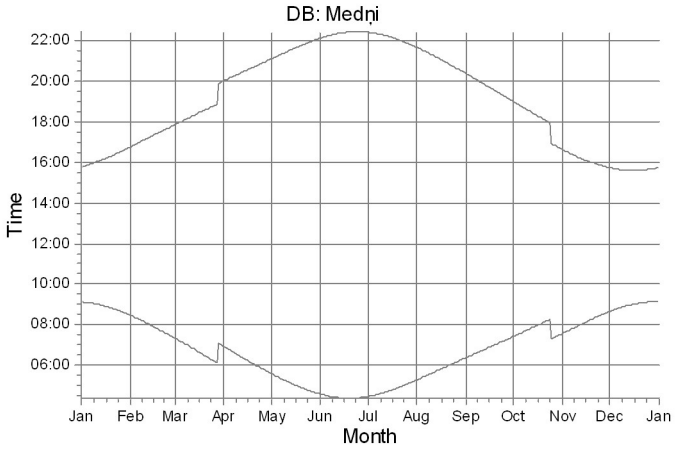
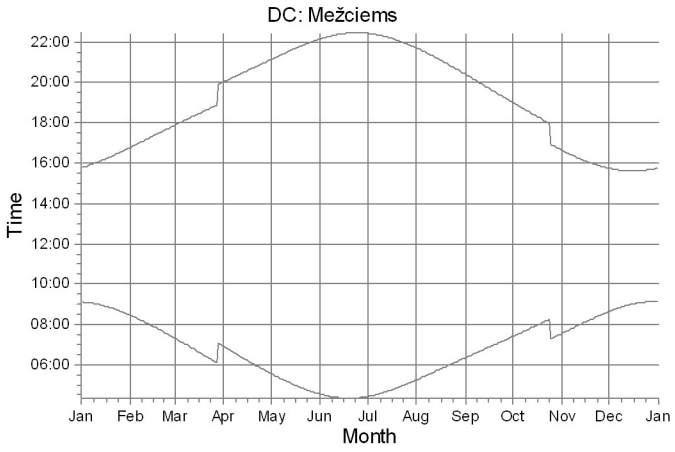
SHADOW - Calendar, graphical

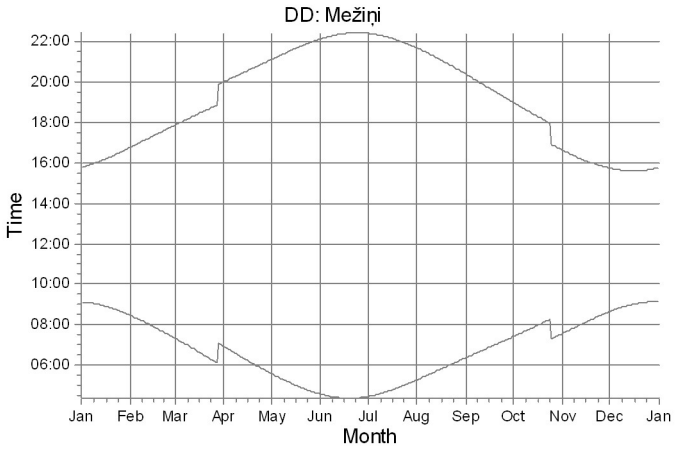












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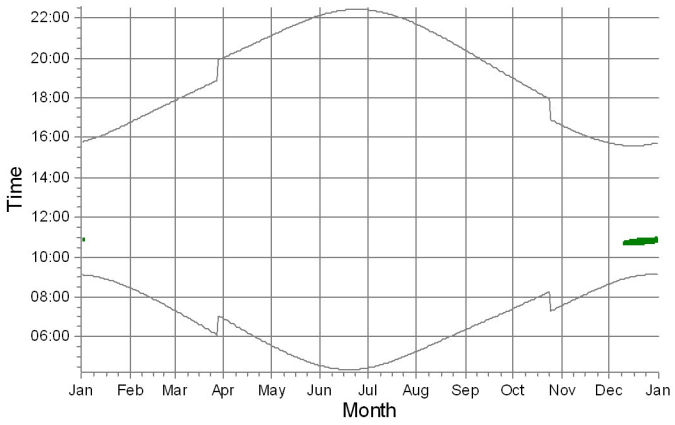
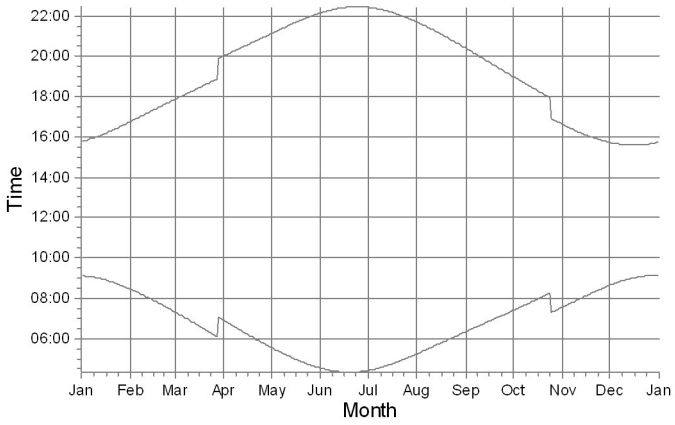
SHADOW - Calendar, graphical

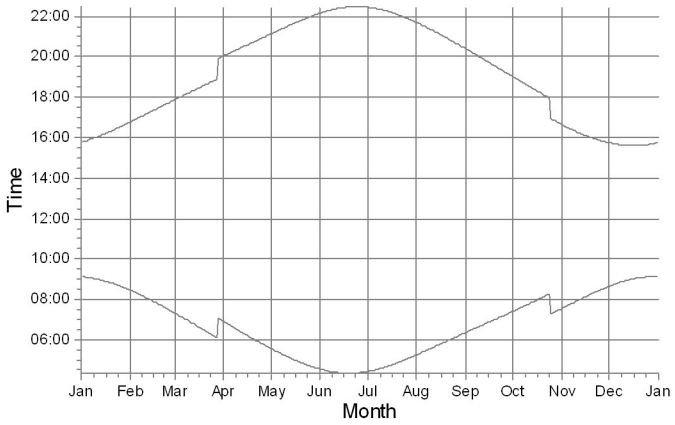
DE: Mežmeiniki



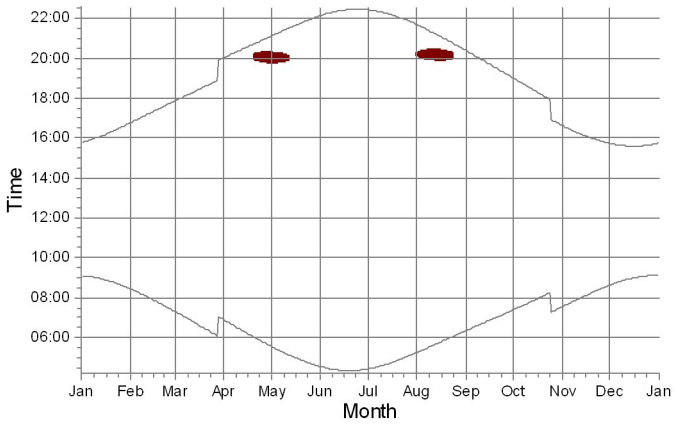
DF: Mežstrauti



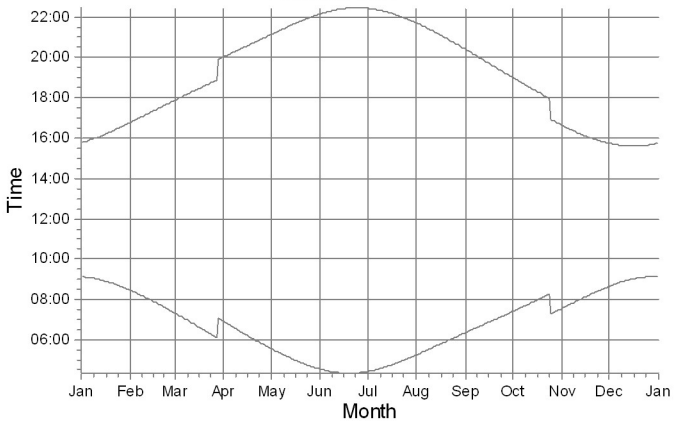
DG: Muižnieki



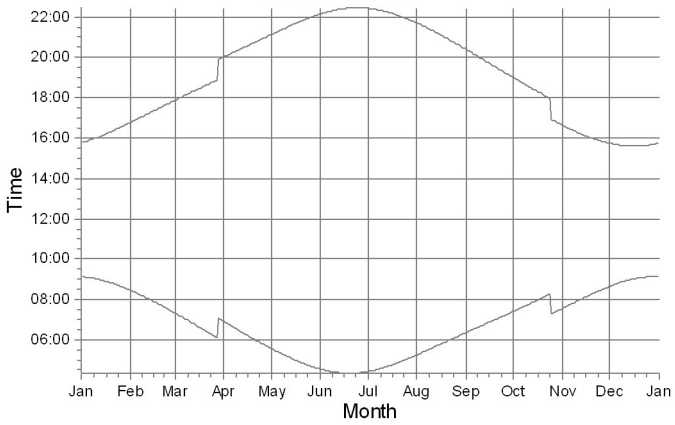
DH: Namdari



DI: Niedru iela 7



DJ: Niedru iela 9



WTGs

1: VES "Senlejas"

8: Z9

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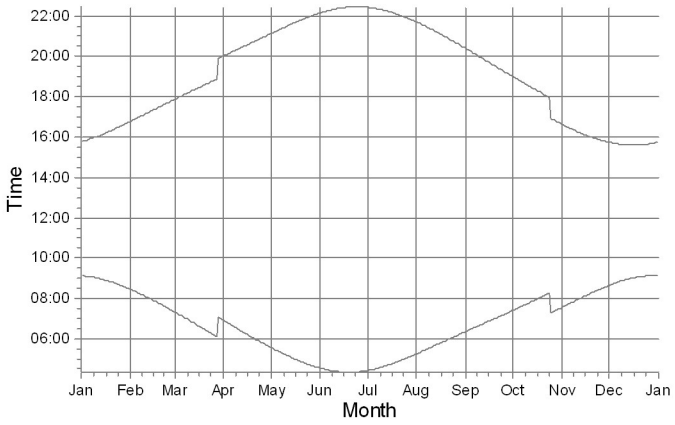
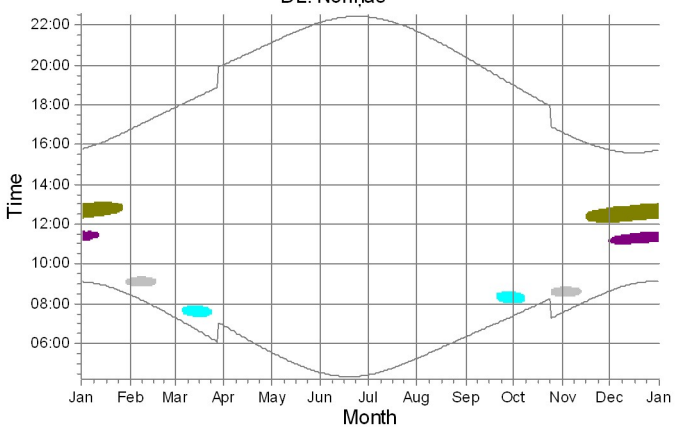
SHADOW - Calendar, graphical

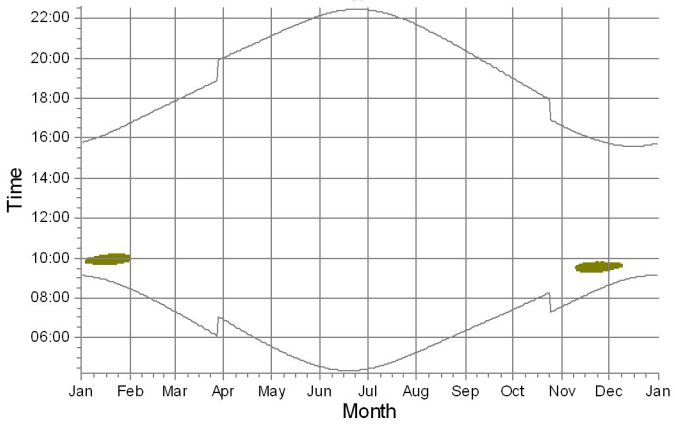
DK: Niedru iela 10



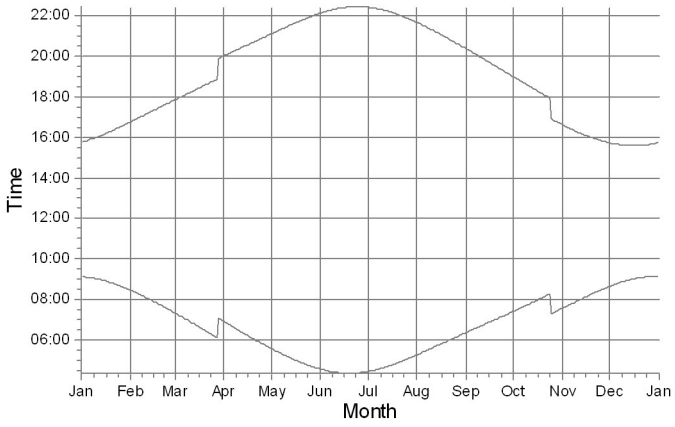
DL: Noriņas



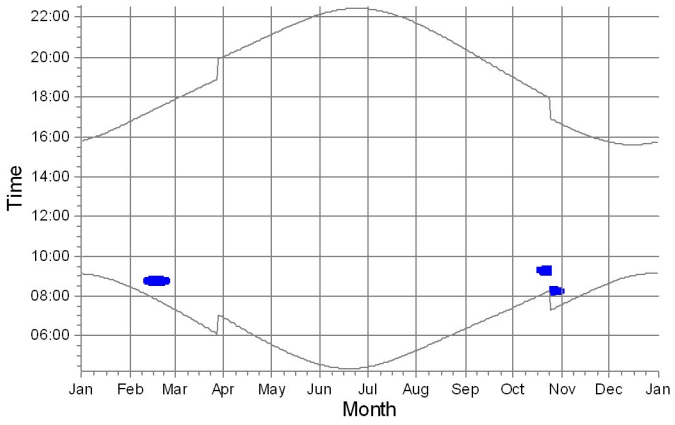
DM: Oļķi



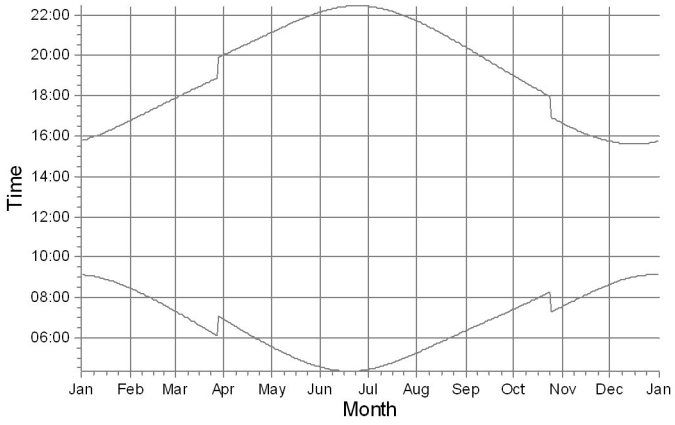
DN: Ošu iela 1



DO: Paegļi



DP: Parka iela 6



WTGs

3: Z2	11: Z13	13: Z17
10: Z12	12: Z16	

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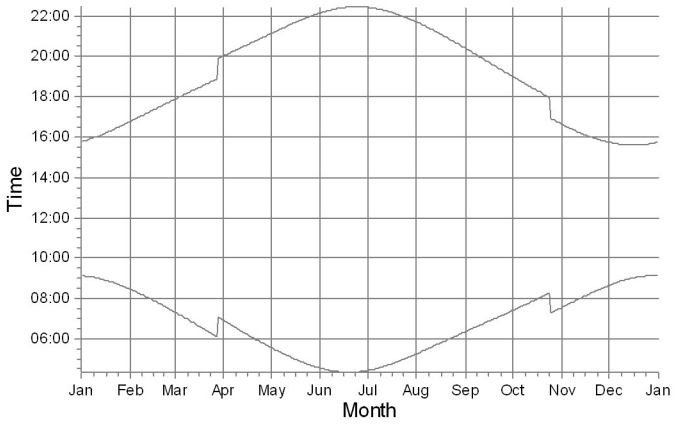
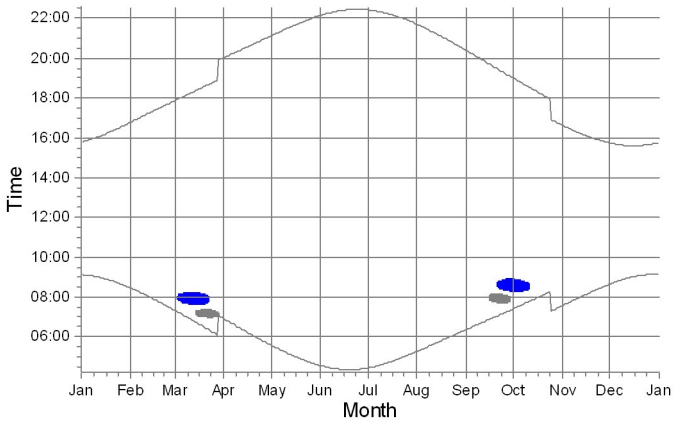
SHADOW - Calendar, graphical

DQ: Parka iela 8



DR: Pavasari



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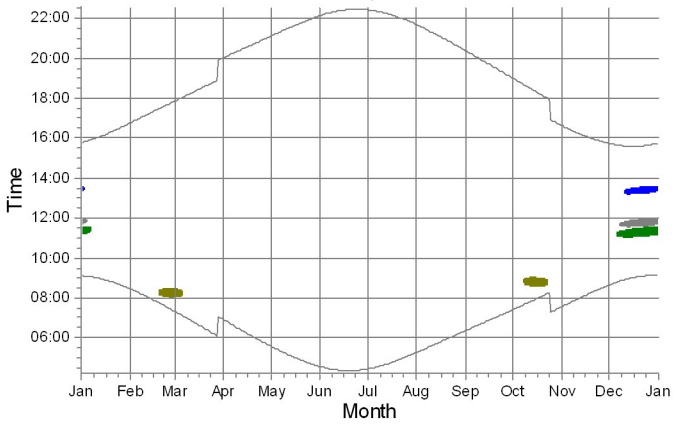
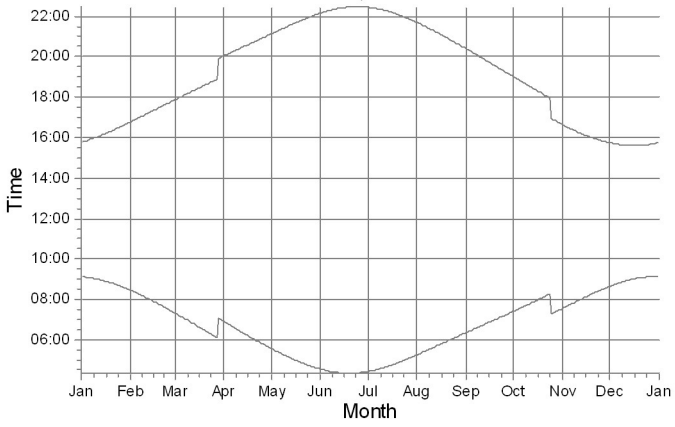
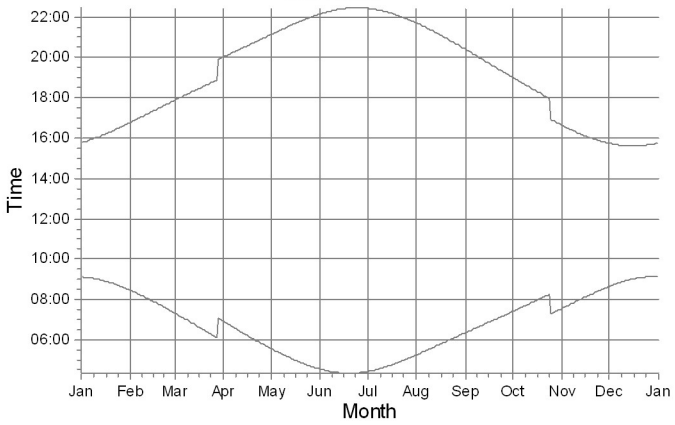


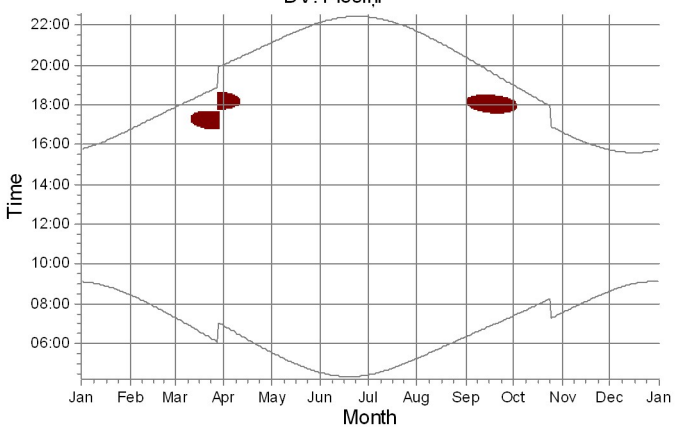
DT: Peciņas



DU: Pietes



DV: Plesiņi



WTGs

1: VES "Senlejas"	4: Z3	10: Z12
3: Z2	8: Z9	

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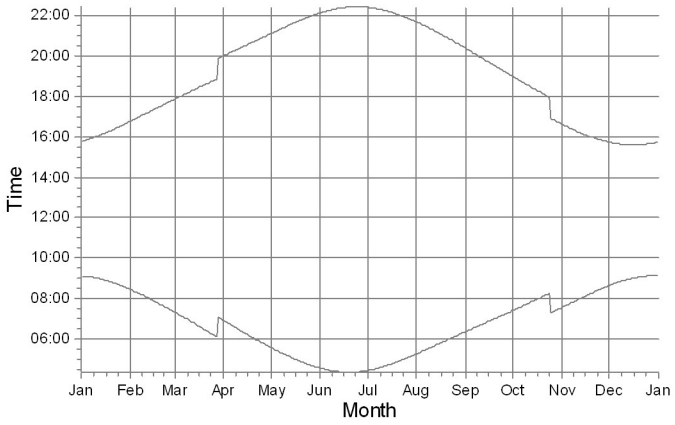
SHADOW - Calendar, graphical

DW: Podnieki A



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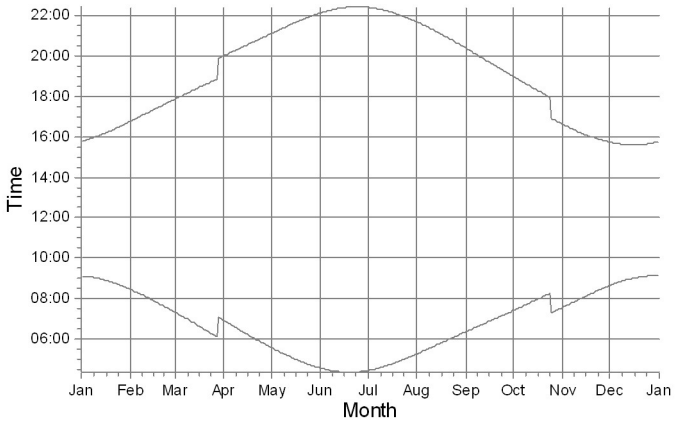
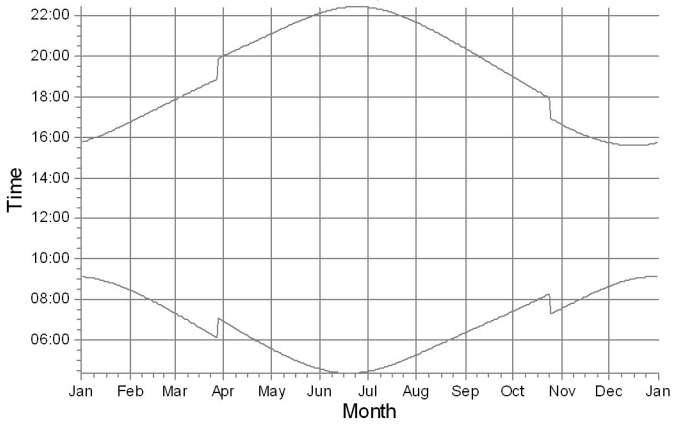
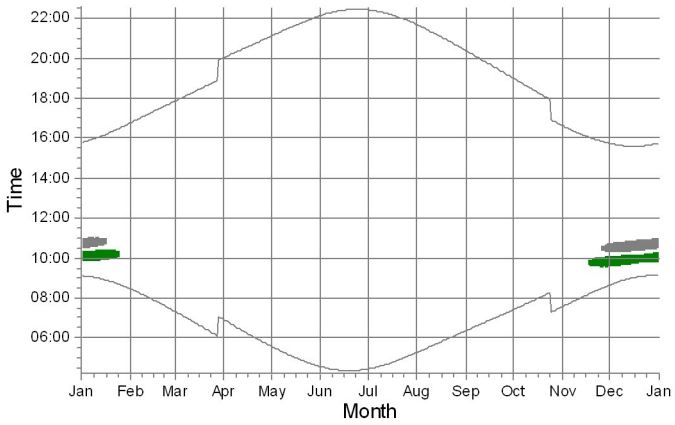


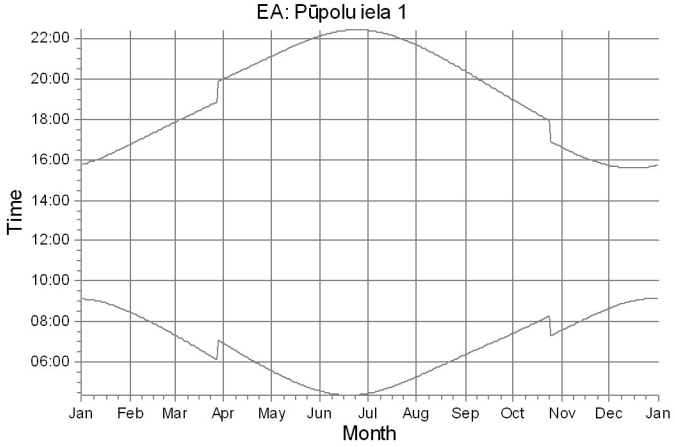
DY: Purmaļi



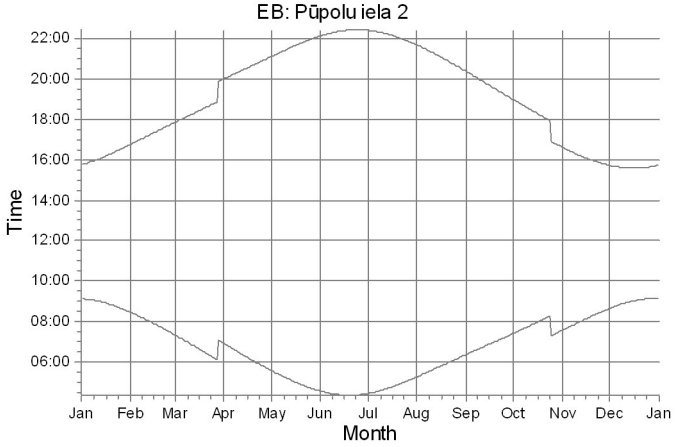
DZ: Pūcītes



EA: Pūpolu iela 1



EB: Pūpolu iela 2



WTGs

1: VES "Senlejas"

