

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
0 1 Sum
4 076 4 076 8 152

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)

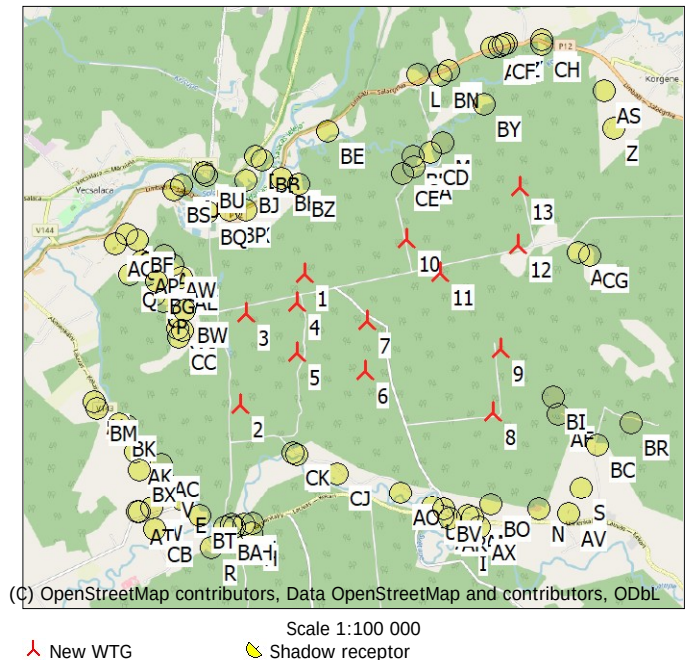
WTGs

	Y	X	Z	Row data/Description	WTG type			Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.	Type-generator				Calculation distance [m]	RPM [RPM]
1	527 357	400 505	26,4	VES "Senlejas"	No	GENVIND	VES-8 000	8 000	140,0	130,0	2 176	16,0
2	526 509	398 765	23,8	Z1	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
3	526 578	399 986	24,0	Z2	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
4	527 252	400 134	26,3	Z3	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
5	527 258	399 468	26,0	Z4	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
6	528 156	399 224	26,7	Z5	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
7	528 185	399 896	28,5	Z6	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
8	529 862	398 686	31,5	Z9	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	150,0	2 346	16,0
9	529 954	399 532	30,1	Z10	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
10	528 702	400 976	29,2	Z12	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
11	529 153	400 543	28,2	Z13	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
12	530 179	400 913	30,5	Z16	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
13	530 196	401 685	32,3	Z17	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	150,0	2 346	16,0

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	1,5	1,5	1,0	90,0	"Green house mode"	2,5
B	Akmengravas	524 996	398 481	13,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
C	Atputas	524 977	401 018	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
D	Ausekli	526 691	402 050	22,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
E	Auzinas	525 750	397 491	15,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
F	Avotkalni (A)	526 678	397 192	23,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
G	Avotkalni (B)	526 568	397 181	19,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
H	Avotkalni 1	526 669	397 069	23,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
I	Bez nosaukuma (A)	529 534	397 023	32,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
J	Bez nosaukuma (B)	525 174	397 346	13,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
K	Bezdeligas Ligzda	525 994	401 833	20,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
L	Birztalinas	528 840	403 158	33,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
M	Birzuli	529 172	402 254	30,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
N	Caunites	530 478	397 407	36,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
O	Cerini 2	525 358	400 220	15,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
P	Drupas	525 471	400 124	16,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5

To be continued on next page...



SHADOW - Main Result

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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	Dundagas	525 026	400 485	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
R	Duneni	526 129	396 865	17,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
S	Eglites	531 045	397 696	39,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
T	Einbluti	529 546	397 309	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
U	Ilgupils	529 075	397 432	21,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
V	Indrani	525 570	397 701	15,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
W	Jaunauzinas	525 341	397 395	14,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
X	Jaunjeceni	526 563	401 353	21,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
Y	Jaunkastanas	525 669	399 774	17,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
Z	Jaunspringi	531 449	402 465	35,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AA	Jaunterces	526 770	402 005	22,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AB	Jaunto š eni	530 976	400 817	34,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AC	Jaunupites	525 453	397 980	15,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AD	Jemekli	529 815	403 515	31,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AE	Kalnmalas	525 716	400 446	17,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AF	Kardes	530 727	398 674	36,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AG	Kraukli (A)	526 404	397 178	18,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AH	Kraukli (B)	526 431	397 149	17,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AI	Krivas	529 241	403 207	34,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AJ	Krusteici	525 734	399 745	17,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AK	Krumini	525 120	398 136	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AL	Kudlei š i	524 561	398 799	11,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AM	Kuikules magazina	529 606	397 295	31,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AN	Kuikuli	529 203	397 297	29,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AO	Kilzumi	528 642	397 619	23,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AP	Lapskalni	525 182	400 666	14,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AQ	Leinieki	524 841	400 889	13,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AR	Lielkuikuli	529 293	397 279	29,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AS	Lielspringi	531 305	402 957	33,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AT	Liepavoti	525 144	397 327	13,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AU	Lojas	525 710	401 675	19,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AV	Mazjesperi	530 883	397 354	38,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AW	Mazkaleji	525 603	400 609	17,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AX	Mazkuikuli	529 699	397 154	35,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AY	Mazspridi š i (A)	530 011	403 563	34,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AZ	Mazspridi š i (B)	529 962	403 551	33,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BA	Medni	526 317	397 137	19,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BB	Me ž meiniki	526 778	402 010	22,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BC	Namdari	531 253	398 274	38,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BD	Norinas	528 768	402 073	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BE	Olki	527 636	402 396	25,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BF	Paegli	525 121	400 942	14,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BG	Pavasari	525 383	400 397	16,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BH	Pavuli	527 026	401 775	22,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BI	Plesini	530 664	398 903	36,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BJ	Pucites	526 553	401 739	21,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BK	Raudupes	524 905	398 517	13,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BL	Rudzi š i 1	530 473	403 630	31,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BM	Saulkrasti	524 605	398 709	11,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BN	Silkaleji	529 147	403 146	34,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BO	Silkalni	529 852	397 464	35,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BP	Silveveri	526 342	401 352	22,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BQ	Smilgas	526 056	401 315	20,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BR	Soles	531 696	398 570	39,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BS	Stienu ž i	525 610	401 610	19,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BT	Straujupites	525 980	397 282	16,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BU	Sunuki	526 033	401 800	20,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BV	Svetupe	529 217	397 397	27,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BW	Tamisari	525 755	400 019	17,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BX	Tomsoni	525 170	397 900	14,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BY	Tuiskas	529 716	402 772	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BZ	Urgas	527 268	401 692	22,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CA	Vaverites	528 791	401 939	30,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CB	Vecjennas	525 380	397 106	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5

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SHADOW - Main Result

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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	Veckastani	525 682	399 657	17,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CD	Vecmelderi	529 002	402 124	29,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CE	Vecsilupites	528 641	401 842	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CF	Vecspridi š i	529 913	403 537	32,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CG	Vecto š eni	531 132	400 781	35,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CH	Vecupites	530 474	403 557	29,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CI	Vedamurgas	527 257	398 125	21,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CJ	Vejini	527 799	397 858	21,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CK	Zvaigznes	527 206	398 136	21,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5

Calculation Results

Shadow receptor

Shadow, expected values

No. Name
 Shadow hours
 per year
 [h/year]

A	Aiviekstes	10:21
B	Akmengravas	8:15
C	Atputas	2:11
D	Ausekli	2:01
E	Auzinas	0:00
F	Avotkalni (A)	0:00
G	Avotkalni (B)	0:00
H	Avotkalni 1	0:00
I	Bez nosaukuma (A)	0:00
J	Bez nosaukuma (B)	0:00
K	Bezdeligas Ligzda	2:12
L	Birztalinas	0:59
M	Birzuli	9:58
N	Caunites	0:00
O	Cerini 2	17:30
P	Drupas	22:20
Q	Dundagas	7:40
R	Duneni	0:00
S	Eglites	4:38
T	Einbluti	0:00
U	Ilgupils	0:00
V	Indrani	0:00
W	Jaunauzinas	0:00
X	Jaunjeceni	8:43
Y	Jaunkastanas	47:13
Z	Jaunspringi	4:50
AA	Jaunterces	2:06
AB	Jaunto š eni	46:01
AC	Jaunupites	10:30
AD	Jemekli	0:00
AE	Kalnmalas	20:24
AF	Kardes	22:13
AG	Kraukli (A)	0:00
AH	Kraukli (B)	0:00
AI	Krivas	1:38
AJ	Krusteici	60:06
AK	Krumini	14:50
AL	Kudlei š i	10:06
AM	Kuikules magazina	0:00
AN	Kuikuli	0:00
AO	Kilzumi	3:59
AP	Lapskalni	7:30
AQ	Leinieki	2:14
AR	Lielkuikuli	0:00
AS	Lielspringi	2:46
AT	Liepavoti	0:00
AU	Lojas	3:02

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SHADOW - Main Result

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No.	Name	Shadow, expected values
		Shadow hours per year [h/year]
AV	Mazjesperi	0:00
AW	Mazkaleji	13:50
AX	Mazkuikuli	0:00
AY	Mazspridi š i (A)	0:00
AZ	Mazspridi š i (B)	0:00
BA	Medni	0:00
BB	Me ž meiniki	2:04
BC	Namdari	8:49
BD	Norinas	8:32
BE	Olki	1:35
BF	Paegli	4:29
BG	Pavasari	15:34
BH	Pavuli	4:44
BI	Plesini	17:55
BJ	Pucites	4:34
BK	Raudupes	9:08
BL	Rudzi š i 1	0:00
BM	Saulkrasti	4:07
BN	Silkaleji	1:37
BO	Silkalni	0:00
BP	Silveveri	5:17
BQ	Smilgas	6:35
BR	Soles	11:44
BS	Stienu ž i	3:29
BT	Straujupites	0:00
BU	Sunuki	2:18
BV	Svetupe	0:00
BW	Tamisari	41:41
BX	Tomsoni	13:44
BY	Tuiskas	3:57
BZ	Urgas	7:18
CA	Vaverites	10:51
CB	Vecjennas	0:00
CC	Veckastani	54:36
CD	Vecmelderi	10:07
CE	Vecsilupites	11:09
CF	Vecspridi š i	0:00
CG	Vecto š eni	28:37
CH	Vecupites	0:00
CI	Vedamurgas	0:00
CJ	Vejini	13:02
CK	Zvaigznes	0:00

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

No.	Name	Expected
		[h/year]
1	VES "Senlejas"	27:35
2	Z1	67:04
3	Z2	133:36
4	Z3	49:36
5	Z4	26:06
6	Z5	0:00
7	Z6	3:40
8	Z9	61:48
9	Z10	12:03
10	Z12	15:57
11	Z13	9:12
12	Z16	51:58
13	Z17	34:02

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.

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
0 1 Sum
4 076 4 076 8 152

	January		February		March		April		May		June	
1	09:07	10:16 (2)	08:27		07:20	07:50 (4)	06:54	05:34	04:33			
	15:46	22	10:38 (2)	16:46	17:52	36	09:07 (3)	20:01	21:08	22:09		
2	09:06	10:16 (2)	08:25		07:17	07:46 (4)	06:51	05:31	04:32			
	15:47	22	10:38 (2)	16:49	17:54	41	09:06 (3)	20:04	21:10	22:10		
3	09:06	10:16 (2)	08:23		07:14	07:44 (4)	06:48	05:29	04:31			
	15:48	22	10:38 (2)	16:51	17:57	42	09:04 (3)	20:06	21:12	22:12		
4	09:06	10:16 (2)	08:21		07:12	07:43 (4)	06:46	05:27	04:30			
	15:50	22	10:38 (2)	16:53	17:59	40	09:02 (3)	20:08	21:14	22:13		
5	09:05	10:18 (2)	08:19	08:50 (5)	07:09		07:42 (4)	06:43	05:24	04:28		
	15:51	21	10:39 (2)	16:56	5	08:55 (5)	18:01	36	08:59 (3)	20:10	21:16	22:15
6	09:04	10:18 (2)	08:17		08:48 (5)	07:06		07:41 (4)	06:40	05:22	04:27	
	15:53	21	10:39 (2)	16:58	10	08:58 (5)	18:04	23	08:04 (4)	20:12	21:19	22:16
7	09:04	10:19 (2)	08:14		08:45 (5)	07:04		07:40 (4)	06:37	05:20	04:27	
	15:54	21	10:40 (2)	17:00	14	08:59 (5)	18:06	24	08:04 (4)	20:15	21:21	22:17
8	09:03	10:19 (2)	08:12		08:44 (5)	07:01		07:40 (4)	06:35	05:17	04:26	
	15:56	21	10:40 (2)	17:03	17	09:01 (5)	18:08	24	08:04 (4)	20:17	21:23	22:18
9	09:02	10:19 (2)	08:10		08:42 (5)	06:58		07:40 (4)	06:32	05:15	04:25	
	15:58	20	10:39 (2)	17:05	19	09:01 (5)	18:10	25	08:05 (4)	20:19	21:25	22:19
10	09:01	10:20 (2)	08:08		08:42 (5)	06:55		07:40 (4)	06:29	05:13	04:24	
	15:59	20	10:40 (2)	17:08	21	09:03 (5)	18:13	24	08:04 (4)	20:21	21:27	22:21
11	09:00	10:21 (2)	08:05		08:42 (5)	06:53		07:40 (4)	06:26	05:11	04:24	
	16:01	19	10:40 (2)	17:10	21	09:03 (5)	18:15	23	08:03 (4)	20:23	21:29	22:22
12	08:59	10:22 (2)	08:03		08:42 (5)	06:50		07:40 (4)	06:24	05:08	04:23	
	16:03	17	10:39 (2)	17:12	22	09:04 (5)	18:17	22	08:02 (4)	20:26	21:31	22:22
13	08:58	10:23 (2)	08:00		08:42 (5)	06:47		07:41 (4)	06:21	05:06	04:23	
	16:05	16	10:39 (2)	17:15	23	09:05 (3)	18:19	20	08:01 (4)	20:28	21:34	22:23
14	08:57	10:24 (2)	07:58		08:41 (5)	06:44		07:43 (4)	06:18	05:04	04:22	
	16:07	14	10:38 (2)	17:17	25	09:06 (3)	18:22	17	08:00 (4)	20:30	21:36	22:24
15	08:56	10:26 (2)	07:56		08:41 (3)	06:41		07:08 (1)	06:15	05:02	04:22	
	16:09	12	10:38 (2)	17:19	27	09:08 (3)	18:24	17	07:57 (4)	20:32	21:38	22:25
16	08:55	10:27 (2)	07:53		08:40 (3)	06:39		07:05 (1)	06:13	05:00	04:21	
	16:11	10	10:37 (2)	17:22	29	09:09 (3)	18:26	14	07:53 (4)	20:34	21:40	22:25
17	08:53	10:30 (2)	07:51		08:40 (3)	06:36		07:02 (1)	06:10	04:58	04:21	
	16:13	4	10:34 (2)	17:24	30	09:10 (3)	18:28	11	07:13 (1)	20:37	21:42	22:26
18	08:52		07:48		08:39 (3)	06:33		06:59 (1)	06:07	04:56	04:21	
	16:15		17:26	32	09:11 (3)	18:30	14	07:13 (1)	20:39	21:44	22:27	
19	08:50		07:46		08:38 (3)	06:30		06:56 (1)	06:05	04:54	04:21	
	16:17		17:29	33	09:11 (3)	18:33	17	07:13 (1)	20:41	21:46	22:27	
20	08:49		07:43		08:38 (3)	06:28		06:56 (1)	06:02	04:52	04:21	
	16:19		17:31	34	09:12 (3)	18:35	17	07:13 (1)	20:43	21:48	22:27	
21	08:47		07:41		08:37 (3)	06:25		06:56 (1)	05:59	04:50	04:21	
	16:21		17:34	35	09:12 (3)	18:37	16	07:12 (1)	20:46	21:50	22:28	
22	08:46		07:38		08:37 (3)	06:22		06:57 (1)	05:57	04:48	04:21	
	16:23		17:36	34	09:11 (3)	18:39	14	07:11 (1)	20:48	21:52	22:28	
23	08:44		07:36		08:37 (3)	06:19		06:57 (1)	05:54	04:47	04:22	
	16:26		17:38	35	09:12 (3)	18:42	13	07:10 (1)	20:50	21:54	22:28	
24	08:42		07:33		08:37 (3)	06:16		06:59 (1)	05:52	04:45	04:22	
	16:28		17:41	34	09:11 (3)	18:44	8	07:07 (1)	20:52	21:55	22:28	
25	08:41		07:30		08:37 (3)	06:14			05:49	04:43	04:22	
	16:30		17:43	34	09:11 (3)	18:46			20:54	21:57	22:28	
26	08:39		07:28		08:37 (3)	06:11			05:46	04:42	04:23	
	16:32		17:45	33	09:10 (3)	18:48			20:57	21:59	22:28	
27	08:37		07:25		08:38 (3)	06:08			05:44	04:40	04:23	
	16:35		17:47	32	09:10 (3)	18:50			20:59	22:01	22:28	
28	08:35		07:22		08:38 (3)	06:05			05:41	04:39	04:24	
	16:37		17:50	31	09:09 (3)	18:53			21:01	22:02	22:28	
29	08:33					07:02			05:39	04:37	04:25	
	16:39					19:55			21:03	22:04	22:27	
30	08:31					07:00			05:36	04:36	04:25	
	16:42					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	304		630			538						
Sun reduction	0,13		0,22			0,37						
Oper. time red.	0,93		0,93			0,93						
Wind dir. red.	0,42		0,79			0,92						
Total reduction	0,05		0,16			0,31						
Total, real	16		103			168						

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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
0 1 Sum
4 076 4 076 8 152

	July	August	September		October		November		December	
1	04:26	05:15	06:21		07:25	08:20 (4)	07:34	08:12 (5)	08:39	10:04 (2)
	22:26	21:42	20:24		19:00	21 08:41 (4)	16:38	20 08:32 (5)	15:43	18 10:22 (2)
2	04:27	05:17	06:23		07:27	08:18 (4)	07:36	08:12 (5)	08:41	10:04 (2)
	22:26	21:39	20:21		18:57	23 08:41 (4)	16:36	19 08:31 (5)	15:42	19 10:23 (2)
3	04:28	05:19	06:25		07:29	08:18 (4)	07:38	08:13 (5)	08:43	10:04 (2)
	22:25	21:37	20:18		18:54	24 08:42 (4)	16:34	18 08:31 (5)	15:41	19 10:23 (2)
4	04:29	05:22	06:27		07:31	08:17 (4)	07:41	08:15 (5)	08:45	10:04 (2)
	22:24	21:35	20:15		18:51	25 08:42 (4)	16:31	14 08:29 (5)	15:41	20 10:24 (2)
5	04:30	05:24	06:30		07:33	08:17 (4)	07:43	08:18 (5)	08:46	10:04 (2)
	22:24	21:33	20:13		18:49	24 08:41 (4)	16:29	10 08:28 (5)	15:40	21 10:25 (2)
6	04:31	05:26	06:32		07:35	08:16 (4)	07:45	08:21 (5)	08:48	10:04 (2)
	22:23	21:30	20:10		18:46	25 08:41 (4)	16:27	4 08:25 (5)	15:39	22 10:26 (2)
7	04:32	05:28	06:34		07:38	08:17 (4)	07:48		08:49	10:04 (2)
	22:22	21:28	20:07		18:43	24 08:41 (4)	16:24		15:38	21 10:25 (2)
8	04:34	05:30	06:36		07:40	08:17 (4)	07:50		08:51	10:04 (2)
	22:21	21:26	20:04		18:40	32 09:32 (3)	16:22		15:38	22 10:26 (2)
9	04:35	05:32	06:38		07:42	08:17 (4)	07:52		08:52	10:05 (2)
	22:20	21:23	20:01		18:38	38 09:35 (3)	16:20		15:37	22 10:27 (2)
10	04:36	05:34	06:40		07:44	08:18 (4)	07:55		08:54	10:05 (2)
	22:19	21:21	19:59		18:35	40 09:37 (3)	16:18		15:36	22 10:27 (2)
11	04:38	05:36	06:42		07:46	08:20 (4)	07:57		08:55	10:06 (2)
	22:18	21:18	19:56		18:32	40 09:39 (3)	16:16		15:36	22 10:28 (2)
12	04:39	05:38	06:44		07:49	08:21 (4)	07:59		08:56	10:06 (2)
	22:17	21:16	19:53		18:29	39 09:40 (3)	16:14		15:36	22 10:28 (2)
13	04:41	05:41	06:47		07:51	08:25 (4)	08:01		08:58	10:06 (2)
	22:15	21:14	19:50		18:27	33 09:41 (3)	16:12		15:35	22 10:28 (2)
14	04:42	05:43	06:49		07:53	09:11 (3)	08:04		08:59	10:07 (2)
	22:14	21:11	19:47		18:24	31 09:42 (3)	16:10		15:35	22 10:29 (2)
15	04:44	05:45	06:51		07:55	09:10 (3)	08:06		09:00	10:07 (2)
	22:13	21:09	19:45		18:21	32 09:42 (3)	16:08		15:35	23 10:30 (2)
16	04:45	05:47	06:53		07:57	09:09 (3)	08:08		09:01	10:08 (2)
	22:11	21:06	19:42		18:19	33 09:42 (3)	16:06		15:35	22 10:30 (2)
17	04:47	05:49	06:55		08:00	09:09 (3)	08:10		09:02	10:08 (2)
	22:10	21:04	19:39		18:16	34 09:43 (3)	16:04		15:35	23 10:31 (2)
18	04:49	05:51	06:57		08:02	09:08 (3)	08:13		09:03	10:09 (2)
	22:08	21:01	19:36		18:13	35 09:43 (3)	16:02		15:35	22 10:31 (2)
19	04:50	05:53	06:59	07:47 (1)	08:04	09:07 (3)	08:15		09:03	10:08 (2)
	22:06	20:58	19:33	7 07:54 (1)	18:11	35 09:42 (3)	16:01		15:36	23 10:31 (2)
20	04:52	05:55	07:01	07:44 (1)	08:06	09:08 (3)	08:17		09:04	10:09 (2)
	22:05	20:56	19:31	12 07:56 (1)	18:08	34 09:42 (3)	15:59		15:36	23 10:32 (2)
21	04:54	05:58	07:03	07:43 (1)	08:09	09:07 (3)	08:19		09:05	10:10 (2)
	22:03	20:53	19:28	14 07:57 (1)	18:06	35 09:42 (3)	15:57		15:36	23 10:33 (2)
22	04:56	06:00	07:05	07:41 (1)	08:11	09:08 (3)	08:21		09:05	10:10 (2)
	22:01	20:51	19:25	16 07:57 (1)	18:03	34 09:42 (3)	15:56		15:37	23 10:33 (2)
23	04:58	06:02	07:08	07:40 (1)	08:13	09:08 (3)	08:23		09:06	10:11 (2)
	22:00	20:48	19:22	17 07:57 (1)	18:00	33 09:41 (3)	15:54		15:37	23 10:34 (2)
24	04:59	06:04	07:10	07:40 (1)	08:15	09:09 (3)	08:25		09:06	10:11 (2)
	21:58	20:45	19:19	17 07:57 (1)	17:58	32 09:41 (3)	15:53		15:38	23 10:34 (2)
25	05:01	06:06	07:12	07:41 (1)	07:18	08:09 (3)	08:28	10:09 (2)	09:07	10:12 (2)
	21:56	20:43	19:16	15 07:56 (1)	16:55	30 08:39 (3)	15:51	3 10:12 (2)	15:38	22 10:34 (2)
26	05:03	06:08	07:14	07:43 (1)	07:20	08:10 (3)	08:30	10:07 (2)	09:07	10:12 (2)
	21:54	20:40	19:14	12 07:55 (1)	16:53	29 08:39 (3)	15:50	9 10:16 (2)	15:39	22 10:34 (2)
27	05:05	06:10	07:16	07:46 (1)	07:22	08:11 (5)	08:32	10:05 (2)	09:07	10:12 (2)
	21:52	20:37	19:11	9 07:55 (1)	16:50	26 08:37 (3)	15:48	12 10:17 (2)	15:40	23 10:35 (2)
28	05:07	06:13	07:18	07:48 (1)	07:25	08:12 (5)	08:34	10:04 (2)	09:07	10:13 (2)
	21:50	20:35	19:08	16 08:37 (4)	16:48	24 08:36 (3)	15:47	14 10:18 (2)	15:41	22 10:35 (2)
29	05:09	06:15	07:20	07:50 (1)	07:27	08:11 (5)	08:35	10:03 (2)	09:07	10:14 (2)
	21:48	20:32	19:05	17 08:39 (4)	16:45	23 08:34 (3)	15:46	16 10:19 (2)	15:42	22 10:36 (2)
30	05:11	06:17	07:23	08:21 (4)	07:29	08:11 (5)	08:37	10:04 (2)	09:07	10:14 (2)
	21:46	20:29	19:02	19 08:40 (4)	16:43	22 08:33 (5)	15:45	17 10:21 (2)	15:43	23 10:37 (2)
31	05:13	06:19			07:32	08:11 (5)			09:07	10:14 (2)
	21:44	20:26			16:41	21 08:32 (5)			15:44	23 10:37 (2)
Potential sun hours	538	474	386		321		241		207	
Total, worst case			171	931		156		679		
Sun reduction			0,43	0,31		0,15		0,13		
Oper. time red.			0,93	0,93		0,93		0,93		
Wind dir. red.			0,97	0,83		0,62		0,42		
Total reduction			0,39	0,24		0,09		0,05		
Total, real			66	221		14		34		

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: B - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December			
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	06:52 (2) 17 07:09 (2)	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:24	07:03 (2) 2 07:05 (2)	07:25 19:00	07:34 16:38	08:39 15:44	
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	05:32 21:10	06:54 (2) 13 07:07 (2)	04:32 22:10	04:27 22:26	05:18 21:39	06:23 20:21		07:27 18:57	07:36 16:36	08:41 15:43	
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	06:59 (2) 3 07:02 (2)	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18		07:29 18:54	07:38 16:34	08:43 15:42	
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14		04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15		07:31 18:51	07:41 16:31	08:44 15:41	
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16		04:29 22:15	04:30 22:24	05:24 21:33	06:30 20:13		07:33 18:49	07:43 16:29	08:46 15:40	
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 20:12	05:22 21:19		04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10		07:35 18:46	07:45 16:27	08:48 15:39	
7	09:04 15:54	08:14 17:01	07:04 18:06	06:37 20:15	05:20 21:21		04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07		07:38 18:43	07:48 16:25	08:49 15:38	
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23		04:26 22:18	04:34 22:21	05:30 21:26	06:36 20:04		07:40 18:40	07:50 16:22	08:51 15:38	
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25		04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01		07:42 18:38	07:52 16:20	08:52 15:37	
10	09:01 16:00	08:08 17:08	06:55 18:13	06:29 20:21	05:13 21:27		04:24 22:20	04:36 22:19	05:34 21:21	07:05 (2) 8 07:13 (2)		06:40 19:59	07:44 18:35	08:54 16:18	
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 3 07:04 (2)		04:24 22:21	04:38 22:18	05:36 21:18	07:02 (2) 14 07:16 (2)		06:42 19:56	07:46 18:32	08:55 16:16	
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:08 13 07:11 (2)		04:23 22:22	04:39 22:16	05:39 21:16	07:00 (2) 18 07:18 (2)		06:44 19:53	07:49 18:29	08:56 16:14	
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 18 07:14 (2)		04:23 22:23	04:41 22:15	05:41 21:14	06:58 (2) 21 07:19 (2)		06:47 19:50	07:51 18:27	08:57 16:12	
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 22 07:15 (2)		04:22 22:24	04:42 22:14	05:43 21:11	06:57 (2) 23 07:20 (2)		06:49 19:47	07:53 18:24	08:59 16:10	
15	08:56 16:09	07:56 17:19	06:42 18:24	06:16 20:32	05:02 24 07:16 (2)		04:22 22:25	04:44 22:12	05:45 21:09	06:56 (2) 25 07:21 (2)		06:51 19:45	07:55 18:21	09:00 16:08	
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 26 07:17 (2)		04:22 22:25	04:45 22:11	05:47 21:06	06:55 (2) 27 07:22 (2)		06:53 19:42	07:57 18:19	09:01 16:06	
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 28 07:17 (2)		04:21 22:26	04:47 22:10	05:49 21:03	06:54 (2) 28 07:22 (2)		06:55 19:39	08:00 18:16	09:02 16:04	
18	08:52 16:15	07:48 17:27	06:33 18:31	06:07 20:39	04:56 29 07:18 (2)		04:21 22:26	04:49 22:08	05:51 21:01	06:53 (2) 29 07:22 (2)		06:57 19:36	08:02 18:13	09:02 16:03	
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 30 07:18 (2)		04:21 22:27	04:51 22:06	05:53 20:58	06:53 (2) 30 07:23 (2)		06:59 19:33	08:04 18:11	09:03 16:01	
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 30 07:17 (2)		04:21 22:27	04:52 22:05	05:56 20:56	06:52 (2) 31 07:23 (2)		07:01 19:31	08:06 18:08	09:04 15:59	
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:45	04:50 31 07:18 (2)		04:21 22:27	04:54 22:03	05:58 20:53	06:52 (2) 31 07:23 (2)		07:03 19:28	08:09 18:06	09:05 15:57	
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 30 07:17 (2)		04:22 22:28	04:56 22:01	06:00 20:50	06:52 (2) 30 07:22 (2)		07:06 19:25	08:11 18:03	09:05 15:56	
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 30 07:17 (2)		04:22 22:28	04:58 21:59	06:02 20:48	06:52 (2) 30 07:22 (2)		07:08 19:22	08:13 18:00	09:06 15:54	
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 30 07:17 (2)		04:22 22:28	05:00 21:58	06:04 20:45	06:52 (2) 29 07:21 (2)		07:10 19:19	08:15 17:58	09:06 15:53	
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 29 07:16 (2)		04:22 22:28	05:02 21:56	06:06 20:43	06:52 (2) 29 07:21 (2)		07:12 19:16	07:18 16:55	09:06 15:51	
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:57	04:42 27 07:15 (2)		04:23 22:28	05:03 21:54	06:08 20:40	06:52 (2) 28 07:20 (2)		07:14 19:14	07:20 16:53	09:07 15:50	
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 26 07:14 (2)		04:23 22:28	05:05 21:52	06:11 20:37	06:53 (2) 26 07:19 (2)		07:16 19:11	07:22 16:50	09:07 15:48	
28	08:35 16:37	07:22 17:50	06:05 18:53	05:41 21:01	04:39 24 07:13 (2)		04:24 22:27	05:07 21:50	06:13 20:34	06:53 (2) 24 07:17 (2)		07:18 19:08	07:25 16:48	09:07 15:47	
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22 07:12 (2)		04:25 22:27	05:09 21:48	06:15 20:32	06:54 (2) 22 07:16 (2)		07:20 19:05	07:27 16:46	09:07 15:46	
30	08:31 16:42		07:00 19:57	05:37 21:05	04:36 20 07:10 (2)		04:26 22:27	05:11 21:46	06:17 20:29	06:56 (2) 18 07:14 (2)		07:23 19:02	07:29 16:43	09:07 15:45	
31	08:29 16:44		06:57 19:59		04:35 22:07			05:13 21:44	06:19 20:26	06:58 (2) 13 07:11 (2)			07:31 16:41		09:07 15:44
Potential sun hours	227	262	365	429	515		539	538	474	386		321	241	207	
Total, worst case				492	33				534	2					
Sun reduction				0,46	0,58				0,55	0,43					
Oper. time red.				0,93	0,93				0,93	0,93					
Wind dir. red.				0,99	0,99				0,99	0,99					
Total reduction				0,42	0,53				0,50	0,40					
Total, real				209	18				268	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: C - 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