4: Z3

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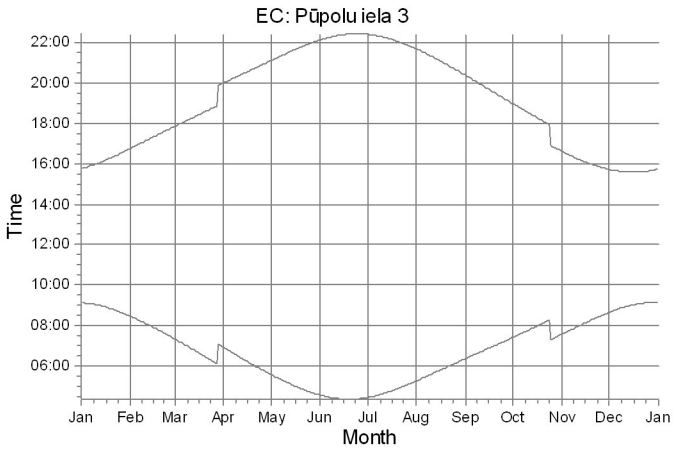
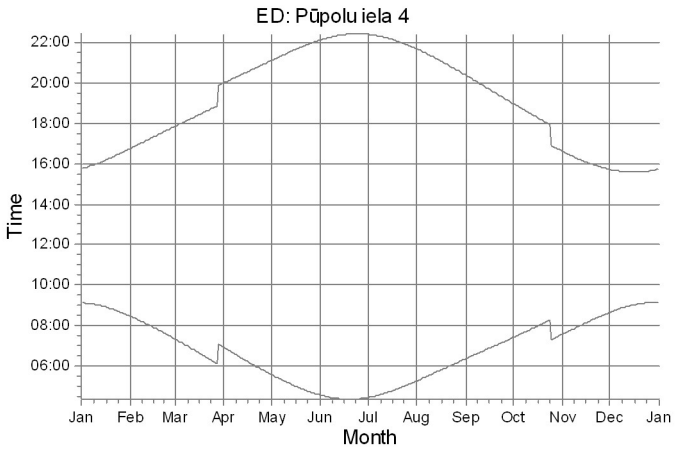
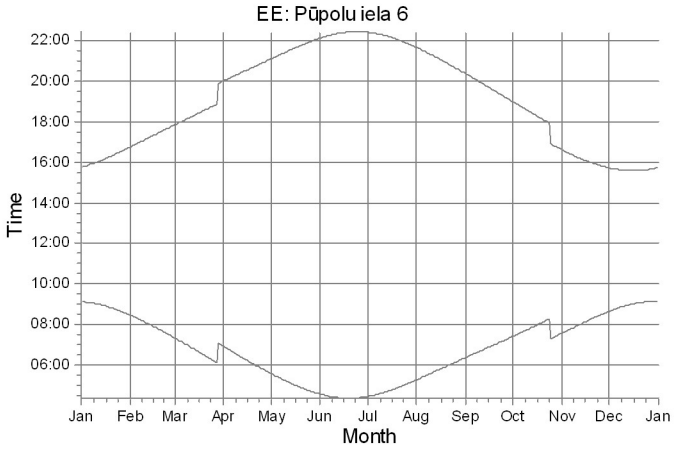
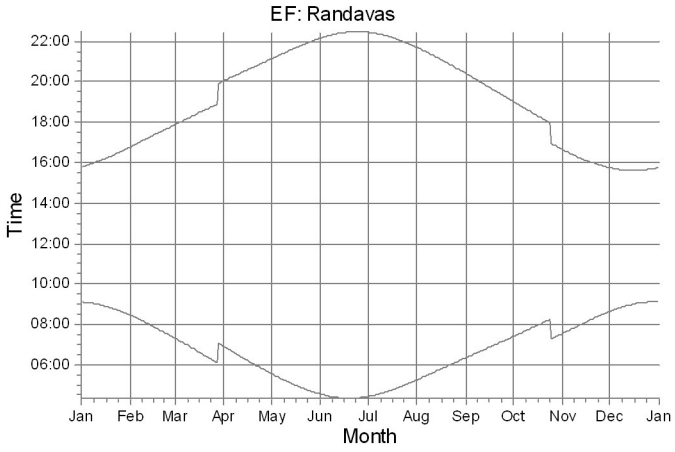
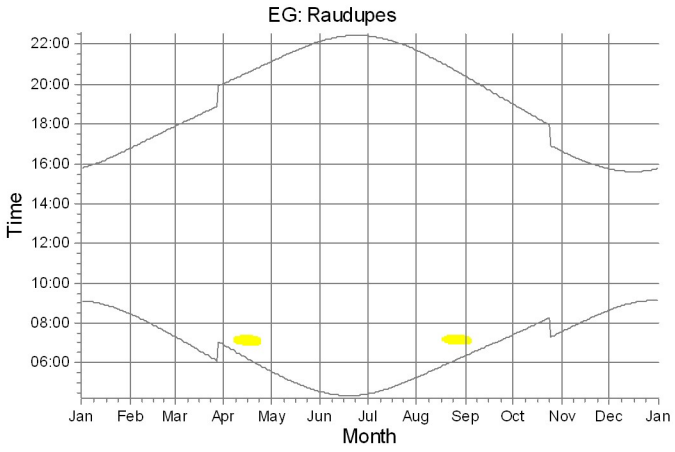
SHADOW - Calendar, graphical

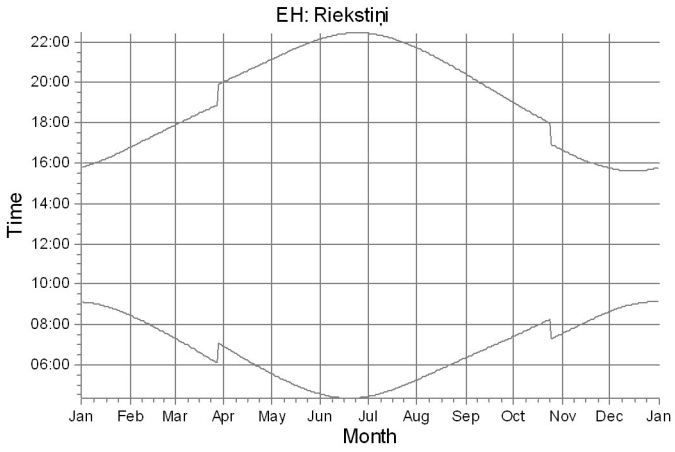












WTGs

2: Z1

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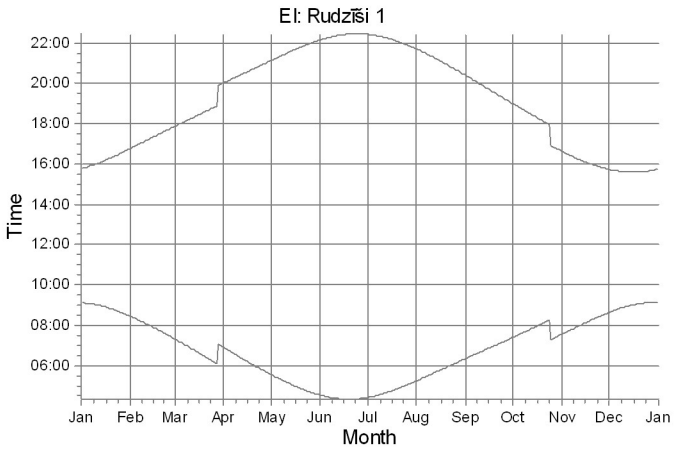

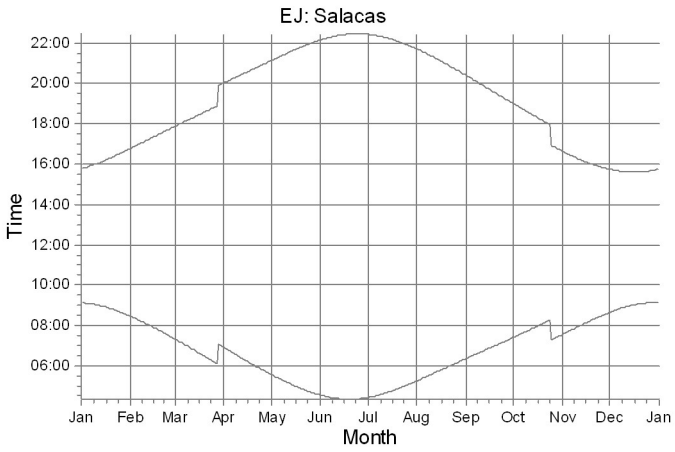

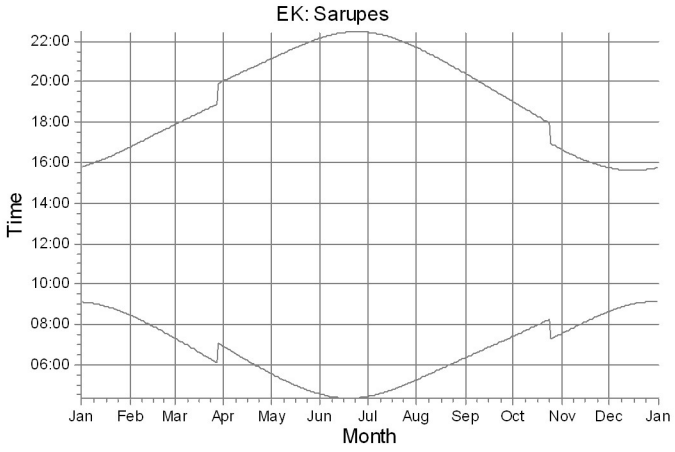

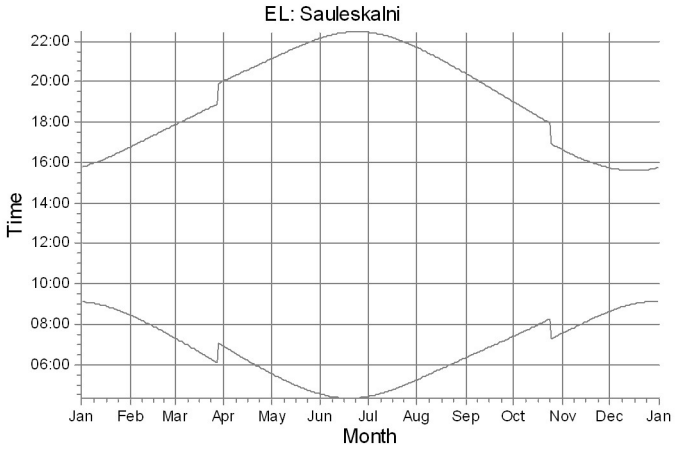

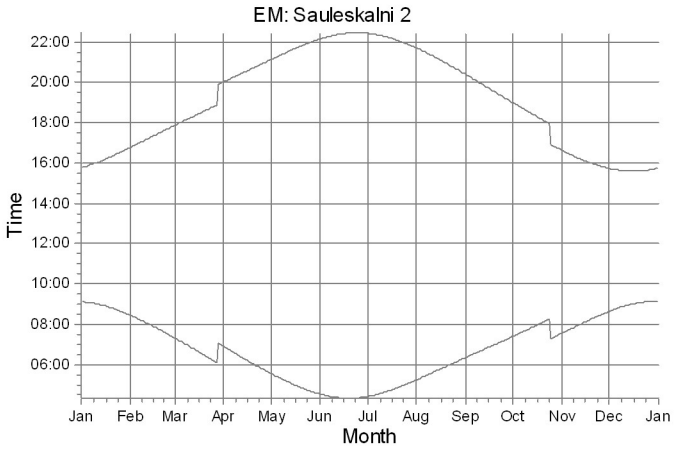

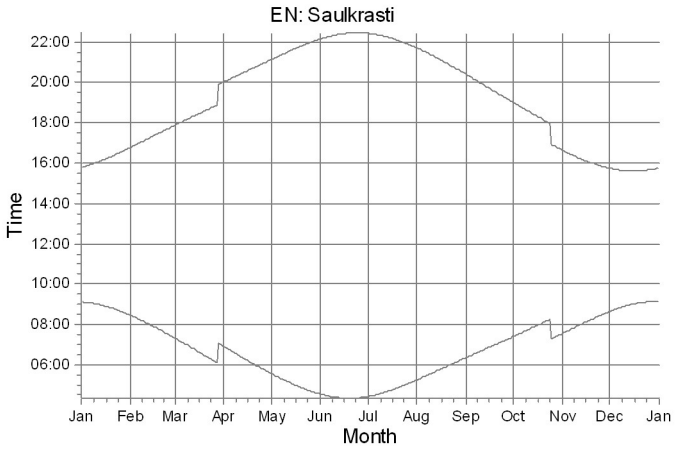

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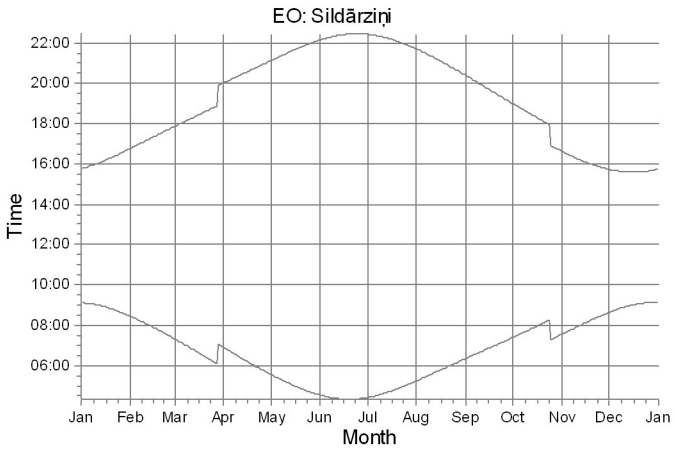
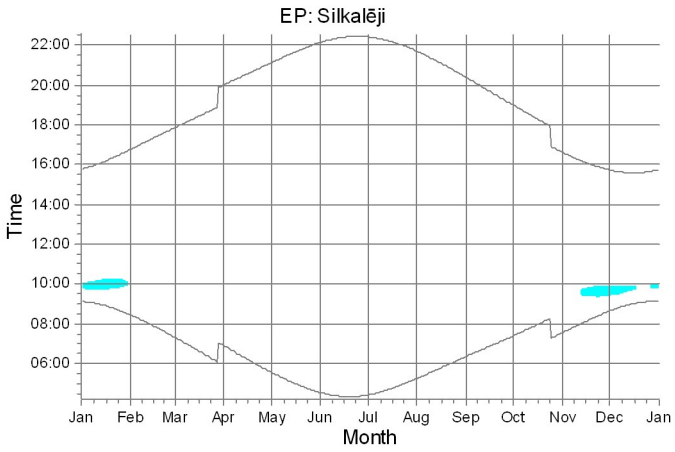
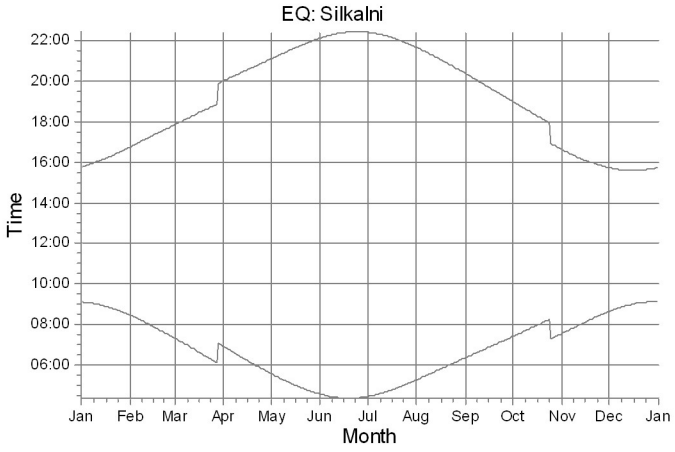
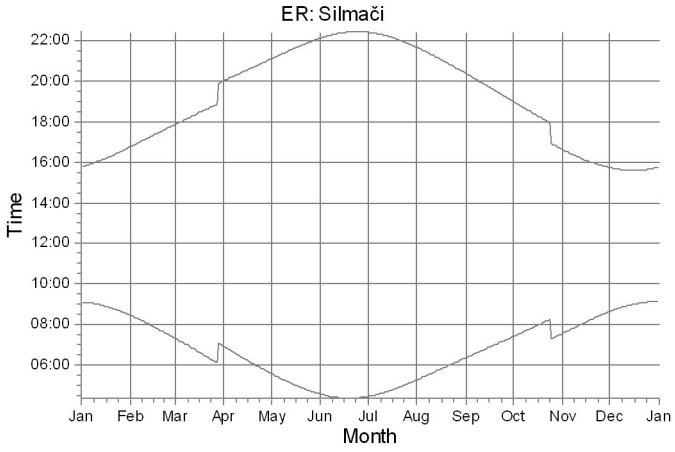
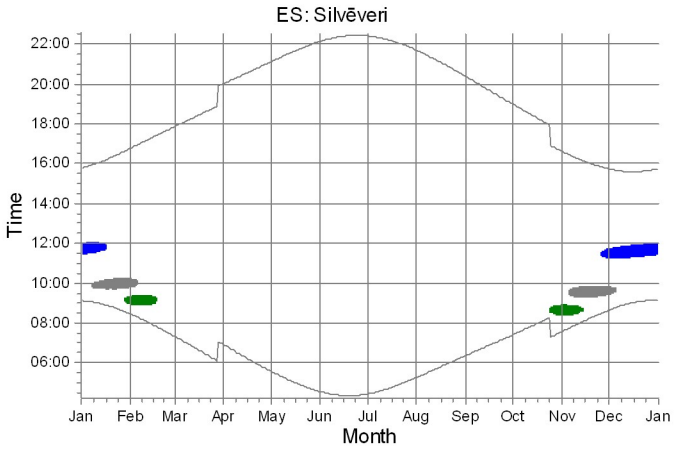
SHADOW - Calendar, graphical

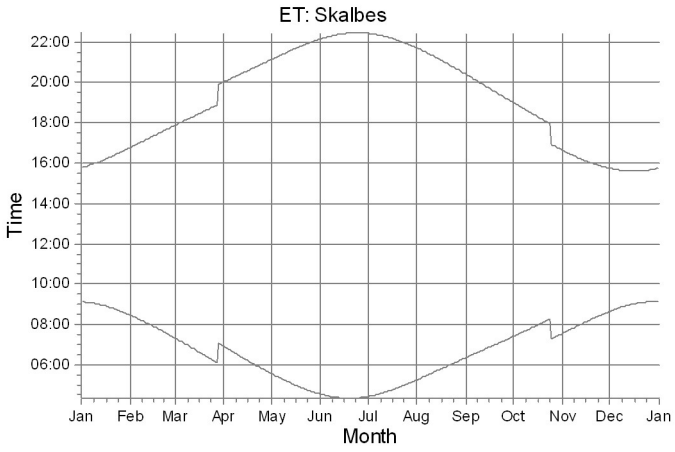












WTGs

1: VES "Senlejas" 3: Z2 4: Z3 13: Z17

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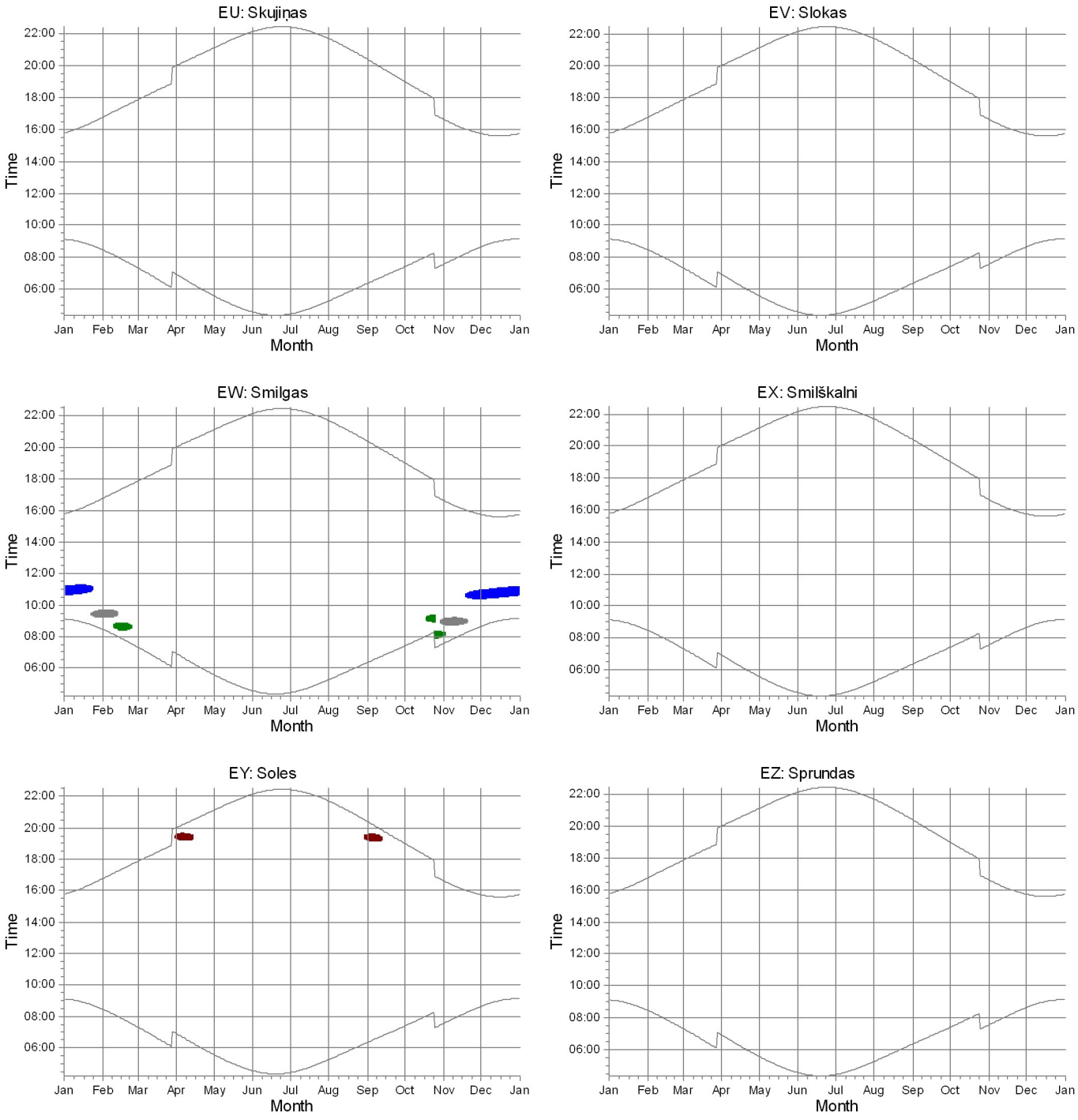
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas" 3: Z2 4: Z3 8: Z9

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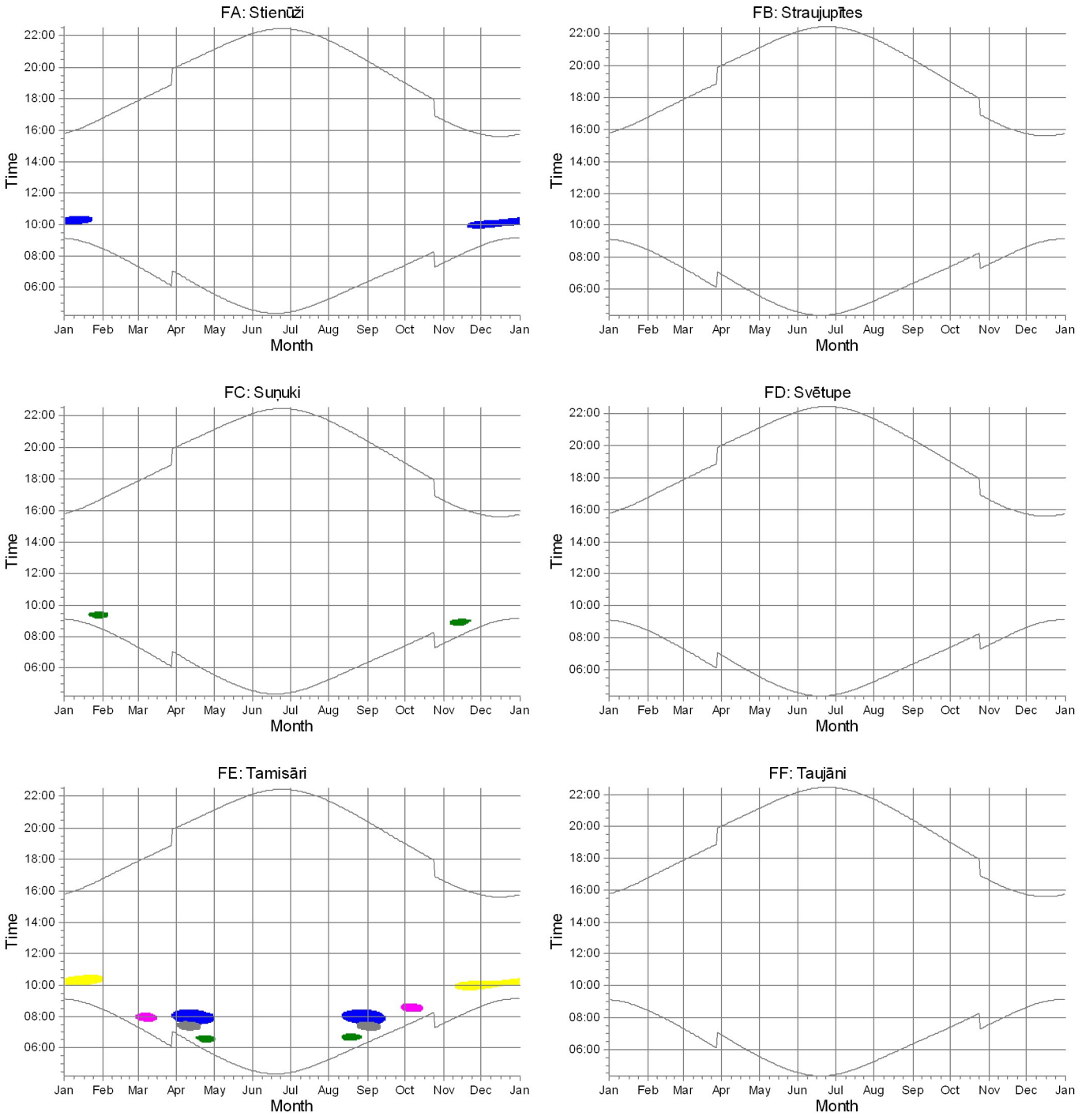
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"
2: Z1
3: Z2
4: Z3
5: Z4

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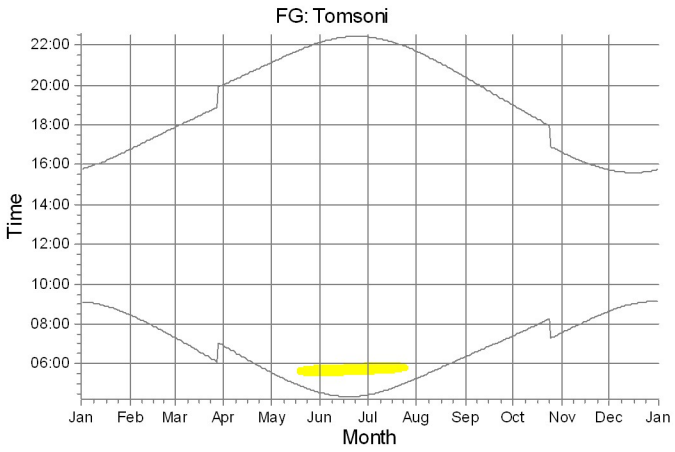
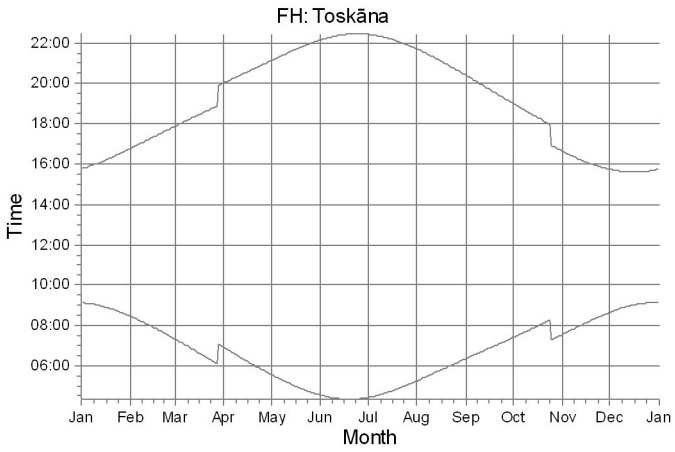
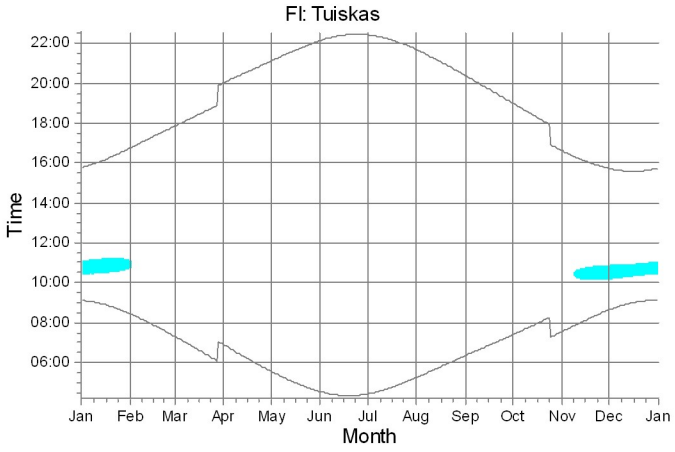
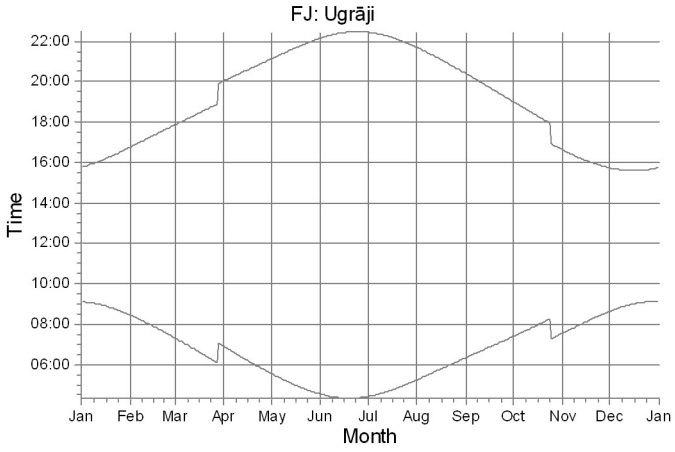
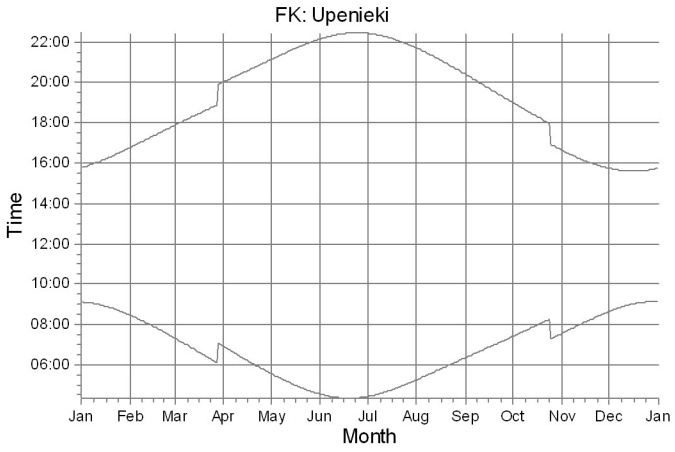
SHADOW - Calendar, graphical

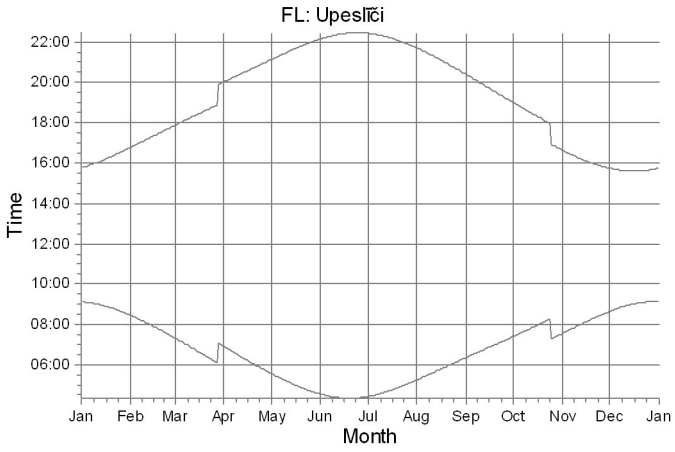












WTGs

2: Z1

13: Z17

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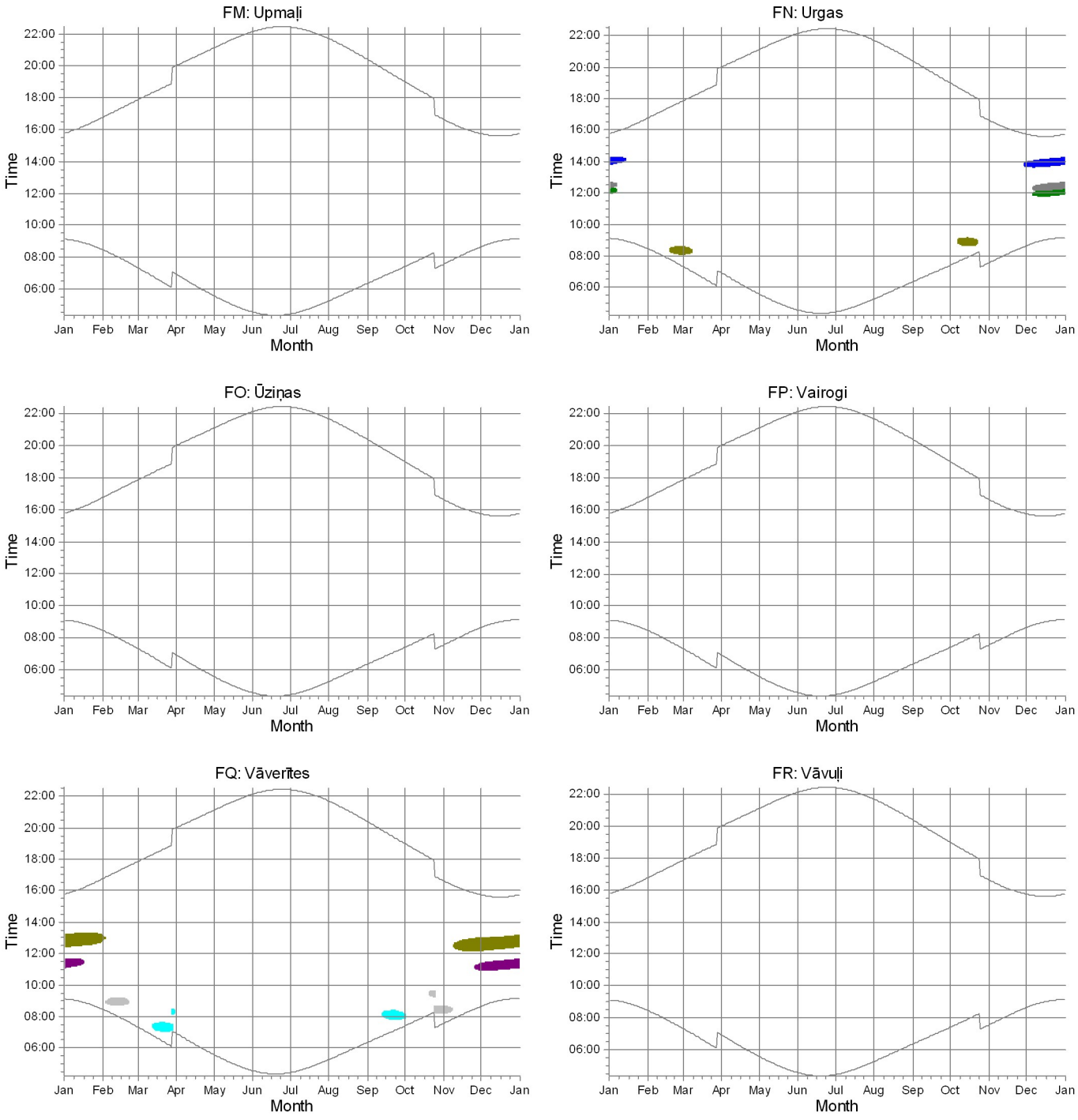
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	11: Z13	13: Z17
3: Z2	10: Z12	12: Z16	

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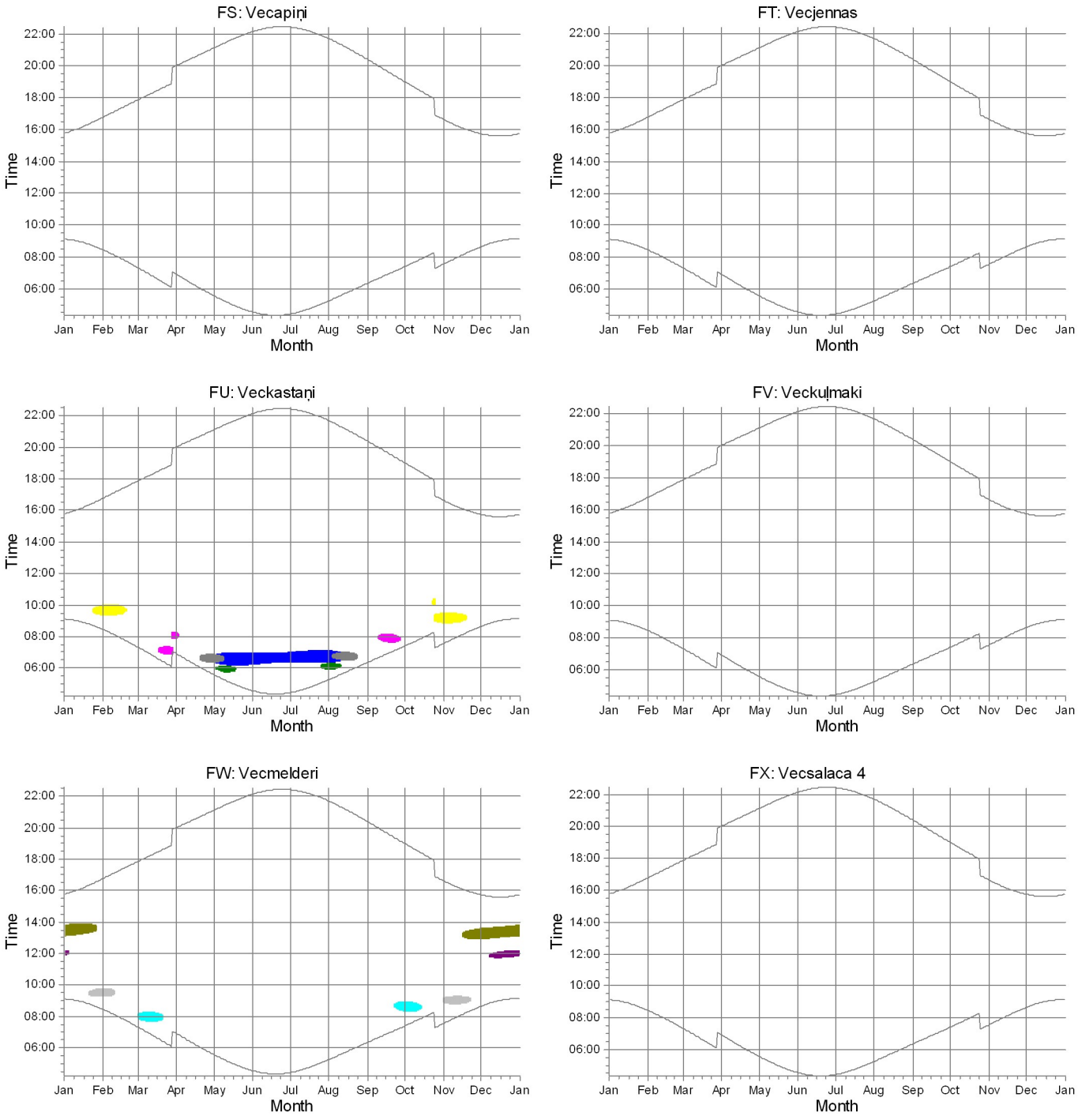
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	11: Z13
2: Z1	5: Z4	12: Z16
3: Z2	10: Z12	13: Z17

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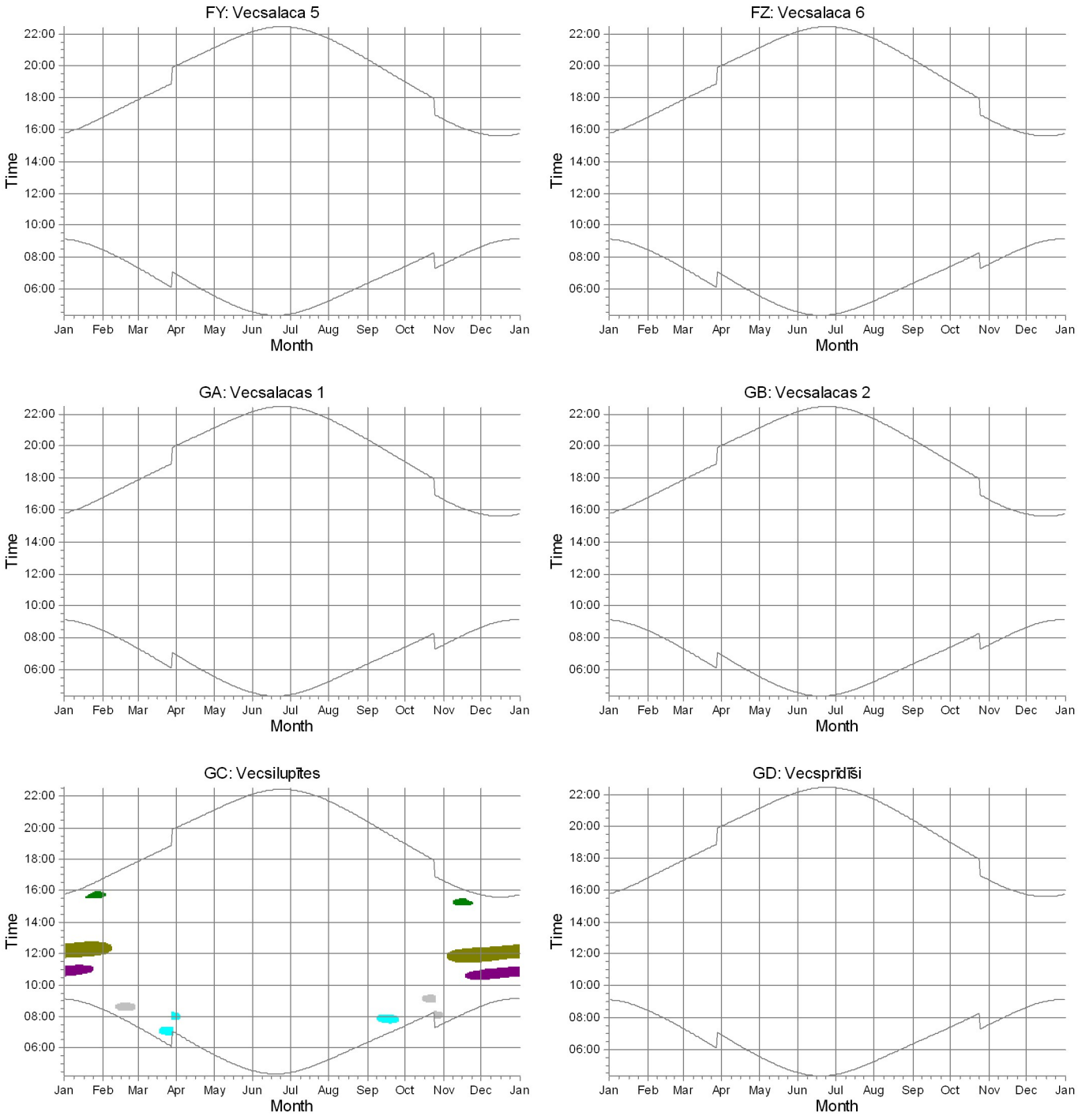
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	11: Z13	13: Z17
10: Z12	12: Z16	

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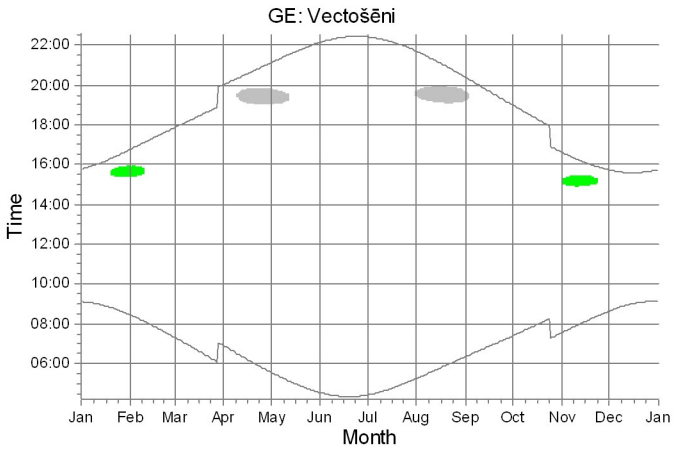
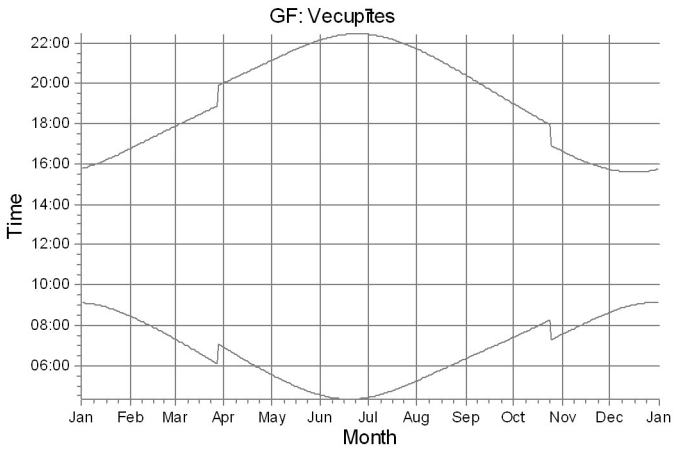
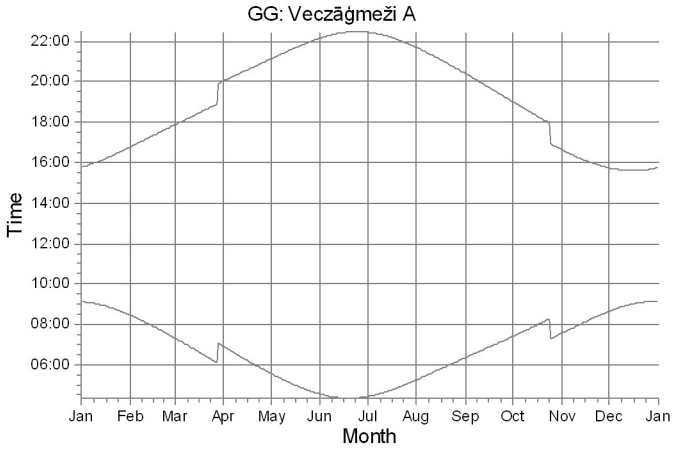
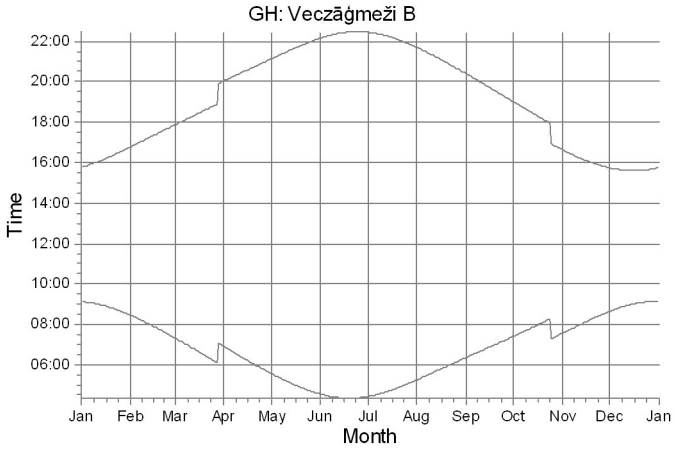
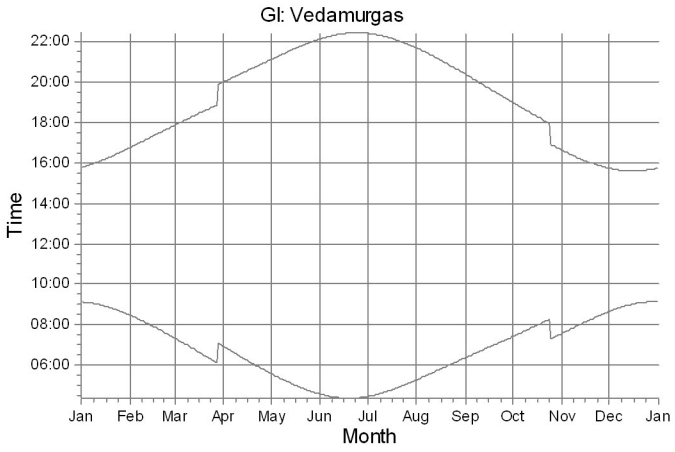
SHADOW - Calendar, graphical

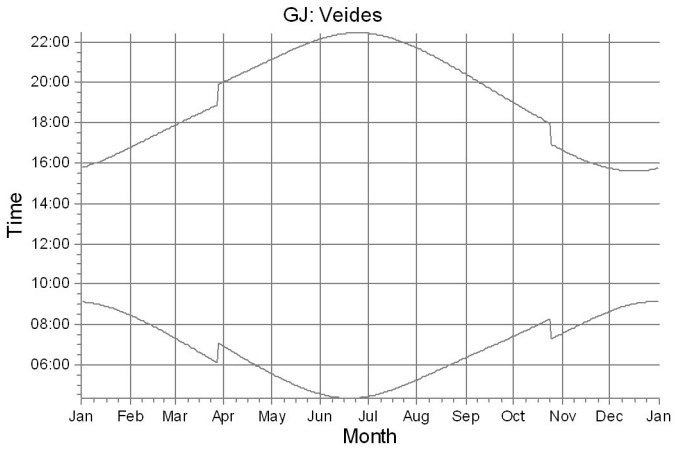












WTGs

9: Z10

12: Z16

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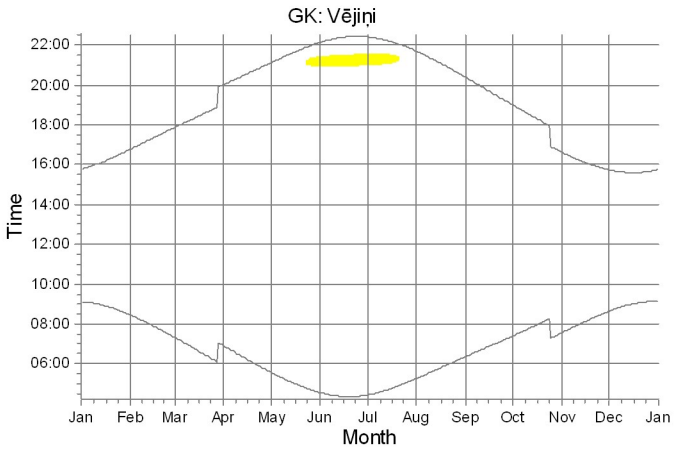
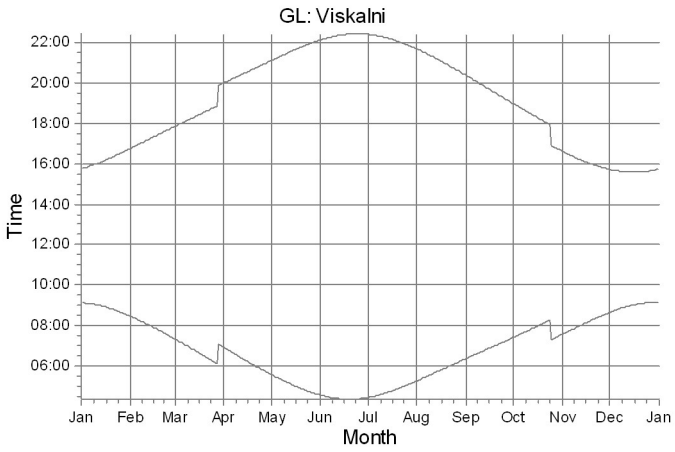
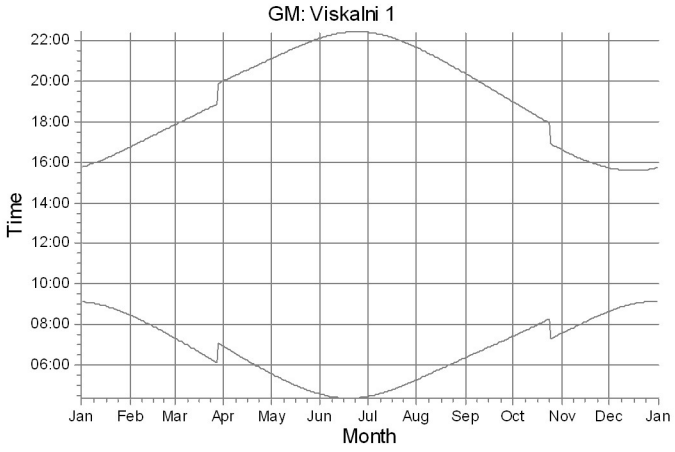
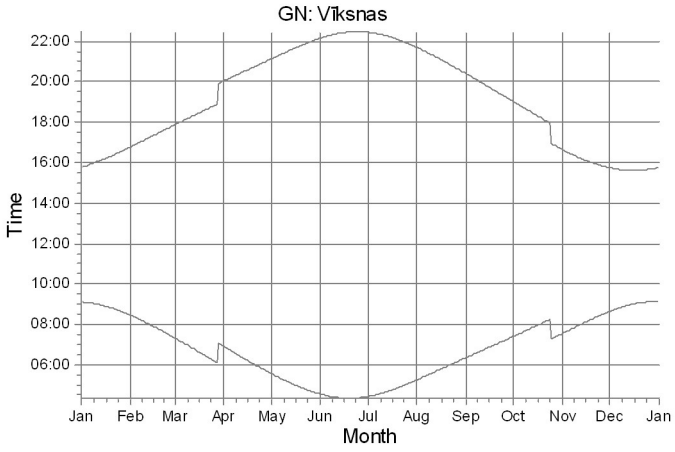
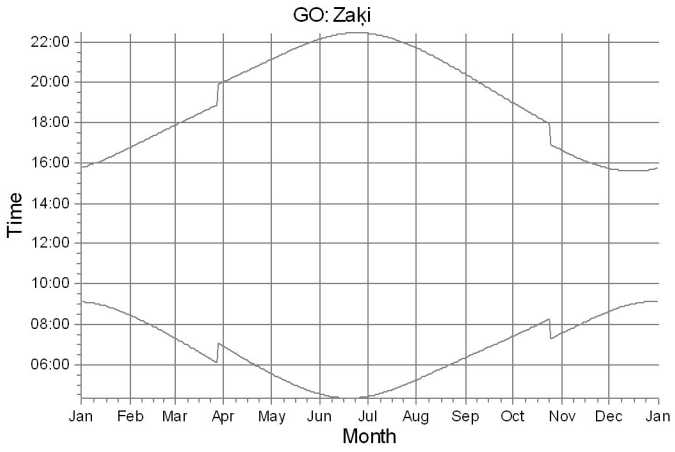
SHADOW - Calendar, graphical