0	1	Sum
4 076	4 076	8 152

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:07 15:46	08:27 16:46		07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:15 21:42	06:21 20:24	07:25 19:00		07:34 16:38	08:12 (3) 08:15 (3)	08:39 15:43
2	09:06 15:47	08:25 16:49		07:17 17:54	06:51 20:04	05:31 21:10	04:32 22:10	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57		07:36 16:36		08:41 15:42
3	09:06 15:48	08:23 16:51		07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54		07:38 16:34		08:43 15:41
4	09:06 15:50	08:21 16:53		07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:25	05:22 21:35	06:28 20:15	07:31 18:51		07:41 16:31		08:45 15:41
5	09:05 15:51	08:19 16:56		07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:15	04:30 22:24	05:24 21:33	06:30 20:13	07:33 18:49		07:43 16:29		08:46 15:40
6	09:04 15:53	08:17 16:58		07:06 18:04	06:40 20:12	05:22 21:19	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:36 18:46		07:45 16:27		08:48 15:39
7	09:04 15:54	08:14 17:00		07:04 18:06	06:37 20:15	05:20 21:21	04:27 22:17	04:32 22:22	05:28 21:28	06:34 20:07	07:38 18:43		07:48 16:25		08:49 15:38
8	09:03 15:56	08:12 17:03		07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:26	06:36 20:04	07:40 18:40		07:50 16:22		08:51 15:38
9	09:02 15:58	08:10 17:05		06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:20	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:38		07:52 16:20		08:52 15:37
10	09:01 15:59	08:08 17:08	6	08:41 (3) 08:47 (3)	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:21	05:34 21:21	06:40 19:59	07:44 18:35		07:55 16:18		08:54 15:36
11	09:00 16:01	08:05 17:10	13	08:37 (3) 08:50 (3)	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:22	05:36 21:19	06:42 19:56	07:46 18:32		07:57 16:16		08:55 15:36
12	08:59 16:03	08:03 17:12	16	08:36 (3) 08:52 (3)	06:50 18:17	06:24 20:26	05:08 21:32	04:23 22:23	05:38 22:17	06:44 19:53	07:49 18:29		07:59 16:14		08:56 15:36
13	08:58 16:05	08:01 17:15	19	08:34 (3) 08:53 (3)	06:47 18:19	06:21 20:28	05:06 21:34	04:23 22:23	05:41 22:15	06:47 19:50	07:51 18:27		08:01 16:12		08:58 15:35
14	08:57 16:07	07:58 17:17	21	08:34 (3) 08:55 (3)	06:44 18:22	06:18 20:30	05:04 21:36	04:22 22:24	05:43 21:11	06:49 19:47	07:53 18:24		08:04 16:10		08:59 15:35
15	08:56 16:09	07:56 17:19	23	08:32 (3) 08:55 (3)	06:42 18:24	06:15 20:32	05:02 21:38	04:22 22:25	05:45 22:13	06:51 19:45	07:55 18:21	09:12 (3) 09:17 (3)	08:06 16:08		09:00 15:35
16	08:55 16:11	07:53 17:22	23	08:32 (3) 08:55 (3)	06:39 18:26	06:13 20:34	05:00 21:40	04:21 22:26	05:47 22:11	06:53 19:42	07:57 18:19	5 13	08:08 16:06		09:01 15:35
17	08:53 16:13	07:51 17:24	24	08:32 (3) 08:56 (3)	06:36 18:28	06:10 20:37	04:58 21:42	04:21 22:26	05:49 21:04	06:55 19:39	08:00 18:16	17	08:10 16:04		09:02 15:35
18	08:52 16:15	07:48 17:27	25	08:31 (3) 08:56 (3)	06:33 18:31	06:07 20:39	04:56 21:44	04:21 22:27	05:51 21:01	06:57 19:36	08:02 18:13	20	08:13 16:02		09:03 15:35
19	08:50 16:17	07:46 17:29	24	08:31 (3) 08:55 (3)	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	05:53 20:58	06:59 19:33	08:04 18:11	21	08:15 16:01		09:03 15:36
20	08:49 16:19	07:43 17:31	24	08:32 (3) 08:56 (3)	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	05:56 20:56	07:01 19:31	08:06 18:08	22	08:17 16:00		09:04 15:36
21	08:47 16:21	07:41 17:34	23	08:32 (3) 08:55 (3)	06:25 18:37	05:59 20:46	04:50 21:50	04:21 22:28	05:58 20:53	07:03 19:28	08:09 18:06	23	08:19 16:00		09:05 15:36
22	08:46 16:23	07:38 17:36	22	08:32 (3) 08:54 (3)	06:22 18:39	05:57 20:48	04:48 21:52	04:21 22:28	06:00 20:51	07:06 19:25	08:11 18:03	24	08:21 16:00		09:05 15:37
23	08:44 16:26	07:36 17:38	21	08:33 (3) 08:54 (3)	06:19 18:42	05:54 20:50	04:47 21:54	04:22 22:28	06:02 20:48	07:08 19:22	08:13 18:00	25	08:23 16:00		09:06 15:37
24	08:42 16:28	07:33 17:41	18	08:34 (3) 08:52 (3)	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	06:04 20:45	07:10 19:19	08:15 17:58	24	08:26 16:00		09:06 15:38
25	08:41 16:30	07:30 17:43	15	08:35 (3) 08:50 (3)	06:14 18:46	05:49 20:54	04:43 21:57	04:22 22:28	06:06 20:43	07:12 19:16	07:18 16:55	24	08:28 15:51		09:07 15:38
26	08:39 16:32	07:28 17:45	11	08:37 (3) 08:48 (3)	06:11 18:48	05:46 20:57	04:42 21:59	04:23 22:28	06:08 21:54	07:14 19:14	07:20 16:53	23	08:30 15:50		09:07 15:39
27	08:37 16:35	07:25 17:48		06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	22	08:32 15:48		09:07 15:40
28	08:35 16:37	07:22 17:50		06:05 18:53	05:41 21:01	04:39 22:03	04:24 22:28	05:07 21:50	06:13 20:35	07:18 19:08	07:25 16:48	21	08:34 15:47		09:07 15:41
29	08:33 16:39			07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	18	08:36 15:46		09:07 15:42
30	08:31 16:42			07:00 19:57	05:36 21:05	04:36 22:06	04:25 22:27	05:11 21:46	06:17 20:29	07:23 19:02	07:29 16:43	15	08:37 15:45		09:07 15:43
31	08:29 16:44			06:57 19:59	04:34 22:07	04:34 22:07	05:13 21:44	06:19 20:26	07:32 16:41	07:32 16:41	08:07 15:45	12	09:07 15:44		09:07 15:44
Potential sun hours	227	262		365	429	515	539	538	474	386	321		241		207
Total, worst case			328								329		3		
Sun reduction			0,22								0,31		0,15		
Oper. time red.			0,93								0,93		0,93		
Wind dir. red.			0,82								0,82		0,82		
Total reduction			0,17								0,23		0,12		
Total, real			55								76		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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: D - 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
0 1 Sum
4 076 4 076 8 152

		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	28 11:23 (4)	16:46	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38	15:43
2	09:06	10:39 (1)	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	25 11:23 (4)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	10:40 (1)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	21 11:22 (4)	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:06	10:41 (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	18 11:22 (4)	16:53	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:40
5	09:05	11:11 (4)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	11 11:22 (4)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29	15:40
6	09:04	11:12 (4)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	9 11:21 (4)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	11:15 (4)	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	4 11:19 (4)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
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	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01		17:10	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59		08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03		17:12	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29	16:14	15:36
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	3 08:55 (10)	16:12
14	08:57		07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:51 (10)	16:04
	16:07		17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	11 09:02 (10)	16:10
15	08:56		07:56	06:41	06:15	05:02	04:22	04:43	05:45	06:51	07:55	08:49 (10)	16:06
	16:09		17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	14 09:03 (10)	16:08
16	08:55		07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:47 (10)	16:08
	16:11		17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	17 09:04 (10)	16:06
17	08:53		07:51	06:20	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	16:04
	16:13		17:24	18:32	20:37	21:42	22:26	22:10	21:03	19:39	18:16	18 09:05 (10)	16:04
18	08:52		07:49	06:17	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	16:03
	16:15		17:26	18:33	20:38	21:44	22:27	22:08	21:01	19:36	18:13	20 09:05 (10)	16:02
19	08:50		07:46	06:15	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	16:01
	16:17		17:29	18:34	20:38	21:41	22:27	22:06	20:58	19:33	18:11	20 09:05 (10)	16:01
20	08:49		07:43	06:15	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	16:00
	16:19		17:31	18:35	20:38	21:43	22:27	22:05	20:56	19:30	18:08	20 09:05 (10)	15:59
21	08:47		07:41	06:14	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	16:00
	16:21		17:33	18:35	20:37	20:45	21:50	22:28	22:03	20:53	19:28	20 09:05 (10)	15:57
22	08:46		07:38	06:14	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	16:00
	16:23		17:36	18:34	20:39	20:48	21:52	22:28	22:01	20:50	19:25	20 09:05 (10)	15:55
23	08:44		07:35	06:14	06:19	05:54	04:47	04:21	04:57	06:02	07:08	08:13	16:00
	16:25		17:38	18:34	20:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	19 09:04 (10)
24	08:42		07:33	06:15	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	16:00
	16:28		17:40	18:34	20:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15 09:03 (10)
25	08:41		07:30	06:15	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	16:00
	16:30		17:43	18:33	20:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	11 08:01 (10)
26	08:39		07:28	06:15	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	16:00
	16:32		17:45	18:32	20:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	7 08:00 (10)
27	08:37		07:25	06:17	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	16:00
	16:34		17:47	18:31	20:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	08:32
28	08:35		07:22	06:19	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	15:48
	16:37		17:50	18:28	20:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48	08:34
29	08:33			07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	07:35	15:47
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	08:35
30	08:31			06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	07:37	15:44
	16:41			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	08:37
31	08:29			06:57	04:34	04:34	04:27	05:13	06:19		07:31	07:39	15:43
	16:44			19:59	22:07	22:07	22:07	21:44	20:26		16:40	15:44	08:37
Potential sun hours	227	262	365	429	515	539	539	475	386	321	241	207	781
Total, worst case	116	215								215			0,13
Sun reduction	0,13	0,22								0,31			0,13
Oper. time red.	0,93	0,93								0,93			0,93
Wind dir. red.	0,27	0,86								0,86			0,29
Total reduction	0,03	0,18								0,25			0,03
Total, real	4	38								53			26

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: E - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:32 21:10	04:32 22:10	04:27 22:26	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
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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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: F - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
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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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: G - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
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26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:03 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:00	04:23 22:27	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:36 21:05	04:36 22:05	04:26 22:26	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:43	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: H - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:32 21:10	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:42 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:32	06:30 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:20 21:21	04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:47 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:53 15:37
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31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:43	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: I - Bez nosaukuma (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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:08	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:33 16:38	08:39 15:43
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17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	04:21 22:25	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	06:05 20:41	04:54 21:45	04:21 22:26	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:14 16:01	09:03 15:36
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	04:21 22:27	04:52 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:16 15:59	09:04 15:36
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23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:27	04:58 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:05 15:37
24	08:42 16:28	07:33 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:22 22:27	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38
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29	08:33 16:39		07:02 19:54	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:47	06:15 20:31	07:20 19:05	07:27 18:45	08:35 15:46	09:07 15:42
30	08:31 16:41		06:59 19:57	05:36 21:05	04:36 22:05	04:25 22:26	05:11 21:45	06:17 20:29	07:22 19:02	07:29 18:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:40		09:06 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: J - Bez nosaukuma (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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:16 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
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13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:47 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:36	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:04 16:10	08:59 15:36
15	08:56 16:09	07:56 17:20	06:42 18:24	06:16 20:32	05:02 21:38	04:22 22:25	04:44 22:12	05:45 21:08	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:46 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:22 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:02 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:31	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:45	04:50 21:50	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:09 18:06	08:19 15:57	09:05 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:28	04:56 22:01	06:00 20:50	07:06 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:58	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:44 21:57	04:23 22:28	05:02 21:56	06:06 20:43	07:12 19:16	07:18 18:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14	07:20 18:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:24 22:28	05:06 21:52	06:11 20:37	07:16 19:11	07:22 18:50	08:31 15:49	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:42 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:25 18:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 18:46	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:37 21:05	04:36 22:06	04:26 22:27	05:11 21:46	06:17 20:29	07:23 19:02	07:29 18:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:44	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: K - Bezdelligas 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
0 1 Sum
4 076 4 076 8 152

		January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	09:50 (4)	08:27	09:14 (1)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34
	15:46	24	11:20 (3)	16:46	15	09:29 (1)	17:52	20:01	21:08	22:09	22:26	21:42	20:24
2	09:06	09:49 (4)	08:25	09:15 (1)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36
	15:47	25	11:20 (3)	16:48	12	09:27 (1)	17:54	20:04	21:10	22:10	22:26	21:39	20:21
3	09:06	09:48 (4)	08:23	09:17 (1)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38
	15:48	26	11:19 (3)	16:51	9	09:26 (1)	17:57	20:06	21:12	22:12	22:25	21:37	20:18
4	09:06	09:48 (4)	08:21	09:21 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41
	15:50	27	11:20 (3)	16:53	2	09:23 (1)	17:59	20:08	21:14	22:13	22:25	21:35	20:15
5	09:05	09:47 (4)	08:19	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	07:50
	15:51	28	11:20 (3)	16:56	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29
6	09:04	09:46 (4)	08:17	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	07:52
	15:53	29	11:20 (3)	16:58	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27
7	09:04	09:45 (4)	08:14	07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48	07:55
	15:54	29	11:19 (3)	17:00	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24
8	09:03	09:45 (4)	08:12	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50	07:57
	15:56	30	11:19 (3)	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22
9	09:02	09:44 (4)	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	07:59
	15:58	28	11:17 (3)	17:05	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20
10	09:01	09:44 (4)	08:08	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	07:55
	15:59	26	11:16 (3)	17:07	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18
11	09:00	09:44 (4)	08:05	06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	07:57
	16:01	20	10:04 (4)	17:10	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16
12	08:59	09:44 (4)	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	07:59
	16:03	20	10:04 (4)	17:12	18:17	20:26	21:31	22:23	22:17	21:16	19:53	18:29	16:14
13	08:58	09:44 (4)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:01
	16:05	21	10:05 (4)	17:15	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12
14	08:57	09:44 (4)	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:04
	16:07	21	10:05 (4)	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10
15	08:56	09:44 (4)	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:06
	16:09	23	10:07 (4)	17:19	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08
16	08:55	09:44 (4)	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	08:08
	16:11	23	10:07 (4)	17:22	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06
17	08:53	09:45 (4)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	08:10
	16:13	23	10:08 (4)	17:24	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04
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	08:13
	16:15	23	10:08 (4)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02
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	08:15
	16:17	23	10:08 (4)	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01
20	08:49	09:45 (4)	07:43	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	08:17
	16:19	23	10:08 (4)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59
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	08:19
	16:21	25	10:09 (4)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57
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	08:21
	16:23	28	10:09 (4)	17:36	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56
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	08:23
	16:25	30	10:09 (4)	17:38	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54
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	08:25
	16:28	31	10:08 (4)	17:40	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52
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	08:28
	16:30	33	10:08 (4)	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51
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	08:30
	16:32	35	10:08 (4)	17:45	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50
27	08:37	09:11 (1)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32	08:32
	16:35	34	10:07 (4)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48
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	08:34
	16:37	32	10:06 (4)	17:50	18:53	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47
29	08:33	09:12 (1)		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	08:35
	16:39	28	10:05 (4)		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46
30	08:31	09:12 (1)		07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37	08:37
	16:41	19	10:00 (4)		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44
31	08:29	09:13 (1)		06:57		04:34		05:13	06:19		07:32		09:07
	16:44	16	09:29 (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
Total, worst case	803		38									558	741
Sun reduction	0,13		0,22									0,15	0,13
Oper. time red.	0,93		0,93									0,93	0,93
Wind dir. red.	0,52		0,68									0,60	0,32
Total reduction	0,06		0,14									0,09	0,04
Total, real	51		5									48	28

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: L - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:45	08:27 16:46	09:27 (13) 17:52	07:20 20:01	06:54 21:07	05:34 22:09	04:33 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:34 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	09:28 (13) 17:54	07:17 20:03	06:51 21:10	05:31 22:10	04:31 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	09:33 (13) 17:56	07:14 20:06	06:48 21:12	05:29 22:12	04:30 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41
4	09:05 15:49	08:21 16:53	09:35 (13) 17:57	07:11 20:08	06:45 21:14	05:26 22:13	04:29 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:40
5	09:05 15:51	08:19 16:55	09:35 (13) 17:57	07:09 20:10	06:43 21:16	05:24 22:15	04:28 22:24	05:23 21:33	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39
6	09:04 15:52	08:17 16:58	09:35 (13) 17:57	07:06 20:12	06:40 21:18	05:22 22:16	04:27 22:23	05:25 21:30	06:31 20:10	07:35 18:46	07:45 16:26	08:48 15:39
7	09:04 15:54	08:14 17:00	09:35 (13) 17:57	07:03 20:14	06:37 21:21	05:19 22:22	04:26 22:22	05:27 21:28	06:34 20:07	07:37 18:43	07:48 16:24	08:49 15:38
8	09:03 15:56	08:12 17:02	09:35 (13) 17:57	07:01 20:17	06:34 21:23	05:17 22:18	04:33 22:21	05:30 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:37
9	09:02 15:57	08:10 17:05	09:35 (13) 17:57	06:58 20:19	06:32 21:25	05:15 22:19	04:34 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	09:35 (13) 17:57	06:55 20:21	06:29 21:27	05:12 22:21	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:35	07:54 16:18	08:54 15:36
11	09:00 16:01	08:05 17:10	09:35 (13) 17:57	06:52 20:23	06:26 21:29	05:10 22:21	04:37 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	09:35 (13) 17:57	06:50 20:25	06:23 21:31	05:08 22:22	04:39 22:17	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:35
13	08:58 16:04	08:00 17:14	09:35 (13) 17:57	06:47 20:28	06:21 21:33	05:06 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:26	08:01 16:12	08:58 15:35
14	08:57 16:06	09:35 (13) 17:17	09:35 (13) 17:57	06:44 20:30	06:18 21:36	05:04 22:24	04:42 22:14	05:42 21:11	06:48 19:47	07:53 18:24	08:04 16:10	08:59 15:35
15	08:56 16:08	09:34 (13) 17:19	09:35 (13) 17:57	06:41 20:32	06:15 21:38	05:02 22:25	04:41 22:13	05:44 21:08	06:50 19:44	07:55 18:21	08:06 16:08	08:54 15:35
16	08:54 16:10	09:32 (13) 17:21	09:35 (13) 17:57	06:38 20:34	06:12 21:40	05:00 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:18	08:08 16:06	08:54 15:35
17	08:53 16:12	09:30 (13) 17:24	09:35 (13) 17:57	06:36 20:36	06:10 21:42	04:58 22:26	04:41 22:10	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	08:54 15:35
18	08:52 16:14	09:29 (13) 17:26	09:35 (13) 17:57	06:33 20:39	06:07 21:44	04:56 22:27	04:48 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	08:54 15:35
19	08:50 16:17	09:27 (13) 17:29	09:35 (13) 17:57	06:30 20:41	06:04 21:46	04:54 22:27	04:41 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:15 16:00	08:54 15:35
20	08:49 16:19	09:25 (13) 17:31	09:35 (13) 17:57	06:27 20:43	06:02 21:48	04:52 22:27	04:41 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:59	08:54 15:35
21	08:47 16:21	09:23 (13) 17:33	09:35 (13) 17:57	06:25 20:45	05:59 21:50	04:50 22:28	04:41 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	08:54 15:36
22	08:46 16:23	09:21 (13) 17:36	09:35 (13) 17:57	06:22 20:48	05:56 21:52	04:48 22:28	04:41 22:01	05:59 20:50	07:05 19:25	08:11 18:03	08:21 15:55	08:54 15:36
23	08:44 16:25	09:19 (13) 17:38	09:35 (13) 17:57	06:19 20:50	05:54 21:53	04:46 22:28	04:41 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	08:54 15:37
24	08:42 16:27	09:20 (13) 17:40	09:35 (13) 17:57	06:16 20:52	05:51 21:55	04:45 22:28	04:41 21:58	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:52	08:54 15:37
25	08:41 16:30	09:20 (13) 17:43	09:35 (13) 17:57	06:13 20:54	05:49 21:57	04:43 22:28	04:42 21:56	06:06 20:42	07:12 19:16	08:17 17:58	08:27 15:51	08:54 15:38
26	08:39 16:32	09:21 (13) 17:45	09:35 (13) 17:57	06:11 20:56	05:46 21:59	04:41 22:28	04:42 21:54	06:08 20:40	07:14 19:13	08:19 17:53	08:29 15:49	08:54 15:39
27	08:37 16:34	09:21 (13) 17:47	09:35 (13) 17:57	06:08 20:54	05:44 22:01	04:40 22:28	04:43 21:52	06:10 20:37	07:16 19:11	08:22 17:50	08:31 15:48	08:54 15:40
28	08:35 16:37	09:22 (13) 17:50	09:35 (13) 17:57	06:05 21:01	05:41 22:02	04:38 22:27	04:43 21:50	06:12 20:34	07:18 19:08	08:24 17:48	08:33 15:47	08:54 15:41
29	08:33 16:39	09:22 (13) 17:50	09:35 (13) 17:57	06:02 21:03	05:39 22:04	04:37 22:27	04:44 21:48	06:14 20:32	07:20 19:05	08:27 17:45	08:35 15:45	08:54 15:42
30	08:31 16:41	09:23 (13) 17:50	09:35 (13) 17:57	06:59 21:05	05:36 22:06	04:35 22:27	04:45 21:46	06:17 20:29	07:22 19:02	08:29 17:43	08:37 15:44	08:54 15:43
31	08:29 16:44	09:25 (13) 17:50	09:35 (13) 17:57	06:57 21:05	05:34 22:07	04:34 22:27	04:44 21:44	06:19 20:26	07:31 19:02	08:31 17:40	08:39 15:44	08:54 15:44
Potential sun hours	227	262	365	429	516	539	539	475	386	321	241	207
Total, worst case	313	27										343
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	25	4										32

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: M - 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
0 1 Sum
4 076 4 076 8 152

	January			February			March			April		May	June
1	09:07		12:20 (11)	08:27		09:49 (12)	07:20		08:12 (13)	06:54	05:34	04:33	
	15:45	52	14:10 (10)	16:46	23	10:12 (12)	17:52	38	08:50 (13)	20:01	21:07	22:09	
2	09:06		12:22 (11)	08:25		09:49 (12)	07:17		08:12 (13)	06:51	05:31	04:31	
	15:47	51	14:11 (10)	16:48	22	10:11 (12)	17:54	37	08:49 (13)	20:03	21:10	22:10	
3	09:06		12:22 (11)	08:23		09:51 (12)	07:14		08:12 (13)	06:48	05:29	04:30	
	15:48	50	14:11 (10)	16:51	19	10:10 (12)	17:56	36	08:48 (13)	20:06	21:12	22:12	
4	09:05		12:24 (11)	08:21		09:52 (12)	07:11		08:13 (13)	06:45	05:26	04:29	
	15:49	48	14:11 (10)	16:53	16	10:08 (12)	17:59	34	08:47 (13)	20:08	21:14	22:13	
5	09:05		12:25 (11)	08:19		09:55 (12)	07:09		08:14 (13)	06:43	05:24	04:28	
	15:51	47	14:12 (10)	16:55	11	10:06 (12)	18:01	33	08:47 (13)	20:10	21:16	22:15	
6	09:04		12:28 (11)	08:16			07:06		08:15 (13)	06:40	05:22	04:27	
	15:52	44	14:13 (10)	16:58			18:03	30	08:45 (13)	20:12	21:18	22:16	
7	09:04		09:50 (12)	08:14			07:03		08:16 (13)	06:37	05:19	04:26	
	15:54	42	14:14 (10)	17:00			18:06	27	08:43 (13)	20:14	21:21	22:17	
8	09:03		09:47 (12)	08:12			07:01		08:17 (13)	06:34	05:17	04:25	
	15:56	47	14:13 (10)	17:02			18:08	24	08:41 (13)	20:17	21:23	22:18	
9	09:02		09:46 (12)	08:10			06:58		08:19 (13)	06:32	05:15	04:25	
	15:57	50	14:14 (10)	17:05			18:10	18	08:37 (13)	20:19	21:25	22:19	
10	09:01		09:46 (12)	08:07			06:55		08:24 (13)	06:29	05:12	04:24	
	15:59	52	14:15 (10)	17:07			18:12	10	08:34 (13)	20:21	21:27	22:20	
11	09:00		09:46 (12)	08:05			06:52			06:26	05:10	04:23	
	16:01	53	14:15 (10)	17:10			18:15			20:23	21:29	22:21	
12	08:59		09:45 (12)	08:03			06:50			06:23	05:08	04:23	
	16:03	55	14:15 (10)	17:12			18:17			20:25	21:31	22:22	
13	08:58		09:45 (12)	08:00		08:30 (13)	06:47			06:21	05:06	04:22	
	16:05	56	14:16 (10)	17:14	9	08:39 (13)	18:19			20:28	21:33	22:23	
14	08:57		09:44 (12)	07:58		08:27 (13)	06:44			06:18	05:04	04:22	
	16:06	58	14:16 (10)	17:17	15	08:42 (13)	18:21			20:30	21:35	22:24	
15	08:56		09:44 (12)	07:55		08:25 (13)	06:41			06:15	05:02	04:21	
	16:08	58	14:16 (10)	17:19	20	08:45 (13)	18:24			20:32	21:38	22:25	
16	08:54		09:44 (12)	07:53		08:22 (13)	06:38			06:12	05:00	04:21	
	16:10	59	14:16 (10)	17:21	24	08:46 (13)	18:26			20:34	21:40	22:25	
17	08:53		09:43 (12)	07:51		08:19 (13)	06:36			06:10	04:58	04:21	
	16:12	61	14:16 (10)	17:24	28	08:47 (13)	18:28			20:36	21:42	22:26	
18	08:52		09:44 (12)	07:48		08:17 (13)	06:33			06:07	04:56	04:21	
	16:14	60	14:17 (10)	17:26	32	08:49 (13)	18:30			20:39	21:44	22:26	
19	08:50		09:44 (12)	07:46		08:15 (13)	06:30			06:04	04:54	04:21	
	16:17	61	14:17 (10)	17:29	34	08:49 (13)	18:32			20:41	21:46	22:27	
20	08:49		09:43 (12)	07:43		08:14 (13)	06:27			06:02	04:52	04:21	
	16:19	60	14:16 (10)	17:31	35	08:49 (13)	18:35			20:43	21:48	22:27	
21	08:47		09:43 (12)	07:40		08:14 (13)	06:25			05:59	04:50	04:21	
	16:21	60	14:16 (10)	17:33	37	08:51 (13)	18:37			20:45	21:50	22:28	
22	08:46		09:43 (12)	07:38		08:13 (13)	06:22			05:57	04:48	04:21	
	16:23	60	14:16 (10)	17:36	38	08:51 (13)	18:39			20:48	21:51	22:28	
23	08:44		09:44 (12)	07:35		08:12 (13)	06:19			05:54	04:46	04:21	
	16:25	57	14:15 (10)	17:38	39	08:51 (13)	18:41			20:50	21:53	22:28	
24	08:42		09:44 (12)	07:33		08:12 (13)	06:16			05:51	04:45	04:22	
	16:27	57	14:15 (10)	17:40	40	08:52 (13)	18:43			20:52	21:55	22:28	
25	08:41		09:44 (12)	07:30		08:12 (13)	06:13			05:49	04:43	04:22	
	16:30	54	14:14 (10)	17:43	39	08:51 (13)	18:46			20:54	21:57	22:28	
26	08:39		09:45 (12)	07:27		08:11 (13)	06:10			05:46	04:41	04:22	
	16:32	51	14:13 (10)	17:45	40	08:51 (13)	18:48			20:56	21:59	22:28	
27	08:37		09:45 (12)	07:25		08:11 (13)	06:08			05:44	04:40	04:23	
	16:34	49	14:12 (10)	17:47	40	08:51 (13)	18:50			20:59	22:01	22:28	
28	08:35		09:46 (12)	07:22		08:12 (13)	06:05			05:41	04:38	04:24	
	16:37	44	14:11 (10)	17:50	39	08:51 (13)	18:52			21:01	22:02	22:27	
29	08:33		09:45 (12)				07:02			05:39	04:37	04:24	
	16:39	38	14:07 (10)				19:55			21:03	22:04	22:27	
30	08:31		09:46 (12)				06:59			05:36	04:35	04:25	
	16:41	27	10:13 (12)				19:57			21:05	22:06	22:27	
31	08:29		09:47 (12)				06:57				04:34		
	16:44	26	10:13 (12)				19:59				22:07		
Potential sun hours	227			262			365		429	515		539	
Total, worst case	1587			600			287						
Sun reduction	0,13			0,22			0,37						
Oper. time red.	0,93			0,93			0,93						
Wind dir. red.	0,44			0,81			0,85						
Total reduction	0,05			0,17			0,29						
Total, real	84			100			83						

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)

SHADOW - Calendar

Shadow receptor: M - 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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:24	07:34	08:39
	22:26	21:41	20:23	18:59	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	08:59 (13)	07:41
	22:24	21:35	20:15	18:51	15	09:14 (13)
5	04:30	05:23	06:29	07:33	08:55 (13)	07:43
	22:24	21:32	20:12	18:48	22	09:17 (13)
6	04:31	05:25	06:31	07:35	08:53 (13)	07:45
	22:23	21:30	20:10	18:46	25	09:18 (13)
7	04:32	05:27	06:34	07:37	08:51 (13)	07:47
	22:22	21:28	20:07	18:43	28	09:19 (13)
8	04:33	05:30	06:36	07:40	08:50 (13)	07:50
	22:21	21:26	20:04	18:40	31	09:21 (13)
9	04:35	05:32	06:38	07:42	08:48 (13)	07:52
	22:20	21:23	20:01	18:37	34	09:22 (13)
10	04:36	05:34	06:40	07:44	08:47 (13)	07:54
	22:19	21:21	19:58	18:35	35	09:22 (13)
11	04:37	05:36	06:42	07:46	08:46 (13)	07:57
	22:18	21:18	19:56	18:32	36	09:22 (13)
12	04:39	05:38	06:44	07:48	08:46 (13)	07:59
	22:16	21:16	19:53	18:29	37	09:23 (13)
13	04:40	05:40	06:46	07:51	08:45 (13)	08:01
	22:15	21:13	19:50	18:26	38	09:23 (13)
14	04:42	05:42	06:48	07:53	08:44 (13)	08:03
	22:14	21:11	19:47	18:24	39	09:23 (13)
15	04:43	05:44	06:50	07:55	08:44 (13)	08:06
	22:12	21:08	19:44	18:21	40	09:24 (13)
16	04:45	05:47	06:53	07:57	08:43 (13)	08:08
	22:11	21:06	19:42	18:18	40	09:23 (13)
17	04:47	05:49	06:55	07:59	08:43 (13)	08:10
	22:09	21:03	19:39	18:16	39	09:22 (13)
18	04:48	05:51	06:57	08:02	08:44 (13)	08:12
	22:08	21:01	19:36	18:13	39	09:23 (13)
19	04:50	05:53	06:59	08:04	08:43 (13)	08:15
	22:06	20:58	19:33	18:10	39	09:22 (13)
20	04:52	05:55	07:01	08:06	08:44 (13)	08:17
	22:05	20:56	19:30	18:08	38	09:22 (13)
21	04:54	05:57	07:03	08:08	08:44 (13)	08:19
	22:03	20:53	19:27	18:05	37	09:21 (13)
22	04:55	05:59	07:05	08:11	08:45 (13)	08:21
	22:01	20:50	19:25	18:03	35	09:20 (13)
23	04:57	06:02	07:07	08:13	08:45 (13)	08:23
	21:59	20:48	19:22	18:00	34	09:19 (13)
24	04:59	06:04	07:09	08:15	08:47 (13)	08:25
	21:58	20:45	19:19	17:58	31	09:18 (13)
25	05:01	06:06	07:12	07:18	07:50 (13)	08:27
	21:56	20:42	19:16	16:55	27	08:17 (13)
26	05:03	06:08	07:14	07:20	07:52 (13)	08:29
	21:54	20:40	19:13	16:53	23	08:15 (13)
27	05:05	06:10	07:16	07:22	07:55 (13)	08:31
	21:52	20:37	19:11	16:50	19	08:14 (13)
28	05:07	06:12	07:18	07:24	07:57 (13)	08:33
	21:50	20:34	19:08	16:48	14	08:11 (13)
29	05:09	06:14	07:20	07:27	08:00 (13)	08:35
	21:48	20:32	19:05	16:45	8	08:08 (13)
30	05:11	06:17	07:22	07:29	08:37	09:26 (12)
	21:46	20:29	19:02	16:43	15:44	15:43
31	05:13	06:19		07:31		09:07
	21:44	20:26		16:40		15:44
Potential sun hours	539	475	386	321	241	207
Total, worst case				803	1147	1637
Sun reduction				0,31	0,15	0,13
Oper. time red.				0,93	0,93	0,93
Wind dir. red.				0,85	0,48	0,29
Total reduction				0,24	0,07	0,03
Total, real				195	80	57