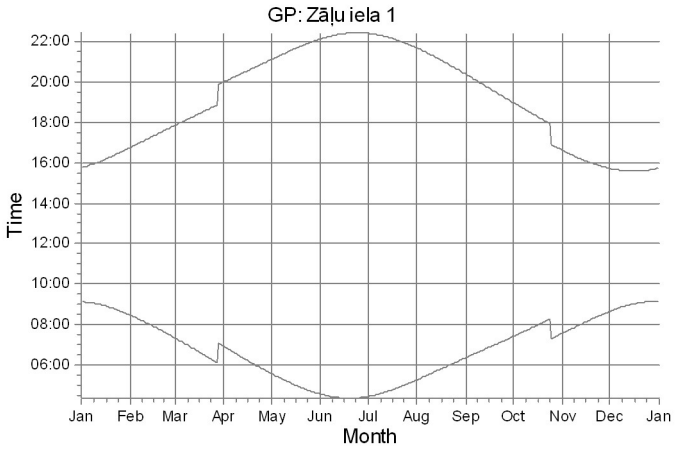












WTGs

2: Z1

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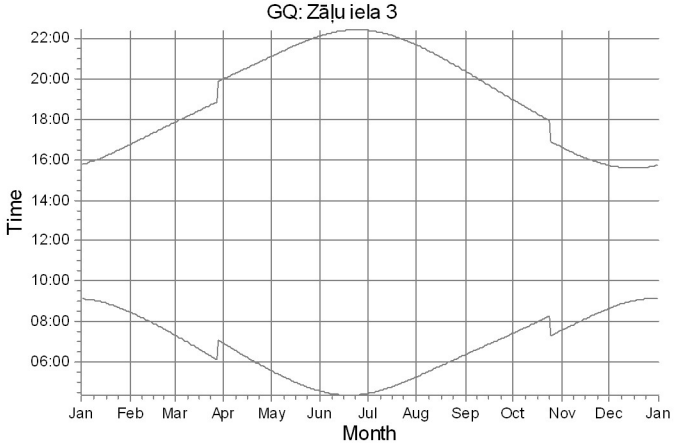
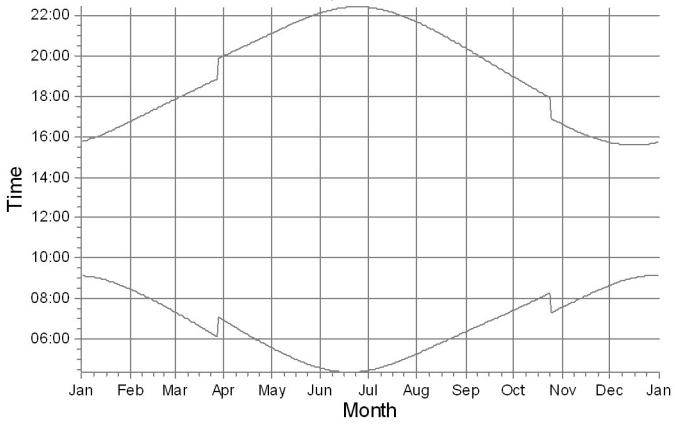
SHADOW - Calendar, graphical

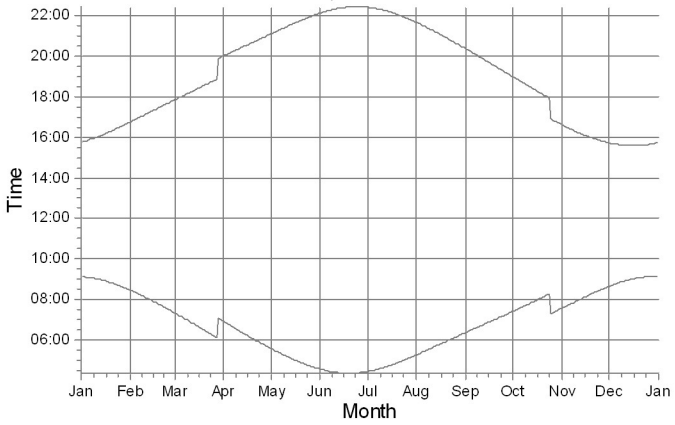
GQ: Zāļu iela 3



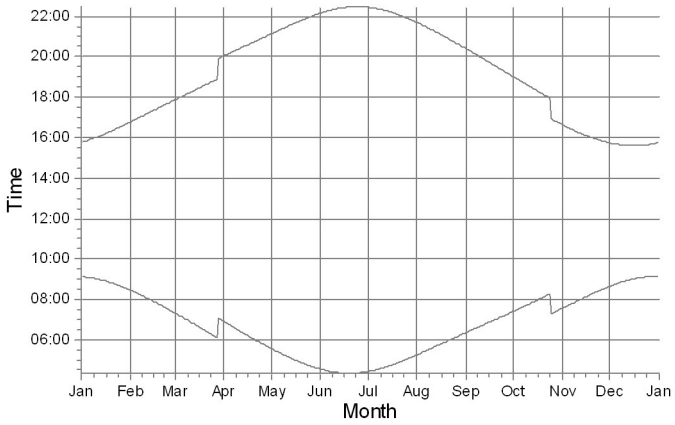
GR: Zāļu iela 5



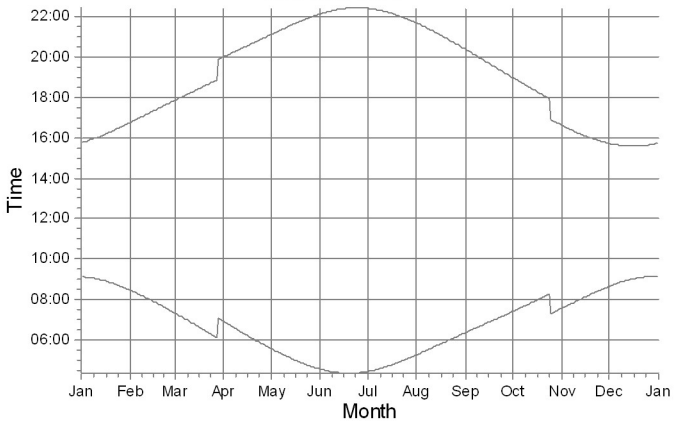
GS: Zāļu iela 7



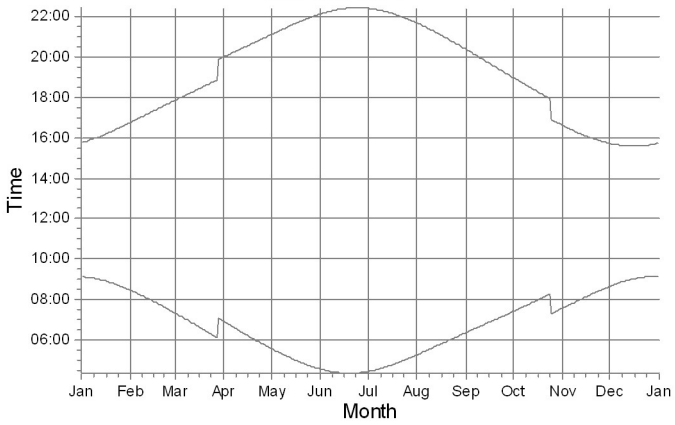
GT: Zemzari



GU: Zītaru iela 3



GV: Zītaru iela 4



WTGs

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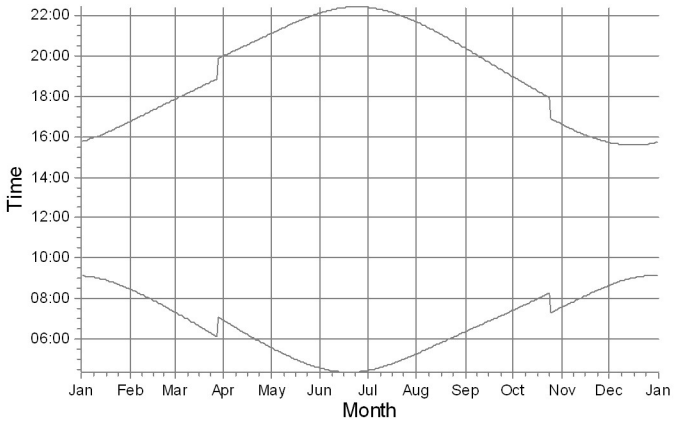
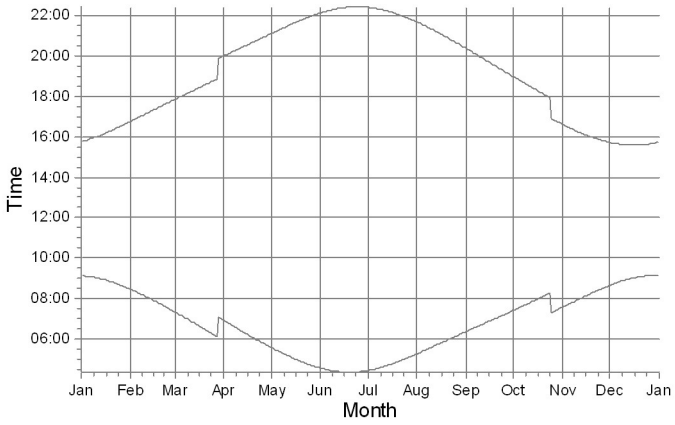
SHADOW - Calendar, graphical

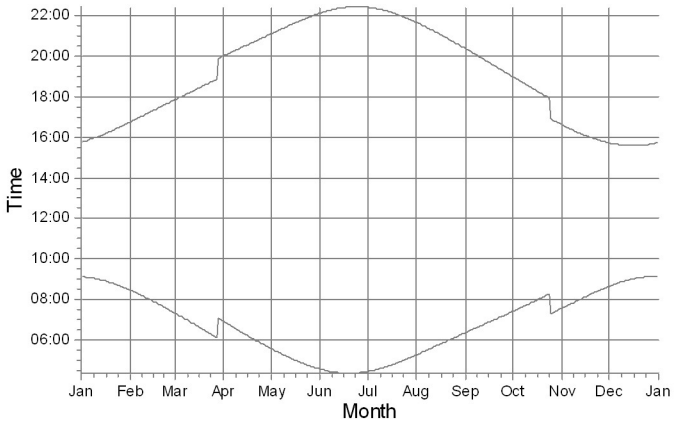
GW: Zītaru iela 5



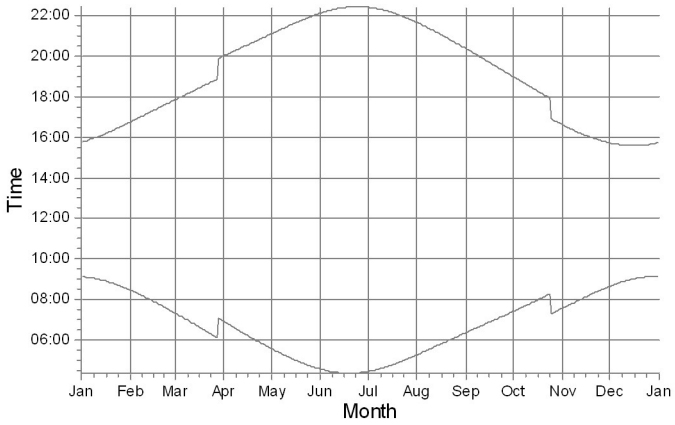
GX: Zītaru iela 6



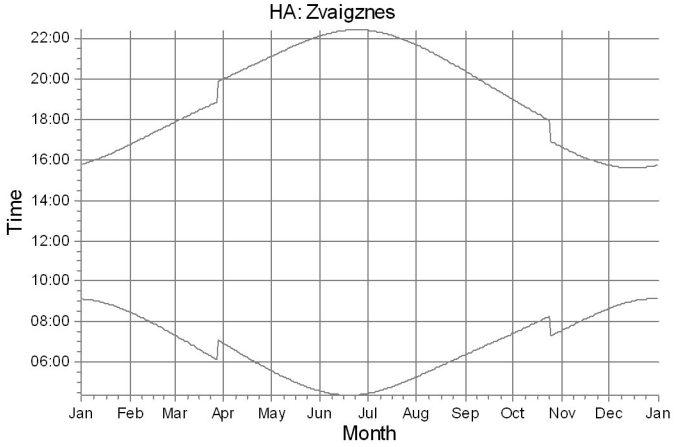
GY: Zītaru iela 7



GZ: Zītaru iela 8



HA: Zvaigznes



WTGs

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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

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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

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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 10:03-10:47/44	08:27 09:25-10:14/49	07:20	06:54	05:34	04:33 20:59-21:22/23
	15:46	16:46	17:52	20:01	21:07	22:09 05:22-05:53/31
2	09:06 10:04-10:48/44	08:25 09:24-10:13/49	07:17	06:51	05:31 06:09-06:14/5	04:32 20:59-21:23/24
	15:47	16:49	17:54	20:03	21:10	22:10 05:21-05:53/32
3	09:06 10:04-10:48/44	08:23 09:24-10:14/50	07:14	06:48	05:29 06:05-06:17/12	04:31 20:59-21:23/24
	15:48	16:51	17:57	20:06	21:12	22:12 05:20-05:54/34
4	09:05 10:04-10:48/44	08:21 09:24-10:14/50	07:12	06:46	05:27 06:02-06:18/16	04:30 20:59-21:24/25
	15:50	16:53	17:59	20:08	21:14	22:13 05:19-05:54/35
5	09:05 10:05-10:49/44	08:19 09:24-10:13/49	07:09	06:43	05:24 06:01-06:20/19	04:29 20:59-21:24/25
	15:51	16:56	18:01	20:10	21:16	22:14 05:19-05:54/35
6	09:04 10:05-10:50/45	08:17 09:24-10:13/49	07:06	06:40	05:22 06:00-06:21/21	04:28 20:58-21:24/26
	15:53	16:58	18:03	20:12	21:18	22:16 05:18-05:54/36
7	09:04 10:05-10:50/45	08:14 09:23-10:12/49	07:03	06:37	05:20 05:59-06:22/23	04:27 20:58-21:24/26
	15:54	17:00	18:06	20:14	21:21	22:17 05:18-05:54/36
8	09:03 10:04-10:49/45	08:12 09:24-10:12/48	07:01	06:35 07:06-07:14/8	05:17 05:58-06:23/25	04:26 20:59-21:25/26
	15:56 09:46-09:53/7	17:03	18:08	20:17	21:23	22:18 05:18-05:54/36
9	09:02 10:04-10:49/45	08:10 09:24-10:11/47	06:58	06:32 07:02-07:16/14	05:15 05:58-06:23/25	04:25 20:58-21:25/27
	15:58 09:42-09:55/13	17:05	18:10	20:19	21:25	22:19 05:17-05:54/37
10	09:01 10:04-10:49/45	08:07 09:25-10:10/45	06:55	06:29 07:00-07:18/18	05:13 05:57-06:24/27	04:24 20:59-21:26/27
	15:59 09:41-09:57/16	17:08	18:13	20:21	21:27	22:20 05:17-05:55/38
11	09:00 10:05-10:50/45	08:05 09:25-10:08/43	06:52	06:26 06:59-07:19/20	05:11 05:57-06:24/27	04:24 20:58-21:25/27
	16:01 09:41-09:59/18	17:10	18:15	20:23	21:29	22:21 05:17-05:54/37
12	08:59 10:04-10:49/45	08:03 09:26-10:06/40	06:50	06:24 06:56-07:20/24	05:08 05:57-06:24/27	04:23 20:59-21:26/27
	16:03 09:40-10:00/20	17:12	18:17	20:25	21:31	22:22 05:17-05:55/38
13	08:58 10:05-10:49/44	08:00 09:26-10:03/37	06:47	06:21 06:54-07:21/27	05:06 05:56-06:24/28	04:23 20:59-21:27/28
	16:05 09:40-10:01/21	17:15	18:19	20:28	21:33	22:23 05:17-05:55/38
14	08:57 10:05-10:33/28 09:39-10:02/23	07:58 09:26-09:55/29	06:44	06:18 06:52-07:20/28	05:04 05:56-06:24/28	04:22 20:59-21:26/27
	16:07 10:34-10:48/14	17:17	18:22	20:30	21:35	22:24 05:17-05:55/38
15	08:56 10:05-10:34/29 09:39-10:03/24	07:56 09:28-09:54/26	06:41	06:15 06:50-07:20/30	05:02 05:56-06:24/28	04:22 20:59-21:27/28
	16:09 10:37-10:47/10	17:19	18:24	20:32	21:38	22:25 05:17-05:55/38
16	08:54 10:05-10:34/29 10:39-10:45/6	07:53 09:29-09:52/23	06:39	06:13 06:50-07:20/30	05:00 05:56-06:23/27	04:22 21:00-21:27/27
	16:11 09:39-10:04/25	17:22	18:26	20:34	21:40	22:25 05:17-05:55/38
17	08:53 10:05-10:35/30	07:51 09:31-09:51/20	06:36	06:10 06:49-07:20/31	04:58 05:57-06:24/27	04:21 21:00-21:27/27
	16:13 09:38-10:04/26	17:24	18:28	20:37	21:42	22:26 05:17-05:56/39
18	08:52 09:39-10:36/57	07:48 09:33-09:48/15	06:33	06:07 06:49-07:20/31	04:56 05:35-05:42/7	04:21 21:00-21:28/28
	16:15	17:26	18:30	20:39	21:44 05:57-06:23/26	22:26 05:17-05:56/39
19	08:50 10:07-10:36/29	07:46 09:37-09:43/6	06:30	06:05 06:48-07:18/30	04:54 05:32-05:44/12	04:21 21:00-21:28/28
	16:17 09:39-10:06/27	17:29	18:33	20:41	21:46 05:57-06:23/26	22:27 05:18-05:56/38
20	08:49 09:39-10:36/57	07:43	06:27	06:02 06:47-07:17/30	04:52 05:31-05:46/15	04:21 21:00-21:28/28
	16:19	17:31	18:35	20:43	21:48 05:58-06:23/25	22:27 05:18-05:56/38
21	08:47 09:38-10:36/58	07:41	06:25	05:59 06:48-07:17/29	04:50 05:30-05:47/17	04:21 21:00-21:28/28
	16:21	17:34	18:37	20:45	21:50 05:58-06:22/24	22:27 05:18-05:56/38
22	08:46 10:08-10:36/28	07:38	06:22	05:57 06:47-07:15/28	04:49 05:28-05:48/20	04:21 21:00-21:28/28
	16:23 09:37-10:07/30	17:36	18:39	20:48	21:51 05:58-06:21/23	22:28 05:19-05:57/38
23	08:44 09:36-10:36/60	07:35	06:19	05:54 06:48-07:13/25	04:47 05:28-05:49/21	04:22 21:01-21:29/28
	16:26	17:38	18:41	20:50	21:53 05:59-06:21/22	22:28 05:19-05:57/38
24	08:42 09:34-10:36/62	07:33	06:16	05:52 06:49-07:12/23	04:45 21:05-21:13/8 05:59-06:20/21	04:22 21:01-21:29/28
	16:28	17:41	18:44	20:52	21:55 05:27-05:49/22	22:28 05:19-05:57/38
25	08:41 09:31-10:36/65	07:30	06:13	05:49 06:49-07:11/22	04:43 21:04-21:16/12 06:01-06:20/19	04:22 21:02-21:29/27
	16:30	17:43	18:46	20:54	21:57 05:27-05:50/23	22:28 05:19-05:58/39
26	08:39 09:30-10:35/65	07:28	06:11	05:46 06:50-07:10/20	04:42 21:03-21:17/14 06:02-06:19/17	04:23 21:02-21:29/27
	16:32	17:45	18:48	20:56	21:59 05:27-05:51/24	22:28 05:19-05:57/38
27	08:37 09:28-10:35/67	07:25	06:08	05:44 06:50-07:08/18	04:40 21:01-21:18/17 06:02-06:18/16	04:23 21:02-21:30/28
	16:35	17:47	18:50	20:59	22:01 05:26-05:51/25	22:28 05:20-05:58/38
28	08:35 09:28-10:12/44	07:22	06:05	05:41 06:52-07:06/14	04:39 21:01-21:19/18 06:04-06:17/13	04:24 21:02-21:29/27
	16:37 10:13-10:34/21	17:50	18:52	21:01	22:02 05:26-05:51/25	22:27 05:20-05:58/38
29	08:33 09:26-10:12/46		07:02	05:39 06:56-07:03/7	04:37 21:00-21:20/20 06:06-06:16/10	04:25 21:03-21:30/27
	16:39 10:14-10:32/18		19:55	21:03	22:04 05:26-05:52/26	22:27 05:20-05:58/38
30	08:31 09:26-10:13/47		07:00	05:36	04:36 21:00-21:21/21 06:08-06:14/6	04:25 21:03-21:30/27
	16:42 10:16-10:31/15		19:57	21:05	22:06 05:26-05:52/26	22:27 05:21-05:59/38
31	08:29 09:25-10:13/48		06:57		04:34 21:00-21:22/22	
	16:44 10:18-10:29/11		19:59		22:07 05:24-05:53/29	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1773	724	0	507	1037	1915

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

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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 21:03-21:30/27	05:15 06:07-06:34/27	06:21 06:58-07:18/20	07:25	07:34 08:54-09:40/46	08:39 09:47-10:32/45
	22:26 05:21-05:58/37	21:41	20:23	19:00	16:38	15:44 09:23-09:41/18
2	04:27 21:03-21:30/27	05:17 06:07-06:34/27	06:23 06:59-07:17/18	07:27	07:36 08:53-09:40/47	08:41 09:48-10:33/45
	22:26 05:22-05:59/37	21:39	20:21	18:57	16:36	15:42 09:24-09:40/16
3	04:28 21:04-21:30/26	05:19 06:08-06:34/26	06:25 07:00-07:14/14	07:29	07:38 08:54-09:42/48	08:43 09:48-10:33/45
	22:25 05:22-05:59/37	21:37	20:18	18:54	16:34	15:42 09:26-09:40/14
4	04:29 21:04-21:30/26	05:22 06:08-06:33/25	06:27 07:03-07:11/8	07:31	07:41 08:53-09:42/49	08:44 09:49-10:34/45
	22:24 05:23-06:00/37	21:35	20:15	18:51	16:31	15:41 09:30-09:38/8
5	04:30 21:04-21:30/26	05:24 06:08-06:32/24	06:30	07:33	07:43 08:54-09:43/49	08:46 09:50-10:35/45
	22:24 05:23-06:00/37	21:33	20:12	18:48	16:29	15:40
6	04:31 21:05-21:30/25	05:26 06:08-06:31/23	06:32	07:35	07:45 08:53-09:43/50	08:48 09:50-10:35/45
	22:23 05:24-06:00/36	21:30	20:10	18:46	16:27	15:39
7	04:32 21:05-21:30/25	05:28 06:09-06:30/21	06:34	07:38	07:48 08:54-09:44/50	08:49 09:51-10:35/44
	22:22 05:25-06:00/35	21:28	20:07	18:43	16:25	15:38
8	04:34 21:05-21:30/25	05:30 06:11-06:29/18	06:36	07:40	07:50 08:55-09:44/49	08:51 09:52-10:36/44
	22:21 05:25-06:00/35	21:26	20:04	18:40	16:22	15:38
9	04:35 21:05-21:30/25	05:32 06:12-06:27/15	06:38	07:42	07:52 08:55-09:44/49	08:52 09:53-10:37/44
	22:20 05:26-06:01/35	21:23	20:01	18:37	16:20	15:37
10	04:36 21:07-21:31/24	05:34 06:14-06:25/11	06:40	07:44	07:54 08:56-09:45/49	08:54 09:53-10:37/44
	22:19 05:28-06:01/33	21:21	19:59	18:35	16:18	15:37
11	04:38 21:07-21:30/23	05:36	06:42	07:46	07:57 08:56-09:44/48	08:55 09:54-10:38/44
	22:18 05:29-06:01/32	21:18	19:56	18:32	16:16 09:49-10:00/11	15:36
12	04:39 21:07-21:30/23	05:38	06:44	07:48	07:59 08:57-09:45/48	08:56 09:55-10:14/19
	22:16 05:30-06:01/31	21:16	19:53	18:29	16:14 09:47-10:03/16	15:36 10:15-10:38/23
13	04:41 21:07-21:29/22 06:18-06:21/3	05:41	06:46	07:51	08:01 08:58-09:44/46	08:57 09:55-10:14/19
	22:15 05:33-06:01/28	21:13	19:50	18:27	16:12 09:45-10:04/19	15:36 10:15-10:39/24
14	04:42 21:09-21:29/20 06:15-06:24/9	05:43 07:02-07:12/10	06:49	07:53	08:03 09:00-09:44/44	08:59 09:57-10:15/18
	22:14 05:35-06:01/26	21:11	19:47	18:24	16:10 09:45-10:06/21	15:35 10:16-10:40/24
15	04:44 21:09-21:28/19 06:13-06:25/12	05:45 06:59-07:14/15	06:51	07:55	08:06 09:01-10:08/67	09:00 09:58-10:15/17
	22:12 05:35-06:00/25	21:08	19:45	18:21	16:08	15:35 10:17-10:40/23
16	04:45 21:10-21:28/18 06:13-06:27/14	05:47 06:58-07:16/18	06:53	07:57	08:08 09:03-10:08/65	09:01 09:58-10:15/17
	22:11 05:36-06:01/25	21:06	19:42	18:19	16:06	15:35 10:17-10:41/24
17	04:47 21:11-21:27/16 06:11-06:28/17	05:49 06:56-07:17/21	06:55	08:00	08:10 09:05-10:10/65	09:02 09:59-10:15/16
	22:09 05:35-06:00/25	21:03	19:39	18:16	16:04	15:35 10:18-10:41/23
18	04:49 21:13-21:26/13 06:11-06:29/18	05:51 06:55-07:17/22	06:57	08:02	08:12 09:08-10:10/62	09:02 10:00-10:16/16
	22:08 05:36-06:00/24	21:01	19:36	18:13	16:02	15:35 10:18-10:42/24
19	04:50 21:14-21:24/10 06:10-06:30/20	05:53 06:54-07:18/24	06:59	08:04	08:15 09:11-10:11/60	09:03 10:00-10:15/15
	22:06 05:36-05:59/23	20:58	19:33	18:11	16:01	15:36 10:18-10:41/23
20	04:52 21:17-21:22/5 06:09-06:31/22	05:55 06:53-07:19/26	07:01	08:06	08:17 09:43-10:11/28	09:04 10:01-10:16/15
	22:05 05:37-05:59/22	20:56	19:30	18:08	15:59 09:12-09:42/30	15:36 10:19-10:42/23
21	04:54 05:39-05:59/20	05:58 06:53-07:20/27	07:03	08:09	08:19 09:14-10:12/58	09:05 10:01-10:17/16
	22:03 06:09-06:32/23	20:53	19:28	18:05	15:57	15:36 10:19-10:43/24
22	04:56 05:39-05:57/18	06:00 06:52-07:21/29	07:05	08:11	08:21 09:15-10:12/57	09:05 10:01-10:17/16
	22:01 06:08-06:32/24	20:50	19:25	18:03	15:56	15:37 10:19-10:43/24
23	04:58 05:40-05:57/17	06:02 06:52-07:22/30	07:08	08:13 10:06-10:15/9	08:23 09:16-10:12/56	09:06 10:03-10:18/15
	21:59 06:08-06:33/25	20:48	19:22	18:00	15:54	15:37 10:20-10:44/24
24	05:00 05:42-05:56/14	06:04 06:52-07:22/30	07:10	08:15 10:03-10:19/16	08:25 09:16-10:13/57	09:06 10:03-10:18/15
	21:58 06:08-06:34/26	20:45	19:19	17:58	15:53	15:38 10:21-10:44/23
25	05:01 05:43-05:53/10	06:06 06:52-07:22/30	07:12	07:18 09:00-09:21/21	08:27 09:43-10:13/30	09:06 10:03-10:19/16
	21:56 06:07-06:33/26	20:42	19:16	16:55	15:51 09:16-09:42/26	15:39 10:21-10:44/23
26	05:03 05:47-05:50/3	06:08 06:52-07:22/30	07:14	07:20 08:59-09:23/24	08:29 09:44-10:14/30 10:18-10:24/6	09:07 10:03-10:19/16
	21:54 06:07-06:34/27	20:40	19:14	16:53	15:50 09:18-09:43/25	15:39 10:21-10:45/24
27	05:05 06:07-06:34/27	06:10 06:52-07:22/30	07:16	07:22 08:57-09:24/27	08:31 09:45-10:13/28 09:18-09:42/24	09:07 10:03-10:20/17
	21:52	20:37	19:11	16:50	15:48 10:16-10:26/10	15:40 10:22-10:45/23
28	05:07 06:07-06:35/28	06:13 06:52-07:22/30	07:18	07:24 08:57-09:25/28	08:33 09:45-10:13/28 09:19-09:42/23	09:07 10:03-10:21/18
	21:50	20:34	19:08	16:48	15:47 10:14-10:28/14	15:41 10:22-10:46/24
29	05:09 06:06-06:34/28	06:15 06:53-07:21/28	07:20	07:27 08:55-09:33/38	08:35 09:45-10:13/28 09:20-09:41/21	09:07 10:04-10:22/18
	21:48	20:32	19:05	16:45	15:46 10:14-10:29/15	15:42 10:23-10:47/24
30	05:11 06:06-06:34/28	06:17 06:54-07:20/26	07:22	07:29 08:55-09:36/41	08:37 09:47-10:31/44	09:07 10:03-10:22/19
	21:46	20:29	19:02	16:43	15:45 09:22-09:42/20	15:43 10:24-10:47/23
31	05:13 06:07-06:34/27	06:19 06:55-07:19/24		07:31 08:54-09:38/44		09:07 10:04-10:23/19
	21:44	20:26		16:41		15:44 10:24-10:47/23
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	1531	667	60	248	1716	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

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Calculated:
17.09.2025 17:50/4.1.287

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 13:52-14:13/21 10:39-11:09/30 13:26-13:32/6	08:27	07:20 08:06-09:03/57	06:54 07:47-08:31/44	05:34 06:25-07:21/56	04:33 06:16-07:09/53
	15:46 10:02-10:24/22 11:29-11:58/29 12:10-12:38/28	16:46	17:52	20:01	21:08	22:09
2	09:06 13:53-14:14/21 10:39-11:09/30 13:28-13:30/2	08:25	07:17 08:06-09:02/56	06:51 07:45-08:28/43	05:31 06:23-07:22/59	04:32 06:16-07:08/52
	15:47 10:02-10:24/22 11:30-11:58/28 12:10-12:38/28	16:48	17:54	20:03	21:10	22:10
3	09:06 13:53-14:14/21 10:39-11:09/30 12:11-12:38/27	08:23	07:14 07:45-08:01/16	06:48 07:43-08:27/44	05:29 06:21-07:21/60	04:31 06:16-07:08/52
	15:48 10:02-10:24/22 11:30-11:58/28	16:51	17:57 08:06-09:01/55	20:06	21:12	22:12
4	09:05 13:54-14:14/20 10:39-11:10/31 12:11-12:38/27	08:21	07:12 07:43-08:05/22	06:46 07:42-08:27/45	05:27 06:19-07:21/62	04:30 06:17-07:07/50
	15:50 10:03-10:26/23 11:30-11:58/28	16:53	17:59 08:07-09:01/54	20:08	21:14	22:13
5	09:05 13:55-14:15/20 10:41-11:11/30 12:13-12:39/26	08:19	07:09 07:41-08:59/78	06:43 07:40-08:26/46	05:24 06:18-07:21/63	04:28 06:17-07:07/50
	15:51 10:04-10:26/22 11:32-11:59/27	16:56	18:01	20:10	21:16	22:15
6	09:04 13:56-14:15/19 10:41-11:11/30 12:14-12:39/25	08:17	07:06 07:39-08:57/78	06:40 07:39-08:24/45	05:22 06:17-07:21/64	04:27 06:17-07:06/49
	15:53 10:04-10:27/23 11:33-11:59/26	16:58	18:03	20:12	21:18	22:16
7	09:04 13:57-14:15/18 10:41-11:12/31 12:15-12:39/24	08:14	07:03 07:38-08:54/76	06:37 07:39-08:24/45	05:20 06:16-07:21/65	04:27 06:18-07:06/48
	15:54 10:04-10:27/23 11:34-11:59/25	17:00	18:06	20:14	21:21	22:17
8	09:03 13:57-14:14/17 10:42-11:12/30 12:15-12:38/23	08:12	07:01 07:37-08:10/33	06:34 07:37-08:23/46	05:17 06:16-07:21/65	04:26 06:18-07:05/47
	15:56 10:05-10:28/23 11:35-11:59/24	17:03	18:08 08:11-08:52/41	20:17	21:23	22:18
9	09:02 13:58-14:14/16 10:42-11:12/30 12:16-12:38/22	08:10	06:58 07:37-08:11/34	06:32 07:36-08:23/47	05:15 06:15-07:21/66	04:25 06:19-07:04/45
	15:58 10:04-10:27/23 11:35-11:59/24	17:05	18:10 08:13-08:53/40	20:19	21:25	22:19
10	09:01 14:00-14:14/14 10:43-11:12/29 12:17-12:38/21	08:07 08:40-08:57/17	06:55 07:36-08:11/35	06:29 07:35-08:22/47	05:13 06:14-07:20/66	04:24 06:19-07:05/46
	15:59 10:05-10:28/23 11:36-11:59/23	17:07	18:13 08:12-08:52/40	20:21	21:27	22:20
11	09:00 14:01-14:14/13 10:43-11:13/30 12:19-12:37/18	08:05 08:38-09:00/22	06:52 07:36-08:11/35	06:26 07:35-08:23/48	05:11 06:14-07:20/66	04:24 06:19-07:04/45
	16:01 10:06-10:29/23 11:37-11:59/22	17:10	18:15 08:12-08:51/39	20:23	21:29	22:21
12	08:59 14:03-14:12/9 10:44-11:12/28 12:20-12:36/16	08:03 08:37-09:03/26	06:50 07:36-08:11/35	06:24 07:35-08:23/48	05:08 06:13-07:19/66	04:23 06:20-07:04/44
	16:03 10:06-10:28/22 11:38-11:58/20	17:12	18:17 08:13-08:50/37	20:25	21:31	22:22
13	08:58 14:06-14:11/5 10:45-11:13/28 12:22-12:35/13	08:00 08:35-09:04/29	06:47 07:36-08:11/35	06:21 07:34-08:22/48	05:06 06:13-07:19/66	04:22 06:21-07:04/43
	16:05 10:07-10:29/22 11:40-11:57/17	17:15	18:19 08:13-08:48/35	20:28	21:33	22:23
14	08:57 10:07-10:29/22 11:41-11:56/15	07:58 08:35-09:05/30	06:44 07:37-08:11/34 07:23-07:33/10	06:18 07:34-08:22/48	05:04 06:12-07:18/66	04:22 06:21-07:03/42
	16:07 10:45-11:12/27 12:24-12:33/9	17:17	18:21 08:15-08:48/33	20:30	21:36	22:24
15	08:56 10:08-10:29/21 11:43-11:55/12	07:56 08:34-09:06/32	06:41 07:37-08:10/33 07:20-07:36/16	06:15 07:34-08:22/48	05:02 06:12-07:17/65	04:22 06:21-07:03/42
	16:09 10:46-11:13/27	17:19	18:24 08:15-08:46/31	20:32	21:38	22:25
16	08:54 10:08-10:29/21 11:46-11:52/6	07:53 08:33-09:07/34	06:39 07:17-08:09/52	06:13 07:34-08:22/48	05:00 06:12-07:16/64	04:21 06:22-07:02/40
	16:11 10:47-11:12/25	17:22	18:26 08:16-08:44/28	20:34	21:40	22:25
17	08:53 10:10-10:29/19	07:51 08:34-09:08/34	06:36 07:40-08:08/28 07:15-07:39/24	06:10 07:34-08:21/47	04:58 06:11-07:15/64	04:21 06:22-07:02/40
	16:13 10:48-11:13/25	17:24	18:28 08:18-08:41/23	20:37	21:42	22:26
18	08:52 10:11-10:29/18	07:48 08:33-09:08/35	06:33 07:13-08:07/54	06:07 07:33-08:20/47	04:56 06:12-07:15/63	04:21 06:23-07:02/39
	16:15 10:49-11:12/23	17:26	18:30 08:20-08:38/18	20:39	21:44	22:26
19	08:50 10:11-10:28/17	07:46 08:33-09:08/35	06:30 07:41-08:05/24 07:12-07:40/28	06:05 07:34-08:19/45	04:54 06:12-07:14/62	04:21 06:23-07:02/39
	16:17 10:50-11:11/21	17:29	18:33 08:24-08:33/9	20:41 06:56-07:08/12	21:46	22:27
20	08:49 10:13-10:27/14	07:43 08:33-09:08/35	06:27 07:42-08:04/22	06:02 07:34-08:18/44	04:52 06:11-07:13/62	04:21 06:23-07:02/39
	16:19 10:51-11:10/19	17:31	18:35 07:10-07:41/31	20:43 06:52-07:11/19	21:48	22:27
21	08:47 10:14-10:26/12	07:41 08:32-09:08/36	06:25 07:44-08:02/18	05:59 07:35-08:18/43	04:50 06:12-07:13/61	04:21 06:23-07:02/39
	16:21 10:53-11:09/16	17:33 08:14-08:26/12	18:37 07:06-07:41/35	20:45 06:49-07:14/25	21:50	22:27
22	08:46 10:16-10:24/8	07:38 08:12-09:07/55	06:22 07:46-07:58/12	05:57 07:35-08:16/41	04:48 06:12-07:12/60	04:21 06:23-07:02/39
	16:23 10:55-11:08/13	17:36	18:39 07:03-07:41/38	20:48 06:47-07:15/28	21:52	22:28
23	08:44 10:58-11:05/7	07:35 08:11-09:08/57	06:19 07:01-07:41/40	05:54 07:36-08:15/39	04:47 06:12-07:12/60	04:22 06:24-07:03/39
	16:26	17:38	18:41	20:50 06:46-07:17/31	21:53	22:28
24	08:42	07:33 08:09-09:07/58	06:16 06:59-07:40/41	05:52 07:36-08:13/37	04:45 06:12-07:11/59	04:22 06:24-07:03/39
	16:28	17:40	18:44	20:52 06:44-07:17/33	21:55	22:28
25	08:41	07:30 08:08-09:06/58	06:13 06:59-07:41/42	05:49 07:37-08:12/35	04:43 06:13-07:11/58	04:22 06:24-07:04/40
	16:30	17:43	18:46	20:54 06:43-07:18/35	21:57	22:28
26	08:39	07:28 08:07-09:05/58	06:11 06:57-07:40/43	05:46 07:39-08:11/32	04:42 06:13-07:11/58	04:23 06:24-07:04/40
	16:32	17:45	18:48	20:56 06:40-07:20/40	21:59	22:28
27	08:37	07:25 08:07-09:05/58	06:08 06:56-07:39/43	05:44 07:40-08:09/29	04:40 06:13-07:10/57	04:23 06:24-07:05/41
	16:35	17:47	18:50	20:59 06:38-07:20/42	22:01	22:28
28	08:35	07:22 08:06-09:04/58	06:05 06:55-07:38/43	05:41 07:41-08:07/26	04:39 06:14-07:10/56	04:24 06:24-07:06/42
	16:37	17:50	18:52	21:01 06:36-07:20/44	22:02	22:27
29	08:33		07:02 07:54-08:36/42	05:39 07:44-08:05/21	04:37 06:14-07:10/56	04:25 06:24-07:07/43
	16:39		19:55	21:03 06:35-07:21/46	22:04	22:27
30	08:31		06:59 07:54-08:36/42	05:36 06:29-07:21/52	04:36 06:15-07:09/54	04:25 06:25-07:08/43
	16:41		19:57	21:05 07:46-08:00/14	22:06	22:27
31	08:29		06:57 07:50-08:34/44		04:34 06:15-07:09/54	
	16:44		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1918	779	1912	1647	1903	1310

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

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Calculated:
17.09.2025 17:50/4.1.287

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 06:24-07:08/44 22:26	05:15 06:24-07:30/66 21:41	06:21 07:34-08:22/48 20:24	07:25 08:15-08:50/35 19:00 08:52-09:28/36	07:34 08:10-08:19/9 16:38 08:20-08:25/5	08:39 13:44-13:56/12 10:26-10:55/29 12:01-12:19/18 15:43 09:48-10:11/23 11:19-11:41/22
2	04:27 06:24-07:09/45 22:26	05:17 06:24-07:30/66 21:39	06:23 07:34-08:21/47 20:21	07:27 08:14-08:49/35 18:57 08:51-09:28/37	07:36 16:36	08:41 13:43-13:57/14 10:26-10:55/29 12:00-12:21/21 15:42 09:48-10:11/23 11:19-11:42/23
3	04:28 06:24-07:09/45 22:25	05:19 06:25-07:31/66 21:37	06:25 07:34-08:21/47 20:18	07:29 08:14-08:50/36 18:54 08:51-09:30/39	07:38 16:33	08:43 13:42-13:58/16 10:26-10:56/30 12:00-12:22/22 15:41 09:48-10:11/23 11:19-11:43/24
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Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	1737	1905	1539	1673	586	4246

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:
17.09.2025 17:50/4.1.287

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 12:20-12:37/17 11:46-11:58/12	08:27 09:15-09:39/24	07:20 07:47-07:58/11	06:54 07:28-07:50/22	05:34 06:24-06:56/32	04:33
	15:46 10:09-10:56/47	16:46 09:50-10:12/22	17:52	20:01	21:07	22:09
2	09:06 12:22-12:37/15 11:47-11:57/10	08:25 09:14-09:39/25	07:17 07:45-07:59/14	06:51 07:23-07:50/27	05:31 06:25-06:55/30	04:32
	15:47 10:09-10:56/47	16:48 09:50-10:11/21	17:54	20:03	21:10	22:10
3	09:06 12:23-12:37/14 11:49-11:56/7	08:23 09:14-09:39/25	07:14 07:43-08:00/17	06:48 07:20-07:49/29	05:29 06:24-06:53/29	04:31
	15:48 10:09-10:56/47	16:51 09:52-10:10/18	17:57	20:06	21:12	22:12
4	09:05 12:24-12:36/12 11:51-11:54/3	08:21 09:15-09:40/25	07:12 07:43-08:02/19	06:46 07:18-07:50/32	05:27 06:25-06:51/26	04:29
	15:50 10:09-10:56/47	16:53 09:54-10:08/14	17:59	20:08	21:14	22:13
5	09:05 12:26-12:36/10	08:19 09:15-09:39/24	07:09 07:38-08:02/24	06:43 07:16-07:49/33	05:24 06:26-06:48/22	04:28
	15:51 10:10-10:57/47	16:56 09:57-10:05/8	18:01	20:10	21:16	22:14
6	09:04 12:28-12:35/7	08:17 09:15-09:39/24	07:06 07:35-08:02/27	06:40 07:14-07:47/33	05:22 06:27-06:44/17	04:27
	15:53 10:10-10:58/48	16:58	18:03	20:12	21:18	22:16
7	09:04 10:10-10:58/48	08:14 09:16-09:38/22	07:03 07:33-08:02/29	06:37 07:14-07:47/33	05:19 06:29-06:43/14	04:27
	15:54	17:00	18:06	20:14	21:21	22:17
8	09:03 09:51-09:57/6	08:12 09:17-09:38/21	07:01 07:32-08:01/29	06:34 07:13-07:44/31	05:17 06:31-06:40/9	04:26
	15:56 10:09-10:58/49	17:03	18:08	20:17	21:23	22:18
9	09:02 09:48-09:59/11	08:10 09:17-09:37/20	06:58 07:31-08:01/30	06:32 07:12-07:42/30	05:15	04:25
	15:58 10:10-10:57/47	17:05	18:10	20:19	21:25	22:19
10	09:01 09:48-10:01/13	08:07 09:19-09:36/17	06:55 07:31-08:00/29	06:29 07:11-07:38/27	05:13	04:24
	15:59 10:10-10:57/47	17:07	18:12	20:21	21:27	22:20
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	16:01 10:10-10:58/48	17:10	18:15 07:26-07:29/3	20:23	21:29	22:21
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	16:09 10:43-10:55/12	17:19	18:24	20:32 06:46-07:02/16	21:38	22:25
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	16:11 10:45-10:54/9	17:22	18:26	20:34 06:45-07:03/18	21:40	22:25
17	08:53 09:44-10:08/24	07:51	06:36 07:03-07:48/45	06:10 07:14-07:32/18	04:58	04:21
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22	08:46 09:44-10:12/28	07:38	06:22 06:59-07:36/37	05:57 06:28-07:04/36	04:48	04:21
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	16:28 09:45-10:13/28	17:40	18:44	20:52	21:55	22:28
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	16:30 09:45-10:13/28	17:43	18:46	20:54	21:57	22:28
26	08:39 09:17-09:33/16 10:17-10:42/25	07:28	06:11 07:01-07:29/28	05:46 06:25-07:03/38	04:42	04:23
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	16:34 09:46-10:14/28	17:47	18:50 07:20-07:24/4	20:59	22:01	22:28
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	16:37 09:47-10:14/27	17:50	18:52 06:33-06:48/15	21:01	22:02	22:27
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	16:39 09:48-10:14/26		19:55	21:03	22:04	22:27
30	08:31 09:14-09:37/23 10:22-10:38/16		06:59 07:30-07:50/20	05:36 06:24-06:57/33	04:36	04:25
	16:41 09:48-10:13/25		19:57	21:05	22:06	22:27
31	08:29 09:14-09:38/24 10:25-10:36/11		06:57 07:29-07:51/22		04:34	
	16:44 09:49-10:12/23		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1924	332	932	1009	179	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

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Calculated:
17.09.2025 17:50/4.1.287

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	06:21 07:10-07:37/27	07:25 07:58-08:36/38	07:34 08:48-09:06/18	08:39 09:29-09:45/16
	22:26	21:41	20:23	19:00	16:38	15:43 09:53-10:40/47
2	04:27	05:17	06:23 07:10-07:37/27	07:27 08:01-08:37/36	07:36 08:47-09:07/20	08:41 09:31-09:44/13
	22:26	21:39	20:21	18:57	16:36	15:42 09:53-10:41/48
3	04:28	05:19	06:25 07:10-07:40/30	07:29 08:08-08:38/30	07:38 08:46-09:08/22	08:43 09:32-09:43/11
	22:25	21:37	20:18	18:54	16:33	15:41 09:54-10:41/47
4	04:29	05:21 06:43-06:47/4	06:27 07:10-07:41/31	07:31 08:08-08:38/30	07:41 08:45-09:08/23	08:44 09:35-09:42/7
	22:24	21:35	20:15	18:51	16:31	15:40 09:54-10:42/48
5	04:30	05:24 06:40-06:51/11	06:29 07:10-07:43/33	07:33 08:08-08:38/30	07:43 08:45-09:09/24	08:46 09:55-10:43/48
	22:24	21:33	20:12	18:48	16:29	15:40
6	04:31	05:26 06:38-06:52/14	06:32 07:10-07:43/33	07:35 08:09-08:38/29	07:45 08:44-09:09/25	08:48 12:14-12:19/5
	22:23	21:30	20:10	18:46	16:27 09:26-09:35/9	15:39 09:56-10:44/48
7	04:32	05:28 06:36-06:54/18	06:34 07:11-07:44/33	07:38 08:11-08:38/27	07:48 08:45-09:09/24	08:49 12:13-12:22/9
	22:22	21:28	20:07	18:43	16:24 09:24-09:38/14	15:38 09:56-10:44/48
8	04:33	05:30 06:35-06:59/24	06:36 07:12-07:44/32	07:40 08:12-08:38/26	07:50 08:45-09:10/25	08:51 12:12-12:24/12 11:40-11:41/1
	22:21	21:26	20:04	18:40	16:22 09:23-09:41/18	15:37 09:57-10:44/47
9	04:35	05:32 06:34-07:01/27	06:38 07:14-07:44/30	07:42 08:16-08:37/21	07:52 08:45-09:09/24	08:52 12:12-12:26/14 11:38-11:45/7
	22:20	21:23	20:01	18:37	16:20 09:21-09:41/20	15:37 09:58-10:45/47
10	04:36	05:34 06:34-07:03/29	06:40 07:16-07:43/27	07:44 08:17-08:35/18	07:54 08:45-09:10/25	08:54 12:11-12:26/15 11:36-11:46/10
	22:19	21:21	19:59	18:35	16:18 09:21-09:43/22	15:36 09:58-10:45/47
11	04:38	05:36 06:33-07:04/31	06:42 07:20-07:43/23	07:46 08:18-08:35/17	07:57 08:45-09:09/24 09:56-10:07/11	08:55 12:11-12:28/17 11:37-11:48/11
	22:18	21:18	19:56	18:32	16:16 09:19-09:43/24	15:36 09:59-10:46/47
12	04:39	05:38 06:33-07:05/32	06:44 07:20-07:42/22	07:48 08:19-08:32/13	07:59 08:46-09:09/23 09:54-10:10/16	08:56 12:11-12:28/17 11:36-11:49/13
	22:16	21:16	19:53	18:29	16:14 09:19-09:45/26	15:36 10:00-10:46/46
13	04:40	05:40 06:32-07:06/34	06:46 07:21-07:41/20	07:51 08:22-08:29/7	08:01 08:47-09:09/22 09:52-10:11/19	08:57 12:11-12:29/18 11:35-11:49/14
	22:15	21:13	19:50	18:27	16:12 09:19-09:46/27	15:35 10:00-10:47/47
14	04:42	05:43 06:32-07:07/35	06:48 07:21-07:40/19	07:53	08:04 08:48-09:08/20 09:51-10:13/22	08:59 12:12-12:30/18 11:36-11:51/15
	22:14	21:11	19:47	18:24	16:10 09:19-09:46/27	15:35 10:02-10:48/46
15	04:44	05:45 06:32-07:08/36	06:51 07:22-07:38/16	07:55	08:06 08:49-09:08/19 09:51-10:15/24	09:00 12:12-12:31/19 11:36-11:52/16
	22:12	21:08	19:44	18:21	16:08 09:19-09:46/27	15:35 10:02-10:48/46
16	04:45	05:47 06:32-07:09/37	06:53 07:52-08:02/10	07:57	08:08 08:50-09:06/16 09:50-10:15/25	09:01 12:12-12:32/20 11:36-11:52/16
	22:11	21:06	19:42 07:24-07:35/11	18:19	16:06 09:19-09:46/27	15:35 10:03-10:49/46
17	04:47	05:49 06:32-07:10/38	06:55 07:50-08:05/15 07:28-07:32/4	08:00	08:10 08:52-09:06/14 09:50-10:16/26	09:02 12:12-12:32/20 11:36-11:53/17
	22:09	21:03	19:39 08:06-08:17/11	18:16	16:04 09:19-09:47/28	15:35 10:03-10:49/46
18	04:49	05:51 06:32-07:10/38	06:57 07:48-08:19/31	08:02	08:12 08:53-09:04/11 09:49-10:17/28	09:02 12:12-12:33/21 11:37-11:54/17
	22:08	21:01	19:36	18:13	16:02 09:19-09:47/28	15:35 10:04-10:50/46
19	04:50	05:53 06:33-07:10/37	06:59 07:47-08:20/33	08:04	08:15 08:58-09:01/3 09:49-10:18/29	09:03 12:12-12:33/21 11:36-11:54/18
	22:06	20:58	19:33	18:11	16:01 09:20-09:47/27	15:35 10:26-10:50/24 10:04-10:24/20
20	04:52	05:55 06:33-07:10/37	07:01 07:46-08:21/35	08:06	08:17 09:19-09:47/28	09:04 12:13-12:34/21 11:37-11:55/18
	22:05	20:56	19:30	18:08	15:59 09:49-10:18/29	15:36 10:05-10:50/45
21	04:54	05:58 06:34-07:10/36	07:03 07:45-08:21/36	08:09	08:19 09:20-09:47/27	09:05 12:14-12:34/20 11:38-11:56/18
	22:03	20:53	19:28	18:05	15:57 09:49-10:19/30	15:36 10:06-10:51/45
22	04:56	06:00 06:35-07:10/35	07:05 07:44-08:21/37	08:11	08:21 09:21-09:47/26	09:05 12:14-12:34/20 11:38-11:56/18
	22:01	20:50	19:25	18:03	15:56 09:49-10:19/30	15:37 10:06-10:51/45
23	04:58	06:02 06:38-07:09/31	07:08 07:44-08:21/37	08:13	08:23 09:22-09:48/26	09:06 12:15-12:36/21 11:39-11:57/18
	21:59	20:48	19:22	18:00	15:54 09:50-10:20/30	15:37 10:07-10:52/45
24	04:59	06:04 07:21-07:32/11	07:10 07:44-08:21/37	08:15	08:25 09:22-09:47/25	09:06 12:15-12:36/21 11:39-11:57/18
	21:58	20:45 06:42-07:09/27	19:19	17:58	15:52 09:49-10:20/31	15:38 10:07-10:52/45
25	05:01	06:06 07:18-07:34/16	07:12 07:44-08:28/44	07:18	08:27 09:22-09:47/25	09:06 12:15-12:36/21 11:40-11:57/17
	21:56	20:42 06:43-07:08/25	19:16	16:55	15:51 09:49-10:20/31	15:38 10:28-10:53/25 10:07-10:27/20
26	05:03	06:08 07:16-07:35/19	07:14 07:45-08:29/44	07:20	08:29 09:24-09:47/23 09:50-10:21/31	09:07 12:16-12:36/20 11:40-11:57/17
	21:54	20:40 06:44-07:06/22	19:14	16:53	15:50 10:24-10:33/9	15:39 10:07-10:53/46
27	05:05	06:10 07:15-07:36/21	07:16 07:46-08:31/45	07:22	08:31 09:25-09:46/21 09:50-10:21/31	09:07 12:16-12:36/20 11:41-11:57/16
	21:52	20:37 06:47-07:05/18	19:11	16:50	15:48 10:23-10:34/11	15:40 10:08-10:53/45
28	05:07	06:12 07:13-07:37/24	07:18 07:48-08:32/44	07:24	08:33 09:25-09:46/21	09:07 12:17-12:37/20 11:42-11:58/16
	21:50	20:34 06:48-07:03/15	19:08	16:48	15:47 09:51-10:36/45	15:41 10:08-10:54/46
29	05:09	06:15 07:12-07:37/25	07:20 07:56-08:32/36	07:27	08:35 09:26-09:45/19	09:07 12:18-12:37/19 11:43-11:58/15
	21:48	20:32 06:50-07:01/11	19:05	16:45	15:46 09:51-10:37/46	15:42 10:08-10:55/47
30	05:11	06:17 07:12-07:37/25	07:22 07:57-08:33/36	07:29 08:52-09:02/10	08:37 09:28-09:46/18	09:07 12:19-12:38/19 11:44-11:58/14
	21:46	20:29	19:02	16:43	15:45 09:52-10:39/47	15:43 10:09-10:55/46
31	05:13	06:19 07:11-07:37/26		07:31 08:49-09:04/15		09:07 12:19-12:37/18 11:44-11:58/14
	21:44	20:26		16:40		15:44 10:08-10:55/47
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	869	949	347	1566	2303

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

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Calculated:
17.09.2025 17:50/4.1.287