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

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

SHADOW - Calendar

Shadow receptor: N - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:08	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:33 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:09	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:20	07:26 18:57	07:36 16:36	08:40 15:42
3	09:05 15:48	08:23 16:51	07:14 17:56	06:48 20:05	05:29 21:12	04:31 22:11	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:42 15:41
4	09:05 15:50	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:29 22:24	05:21 21:34	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:40
5	09:04 15:51	08:18 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:15	04:31 22:22	05:26 21:30	06:31 20:09	07:35 18:45	07:45 16:27	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:19 21:20	04:26 22:17	04:32 22:21	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:02 15:56	08:12 17:03	07:00 18:08	06:34 20:16	05:17 21:22	04:26 22:18	04:33 22:20	05:30 21:25	06:36 20:04	07:39 18:40	07:49 16:22	08:50 15:37
9	09:02 15:57	08:09 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:19	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:18	05:34 21:20	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:24 22:21	04:38 22:17	05:36 21:18	06:42 19:55	07:46 18:32	07:56 16:16	08:55 15:36
12	08:59 16:03	08:02 17:12	06:49 18:17	06:23 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	06:21 20:27	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:50 18:26	08:01 16:12	08:57 15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:13	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:55 16:09	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:37	04:22 22:24	04:44 22:12	05:45 21:08	06:50 19:44	07:55 18:21	08:05 16:08	08:59 15:35
16	08:54 16:11	07:53 17:22	06:38 18:26	06:12 20:34	05:00 21:39	04:21 22:25	04:45 22:11	05:47 21:06	06:53 19:41	07:57 18:18	08:08 16:06	09:00 15:35
17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	04:21 22:25	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	04:21 22:26	04:49 22:08	05:51 21:00	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	06:04 20:41	04:54 21:45	04:21 22:26	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:14 16:00	09:03 15:35
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	04:21 22:27	04:52 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:16 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:04 15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 21:51	04:21 22:27	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:55	09:05 15:37
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:49	04:47 21:53	04:22 22:27	04:57 21:59	06:02 20:47	07:07 19:22	08:13 18:00	08:23 15:54	09:05 15:37
24	08:42 16:28	07:33 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:22 22:27	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:27	05:01 21:55	06:06 20:42	07:12 19:16	07:17 16:55	08:27 15:51	09:06 15:38
26	08:38 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:42 21:58	04:23 22:27	05:03 21:53	06:08 20:39	07:14 19:13	07:20 16:53	08:29 15:50	09:06 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 22:00	04:23 22:27	05:05 21:51	06:10 20:37	07:16 19:10	07:22 16:50	08:31 15:48	09:06 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:38 22:02	04:24 22:27	05:07 21:49	06:12 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:54	05:39 21:03	04:37 22:04	04:24 22:27	05:09 21:47	06:14 20:31	07:20 19:05	07:26 16:45	08:35 15:46	09:07 15:42
30	08:31 16:41		06:59 19:57	05:36 21:05	04:36 22:05	04:25 22:26	05:11 21:45	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:44	09:07 15:43
31	08:29 16:44		06:56 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:40		09:06 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: O - 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

0	1	Sum
4 076	4 076	8 152

January		February		March		April		May		June	
1	09:07 15:46		08:27 16:46		07:20 17:52		06:54 20:01		05:34 21:08		04:33 22:09
2	09:06 15:47		08:25 16:49	21	09:44 (2) 17:54	21	07:51 (5) 20:04	53	08:39 (3) 21:10		04:32 22:10
3	09:06 15:48		08:23 16:51	19	09:46 (2) 17:57	21	07:50 (5) 20:06	51	08:38 (3) 21:12		04:31 22:12
4	09:06 15:50		08:21 16:53	16	09:48 (2) 17:59	22	07:50 (5) 20:08	46	08:35 (3) 21:14		04:30 22:13
5	09:05 15:51		08:19 16:56	13	09:52 (2) 18:01	23	07:50 (5) 20:10	40	07:09 (1) 21:16		04:29 22:15
6	09:04 15:53		08:17 16:58	5	09:57 (2) 18:04	22	07:51 (5) 20:12	36	08:31 (3) 21:19		04:28 22:16
7	09:04 15:54		08:14 17:00		18:06 18:08	28	07:50 (5) 20:17	28	07:04 (1) 21:23		04:27 22:18
8	09:03 15:56		08:12 17:03		18:10 18:19	11	07:51 (5) 20:23	11	07:15 (1) 21:29		04:26 22:19
9	09:02 15:58		08:10 17:05		18:15 18:22	13	07:52 (5) 20:26	13	06:58 (1) 21:31		04:25 22:22
10	09:01 15:59	5	09:45 (2) 17:08		18:13 18:24	16	07:54 (5) 20:29	16	06:57 (1) 21:34		04:24 22:25
11	09:00 16:01	10	09:43 (2) 17:10		18:15 18:26	15	08:06 (5) 20:33	15	07:13 (1) 21:39		04:24 22:26
12	08:59 16:03	12	09:42 (2) 17:12		18:15 18:27	12	08:02 (5) 20:34	12	06:59 (1) 21:40		04:23 22:27
13	08:58 16:05	15	09:41 (2) 17:15		18:17 18:28	10	06:24 20:37	10	06:59 (1) 21:42		04:23 22:28
14	08:57 16:07	17	09:40 (2) 17:17		18:19 18:30	4	06:28 20:39	4	07:09 (1) 21:44		04:22 22:29
15	08:56 16:09	19	09:40 (2) 17:19		18:22 18:33		06:18 20:41		07:03 (1) 21:46		04:22 22:30
16	08:55 16:11	21	09:39 (2) 17:22		18:24 18:35	14	07:23 (3) 20:43		05:02 21:48		04:22 22:31
17	08:53 16:13	21	09:39 (2) 17:24		18:26 18:37	20	07:37 (3) 20:45		05:00 21:50		04:21 22:32
18	08:52 16:15	23	09:39 (2) 17:27		18:28 18:39	24	07:19 (3) 20:47		05:00 21:52		04:21 22:33
19	08:50 16:17	23	10:00 (2) 17:29		18:26 18:37	30	07:39 (3) 20:49		05:00 21:54		04:21 22:34
20	08:49 16:19	24	09:39 (2) 17:31		18:30 18:41	32	07:17 (3) 20:51		05:00 21:56		04:21 22:35
21	08:47 16:21	25	10:03 (2) 17:34		18:33 18:44	34	07:17 (3) 20:53		05:00 21:58		04:21 22:36
22	08:46 16:23	25	09:39 (2) 17:36		18:35 18:46	35	07:11 (3) 20:55		05:00 21:59		04:21 22:37
23	08:44 16:26	26	10:04 (2) 17:38		18:37 18:48	47	07:45 (3) 20:57		05:00 22:01		04:21 22:38
24	08:42 16:28	26	09:39 (2) 17:41		18:42 18:53	53	07:45 (3) 21:00		05:00 22:02		04:21 22:39
25	08:41 16:30	26	10:05 (2) 17:43		18:44 18:55	53	06:47 (4) 21:02		05:00 22:04		04:21 22:40
26	08:39 16:32	26	09:39 (2) 17:45	7	07:59 (5) 18:46	55	06:43 (4) 21:04		05:00 22:06		04:21 22:41
27	08:37 16:35	26	10:06 (2) 17:48	14	08:06 (5) 18:50	58	07:45 (3) 21:06		05:00 22:08		04:21 22:42
28	08:35 16:37	25	09:40 (2) 17:50	17	07:55 (5) 18:53	59	06:41 (4) 21:08		05:00 22:10		04:21 22:43
29	08:33 16:39	25	10:06 (2) 17:52	19	08:11 (5) 19:00	60	06:40 (4) 21:10		05:00 22:12		04:21 22:44
30	08:31 16:42	24	09:41 (2) 17:54		08:12 (5) 19:02	59	07:38 (4) 21:12		05:00 22:14		04:21 22:45
31	08:29 16:44	23	10:05 (2) 17:56		19:59 20:00	57	08:42 (3) 21:14		05:00 22:16		04:21 22:46
Potential sun hours 227			262		365		429		515		539
Total, worst case 467			131		926		351		0,46		0,93
Sun reduction 0,13			0,22		0,37		0,46		0,93		0,99
Oper. time red. 0,93			0,93		0,93		0,93		0,99		0,99
Wind dir. red. 0,59			0,73		0,96		0,99		0,99		0,99
Total reduction 0,07			0,15		0,33		0,42		0,42		0,42
Total, real 33			20		304		148		148		148

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

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

SHADOW - Calendar

Shadow receptor: O - 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
 0 1 Sum
 4 076 4 076 8 152

	July	August	September	October	November	December	
1	04:26	05:15	06:21	06:57 (1)	07:25	07:34	08:39
	22:26	21:42	20:24	15 07:12 (1)	19:00	16:38	15:44
2	04:27	05:17	06:23	06:56 (1)	07:27	07:36	08:41
	22:26	21:39	20:21	16 07:12 (1)	18:57	16:36	15:42
3	04:28	05:19	06:25	06:56 (1)	07:29	08:33 (5)	07:38
	22:25	21:37	20:18	16 07:12 (1)	18:54	10 08:43 (5)	16:34
4	04:29	05:22	06:27	06:58 (1)	07:31	08:30 (5)	07:41
	22:24	21:35	20:15	14 07:12 (1)	18:51	15 08:45 (5)	16:31
5	04:30	05:24	06:30	07:00 (1)	07:33	08:28 (5)	07:43
	22:24	21:33	20:13	11 07:11 (1)	18:49	18 08:46 (5)	16:29
6	04:31	05:26	06:32	07:02 (1)	07:35	08:27 (5)	07:45
	22:23	21:30	20:10	27 08:22 (3)	18:46	19 08:46 (5)	16:27
7	04:32	05:28	06:34	07:04 (1)	07:38	08:26 (5)	07:48
	22:22	21:28	20:07	36 08:26 (3)	18:43	22 08:48 (5)	16:25
8	04:34	05:30	06:36	07:34 (4)	07:40	08:25 (5)	07:50
	22:21	21:26	20:04	40 08:28 (3)	18:40	23 08:48 (5)	16:22
9	04:35	05:32	06:38	07:33 (4)	07:42	08:25 (5)	07:52
	22:20	21:23	20:01	46 08:30 (3)	18:38	22 08:47 (5)	16:20
10	04:36	05:34	06:40	07:31 (4)	07:44	08:24 (5)	07:55
	22:19	21:21	19:59	50 08:31 (3)	18:35	23 08:47 (5)	16:18
11	04:38	05:36	06:42	07:30 (4)	07:46	08:25 (5)	07:57
	22:18	21:18	19:56	54 08:31 (3)	18:32	22 08:47 (5)	16:16
12	04:39	05:38	06:44	07:30 (4)	07:49	08:25 (5)	07:59
	22:17	21:16	19:53	56 08:32 (3)	18:29	21 08:46 (5)	16:14
13	04:41	05:41	06:47	07:29 (4)	07:51	08:25 (5)	08:01
	22:15	21:14	19:50	57 08:32 (3)	18:27	20 08:45 (5)	16:12
14	04:42	05:43	06:49	07:29 (4)	07:53	08:26 (5)	08:04
	22:14	21:11	19:47	59 08:33 (3)	18:24	18 08:44 (5)	16:10
15	04:44	05:45	06:51	07:29 (4)	07:55	08:27 (5)	08:06
	22:13	21:09	19:45	59 08:33 (3)	18:21	15 08:42 (5)	16:08
16	04:45	05:47	06:53	07:29 (4)	07:57	08:28 (5)	08:08
	22:11	21:06	19:42	58 08:32 (3)	18:19	12 08:40 (5)	16:06
17	04:47	05:49	06:55	07:30 (4)	08:00	08:33 (5)	08:10
	22:10	21:03	19:39	57 08:33 (3)	18:16	4 08:37 (5)	16:04
18	04:49	05:51	06:57	07:30 (4)	08:02	08:13	08:13
	22:08	21:01	19:36	57 08:33 (3)	18:13	16:02	09:39 (2)
19	04:50	05:53	06:59	07:31 (4)	08:04	08:15	09:14 (2)
	22:06	20:58	19:33	53 08:32 (3)	18:11	16:01	09:40 (2)
20	04:52	05:56	07:01	07:33 (4)	08:06	08:17	09:14 (2)
	22:05	20:56	19:31	47 08:31 (3)	18:08	15:59	09:39 (2)
21	04:54	05:58	07:03	07:37 (4)	08:09	08:19	09:15 (2)
	22:03	20:53	19:28	38 08:31 (3)	18:06	15:57	09:40 (2)
22	04:56	06:00	07:06	07:56 (3)	08:11	08:21	09:15 (2)
	22:01	20:51	19:25	34 08:30 (3)	18:03	15:56	09:39 (2)
23	04:58	06:02	07:08	07:56 (3)	08:13	08:23	09:16 (2)
	22:00	20:48	19:22	32 08:28 (3)	18:00	15:54	09:40 (2)
24	05:00	06:04	07:10	07:56 (3)	08:15	08:25	09:16 (2)
	21:58	20:45	19:19	31 08:27 (3)	17:58	15:53	09:39 (2)
25	05:01	06:06	07:12	07:57 (3)	07:18	08:27	09:17 (2)
	21:56	20:43	19:16	28 08:25 (3)	16:55	15:51	09:38 (2)
26	05:03	06:08	07:14	07:58 (3)	07:20	08:30	09:19 (2)
	21:54	20:40	19:14	25 08:23 (3)	16:53	15:50	09:39 (2)
27	05:05	06:10	07:16	08:00 (3)	07:22	08:32	09:19 (2)
	21:52	20:37	19:11	22 08:22 (3)	16:50	15:48	09:38 (2)
28	05:07	06:13	07:18	08:02 (3)	07:25	08:33	09:20 (2)
	21:50	20:34	19:08	17 08:19 (3)	16:48	15:47	09:37 (2)
29	05:09	06:15	07:03 (1)	07:20	08:06 (3)	07:27	08:35
	21:48	20:32	5 07:08 (1)	19:05	8 08:14 (3)	16:45	15:46
30	05:11	06:17	07:00 (1)	07:23	07:29	08:37	09:24 (2)
	21:46	20:29	10 07:10 (1)	19:02	16:43	15:45	09:36 (2)
31	05:13	06:19	06:58 (1)	07:31	07:31	08:37	09:24 (2)
	21:44	20:26	13 07:11 (1)	16:41	16:41	15:44	09:07
Potential sun hours	538	474	386	321	241	207	16
Total, worst case		28	1063	264	529	16	0,13
Sun reduction		0,55	0,43	0,31	0,15		0,93
Oper. time red.		0,93	0,93	0,93	0,93		0,59
Wind dir. red.		1,00	0,98	0,91	0,59		0,07
Total reduction		0,51	0,39	0,26	0,08		1
Total, real		14	417	69	44		

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

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes 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: P - 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

0	1	Sum
4 076	4 076	8 152

January		February		March		April		May		June	
1	09:07 15:46		08:27 16:46		07:20 17:52		06:54 20:01		05:34 21:08		04:33 22:09
2	09:06 15:47		08:25 16:49	25	09:47 (2) 17:17	17	07:48 (5) 20:04	65	07:28 (4) 21:10		04:32 22:10
3	09:06 15:48		08:23 16:51	23	09:48 (2) 17:57	19	07:46 (5) 20:06	65	07:27 (4) 21:12		04:31 22:12
4	09:06 15:50		08:21 16:53	21	09:50 (2) 17:59	22	07:46 (5) 20:08	66	07:27 (4) 21:14		04:30 22:13
5	09:05 15:51		08:19 16:56	18	09:51 (2) 18:01	23	07:45 (5) 20:10	66	07:27 (4) 21:16		04:29 22:15
6	09:04 15:53		08:17 16:58	15	09:55 (2) 18:04	24	07:45 (5) 20:12	65	07:26 (4) 21:19		04:28 22:16
7	09:04 15:54		08:14 17:00	8	10:03 (2) 18:04	24	07:44 (5) 20:15	64	07:27 (4) 21:21		04:27 22:17
8	09:03 15:56		08:12 17:03		07:01 18:08	24	07:44 (5) 20:17	62	07:27 (4) 21:23		04:26 22:18
9	09:02 15:58	3	09:53 (2) 17:05		06:58 18:10	23	07:45 (5) 20:19	59	06:58 (1) 21:25		04:25 22:19
10	09:01 15:59	9	09:47 (2) 17:08		06:55 18:13	22	07:45 (5) 20:21	55	06:55 (1) 21:27		04:24 22:20
11	09:00 16:01		09:47 (2) 17:10		06:53 18:15	22	07:45 (5) 20:23	56	06:53 (1) 21:29		04:24 22:21
12	08:59 16:03	12	09:59 (2) 17:12		06:50 18:17	20	07:46 (5) 20:26	52	06:50 (1) 21:31		04:23 22:22
13	08:58 16:05	15	10:00 (2) 17:15		06:47 18:19	18	07:48 (5) 20:28	47	06:47 (1) 21:34		04:23 22:23
14	08:57 16:07	17	10:02 (2) 17:18		06:44 18:22	13	08:01 (5) 20:30	37	08:20 (3) 21:36		04:22 22:24
15	08:56 16:09	19	10:03 (2) 17:19		06:41 18:24	8	07:59 (5) 20:32	35	06:45 (1) 21:38		04:22 22:25
16	08:55 16:11	20	10:04 (2) 17:22		06:39 18:26		06:15 20:34	25	08:13 (3) 21:40		04:21 22:26
17	08:53 16:13	22	10:05 (2) 17:24		06:36 18:28		06:13 20:37	16	06:45 (1) 21:42		04:21 22:27
18	08:52 16:15	23	10:06 (2) 17:27		06:33 18:30		06:10 20:39	15	06:45 (1) 21:44		04:21 22:27
19	08:50 16:17	24	10:07 (2) 17:29		06:30 18:33		06:07 20:41	12	06:46 (1) 21:46		04:21 22:27
20	08:49 16:19	25	10:08 (2) 17:31		06:28 18:35		06:05 20:43	9	06:57 (1) 21:48		04:21 22:27
21	08:47 16:21	26	10:08 (2) 17:34		06:25 18:37		06:02 20:45		04:52 21:50		04:21 22:28
22	08:46 16:23	27	10:09 (2) 17:36		06:22 18:39	15	07:10 (3) 20:48		04:50 21:52		04:21 22:28
23	08:44 16:26	28	10:10 (2) 17:38		06:19 18:42	22	07:06 (3) 20:50		04:48 21:53		04:21 22:28
24	08:42 16:28	28	10:10 (2) 17:38		06:16 18:44	27	07:03 (3) 20:52		04:46 21:55		04:21 22:28
25	08:41 16:30	29	10:11 (2) 17:41		06:14 18:46	30	07:01 (3) 20:54		04:45 21:57		04:21 22:28
26	08:39 16:32	29	10:11 (2) 17:43		06:11 18:48	34	07:31 (3) 20:56		04:43 21:59		04:21 22:28
27	08:37 16:35	28	10:11 (2) 17:45		06:08 18:50		07:00 (3) 20:58		04:42 22:01		04:21 22:28
28	08:35 16:37	29	10:12 (2) 17:48	5	07:56 (5) 08:01 (5)	46	06:34 (3) 20:59		04:40 22:02		04:21 22:28
29	08:33 16:39	28	10:12 (2) 17:50	12	07:52 (5) 08:04 (5)	53	06:34 (4) 21:01		04:39 22:02		04:21 22:27
30	08:31 16:42	27	10:11 (2) 17:52		07:02 19:55	58	07:32 (4) 21:03		04:37 22:04		04:21 22:27
31	08:29 16:44	27	10:11 (2) 17:54		07:00 19:57	61	07:31 (4) 21:05		04:36 22:06		04:21 22:27
Potential sun hours 227			262		365		429		515		539
Total, worst case		520		127		723		871			
Sun reduction		0,13		0,22		0,37		0,46			
Oper. time red.		0,93		0,93		0,93		0,93			
Wind dir. red.		0,57		0,62		0,96		0,99			
Total reduction		0,07		0,13		0,33		0,42			
Total, real		36		16		237		369			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: P - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 21:42	06:21 20:24	07:25 19:00	08:26 (5) 16:38	08:39 15:44
2	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57	08:24 (5) 16:36	08:41 15:42
3	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	08:23 (5) 16:34	08:43 15:41
4	04:29 22:24	05:22 21:35	06:27 20:15	07:31 18:51	08:22 (5) 16:31	08:44 15:41
5	04:30 22:24	05:24 21:33	06:30 20:13	07:33 18:49	08:21 (5) 16:29	09:24 (2) 15:40
6	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	08:20 (5) 16:27	09:21 (2) 15:39
7	04:32 22:22	05:28 21:28	06:34 20:07	07:38 18:43	08:21 (5) 16:25	09:34 (2) 15:38
8	04:34 22:21	05:30 21:26	06:36 20:04	07:40 18:40	08:20 (5) 16:22	09:38 (2) 15:38
9	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:38	08:20 (5) 16:20	09:17 (2) 15:37
10	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	08:20 (5) 16:18	09:17 (2) 15:37
11	04:38 22:18	05:36 21:18	06:42 19:56	07:46 18:32	08:21 (5) 16:16	09:16 (2) 15:36
12	04:39 22:17	05:38 21:16	06:44 19:53	07:49 18:29	08:22 (5) 16:14	09:16 (2) 15:36
13	04:41 22:15	05:41 21:14	06:47 19:50	07:51 18:27	08:23 (5) 16:12	09:15 (2) 15:36
14	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:26 (5) 16:10	09:16 (2) 15:35
15	04:44 22:13	05:45 21:09	06:51 19:45	07:55 18:21	08:06 16:08	09:16 (2) 15:35
16	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:16 (2) 15:35
17	04:47 22:10	05:49 21:03	06:55 19:39	07:47 (3) 18:16	08:10 16:04	09:17 (2) 15:35
18	04:49 22:08	05:51 21:01	06:57 19:36	07:48 (3) 18:13	08:13 16:02	09:16 (2) 15:35
19	04:50 22:06	05:53 20:58	06:59 19:33	07:48 (3) 18:11	08:15 16:01	09:17 (2) 15:36
20	04:52 22:05	05:56 20:56	07:01 19:31	07:50 (3) 18:08	08:17 15:59	09:17 (2) 15:36
21	04:54 22:03	05:58 20:53	07:03 19:28	07:51 (3) 18:06	08:19 15:57	09:18 (2) 15:36
22	04:56 22:01	06:00 20:51	07:06 19:25	07:53 (3) 18:03	08:21 15:56	09:18 (2) 15:37
23	04:58 22:00	06:02 20:48	07:08 19:22	07:57 (3) 18:00	08:23 15:54	09:20 (2) 15:37
24	05:00 21:58	06:04 20:45	07:10 19:19	08:06 (3) 17:58	08:25 15:53	09:20 (2) 15:38
25	05:01 21:56	06:06 20:43	07:12 19:16	07:18 16:55	08:27 15:51	09:21 (2) 15:39
26	05:03 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:30 15:50	09:22 (2) 15:39
27	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:32 15:48	09:23 (2) 15:40
28	05:07 21:50	06:13 20:34	07:18 19:08	07:25 16:48	08:33 15:47	09:24 (2) 15:41
29	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:25 (2) 15:42
30	05:11 21:46	06:17 20:29	07:23 19:02	07:29 16:43	08:37 15:45	09:27 (2) 15:43
31	05:13 21:44	06:19 20:26	07:25 19:00	07:31 16:41	08:39 15:44	09:29 (2) 15:44
Potential sun hours	538	474	386	321	241	207
Total, worst case		203	1144	286	609	27
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.		0,99	0,99	0,92	0,57	0,57
Total reduction		0,50	0,40	0,26	0,08	0,07
Total, real		102	452	75	50	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: Q - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June
1	09:07 15:46	08:27 16:46	09:36 (2) 09:49 (2)	07:20 17:52	06:54 20:01	05:34 21:08
2	09:06 15:47	08:25 16:49	09:38 (2) 09:47 (2)	07:17 17:54	06:51 20:04	05:32 21:10
3	09:06 15:48	08:23 16:51		07:14 17:57	06:48 20:06	05:29 21:12
4	09:06 15:50	08:21 16:53		07:12 17:59	06:46 20:08	05:27 21:14
5	09:05 15:51	08:19 16:56		07:10 18:01	06:43 20:10	05:24 21:16
6	09:04 15:53	08:17 16:58		07:06 18:04	06:40 20:12	05:22 21:19
7	09:04 15:54	08:14 17:00		07:04 18:06	06:37 20:15	05:20 21:21
8	09:03 15:56	08:12 17:03		07:01 18:08	06:35 20:17	05:17 21:23
9	09:02 15:58	08:10 17:05		06:58 18:10	06:32 20:19	05:15 21:25
10	09:01 15:59	08:08 17:08		06:55 18:13	06:29 20:21	05:13 21:27
11	09:00 16:01	08:05 17:10		06:53 18:15	06:26 20:23	05:11 21:29
12	08:59 16:03	08:03 17:12		06:50 18:17	06:24 20:26	05:08 21:31
13	08:58 16:05	09:37 (2) 09:41 (2)	08:01 17:15	06:47 18:19	06:21 20:28	05:06 21:34
14	08:57 16:07	09:35 (2) 09:43 (2)	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:36
15	08:56 16:09	09:34 (2) 09:45 (2)	07:56 17:19	06:42 18:24	06:15 20:32	05:02 21:38
16	08:55 16:11	09:32 (2) 09:46 (2)	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40
17	08:53 16:13	09:31 (2) 09:48 (2)	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42
18	08:52 16:15	09:30 (2) 09:48 (2)	07:48 17:27	06:33 18:31	06:07 20:39	04:56 21:44
19	08:50 16:17	09:30 (2) 09:49 (2)	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46
20	08:49 16:19	09:30 (2) 09:50 (2)	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48
21	08:47 16:21	09:30 (2) 09:50 (2)	07:41 17:34	06:25 18:37	05:59 20:46	04:50 21:50
22	08:46 16:23	09:30 (2) 09:51 (2)	07:38 17:36	06:22 18:39	05:57 20:48	04:48 21:52
23	08:44 16:26	09:30 (2) 09:51 (2)	07:36 17:38	06:19 18:42	05:54 20:50	04:47 21:54
24	08:42 16:28	09:30 (2) 09:51 (2)	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55
25	08:41 16:30	09:30 (2) 09:52 (2)	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57
26	08:39 16:32	09:31 (2) 09:52 (2)	07:28 17:45	06:11 18:48	05:46 20:57	04:42 21:59
27	08:37 16:35	09:31 (2) 09:52 (2)	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01
28	08:35 16:37	09:32 (2) 09:52 (2)	07:22 17:50	06:05 18:53	05:41 21:01	04:39 22:02
29	08:33 16:39	09:33 (2) 09:52 (2)		07:02 19:55	05:39 21:03	04:37 22:04
30	08:31 16:42	09:33 (2) 09:51 (2)		07:00 19:57	05:36 21:05	04:36 22:06
31	08:29 16:44	09:35 (2) 09:50 (2)		06:57 19:59		04:34 22:07
Potential sun hours	227	262	365	429	515	539
Total, worst case	330	22	598			
Sun reduction	0,13	0,22	0,37			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,62	0,62	0,95			
Total reduction	0,08	0,13	0,32			
Total, real	25	3	194			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: Q - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25	08:14 (3)	07:34
	22:26	21:42	20:24	19:00	08:42 (3)	16:38
2	04:27	05:17	06:23	07:27	08:14 (3)	07:36
	22:26	21:39	20:21	18:57	28 08:42 (3)	16:36
3	04:28	05:19	06:25	07:29	08:14 (3)	07:38
	22:25	21:37	20:18	18:54	28 08:42 (3)	16:34
4	04:29	05:22	06:28	07:31	08:14 (3)	07:41
	22:25	21:35	20:15	18:51	27 08:41 (3)	16:31
5	04:30	05:24	06:30	07:33	08:14 (3)	07:43
	22:24	21:33	20:13	18:49	26 08:40 (3)	16:29
6	04:31	05:26	06:32	07:36	08:14 (3)	07:45
	22:23	21:30	20:10	18:46	25 08:39 (3)	16:27
7	04:32	05:28	06:34	07:38	08:16 (3)	07:48
	22:22	21:28	20:07	18:43	22 08:38 (3)	16:25
8	04:34	05:30	06:36	07:40	08:17 (3)	07:50
	22:21	21:26	20:04	18:40	19 08:36 (3)	16:22
9	04:35	05:32	06:38	07:42	08:18 (3)	07:52
	22:20	21:23	20:01	18:38	16 08:34 (3)	16:20
10	04:36	05:34	06:40	07:44	08:21 (3)	07:55
	22:19	21:21	19:59	18:35	9 08:30 (3)	16:18
11	04:38	05:36	06:42	07:46		07:57
	22:18	21:19	19:56	18:32		16:16
12	04:39	05:38	06:44	07:49		07:59
	22:17	21:16	19:53	18:29		16:14
13	04:41	05:41	06:47	07:51		08:01
	22:15	21:14	19:50	18:27		16:12
14	04:42	05:43	06:49	07:53		08:04
	22:14	21:11	19:47	18:24		16:10
15	04:44	05:45	06:51	07:55		08:06
	22:13	21:09	19:45	18:21		16:08
16	04:45	05:47	06:53	07:57		08:08
	22:11	21:06	19:42	18:19		16:06
17	04:47	05:49	06:55	08:00		08:10
	22:10	21:04	19:39	18:16		16:04
18	04:49	05:51	06:57	08:02		08:13
	22:08	21:01	19:36	8 08:03 (4)		16:02
19	04:50	05:53	06:59	08:04		08:15
	22:06	20:58	19:33	13 08:05 (4)		16:01
20	04:52	05:56	07:01	08:06		08:17
	22:05	20:56	19:31	17 08:07 (4)		15:59
21	04:54	05:58	07:03	08:09		08:19
	22:03	20:53	19:28	18 08:07 (4)		15:57
22	04:56	06:00	07:06	08:11		08:21
	22:01	20:51	19:25	19 08:07 (4)		15:56
23	04:58	06:02	07:08	08:13		08:23
	22:00	20:48	19:22	30 08:36 (3)		15:54
24	05:00	06:04	07:10	08:15		08:25
	21:58	20:45	19:19	36 08:38 (3)		15:53
25	05:01	06:06	07:12	08:18		08:28
	21:56	20:43	19:16	40 08:40 (3)		15:51
26	05:03	06:08	07:14	08:20		08:30
	21:54	20:40	19:14	42 08:41 (3)		15:50
27	05:05	06:10	07:16	08:22		08:32
	21:52	20:37	19:11	42 08:42 (3)		15:48
28	05:07	06:13	07:18	08:25		08:34
	21:50	20:35	19:08	42 08:43 (3)		15:47
29	05:09	06:15	07:20	08:27		08:35
	21:48	20:32	19:05	39 08:43 (3)		15:46
30	05:11	06:17	07:23	08:29		08:37
	21:46	20:29	19:02	35 08:43 (3)		15:45
31	05:13	06:19		07:32		
	21:44	20:26		16:41		
Potential sun hours	538	474	386	321	241	207
Total, worst case			381	228	353	
Sun reduction			0,43	0,31	0,15	
Oper. time red.			0,93	0,93	0,93	
Wind dir. red.			0,96	0,94	0,62	
Total reduction			0,38	0,27	0,09	
Total, real			146	61	31	

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: R - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:32 21:10	04:32 22:10	04:27 22:25	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:32	06:30 20:12	07:33 18:49	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:20 21:21	04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:47 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:53 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21	04:38 22:17	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:25	05:09 21:31	04:23 22:22	04:39 22:16	05:39 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:47 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:56 16:09	07:56 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:24	04:44 22:12	05:45 21:08	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:46 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:22 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:01 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:09 18:06	08:19 15:57	09:04 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:27	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:57	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:40 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:44 21:57	04:23 22:28	05:02 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:00	04:24 22:27	05:05 21:52	06:11 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:36 21:05	04:36 22:05	04:26 22:26	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:43	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: S - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:06 15:46	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:08	21:21 (8) 21:28 (8)	04:26 22:26	21:23 (8) 21:41	05:15 20:23	06:21 20:23	07:24 18:59	07:33 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:09	04:32 22:10	21:20 (8) 21:29 (8)	04:27 22:25	21:24 (8) 21:39	05:17 20:20	06:23 20:20	07:26 18:56	07:36 16:36	08:40 15:42
3	09:05 15:48	08:23 16:51	07:14 17:56	06:48 20:05	05:29 21:12	04:30 22:11	21:20 (8) 21:30 (8)	04:28 22:25	21:24 (8) 21:37	05:19 20:18	06:25 20:18	07:29 18:54	07:38 16:33	08:42 15:41
4	09:05 15:50	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	21:20 (8) 21:32 (8)	04:29 22:24	21:25 (8) 21:34	05:21 20:15	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:40
5	09:04 15:51	08:18 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14	21:20 (8) 21:33 (8)	04:30 22:23	21:25 (8) 21:41	05:23 20:12	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:15	21:20 (8) 21:34 (8)	04:31 22:22	21:26 (8) 21:41	05:25 20:09	06:31 20:09	07:35 18:45	07:45 16:26	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:05	06:37 20:14	05:19 21:20	04:26 22:17	21:19 (8) 21:35 (8)	04:32 22:21	21:26 (8) 21:40	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:02 15:56	08:12 17:03	07:00 18:08	06:34 20:16	05:17 21:22	04:26 22:18	21:20 (8) 21:36 (8)	04:33 22:20	21:27 (8) 21:39	05:30 21:25	06:36 20:04	07:39 18:40	07:49 16:22	08:50 15:37
9	09:02 15:57	08:09 17:05	06:58 18:10	06:31 20:19	05:15 21:25	04:25 22:19	21:19 (8) 21:37 (8)	04:35 22:19	21:27 (8) 21:38	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20	21:20 (8) 21:38 (8)	04:36 22:18	21:28 (8) 21:37	05:34 21:20	06:40 19:58	07:44 18:34	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:14	06:26 20:23	05:10 21:29	04:23 22:21	21:19 (8) 21:38 (8)	04:37 22:17	21:29 (8) 21:37	05:36 21:18	06:42 19:55	07:46 18:32	07:56 16:16	08:55 15:36
12	08:59 16:03	08:02 17:12	06:49 18:17	06:23 20:25	05:08 21:31	04:23 22:22	21:20 (8) 21:40 (8)	04:39 22:16	21:30 (8) 21:35	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	06:21 20:27	05:06 21:33	04:22 22:23	21:19 (8) 21:40 (8)	04:40 22:15	21:30 (8) 21:34	05:40 21:13	06:46 19:50	07:50 18:26	08:01 16:12	08:57 15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:23	21:19 (8) 21:41 (8)	04:42 22:13	21:32 (8) 21:33	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:55 16:09	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:37	04:22 22:24	21:20 (8) 21:42 (8)	04:44 22:12	05:45 21:08	06:50 19:44	07:55 18:21	08:05 16:08	08:59 15:35	
16	08:54 16:11	07:53 17:21	06:38 18:26	06:12 20:34	05:00 21:39	04:21 22:25	21:20 (8) 21:42 (8)	04:45 22:11	05:47 21:06	06:52 19:41	07:57 18:18	08:08 16:06	09:00 15:35	
17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	04:21 22:25	21:20 (8) 21:43 (8)	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35	
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	04:21 22:26	21:20 (8) 21:43 (8)	04:48 22:07	05:51 21:00	06:57 19:36	08:01 18:13	08:12 16:02	09:02 15:35	
19	08:50 16:17	07:45 17:29	06:30 18:32	06:04 20:41	04:54 21:45	04:21 22:26	21:20 (8) 21:44 (8)	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:14 16:00	09:03 15:35	
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	04:21 22:27	21:21 (8) 21:44 (8)	04:52 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:16 15:59	09:04 15:36	
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:49	04:21 22:27	21:21 (8) 21:44 (8)	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:04 15:36	
22	08:45 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 21:51	04:21 22:27	21:21 (8) 21:44 (8)	04:56 22:01	05:59 20:50	07:05 19:24	08:10 18:03	08:21 15:55	09:05 15:36	
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:49	04:47 21:53	04:21 22:27	21:21 (8) 21:45 (8)	04:57 21:59	06:02 20:47	07:07 19:22	08:13 18:00	08:23 15:54	09:05 15:37	
24	08:42 16:28	07:32 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:22 22:27	21:21 (8) 21:44 (8)	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38	
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:27	21:21 (8) 21:44 (8)	05:01 21:55	06:06 20:42	07:11 19:16	08:17 16:55	08:27 15:51	09:06 15:38	
26	08:38 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:42 21:58	04:23 22:27	21:22 (8) 21:44 (8)	05:03 21:53	06:08 20:39	07:14 19:13	08:20 16:53	08:29 15:49	09:06 15:39	
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 22:00	04:23 22:27	21:22 (8) 21:44 (8)	05:05 21:51	06:10 20:37	07:16 19:10	08:22 16:50	08:31 15:48	09:06 15:40	
28	08:35 16:37	07:22 17:49	06:05 18:52	05:41 21:01	04:38 22:02	04:24 22:27	21:22 (8) 21:44 (8)	05:07 21:49	06:12 20:34	07:18 19:08	08:24 16:48	08:33 15:47	09:07 15:41	
29	08:33 16:39		07:02 19:54	05:39 21:03	04:37 22:04	04:24 22:27	21:23 (8) 21:44 (8)	05:09 21:47	06:14 20:31	07:20 19:05	08:26 16:45	08:35 15:46	09:07 15:42	
30	08:31 16:41		06:59 19:57	05:36 21:05	04:36 22:05	21:22 (8) 21:25 (8)	04:25 22:26	05:11 21:45	06:17 20:29	07:22 19:02	08:27 16:43	08:37 15:44	09:07 15:43	
31	08:29 16:44		06:56 19:59		04:34 22:07	21:21 (8) 21:26 (8)		05:13 21:43	06:19 20:26		07:31 16:40		09:06 15:44	
Potential sun hours	227	262	365	429	515	539	575	538	474	386	321	241	207	
Total, worst case					8		575							
Sun reduction					0,58		0,53							
Oper. time red.					0,93		0,93							
Wind dir. red.					0,74		0,74							
Total reduction					0,40		0,37							
Total, real					3		210							

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: T - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:08	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:33 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:09	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:56	06:48 20:05	05:29 21:12	04:31 22:11	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:42 15:41
4	09:05 15:50	08:21 16:53	07:11 17:59	06:45 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:40
5	09:05 15:51	08:18 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:15	04:31 22:22	05:26 21:30	06:32 20:09	07:35 18:46	07:45 16:27	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:19 21:20	04:27 22:17	04:32 22:21	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:02 15:56	08:12 17:03	07:01 18:08	06:34 20:16	05:17 21:22	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:50 15:37
9	09:02 15:58	08:09 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:18	05:34 21:21	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:24 22:21	04:38 22:17	05:36 21:18	06:42 19:56	07:46 18:32	07:56 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:23 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	06:21 20:27	05:06 21:33	04:23 22:23	04:41 22:15	05:40 21:13	06:46 19:50	07:50 18:26	08:01 16:12	08:57 15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:13	05:43 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:55 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:24	04:44 22:12	05:45 21:08	06:50 19:44	07:55 18:21	08:05 16:08	08:59 15:35
16	08:54 16:11	07:53 17:22	06:38 18:26	06:13 20:34	05:00 21:39	04:21 22:25	04:45 22:11	05:47 21:06	06:53 19:41	07:57 18:18	08:08 16:06	09:00 15:35
17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	04:21 22:26	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	06:05 20:41	04:54 21:45	04:21 22:26	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:14 16:01	09:03 15:36
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	04:21 22:27	04:52 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:04 15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 21:51	04:21 22:27	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:27	04:58 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:05 15:37
24	08:42 16:28	07:33 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:22 22:27	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:27	05:01 21:55	06:06 20:42	07:12 19:16	07:17 16:55	08:27 15:51	09:06 15:38
26	08:38 16:32	07:27 17:45	06:11 18:48	05:46 20:56	04:42 21:59	04:23 22:27	05:03 21:53	06:08 20:40	07:14 19:13	07:20 16:53	08:29 15:50	09:06 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 22:00	04:23 22:27	05:05 21:51	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:49	06:12 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:54	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:47	06:15 20:31	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:41		06:59 19:57	05:36 21:05	04:36 22:05	04:25 22:26	05:11 21:45	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:40		09:06 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: U - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
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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	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: V - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:32 21:10	04:32 22:10	04:27 22:26	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:33	06:30 20:13	07:33 18:49	07:43 16:29	08:46 15:40
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10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:54 15:37
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12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:09 21:31	04:23 22:22	04:39 22:16	05:39 21:16	06:44 19:53	07:49 18:29	07:59 16:14	08:56 15:36
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14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:04 16:10	08:59 15:35
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16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
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18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
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22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:28	04:56 22:01	06:00 20:50	07:06 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:58	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57	04:23 22:28	05:02 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:24 22:28	05:05 21:52	06:11 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:25 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
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31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:44	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: W - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:16 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	05:32 21:10	04:32 22:10	04:27 22:26	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
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23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:58	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:44 21:57	04:23 22:28	05:02 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:24 22:27	05:05 21:52	06:11 20:37	07:16 19:11	07:22 16:50	08:31 15:49	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:42 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:25 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:46	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:37 21:05	04:36 22:06	04:26 22:27	05:11 21:46	06:17 20:29	07:23 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:44	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: X - 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
 0 1 Sum
 4 076 4 076 8 152

	January	February	March	April	May	June
1	09:07	10:11 (4)	08:27	09:05 (7)	07:20	06:54
	15:46	12:42 (3)	16:46	10:44 (4)	17:52	20:01
2	09:06	10:10 (4)	08:25	09:04 (7)	07:17	06:51
	15:47	12:42 (3)	16:48	10:43 (4)	17:54	20:03
3	09:06	10:10 (4)	08:23	09:04 (7)	07:14	06:48
	15:48	12:42 (3)	16:51	10:41 (4)	17:57	20:06
4	09:06	10:10 (4)	08:21	09:05 (7)	07:12	06:46
	15:50	12:42 (3)	16:53	10:39 (4)	17:59	20:08
5	09:05	10:11 (4)	08:19	09:04 (7)	07:09	06:43
	15:51	12:43 (3)	16:56	10:34 (4)	18:01	20:10
6	09:04	10:11 (4)	08:17	09:05 (7)	07:06	06:40
	15:53	12:43 (3)	16:58	09:50 (1)	18:03	20:12
7	09:04	10:11 (4)	08:14	09:05 (7)	07:03	06:37
	15:54	12:44 (3)	17:00	09:48 (1)	18:06	20:14
8	09:03	10:10 (4)	08:12	09:06 (7)	07:01	06:34
	15:56	12:43 (3)	17:03	09:48 (1)	18:08	20:17
9	09:02	10:10 (4)	08:10	09:06 (7)	06:58	06:32
	15:58	12:43 (3)	17:05	09:47 (1)	18:10	20:19
10	09:01	10:10 (4)	08:08	09:08 (7)	06:55	06:29
	15:59	12:43 (3)	17:07	09:46 (1)	18:13	20:21
11	09:00	10:11 (4)	08:05	09:09 (7)	06:53	06:26
	16:01	12:44 (3)	17:10	09:43 (1)	18:15	20:23
12	08:59	10:10 (4)	08:03	09:12 (7)	06:50	06:23
	16:03	12:43 (3)	17:12	09:40 (1)	18:17	20:26
13	08:58	10:11 (4)	08:00		06:47	07:13 (10)
	16:05	12:43 (3)	17:15		18:19	20:28
14	08:57	10:10 (4)	07:58		06:44	07:10 (10)
	16:07	12:43 (3)	17:17		18:21	20:30
15	08:56	10:11 (4)	07:56		06:41	07:09 (10)
	16:09	12:43 (3)	17:19		18:24	20:32
16	08:55	10:11 (4)	07:53		06:39	07:08 (10)
	16:11	12:42 (3)	17:22		18:26	20:34
17	08:53	10:10 (4)	07:51		06:36	07:07 (10)
	16:13	12:41 (3)	17:24		18:28	20:37
18	08:52	10:11 (4)	07:48		06:33	07:06 (10)
	16:15	12:41 (3)	17:26		18:30	20:39
19	08:50	09:28 (1)	07:46		06:30	07:06 (10)
	16:17	12:40 (3)	17:29		18:33	20:41
20	08:49	09:26 (1)	07:43		06:27	07:07 (10)
	16:19	12:38 (3)	17:31		18:35	20:43
21	08:47	09:24 (1)	07:41		06:25	07:07 (10)
	16:21	12:35 (3)	17:33		18:37	20:45
22	08:46	09:23 (1)	07:38		06:22	07:07 (10)
	16:23	10:47 (4)	17:36		18:39	20:48
23	08:44	09:23 (1)	07:35		06:19	07:08 (10)
	16:25	10:47 (4)	17:38		18:41	20:50
24	08:42	09:22 (1)	07:33		06:16	07:10 (10)
	16:28	10:47 (4)	17:40		18:44	20:52
25	08:41	09:22 (1)	07:30		06:13	05:49
	16:30	10:47 (4)	17:43		18:46	20:54
26	08:39	09:13 (7)	07:28		06:11	05:46
	16:32	10:47 (4)	17:45		18:48	20:57
27	08:37	09:11 (7)	07:25		06:08	05:44
	16:34	10:47 (4)	17:47		18:50	20:59
28	08:35	09:09 (7)	07:22		06:05	05:41
	16:37	10:47 (4)	17:50		18:52	21:01
29	08:33	09:06 (7)			07:02	05:39
	16:39	10:46 (4)			19:55	21:03
30	08:31	09:05 (7)			06:59	05:36
	16:41	10:46 (4)			19:57	21:05
31	08:29	09:05 (7)			06:57	04:34
	16:44	10:45 (4)			19:59	22:07
Potential sun hours	227	262	365	429	515	539
Total, worst case	2098	555	220			
Sun reduction	0,13	0,22	0,37			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,36	0,65	0,98			
Total reduction	0,04	0,13	0,33			
Total, real	91	74	73			

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

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

Shadow receptor: X - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25	07:54 (10)	08:37 (7)
2	22:26	21:42	20:24	19:00	08:03 (10)	09:15 (1)
3	04:27	05:17	06:23	07:27	07:56 (10)	08:36 (7)
4	22:26	21:39	20:21	18:57	07:58 (10)	09:16 (1)
5	04:28	05:19	06:25	07:29	07:38	08:35 (7)
6	22:25	21:37	20:18	18:54	16:33	09:18 (1)
7	04:29	05:21	06:27	07:31	07:41	08:34 (7)
8	22:24	21:35	20:15	18:51	16:31	09:18 (1)
9	04:30	05:24	06:30	07:33	07:43	08:35 (7)
10	22:24	21:33	20:13	18:48	16:29	09:19 (1)
11	04:31	05:26	06:32	07:35	07:45	08:34 (7)
12	22:23	21:30	20:10	18:46	16:27	09:19 (1)
13	04:32	05:28	06:34	07:38	07:48	08:34 (7)
14	22:22	21:28	20:07	18:43	16:24	09:19 (1)
15	04:33	05:30	06:36	07:40	07:50	08:35 (7)
16	22:21	21:26	20:04	18:40	16:22	09:18 (1)
17	04:35	05:32	06:38	07:42	07:52	08:35 (7)
18	22:20	21:23	20:01	18:37	16:20	09:18 (1)
19	04:36	05:34	06:40	07:44	07:55	08:36 (7)
20	22:19	21:21	19:59	18:35	16:18	09:15 (4)
21	04:37	05:36	06:42	07:46	07:57	08:36 (7)
22	22:18	21:18	19:56	18:32	16:16	09:16 (4)
23	04:39	05:38	06:44	07:49	07:59	08:37 (7)
24	22:17	21:16	19:53	18:29	16:14	09:16 (4)
25	04:40	05:40	06:46	07:51	08:01	08:38 (7)
26	22:15	21:14	19:50	18:27	16:12	09:16 (4)
27	04:42	05:43	06:49	07:53	08:04	08:41 (7)
28	22:14	21:11	19:47	18:24	16:10	09:15 (4)
29	04:44	05:45	06:51	07:55	08:06	08:44 (7)
30	22:13	21:09	19:45	18:21	16:08	09:15 (4)
31	04:45	05:47	06:53	07:57	08:08	08:46 (7)
32	22:11	21:06	19:42	18:19	16:06	09:15 (4)
33	04:47	05:49	06:55	08:00	08:10	08:56 (1)
34	22:10	21:03	19:39	18:16	16:04	09:15 (4)
35	04:49	05:51	06:57	08:02	08:13	08:56 (1)
36	22:08	21:01	19:36	18:13	16:02	09:15 (4)
37	04:50	05:53	06:59	08:04	08:15	08:58 (1)
38	22:06	20:58	19:33	18:11	16:01	09:15 (4)
39	04:52	05:55	07:01	08:06	08:17	08:58 (1)
40	22:05	20:56	19:30	18:08	15:59	09:15 (4)
41	04:54	05:58	07:03	08:09	08:19	09:00 (1)
42	22:03	20:53	19:28	18:05	15:57	09:15 (4)
43	04:56	06:00	07:05	08:11	08:21	09:02 (1)
44	22:01	20:50	19:25	18:03	15:56	09:15 (4)
45	04:58	06:02	07:08	08:13	08:23	09:05 (1)
46	22:00	20:48	19:22	18:00	15:54	09:15 (4)
47	04:59	06:04	07:10	08:15	08:25	09:06 (1)
48	21:58	20:45	19:19	17:58	15:52	09:15 (4)
49	05:01	06:06	07:12	08:18	08:27	09:09 (1)
50	21:56	20:43	19:16	17:55	15:51	09:15 (4)
51	05:03	06:08	07:14	08:20	08:30	09:10 (1)
52	21:54	20:40	19:14	17:53	15:50	09:15 (4)
53	05:05	06:10	07:16	08:22	08:32	09:10 (1)
54	21:52	20:37	19:11	17:50	15:48	09:15 (4)
55	05:07	06:12	07:18	08:25	08:33	09:10 (1)
56	21:50	20:34	19:08	17:48	15:47	09:15 (4)
57	05:09	06:15	07:20	08:27	08:35	09:11 (1)
58	21:48	20:32	19:05	17:45	15:46	09:15 (4)
59	05:11	06:17	07:22	08:29	08:37	09:12 (1)
60	21:46	20:29	19:02	17:43	15:44	09:15 (4)
61	05:13	06:19		07:31	08:38 (7)	09:07
62	21:44	20:26		16:40	09:13 (1)	15:44
Potential sun hours	538	474	386	321	241	207
Total, worst case			213	57	1762	2418
Sun reduction			0,43	0,31	0,15	0,13
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			0,98	0,74	0,50	0,22
Total reduction			0,39	0,21	0,07	0,03
Total, real			83	12	126	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: Y - 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
0 1 Sum
4 076 4 076 8 152

	January		February		March		April		May		June	
1	09:07		08:27	09:35 (2)	07:20		06:54		05:34	06:03 (1)	04:33	06:48 (3)
	15:46		16:46	35	10:10 (2)	17:52		20:01		21:08	61	07:17 (3)
2	09:06		08:25	09:34 (2)	07:17		06:51		05:31	06:01 (1)	04:32	06:49 (3)
	15:47		16:49	36	10:10 (2)	17:54		20:04		21:10	65	07:16 (3)
3	09:06		08:23	09:34 (2)	07:14		06:48		05:29	05:59 (1)	04:31	06:49 (3)
	15:48		16:51	36	10:10 (2)	17:57		20:06		21:12	67	07:15 (3)
4	09:05		08:21	09:35 (2)	07:12		06:46		05:27	05:59 (1)	04:30	06:50 (3)
	15:50		16:53	36	10:11 (2)	17:59		20:08		21:14	67	07:14 (3)
5	09:05		08:19	09:34 (2)	07:09		06:43		05:24	05:59 (1)	04:29	06:51 (3)
	15:51		16:56	36	10:10 (2)	18:01		20:10		21:16	68	07:13 (3)
6	09:04		08:17	09:35 (2)	07:06		06:40		05:22	06:00 (1)	04:28	06:52 (3)
	15:53		16:58	36	10:11 (2)	18:04		20:12		21:19	67	07:12 (3)
7	09:04		08:14	09:35 (2)	07:04		06:37		05:20	06:00 (1)	04:27	06:54 (3)
	15:54		17:00	35	10:10 (2)	18:06		20:15		21:21	66	07:12 (3)
8	09:03		08:12	09:36 (2)	07:01		06:35		05:17	06:01 (1)	04:26	06:55 (3)
	15:56		17:03	34	10:10 (2)	18:08		20:17		21:23	64	07:11 (3)
9	09:02		08:10	09:36 (2)	06:58		06:32		05:15	06:02 (1)	04:25	06:56 (3)
	15:58		17:05	34	10:10 (2)	18:10		20:19		21:25	62	07:09 (3)
10	09:01		08:08	09:37 (2)	06:55		06:29		05:13	06:03 (1)	04:24	06:58 (3)
	15:59		17:08	33	10:10 (2)	18:13		20:21		21:27	60	07:09 (3)
11	09:00		08:05	09:37 (2)	06:53		06:26		05:11	06:06 (1)	04:24	06:59 (3)
	16:01		17:10	31	10:08 (2)	18:15		20:23		21:29	54	07:06 (3)
12	08:59		08:03	09:38 (2)	06:50		06:24		05:08	06:37 (3)	04:23	
	16:03		17:12	30	10:08 (2)	18:17		20:26		21:31	50	07:27 (3)
13	08:58		08:00	09:39 (2)	06:47		06:21	07:19 (5)		05:06	06:37 (3)	04:23
	16:05		17:15	28	10:07 (2)	18:19	13	07:32 (5)		20:28	49	07:26 (3)
14	08:57		07:58	09:40 (2)	06:44		06:18	07:17 (5)	06:52 (4)	05:04	06:37 (3)	04:22
	16:07		17:17	25	10:05 (2)	18:22	18	07:35 (5)	20:30	8	07:00 (4)	21:36
15	08:56		07:56	09:42 (2)	06:41		06:15	07:15 (5)	06:15	05:02	06:37 (3)	04:22
	16:09		17:19	22	10:04 (2)	18:24	21	07:36 (5)	20:32	15	07:03 (4)	21:38
16	08:55		07:53	09:44 (2)	06:39		06:13	07:13 (5)	06:13	05:00	06:37 (3)	04:22
	16:11		17:22	17	10:01 (2)	18:26	24	07:37 (5)	20:34	19	07:05 (4)	21:40
17	08:53		07:51	09:48 (2)	06:36		06:10	07:12 (5)	06:10	06:44 (4)	04:58	06:37 (3)
	16:13		17:24	10	09:58 (2)	18:28	25	07:37 (5)	20:37	22	07:06 (4)	21:42
18	08:52		07:48		06:33		06:07	07:11 (5)	06:07	06:42 (4)	04:56	06:38 (3)
	16:15		17:26		18:30	26	07:37 (5)	20:39	24	07:06 (4)	21:44	07:25 (3)
19	08:50		07:46		06:30		06:05	07:10 (5)	06:05	06:42 (4)	04:54	06:38 (3)
	16:17	8	09:53 (2)		17:29		06:02	07:37 (5)	20:41	25	07:07 (4)	21:46
20	08:49		07:43		06:28		06:02	07:15 (5)	06:02	06:40 (4)	04:52	06:38 (3)
	16:19	14	09:56 (2)		17:31		06:02	07:38 (5)	20:43	32	07:12 (3)	21:48
21	08:47		07:41		06:25		05:59	07:09 (5)	05:59	06:40 (4)	04:50	06:39 (3)
	16:21	17	09:58 (2)		17:34		06:02	07:38 (5)	20:45	35	07:15 (3)	21:50
22	08:46		07:38		06:22		05:57	07:09 (5)	05:57	06:39 (4)	04:48	06:39 (3)
	16:23	21	10:00 (2)		17:36		06:02	07:37 (5)	20:48	38	07:17 (3)	21:52
23	08:44		07:35		06:19		05:54	07:09 (5)	05:54	06:39 (4)	04:47	06:41 (3)
	16:26	23	10:01 (2)		17:38		06:02	07:36 (5)	20:50	40	07:19 (3)	21:53
24	08:42		07:33		06:16		05:52	07:09 (5)	05:52	06:38 (4)	04:45	06:41 (3)
	16:28	26	10:03 (2)		17:41		06:02	07:35 (5)	20:52	42	07:20 (3)	21:55
25	08:41		07:30		06:14		05:49	07:09 (5)	05:49	06:39 (4)	04:43	06:42 (3)
	16:30	27	10:04 (2)		17:43		06:02	07:34 (5)	20:54	43	07:22 (3)	21:57
26	08:39		07:28		06:11		05:46	07:10 (5)	05:46	06:39 (4)	04:42	06:43 (3)
	16:32	29	10:05 (2)		17:45		06:02	07:34 (5)	20:57	44	07:23 (3)	21:59
27	08:37		07:25		06:08		05:44	07:11 (5)	05:44	06:12 (1)	04:40	06:43 (3)
	16:35	30	10:06 (2)		17:47		06:02	07:32 (5)	20:59	45	07:23 (3)	22:01
28	08:35		07:22		06:05		05:41	07:12 (5)	05:41	06:10 (1)	04:39	06:44 (3)
	16:37	31	10:07 (2)		17:50		06:02	07:29 (5)	21:01	50	07:24 (3)	22:02
29	08:33				07:02		05:39	08:14 (5)	05:39	06:08 (1)	04:37	06:45 (3)
	16:39	33	10:07 (2)		19:55	12	08:26 (5)	21:03	54	07:25 (3)	22:04	07:19 (3)
30	08:31				07:00		05:36		05:36	06:05 (1)	04:36	06:46 (3)
	16:42	34	10:08 (2)		19:57		21:05		58	07:25 (3)	22:06	07:18 (3)
31	08:29				06:57						04:34	06:47 (3)
	16:44	35	10:09 (2)		19:59						22:07	07:17 (3)
Potential sun hours	227		262			365		429		515		539
Total, worst case		328		514		391		594		1542		213
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.		0,61		0,61		0,97		0,98		0,98		0,98
Total reduction		0,07		0,12		0,33		0,42		0,53		0,49
Total, real		24		64		130		250		814		104

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: Y - 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
0 1 Sum
4 076 4 076 8 152

	July			August			September			October			November			December		
1	04:26		07:04 (3)	05:15		06:47 (3)	06:21		07:25		08:01 (5)	07:34		09:06 (2)	08:39			
	22:26	6	07:10 (3)	21:42	50	07:37 (3)	20:24		19:00	8	08:09 (5)	16:38	33	09:39 (2)	15:44			
2	04:27		07:03 (3)	05:17		06:15 (1)	06:23		07:27			07:36		09:05 (2)	08:41			
	22:26	9	07:12 (3)	21:39	57	07:37 (3)	20:21		18:57			16:36	34	09:39 (2)	15:42			
3	04:28		07:02 (3)	05:19		06:13 (1)	06:25		07:29			07:38		09:05 (2)	08:43			
	22:25	12	07:14 (3)	21:37	61	07:37 (3)	20:18		18:54			16:34	35	09:40 (2)	15:41			
4	04:29		07:01 (3)	05:22		06:11 (1)	06:27		07:31			07:41		09:04 (2)	08:44			
	22:24	15	07:16 (3)	21:35	63	07:36 (3)	20:15		18:51			16:31	36	09:40 (2)	15:41			
5	04:30		07:00 (3)	05:24		06:10 (1)	06:30		07:33			07:43		09:05 (2)	08:46			
	22:24	17	07:17 (3)	21:33	65	07:36 (3)	20:13		18:49			16:29	36	09:41 (2)	15:40			
6	04:31		06:59 (3)	05:26		06:09 (1)	06:32		07:35			07:45		09:04 (2)	08:48			
	22:23	19	07:18 (3)	21:30	67	07:36 (3)	20:10		18:46			16:27	36	09:40 (2)	15:39			
7	04:32		06:58 (3)	05:28		06:09 (1)	06:34		07:38			07:48		09:04 (2)	08:49			
	22:22	21	07:19 (3)	21:28	67	07:36 (3)	20:07		18:43			16:25	37	09:41 (2)	15:38			
8	04:34		06:57 (3)	05:30		06:08 (1)	06:36		07:40			07:50		09:05 (2)	08:51			
	22:21	23	07:20 (3)	21:26	68	07:36 (3)	20:04		18:40			16:22	36	09:41 (2)	15:38			
9	04:35		06:56 (3)	05:32		06:08 (1)	06:38		07:42			07:52		09:05 (2)	08:52			
	22:20	25	07:21 (3)	21:23	67	07:36 (3)	20:01		18:38			16:20	35	09:40 (2)	15:37			
10	04:36		06:56 (3)	05:34		06:08 (1)	06:40		07:44			07:54		09:05 (2)	08:54			
	22:19	27	07:23 (3)	21:21	66	07:35 (3)	19:59		18:35			16:18	36	09:41 (2)	15:37			
11	04:38		06:55 (3)	05:36		06:10 (1)	06:42		07:46			07:57		09:05 (2)	08:55			
	22:18	29	07:24 (3)	21:18	64	07:35 (3)	19:56		18:32			16:16	35	09:40 (2)	15:36			
12	04:39		06:55 (3)	05:38		06:12 (1)	06:44		07:49			07:59		09:06 (2)	08:56			
	22:16	30	07:25 (3)	21:16	60	07:34 (3)	19:53		18:29			16:14	34	09:40 (2)	15:36			
13	04:41		06:54 (3)	05:41		06:14 (1)	06:46		07:51			08:01		09:06 (2)	08:58			
	22:15	31	07:25 (3)	21:14	57	07:34 (3)	19:50		18:27			16:12	33	09:39 (2)	15:36			
14	04:42		06:54 (3)	05:43		06:16 (1)	06:49		08:05 (5)	11	08:16 (5)	18:24		09:07 (2)	08:59			
	22:14	33	07:27 (3)	21:11	54	07:33 (3)	19:47		08:02 (5)		07:55	16:10	32	09:39 (2)	15:35			
15	04:44		06:53 (3)	05:45		06:18 (1)	06:51		08:19 (5)	17	08:22 (5)	18:21		09:09 (2)	09:00			
	22:12	34	07:27 (3)	21:09	50	07:32 (3)	19:45		08:00 (5)		07:57	16:08	30	09:39 (2)	15:35			
16	04:45		06:53 (3)	05:47		06:46 (4)	06:53		08:20 (5)	20	08:25 (5)	18:19		09:09 (2)	09:01			
	22:11	36	07:29 (3)	21:06	45	07:31 (3)	19:42		07:59 (5)		08:00	16:06	29	09:38 (2)	15:35			
17	04:47		06:52 (3)	05:49		06:46 (4)	06:55		08:22 (5)	23	08:25 (5)	18:16		09:11 (2)	09:02			
	22:10	37	07:29 (3)	21:03	44	07:30 (3)	19:39		07:57 (5)		08:02	16:04	27	09:38 (2)	15:35			
18	04:49		06:52 (3)	05:51		06:45 (4)	06:57		08:22 (5)	25	08:25 (5)	18:13		09:11 (2)	09:03			
	22:08	38	07:30 (3)	21:01	43	07:28 (3)	19:36		07:56 (5)		08:04	16:02	26	09:37 (2)	15:35			
19	04:50		06:51 (3)	05:53		06:45 (4)	06:59		08:23 (5)	27	08:25 (5)	18:11		09:13 (2)	09:03			
	22:06	40	07:31 (3)	20:58	42	07:27 (3)	19:33		08:23 (5)		08:06	16:01	23	09:36 (2)	15:36			
20	04:52		06:51 (3)	05:56		06:45 (4)	07:01		08:23 (5)	28	08:25 (5)	18:08		09:14 (2)	09:04			
	22:05	41	07:32 (3)	20:56	40	07:25 (3)	19:30		08:23 (5)		08:09	15:59	21	09:35 (2)	15:36			
21	04:54		06:51 (3)	05:58		06:45 (4)	07:03		08:23 (5)	28	08:25 (5)	18:06		09:17 (2)	09:05			
	22:03	42	07:33 (3)	20:53	37	07:22 (3)	19:28		07:54 (5)		08:11	15:57	17	09:34 (2)	15:36			
22	04:56		06:49 (3)	06:00		06:45 (4)	07:05		08:22 (5)	28	08:25 (5)	18:03		09:18 (2)	09:05			
	22:01	44	07:33 (3)	20:50	35	07:20 (3)	19:25		07:54 (5)		08:13	15:56	14	09:32 (2)	15:37			
23	04:58		06:49 (3)	06:02		06:45 (4)	07:08		08:22 (5)	28	08:25 (5)	18:00		09:21 (2)	09:06			
	21:59	45	07:34 (3)	20:48	31	07:16 (3)	19:22		08:22 (5)		08:15	15:54	8	09:29 (2)	15:37			
24	05:00		06:49 (3)	06:04		06:45 (4)	07:10		08:21 (5)	28	08:25 (5)	18:05			09:06			
	21:58	45	07:34 (3)	20:45	26	07:11 (4)	19:19		07:53 (5)		07:18	15:53			15:38			
25	05:01		06:48 (3)	06:06		06:46 (4)	07:12		08:20 (5)	12	09:16 (2)	18:27			09:07			
	21:56	46	07:34 (3)	20:43	24	07:10 (4)	19:16		07:53 (5)		07:20	15:51			15:39			
26	05:03		06:48 (3)	06:08		06:47 (4)	07:14		08:19 (5)	18	09:14 (2)	18:29			09:07			
	21:54	47	07:35 (3)	20:40	21	07:08 (4)	19:14		07:55 (5)		07:22	15:50			15:39			
27	05:05		06:48 (3)	06:10		06:48 (4)	07:16		08:19 (5)	23	09:11 (2)	18:31			09:07			
	21:52	48	07:36 (3)	20:37	19	07:07 (4)	19:11		08:19 (5)		07:25	15:48			15:40			
28	05:07		06:48 (3)	06:13		06:50 (4)	07:18		08:17 (5)	26	09:10 (2)	18:33			09:07			
	21:50	48	07:36 (3)	20:34	14	07:04 (4)	19:08		07:56 (5)		07:27	15:47			15:41			
29	05:09		06:47 (3)	06:15		06:53 (4)	07:20		08:15 (5)	28	09:08 (2)	18:35			09:07			
	21:48	49	07:36 (3)	20:32	8	07:01 (4)	19:05		07:58 (5)		07:29	15:46			15:42			
30	05:11		06:47 (3)	06:17			07:23		08:13 (5)	30	09:08 (2)	18:37			09:07			
	21:46	49	07:36 (3)	20:29			19:02				07:31	15:45			15:43			
31	05:13		06:47 (3)	06:19							09:06 (2)				09:07			
	21:44	50	07:37 (3)	20:26							09:38 (2)				15:44			
Potential sun hours	538			474			386		321			241			207			
Total, worst case	1036			1345			396		177			683						
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.	0,98			0,98			0,97		0,62			0,61						
Total reduction	0,52			0,50			0,39		0,18			0,09						
Total, real	536			667			154		31			59						