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	July	August	September	October	November	December
1	09:07	08:27	07:20 07:51-08:06/15	06:54 07:58-08:11/13	05:34	04:33	04:26	05:15	06:21	07:25 08:25-08:45/20	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00 07:58-08:09/11	16:38	15:43
2	09:06	08:25	07:17 07:49-08:07/18	06:51 08:02-08:06/4	05:31	04:32	04:27	05:17	06:23	07:27 08:23-08:45/22	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 07:47-08:08/21	06:48	05:29	04:31	04:28	05:19	06:25	07:29 08:23-08:46/23	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	07:12 07:47-08:09/22	06:46	05:27	04:30	04:29	05:21	06:27	07:31 08:22-08:46/24	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 07:46-08:10/24	06:43	05:24	04:28	04:30	05:24	06:30	07:33 08:21-08:46/25	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:24	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06 07:45-08:10/25	06:40	05:22	04:27	04:31	05:26	06:32	07:35 08:21-08:46/25	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	09:04	08:14	07:03 07:44-08:09/25	06:37	05:20	04:27	04:32	05:28	06:34	07:38 08:21-08:46/25	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 07:44-08:09/25	06:34	05:17	04:26	04:34	05:30	06:36	07:40 08:21-08:45/24	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 07:45-08:09/24	06:32	05:15	04:25	04:35	05:32	06:38	07:42 08:21-08:44/23	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 08:40-08:43/3	06:55 07:45-08:09/24	06:29	05:13	04:24	04:36	05:34	06:40 07:56-07:58/2	07:44 08:21-08:43/22	07:54	08:54
	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 08:36-08:47/11	06:52 07:45-08:07/22	06:26	05:10	04:24	04:38	05:36	06:42 07:51-08:03/12	07:46 08:23-08:42/19	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 08:34-08:49/15	06:50 07:45-08:06/21	06:23	05:08	04:23	04:39	05:38	06:44 07:48-08:05/17	07:48 08:23-08:40/17	07:59	08:56
	16:03	17:12	18:17 07:20-07:28/8	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00 08:33-08:50/17	06:47 07:46-08:04/18	06:21	05:06	04:22	04:41	05:40	06:46 07:46-08:06/20	07:51 08:25-08:38/13	08:01	08:57
	16:05	17:15	18:19 07:17-07:31/14	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:35
14	08:57	07:58 08:31-08:51/20	06:44 07:48-08:03/15	06:18	05:04	04:22	04:42	05:43	06:49 07:45-08:07/22	07:53 08:29-08:34/5	08:03	08:59
	16:07	17:17	18:21 07:15-07:33/18	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56 08:31-08:52/21	06:41 07:51-08:00/9	06:15	05:02	04:22	04:44	05:45	06:51 07:44-08:13/29	07:55	08:06	09:00
	16:09	17:19	18:24 07:13-07:34/21	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53 08:30-08:52/22	06:39 07:11-07:34/23	06:13	05:00	04:21	04:45	05:47	06:53 07:43-08:15/32	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 08:31-08:53/22	06:36 07:10-07:35/25	06:10	04:58	04:21	04:47	05:49	06:55 07:43-08:17/34	08:00 09:07-09:18/11	08:10	09:02
	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 08:30-08:53/23	06:33 07:03-07:35/32	06:07	04:56	04:21	04:49	05:51	06:57 07:42-08:18/36	08:02 09:05-09:19/14	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 08:30-08:52/22	06:30 07:00-07:34/34	06:05	04:54	04:21	04:50	05:53	06:59 07:42-08:18/36	08:04 09:03-09:20/17	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 08:31-08:52/21	06:27 06:59-07:35/36	06:02	04:52	04:21	04:52	05:55	07:01 07:42-08:18/36	08:06 09:02-09:22/20	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 08:31-08:51/20	06:25 06:58-07:34/36	05:59	04:50	04:21	04:54	05:58	07:03 07:42-08:19/37	08:09 09:01-09:22/21	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38 08:31-08:50/19	06:22 06:56-07:33/37	05:57	04:48	04:21	04:56	06:00	07:05 07:42-08:19/37	08:11 09:01-09:23/22	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 08:32-08:49/17	06:19 06:55-07:32/37	05:54	04:47	04:22	04:58	06:02	07:08 07:43-08:18/35	08:13 09:00-09:22/22	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 08:34-08:48/14	06:16 06:55-07:31/36	05:52	04:45	04:22	04:59	06:04	07:10 07:44-08:18/34	08:15 09:00-09:23/23	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 08:36-08:45/9	06:13 06:54-07:29/35	05:49	04:43	04:22	05:01	06:06	07:12 07:45-08:17/32	07:18 08:00-08:22/22	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	07:28	06:11 06:54-07:29/35	05:46	04:42	04:23	05:03	06:08	07:14 07:48-08:17/29	07:20 08:01-08:22/21	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 06:54-07:27/33	05:44	04:40	04:23	05:05	06:10	07:16 07:53-08:17/24	07:22 08:01-08:21/20	08:31	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 07:54-08:03/9	06:05 06:54-07:24/30	05:41	04:39	04:24	05:07	06:13	07:18 08:34-08:38/4	07:24 08:02-08:21/19	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08 07:54-08:15/21	16:48	15:47	15:41
29	08:33		07:02 07:54-08:16/22	05:39	04:37	04:25	05:09	06:15	07:20 08:29-08:42/13	07:27 08:02-08:19/17	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05 07:55-08:14/19	16:45	15:46	15:42
30	08:31		06:59 07:56-08:16/20	05:36	04:36	04:25	05:11	06:17	07:22 08:27-08:44/17	07:29 08:04-08:18/14	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02 07:56-08:12/16	16:43	15:45	15:43
31	08:29		06:57 07:57-08:14/17		04:34		05:13	06:19		07:31 08:06-08:16/10		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
Sum of minutes with flicker	0	285	857	17	0	0	0	0	594	571	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

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Calculated:
17.09.2025 17:50/4.1.287

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

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Calculated:
17.09.2025 17:50/4.1.287

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	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	22:26	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	09:05	08:21	07:11	06:45	05:26	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	16:55	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	08:48
	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	04:26	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	04:33	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	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
	15:57	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	08:07	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	22:20	22:19	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	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	04:23	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	21:38	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	09:02
	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	09:05
	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	04:21	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	04:45	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	22:01	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	07:24	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	22:27	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		21:43	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

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SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

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 19:22-19:32/10 19:03-19:09/6	05:34 19:48-20:17/29	04:33
	15:46	16:46	17:52	20:01 17:50-18:34/44	21:07 18:48-19:11/23	22:08
2	09:06	08:25	07:17	06:51 19:20-19:34/14 18:57-19:14/17	05:31 19:47-20:15/28	04:32
	15:47	16:48	17:54	20:03 17:51-18:33/42	21:09 18:50-19:07/17	22:10
3	09:06	08:23	07:14	06:48 19:18-19:36/18 18:53-19:17/24	05:29 19:48-20:15/27	04:31
	15:48	16:51	17:56	20:05 17:51-18:31/40	21:12 18:54-19:04/10	22:11
4	09:05	08:21	07:11	06:45 18:50-19:37/47	05:26 19:48-20:15/27	04:29
	15:50	16:53	17:59	20:08 17:52-18:30/38	21:14	22:13
5	09:05	08:18	07:09	06:43 18:49-19:38/49	05:24 19:49-20:14/25	04:28
	15:51	16:55	18:01	20:10 17:53-18:29/36	21:16	22:14
6	09:04	08:16	07:06	06:40 18:47-19:38/51	05:22 19:50-20:14/24	04:27 21:28-21:32/4
	15:53	16:58	18:03	20:12 17:54-18:27/33	21:18	22:15
7	09:03	08:14	07:03	06:37 18:45-19:37/52	05:19 19:50-20:12/22	04:26 21:26-21:34/8
	15:54	17:00	18:06	20:14 17:56-18:25/29	21:20	22:17
8	09:03	08:12	07:00	06:34 18:43-19:36/53	05:17 19:51-20:11/20	04:26 21:26-21:36/10
	15:56	17:03	18:08	20:16 17:58-18:22/24	21:23	22:18
9	09:02	08:10	06:58	06:32 18:43-19:36/53	05:15 19:52-20:10/18	04:25 21:25-21:37/12
	15:57	17:05	18:10	20:19 18:01-18:20/19	21:25	22:19
10	09:01	08:07	06:55	06:29 18:41-19:35/54	05:13 19:54-20:08/14	04:24 21:25-21:38/13
	15:59	17:07	18:12	20:21 18:05-18:15/10	21:27	22:20
11	09:00	08:05	06:52	06:26 18:40-19:34/54	05:10 19:56-20:06/10	04:23 21:24-21:38/14
	16:01	17:10	18:15	20:23	21:29	22:21
12	08:59	08:03	06:50 17:10-17:25/15	06:23 18:40-19:33/53	05:08	04:23 21:24-21:40/16
	16:03	17:12	18:17	20:25	21:31	22:22
13	08:58	08:00	06:47 17:06-17:29/23	06:21 18:39-19:30/51	05:06	04:22 05:07-05:12/5
	16:05	17:14	18:19	20:27	21:33	22:23 21:23-21:40/17
14	08:57	07:58	06:44 17:03-17:31/28	06:18 18:38-19:24/46	05:04	04:22 05:06-05:13/7
	16:07	17:17	18:21	20:30	21:35	22:24 21:23-21:40/17
15	08:55	07:55	06:41 17:01-17:32/31	06:15 18:39-19:25/46	05:02	04:22 05:06-05:14/8
	16:09	17:19	18:24	20:32	21:37	22:24 21:23-21:41/18
16	08:54	07:53	06:38 16:59-17:34/35	06:12 18:38-19:24/46	05:00	04:21 05:05-05:15/10
	16:11	17:22	18:26	20:34	21:39	22:25 21:24-21:42/18
17	08:53	07:50	06:36 16:58-17:35/37	06:10 18:38-19:24/46	04:58	04:21 05:05-05:16/11
	16:13	17:24	18:28	20:36	21:41	22:26 21:24-21:42/18
18	08:51	07:48	06:33 16:56-17:36/40	06:07 18:38-19:24/46	04:56	04:21 05:05-05:16/11
	16:15	17:26	18:30	20:39	21:43	22:26 21:24-21:42/18
19	08:50	07:45	06:30 16:55-17:36/41	06:04 18:38-19:24/46	04:54	04:21 05:05-05:16/11
	16:17	17:29	18:32	20:41	21:45	22:27 21:24-21:43/19
20	08:49	07:43	06:27 16:53-17:37/44	06:02 19:58-20:10/12	04:52	04:21 05:05-05:17/12
	16:19	17:31	18:35	20:43 18:38-19:23/45	21:47	22:27 21:24-21:43/19
21	08:47	07:40	06:24 16:52-17:37/45	05:59 19:56-20:12/16	04:50	04:21 05:05-05:17/12
	16:21	17:33	18:37	20:45 18:39-19:23/44	21:49	22:27 21:24-21:43/19
22	08:45	07:38	06:22 16:52-17:38/46	05:57 19:54-20:13/19	04:48	04:21 05:05-05:17/12
	16:23	17:36	18:39	20:47 18:38-19:22/44	21:51	22:27 21:24-21:43/19
23	08:44	07:35	06:19 16:51-17:38/47	05:54 19:53-20:15/22	04:47	04:21 05:06-05:17/11
	16:25	17:38	18:41	20:50 18:39-19:21/42	21:53	22:28 21:25-21:44/19
24	08:42	07:33	06:16 16:51-17:38/47	05:51 19:51-20:15/24	04:45	04:22 05:06-05:17/11
	16:28	17:40	18:43	20:52 18:39-19:20/41	21:55	22:28 21:25-21:44/19
25	08:40	07:30	06:13 16:50-17:37/47	05:49 19:50-20:16/26	04:43	04:22 05:07-05:18/11
	16:30	17:43	18:46	20:54 18:40-19:19/39	21:57	22:28 21:25-21:43/18
26	08:39	07:27	06:10 16:49-17:37/48	05:46 19:49-20:16/27	04:42	04:23 05:07-05:17/10
	16:32	17:45	18:48	20:56 18:41-19:18/37	21:59	22:27 21:26-21:44/18
27	08:37	07:25	06:08 16:50-17:37/47	05:44 19:49-20:16/27	04:40	04:23 05:08-05:17/9
	16:34	17:47	18:50	20:58 18:42-19:17/35	22:00	22:27 21:25-21:43/18
28	08:35	07:22	06:05 16:50-17:37/47	05:41 19:49-20:17/28	04:38	04:24 05:09-05:16/7
	16:37	17:50	18:52	21:01 18:43-19:16/33	22:02	22:27 21:26-21:44/18
29	08:33		07:02 17:49-18:36/47	05:39 19:48-20:16/28	04:37	04:24 05:10-05:16/6
	16:39		19:54	21:03 18:44-19:14/30	22:04	22:27 21:27-21:44/17
30	08:31		06:59 17:49-18:35/46	05:36 19:48-20:16/28	04:36	04:25 05:11-05:14/3
	16:41		19:57	21:05 18:46-19:13/27	22:05	22:26 21:27-21:43/16
31	08:29		06:56 19:24-19:29/5		04:34	
	16:44		19:59 17:49-18:34/45		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	0	0	811	1871	294	569

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

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Calculated:
17.09.2025 17:50/4.1.287

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 20:09-20:15/6	06:21 18:40-19:33/53	07:24 17:47-18:06/19	07:33	08:39
	22:26	21:41	20:23	18:59	16:38	15:43
2	04:27 21:29-21:43/14	05:17 20:05-20:17/12	06:23 18:40-19:34/54	07:27 17:52-18:01/9	07:36	08:41
	22:25	21:39	20:21 18:04-18:14/10	18:57	16:36	15:42
3	04:28 21:30-21:42/12	05:19 20:03-20:19/16	06:25 18:41-19:34/53	07:29	07:38	08:42
	22:25	21:37	20:18 17:59-18:18/19	18:54	16:33	15:41
4	04:29 21:31-21:42/11	05:21 20:02-20:21/19	06:27 18:41-19:35/54	07:31	07:40	08:44
	22:24	21:35	20:15 17:56-18:20/24	18:51	16:31	15:40
5	04:30 21:32-21:41/9	05:23 20:01-20:22/21	06:29 18:42-19:34/52	07:33	07:43	08:46
	22:23	21:32	20:12 17:53-18:22/29	18:48	16:29	15:40
6	04:31 21:34-21:40/6	05:26 20:00-20:23/23	06:31 18:43-19:34/51	07:35	07:45	08:47
	22:22	21:30	20:09 17:51-18:23/32	18:45	16:26	15:39
7	04:32	05:28 19:59-20:23/24	06:34 18:44-19:33/49	07:37	07:47	08:49
	22:22	21:28	20:07 17:49-18:24/35	18:43	16:24	15:38
8	04:33	05:30 19:58-20:24/26	06:36 18:45-19:33/48	07:40	07:50	08:50
	22:21	21:25	20:04 17:47-18:25/38	18:40	16:22	15:37
9	04:35	05:32 19:58-20:24/26	06:38 19:12-19:30/18 18:47-19:11/24	07:42	07:52	08:52
	22:20	21:23	20:01 17:45-18:25/40	18:37	16:20	15:37
10	04:36	05:34 19:57-20:25/28	06:40 19:13-19:27/14 18:49-19:08/19	07:44	07:54	08:53
	22:19	21:21 19:02-19:14/12	19:58 17:44-18:26/42	18:35	16:18	15:36
11	04:37	05:36 19:57-20:25/28	06:42 19:14-19:25/11 18:54-19:02/8	07:46	07:56	08:55
	22:17	21:18 18:59-19:18/19	19:56 17:43-18:26/43	18:32	16:16	15:36
12	04:39	05:38 19:57-20:25/28	06:44 19:15-19:22/7	07:48	07:59	08:56
	22:16	21:16 18:56-19:20/24	19:53 17:42-18:26/44	18:29	16:14	15:36
13	04:40	05:40 19:56-20:25/29	06:46 17:41-18:26/45	07:50	08:01	08:57
	22:15	21:13 18:54-19:21/27	19:50	18:26	16:12	15:35
14	04:42	05:42 19:56-20:25/29	06:48 17:40-18:26/46	07:53	08:03	08:58
	22:14	21:11 18:52-19:23/31	19:47	18:24	16:10	15:35
15	04:44	05:45 19:56-20:24/28	06:50 17:39-18:26/47	07:55	08:06	08:59
	22:12	21:08 18:51-19:24/33	19:44	18:21	16:08	15:35
16	04:45	05:47 19:55-20:23/28	06:53 17:39-18:26/47	07:57	08:08	09:00
	22:11	21:06 18:49-19:25/36	19:41	18:18	16:06	15:35
17	04:47	05:49 19:56-20:22/26	06:55 17:38-18:25/47	07:59	08:10	09:01
	22:09	21:03 18:48-19:26/38	19:39	18:16	16:04	15:35
18	04:48	05:51 19:56-20:21/25	06:57 17:38-18:25/47	08:02	08:12	09:02
	22:08	21:01 18:46-19:25/39	19:36	18:13	16:02	15:35
19	04:50	05:53 19:57-20:20/23	06:59 17:37-18:24/47	08:04	08:14	09:03
	22:06	20:58 18:45-19:26/41	19:33	18:10	16:00	15:35
20	04:52	05:55 19:57-20:19/22	07:01 17:37-18:24/47	08:06	08:17	09:04
	22:04	20:55 18:44-19:26/42	19:30	18:08	15:59	15:36
21	04:54	05:57 19:58-20:18/20	07:03 17:38-18:24/46	08:08	08:19	09:04
	22:03	20:53 18:43-19:26/43	19:27	18:05	15:57	15:36
22	04:56	06:00 20:00-20:16/16	07:05 17:38-18:23/45	08:11	08:21	09:05
	22:01	20:50 18:42-19:27/45	19:25	18:03	15:55	15:36
23	04:57	06:02 20:02-20:13/11	07:07 17:38-18:22/44	08:13	08:23	09:05
	21:59	20:48 18:42-19:27/45	19:22	18:00	15:54	15:37
24	04:59	06:04 18:41-19:27/46	07:09 17:38-18:20/42	08:15	08:25	09:06
	21:57	20:45	19:19	17:58	15:52	15:38
25	05:01	06:06 18:40-19:26/46	07:12 17:39-18:19/40	07:17	08:27	09:06
	21:55	20:42	19:16	16:55	15:51	15:38
26	05:03	06:08 18:40-19:26/46	07:14 17:39-18:18/39	07:20	08:29	09:06
	21:53	20:40	19:13	16:53	15:49	15:39
27	05:05	06:10 18:40-19:26/46	07:16 17:40-18:16/36	07:22	08:31	09:07
	21:52	20:37	19:11	16:50	15:48	15:40
28	05:07	06:12 18:40-19:27/47	07:18 17:41-18:14/33	07:24	08:33	09:07
	21:50	20:34	19:08	16:48	15:47	15:41
29	05:09	06:14 18:40-19:26/46	07:20 17:43-18:12/29	07:27	08:35	09:07
	21:47	20:31	19:05	16:45	15:46	15:42
30	05:11	06:17 18:40-19:30/50	07:22 17:45-18:10/25	07:29	08:37	09:07
	21:45	20:29	19:02	16:43	15:44	15:43
31	05:13	06:19 18:40-19:32/52		07:31		09:07
	21:43	20:26		16:40		15:44
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	67	1368	1623	28	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

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Calculated:
17.09.2025 17:50/4.1.287

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	July	August	September	October	November	December
1	09:06	08:27 15:09-15:51/42	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39 14:52-14:59/7
	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 15:11-15:51/40	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36 15:05-15:15/10	08:41 14:55-14:56/1
	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 15:13-15:52/39	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38 15:02-15:16/14	08:42
	15:48	16:51	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 15:28-15:51/23	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40 15:01-15:18/17	08:44
	15:49	16:53 15:14-15:26/12	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 15:29-15:50/21	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43 15:00-15:20/20	08:46
	15:51	16:55 15:18-15:24/6	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 15:30-15:49/19	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45 14:59-15:20/21	08:47
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26 14:47-14:54/7	15:39
7	09:03	08:14 15:32-15:49/17	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:37	07:47 14:59-15:21/22	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24 14:45-14:57/12	15:38
8	09:03	08:12 15:33-15:47/14	07:00	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50 14:42-15:21/39	08:51
	15:56	17:03	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 15:36-15:45/9	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52 14:42-15:22/40	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54 14:40-15:22/42	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 15:10-15:17/7	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56 14:40-15:22/42	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 15:09-15:19/10	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59 14:40-15:23/43	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 15:08-15:22/14	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01 14:39-15:22/43	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 15:07-15:23/16	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03 14:39-15:23/44	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 15:06-15:24/18	07:55	06:41	06:15	05:02	04:22	04:43	05:45	06:50	07:55	08:06 14:39-15:22/43	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 15:06-15:26/20	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08 14:39-15:22/43	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 15:06-15:26/20	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10 14:39-15:21/42	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 15:05-15:27/22	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12 14:40-15:21/41	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 15:06-15:29/23	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14 14:39-15:20/41	09:03
	16:17	17:29	18:32	20:41	21:45	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49 15:32-15:38/6	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17 14:40-15:18/38	09:04
	16:19 15:06-15:29/23	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 15:05-15:41/36	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19 14:40-15:16/36	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 15:05-15:43/38	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21 15:08-15:15/7	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:55 14:42-15:05/23	15:36
23	08:44 15:05-15:46/41	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23 14:42-15:05/23	09:05
	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 15:06-15:47/41	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25 14:43-15:05/22	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 15:06-15:48/42	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27 14:44-15:05/21	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	08:39 15:06-15:49/43	07:27	06:10	05:46	04:41	04:23	05:03	06:08	07:14	07:20	08:29 14:44-15:04/20	09:06
	16:32	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 15:07-15:50/43	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31 14:46-15:04/18	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 15:06-15:50/44	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33 14:47-15:03/16	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 15:07-15:51/44		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35 14:48-15:02/14	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:46	15:42
30	08:31 15:08-15:51/43		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37 14:50-15:01/11	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 15:09-15:52/43		06:56		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	637	242	0	0	0	0	0	0	0	0	875	8

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

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Calculated:
17.09.2025 17:50/4.1.287

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 11:46-14:09/143	08:27 12:02-12:38/36	07:20 08:05-08:33/28	06:54	05:34	04:33
	15:45 10:12-10:36/24	16:46 12:52-13:07/15	17:52	20:01	21:07	22:09
2	09:06 11:47-13:11/84 10:12-10:36/24	08:25 12:02-12:37/35	07:17 08:05-08:32/27	06:51	05:31	04:32
	15:47 13:12-14:10/58	16:48 12:58-13:00/2	17:54	20:03	21:10	22:10
3	09:06 11:47-13:11/84 10:12-10:36/24	08:23 12:04-12:36/32	07:14 08:06-08:31/25	06:48	05:29	04:30
	15:48 13:12-14:10/58	16:51	17:56	20:06	21:12	22:12
4	09:05 11:47-13:11/84 09:48-09:51/3	08:21 12:05-12:34/29	07:11 08:08-08:31/23	06:45	05:26	04:29
	15:49 13:12-14:10/58 10:13-10:37/24	16:53	17:59	20:08	21:14	22:13
5	09:05 11:47-14:11/144 10:14-10:38/24	08:19 12:08-12:32/24	07:09 08:10-08:29/19	06:43	05:24	04:28
	15:51 09:47-09:54/7	16:55	18:01	20:10	21:16	22:14
6	09:04 11:49-13:13/84 09:46-09:56/10	08:16 12:11-12:30/19	07:06 08:12-08:27/15	06:40	05:22	04:27
	15:52 13:14-14:12/58 10:14-10:38/24	16:58	18:03	20:12	21:18	22:16
7	09:04 11:49-14:12/143 10:15-10:39/24	08:14 12:16-12:24/8	07:03 08:15-08:23/8	06:37	05:19	04:26
	15:54 09:46-09:58/12	17:00	18:06	20:14	21:21	22:17
8	09:03 11:48-13:13/85 09:45-09:59/14	08:12	07:01	06:34	05:17	04:25
	15:56 13:14-14:12/58 10:15-10:39/24	17:03	18:08	20:17	21:23	22:18
9	09:02 11:49-14:12/143 10:15-10:39/24	08:10	06:58	06:32	05:15	04:25
	15:57 09:44-09:59/15	17:05	18:10	20:19	21:25	22:19
10	09:01 11:49-14:13/144 10:16-10:39/23	08:07	06:55	06:29	05:13	04:24
	15:59 09:44-10:01/17	17:07	18:12	20:21	21:27	22:20
11	09:00 11:50-13:15/85 09:44-10:02/18	08:05	06:52	06:26	05:10	04:23
	16:01 13:16-14:13/57 10:17-10:40/23	17:10	18:15	20:23	21:29	22:21
12	08:59 11:50-13:15/85 09:43-10:02/19	08:03	06:50	06:23	05:08	04:23
	16:03 13:16-14:13/57 10:17-10:39/22	17:12	18:17	20:25	21:31	22:22
13	08:58 11:50-13:16/86 09:44-10:04/20	08:00	06:47	06:21	05:06	04:22
	16:05 13:17-14:13/56 10:18-10:40/22	17:14	18:19	20:28	21:33	22:23
14	08:57 11:50-13:16/86 09:43-10:04/21	07:58	06:44	06:18	05:04	04:22
	16:07 13:17-14:13/56 10:18-10:39/21	17:17	18:21	20:30	21:35	22:24
15	08:56 11:51-13:16/85 09:43-10:05/22	07:55	06:41	06:15	05:02	04:21
	16:09 13:18-14:14/56 10:20-10:40/20	17:19	18:24	20:32	21:38	22:25
16	08:54 11:51-13:16/85 09:43-10:06/23	07:53	06:39	06:13	05:00	04:21
	16:11 13:19-14:13/54 10:20-10:39/19	17:22	18:26	20:34	21:40	22:25
17	08:53 11:51-13:16/85 09:43-10:06/23	07:51	06:36	06:10	04:58	04:21
	16:13 13:19-14:13/54 10:21-10:38/17	17:24	18:28	20:36	21:42	22:26
18	08:52 11:52-13:17/85 09:44-10:07/23	07:48	06:33	06:07	04:56	04:21
	16:15 13:21-14:13/52 10:23-10:39/16	17:26	18:30	20:39	21:44	22:26
19	08:50 11:52-13:17/85 09:44-10:08/24	07:46 08:19-08:25/6	06:30	06:04	04:54	04:21
	16:17 13:21-14:13/52 10:24-10:37/13	17:29	18:32	20:41	21:46	22:27
20	08:49 11:52-13:17/85 09:44-10:08/24	07:43 08:12-08:29/17	06:27	06:02	04:52	04:21
	16:19 13:22-14:12/50 10:26-10:36/10	17:31	18:35	20:43	21:48	22:27
21	08:47 11:53-13:17/84 09:44-10:08/24 13:51-14:11/20	07:40 08:09-08:30/21	06:25	05:59	04:50	04:21
	16:21 13:23-13:50/27 10:29-10:33/4	17:33	18:37	20:45	21:50	22:27
22	08:46 11:53-13:16/83 09:44-10:08/24	07:38 08:07-08:31/24	06:22	05:57	04:48	04:21
	16:23 13:24-13:50/26 13:53-14:10/17	17:36	18:39	20:48	21:51	22:28
23	08:44 11:54-13:16/82 09:45-10:08/23	07:35 08:06-08:32/26	06:19	05:54	04:46	04:21
	16:25 13:26-13:49/23 13:55-14:08/13	17:38	18:41	20:50	21:53	22:28
24	08:42 11:54-13:16/82 09:45-10:08/23	07:33 08:06-08:33/27	06:16	05:51	04:45	04:22
	16:28 13:28-13:48/20 13:58-14:05/7	17:40	18:44	20:52	21:55	22:28
25	08:40 11:55-13:16/81 09:46-10:08/22	07:30 08:05-08:33/28	06:13	05:49	04:43	04:22
	16:30 13:30-13:46/16	17:43	18:46	20:54	21:57	22:28
26	08:39 11:56-13:15/79 09:47-10:08/21	07:27 08:04-08:33/29	06:11	05:46	04:41	04:22
	16:32 13:33-13:44/11	17:45	18:48	20:56	21:59	22:28
27	08:37 11:57-12:41/44 09:48-10:08/20	07:25 08:04-08:33/29	06:08	05:44	04:40	04:23
	16:34 12:42-13:15/33	17:47	18:50	20:59	22:01	22:28
28	08:35 11:57-12:41/44 09:49-10:08/19	07:22 08:05-08:34/29	06:05	05:41	04:38	04:24
	16:37 12:43-13:14/31	17:50	18:52	21:01	22:02	22:27
29	08:33 11:58-12:40/42 09:49-10:06/17		07:02	05:39	04:37	04:24
	16:39 12:44-13:12/28		19:55	21:03	22:04	22:27
30	08:31 11:59-12:39/40 09:51-10:05/14		06:59	05:36	04:35	04:25
	16:41 12:46-13:11/25		19:57	21:05	22:06	22:27
31	08:29 12:00-12:39/39 09:53-10:04/11		06:57		04:34	
	16:44 12:48-13:09/21		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	4781	436	145	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