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: Z - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June
1 09:06		08:27	15:15 (12) 07:19	16:29 (13) 06:54	05:33	04:33
15:45		16:46	17 15:32 (12) 17:52	11 16:40 (13) 20:01	21:07	22:09
2 09:06		08:25	15:17 (12) 07:17	06:51	05:31	04:31
15:46		16:48	14 15:31 (12) 17:54	20:03	21:09	22:10
3 09:06		08:23	15:19 (12) 07:14	06:48	05:29	04:30
15:48		16:50	11 15:30 (12) 17:56	20:05	21:12	22:12
4 09:05		08:21	07:11	06:45	05:26	04:29
15:49		16:53	17:59	20:08	21:14	22:13
5 09:05		08:19	07:09	06:42	05:24	04:28
15:51		16:55	18:01	20:10	21:16	22:14
6 09:04		08:16	07:06	06:40	05:21	04:27
15:52		16:58	18:03	20:12	21:18	22:16
7 09:03		08:14	07:03	06:37	05:19	04:26
15:54		17:00	18:05	20:14	21:20	22:17
8 09:03		08:12	07:00	06:34	05:17	04:25
15:55		17:02	18:08	20:16	21:23	22:18
9 09:02		08:10	16:28 (13) 06:58	06:31	05:15	04:24
15:57		17:05	3 16:31 (13) 18:10	20:19	21:25	22:19
10 09:01		08:07	16:25 (13) 06:55	06:29	05:12	04:24
15:59		17:07	8 16:33 (13) 18:12	20:21	21:27	22:20
11 09:00		15:15 (12) 08:05	16:24 (13) 06:52	06:26	05:10	04:23
16:01	3	15:18 (12) 17:09	12 16:36 (13) 18:14	20:23	21:29	22:21
12 08:59		15:13 (12) 08:03	16:23 (13) 06:49	06:23	05:08	04:22
16:02	6	15:19 (12) 17:12	15 16:38 (13) 18:17	20:25	21:31	22:22
13 08:58		15:12 (12) 08:00	16:22 (13) 06:47	06:20	05:06	04:22
16:04	10	15:22 (12) 17:14	19 16:41 (13) 18:19	20:27	21:33	22:23
14 08:57		15:11 (12) 07:58	16:21 (13) 06:44	06:18	05:04	04:22
16:06	13	15:24 (12) 17:17	22 16:43 (13) 18:21	20:30	21:35	22:24
15 08:56		15:11 (12) 07:55	16:21 (13) 06:41	06:15	05:01	04:21
16:08	15	15:26 (12) 17:19	26 16:47 (13) 18:23	20:32	21:37	22:25
16 08:54		15:10 (12) 07:53	16:20 (13) 06:38	06:12	04:59	04:21
16:10	18	15:28 (12) 17:21	29 16:49 (13) 18:26	20:34	21:39	22:25
17 08:53		15:10 (12) 07:50	16:19 (13) 06:36	06:10	04:57	04:21
16:12	20	15:30 (12) 17:24	32 16:51 (13) 18:28	20:36	21:42	22:26
18 08:52		15:09 (12) 07:48	16:20 (13) 06:33	06:07	04:55	04:21
16:14	21	15:30 (12) 17:26	31 16:51 (13) 18:30	20:38	21:44	22:26
19 08:50		15:10 (12) 07:45	16:19 (13) 06:30	06:04	04:54	04:21
16:16	22	15:32 (12) 17:28	32 16:51 (13) 18:32	20:41	21:46	22:27
20 08:49		15:10 (12) 07:43	16:19 (13) 06:27	06:02	04:52	04:21
16:19	23	15:33 (12) 17:31	32 16:51 (13) 18:35	20:43	21:47	22:27
21 08:47		15:10 (12) 07:40	16:20 (13) 06:24	05:59	04:50	04:21
16:21	23	15:33 (12) 17:33	31 16:51 (13) 18:37	20:45	21:49	22:27
22 08:45		15:10 (12) 07:38	16:20 (13) 06:22	05:56	04:48	04:21
16:23	24	15:34 (12) 17:35	30 16:50 (13) 18:39	20:47	21:51	22:28
23 08:44		15:10 (12) 07:35	16:20 (13) 06:19	05:54	04:46	04:21
16:25	24	15:34 (12) 17:38	30 16:50 (13) 18:41	20:50	21:53	22:28
24 08:42		15:10 (12) 07:33	16:20 (13) 06:16	05:51	04:44	04:21
16:27	24	15:34 (12) 17:40	29 16:49 (13) 18:43	20:52	21:55	22:28
25 08:40		15:10 (12) 07:30	16:22 (13) 06:13	05:49	04:43	04:22
16:30	25	15:35 (12) 17:42	26 16:48 (13) 18:46	20:54	21:57	22:28
26 08:39		15:11 (12) 07:27	16:22 (13) 06:10	05:46	04:41	04:22
16:32	24	15:35 (12) 17:45	25 16:47 (13) 18:48	20:56	21:59	22:28
27 08:37		15:11 (12) 07:25	16:24 (13) 06:08	05:43	04:40	04:23
16:34	24	15:35 (12) 17:47	21 16:45 (13) 18:50	20:58	22:00	22:27
28 08:35		15:11 (12) 07:22	16:25 (13) 06:05	05:41	04:38	04:23
16:36	23	15:34 (12) 17:49	18 16:43 (13) 18:52	21:01	22:02	22:27
29 08:33		15:12 (12)	07:02	05:38	04:37	04:24
16:39	22	15:34 (12)	19:54	21:03	22:04	22:27
30 08:31		15:13 (12)	06:59	05:36	04:35	04:25
16:41	21	15:34 (12)	19:57	21:05	22:06	22:27
31 08:29		15:14 (12)	06:56		04:34	
16:43	20	15:34 (12)	19:59		22:07	
Potential sun hours	227	262	365	429	516	539
Total, worst case	405	513	11			
Sun reduction	0,13	0,22	0,37			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,67	0,85	0,87			
Total reduction	0,08	0,18	0,30			
Total, real	33	90	3			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: Z - 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
 0 1 Sum
 4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:24	07:33	15:55 (13) 08:39
	22:26	21:41	20:23	18:59	16:38	7 16:02 (13) 15:43
2	04:26	05:17	06:23	07:26	07:36	15:58 (13) 08:41
	22:26	21:39	20:20	18:56	16:35	2 16:00 (13) 15:42
3	04:27	05:19	06:25	07:29	07:38	08:42
	22:25	21:37	20:18	18:54	16:33	15:41
4	04:28	05:21	06:27	07:31	07:40	08:44
	22:24	21:35	20:15	18:51	16:31	15:40
5	04:29	05:23	06:29	07:33	07:43	08:46
	22:23	21:32	20:12	18:48	16:28	15:39
6	04:31	05:25	06:31	07:35	07:45	08:48
	22:23	21:30	20:09	18:45	16:26	15:38
7	04:32	05:27	06:33	07:37	07:47	14:53 (12) 08:49
	22:22	21:28	20:07	18:43	16:24	4 14:57 (12) 15:38
8	04:33	05:29	06:36	07:39	07:50	14:49 (12) 08:51
	22:21	21:25	20:04	18:40	16:22	11 15:00 (12) 15:37
9	04:34	05:32	06:38	07:42	07:52	14:47 (12) 08:52
	22:20	21:23	20:01	18:37	16:20	15 15:02 (12) 15:36
10	04:36	05:34	06:40	07:44	07:54	14:47 (12) 08:53
	22:19	21:21	19:58	18:34	16:18	17 15:04 (12) 15:36
11	04:37	05:36	06:42	07:46	07:57	14:45 (12) 08:55
	22:18	21:18	19:55	18:32	16:15	20 15:05 (12) 15:36
12	04:39	05:38	06:44	07:48	17:05 (13) 07:59	14:45 (12) 08:56
	22:16	21:16	19:53	18:29	6 17:11 (13) 16:13	21 15:06 (12) 15:35
13	04:40	05:40	06:46	07:50	17:00 (13) 08:01	14:44 (12) 08:57
	22:15	21:13	19:50	18:26	15 17:15 (13) 16:11	22 15:06 (12) 15:35
14	04:42	05:42	06:48	07:53	16:57 (13) 08:03	14:44 (12) 08:58
	22:14	21:11	19:47	18:24	19 17:16 (13) 16:09	23 15:07 (12) 15:35
15	04:43	05:44	06:50	07:55	16:56 (13) 08:06	14:43 (12) 09:00
	22:12	21:08	19:44	18:21	23 17:19 (13) 16:07	24 15:07 (12) 15:35
16	04:45	05:46	06:52	07:57	16:54 (13) 08:08	14:44 (12) 09:01
	22:11	21:06	19:41	18:18	25 17:19 (13) 16:06	24 15:08 (12) 15:35
17	04:46	05:49	06:55	07:59	16:52 (13) 08:10	14:43 (12) 09:01
	22:09	21:03	19:39	18:16	28 17:20 (13) 16:04	25 15:08 (12) 15:35
18	04:48	05:51	06:57	08:02	16:52 (13) 08:12	14:44 (12) 09:02
	22:08	21:01	19:36	18:13	29 17:21 (13) 16:02	24 15:08 (12) 15:35
19	04:50	05:53	06:59	08:04	16:51 (13) 08:14	14:44 (12) 09:03
	22:06	20:58	19:33	18:10	30 17:21 (13) 16:00	24 15:08 (12) 15:35
20	04:52	05:55	07:01	08:06	16:51 (13) 08:17	14:45 (12) 09:04
	22:05	20:55	19:30	18:08	31 17:22 (13) 15:58	24 15:09 (12) 15:35
21	04:53	05:57	07:03	08:08	16:50 (13) 08:19	14:45 (12) 09:04
	22:03	20:53	19:27	18:05	31 17:21 (13) 15:57	23 15:08 (12) 15:36
22	04:55	05:59	07:05	08:11	16:49 (13) 08:21	14:46 (12) 09:05
	22:01	20:50	19:24	18:03	32 17:21 (13) 15:55	23 15:09 (12) 15:36
23	04:57	06:01	07:07	08:13	16:50 (13) 08:23	14:46 (12) 09:06
	21:59	20:48	19:22	18:00	31 17:21 (13) 15:54	22 15:08 (12) 15:37
24	04:59	06:04	07:09	08:15	16:49 (13) 08:25	14:47 (12) 09:06
	21:57	20:45	19:19	17:57	32 17:21 (13) 15:52	22 15:09 (12) 15:37
25	05:01	06:06	07:11	07:17	15:50 (13) 08:27	14:48 (12) 09:06
	21:56	20:42	19:16	16:55	31 16:21 (13) 15:51	20 15:08 (12) 15:38
26	05:03	06:08	07:14	07:20	15:50 (13) 08:29	14:49 (12) 09:07
	21:54	20:40	19:13	16:52	28 16:18 (13) 15:49	18 15:07 (12) 15:39
27	05:05	06:10	07:16	07:22	15:51 (13) 08:31	14:50 (12) 09:07
	21:52	20:37	19:10	16:50	24 16:15 (13) 15:48	16 15:06 (12) 15:40
28	05:07	06:12	07:18	07:24	15:51 (13) 08:33	14:51 (12) 09:07
	21:50	20:34	19:08	16:47	21 16:12 (13) 15:47	13 15:04 (12) 15:40
29	05:09	06:14	07:20	07:27	15:52 (13) 08:35	14:52 (12) 09:07
	21:48	20:31	19:05	16:45	18 16:10 (13) 15:45	10 15:02 (12) 15:41
30	05:11	06:16	07:22	07:29	15:52 (13) 08:37	14:54 (12) 09:07
	21:46	20:29	19:02	16:43	15 16:07 (13) 15:44	6 15:00 (12) 15:42
31	05:13	06:19		07:31	15:54 (13)	09:07
	21:43	20:26		16:40	11 16:05 (13)	15:44
Potential sun hours	539	475	386	321	241	207
Total, worst case				480	460	3
Sun reduction				0,31	0,15	0,13
Oper. time red.				0,93	0,93	0,93
Wind dir. red.				0,87	0,67	0,67
Total reduction				0,25	0,10	0,08
Total, real				119	44	0

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

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

Shadow receptor: AA - 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
 0 1 Sum
 4 076 4 076 8 152

	January	February	March	April	May	June
1	09:07	10:47 (1)	08:27			
	15:46	11:31 (4)	16:46			
2	09:06	10:48 (1)	08:25			
	15:47	11:31 (4)	16:48			
3	09:06	10:50 (1)	08:23			
	15:48	11:31 (4)	16:51			
4	09:06	11:17 (4)	08:21			
	15:50	11:30 (4)	16:53			
5	09:05	11:19 (4)	08:19			
	15:51	11:30 (4)	16:55			
6	09:04	11:20 (4)	08:17			
	15:53	11:30 (4)	16:58			
7	09:04	11:23 (4)	08:14			
	15:54	11:28 (4)	17:00			
8	09:03		08:12			
	15:56		17:03			
9	09:02		08:10			
	15:57		17:05			
10	09:01		08:08			
	15:59		17:07			
11	09:00		08:05			
	16:01		17:10			
12	08:59		08:03			
	16:03		17:12			
13	08:58		08:00			
	16:05		17:15			
14	08:57		07:58			
	16:07		17:17			
15	08:56		07:56			
	16:09		17:19			
16	08:55		07:53			
	16:11		17:22			
17	08:53		07:51			
	16:13		17:24			
18	08:52		07:48			
	16:15		17:26			
19	08:50		07:46			
	16:17		17:29			
20	08:49		07:43			
	16:19		17:31			
21	08:47		07:41			
	16:21		17:33			
22	08:46		07:38			
	16:23		17:36			
23	08:44		07:35			
	16:25		17:38			
24	08:42		07:33			
	16:28		17:40			
25	08:41		07:30			
	16:30		17:43			
26	08:39		07:28			
	16:32		17:45			
27	08:37		07:25			
	16:34		17:47			
28	08:35		07:22			
	16:37		17:50			
29	08:33					
	16:39					
30	08:31					
	16:41					
31	08:29					
	16:44					
Potential sun hours	227	262	365	429	515	539
Total, worst case	106	230	8			
Sun reduction	0,13	0,22	0,37			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,23	0,86	0,86			
Total reduction	0,03	0,18	0,29			
Total, real	3	41	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AA - 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

0	1	Sum
4 076	4 076	8 152

	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	08:45
	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	20:13	18:48	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	16:24	15:38
8	04:33	05:30	06:36	07:40	07:50	08:51
	22:21	21:26	20:04	18:40	16:22	15:37
9	04:35	05:32	06:38	07:42	07:52	08:52
	22:20	21:23	20:01	18:37	16:20	15:37
10	04:36	05:34	06:40	07:44	07:55	08:54
	22:19	21:21	19:59	18:35	16:18	15:36
11	04:37	05:36	06:42	07:46	07:57	08:55
	22:18	21:18	19:56	18:32	16:16	15:36
12	04:39	05:38	06:44	07:49	07:59	08:56
	22:17	21:16	19:53	18:29	16:14	15:36
13	04:40	05:40	06:46	07:51	08:01	08:58
	22:15	21:14	19:50	18:27	16:12	15:35
14	04:42	05:43	06:49	07:53	08:04	08:59
	22:14	21:11	19:47	18:24	16:10	15:35
15	04:43	05:45	06:51	07:55	08:06	09:00
	22:13	21:09	19:45	18:21	16:08	15:35
16	04:45	05:47	06:53	07:57	08:08	09:01
	22:11	21:06	19:42	18:19	16:06	15:35
17	04:47	05:49	06:55	08:00	08:10	09:02
	22:10	21:03	19:39	18:16	16:04	15:35
18	04:48	05:51	06:57	08:02	08:13	09:03
	22:08	21:01	19:36	18:13	16:02	15:35
19	04:50	05:53	06:59	08:04	08:15	09:03
	22:06	20:58	19:33	18:11	16:01	15:35
20	04:52	05:55	07:01	08:06	08:17	09:04
	22:05	20:56	19:30	18:08	15:59	15:36
21	04:54	05:57	07:03	08:09	08:19	09:05
	22:03	20:53	19:28	18:05	15:57	15:36
22	04:56	06:00	07:05	08:11	08:21	09:05
	22:01	20:50	19:25	18:03	15:55	15:36
23	04:57	06:02	07:08	08:13	08:23	09:06
	22:00	20:48	19:22	18:00	15:54	15:37
24	04:59	06:04	07:10	08:15	08:25	09:06
	21:58	20:45	19:19	17:58	15:52	15:38
25	05:01	06:06	07:12	07:18	07:50	08:27
	21:56	20:43	19:16	16:55	15:51	15:38
26	05:03	06:08	07:14	07:20	07:53	08:30
	21:54	20:40	19:14	16:53	15:50	15:39
27	05:05	06:10	07:16	07:22	08:32	09:07
	21:52	20:37	19:11	16:50	15:48	15:40
28	05:07	06:12	07:18	07:25	08:34	09:07
	21:50	20:34	19:08	16:48	15:47	15:41
29	05:09	06:15	07:20	07:27	08:35	09:07
	21:48	20:32	19:05	16:45	15:46	15:42
30	05:11	06:17	07:22	07:29	08:37	09:07
	21:46	20:29	19:02	16:43	15:44	15:43
31	05:13	06:19		07:31		09:07
	21:44	20:26		16:40		15:44
Potential sun hours	539	475	386	321	241	207
Total, worst case				236		768
Sun reduction				0,31		0,13
Oper. time red.				0,93		0,93
Wind dir. red.				0,86		0,25
Total reduction				0,25		0,03
Total, real				58		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)

SHADOW - Calendar

Shadow receptor: AB - Jaunto šeni
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	January		February		March		April		May		June	
1	09:06		08:27	15:05 (9)	07:19		06:54	19:24 (10)	05:34	18:45 (12)	04:33	19:10 (12)
	15:45		16:46	28 15:33 (9)	17:52		20:01	8 19:32 (10)	21:07	58 19:43 (12)	22:09	11 19:21 (12)
2	09:06		08:25	15:06 (9)	07:17		06:51	19:22 (10)	05:31	18:44 (12)	04:31	
	15:47		16:48	27 15:33 (9)	17:54		20:03	12 19:34 (10)	21:09	58 19:42 (12)	22:10	
3	09:06		08:23	15:07 (9)	07:14		06:48	19:21 (10)	05:29	18:45 (12)	04:30	
	15:48		16:51	25 15:32 (9)	17:56		20:05	15 19:36 (10)	21:12	57 19:42 (12)	22:12	
4	09:05		08:21	15:07 (9)	07:11		06:45	19:20 (10)	05:26	18:45 (12)	04:29	
	15:49		16:53	24 15:31 (9)	17:59		20:08	18 19:38 (10)	21:14	57 19:42 (12)	22:13	
5	09:05		08:18	15:09 (9)	07:09		06:42	19:20 (10)	05:24	18:45 (12)	04:28	
	15:51		16:55	22 15:31 (9)	18:01		20:10	20 19:40 (10)	21:16	57 19:42 (12)	22:14	
6	09:04		08:16	15:10 (9)	07:06		06:40	19:19 (10)	05:22	18:44 (12)	04:27	
	15:52		16:58	19 15:29 (9)	18:03		20:12	20 19:39 (10)	21:18	57 19:41 (12)	22:16	
7	09:03		08:14	15:12 (9)	07:03		06:37	19:18 (10)	05:19	18:45 (12)	04:26	
	15:54		17:00	16 15:28 (9)	18:05		20:14	21 19:39 (10)	21:20	56 19:41 (12)	22:17	
8	09:03		08:12	15:14 (9)	07:00		06:34	19:18 (10)	05:17	18:45 (12)	04:25	
	15:56		17:02	11 15:25 (9)	18:08		20:16	20 19:38 (10)	21:23	56 19:41 (12)	22:18	
9	09:02		08:10		06:58		06:31	19:19 (10)	05:15	18:45 (12)	04:25	
	15:57		17:05		18:10		20:19	18 19:37 (10)	21:25	56 19:41 (12)	22:19	
10	09:01		08:07		06:55		06:29	19:19 (10)	05:12	18:46 (12)	04:24	
	15:59		17:07		18:12		20:21	17 19:36 (10)	21:27	54 19:40 (12)	22:20	
11	09:00		08:05		06:52		06:26	19:20 (10)	05:10	18:46 (12)	04:23	
	16:01		17:10		18:14		20:23	14 19:34 (10)	21:29	54 19:40 (12)	22:21	
12	08:59		08:03		06:49		06:23	19:10 (12)	05:08	18:47 (12)	04:23	
	16:03	6	15:16 (9)	17:12	18:17		20:25	22 19:32 (10)	21:31	52 19:39 (12)	22:22	
13	08:58		15:09 (9)	08:00	06:47		06:20	19:06 (12)	05:06	18:47 (12)	04:22	
	16:04	10	15:19 (9)	17:14	18:19		20:27	23 19:29 (12)	21:33	52 19:39 (12)	22:23	
14	08:57		15:07 (9)	07:58	06:44		06:18	19:02 (12)	05:04	18:48 (12)	04:22	
	16:06	14	15:21 (9)	17:17	18:21		20:30	29 19:31 (12)	21:35	50 19:38 (12)	22:24	
15	08:55		15:06 (9)	07:55	06:41	17:46 (11)	06:15	19:00 (12)	05:02	18:49 (12)	04:21	
	16:08	16	15:22 (9)	17:19	18:23	8 17:54 (11)	20:32	34 19:34 (12)	21:37	50 19:39 (12)	22:24	
16	08:54		15:06 (9)	07:53	06:38	17:44 (11)	06:12	18:58 (12)	05:00	18:50 (12)	04:21	
	16:10	18	15:24 (9)	17:21	18:26	13 17:57 (11)	20:34	37 19:35 (12)	21:39	48 19:38 (12)	22:25	
17	08:53		15:05 (9)	07:50	06:36	17:42 (11)	06:10	18:56 (12)	04:58	18:50 (12)	04:21	
	16:12	20	15:25 (9)	17:24	18:28	17 17:59 (11)	20:36	41 19:37 (12)	21:41	47 19:37 (12)	22:26	
18	08:51		15:04 (9)	07:48	06:33	17:40 (11)	06:07	18:54 (12)	04:56	18:51 (12)	04:21	
	16:14	22	15:26 (9)	17:26	18:30	21 18:01 (11)	20:38	44 19:38 (12)	21:43	45 19:36 (12)	22:26	
19	08:50		15:04 (9)	07:45	06:30	17:39 (11)	06:04	18:53 (12)	04:54	18:52 (12)	04:21	
	16:17	24	15:28 (9)	17:28	18:32	22 18:01 (11)	20:41	46 19:39 (12)	21:45	44 19:36 (12)	22:27	
20	08:49		15:04 (9)	07:43	06:27	17:37 (11)	06:02	18:52 (12)	04:52	18:53 (12)	04:21	
	16:19	25	15:29 (9)	17:31	18:35	24 18:01 (11)	20:43	47 19:39 (12)	21:47	42 19:35 (12)	22:27	
21	08:47		15:04 (9)	07:40	06:24	17:37 (11)	05:59	18:50 (12)	04:50	18:53 (12)	04:21	
	16:21	26	15:30 (9)	17:33	18:37	24 18:01 (11)	20:45	50 19:40 (12)	21:49	41 19:34 (12)	22:27	
22	08:45		15:03 (9)	07:38	06:22	17:37 (11)	05:56	18:50 (12)	04:48	18:55 (12)	04:21	
	16:23	27	15:30 (9)	17:36	18:39	25 18:02 (11)	20:47	51 19:41 (12)	21:51	39 19:34 (12)	22:27	
23	08:44		15:03 (9)	07:35	06:19	17:37 (11)	05:54	18:49 (12)	04:46	18:55 (12)	04:21	
	16:25	28	15:31 (9)	17:38	18:41	24 18:01 (11)	20:50	53 19:42 (12)	21:53	37 19:32 (12)	22:28	
24	08:42		15:03 (9)	07:33	06:16	17:36 (11)	05:51	18:48 (12)	04:45	18:57 (12)	04:22	
	16:27	29	15:32 (9)	17:40	18:43	25 18:01 (11)	20:52	53 19:41 (12)	21:55	35 19:32 (12)	22:28	
25	08:40		15:03 (9)	07:30	06:13	17:36 (11)	05:49	18:48 (12)	04:43	18:59 (12)	04:22	
	16:30	29	15:32 (9)	17:42	18:46	24 18:00 (11)	20:54	54 19:42 (12)	21:57	33 19:32 (12)	22:28	
26	08:39		15:03 (9)	07:27	06:10	17:36 (11)	05:46	18:46 (12)	04:41	18:59 (12)	04:22	
	16:32	30	15:33 (9)	17:45	18:48	22 17:58 (11)	20:56	56 19:42 (12)	21:59	31 19:30 (12)	22:28	
27	08:37		15:04 (9)	07:25	06:08	17:38 (11)	05:44	18:46 (12)	04:40	19:01 (12)	04:23	
	16:34	29	15:33 (9)	17:47	18:50	20 17:58 (11)	20:58	56 19:42 (12)	22:00	28 19:29 (12)	22:27	
28	08:35		15:03 (9)	07:22	06:05	17:39 (11)	05:41	18:45 (12)	04:38	19:03 (12)	04:24	
	16:37	30	15:33 (9)	17:49	18:52	17 17:56 (11)	21:01	57 19:42 (12)	22:02	25 19:28 (12)	22:27	
29	08:33		15:04 (9)		07:02	18:40 (11)	05:39	18:45 (12)	04:37	19:04 (12)	04:24	
	16:39	29	15:33 (9)		19:54	14 18:54 (11)	21:03	57 19:42 (12)	22:04	22 19:26 (12)	22:27	
30	08:31		15:04 (9)		06:59	18:43 (11)	05:36	18:45 (12)	04:35	19:06 (12)	04:25	
	16:41	29	15:33 (9)		19:57	7 18:50 (11)	21:05	58 19:43 (12)	22:05	19 19:25 (12)	22:26	
31	08:29		15:05 (9)		06:56	19:26 (10)			04:34	19:08 (12)		
	16:43	28	15:33 (9)		19:59	3 19:29 (10)			22:07	15 19:23 (12)		
Potential sun hours	227		262		365		429		515		539	
Total, worst case	469		172		310		1051		1375		11	
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.	0,66		0,66		0,99		0,99		0,99		0,99	
Total reduction	0,08		0,14		0,34		0,42		0,53		0,49	
Total, real	38		23		105		445		732		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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AB - Jaunto šeni
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

July		August		September		October		November		December	
1	04:26		05:15		18:57 (12) 06:21		19:20 (10) 07:24		07:33		08:39
	22:26		21:41	53	19:50 (12) 20:23	14	19:34 (10) 18:59		16:38		15:43
2	04:27		05:17		18:56 (12) 06:23		19:18 (10) 07:26		07:36		08:41
	22:25		21:39	54	19:50 (12) 20:20	17	19:35 (10) 18:56		16:35		15:42
3	04:28		05:19		18:56 (12) 06:25		19:17 (10) 07:29		07:38		08:42
	22:25		21:37	55	19:51 (12) 20:18	18	19:35 (10) 18:54		16:33	12	14:55 (9) 15:41
4	04:29		05:21		18:56 (12) 06:27		19:16 (10) 07:31		07:40		08:44
	22:24		21:35	55	19:51 (12) 20:15	20	19:36 (10) 18:51		16:31	17	14:58 (9) 15:40
5	04:30		05:23		18:55 (12) 06:29		19:15 (10) 07:33		07:43		08:46
	22:23		21:32	56	19:51 (12) 20:12	21	19:36 (10) 18:48		16:29	20	15:00 (9) 15:39
6	04:31		05:25		18:55 (12) 06:31		19:15 (10) 07:35		07:45		08:47
	22:23		21:30	57	19:52 (12) 20:09	20	19:35 (10) 18:45		16:26	23	15:01 (9) 15:39
7	04:32		05:27		18:55 (12) 06:33		19:15 (10) 07:37		07:47		08:49
	22:22		21:28	57	19:52 (12) 20:07	20	19:35 (10) 18:43		16:24	24	15:02 (9) 15:38
8	04:33		05:30		18:54 (12) 06:36		19:15 (10) 07:39		07:50		08:51
	22:21		21:25	58	19:52 (12) 20:04	18	19:33 (10) 18:40		16:22	25	15:02 (9) 15:37
9	04:34		05:32		18:54 (12) 06:38		19:15 (10) 07:42		07:52		08:52
	22:20		21:23	58	19:52 (12) 20:01	15	19:30 (10) 18:37		16:20	27	15:03 (9) 15:37
10	04:36		05:34		18:54 (12) 06:40		19:15 (10) 07:44		07:54		08:53
	22:19		21:21	58	19:52 (12) 19:58	12	19:27 (10) 18:34		16:18	27	15:03 (9) 15:36
11	04:37		05:36		18:54 (12) 06:42		19:16 (10) 07:46		07:56		08:55
	22:17	7	19:27 (12) 21:18	58	19:52 (12) 19:55	9	19:25 (10) 18:32		16:16	28	15:04 (9) 15:36
12	04:39		05:38		18:54 (12) 06:44		19:18 (10) 07:48		07:59		08:56
	22:16	14	19:31 (12) 21:16	57	19:51 (12) 19:53	4	19:22 (10) 18:29		16:14	29	15:05 (9) 15:35
13	04:40		05:40		18:54 (12) 06:46		18:36 (11) 07:50		08:01		08:57
	22:15	18	19:33 (12) 21:13	57	19:51 (12) 19:50	4	18:40 (11) 18:26		16:12	30	15:05 (9) 15:35
14	04:42		05:42		18:53 (12) 06:48		18:31 (11) 07:53		08:03		08:58
	22:14	21	19:34 (12) 21:11	57	19:50 (12) 19:47	13	18:44 (11) 18:24		16:10	29	15:05 (9) 15:35
15	04:43		05:44		18:53 (12) 06:50		18:29 (11) 07:55		08:06		08:59
	22:12	24	19:36 (12) 21:08	56	19:49 (12) 19:44	16	18:45 (11) 18:21		16:08	29	15:05 (9) 15:35
16	04:45		05:47		18:53 (12) 06:52		18:27 (11) 07:57		08:08		09:00
	22:11	27	19:37 (12) 21:06	56	19:49 (12) 19:41	19	18:46 (11) 18:18		16:06	30	15:06 (9) 15:35
17	04:47		05:49		18:53 (12) 06:55		18:25 (11) 07:59		08:10		09:01
	22:09	29	19:39 (12) 21:03	55	19:48 (12) 19:39	22	18:47 (11) 18:16		16:04	29	15:05 (9) 15:35
18	04:48		05:51		18:53 (12) 06:57		18:24 (11) 08:02		08:12		09:02
	22:08	32	19:40 (12) 21:01	55	19:48 (12) 19:36	23	18:47 (11) 18:13		16:02	29	15:06 (9) 15:35
19	04:50		05:53		18:53 (12) 06:59		18:23 (11) 08:04		08:14		09:03
	22:06	34	19:41 (12) 20:58	54	19:47 (12) 19:33	24	18:47 (11) 18:10		16:00	28	15:05 (9) 15:35
20	04:52		05:55		18:54 (12) 07:01		18:22 (11) 08:06		08:17		09:04
	22:04	36	19:43 (12) 20:55	52	19:46 (12) 19:30	25	18:47 (11) 18:08		15:59	27	15:05 (9) 15:35
21	04:54		05:57		18:54 (12) 07:03		18:23 (11) 08:08		08:19		09:04
	22:03	38	19:43 (12) 20:53	51	19:45 (12) 19:27	25	18:48 (11) 18:05		15:57	26	15:05 (9) 15:36
22	04:55		05:59		18:55 (12) 07:05		18:22 (11) 08:11		08:21		09:05
	22:01	39	19:44 (12) 20:50	49	19:44 (12) 19:25	25	18:47 (11) 18:03		15:55	25	15:05 (9) 15:36
23	04:57		06:02		18:56 (12) 07:07		18:22 (11) 08:13		08:23		09:05
	21:59	42	19:45 (12) 20:48	47	19:43 (12) 19:22	24	18:46 (11) 18:00		15:54	24	15:04 (9) 15:37
24	04:59		06:04		18:56 (12) 07:09		18:22 (11) 08:15		08:25		09:06
	21:57	43	19:46 (12) 20:45	46	19:42 (12) 19:19	23	18:45 (11) 17:57		15:52	22	15:04 (9) 15:37
25	05:01		06:06		18:57 (12) 07:11		18:22 (11) 07:17		08:27		09:06
	21:55	45	19:47 (12) 20:42	43	19:40 (12) 19:16	22	18:44 (11) 16:55		15:51	20	15:03 (9) 15:38
26	05:03		06:08		18:58 (12) 07:14		18:23 (11) 07:20		08:29		09:06
	21:54	46	19:48 (12) 20:40	40	19:38 (12) 19:13	19	18:42 (11) 16:52		15:49	18	15:02 (9) 15:39
27	05:05		06:10		19:00 (12) 07:16		18:24 (11) 07:22		08:31		09:07
	21:52	47	19:47 (12) 20:37	37	19:37 (12) 19:10	15	18:39 (11) 16:50		15:48	16	15:02 (9) 15:40
28	05:07		06:12		19:01 (12) 07:18		18:26 (11) 07:24		08:33		09:07
	21:50	48	19:48 (12) 20:34	33	19:34 (12) 19:08	10	18:36 (11) 16:47		15:47	14	15:01 (9) 15:41
29	05:09		06:14		19:03 (12) 07:20		07:27		08:35		09:07
	21:48	50	19:49 (12) 20:31	29	19:32 (12) 19:05		16:45		15:45	11	15:00 (9) 15:42
30	05:11		06:16		19:06 (12) 07:22		07:29		08:37		09:07
	21:45	51	19:50 (12) 20:29	23	19:29 (12) 19:02		16:43		15:44	7	14:58 (9) 15:43
31	05:13		06:19		19:10 (12)		07:31				09:07
	21:43	52	19:50 (12) 20:26	21	19:31 (10)		16:40				15:44
Potential sun hours	538		474		386		321		241		207
Total, worst case	743		1537		497				646		
Sun reduction	0,57		0,55		0,43				0,15		
Oper. time red.	0,93		0,93		0,93				0,93		
Wind dir. red.	0,99		0,99		0,99				0,66		
Total reduction	0,52		0,50		0,40				0,09		
Total, real	386		770		197				61		

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)

SHADOW - Calendar

Shadow receptor: AC - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	05:10 (5) 05:33 (2)	04:26 22:26	05:07 (5) 05:48 (2)	05:15 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	05:32 21:10	04:32 22:10	05:09 (5) 05:36 (2)	04:27 22:26	05:07 (5) 05:48 (2)	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	05:08 (5) 05:38 (2)	04:28 22:25	05:08 (5) 05:48 (2)	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	05:07 (5) 05:39 (2)	04:29 22:24	05:09 (5) 05:48 (2)	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	05:06 (5) 05:40 (2)	04:30 22:24	05:10 (5) 05:48 (2)	05:24 21:33	06:30 20:13	07:33 18:49	07:43 16:29	08:46 15:40
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	05:05 (5) 05:41 (2)	04:31 22:23	05:11 (5) 05:47 (2)	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:04 15:54	08:14 17:00	07:04 18:06	06:37 20:15	05:20 21:21	04:27 22:17	05:05 (5) 05:42 (2)	04:33 22:22	05:12 (5) 05:47 (2)	05:28 21:28	06:34 20:07	07:38 18:43	07:48 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	05:04 (5) 05:43 (2)	04:34 22:21	05:13 (5) 05:46 (2)	05:30 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	05:03 (5) 05:43 (2)	04:35 22:20	05:14 (5) 05:45 (2)	05:32 21:23	06:38 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	05:03 (5) 05:44 (2)	04:36 22:19	05:16 (5) 05:44 (2)	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:54 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21	05:03 (5) 05:44 (2)	04:38 22:18	05:17 (5) 05:42 (2)	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:08 21:31	04:23 22:22	05:03 (5) 05:45 (2)	04:39 22:16	05:18 (5) 05:22 (5)	05:39 21:16	06:44 19:53	07:49 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	05:04 (5) 05:46 (2)	04:41 22:15	05:20 (5) 05:21 (5)	05:41 21:13	06:47 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:36	04:22 22:24	05:03 (5) 05:45 (2)	04:42 22:14	05:19 (5) 05:45 (2)	05:43 21:11	06:49 19:47	07:53 18:24	08:04 16:10	08:59 15:35
15	08:56 16:09	07:56 17:19	06:41 18:24	06:15 20:32	05:02 21:38	04:22 22:25	05:03 (5) 05:46 (2)	04:44 22:12	05:45 (5) 05:46 (2)	05:45 21:08	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	05:04 (5) 05:47 (2)	04:45 22:11	05:47 (5) 05:47 (2)	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:21 22:26	05:04 (5) 05:47 (2)	04:47 22:09	05:49 (5) 05:47 (2)	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:02 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	05:04 (5) 05:47 (2)	04:49 22:08	05:51 (5) 05:47 (2)	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	05:04 (5) 05:48 (2)	04:51 22:06	05:53 (5) 05:48 (2)	05:53 21:01	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	05:04 (5) 05:48 (2)	04:52 22:05	05:56 (5) 05:48 (2)	05:56 21:03	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:45	04:50 21:50	04:21 22:27	05:04 (5) 05:48 (2)	04:54 22:03	05:58 (5) 05:48 (2)	05:58 21:03	07:03 19:28	08:09 18:06	08:19 15:57	09:05 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:28	05:05 (5) 05:49 (2)	04:56 22:01	06:00 (5) 05:50 (5)	06:00 21:25	07:06 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	05:05 (5) 05:49 (2)	04:58 21:59	06:02 (5) 05:50 (5)	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:05 (5) 05:48 (2)	05:00 21:58	06:04 (5) 05:48 (2)	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:06 (5) 05:49 (2)	05:02 21:56	06:06 (5) 05:49 (2)	06:06 20:42	07:12 19:16	08:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:06 (5) 05:49 (2)	05:03 21:54	06:08 (5) 05:49 (2)	06:08 20:40	07:14 19:14	08:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28	05:06 (5) 05:49 (2)	05:05 21:52	06:11 (5) 05:49 (2)	06:11 20:37	07:16 19:11	08:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:41 21:01	04:39 22:02	04:24 22:27	05:06 (5) 05:49 (2)	05:07 21:50	06:13 (5) 05:49 (2)	06:13 20:34	07:18 19:08	08:25 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:07 (5) 05:49 (2)	05:09 21:48	06:15 (5) 05:49 (2)	06:15 20:32	07:20 19:05	08:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:36 21:05	04:36 22:06	04:26 22:27	05:07 (5) 05:49 (2)	05:11 21:46	06:17 (5) 05:49 (2)	06:17 20:29	07:23 19:02	08:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07	05:11 (5) 05:14 (5)		05:13 21:44	06:19 20:26			07:31 16:41	08:41 15:44	09:07 15:44
Potential sun hours	227	262	365	429	515	539		538	474		386	321	241	207
Total, worst case					3	1167		368						
Sun reduction					0,58	0,53		0,57						
Oper. time red.					0,93	0,93		0,93						
Wind dir. red.					0,80	0,82		0,82						
Total reduction					0,43	0,40		0,43						
Total, real					1	471		158						

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AD - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:45	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:34 16:38	08:39 15:43
2	09:06 15:46	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:10	04:31 22:10	04:26 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:35	08:41 15:42
3	09:06 15:48	08:23 16:50	07:14 17:56	06:48 20:05	05:29 21:12	04:30 22:12	04:27 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:28 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:40
5	09:05 15:51	08:19 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:15	04:30 22:24	05:23 21:33	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39
6	09:04 15:52	08:16 16:58	07:06 18:03	06:40 20:12	05:21 21:18	04:27 22:16	04:31 22:23	05:25 21:30	06:31 20:10	07:35 18:45	07:45 16:26	08:48 15:38
7	09:04 15:54	08:14 17:00	07:03 18:05	06:37 20:14	05:19 21:21	04:26 22:17	04:32 22:22	05:27 21:28	06:33 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:03 15:55	08:12 17:02	07:01 18:08	06:34 20:17	05:17 21:23	04:25 22:18	04:33 22:21	05:29 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:37
9	09:02 15:57	08:10 17:05	06:58 18:10	06:31 20:19	05:15 21:25	04:24 22:19	04:34 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:12 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:34	07:54 16:18	08:54 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:23 22:21	04:37 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:23 20:25	05:08 21:31	04:22 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:13	08:56 15:35
13	08:58 16:04	08:00 17:14	06:47 18:19	06:20 20:28	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:26	08:01 16:11	08:57 15:35
14	08:57 16:06	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:36	04:22 22:24	04:42 22:14	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:09	08:59 15:35
15	08:56 16:08	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:38	04:21 22:25	04:43 22:12	05:44 21:08	06:50 19:44	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:10	07:53 17:21	06:38 18:26	06:12 20:34	04:59 21:40	04:21 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:18	08:08 16:06	09:01 15:35
17	08:53 16:12	07:51 17:24	06:36 18:28	06:10 20:36	04:57 21:42	04:21 22:26	04:46 22:10	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:02 15:35
18	08:52 16:14	07:48 17:26	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:48 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:03 15:35
19	08:50 16:16	07:46 17:28	06:30 18:32	06:04 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:15 16:00	09:03 15:35
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:35
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:50	04:21 22:28	04:53 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:05 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39	05:56 20:48	04:48 21:52	04:21 22:28	04:55 22:01	05:59 20:50	07:05 19:25	08:11 18:03	08:21 15:55	09:05 15:36
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:46 21:53	04:21 22:28	04:57 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:27	07:33 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:21 22:28	04:59 21:58	06:04 20:45	07:09 19:19	08:15 17:57	08:25 15:52	09:06 15:37
25	08:41 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:38
26	08:39 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:41 21:59	04:22 22:28	05:03 21:54	06:08 20:40	07:14 19:13	07:20 16:52	08:29 15:49	09:07 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:36	07:22 17:49	06:05 18:52	05:41 21:01	04:38 22:02	04:23 22:27	05:07 21:50	06:12 20:34	07:18 19:08	07:24 16:47	08:33 15:47	09:07 15:40
29	08:33 16:39		07:02 19:54	05:38 21:03	04:37 22:04	04:24 22:27	05:09 21:48	06:14 20:32	07:20 19:05	07:27 16:45	08:35 15:45	09:07 15:41
30	08:31 16:41		06:59 19:57	05:36 21:05	04:35 22:06	04:25 22:27	05:11 21:46	06:16 20:29	07:22 19:02	07:29 16:43	08:37 15:44	09:07 15:43
31	08:29 16:43		06:56 19:59		04:34 22:07		05:13 21:44	06:19 20:26		07:31 16:40		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AE - 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
0 1 Sum
4 076 4 076 8 152

	January			February			March			April			May			June	
1	09:07		10:23 (2)	08:27			07:20		08:17 (3)	06:54		07:21 (1)	05:34		04:33		
	15:46	27	10:50 (2)	16:46			17:52	38	08:55 (3)	20:01	20	07:41 (1)	21:08		22:09		
2	09:06		10:24 (2)	08:25			07:17		08:16 (3)	06:51		07:20 (1)	05:31		04:32		
	15:47	27	10:51 (2)	16:49			17:54	40	08:56 (3)	20:04	20	07:40 (1)	21:10		22:10		
3	09:06		10:24 (2)	08:23			07:14		08:14 (3)	06:48		07:20 (1)	05:29		04:31		
	15:48	27	10:51 (2)	16:51			17:57	42	08:56 (3)	20:06	19	07:39 (1)	21:12		22:12		
4	09:06		10:24 (2)	08:21			07:12		08:14 (3)	06:46		07:21 (1)	05:27		04:30		
	15:50	27	10:51 (2)	16:53			17:59	44	08:58 (3)	20:08	18	07:39 (1)	21:14		22:13		
5	09:05		10:26 (2)	08:19			07:09		08:13 (3)	06:43		07:21 (1)	05:24		04:28		
	15:51	26	10:52 (2)	16:56			18:01	45	08:58 (3)	20:10	17	07:38 (1)	21:16		22:15		
6	09:04		10:26 (2)	08:17			07:06		08:12 (3)	06:40		07:21 (1)	05:22		04:28		
	15:53	27	10:53 (2)	16:58			18:04	46	08:58 (3)	20:12	16	07:37 (1)	21:19		22:16		
7	09:04		10:27 (2)	08:14			07:04		08:12 (3)	06:37		07:22 (1)	05:20		04:27		
	15:54	26	10:53 (2)	17:00			18:06	46	08:58 (3)	20:15	13	07:35 (1)	21:21		22:17		
8	09:03		10:26 (2)	08:12			07:01		08:11 (3)	06:35		07:25 (1)	05:17		04:26		
	15:56	26	10:52 (2)	17:03			18:08	46	08:57 (3)	20:17	7	07:32 (1)	21:23		22:18		
9	09:02		10:27 (2)	08:10			06:58		08:12 (3)	06:32			05:15		04:25		
	15:58	26	10:53 (2)	17:05			18:10	46	08:58 (3)	20:19			21:25		22:19		
10	09:01		10:28 (2)	08:08			06:55		08:11 (3)	06:29			05:13		04:24		
	15:59	25	10:53 (2)	17:08			18:13	46	08:57 (3)	20:21			21:27		22:21		
11	09:00		10:29 (2)	08:05		08:38 (5)	06:53		08:11 (3)	06:26			05:11		04:24		
	16:01	25	10:54 (2)	17:10	9	08:47 (5)	18:15	46	08:57 (3)	20:23			21:29		22:21		
12	08:59		10:29 (2)	08:03		08:36 (5)	06:50		07:23 (4)	06:24			05:08		04:23		
	16:03	24	10:53 (2)	17:12	14	08:50 (5)	18:17	55	08:56 (3)	20:26			21:31		22:22		
13	08:58		10:30 (2)	08:00		08:34 (5)	06:47		07:20 (4)	06:21			05:06		04:23		
	16:05	24	10:54 (2)	17:15	17	08:51 (5)	18:19	60	08:55 (3)	20:28			21:34		22:23		
14	08:57		10:30 (2)	07:58		08:32 (5)	06:44		07:18 (4)	06:18			05:04		04:22		
	16:07	23	10:53 (2)	17:17	20	08:52 (5)	18:22	63	08:55 (3)	20:30			21:36		22:24		
15	08:56		10:32 (2)	07:56		08:32 (5)	06:41		07:16 (4)	06:15			05:02		04:22		
	16:09	22	10:54 (2)	17:19	22	08:54 (5)	18:24	65	08:54 (3)	20:32			21:38		22:25		
16	08:55		10:32 (2)	07:53		08:31 (5)	06:39		07:15 (4)	06:13			05:00		04:21		
	16:11	21	10:53 (2)	17:22	23	08:54 (5)	18:26	66	08:53 (3)	20:34			21:40		22:25		
17	08:53		10:33 (2)	07:51		08:31 (5)	06:36		07:14 (4)	06:10			04:58		04:21		
	16:13	19	10:52 (2)	17:24	24	08:55 (5)	18:28	65	08:51 (3)	20:37			21:42		22:26		
18	08:52		10:35 (2)	07:48		08:30 (5)	06:33		07:12 (4)	06:07			04:56		04:21		
	16:15	17	10:52 (2)	17:26	25	08:55 (5)	18:30	65	08:50 (3)	20:39			21:44		22:27		
19	08:50		10:36 (2)	07:46		08:29 (5)	06:30		07:12 (4)	06:05			04:54		04:21		
	16:17	15	10:51 (2)	17:29	26	08:55 (5)	18:33	62	08:48 (3)	20:41			21:46		22:27		
20	08:49		10:38 (2)	07:43		08:30 (5)	06:28		07:12 (4)	06:02			04:52		04:21		
	16:19	12	10:50 (2)	17:31	26	08:56 (5)	18:35	59	08:46 (3)	20:43			21:48		22:27		
21	08:47		10:41 (2)	07:41		08:30 (5)	06:25		07:11 (4)	05:59			04:50		04:21		
	16:21	6	10:47 (2)	17:34	25	08:55 (5)	18:37	57	08:44 (3)	20:45			21:50		22:28		
22	08:46			07:38		08:30 (5)	06:22		07:11 (4)	05:57			04:48		04:21		
	16:23			17:36	24	08:54 (5)	18:39	51	08:41 (3)	20:48			21:52		22:28		
23	08:44			07:35		08:29 (3)	06:19		07:11 (4)	05:54			04:47		04:22		
	16:26			17:38	24	08:53 (5)	18:42	42	08:36 (3)	20:50			21:53		22:28		
24	08:42			07:33		08:26 (3)	06:16		07:11 (4)	05:52			04:45		04:22		
	16:28			17:41	27	08:53 (5)	18:44	27	07:38 (4)	20:52			21:55		22:28		
25	08:41			07:30		08:24 (3)	06:14		07:11 (4)	05:49			04:43		04:22		
	16:30			17:43	28	08:52 (5)	18:46	26	07:37 (4)	20:54			21:57		22:28		
26	08:39			07:28		08:21 (3)	06:11		07:13 (4)	05:46			04:42		04:23		
	16:32			17:45	31	08:52 (3)	18:48	23	07:36 (4)	20:57			21:59		22:28		
27	08:37			07:25		08:20 (3)	06:08		06:34 (1)	05:44			04:40		04:23		
	16:35			17:47	34	08:54 (3)	18:50	23	07:34 (4)	20:59			22:01		22:28		
28	08:35			07:22		08:18 (3)	06:05		06:31 (1)	05:41			04:39		04:24		
	16:37			17:50	37	08:55 (3)	18:53	24	07:32 (4)	21:01			22:02		22:27		
29	08:33						07:02		07:28 (1)	05:39			04:37		04:25		
	16:39						19:55	23	08:29 (4)	21:03			22:04		22:27		
30	08:31						07:00		07:26 (1)	05:36			04:36		04:25		
	16:42						19:57	15	07:41 (1)	21:05			22:06		22:27		
31	08:29						06:57		07:23 (1)				04:34				
	16:44						19:59	18	07:41 (1)				22:07				
Potential sun hours	227				262			365			429			515	539		
Total, worst case		472				436			1374			130					
Sun reduction		0,13				0,22			0,37			0,46					
Oper. time red.		0,93				0,93			0,93			0,93					
Wind dir. red.		0,39				0,83			0,90			1,00					
Total reduction		0,05				0,17			0,31			0,43					
Total, real		22				74			421			56					

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

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

SHADOW - Calendar

Shadow receptor: AE - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December				
1	04:26	05:15	06:21	07:25	08:01 (4)	07:34	08:39	10:11 (2)		
	22:26	21:42	20:24	19:00	58 09:35 (3)	16:38	15:43	25 10:36 (2)		
2	04:27	05:17	06:23	07:27	08:06 (4)	07:36	08:41	10:11 (2)		
	22:26	21:39	20:21	18:57	48 09:35 (3)	16:36	15:42	25 10:36 (2)		
3	04:28	05:19	06:25	07:29	08:49 (3)	07:38	08:43	10:11 (2)		
	22:25	21:37	20:18	18:54	47 09:36 (3)	16:34	15:41	26 10:37 (2)		
4	04:29	05:22	06:27	07:22 (1)	07:31	08:49 (3)	07:41	10:11 (2)		
	22:24	21:35	20:15	7 07:29 (1)	18:51	09:35 (3)	16:31	15:41	27 10:38 (2)	
5	04:30	05:24	06:30	07:19 (1)	07:33	08:48 (3)	07:43	08:46	10:12 (2)	
	22:24	21:33	20:13	13 07:32 (1)	18:49	09:35 (3)	16:29	15:40	26 10:38 (2)	
6	04:31	05:26	06:32	07:17 (1)	07:35	08:48 (3)	07:45	08:48	10:11 (2)	
	22:23	21:30	20:10	16 07:33 (1)	18:46	09:34 (3)	16:27	15:39	27 10:38 (2)	
7	04:32	05:28	06:34	07:16 (1)	07:38	08:49 (3)	07:48	08:49	10:12 (2)	
	22:22	21:28	20:07	17 07:33 (1)	18:43	09:34 (3)	16:24	15:38	26 10:38 (2)	
8	04:34	05:30	06:36	07:15 (1)	07:40	08:48 (3)	07:50	08:51	10:12 (2)	
	22:21	21:26	20:04	19 07:34 (1)	18:40	09:33 (3)	16:22	15:38	27 10:39 (2)	
9	04:35	05:32	06:38	07:14 (1)	07:42	08:48 (3)	07:52	08:52	10:13 (2)	
	22:20	21:23	20:01	20 07:34 (1)	18:38	09:32 (3)	16:20	15:37	27 10:40 (2)	
10	04:36	05:34	06:40	07:14 (1)	07:44	08:48 (3)	07:55	08:54	10:13 (2)	
	22:19	21:21	19:59	19 07:33 (1)	18:35	09:31 (3)	16:18	15:36	27 10:40 (2)	
11	04:38	05:36	06:42	07:13 (1)	07:46	08:50 (3)	07:57	08:55	10:14 (2)	
	22:18	21:18	19:56	20 07:33 (1)	18:32	09:31 (3)	16:16	15:36	27 10:41 (2)	
12	04:39	05:38	06:44	07:14 (1)	07:49	08:50 (3)	07:59	08:56	10:14 (2)	
	22:17	21:16	19:53	18 07:32 (1)	18:29	09:29 (3)	16:14	15:36	27 10:41 (2)	
13	04:41	05:41	06:46	07:16 (1)	07:51	08:50 (3)	08:01	08:58	10:14 (2)	
	22:15	21:14	19:50	15 07:31 (1)	18:27	09:28 (3)	16:12	15:35	27 10:41 (2)	
14	04:42	05:43	06:49	07:18 (1)	07:53	08:52 (3)	08:04	08:59	10:15 (2)	
	22:14	21:11	19:47	23 08:19 (4)	18:24	09:27 (3)	16:10	15:35	27 10:42 (2)	
15	04:44	05:45	06:51	07:20 (1)	07:55	08:53 (3)	08:06	09:00	10:16 (2)	
	22:13	21:09	19:45	25 08:21 (4)	18:21	09:25 (3)	16:08	15:35	26 10:42 (2)	
16	04:45	05:47	06:53	07:22 (1)	07:57	08:54 (3)	08:08	09:01	10:16 (2)	
	22:11	21:06	19:42	24 08:23 (4)	18:19	09:23 (3)	16:06	15:35	27 10:43 (2)	
17	04:47	05:49	06:55	08:01 (4)	08:00	08:56 (3)	08:10	09:02	10:17 (2)	
	22:10	21:03	19:39	24 08:25 (4)	18:16	09:24 (5)	16:04	15:35	26 10:43 (2)	
18	04:49	05:51	06:57	08:00 (4)	08:02	08:59 (3)	08:13	09:03	10:17 (2)	
	22:08	21:01	19:36	25 08:25 (4)	18:13	09:25 (5)	16:02	15:35	27 10:44 (2)	
19	04:50	05:53	06:59	07:59 (4)	08:04	09:01 (5)	08:15	09:03	10:17 (2)	
	22:06	20:58	19:33	26 08:25 (4)	18:11	09:25 (5)	16:01	15:36	26 10:43 (2)	
20	04:52	05:55	07:01	07:58 (4)	08:06	09:01 (5)	08:17	09:04	10:18 (2)	
	22:05	20:56	19:30	38 09:21 (3)	18:08	09:26 (5)	15:59	15:36	26 10:44 (2)	
21	04:54	05:58	07:03	07:57 (4)	08:09	09:00 (5)	08:19	09:05	10:19 (2)	
	22:03	20:53	19:28	48 09:25 (3)	18:06	09:25 (5)	15:57	6 10:23 (2)	15:36	26 10:45 (2)
22	04:56	06:00	07:05	07:56 (4)	08:11	09:00 (5)	08:21	10:14 (2)	09:05	10:19 (2)
	22:01	20:51	19:25	54 09:28 (3)	18:03	09:26 (5)	15:56	12 10:26 (2)	15:37	26 10:45 (2)
23	04:58	06:02	07:08	07:56 (4)	08:13	09:00 (5)	08:23	10:14 (2)	09:06	10:20 (2)
	22:00	20:48	19:22	59 09:30 (3)	18:00	09:25 (5)	15:54	14 10:28 (2)	15:37	26 10:46 (2)
24	05:00	06:04	07:10	07:55 (4)	08:15	09:00 (5)	08:25	10:12 (2)	09:06	10:20 (2)
	21:58	20:45	19:19	62 09:31 (3)	17:58	09:25 (5)	15:53	17 10:29 (2)	15:38	26 10:46 (2)
25	05:01	06:06	07:12	07:55 (4)	07:18	08:00 (5)	08:27	10:11 (2)	09:07	10:20 (2)
	21:56	20:43	19:16	64 09:32 (3)	16:55	08:24 (5)	15:51	19 10:30 (2)	15:38	27 10:47 (2)
26	05:03	06:08	07:14	07:55 (4)	07:20	08:01 (5)	08:30	10:11 (2)	09:07	10:20 (2)
	21:54	20:40	19:14	65 09:33 (3)	16:53	08:24 (5)	15:50	21 10:32 (2)	15:39	27 10:47 (2)
27	05:05	06:10	07:16	07:56 (4)	07:22	08:01 (5)	08:32	10:11 (2)	09:07	10:21 (2)
	21:52	20:37	19:11	66 09:34 (3)	16:50	08:23 (5)	15:48	22 10:33 (2)	15:40	27 10:48 (2)
28	05:07	06:13	07:18	07:57 (4)	07:25	08:03 (5)	08:33	10:10 (2)	09:07	10:21 (2)
	21:50	20:34	19:08	66 09:35 (3)	16:48	08:22 (5)	15:47	23 10:33 (2)	15:41	27 10:48 (2)
29	05:09	06:15	07:20	07:58 (4)	07:27	08:03 (5)	08:35	10:10 (2)	09:07	10:22 (2)
	21:48	20:32	19:05	64 09:35 (3)	16:45	08:20 (5)	15:46	24 10:34 (2)	15:42	27 10:49 (2)
30	05:11	06:17	07:23	07:59 (4)	07:29	08:06 (5)	08:37	10:11 (2)	09:07	10:23 (2)
	21:46	20:29	19:02	62 09:35 (3)	16:43	08:19 (5)	15:45	24 10:35 (2)	15:43	27 10:50 (2)
31	05:13	06:19		07:31	08:08 (5)			09:07	10:23 (2)	
	21:44	20:26		16:41	7 08:15 (5)			15:44	26 10:49 (2)	
Potential sun hours	538	474	386	321	241			207		
Total, worst case			959	1012		182		821		
Sun reduction			0,43	0,31		0,15		0,13		
Oper. time red.			0,93	0,93		0,93		0,93		
Wind dir. red.			0,93	0,85		0,39		0,39		
Total reduction			0,37	0,24		0,06		0,05		
Total, real			358	245		10		38		