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Calculated:
17.09.2025 17:50/4.1.287

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	08:39 11:32-12:57/85 09:26-09:44/18
	22:26	21:41	20:23	18:59	16:38	15:43 12:58-13:55/57 09:59-10:22/23
2	04:27	05:17	06:23	07:27	07:36	08:41 11:32-13:56/144 09:59-10:22/23
	22:26	21:39	20:21	18:57	16:36	15:42 09:27-09:44/17
3	04:28	05:19	06:25	07:29	07:38	08:43 11:33-13:56/143 09:59-10:23/24
	22:25	21:37	20:18	18:54	16:33	15:41 09:28-09:43/15
4	04:29	05:21	06:27	07:31	07:41 11:44-11:55/11	08:44 11:33-12:58/85 09:29-09:43/14
	22:24	21:35	20:15	18:51	16:31	15:40 12:59-13:57/58 09:59-10:23/24
5	04:30	05:23	06:29	07:33	07:43 11:41-12:00/19	08:46 11:34-13:57/143 10:00-10:24/24
	22:24	21:32	20:12	18:48	16:29	15:39 09:31-09:43/12
6	04:31	05:25	06:31	07:35	07:45 11:37-12:02/25	08:48 11:34-12:58/84 09:32-09:42/10
	22:23	21:30	20:10	18:46	16:26	15:39 12:59-13:57/58 10:00-10:25/25
7	04:32	05:28	06:34	07:37 08:49-09:00/11	07:47 11:36-12:05/29	08:49 11:35-13:58/143 10:00-10:24/24
	22:22	21:28	20:07	18:43	16:24	15:38 09:33-09:41/8
8	04:33	05:30	06:36	07:40 08:47-09:03/16	07:50 11:35-12:07/32	08:51 11:35-12:59/84 09:36-09:39/3
	22:21	21:25	20:04	18:40	16:22	15:37 13:00-13:58/58 10:01-10:25/24
9	04:35	05:32	06:38	07:42 08:43-09:04/21	07:52 11:33-12:08/35	08:52 11:36-13:00/84 10:01-10:26/25
	22:20	21:23	20:01	18:37	16:20 12:27-12:32/5	15:37 13:01-13:59/58
10	04:36	05:34	06:40	07:44 08:41-09:05/24	07:54 11:32-12:09/37 09:29-09:31/2	08:54 11:36-13:00/84 10:01-10:25/24
	22:19	21:21	19:58	18:35	16:18 12:22-12:38/16	15:36 13:01-13:59/58
11	04:37	05:36	06:42	07:46 08:40-09:06/26	07:57 11:31-12:10/39 09:24-09:35/11	08:55 11:38-13:01/83 10:02-10:26/24
	22:18	21:18	19:56	18:32	16:16 12:19-12:40/21	15:36 13:02-14:00/58
12	04:39	05:38	06:44	07:48 08:39-09:06/27	07:59 11:30-12:11/41 09:23-09:37/14	08:56 11:38-13:01/83 10:02-10:26/24
	22:16	21:16	19:53	18:29	16:14 12:18-12:43/25	15:35 13:02-14:00/58
13	04:40	05:40	06:46	07:51 08:38-09:06/28	08:01 11:29-12:12/43 09:21-09:38/17	08:57 11:38-13:01/83 10:03-10:26/23
	22:15	21:13	19:50	18:26	16:12 12:16-12:44/28	15:35 13:02-14:00/58
14	04:42	05:42	06:48	07:53 08:38-09:07/29	08:03 11:29-12:13/44 09:21-09:40/19	08:59 11:39-13:02/83 10:04-10:28/24
	22:14	21:11	19:47	18:24	16:10 12:15-12:46/31	15:35 13:03-14:01/58
15	04:43	05:45	06:50	07:55 08:37-09:06/29	08:06 11:28-12:13/45 09:21-09:41/20	09:00 11:40-13:02/82 10:04-10:28/24
	22:12	21:08	19:44	18:21	16:08 12:14-12:47/33	15:35 13:03-14:01/58
16	04:45	05:47	06:53	07:57 08:37-09:05/28	08:08 11:29-12:48/79 09:20-09:41/21	09:01 11:40-13:03/83 10:05-10:28/23
	22:11	21:06	19:42	18:18	16:06 13:06-13:17/11	15:35 13:04-14:02/58
17	04:47	05:49	06:55	07:59 08:37-09:05/28	08:10 11:29-12:50/81 09:20-09:42/22	09:02 11:41-13:03/82 10:05-10:29/24
	22:09	21:03	19:39	18:16	16:04 13:04-13:20/16	15:35 13:04-14:02/58
18	04:48	05:51	06:57	08:02 08:37-09:04/27	08:12 11:28-12:50/82 09:19-09:42/23	09:02 11:41-13:03/82 10:06-10:29/23
	22:08	21:01	19:36	18:13	16:02 13:01-13:22/21 13:32-13:39/7	15:35 13:05-14:03/58
19	04:50	05:53	06:59	08:04 08:37-09:03/26	08:15 11:29-12:51/82 09:20-09:43/23	09:03 11:41-13:03/82 10:05-10:29/24
	22:06	20:58	19:33	18:11	16:00 13:01-13:24/23 13:30-13:43/13	15:35 13:05-14:03/58
20	04:52	05:55	07:01	08:06 08:39-09:02/23	08:17 11:28-12:51/83 09:19-09:43/24	09:04 11:42-13:04/82 10:06-10:30/24
	22:05	20:56	19:30	18:08	15:59 12:59-13:25/26 13:28-13:45/17	15:36 13:05-14:03/58
21	04:54	05:57	07:03	08:08 08:40-09:00/20	08:19 11:29-12:53/84 09:20-09:44/24 13:27-13:47/20	09:05 11:43-13:05/82 10:07-10:30/23
	22:03	20:53	19:27	18:05	15:57 12:59-13:26/27 10:06-10:09/3	15:36 13:06-14:04/58
22	04:56	06:00	07:05	08:11 08:43-08:58/15	08:21 11:29-12:53/84 09:20-09:44/24	09:05 11:43-13:05/82 10:07-10:30/23
	22:01	20:50	19:25	18:03	15:55 12:58-13:48/50 10:02-10:12/10	15:36 13:06-14:04/58
23	04:57	06:02	07:07	08:13	08:23 11:28-12:53/85 09:21-09:45/24	09:06 11:44-13:06/82 10:08-10:31/23
	21:59	20:48	19:22	18:00	15:54 12:57-13:49/52 10:01-10:15/14	15:37 13:07-14:05/58
24	04:59	06:04	07:10	08:15	08:25 11:29-12:54/85 09:21-09:44/23	09:06 11:44-13:06/82 10:08-10:32/24
	21:58	20:45	19:19	17:58	15:52 12:58-13:50/52 10:00-10:16/16	15:38 13:08-14:05/57
25	05:01	06:06	07:12	07:18	08:27 11:29-12:54/85 09:21-09:44/23	09:06 11:44-13:06/82 10:09-10:32/23
	21:56	20:42	19:16	16:55	15:51 12:57-13:51/54 09:59-10:16/17	15:38 13:08-14:06/58
26	05:03	06:08	07:14	07:20	08:29 11:30-12:55/85 09:22-09:45/23	09:07 11:45-13:07/82 10:09-10:32/23
	21:54	20:40	19:13	16:53	15:49 12:58-13:52/54 09:59-10:18/19	15:39 13:08-14:06/58
27	05:05	06:10	07:16	07:22	08:31 11:30-12:56/86 09:23-09:44/21	09:07 11:45-13:07/82 10:09-10:33/24
	21:52	20:37	19:11	16:50	15:48 12:57-13:53/56 09:59-10:19/20	15:40 13:09-14:07/58
28	05:07	06:12	07:18	07:24	08:33 11:30-12:56/86 09:23-09:44/21	09:07 11:46-13:08/82 10:10-10:34/24
	21:50	20:34	19:08	16:48	15:47 12:57-13:53/56 09:58-10:19/21	15:41 13:09-14:07/58
29	05:09	06:14	07:20	07:27	08:35 11:30-12:56/86 09:24-09:44/20	09:07 11:46-13:09/83 10:11-10:34/23
	21:48	20:32	19:05	16:45	15:46 12:57-13:54/57 09:58-10:20/22	15:42 13:10-14:08/58
30	05:11	06:17	07:22	07:29	08:37 11:31-12:56/85 09:25-09:44/19	09:07 11:46-13:08/82 10:11-10:35/24
	21:46	20:29	19:02	16:43	15:44 12:57-13:54/57 09:59-10:21/22	15:43 13:10-14:08/58
31	05:13	06:19		07:31		09:07 11:46-13:09/83 10:11-10:35/24
	21:44	20:26		16:40		15:44 13:10-14:09/59
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	0	378	3068	5205

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

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17.09.2025 17:50/4.1.287

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	10:37-11:37/60	08:27	07:19		06:54	05:34	04:33
	15:45	11:55-12:08/13	16:46	17:52		20:01	21:07	22:09
2	09:06	10:38-11:37/59	08:25	07:17		06:51	05:31	04:32
	15:47	11:57-12:08/11	16:48	17:54		20:03	21:10	22:10
3	09:06	10:39-11:37/58	08:23	07:14		06:48	05:29	04:30
	15:48	11:59-12:07/8	16:51	17:56		20:05	21:12	22:12
4	09:05	10:39-11:37/58	08:21	07:11		06:45	05:26	04:29
	15:49	12:01-12:06/5	16:53	17:59		20:08	21:14	22:13
5	09:05	10:39-11:10/31	08:19	07:09		06:43	05:24	04:28
	15:51	11:11-11:37/26	16:55	18:01		20:10	21:16	22:14
6	09:04	10:41-11:11/30	08:16	07:06		06:40	05:22	04:27
	15:52	11:13-11:38/25	16:58	18:03		20:12	21:18	22:16
7	09:03	10:41-11:12/31	08:14	07:03		06:37	05:19	04:26
	15:54	11:13-11:39/26	17:00	18:06		20:14	21:21	22:17
8	09:03	10:41-11:11/30	08:12	07:01		06:34	05:17	04:25
	15:56	11:13-11:38/25	17:03	18:08		20:17	21:23	22:18
9	09:02	10:41-11:12/31	08:10	06:58		06:32	05:15	04:25
	15:57	11:14-11:38/24	17:05	18:10		20:19	21:25	22:19
10	09:01	10:42-11:12/30	08:07	06:55		06:29	05:13	04:24
	15:59	11:16-11:38/22	17:07	18:12		20:21	21:27	22:20
11	09:00	10:43-11:13/30	08:05	06:52		06:26	05:10	04:23
	16:01	11:17-11:38/21	17:10	18:15		20:23	21:29	22:21
12	08:59	10:43-11:12/29	08:03	06:50		06:23	05:08	04:23
	16:03	11:18-11:37/19	17:12	18:17		20:25	21:31	22:22
13	08:58	10:44-11:13/29	08:00	06:47		06:21	05:06	04:22
	16:05	11:19-11:37/18	17:14	18:19		20:28	21:33	22:23
14	08:57	10:44-11:12/28	07:58	06:44		06:18	05:04	04:22
	16:07	11:21-11:35/14	17:17	18:21		20:30	21:35	22:24
15	08:56	10:46-11:13/27	07:55	06:41	17:47-17:54/7	06:15	05:02	04:21
	16:09	11:23-11:34/11	17:19	18:24		20:32	21:37	22:25
16	08:54	10:46-11:12/26	07:53	06:38	17:45-17:57/12	06:12	05:00	04:21
	16:10	11:26-11:31/5	17:22	18:26		20:34	21:40	22:25
17	08:53	10:47-11:12/25	07:50	06:36	17:43-17:59/16	06:10	04:58	04:21
	16:13		17:24	18:28		20:36	21:42	22:26
18	08:52	10:49-11:12/23	07:48	06:33	17:42-18:01/19	06:07	04:56	04:21
	16:15		17:26	18:30		20:39	21:44	22:26
19	08:50	10:50-11:11/21	07:45	06:30	17:41-18:02/21	06:04	04:54	04:21
	16:17		17:29	18:32		20:41	21:46	22:27
20	08:49	10:51-11:11/20	07:43	06:27	17:40-18:02/22	06:02	04:52	04:21
	16:19		17:31	18:35		20:43	21:48	22:27
21	08:47	10:52-11:09/17	07:40	06:25	17:39-18:01/22	05:59	04:50	04:21
	16:21		17:33	18:37		20:45	21:49	22:27
22	08:46	10:54-11:08/14	07:38	06:22	17:40-18:02/22	05:57	04:48	04:21
	16:23		17:36	18:39		20:47	21:51	22:28
23	08:44	10:57-11:05/8	07:35	06:19	17:40-18:01/21	05:54	04:46	04:21
	16:25		17:38	18:41		20:50	21:53	22:28
24	08:42		07:33	06:16	17:40-18:00/20	05:51	04:45	04:22
	16:28		17:40	18:43		20:52	21:55	22:28
25	08:40		07:30	06:13	17:41-17:58/17	05:49	04:43	04:22
	16:30		17:43	18:46		20:54	21:57	22:28
26	08:39		07:27	06:11	17:41-17:56/15	05:46	04:41	04:23
	16:32		17:45	18:48		20:56	21:59	22:28
27	08:37		07:25	06:08	17:44-17:55/11	05:44	04:40	04:23
	16:34		17:47	18:50		20:59	22:00	22:27
28	08:35		07:22	06:05		05:41	04:38	04:24
	16:37		17:50	18:52		21:01	22:02	22:27
29	08:33			07:02		05:39	04:37	04:24
	16:39			19:54		21:03	22:04	22:27
30	08:31			06:59		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		988	0		225	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

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Calculated:
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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 10:25-10:55/30
	22:26	21:41	20:23	18:59	16:38	15:43 10:59-11:20/21
2	04:27	05:17	06:23	07:27	07:36	08:41 10:25-10:55/30
	22:26	21:39	20:21	18:57	16:36	15:42 10:59-11:21/22
3	04:28	05:19	06:25	07:29	07:38	08:43 10:25-10:56/31
	22:25	21:37	20:18	18:54	16:33	15:41 10:59-11:22/23
4	04:29	05:21	06:27	07:31	07:40	08:44 10:26-10:56/30
	22:24	21:35	20:15	18:51	16:31	15:40 10:59-11:23/24
5	04:30	05:23	06:29	07:33	07:43	08:46 10:26-10:57/31
	22:23	21:32	20:12	18:48	16:29	15:39 10:59-11:24/25
6	04:31	05:25	06:31	07:35	07:45	08:48 10:26-10:57/31
	22:23	21:30	20:10	18:46	16:26	15:39 10:58-11:24/26
7	04:32	05:28	06:34	07:37	07:47	08:49 10:26-10:57/31
	22:22	21:28	20:07	18:43	16:24	15:38 10:58-11:24/26
8	04:33	05:30	06:36	07:40	07:50	08:51 10:27-10:58/31 10:59-11:25/26
	22:21	21:25	20:04	18:40	16:22	15:37 11:49-11:54/5
9	04:35	05:32	06:38	07:42	07:52	08:52 10:28-11:26/58
	22:20	21:23	20:01	18:37	16:20	15:37 11:48-11:56/8
10	04:36	05:34	06:40	07:44	07:54	08:53 10:28-11:27/59
	22:19	21:21	19:58	18:35	16:18	15:36 11:47-11:57/10
11	04:37	05:36	06:42	07:46	07:57	08:55 10:28-11:28/60
	22:18	21:18	19:56	18:32	16:16	15:36 11:47-11:59/12
12	04:39	05:38	06:44	07:48	07:59	08:56 10:29-11:28/59
	22:16	21:16	19:53	18:29	16:14	15:35 11:46-12:00/14
13	04:40	05:40	06:46	07:51	08:01	08:57 10:29-11:28/59
	22:15	21:13	19:50	18:26	16:12	15:35 11:46-12:01/15
14	04:42	05:42	06:48	07:53	08:03	08:58 10:30-11:29/59
	22:14	21:11	19:47	18:24	16:10	15:35 11:46-12:02/16
15	04:43	05:45	06:50	07:55	08:06	09:00 10:30-11:30/60
	22:12	21:08	19:44	18:21	16:08	15:35 11:46-12:03/17
16	04:45	05:47	06:53 18:33-18:43/10	07:57	08:08	09:01 10:31-11:30/59
	22:11	21:06	19:42	18:18	16:06	15:35 11:46-12:04/18
17	04:47	05:49	06:55 18:30-18:44/14	07:59	08:10	09:01 10:31-11:31/60
	22:09	21:03	19:39	18:16	16:04	15:35 11:47-12:04/17
18	04:48	05:51	06:57 18:28-18:45/17	08:02	08:12	09:02 10:32-11:31/59
	22:08	21:01	19:36	18:13	16:02	15:35 11:47-12:05/18
19	04:50	05:53	06:59 18:27-18:46/19	08:04	08:15 10:32-10:40/8	09:03 10:31-11:31/60
	22:06	20:58	19:33	18:10	16:00	15:35 11:47-12:05/18
20	04:52	05:55	07:01 18:26-18:46/20	08:06	08:17 10:29-10:43/14	09:04 10:32-11:32/60
	22:05	20:56	19:30	18:08	15:59	15:36 11:47-12:06/19
21	04:54	05:57	07:03 18:26-18:47/21	08:08	08:19 10:28-10:45/17	09:05 10:33-11:33/60
	22:03	20:53	19:27	18:05	15:57	15:36 11:48-12:07/19
22	04:56	06:00	07:05 18:25-18:47/22	08:11	08:21 10:27-10:47/20	09:05 10:33-11:33/60
	22:01	20:50	19:25	18:03	15:55	15:36 11:48-12:07/19
23	04:57	06:02	07:07 18:25-18:46/21	08:13	08:23 10:26-10:47/21	09:06 10:34-11:34/60
	21:59	20:48	19:22	18:00	15:54	15:37 11:49-12:08/19
24	04:59	06:04	07:09 18:24-18:46/22	08:15	08:25 10:26-10:49/23	09:06 10:34-11:34/60
	21:57	20:45	19:19	17:58	15:52	15:38 11:50-12:08/18
25	05:01	06:06	07:12 18:24-18:45/21	07:17	08:27 10:25-10:50/25	09:06 10:35-11:34/59
	21:56	20:42	19:16	16:55	15:51	15:38 11:50-12:08/18
26	05:03	06:08	07:14 18:25-18:42/17	07:20	08:29 10:25-10:51/26	09:07 10:35-11:35/60
	21:54	20:40	19:13	16:53	15:49 11:05-11:10/5	15:39 11:50-12:08/18
27	05:05	06:10	07:16 18:25-18:39/14	07:22	08:31 10:25-10:52/27	09:07 10:35-11:35/60
	21:52	20:37	19:11	16:50	15:48 11:02-11:13/11	15:40 11:51-12:08/17
28	05:07	06:12	07:18 18:27-18:36/9	07:24	08:33 10:25-10:52/27	09:07 10:36-11:36/60
	21:50	20:34	19:08	16:48	15:47 11:01-11:15/14	15:41 11:52-12:09/17
29	05:09	06:14	07:20 18:30-18:34/4	07:27	08:35 10:24-10:53/29	09:07 10:37-11:36/59
	21:48	20:32	19:05	16:45	15:46 11:00-11:17/17	15:42 11:53-12:09/16
30	05:11	06:17	07:22	07:29	08:37 10:24-10:53/29	09:07 10:36-11:36/60
	21:46	20:29	19:02	16:43	15:44 10:59-11:18/19	15:43 11:53-12:08/15
31	05:13	06:19		07:31		09:07 10:37-11:37/60
	21:43	20:26		16:40		15:44 11:55-12:09/14
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	231	0	332	2185

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

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Calculated:
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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	08:27 09:19-09:44/25 09:53-10:05/12	07:19	06:54	05:34 18:52-19:45/53	04:33
	15:45	16:46 09:00-09:13/13	17:52	20:01	21:07	22:09
2	09:06	08:25 09:18-09:43/25 09:56-10:02/6	07:17	06:51	05:31 18:52-19:43/51	04:31
	15:47	16:48 08:57-09:14/17	17:54	20:03	21:10	22:10
3	09:06	08:23 09:19-09:43/24	07:14	06:48	05:29 18:52-19:43/51	04:30
	15:48	16:51 08:57-09:15/18	17:56	20:05	21:12	22:12
4	09:05	08:21 09:19-09:42/23	07:11	06:45	05:26 18:53-19:42/49	04:29
	15:49	16:53 08:52-09:16/24	17:59	20:08	21:14	22:13
5	09:05 09:47-09:53/6	08:19 09:20-09:42/22	07:09	06:43	05:24 18:53-19:41/48	04:28
	15:51	16:55 08:50-09:17/27	18:01	20:10	21:16	22:14
6	09:04 09:47-09:56/9	08:16 09:21-09:42/21	07:06	06:40	05:22 18:53-19:39/46	04:27
	15:52	16:58 08:48-09:18/30	18:03	20:12	21:18	22:16
7	09:03 09:46-09:58/12	08:14 09:21-09:41/20	07:03	06:37	05:19 18:53-19:39/46	04:26
	15:54	17:00 08:47-09:17/30	18:05	20:14	21:20	22:17
8	09:03 09:45-09:58/13	08:12 09:23-09:40/17	07:00	06:34	05:17 18:54-19:38/44	04:25
	15:56	17:02 08:46-09:18/32	18:08	20:16	21:23	22:18
9	09:02 09:44-10:00/16	08:10 09:24-09:38/14	06:58	06:31	05:15 18:55-19:38/43	04:25
	15:57	17:05 08:45-09:18/33	18:10	20:19	21:25	22:19
10	09:01 09:44-10:01/17	08:07 09:27-09:36/9	06:55	06:29 19:26-19:32/6	05:12 18:56-19:37/41	04:24
	15:59	17:07 08:45-09:18/33	18:12	20:21	21:27	22:20
11	09:00 09:44-10:03/19	08:05 08:44-09:17/33	06:52	06:26 19:14-19:37/23	05:10 18:56-19:36/40	04:23
	16:01	17:10	18:15	20:23	21:29	22:21
12	08:59 09:43-10:03/20	08:03 08:33-08:42/9	06:49	06:23 19:11-19:40/29	05:08 18:57-19:35/38	04:23
	16:03	17:12 08:44-09:17/33	18:17	20:25	21:31	22:22
13	08:58 09:44-10:04/20	08:00 08:30-09:16/46	06:47	06:21 19:07-19:42/35	05:06 18:58-19:34/36	04:22
	16:05	17:14	18:19	20:27	21:33	22:23
14	08:57 09:43-10:05/22	07:58 08:27-09:14/47	06:44	06:18 19:04-19:43/39	05:04 18:59-19:33/34	04:22
	16:06	17:17	18:21	20:30	21:35	22:24
15	08:56 09:44-10:06/22	07:55 08:27-09:13/46	06:41	06:15 19:03-19:44/41	05:02 19:01-19:33/32	04:21
	16:08	17:19	18:23	20:32	21:37	22:25
16	08:54 09:43-10:06/23	07:53 08:26-09:10/44	06:38	06:12 19:01-19:45/44	05:00 19:02-19:32/30	04:21
	16:10	17:21	18:26	20:34	21:39	22:25
17	08:53 09:43-10:07/24	07:50 08:25-09:06/41	06:36	06:10 19:00-19:46/46	04:58 19:04-19:30/26	04:21
	16:12	17:24	18:28	20:36	21:42	22:26
18	08:52 09:44-10:08/24	07:48 08:25-09:06/41	06:33	06:07 18:58-19:46/48	04:56 19:05-19:28/23	04:21
	16:15	17:26	18:30	20:39	21:44	22:26
19	08:50 09:44-10:09/25	07:45 08:25-09:04/39	06:30	06:04 18:58-19:47/49	04:54 19:08-19:27/19	04:21
	16:17	17:29	18:32	20:41	21:46	22:27
20	08:49 09:44-10:09/25	07:43 08:24-08:47/23	06:27	06:02 18:56-19:47/51	04:52 19:10-19:24/14	04:21
	16:19	17:31 08:49-09:02/13	18:35	20:43	21:47	22:27
21	08:47 09:24-09:32/8	07:40 08:25-08:48/23	06:24	05:59 18:55-19:47/52	04:50 19:15-19:19/4	04:21
	16:21 09:44-10:09/25	17:33 08:54-08:58/4	18:37	20:45	21:49	22:27
22	08:45 09:22-09:35/13	07:38 08:25-08:47/22	06:22	05:56 18:55-19:47/52	04:48	04:21
	16:23 09:44-10:09/25	17:36	18:39	20:47	21:51	22:28
23	08:44 09:21-09:36/15	07:35 08:26-08:46/20	06:19	05:54 18:54-19:48/54	04:46	04:21
	16:25 09:44-10:10/26	17:38	18:41	20:50	21:53	22:28
24	08:42 09:20-09:38/18	07:33 08:27-08:45/18	06:16	05:51 18:53-19:47/54	04:45	04:22
	16:27 09:45-10:10/25	17:40	18:43	20:52	21:55	22:28
25	08:40 09:19-09:39/20	07:30 08:28-08:43/15	06:13	05:49 18:53-19:47/54	04:43	04:22
	16:30 09:45-10:10/25	17:43	18:46	20:54	21:57	22:28
26	08:39 09:19-09:40/21	07:27 08:30-08:40/10	06:10	05:46 18:52-19:46/54	04:41	04:22
	16:32 09:46-10:10/24	17:45	18:48	20:56	21:59	22:28
27	08:37 09:19-09:41/22	07:25	06:08	05:44 18:52-19:46/54	04:40	04:23
	16:34 09:47-10:10/23	17:47	18:50	20:58	22:00	22:27
28	08:35 09:19-09:42/23	07:22	06:05	05:41 18:52-19:45/53	04:38	04:24
	16:37 09:48-10:10/22	17:49	18:52	21:01	22:02	22:27
29	08:33 09:18-09:42/24		07:02	05:39 18:52-19:45/53	04:37	04:24
	16:39 09:48-10:08/20		19:54	21:03	22:04	22:27
30	08:31 09:18-09:42/24 09:49-10:08/19		06:59	05:36 18:52-19:45/53	04:35	04:25
	16:41 09:04-09:07/3		19:57	21:05	22:05	22:26
31	08:29 09:18-09:43/25 09:51-10:07/16		06:56		04:34	
	16:44 09:02-09:11/9		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	772	1002	0	944	768	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

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Calculated:
17.09.2025 17:50/4.1.287