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: AF - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December			
1	09:06 15:45	08:27 16:46	07:19 17:52	06:54 20:01	18:49 (8) 19:31 (8)	05:34 21:07	19:02 (8) 19:06 (8)	04:33 22:08	04:26 22:26	05:15 21:41	06:21 20:23	18:40 (8) 19:33 (8)	07:24 18:59	07:33 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	18:48 (8) 19:32 (8)	05:31 21:09		04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:20	18:39 (8) 19:32 (8)	07:26 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:56	06:48 20:05	18:46 (8) 19:32 (8)	05:29 21:12		04:30 22:11	04:28 22:25	05:19 21:37	06:25 20:18	18:39 (8) 19:32 (8)	07:29 18:54	07:38 16:33	08:42 15:41
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:08	18:45 (8) 19:32 (8)	05:26 21:14		04:29 22:13	04:29 22:24	05:21 21:34	06:27 20:15	18:39 (8) 19:31 (8)	07:31 18:51	07:40 16:31	08:44 15:40
5	09:05 15:51	08:18 16:55	07:09 18:01	06:43 20:10	18:44 (8) 19:33 (8)	05:24 21:16		04:28 22:14	04:30 22:23	05:23 21:32	06:29 20:12	18:39 (8) 19:30 (8)	07:33 18:48	07:43 16:29	08:46 15:39
6	09:04 15:52	08:16 16:58	07:06 18:03	06:40 20:12	18:43 (8) 19:33 (8)	05:22 21:18		04:27 22:15	04:31 22:22	05:25 21:30	06:31 20:09	18:39 (8) 19:30 (8)	07:35 18:45	07:45 16:26	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:05	06:37 20:14	18:42 (8) 19:33 (8)	05:19 21:20		04:26 22:17	04:32 22:22	05:28 21:28	06:34 20:07	18:39 (8) 19:29 (8)	07:37 18:43	07:47 16:24	08:49 15:38
8	09:03 15:56	08:12 17:02	07:00 18:08	06:34 20:16	18:41 (8) 19:33 (8)	05:17 21:22		04:26 22:18	04:33 22:21	05:30 21:25	06:36 20:04	18:40 (8) 19:28 (8)	07:39 18:40	07:50 16:22	08:50 15:37
9	09:02 15:57	08:09 17:05	06:58 18:10	06:31 20:19	18:41 (8) 19:34 (8)	05:15 21:25		04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	18:40 (8) 19:26 (8)	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	18:40 (8) 19:33 (8)	05:13 21:27		04:24 22:20	04:36 22:18	05:34 21:20	06:40 19:58	18:41 (8) 19:25 (8)	07:44 18:34	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	18:40 (8) 19:33 (8)	05:10 21:29		04:23 22:21	04:37 22:17	05:36 21:18	06:42 19:55	18:41 (8) 19:23 (8)	07:46 18:32	07:56 16:16	08:55 15:36
12	08:59 16:03	08:02 17:12	06:49 18:17	06:23 20:25	18:40 (8) 19:33 (8)	05:08 21:31		04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:08 (8)	18:42 (8) 19:17 (8)	07:48 18:53	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	06:21 20:27	18:40 (8) 19:33 (8)	05:06 21:33		04:22 22:23	04:40 22:15	05:40 21:13	9 18	19:03 (8) 19:21 (8)	19:50 19:36	07:55 18:26	09:00 15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	18:39 (8) 19:32 (8)	05:04 21:35		04:22 22:24	04:42 22:13	05:42 21:11	18 24	19:00 (8) 19:24 (8)	06:48 19:47	08:03 18:24	08:58 15:38
15	08:55 16:09	07:55 17:19	06:41 18:23	06:15 20:32	18:40 (8) 19:32 (8)	05:02 21:37		04:22 22:24	04:43 22:12	05:45 21:08	29	18:57 (8) 19:26 (8)	06:50 19:44	08:05 18:21	08:59 15:35
16	08:54 16:11	07:53 17:21	06:38 18:26	06:12 20:34	18:39 (8) 19:31 (8)	05:00 21:39		04:21 22:25	04:45 22:11	05:47 21:06	32	18:55 (8) 19:27 (8)	06:52 19:41	08:08 18:18	09:00 15:35
17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	18:40 (8) 19:31 (8)	04:58 21:41		04:21 22:26	04:47 22:09	05:49 21:03	36	18:53 (8) 19:29 (8)	06:55 19:39	08:10 18:16	09:01 15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	18:40 (8) 19:30 (8)	04:56 21:43		04:21 22:26	04:48 22:08	05:51 21:01	38	18:51 (8) 19:29 (8)	06:57 19:36	08:12 18:13	09:02 15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	06:04 20:41	18:41 (8) 19:30 (8)	04:54 21:45		04:21 22:26	04:50 22:06	05:53 20:58	41	18:49 (8) 19:30 (8)	06:59 19:30	08:14 18:10	09:03 16:00
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	18:41 (8) 19:28 (8)	04:52 21:47		04:21 22:27	04:52 22:04	05:55 20:55	43	18:48 (8) 19:31 (8)	07:01 19:30	08:06 18:08	09:04 15:36
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	18:42 (8) 19:28 (8)	04:50 21:49		04:21 22:27	04:54 22:03	05:57 20:53	44	18:47 (8) 19:31 (8)	07:03 19:27	08:08 18:05	09:04 15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	05:57 20:47	18:42 (8) 19:26 (8)	04:48 21:51		04:21 22:27	04:56 22:01	05:59 20:50	46	18:46 (8) 19:32 (8)	07:05 19:25	08:11 18:03	09:05 15:36
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	18:44 (8) 19:26 (8)	04:46 21:53		04:21 22:27	04:57 21:59	06:02 20:47	48	18:44 (8) 19:32 (8)	07:07 19:22	08:13 18:00	09:05 15:37
24	08:42 16:28	07:33 17:40	06:16 18:43	05:51 20:52	18:44 (8) 19:24 (8)	04:45 21:55		04:22 22:28	04:59 21:57	06:04 20:45	49	18:44 (8) 19:33 (8)	07:09 19:19	08:15 17:58	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	18:46 (8) 19:23 (8)	04:43 21:57		04:22 22:27	05:01 21:55	06:06 20:42	50	18:43 (8) 19:33 (8)	07:12 19:16	08:16 17:55	09:06 15:38
26	08:38 16:32	07:27 17:45	06:10 18:48	05:46 20:56	18:46 (8) 19:21 (8)	04:41 21:59		04:23 22:27	05:03 21:53	06:08 20:39	51	18:42 (8) 19:33 (8)	07:14 19:13	08:17 17:53	09:07 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	18:01 (8) 18:21 (8)	04:40 22:00		04:23 22:27	05:05 21:51	06:10 20:37	52	18:41 (8) 19:33 (8)	07:16 19:10	08:18 17:50	09:07 15:40
28	08:35 16:37	07:22 17:49	06:05 18:52	05:41 20:58	17:57 (8) 18:23 (8)	04:38 22:01		04:24 22:27	05:07 21:49	06:12 20:34	53	18:41 (8) 19:34 (8)	07:18 19:08	08:19 17:52	09:07 15:41
29	08:33 16:39	07:02 17:54	05:59 18:55	05:39 21:03	18:55 (8) 19:25 (8)	04:37 22:04		04:24 22:27	05:09 21:47	06:14 20:31	53	18:41 (8) 19:34 (8)	07:20 19:05	08:20 17:54	09:07 15:42
30	08:31 16:41	06:59 17:57	05:59 18:52	05:36 21:05	18:52 (8) 19:27 (8)	04:36 22:05		04:25 22:26	05:11 21:45	06:17 20:29	54	18:40 (8) 19:34 (8)	07:22 19:02	08:22 17:54	09:07 15:43
31	08:29 16:44	06:56 17:59	05:56 18:59	05:34 21:05	18:50 (8) 19:29 (8)	04:34 22:07		04:26 22:26	05:13 21:43	06:19 20:26	54	18:40 (8) 19:33 (8)	07:23 19:02	08:23 17:54	09:06 15:44
Potential sun hours	227	262	365	429	515	539	538	474	823	713	386	321	241	207	
Total, worst case			162	1344	4				823	713					
Sun reduction			0,37	0,46	0,58				0,55	0,43					
Oper. time red.			0,93	0,93	0,93				0,93	0,93					
Wind dir. red.			1,00	1,00	1,00				1,00	1,00					
Total reduction			0,34	0,43	0,54				0,51	0,40					
Total, real			55	575	2				417	284					

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AG - 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

0	1	Sum
4 076	4 076	8 152

	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	08:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	17:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	08:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	17:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	08:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	17:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	08:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	17:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	08:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	17:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	08:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	17:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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

SHADOW - Calendar

Shadow receptor: AH - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:32 21:10	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:32	06:30 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:20 21:21	04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:47 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:53 15:37
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:11 21:29	04:24 22:21	04:38 22:17	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:46 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:56 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:24	04:44 22:12	05:45 21:08	06:51 19:44	07:55 18:21	08:06 16:08	08:59 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:36	04:58 21:42	04:21 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:01 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:09 18:06	08:19 15:57	09:04 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:27	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:57	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:40 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:02 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:03 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:00	04:23 22:27	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:36 21:05	04:36 22:05	04:26 22:26	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:43	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: AI - 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

0	1	Sum
4 076	4 076	8 152

January		February		March	April	May	June	July	August	September	October	November	December	
1	09:07	09:53 (13)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39	09:39 (13)
	15:45	27	10:20 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	09:53 (13)	08:25	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36	08:41	09:40 (13)
	15:47	28	10:21 (13)	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	09:53 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43	09:40 (13)
	15:48	28	10:21 (13)	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	09:53 (13)	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:44	09:40 (13)
	15:49	28	10:21 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	09:55 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46	09:41 (13)
	15:51	27	10:22 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	09:55 (13)	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	08:48	09:40 (13)
	15:52	28	10:23 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	09:55 (13)	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:47	08:49	09:41 (13)
	15:54	28	10:23 (13)	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	09:55 (13)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51	09:41 (13)
	15:56	28	10:23 (13)	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	09:56 (13)	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52	09:42 (13)
	15:57	27	10:23 (13)	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	09:56 (13)	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54	09:42 (13)
	15:59	28	10:24 (13)	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:36
11	09:00	09:57 (13)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55	09:43 (13)
	16:01	27	10:24 (13)	17:10	18:15	20:23	22:21	22:18	21:18	19:56	18:32	16:16	15:36	15:36
12	08:59	09:57 (13)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56	09:43 (13)
	16:03	27	10:24 (13)	17:12	18:17	20:25	22:22	22:16	21:16	19:53	18:29	16:14	15:35	15:35
13	08:58	09:58 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:58	09:43 (13)
	16:04	26	10:24 (13)	17:14	18:19	20:28	22:23	22:15	21:13	19:50	18:26	16:12	15:35	15:35
14	08:57	09:59 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:59	09:45 (13)
	16:06	25	10:24 (13)	17:17	18:21	20:30	22:24	22:14	21:11	19:47	18:24	16:10	15:35	15:35
15	08:56	10:00 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00	09:45 (13)
	16:08	25	10:25 (13)	17:19	18:24	20:32	22:25	22:12	21:08	19:44	18:21	16:08	15:35	15:35
16	08:54	10:00 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01	09:46 (13)
	16:10	24	10:24 (13)	17:21	18:26	20:34	22:25	22:11	21:06	19:42	18:18	16:06	15:35	15:35
17	08:53	10:01 (13)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:02	09:47 (13)
	16:12	23	10:24 (13)	17:24	18:28	20:36	22:26	22:10	21:03	19:39	18:16	16:04	15:35	15:35
18	08:52	10:03 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12	09:03	09:48 (13)
	16:14	21	10:24 (13)	17:26	18:30	20:39	22:27	22:08	21:01	19:36	18:13	16:02	15:35	15:35
19	08:50	10:03 (13)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:04	09:48 (13)
	16:17	20	10:23 (13)	17:29	18:32	20:41	22:27	22:06	20:58	19:33	18:10	16:00	15:35	15:35
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	09:04	09:49 (13)
	16:19	17	10:22 (13)	17:31	18:35	20:43	22:27	22:05	20:56	19:30	18:08	15:59	15:35	15:35
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	09:05	09:50 (13)
	16:21	15	10:21 (13)	17:33	18:37	20:45	22:28	22:03	20:53	19:27	18:05	15:57	15:36	15:36
22	08:46	10:08 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05	09:50 (13)
	16:23	12	10:20 (13)	17:36	18:39	20:48	22:28	22:01	20:50	19:25	18:03	15:55	15:36	15:36
23	08:44	10:11 (13)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06	09:51 (13)
	16:25	6	10:17 (13)	17:38	18:41	20:50	22:28	21:59	20:48	19:22	18:00	15:54	15:37	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	09:51 (13)
	16:27		17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:37	15:37
25	08:41		07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	08:18	08:27	09:07	09:51 (13)
	16:30		17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	15:38
26	08:39		07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	08:20	08:29	09:07	09:51 (13)
	16:32		17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	15:39
27	08:37		07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	08:22	08:31	09:07	09:51 (13)
	16:34		17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	15:40
28	08:35		07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	08:24	08:33	09:07	09:51 (13)
	16:37		17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41	15:41
29	08:33			07:02	05:39	04:37	04:24	05:09	06:14	07:20	08:27	08:35	09:07	09:51 (13)
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:42	15:42
30	08:31			06:59	05:36	04:35	04:25	05:11	06:17	07:22	08:29	08:37	09:07	09:52 (13)
	16:41			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43	15:43
31	08:29			06:56		04:34		05:13	06:19		07:31		09:07	09:52 (13)
	16:43			19:59		22:07		21:44	20:26		16:40		15:44	15:44
Potential sun hours	227		262	365	430	516	539	539	475	386	321	241	207	826
Total, worst case		545												0,13
Sun reduction		0,13												0,13
Oper. time red.		0,93												0,93
Wind dir. red.		0,49												0,49
Total reduction		0,06												0,06
Total, real		33												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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AJ - 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

0	1	Sum
4 076	4 076	8 152

	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			06:30 (3)
	15:46			16:46	37		10:17 (2)	17:52			20:01			21:08	49		07:15 (3)	22:09	49		07:19 (3)
2	09:06			08:25			09:39 (2)	07:17			06:51			05:31			06:01 (1)	04:32			06:31 (3)
	15:47			16:49	38		10:17 (2)	17:54			20:04			21:10	52		07:16 (3)	22:10	48		07:19 (3)
3	09:06			08:23			09:40 (2)	07:14			06:48			05:29			05:58 (1)	04:31			06:31 (3)
	15:48			16:51	37		10:17 (2)	17:57			20:06			21:12	57		07:16 (3)	22:12	48		07:19 (3)
4	09:05			08:21			09:40 (2)	07:12			06:46			05:27			05:56 (1)	04:30			06:31 (3)
	15:50			16:53	38		10:18 (2)	17:59			20:08			21:14	61		07:17 (3)	22:13	47		07:18 (3)
5	09:05			08:19			09:40 (2)	07:09			06:43			05:24			05:54 (1)	04:29			06:32 (3)
	15:51			16:56	38		10:18 (2)	18:01			20:10			21:16	66		07:18 (3)	22:15	46		07:18 (3)
6	09:04			08:17			09:40 (2)	07:06			06:40			05:22			05:53 (1)	04:28			06:32 (3)
	15:53			16:58	38		10:18 (2)	18:04			20:12			21:19	67		07:18 (3)	22:16	46		07:18 (3)
7	09:04			08:14			09:40 (2)	07:04			06:37			05:20			05:53 (1)	04:27			06:33 (3)
	15:54			17:00	37		10:17 (2)	18:06			20:15			21:21	69		07:19 (3)	22:17	45		07:18 (3)
8	09:03			08:12			09:41 (2)	07:01			06:35			05:17			05:53 (1)	04:26			06:33 (3)
	15:56			17:03	36		10:17 (2)	18:08			20:17			21:23	69		07:19 (3)	22:18	45		07:18 (3)
9	09:02			08:10			09:41 (2)	06:58			06:32			05:15			05:53 (1)	04:25			06:33 (3)
	15:58			17:05	36		10:17 (2)	18:10			20:19			21:25	70		07:20 (3)	22:19	44		07:17 (3)
10	09:01			08:08			09:42 (2)	06:55			06:29			05:13			05:54 (1)	04:24			06:34 (3)
	15:59			17:08	35		10:17 (2)	18:13			20:21			21:27	69		07:20 (3)	22:20	44		07:18 (3)
11	09:00			08:05			09:42 (2)	06:53			06:26			05:11			05:54 (1)	04:24			06:34 (3)
	16:01			17:10	33		10:15 (2)	18:15			20:23			21:29	68		07:20 (3)	22:21	43		07:17 (3)
12	08:59			08:03			09:44 (2)	06:50			06:24			05:08			05:55 (1)	04:23			06:35 (3)
	16:03			17:12	31		10:15 (2)	18:17			20:26			21:31	67		07:20 (3)	22:22	42		07:17 (3)
13	08:58			08:00			09:44 (2)	06:47			06:21			05:06			05:56 (1)	04:23			06:35 (3)
	16:05			17:15	30		10:14 (2)	18:19			20:28			21:34	65		07:20 (3)	22:23	43		07:18 (3)
14	08:57			07:58			09:45 (2)	06:44		07:18 (5)	06:18			05:04			05:57 (1)	04:22			06:35 (3)
	16:07			17:17	27		10:12 (2)	18:22	13	07:31 (5)	20:30			21:36	63		07:20 (3)	22:24	42		07:17 (3)
15	08:56			07:56			09:47 (2)	06:41		07:15 (5)	06:15			05:02			06:00 (1)	04:22			06:36 (3)
	16:09			17:19	24		10:11 (2)	18:24	18	07:33 (5)	20:32			21:38	58		07:20 (3)	22:25	41		07:17 (3)
16	08:55			07:53			09:49 (2)	06:39		07:13 (5)	06:13			05:00			06:26 (3)	04:22			06:36 (3)
	16:11			17:22	19		10:08 (2)	18:26	21	07:34 (5)	20:34			21:40	54		07:20 (3)	22:25	41		07:17 (3)
17	08:53		09:53 (2)	07:51			09:53 (2)	06:36		07:11 (5)	06:10		06:44 (4)	04:58			06:26 (3)	04:21			06:37 (3)
	16:13	2	09:55 (2)	17:24			10:05 (2)	18:28	24	07:35 (5)	20:37	12	06:56 (4)	21:42	54		07:20 (3)	22:26	41		07:18 (3)
18	08:52		09:49 (2)	07:48				06:33		07:10 (5)	06:07		06:41 (4)	04:56			06:27 (3)	04:21			06:37 (3)
	16:15	12	10:01 (2)	17:26				18:30	26	07:36 (5)	20:39	17	06:58 (4)	21:44	54		07:21 (3)	22:26	41		07:18 (3)
19	08:50		09:47 (2)	07:46				06:30		07:08 (5)	06:05		06:39 (4)	04:54			06:26 (3)	04:21			06:37 (3)
	16:17	16	10:03 (2)	17:29				18:33	28	07:36 (5)	20:41	21	07:00 (4)	21:46	54		07:20 (3)	22:27	41		07:18 (3)
20	08:49		09:46 (2)	07:43				06:28		07:08 (5)	06:02		06:37 (4)	04:52			06:26 (3)	04:21			06:37 (3)
	16:19	19	10:05 (2)	17:31				18:35	29	07:37 (5)	20:43	24	07:01 (4)	21:48	54		07:20 (3)	22:27	41		07:18 (3)
21	08:47		09:44 (2)	07:41				06:25		07:07 (5)	05:59		06:37 (4)	04:50			06:27 (3)	04:21			06:37 (3)
	16:21	23	10:07 (2)	17:34				18:37	30	07:37 (5)	20:45	25	07:02 (4)	21:50	53		07:20 (3)	22:28	41		07:18 (3)
22	08:46		09:43 (2)	07:38				06:22		07:07 (5)	05:57		06:35 (4)	04:48			06:27 (3)	04:21			06:37 (3)
	16:23	25	10:08 (2)	17:36				18:39	29	07:36 (5)	20:48	27	07:02 (4)	21:52	53		07:20 (3)	22:28	41		07:18 (3)
23	08:44		09:42 (2)	07:35				06:19		07:06 (5)	05:54		06:35 (4)	04:47			06:27 (3)	04:22			06:38 (3)
	16:26	27	10:09 (2)	17:38				18:42	30	07:36 (5)	20:50	28	07:03 (4)	21:53	53		07:20 (3)	22:28	41		07:19 (3)
24	08:42		09:42 (2)	07:33				06:16		07:06 (5)	05:52		06:34 (4)	04:45			06:27 (3)	04:22			06:38 (3)
	16:28	29	10:11 (2)	17:41				18:44	29	07:35 (5)	20:52	29	07:03 (4)	21:55	53		07:20 (3)	22:28	41		07:19 (3)
25	08:41		09:41 (2)	07:30				06:14		07:06 (5)	05:49		06:33 (4)	04:43			06:28 (3)	04:22			06:39 (3)
	16:30	31	10:12 (2)	17:43				18:46	28	07:34 (5)	20:54	30	07:03 (4)	21:57	52		07:20 (3)	22:28	41		07:20 (3)
26	08:39		09:41 (2)	07:28				06:11		07:07 (5)	05:46		06:34 (4)	04:42			06:28 (3)	04:23			06:38 (3)
	16:32	32	10:13 (2)	17:45				18:48	27	07:34 (5)	20:57	33	07:07 (3)	21:59	52		07:20 (3)	22:28	42		07:20 (3)
27	08:37		09:41 (2)	07:25				06:08		07:07 (5)	05:44		06:33 (4)	04:40			06:28 (3)	04:23			06:39 (3)
	16:35	33	10:14 (2)	17:47				18:50	26	07:33 (5)	20:59	36	07:09 (3)	22:01	51		07:19 (3)	22:28	41		07:20 (3)
28	08:35		09:41 (2)	07:22				06:05		07:08 (5)	05:41		06:33 (4)	04:39			06:28 (3)	04:24			06:38 (3)
	16:37	34	10:15 (2)	17:50				18:53	23	07:31 (5)	21:01	38	07:11 (3)	22:02	51		07:19 (3)	22:27	42		07:20 (3)
29	08:33		09:39 (2)					07:02		08:08 (5)	05:39		06:33 (4)	04:37			06:29 (3)	04:25			06:39 (3)
	16:39	36	10:15 (2)					19:55	21	08:29 (5)	21:03	40	07:13 (3)	22:04	50		07:19 (3)	22:27	42		07:21 (3)
30	08:31		09:39 (2)					07:00		08:11 (5)	05:36		06:05 (1)	04:36			06:30 (3)	04:25			06:39 (3)
	16:42	37	10:16 (2)					19:57	17	08:28 (5)	21:05	43	07:13 (3)	22:06	49		07:19 (3)	22:27	43		07:22 (3)
31	08:29		09:40 (2)					06:57		08:13 (5)				04:34			06:30 (3)				
	16:44	36	10:16 (2)					19:59	11	08:24 (5)				22:07	49		07:19 (3)				
Potential sun hours	227			262				365			429			515				539			
Total, worst case	392			546				430			403			1786				1293			
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.	0,58			0,58				0,97			0,98			0,97				0,97			
Total reduction	0,07			0,12				0,33			0,42			0,52				0,48			
Total, real	28			66				143			169			933				622			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AJ - 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
0 1 Sum
4 076 4 076 8 152

July		August		September		October		November		December	
1	04:26	06:38 (3)	05:15	06:05 (1)	06:21	07:25	07:34	09:11 (2)	08:39		
	22:26	07:21 (3)	21:41	07:31 (3)	20:24	19:00	16:38	09:46 (2)	15:44		
2	04:27	06:38 (3)	05:17	06:04 (1)	06:23	07:27	07:36	09:10 (2)	08:41		
	22:26	07:22 (3)	21:39	07:30 (3)	20:21	18:57	16:36	09:46 (2)	15:42		
3	04:28	06:39 (3)	05:19	06:04 (1)	06:25	07:29	07:38	09:10 (2)	08:43		
	22:25	07:22 (3)	21:37	07:30 (3)	20:18	18:54	16:34	09:47 (2)	15:41		
4	04:29	06:39 (3)	05:22	06:03 (1)	06:27	07:31	07:41	09:10 (2)	08:44		
	22:24	07:23 (3)	21:35	07:29 (3)	20:15	18:51	16:31	09:47 (2)	15:41		
5	04:30	06:39 (3)	05:24	06:02 (1)	06:30	07:33	07:43	09:10 (2)	08:46		
	22:24	07:23 (3)	21:33	07:29 (3)	20:13	18:49	16:29	09:48 (2)	15:40		
6	04:31	06:38 (3)	05:26	06:02 (1)	06:32	07:35	07:45	09:09 (2)	08:48		
	22:23	07:24 (3)	21:30	07:28 (3)	20:10	18:46	16:27	09:47 (2)	15:39		
7	04:32	06:38 (3)	05:28	06:02 (1)	06:34	07:38	07:48	09:10 (2)	08:49		
	22:22	07:24 (3)	21:28	07:27 (3)	20:07	18:43	16:25	09:48 (2)	15:38		
8	04:34	06:38 (3)	05:30	06:04 (1)	06:36	07:40	07:50	09:10 (2)	08:51		
	22:21	07:25 (3)	21:26	07:27 (3)	20:04	18:40	16:22	09:48 (2)	15:38		
9	04:35	06:38 (3)	05:32	06:06 (1)	06:38	07:42	07:52	09:10 (2)	08:52		
	22:20	07:25 (3)	21:23	07:26 (3)	20:01	18:38	16:20	09:48 (2)	15:37		
10	04:36	06:38 (3)	05:34	06:08 (1)	06:40	07:44	07:54	09:11 (2)	08:54		
	22:19	07:26 (3)	21:21	07:25 (3)	19:59	18:35	16:18	09:48 (2)	15:37		
11	04:38	06:38 (3)	05:36	06:10 (1)	06:42	07:46	07:57	09:10 (2)	08:55		
	22:18	07:26 (3)	21:18	07:24 (3)	19:56	18:32	16:16	09:47 (2)	15:36		
12	04:39	06:38 (3)	05:38	06:12 (1)	06:44	07:49	07:59	09:11 (2)	08:56		
	22:16	07:27 (3)	21:16	07:23 (3)	19:53	18:29	16:14	09:47 (2)	15:36		
13	04:41	06:37 (3)	05:41	06:14 (1)	06:46	08:01 (5)	07:51	08:01	09:11 (2)	08:58	
	22:15	07:27 (3)	21:14	07:21 (3)	19:50	18:27	16:12	09:47 (2)	15:36		
14	04:42	06:38 (3)	05:43	06:41 (4)	06:49	07:59 (5)	07:53	08:04	09:12 (2)	08:59	
	22:14	07:28 (3)	21:11	07:20 (3)	19:47	18:24	16:10	09:47 (2)	15:35		
15	04:44	06:37 (3)	05:45	06:40 (4)	06:51	07:57 (5)	07:55	08:06	09:14 (2)	09:00	
	22:12	07:28 (3)	21:09	07:18 (3)	19:45	18:21	16:08	09:47 (2)	15:35		
16	04:45	06:38 (3)	05:47	06:40 (4)	06:53	07:56 (5)	07:57	08:08	09:14 (2)	09:01	
	22:11	07:29 (3)	21:06	07:15 (3)	19:42	18:19	16:06	09:46 (2)	15:35		
17	04:47	06:37 (3)	05:49	06:40 (4)	06:55	07:56 (5)	08:00	08:10	09:15 (2)	09:02	
	22:10	07:29 (3)	21:03	07:13 (3)	19:39	18:16	16:04	09:46 (2)	15:35		
18	04:49	06:37 (3)	05:51	06:40 (4)	06:57	07:55 (5)	08:02	08:13	09:16 (2)	09:03	
	22:08	07:29 (3)	21:01	07:10 (4)	19:36	18:13	16:02	09:45 (2)	15:35		
19	04:50	06:37 (3)	05:53	06:40 (4)	06:59	07:54 (5)	08:04	08:15	09:17 (2)	09:03	
	22:06	07:29 (3)	20:58	07:09 (4)	19:33	18:11	16:01	09:44 (2)	15:36		
20	04:52	06:37 (3)	05:56	06:40 (4)	07:01	07:53 (5)	08:06	08:17	09:18 (2)	09:04	
	22:05	07:30 (3)	20:56	07:08 (4)	19:30	18:08	15:59	09:43 (2)	15:36		
21	04:54	06:37 (3)	05:58	06:41 (4)	07:03	07:52 (5)	08:09	08:19	09:20 (2)	09:05	
	22:03	07:31 (3)	20:53	07:08 (4)	19:28	18:06	15:57	09:43 (2)	15:36		
22	04:56	06:37 (3)	06:00	06:41 (4)	07:05	07:52 (5)	08:11	08:21	09:22 (2)	09:05	
	22:01	07:30 (3)	20:50	07:07 (4)	19:25	18:03	15:56	09:41 (2)	15:37		
23	04:58	06:37 (3)	06:02	06:42 (4)	07:08	07:52 (5)	08:13	08:23	09:23 (2)	09:06	
	21:59	07:31 (3)	20:48	07:05 (4)	19:22	18:00	15:54	09:39 (2)	15:37		
24	05:00	06:37 (3)	06:04	06:43 (4)	07:10	07:52 (5)	08:15	08:25	09:26 (2)	09:06	
	21:58	07:31 (3)	20:45	07:04 (4)	19:19	17:58	15:53	09:38 (2)	15:38		
25	05:01	06:37 (3)	06:06	06:45 (4)	07:12	07:52 (5)	07:18	08:27	09:30 (2)	09:07	
	21:56	07:31 (3)	20:43	07:02 (4)	19:16	17:55	15:51	09:36 (2)	15:39		
26	05:03	06:37 (3)	06:08	06:47 (4)	07:14	07:52 (5)	07:20	08:29	09:34 (2)	09:07	
	21:54	07:31 (3)	20:40	06:59 (4)	19:14	16:53	15:50	09:39 (2)	15:39		
27	05:05	06:37 (3)	06:10		07:16	07:54 (5)	07:22	09:16 (2)	08:31	09:07	
	21:52	07:31 (3)	20:37		19:11	18:17 (5)	16:50	09:41 (2)	15:48	15:40	
28	05:07	06:37 (3)	06:13		07:18	07:55 (5)	07:25	09:15 (2)	08:33	09:07	
	21:50	07:31 (3)	20:34		19:08	18:15 (5)	16:48	09:43 (2)	15:47	15:41	
29	05:09	06:09 (1)	06:15		07:20	07:57 (5)	07:27	09:14 (2)	08:35	09:07	
	21:48	07:31 (3)	20:32		19:05	18:12 (5)	16:45	09:43 (2)	15:46	15:42	
30	05:11	06:07 (1)	06:17		07:23	08:00 (5)	07:29	09:13 (2)	08:37	09:07	
	21:46	07:31 (3)	20:29		19:02	16:43	15:45	09:45 (2)	15:43	15:43	
31	05:13	06:06 (1)	06:19			07:31	09:12 (2)		09:07	09:07	
	21:44	07:31 (3)	20:26			16:41	09:45 (2)		15:44	15:44	
Potential sun hours	538		474		386		321		241		207
Total, worst case	1583		1156		442		184		767		
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.	0,97		0,97		0,97		0,58		0,58		
Total reduction	0,51		0,49		0,39		0,17		0,08		
Total, real	810		569		172		31		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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AK - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	06:03 (2) 22:26	05:15 21:41	06:07 (2) 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	05:32 21:10	04:32 22:10	06:03 (2) 22:26	05:18 21:39	06:08 (2) 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	06:04 (2) 22:25	05:20 21:37	06:08 (2) 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	06:05 (2) 22:24	05:22 21:35	06:09 (2) 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	06:06 (2) 22:24	05:24 21:33	06:09 (2) 20:13	07:33 18:49	07:43 16:29	08:46 15:40
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 20:12	05:22 21:19	04:28 22:16	06:07 (2) 22:23	05:26 21:30	06:10 (2) 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:04 15:54	08:14 17:01	07:04 18:06	06:37 20:15	05:20 21:21	04:27 22:17	06:09 (2) 22:22	05:28 21:28	06:11 (2) 20:07	07:38 18:43	07:48 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	06:10 (2) 22:21	05:30 21:26	06:13 (2) 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	06:12 (2) 22:20	05:32 21:23	06:15 (2) 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:08 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	06:16 (2) 22:19	05:34 21:21	06:18 (2) 20:25	07:44 18:35	07:54 16:18	08:54 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21	06:16 (2) 22:18	05:36 21:18	06:25 (2) 20:21	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:09 21:31	04:23 22:22	06:17 (2) 22:16	05:39 21:16	06:26 (2) 20:16	07:49 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	06:18 (2) 22:15	05:41 21:14	06:27 (2) 20:14	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:36	04:22 22:24	06:19 (2) 22:14	05:43 21:11	06:28 (2) 20:11	07:53 18:24	08:04 16:10	08:59 15:35
15	08:56 16:09	07:56 17:19	06:42 18:24	06:16 20:32	05:02 21:38	04:22 22:25	06:20 (2) 22:12	05:45 21:09	06:29 (2) 20:09	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	06:21 (2) 22:11	05:47 21:06	06:30 (2) 20:06	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:59 21:42	04:21 22:26	06:22 (2) 22:09	05:49 21:03	06:31 (2) 20:03	07:59 18:16	08:10 16:04	09:02 15:35
18	08:52 16:15	07:49 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	06:23 (2) 22:08	05:51 21:01	06:32 (2) 20:01	07:57 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	06:24 (2) 22:06	05:53 20:58	06:33 (2) 20:58	07:59 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	06:25 (2) 22:05	05:56 20:56	06:34 (2) 20:56	07:57 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:45	04:50 21:50	04:21 22:27	06:26 (2) 22:03	05:58 20:53	06:35 (2) 20:53	07:59 18:06	08:19 15:57	09:05 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:52	04:22 22:28	06:27 (2) 22:01	06:00 20:50	06:36 (2) 20:50	07:57 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	06:28 (2) 21:59	06:02 20:48	06:37 (2) 20:48	07:58 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	06:29 (2) 21:58	06:04 20:45	06:38 (2) 20:45	07:10 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57	04:23 22:28	06:30 (2) 21:56	06:06 20:43	06:39 (2) 20:43	07:12 17:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:57	04:42 21:59	04:23 22:28	06:31 (2) 21:54	06:08 20:40	06:40 (2) 20:40	07:14 17:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:24 22:28	06:32 (2) 21:52	06:11 20:37	06:41 (2) 20:37	07:16 17:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:41 21:01	04:39 22:02	04:24 22:27	06:33 (2) 21:50	06:13 20:34	06:42 (2) 20:34	07:18 17:48	08:33 15:47	09:07 15:41
29	08:33 16:39	07:20 19:55	06:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	06:34 (2) 21:48	06:15 20:32	06:43 (2) 20:32	07:20 17:46	08:35 15:46	09:07 15:42
30	08:31 16:42	07:18 19:57	06:00 19:57	05:37 21:05	04:36 22:06	04:26 22:27	06:35 (2) 21:46	06:17 20:29	06:44 (2) 20:29	07:23 17:43	08:37 15:45	09:07 15:43
31	08:29 16:44	07:15 19:59	06:07 19:59	05:37 21:07	04:35 22:07	04:27 22:27	06:36 (2) 21:44	06:19 20:26	06:45 (2) 20:26	07:31 17:41	08:39 15:44	09:07 15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case					781	126	691	220				
Sun reduction					0,58	0,53	0,57	0,55				
Oper. time red.					0,93	0,93	0,93	0,93				
Wind dir. red.					0,93	0,93	0,93	0,93				
Total reduction					0,50	0,46	0,49	0,47				
Total, real					391	58	338	104				