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	05:15 19:07-19:46/39	06:21 19:14-19:37/23	07:24	07:34 08:56-09:06/10	08:39 09:26-09:45/19
	22:26	21:41	20:23	18:59	16:38 08:15-08:48/33	15:43
2	04:27	05:17 19:06-19:47/41	06:23 19:25-19:31/6	07:27	07:36 08:54-09:08/14	08:41 09:27-09:44/17
	22:25	21:39	20:21	18:57	16:36 08:15-08:47/32	15:42
3	04:28	05:19 19:06-19:48/42	06:25	07:29	07:38 08:53-09:10/17	08:42 09:28-09:44/16
	22:25	21:37	20:18	18:54	16:33 08:16-08:48/32	15:41
4	04:29	05:21 19:05-19:48/43	06:27	07:31	07:40 08:51-09:11/20	08:44 09:30-09:43/13
	22:24	21:35	20:15	18:51	16:31 08:17-08:47/30	15:40
5	04:30	05:23 19:04-19:49/45	06:29	07:33	07:43 08:51-09:12/21	08:46 09:31-09:43/12
	22:23	21:32	20:12	18:48	16:29 08:18-08:47/29	15:39
6	04:31	05:25 19:04-19:49/45	06:31	07:35	07:45 08:49-09:12/23	08:48 09:32-09:41/9
	22:23	21:30	20:09	18:45	16:26 08:20-08:46/26	15:39
7	04:32	05:27 19:03-19:50/47	06:34	07:37	07:47 08:49-09:13/24	08:49 09:34-09:41/7
	22:22	21:28	20:07	18:43	16:24 08:24-08:46/22	15:38
8	04:33	05:30 19:02-19:51/49	06:36	07:40	07:50 08:49-09:13/24	08:51
	22:21	21:25	20:04	18:40	16:22 08:27-08:46/19	15:37
9	04:35	05:32 19:02-19:52/50	06:38	07:42	07:52 08:49-09:14/25 09:26-09:33/7	08:52
	22:20	21:23	20:01	18:37	16:20 08:28-08:45/17	15:37
10	04:36	05:34 19:02-19:52/50	06:40	07:44	07:54 08:49-09:14/25 09:24-09:36/12	08:53
	22:19	21:21	19:58	18:34	16:18 08:31-08:44/13	15:36
11	04:37	05:36 19:01-19:53/52	06:42	07:46	07:57 08:49-09:14/25 09:22-09:38/16	08:55
	22:17	21:18	19:56	18:32	16:16 08:33-08:41/8	15:36
12	04:39	05:38 19:01-19:53/52	06:44	07:48	07:59 08:50-09:14/24 09:21-09:40/19	08:56
	22:16	21:16	19:53	18:29	16:14 08:36-08:38/2	15:35
13	04:40	05:40 19:01-19:54/53	06:46	07:50	08:01 08:50-09:14/24	08:57
	22:15	21:13	19:50	18:26	16:12 09:20-09:40/20	15:35
14	04:42	05:42 18:59-19:53/54	06:48	07:53	08:03 08:51-09:14/23	08:58
	22:14	21:11	19:47	18:24	16:10 09:20-09:41/21	15:35
15	04:43	05:44 18:59-19:53/54	06:50	07:55 09:05-09:10/5	08:06 08:51-09:13/22	09:00
	22:12	21:08	19:44	18:21	16:08 09:19-09:42/23	15:35
16	04:45	05:47 18:59-19:53/54	06:53	07:57 09:01-09:14/13	08:08 08:52-09:13/21	09:01
	22:11	21:06	19:41	18:18	16:06 09:19-09:43/24	15:35
17	04:47	05:49 18:59-19:53/54	06:55	07:59 08:59-09:15/16	08:10 08:53-09:13/20	09:01
	22:09	21:03	19:39	18:16	16:04 09:19-09:44/25	15:35
18	04:48	05:51 18:59-19:53/54	06:57	08:02 08:58-09:17/19	08:12 08:54-09:12/18	09:02
	22:08	21:01	19:36	18:13	16:02 09:19-09:44/25	15:35
19	04:50	05:53 18:59-19:53/54	06:59	08:04 08:57-09:17/20	08:14 08:56-09:11/15	09:03
	22:06	20:58	19:33	18:10	16:00 09:19-09:45/26	15:35
20	04:52	05:55 18:59-19:52/53	07:01	08:06 08:56-09:18/22	08:17 08:57-09:10/13	09:04
	22:04	20:55	19:30	18:08	15:59 09:19-09:44/25	15:35
21	04:54	05:57 18:59-19:52/53	07:03	08:08 08:55-09:18/23	08:19 09:00-09:08/8	09:04
	22:03	20:53	19:27	18:05 09:22-09:30/8	15:57 09:20-09:45/25	15:36
22	04:55	05:59 19:00-19:51/51	07:05	08:11 08:56-09:18/22	08:21 09:20-09:45/25	09:05
	22:01	20:50	19:25	18:03 09:20-09:33/13	15:55	15:36
23	04:57 19:22-19:32/10	06:02 19:00-19:51/51	07:07	08:13 08:55-09:35/40	08:23 09:20-09:45/25	09:06
	21:59	20:48	19:22	18:00	15:54	15:37
24	04:59 19:19-19:36/17	06:04 19:00-19:50/50	07:09	08:15 08:55-09:35/40	08:25 09:21-09:45/24	09:06
	21:57	20:45	19:19	17:58	15:52	15:37
25	05:01 19:17-19:38/21	06:06 19:01-19:49/48	07:12	07:17 07:55-08:37/42	08:27 09:21-09:45/24	09:06
	21:56	20:42	19:16	16:55	15:51	15:38
26	05:03 19:16-19:40/24	06:08 19:02-19:48/46	07:14	07:20 07:55-08:40/45	08:29 09:22-09:46/24	09:07
	21:54	20:40	19:13	16:52	15:49	15:39
27	05:05 19:13-19:41/28	06:10 19:03-19:47/44	07:16	07:22 07:57-08:43/46	08:31 09:23-09:45/22	09:07
	21:52	20:37	19:11	16:50	15:48	15:40
28	05:07 19:12-19:42/30	06:12 19:04-19:45/41	07:18	07:24 07:57-08:44/47	08:33 09:23-09:45/22	09:07
	21:50	20:34	19:08	16:48	15:47	15:41
29	05:09 19:11-19:44/33	06:14 19:05-19:43/38	07:20	07:27 08:00-08:13/13	08:35 09:24-09:44/20	09:07
	21:48	20:31	19:05	16:45 08:14-08:46/32	15:45	15:42
30	05:11 19:10-19:45/35	06:17 19:07-19:41/34	07:22	07:29 08:02-08:10/8	08:37 09:24-09:44/20	09:07
	21:46	20:29	19:02	16:43 08:13-08:46/33	15:44	15:43
31	05:13 19:09-19:46/37	06:19 19:10-19:39/29		07:31 08:14-08:47/33		09:07
	21:43	20:26		16:40		15:44
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	235	1470	29	540	1153	93

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

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Calculated:
17.09.2025 17:50/4.1.287

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 10:29-11:00/31	08:27 10:49-11:02/13	07:19 07:57-08:07/10 08:17-08:51/34	06:54 07:52-08:10/18	05:34	04:33
	15:45 09:50-10:19/29	16:46 15:18-15:42/24	17:52 16:24-16:41/17	20:01	21:07	22:09
2	09:06 10:30-11:02/32	08:25 15:19-15:42/23	07:17 07:53-08:09/16 08:16-08:50/34	06:51 07:53-08:07/14	05:31	04:31
	15:47 09:49-10:19/30	16:48	17:54 16:26-16:38/12	20:03	21:10	22:10
3	09:06 10:30-11:02/32	08:23 15:20-15:42/22	07:14 07:51-08:11/20	06:48 07:56-08:04/8	05:29	04:30
	15:48 09:48-10:19/31	16:51	17:56 08:16-08:50/34	20:05	21:12	22:12
4	09:05 10:30-11:02/32	08:21 15:20-15:40/20	07:11 07:49-08:12/23	06:45	05:26	04:29
	15:49 09:47-10:20/33	16:53	17:59 08:16-08:49/33	20:08	21:14	22:13
5	09:05 10:30-11:03/33	08:19 15:22-15:40/18	07:09 07:48-08:14/26	06:43	05:24	04:28
	15:51 09:47-10:21/34	16:55	18:01 08:17-08:49/32	20:10	21:16	22:14
6	09:04 10:31-11:04/33	08:16 15:23-15:38/15	07:06 07:47-08:15/28 08:17-08:48/31	06:40	05:22	04:27
	15:52 09:47-10:22/35	16:58	18:03 07:40-07:43/3	20:12	21:18	22:16
7	09:03 10:31-11:05/34	08:14 15:26-15:36/10	07:03 07:34-08:15/41	06:37	05:19	04:26
	15:54 09:47-10:22/35	17:00	18:05 08:18-08:47/29	20:14	21:20	22:17
8	09:03 10:30-11:05/35	08:12	07:01 07:32-08:15/43	06:34	05:17	04:25
	15:56 09:46-10:22/36	17:02	18:08 08:18-08:45/27	20:16	21:23	22:18
9	09:02 10:31-11:06/35	08:10	06:58 07:30-08:15/45	06:31	05:15	04:25
	15:57 09:46-10:22/36	17:05	18:10 08:19-08:43/24	20:19	21:25	22:19
10	09:01 10:31-11:06/35	08:07	06:55 07:29-08:16/47	06:29	05:12	04:24
	15:59 09:46-10:23/37	17:07	18:12 08:22-08:41/19	20:21	21:27	22:20
11	09:00 10:32-11:07/35	08:05	06:52 07:28-08:15/47	06:26	05:10	04:23
	16:01 09:47-10:24/37	17:10	18:15 08:24-08:38/14	20:23	21:29	22:21
12	08:59 10:32-11:07/35	08:03	06:49 07:27-08:15/48	06:23	05:08	04:23
	16:03 09:46-10:24/38	17:12	18:17	20:25	21:31	22:22
13	08:58 10:32-11:08/36	08:00 16:28-16:38/10	06:47 07:19-08:14/55	06:21	05:06	04:22
	16:04 09:47-10:25/38	17:14	18:19	20:28	21:33	22:23
14	08:57 10:32-11:08/36	07:58 16:25-16:41/16	06:44 07:15-08:13/58	06:18	05:04	04:22
	16:06 09:46-10:24/38	17:17	18:21	20:30	21:35	22:24
15	08:56 10:33-11:09/36	07:55 16:24-16:43/19	06:41 07:13-08:12/59	06:15	05:02	04:21
	16:08 09:47-10:25/38	17:19	18:23	20:32	21:37	22:25
16	08:54 10:33-11:09/36 15:24-15:28/4	07:53 16:23-16:44/21	06:38 07:11-08:11/60	06:12	05:00	04:21
	16:10 09:47-10:25/38	17:21	18:26	20:34	21:40	22:25
17	08:53 10:33-11:09/36 15:21-15:30/9	07:50 16:21-16:45/24	06:36 07:10-08:10/60	06:10	04:58	04:21
	16:12 09:47-10:25/38	17:24	18:28	20:36	21:42	22:26
18	08:52 10:34-11:10/36 15:21-15:34/13	07:48 16:21-16:46/25	06:33 07:09-08:07/58	06:07	04:56	04:21
	16:14 09:48-10:25/37	17:26 08:30-08:40/10	18:30	20:39	21:44	22:26
19	08:50 10:34-11:10/36 15:19-15:35/16	07:45 16:20-16:46/26	06:30 06:59-08:05/66	06:04	04:54	04:21
	16:17 09:48-10:25/37	17:28 08:27-08:43/16	18:32	20:41	21:46	22:27
20	08:49 10:35-11:10/35 15:19-15:36/17	07:43 16:19-16:46/27	06:27 06:56-07:47/51	06:02	04:52	04:21
	16:19 09:49-10:25/36	17:31 08:24-08:45/21	18:35 07:51-08:01/10	20:43	21:48	22:27
21	08:47 10:35-11:10/35 15:18-15:37/19	07:40 16:20-16:47/27	06:24 06:55-07:46/51	05:59	04:50	04:21
	16:21 09:49-10:24/35	17:33 08:23-08:47/24	18:37	20:45	21:49	22:27
22	08:46 10:36-11:10/34 15:18-15:38/20	07:38 16:19-16:47/28	06:22 06:53-07:43/50	05:56	04:48	04:21
	16:23 09:50-10:24/34	17:36 08:21-08:48/27	18:39	20:47	21:51	22:28
23	08:44 10:36-11:10/34 15:17-15:39/22	07:35 16:19-16:46/27	06:19 06:52-07:38/46	05:54	04:46	04:21
	16:25 09:50-10:23/33	17:38 08:20-08:49/29	18:41	20:50	21:53	22:28
24	08:42 10:37-11:10/33 15:17-15:40/23	07:33 16:19-16:46/27	06:16 06:51-07:33/42	05:51	04:45	04:21
	16:27 09:51-10:21/30	17:40 08:19-08:50/31	18:43	20:52	21:55	22:28
25	08:40 10:38-11:09/31 15:17-15:41/24	07:30 16:20-16:46/26	06:13 06:50-07:32/42	05:49	04:43	04:22
	16:30 09:52-10:11/19 10:13-10:19/6	17:43 08:18-08:50/32	18:46	20:54	21:57	22:28
26	08:39 10:39-11:09/30 15:17-15:41/24	07:27 16:20-16:45/25	06:10 06:49-07:31/42	05:46	04:41	04:22
	16:32 09:53-10:11/18	17:45 08:17-08:50/33	18:48	20:56	21:59	22:28
27	08:37 10:40-11:09/29 15:17-15:42/25	07:25 16:21-16:44/23	06:08 06:50-07:30/40	05:44	04:40	04:23
	16:34 09:55-10:10/15	17:47 08:17-08:50/33	18:50	20:59	22:01	22:28
28	08:35 10:41-11:08/27 15:16-15:41/25	07:22 16:21-16:42/21	06:05 06:50-07:28/38	05:41	04:38	04:23
	16:37 09:57-10:09/12	17:49 08:17-08:51/34	18:52	21:01	22:02	22:27
29	08:33 10:42-11:06/24 15:17-15:42/25		07:02 07:50-08:25/35	05:39	04:37	04:24
	16:39 09:59-10:06/7		19:54	21:03	22:04	22:27
30	08:31 10:44-11:05/21		06:59 07:50-08:12/22	05:36	04:35	04:25
	16:41 15:17-15:42/25		19:57 08:13-08:21/8	21:05	22:06	22:27
31	08:29 10:46-11:04/18		06:56 07:51-08:12/21		04:34	
	16:43 15:18-15:43/25		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	2241	807	1651	40	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

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Calculated:
17.09.2025 17:50/4.1.287

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 08:05-08:54/49	07:34	08:39 10:14-10:49/35
	22:26	21:41	20:23	18:59	16:38	15:43 09:29-10:06/37
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	22:24	21:35	20:15	18:51 08:58-09:20/22	16:31	15:40 09:31-10:07/36
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	21:46	20:29	19:02	16:43	15:44 09:28-10:06/38	15:43 09:51-10:17/26
31	05:13	06:19		07:31		09:07 10:29-11:00/31
	21:43	20:26		16:40		15:44 09:50-10:17/27
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	949	1439	1649	1775

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

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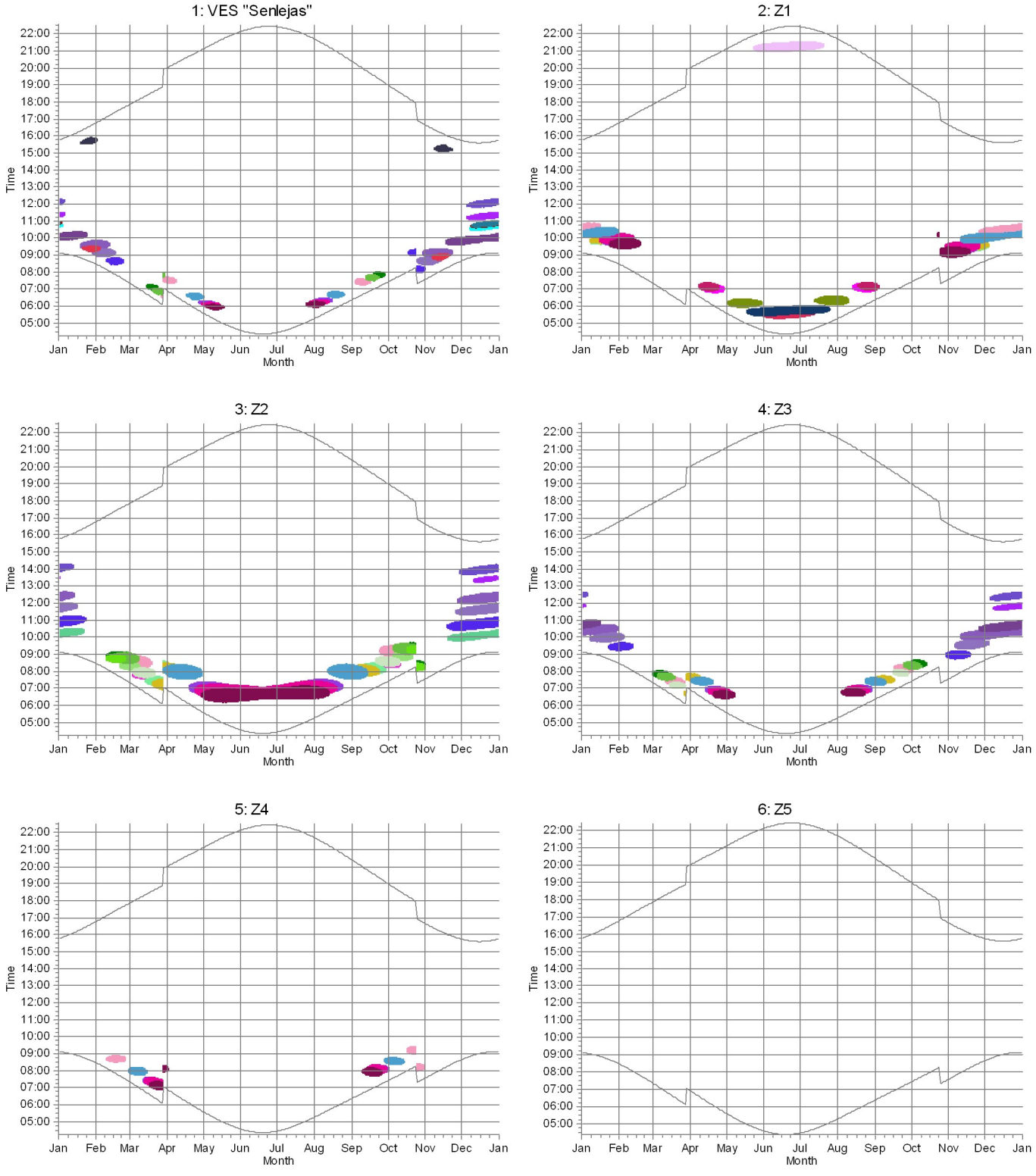
SIA Enviroprojekts
Calculated:
17.09.2025 17:50/4.1.287

SHADOW - Calendar per WTG, graphical



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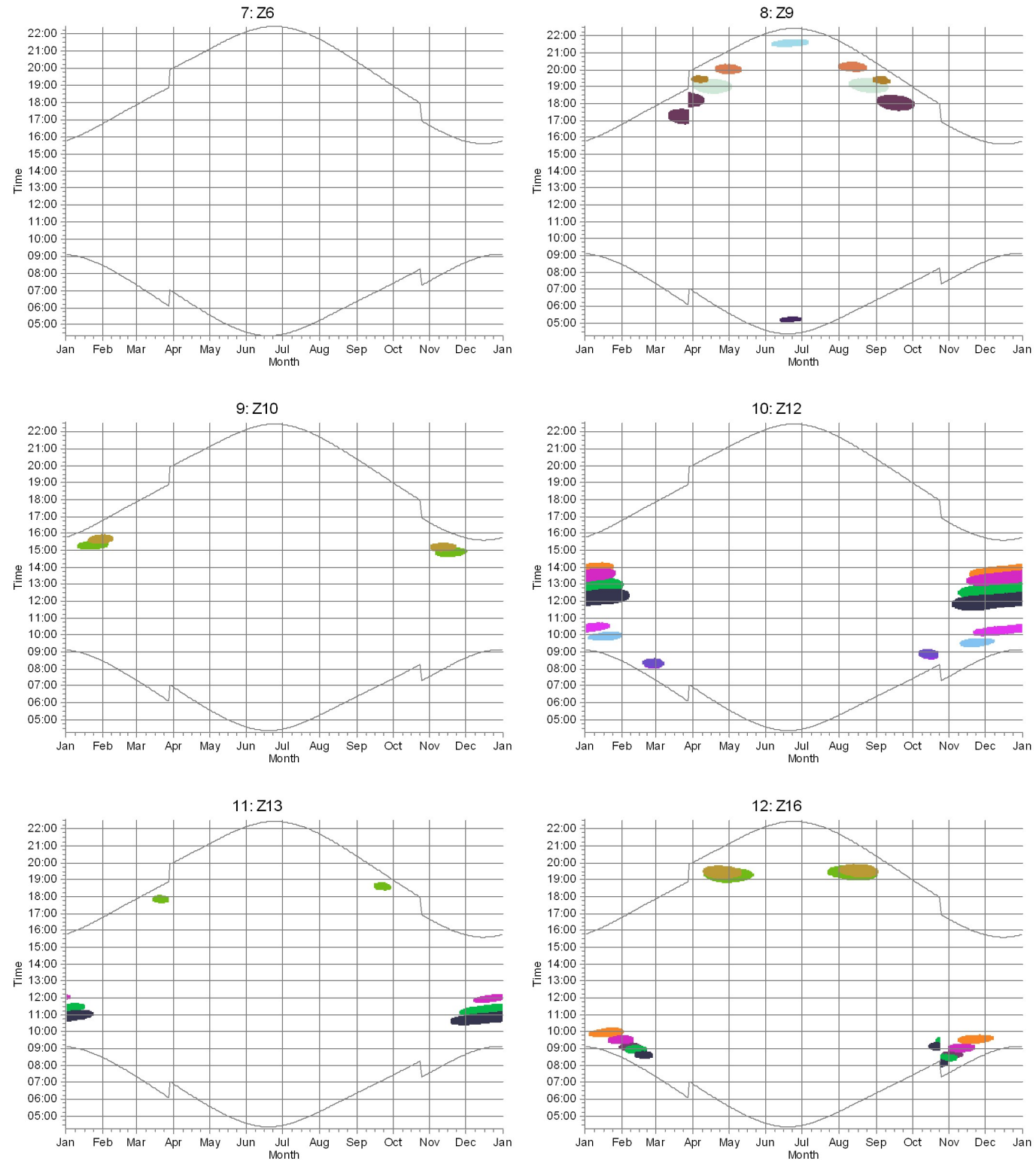
SHADOW - Calendar per WTG, graphical



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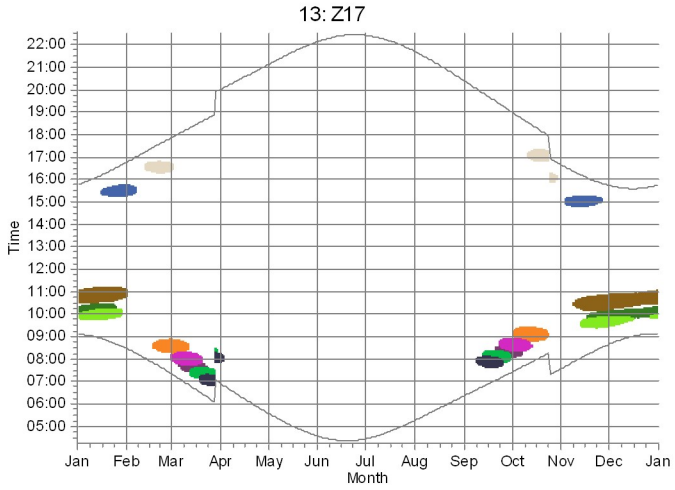
SHADOW - Calendar per WTG, graphical



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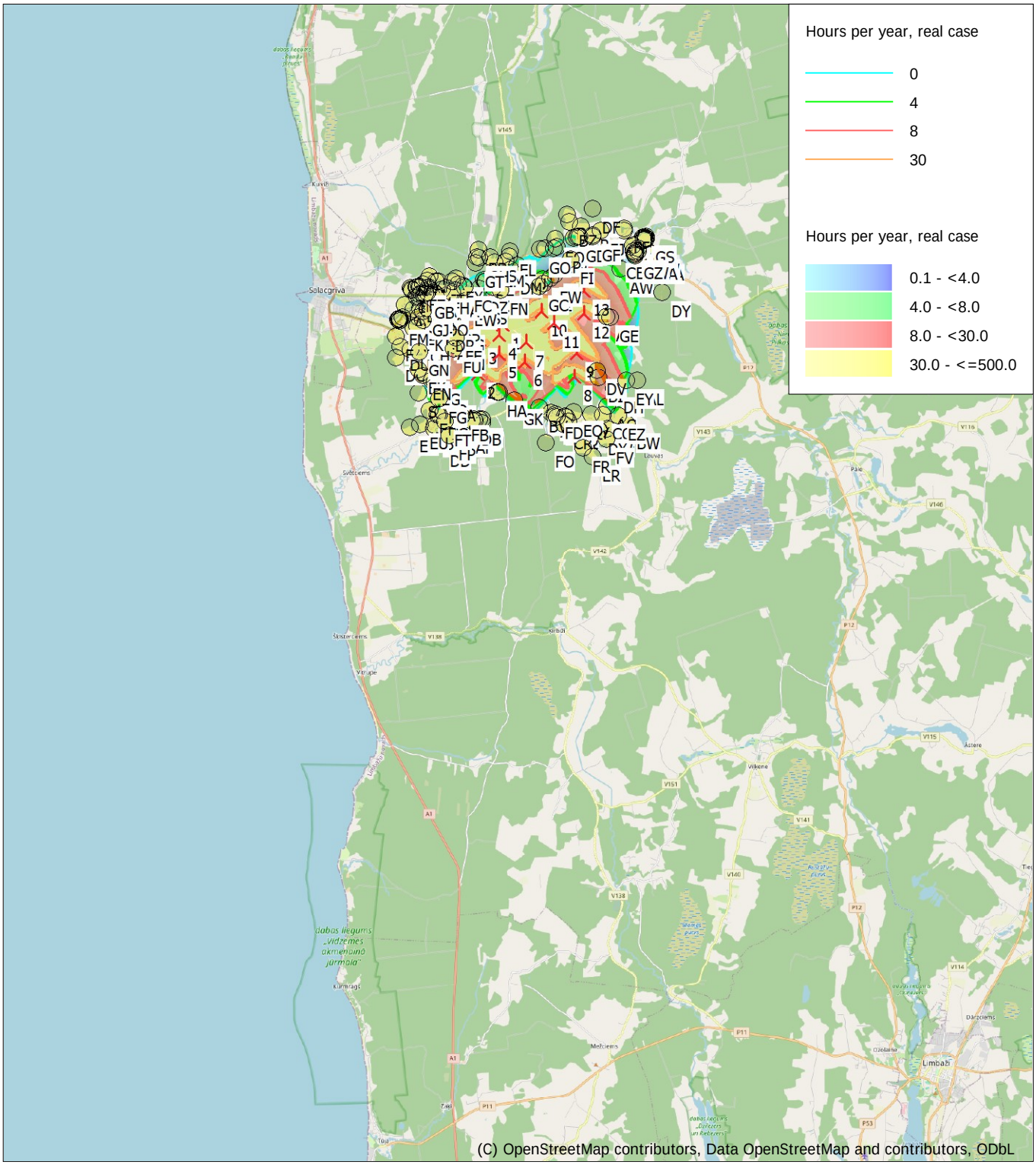
SHADOW - Map



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