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AL - Kudlei šī
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	07:32 (2) 21:08	04:33 22:09
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	07:32 (2) 21:10	04:32 22:10
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	07:32 (2) 21:12	04:31 22:12
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	07:32 (2) 21:14	04:30 22:13
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	07:33 (2) 21:16	04:29 22:15
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 20:12	07:33 (2) 21:19	04:28 22:16
7	09:04 15:54	08:14 17:01	07:04 18:06	06:37 20:15	07:35 (2) 21:21	04:27 22:17
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	07:37 (2) 21:23	04:26 22:18
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19
10	09:01 16:00	08:08 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:09 21:31	04:23 22:22
13	08:58 16:05	08:01 17:15	06:47 18:19	06:21 20:28	05:06 21:34	04:23 22:23
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:36	04:22 22:24
15	08:56 16:09	07:56 17:20	06:42 18:24	06:16 20:32	05:02 21:38	04:22 22:25
16	08:55 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:21 22:26
18	08:52 16:15	07:48 17:27	06:33 18:31	06:07 20:39	04:56 21:44	04:21 22:26
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:46	04:50 21:50	04:21 22:28
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:52	04:22 22:28
23	08:44 16:26	07:36 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57	04:22 22:28
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:57	04:42 21:59	04:23 22:28
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28
28	08:35 16:37	07:22 17:50	06:05 18:53	05:42 21:01	04:39 22:02	04:24 22:27
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27
30	08:31 16:42		07:00 19:57	05:37 21:05	04:36 22:06	04:26 22:27
31	08:29 16:44		06:57 19:59	07:33 (2) 07:56 (2)	04:35 22:07	05:38 (3) 05:52 (3)
Potential sun hours	227	262	365	429	515	539
Total, worst case			131	154	369	36
Sun reduction			0,37	0,46	0,58	0,53
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			1,00	1,00	0,88	0,88
Total reduction			0,34	0,43	0,48	0,44
Total, real			45	66	176	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: AL - Kudlei šī
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	July			August			September			October		November		December	
1	04:26		05:15	05:51 (3)	06:21		07:25	07:34	08:39						
	22:26		21:42	9 06:00 (3)	20:24		19:00	16:38	15:44						
2	04:27		05:18	05:53 (3)	06:23		07:27	07:36	08:41						
	22:26		21:39	6 05:59 (3)	20:21		18:57	16:36	15:43						
3	04:28		05:20		06:25		07:29	07:38	08:43						
	22:25		21:37		20:18		18:54	16:34	15:42						
4	04:29		05:22		06:28	07:34 (2)	07:31	07:41	08:44						
	22:24		21:35		20:15	9 07:43 (2)	18:51	16:31	15:41						
5	04:30		05:24		06:30	07:31 (2)	07:33	07:43	08:46						
	22:24		21:33		20:13	15 07:46 (2)	18:49	16:29	15:40						
6	04:31		05:26		06:32	07:29 (2)	07:36	07:45	08:48						
	22:23		21:30		20:10	18 07:47 (2)	18:46	16:27	15:39						
7	04:33		05:28		06:34	07:28 (2)	07:38	07:48	08:49						
	22:22		21:28		20:07	20 07:48 (2)	18:43	16:25	15:38						
8	04:34	05:51 (3)	05:30		06:36	07:27 (2)	07:40	07:50	08:51						
	22:21	2 05:53 (3)	21:26		20:04	21 07:48 (2)	18:40	16:22	15:38						
9	04:35	05:49 (3)	05:32		06:38	07:26 (2)	07:42	07:52	08:52						
	22:20	6 05:55 (3)	21:23		20:01	22 07:48 (2)	18:38	16:20	15:37						
10	04:36	05:48 (3)	05:34		06:40	07:25 (2)	07:44	07:55	08:54						
	22:19	10 05:58 (3)	21:21		19:59	23 07:48 (2)	18:35	16:18	15:37						
11	04:38	05:47 (3)	05:36		06:42	07:24 (2)	07:46	07:57	08:55						
	22:18	12 05:59 (3)	21:18		19:56	24 07:48 (2)	18:32	16:16	15:36						
12	04:39	05:46 (3)	05:39		06:44	07:24 (2)	07:49	07:59	08:56						
	22:17	13 05:59 (3)	21:16		19:53	24 07:48 (2)	18:29	16:14	15:36						
13	04:41	05:46 (3)	05:41		06:47	07:24 (2)	07:51	08:01	08:58						
	22:15	15 06:01 (3)	21:14		19:50	23 07:47 (2)	18:27	16:12	15:36						
14	04:42	05:46 (3)	05:43		06:49	07:24 (2)	07:53	08:04	08:59						
	22:14	15 06:01 (3)	21:11		19:47	22 07:46 (2)	18:24	16:10	15:35						
15	04:44	05:45 (3)	05:45		06:51	07:24 (2)	07:55	08:06	09:00						
	22:13	16 06:01 (3)	21:09		19:45	21 07:45 (2)	18:21	16:08	15:35						
16	04:45	05:45 (3)	05:47		06:53	07:26 (2)	07:57	08:08	09:01						
	22:11	18 06:03 (3)	21:06		19:42	18 07:44 (2)	18:19	16:06	15:35						
17	04:47	05:44 (3)	05:49		06:55	07:27 (2)	08:00	08:10	09:02						
	22:10	19 06:03 (3)	21:04		19:39	16 07:43 (2)	18:16	16:04	15:35						
18	04:49	05:44 (3)	05:51		06:57	07:29 (2)	08:02	08:13	09:03						
	22:08	20 06:04 (3)	21:01		19:36	11 07:40 (2)	18:13	16:03	15:36						
19	04:51	05:44 (3)	05:53		06:59		08:04	08:15	09:03						
	22:06	19 06:03 (3)	20:58		19:33		18:11	16:01	15:36						
20	04:52	05:44 (3)	05:56		07:01		08:06	08:17	09:04						
	22:05	20 06:04 (3)	20:56		19:31		18:08	15:59	15:36						
21	04:54	05:44 (3)	05:58		07:03		08:09	08:19	09:05						
	22:03	21 06:05 (3)	20:53		19:28		18:06	15:57	15:36						
22	04:56	05:43 (3)	06:00		07:06		08:11	08:21	09:05						
	22:01	21 06:04 (3)	20:51		19:25		18:03	15:56	15:37						
23	04:58	05:44 (3)	06:02		07:08		08:13	08:23	09:06						
	21:59	21 06:05 (3)	20:48		19:22		18:00	15:54	15:37						
24	05:00	05:44 (3)	06:04		07:10		08:15	08:25	09:06						
	21:58	21 06:05 (3)	20:45		19:19		17:58	15:53	15:38						
25	05:02	05:44 (3)	06:06		07:12		07:18	08:27	09:07						
	21:56	20 06:04 (3)	20:43		19:16		16:55	15:51	15:39						
26	05:04	05:44 (3)	06:08		07:14		07:20	08:30	09:07						
	21:54	20 06:04 (3)	20:40		19:14		16:53	15:50	15:39						
27	05:05	05:45 (3)	06:11		07:16		07:22	08:32	09:07						
	21:52	19 06:04 (3)	20:37		19:11		16:50	15:48	15:40						
28	05:07	05:45 (3)	06:13		07:18		07:25	08:33	09:07						
	21:50	19 06:04 (3)	20:35		19:08		16:48	15:47	15:41						
29	05:09	05:45 (3)	06:15		07:20		07:27	08:35	09:07						
	21:48	18 06:03 (3)	20:32		19:05		16:46	15:46	15:42						
30	05:11	05:47 (3)	06:17		07:23		07:29	08:37	09:07						
	21:46	15 06:02 (3)	20:29		19:02		16:43	15:45	15:43						
31	05:13	05:49 (3)	06:19				07:32		09:07						
	21:44	13 06:02 (3)	20:26				16:41		15:44						
Potential sun hours	538		474		386		321	241	207						
Total, worst case	393		15		287										
Sun reduction	0,57		0,55		0,43										
Oper. time red.	0,93		0,93		0,93										
Wind dir. red.	0,88		0,88		1,00										
Total reduction	0,46		0,45		0,40										
Total, real	183		7		114										

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AM - 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

0	1	Sum
4 076	4 076	8 152

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

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

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

SHADOW - Calendar

Shadow receptor: AN - 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

0	1	Sum
4 076	4 076	8 152

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

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

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

SHADOW - Calendar

Shadow receptor: AO - Kizumi
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	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		05:09 (8)	04:26		05:06 (8)	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	2	05:11 (8)	22:26	17	05:23 (8)	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32		05:08 (8)	04:27		05:07 (8)	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	4	05:12 (8)	22:25	16	05:23 (8)	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31		05:08 (8)	04:28		05:08 (8)	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:05	21:12	22:11	6	05:14 (8)	22:25	15	05:23 (8)	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30		05:07 (8)	04:29		05:09 (8)	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	8	05:15 (8)	22:24	14	05:23 (8)	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29		05:06 (8)	04:30		05:10 (8)	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	10	05:16 (8)	22:23	13	05:23 (8)	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28		05:05 (8)	04:31		05:11 (8)	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:16	11	05:16 (8)	22:22	12	05:23 (8)	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27		05:04 (8)	04:32		05:12 (8)	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	12	05:16 (8)	22:22	10	05:22 (8)	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26		05:04 (8)	04:34		05:13 (8)	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	14	05:18 (8)	22:21	9	05:22 (8)	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25		05:03 (8)	04:35		05:14 (8)	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	15	05:18 (8)	22:20	7	05:21 (8)	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24		05:03 (8)	04:36		05:16 (8)	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	16	05:19 (8)	22:19	5	05:21 (8)	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24		05:02 (8)	04:38		05:17 (8)	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	17	05:19 (8)	22:17	3	05:20 (8)	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23		05:02 (8)	04:39		05:38	06:44	07:48	07:59	08:56	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	18	05:20 (8)	22:16		21:16	19:53	18:29	16:14	15:36	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23		05:02 (8)	04:41		05:40	06:46	07:51	08:01	08:57	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	18	05:20 (8)	22:15		21:13	19:50	18:27	16:12	15:35	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22		05:01 (8)	04:42		05:43	06:48	07:53	08:03	08:58	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	19	05:20 (8)	22:14		21:11	19:47	18:24	16:10	15:35	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22		05:01 (8)	04:44		05:45	06:51	07:55	08:06	08:59	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	19	05:20 (8)	22:12		21:08	19:44	18:21	16:08	15:35	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21		05:01 (8)	04:45		05:47	06:53	07:57	08:08	09:00	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	20	05:21 (8)	22:11		21:06	19:42	18:18	16:06	15:35	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21		05:01 (8)	04:47		05:49	06:55	07:59	08:10	09:01	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	20	05:21 (8)	22:09		21:03	19:39	18:16	16:04	15:35	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21		05:01 (8)	04:49		05:51	06:57	08:02	08:12	09:02	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	21	05:22 (8)	22:08		21:01	19:36	18:13	16:02	15:35	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21		05:01 (8)	04:50		05:53	06:59	08:04	08:14	09:03	09:03
	16:17	17:29	18:32	20:41	21:45	22:27	21	05:22 (8)	22:06		20:58	19:33	18:11	16:01	15:36	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21		05:01 (8)	04:52		05:55	07:01	08:06	08:17	09:04	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	21	05:22 (8)	22:04		20:55	19:30	18:08	15:59	15:36	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21		05:01 (8)	04:54		05:58	07:03	08:08	08:19	09:04	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	21	05:22 (8)	22:03		20:53	19:27	18:05	15:57	15:36	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21		05:01 (8)	04:56		06:00	07:05	08:11	08:21	09:05	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	21	05:22 (8)	22:01		20:50	19:25	18:03	15:56	15:37	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22		05:02 (8)	04:58		06:02	07:07	08:13	08:23	09:05	09:05
	16:26	17:38	18:41	20:50	21:53	22:28	21	05:23 (8)	21:59		20:48	19:22	18:00	15:54	15:37	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22		05:02 (8)	04:59		06:04	07:10	08:15	08:25	09:06	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21	05:23 (8)	21:57		20:45	19:19	17:58	15:53	15:38	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22		05:03 (8)	05:01		06:06	07:12	07:17	08:27	09:06	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	20	05:23 (8)	21:55		20:42	19:16	16:55	15:51	15:38	15:38
26	08:39	07:27	06:11	05:46	04:42	04:23		05:03 (8)	05:03		06:08	07:14	07:20	08:29	09:06	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	20	05:23 (8)	21:54		20:40	19:13	16:53	15:50	15:39	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23		05:04 (8)	05:05		06:10	07:16	07:22	08:31	09:07	09:07
	16:35	17:47	18:50	20:58	22:00	22:27	20	05:24 (8)	21:52		20:37	19:11	16:50	15:48	15:40	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24		05:04 (8)	05:07		06:12	07:18	07:24	08:33	09:07	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	19	05:23 (8)	21:50		20:34	19:08	16:48	15:47	15:41	15:41
29	08:33		07:02	05:39	04:37	04:25		05:05 (8)	05:09		06:15	07:20	07:27	08:35	09:07	09:07
	16:39		19:54	21:03	22:04	22:27	19	05:24 (8)	21:48		20:32	19:05	16:45	15:46	15:42	15:42
30	08:31		06:59	05:36	04:36	04:25		05:05 (8)	05:11		06:17	07:22	07:29	08:37	09:07	09:07
	16:41		19:57	21:05	22:05	22:26	18	05:23 (8)	21:45		20:29	19:02	16:43	15:45	15:43	15:43
31	08:29		06:57		04:34			05:13			06:19		07:31		09:07	09:07
	16:44		19:59		22:07			21:43			20:26		16:40		15:44	15:44
Potential sun hours	227	262	365	429	515	539		538		474	386	321	241	207		
Total, worst case							492		121							
Sun reduction							0,53		0,57							
Oper. time red.							0,93		0,93							
Wind dir. red.							0,78		0,78							
Total reduction							0,39		0,41							
Total, real							190		50							

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

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes 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: AP - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June
1 09:07		09:50 (2) 08:27	07:20	08:06 (3) 06:54	05:34	04:33
15:46	13	10:03 (2) 16:46	17:52	29 08:35 (3) 20:01	21:08	22:09
2 09:06		09:49 (2) 08:25	07:17	08:05 (3) 06:51	05:31	04:32
15:47	15	10:04 (2) 16:49	17:54	30 08:35 (3) 20:04	21:10	22:10
3 09:06		09:48 (2) 08:23	07:14	08:05 (3) 06:48	05:29	04:31
15:48	16	10:04 (2) 16:51	17:57	30 08:35 (3) 20:06	21:12	22:12
4 09:06		09:48 (2) 08:21	07:12	08:06 (3) 06:46	05:27	04:30
15:50	17	10:05 (2) 16:53	17:59	29 08:35 (3) 20:08	21:14	22:13
5 09:05		09:49 (2) 08:19	07:09	08:06 (3) 06:43	05:24	04:29
15:51	18	10:07 (2) 16:56	18:01	28 08:34 (3) 20:10	21:16	22:15
6 09:04		09:49 (2) 08:17	07:06	07:34 (4) 06:40	05:22	04:28
15:53	18	10:07 (2) 16:58	18:04	31 08:33 (3) 20:12	21:19	22:16
7 09:04		09:49 (2) 08:14	07:04	07:30 (4) 06:37	05:20	04:27
15:54	19	10:08 (2) 17:00	18:06	37 08:32 (3) 20:15	21:21	22:17
8 09:03		09:49 (2) 08:12	07:01	07:27 (4) 06:35	05:17	04:26
15:56	20	10:09 (2) 17:03	18:08	40 08:31 (3) 20:17	21:23	22:18
9 09:02		09:48 (2) 08:10	06:58	07:26 (4) 06:32	05:15	04:25
15:58	21	10:09 (2) 17:05	18:10	40 08:30 (3) 20:19	21:25	22:19
10 09:01		09:49 (2) 08:08	06:55	07:25 (4) 06:29	05:13	04:24
15:59	20	10:09 (2) 17:08	18:13	37 08:27 (3) 20:21	21:27	22:21
11 09:00		09:49 (2) 08:05	06:53	07:24 (4) 06:26	05:11	04:24
16:01	21	10:10 (2) 17:10	18:15	33 08:24 (3) 20:23	21:29	22:22
12 08:59		09:49 (2) 08:03	06:50	07:23 (4) 06:24	05:08	04:23
16:03	21	10:10 (2) 17:12	18:17	22 07:45 (4) 20:26	21:31	22:22
13 08:58		09:50 (2) 08:01	06:47	07:23 (4) 06:21	05:06	04:23
16:05	21	10:11 (2) 17:15	18:19	21 07:44 (4) 20:28	21:34	22:23
14 08:57		09:50 (2) 07:58	06:44	07:24 (4) 06:18	05:04	04:22
16:07	21	10:11 (2) 17:17	18:22	21 07:45 (4) 20:30	21:36	22:24
15 08:56		09:51 (2) 07:56	06:42	07:24 (4) 06:15	05:02	04:22
16:09	21	10:12 (2) 17:19	18:24	20 07:44 (4) 20:32	21:38	22:25
16 08:55		09:51 (2) 07:53	06:39	07:24 (4) 06:13	05:00	04:21
16:11	21	10:12 (2) 17:22	18:26	19 07:43 (4) 20:34	21:40	22:25
17 08:53		09:52 (2) 07:51	06:36	07:24 (4) 06:10	04:58	04:21
16:13	21	10:13 (2) 17:24	18:28	17 07:41 (4) 20:37	21:42	22:26
18 08:52		09:52 (2) 07:48	06:33	07:25 (4) 06:07	04:56	04:21
16:15	21	10:13 (2) 17:27	18:30	14 07:39 (4) 20:39	21:44	22:27
19 08:50		09:53 (2) 07:46	06:30	07:28 (4) 06:05	04:54	04:21
16:17	19	10:12 (2) 17:29	18:33	8 07:36 (4) 20:41	21:46	22:27
20 08:49		09:53 (2) 07:43	06:28	06:02 04:52	04:21	
16:19	19	10:12 (2) 17:31	18:35	20:43 21:48	22:27	
21 08:47		09:54 (2) 07:41	08:17 (3) 06:25	05:59 04:50	04:21	
16:21	18	10:12 (2) 17:34	9 08:26 (3) 18:37	20:46 21:50	22:28	
22 08:46		09:55 (2) 07:38	08:14 (3) 06:22	05:57 04:48	04:21	
16:23	16	10:11 (2) 17:36	15 08:29 (3) 18:39	20:48 21:52	22:28	
23 08:44		09:56 (2) 07:36	08:12 (3) 06:19	05:54 04:47	04:22	
16:26	15	10:11 (2) 17:38	20 08:32 (3) 18:42	20:50 21:54	22:28	
24 08:42		09:58 (2) 07:33	08:10 (3) 06:16	05:52 04:45	04:22	
16:28	12	10:10 (2) 17:41	23 08:33 (3) 18:44	20:52 21:55	22:28	
25 08:41		10:00 (2) 07:30	08:09 (3) 06:14	05:49 04:43	04:22	
16:30	8	10:08 (2) 17:43	24 08:33 (3) 18:46	20:54 21:57	22:28	
26 08:39		07:28	08:07 (3) 06:11	05:46 04:42	04:23	
16:32		17:45	27 08:34 (3) 18:48	20:57 21:59	22:28	
27 08:37		07:25	08:07 (3) 06:08	05:44 04:40	04:23	
16:35		17:48	28 08:35 (3) 18:50	20:59 22:01	22:28	
28 08:35		07:22	08:07 (3) 06:05	05:41 04:39	04:24	
16:37		17:50	28 08:35 (3) 18:53	21:01 22:02	22:28	
29 08:33			07:02	05:39 04:37	04:25	
16:39			19:55	21:03 22:04	22:27	
30 08:31			07:00	05:36 04:36	04:25	
16:42			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	452	174	506			
Sun reduction	0,13	0,22	0,37			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,54	0,88	0,91			
Total reduction	0,07	0,18	0,31			
Total, real	29	31	158			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AP - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25	08:02 (4)	07:34
	22:26	21:42	20:24	19:00	22 08:24 (4)	16:38
2	04:27	05:17	06:23	07:27	08:02 (4)	07:36
	22:26	21:39	20:21	18:57	30 09:01 (3)	16:36
3	04:28	05:19	06:25	07:29	08:03 (4)	07:38
	22:25	21:37	20:18	18:54	35 09:04 (3)	16:34
4	04:29	05:22	06:28	07:31	08:03 (4)	07:41
	22:25	21:35	20:15	18:51	39 09:06 (3)	16:31
5	04:30	05:24	06:30	07:33	08:04 (4)	07:43
	22:24	21:33	20:13	18:49	39 09:07 (3)	16:29
6	04:31	05:26	06:32	07:35	08:05 (4)	07:45
	22:23	21:30	20:10	18:46	38 09:08 (3)	16:27
7	04:32	05:28	06:34	07:38	08:08 (4)	07:48
	22:22	21:28	20:07	18:43	35 09:09 (3)	16:25
8	04:34	05:30	06:36	07:40	08:41 (3)	07:50
	22:21	21:26	20:04	18:40	28 09:09 (3)	16:22
9	04:35	05:32	06:38	07:42	08:40 (3)	07:52
	22:20	21:23	20:01	18:38	29 09:09 (3)	16:20
10	04:36	05:34	06:40	07:44	08:39 (3)	07:55
	22:19	21:21	19:59	18:35	30 09:09 (3)	16:18
11	04:38	05:36	06:42	07:46	08:40 (3)	07:57
	22:18	21:19	19:56	18:32	29 09:09 (3)	16:16
12	04:39	05:38	06:44	07:49	08:39 (3)	07:59
	22:17	21:16	19:53	18:29	30 09:09 (3)	16:14
13	04:41	05:41	06:47	07:51	08:39 (3)	08:01
	22:15	21:14	19:50	18:27	29 09:08 (3)	16:12
14	04:42	05:43	06:49	07:53	08:40 (3)	08:04
	22:14	21:11	19:47	18:24	28 09:08 (3)	16:10
15	04:44	05:45	06:51	07:55	08:40 (3)	08:06
	22:13	21:09	19:45	18:21	27 09:07 (3)	16:08
16	04:45	05:47	06:53	07:57	08:40 (3)	08:08
	22:11	21:06	19:42	18:19	26 09:06 (3)	16:06
17	04:47	05:49	06:55	08:00	08:41 (3)	08:10
	22:10	21:04	19:39	18:16	24 09:05 (3)	16:04
18	04:49	05:51	06:57	08:02	08:42 (3)	08:13
	22:08	21:01	19:36	18:13	21 09:03 (3)	16:02
19	04:50	05:53	06:59	08:04	08:43 (3)	08:15
	22:06	20:58	19:33	18:11	18 09:01 (3)	16:01
20	04:52	05:56	07:01	08:06	08:46 (3)	08:17
	22:05	20:56	19:31	18:08	13 08:59 (3)	15:59
21	04:54	05:58	07:03	08:09	08:50 (3)	08:19
	22:03	20:53	19:28	18:06	4 08:54 (3)	15:57
22	04:56	06:00	07:06	08:11		08:21
	22:01	20:51	19:25	18:03		15:56
23	04:58	06:02	07:08	08:13		08:23
	22:00	20:48	19:22	18:00		15:54
24	05:00	06:04	07:10	08:15		08:25
	21:58	20:45	19:19	5 08:18 (4)		15:53
25	05:01	06:06	07:12	08:09 (4)		08:28
	21:56	20:43	19:16	12 08:21 (4)		15:51
26	05:03	06:08	07:14	08:07 (4)		08:30
	21:54	20:40	19:14	16 08:23 (4)		15:50
27	05:05	06:10	07:16	08:06 (4)		08:32
	21:52	20:37	19:11	18 08:24 (4)		15:48
28	05:07	06:13	07:18	08:05 (4)		08:34
	21:50	20:35	19:08	20 08:25 (4)		15:47
29	05:09	06:15	07:20	08:04 (4)		08:35
	21:48	20:32	19:05	21 08:25 (4)		15:46
30	05:11	06:17	07:23	08:03 (4)		08:37
	21:46	20:29	19:02	21 08:24 (4)		15:45
31	05:13	06:19		07:32		
	21:44	20:26		16:41		15:44
Potential sun hours	538	474	386	321	241	207
Total, worst case			113	574	254	362
Sun reduction			0,43	0,31	0,15	0,13
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			0,96	0,90	0,54	0,54
Total reduction			0,38	0,25	0,08	0,06
Total, real			43	146	20	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: AQ - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:46	08:27 16:46	07:20 17:52	08:13 (3) 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:15 21:42	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	08:13 (3) 19	05:32 21:10	04:32 22:10	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:57	08:15 (3) 16	06:48 20:06	05:29 21:12	04:31 22:12	05:19 22:25	06:25 21:37	07:29 20:18	07:38 16:34	08:43 15:41
4	09:06 15:50	08:21 16:53	07:12 17:59	08:17 (3) 11	06:46 20:08	05:27 21:14	04:30 22:13	05:22 22:25	06:28 21:35	07:31 20:15	07:41 16:31	08:45 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	08:28 (3)	06:43 20:10	05:24 21:16	04:29 22:15	05:24 22:24	06:30 21:33	07:33 20:13	07:43 16:29	08:46 15:40
6	09:04 15:53	08:17 16:58	07:06 18:04		06:40 20:12	05:22 21:19	04:28 22:16	05:26 22:23	06:32 21:30	07:36 20:10	07:45 16:27	08:48 15:39
7	09:04 15:54	08:14 17:00	07:04 18:06		06:37 20:15	05:20 21:21	04:27 22:17	05:28 22:22	06:34 21:28	07:38 20:07	07:48 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08		06:35 20:17	05:17 21:23	04:26 22:18	05:30 22:21	06:36 21:26	07:40 20:04	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10		06:32 20:19	05:15 21:25	04:25 22:20	05:32 21:23	06:38 20:01	07:42 18:38	08:54 (3) 16:20	08:52 15:37
10	09:01 15:59	08:08 17:08	06:55 18:13		06:29 20:21	05:13 21:27	04:24 22:21	05:34 21:21	06:40 19:59	07:44 18:35	08:50 (3) 16:18	08:54 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15		06:26 20:23	05:11 21:29	04:24 22:22	05:36 21:19	06:42 19:56	07:46 18:32	08:49 (3) 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17		06:24 20:26	05:08 21:32	04:23 22:23	05:38 21:16	06:44 19:53	07:49 18:29	08:47 (3) 16:14	08:56 15:36
13	08:58 16:05	08:01 17:15	06:47 18:19		06:21 20:28	05:06 21:34	04:23 22:23	05:41 21:14	06:47 19:50	07:51 18:27	08:45 (3) 16:12	08:58 15:35
14	08:57 16:07	07:58 17:17	06:44 18:22		06:18 20:30	05:04 21:36	04:22 22:24	05:43 21:11	06:49 19:47	07:53 18:24	08:45 (3) 16:10	08:59 15:35
15	08:56 16:09	07:56 17:19	06:42 18:24		06:15 20:32	05:02 21:38	04:22 22:25	05:45 21:09	06:51 19:45	07:55 18:21	08:44 (3) 16:08	09:00 15:35
16	08:55 16:11	07:53 17:22	06:39 18:26		06:13 20:34	05:00 21:40	04:21 22:26	05:47 21:06	06:53 19:42	07:57 18:19	08:43 (3) 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28		06:10 20:37	04:58 21:42	04:21 22:26	05:49 21:04	06:55 19:39	08:00 18:16	08:44 (3) 16:04	09:02 15:35
18	08:52 16:15	07:48 17:27	06:33 18:31		06:07 20:39	04:56 21:44	04:21 22:27	05:51 21:01	06:57 19:36	08:02 18:13	08:43 (3) 16:02	09:03 15:35
19	08:50 16:17	07:46 17:29	06:30 18:33		06:05 20:41	04:54 21:46	04:21 22:27	05:53 22:07	06:59 19:33	08:04 18:11	08:44 (3) 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35		06:02 20:43	04:52 21:48	04:21 22:27	05:56 22:05	07:01 19:31	08:06 18:08	08:44 (3) 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37		05:59 20:46	04:50 21:50	04:21 22:28	05:58 22:03	07:03 19:28	08:09 18:06	08:44 (3) 15:57	09:05 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39		05:57 20:48	04:48 21:52	04:21 22:28	06:00 22:01	07:06 19:25	08:11 18:03	08:46 (3) 15:56	09:05 15:37
23	08:44 16:26	07:36 17:38	06:19 18:42		05:54 20:50	04:47 21:54	04:22 22:28	06:02 22:00	07:08 19:22	08:13 18:00	08:47 (3) 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44		05:52 20:52	04:45 21:55	04:22 22:28	06:04 21:58	07:10 19:19	08:16 17:58	08:49 (3) 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46		05:49 20:54	04:43 21:57	04:22 22:28	06:06 21:56	07:12 19:16	08:18 17:55	09:00 (3) 15:51	09:07 15:38
26	08:39 16:32	07:28 17:45	06:11 18:48		05:46 20:57	04:42 21:59	04:23 22:28	06:08 21:54	07:14 19:14	08:20 17:53	08:50 (3) 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50		05:44 20:59	04:40 22:01	04:23 22:28	06:10 21:52	07:16 19:11	08:22 17:50	08:32 (3) 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53		05:41 21:01	04:39 22:03	04:24 22:28	06:13 21:50	07:18 19:08	08:25 17:48	08:34 (3) 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55		05:39 21:03	04:37 22:04	04:25 22:27	06:15 21:48	07:20 19:05	08:27 17:45	08:36 (3) 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57		05:36 21:05	04:36 22:06	04:25 22:27	06:17 21:46	07:23 19:02	08:29 17:43	08:37 (3) 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		05:34 22:07	04:34 22:07	04:26 21:44	06:19 20:26	07:32 16:41	08:31 15:41	08:39 (3) 15:44	09:07 15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case		231	66							299		
Sun reduction		0,22	0,37							0,31		
Oper. time red.		0,93	0,93							0,93		
Wind dir. red.		0,87	0,87							0,87		
Total reduction		0,18	0,30							0,25		
Total, real		41	19							74		

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AR - 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

0	1	Sum
4 076	4 076	8 152

	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AS - 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
0 1 Sum
4 076 4 076 8 152

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

SHADOW - Calendar

Shadow receptor: AT - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:16 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	05:32 21:10	04:32 22:10	04:27 22:26	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:33	06:30 20:13	07:33 18:49	07:43 16:29	08:46 15:40
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:04 15:55	08:14 17:01	07:04 18:06	06:37 20:15	05:20 21:21	04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:48 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:25 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:54 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21	04:38 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:09 21:31	04:23 22:22	04:39 22:16	05:39 21:16	06:44 19:53	07:49 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:47 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:36	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:04 16:10	08:59 15:36
15	08:56 16:09	07:56 17:20	06:42 18:24	06:16 20:32	05:02 21:38	04:22 22:25	04:44 22:12	05:45 21:08	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:46 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:22 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:02 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:31	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:45	04:50 21:50	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:09 18:06	08:19 15:57	09:05 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:28	04:56 22:01	06:00 20:50	07:06 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:58	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:44 21:57	04:23 22:28	05:02 21:56	06:06 20:43	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:24 22:28	05:06 21:52	06:11 20:37	07:16 19:11	07:22 16:50	08:31 15:49	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:42 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:25 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:46	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:37 21:05	04:36 22:06	04:26 22:27	05:11 21:46	06:17 20:29	07:23 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:44	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AU - 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
0 1 Sum
4 076 4 076 8 152

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

SHADOW - Calendar

Shadow receptor: AV - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:08	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:33 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:09	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:20	07:26 18:57	07:36 16:36	08:40 15:42
3	09:05 15:48	08:23 16:51	07:14 17:56	06:48 20:05	05:29 21:12	04:31 22:11	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:42 15:41
4	09:05 15:50	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:29 22:24	05:21 21:34	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:40
5	09:04 15:51	08:18 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:15	04:31 22:22	05:25 21:30	06:31 20:09	07:35 18:45	07:45 16:26	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:05	06:37 20:14	05:19 21:20	04:26 22:17	04:32 22:21	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:02 15:56	08:12 17:03	07:00 18:08	06:34 20:16	05:17 21:22	04:26 22:18	04:33 22:20	05:30 21:25	06:36 20:04	07:39 18:40	07:49 16:22	08:50 15:37
9	09:02 15:57	08:09 17:05	06:58 18:10	06:31 20:19	05:15 21:25	04:25 22:19	04:35 22:19	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:18	05:34 21:20	06:40 19:58	07:44 18:34	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:23 22:21	04:37 22:17	05:36 21:18	06:42 19:55	07:46 18:32	07:56 16:16	08:55 15:36
12	08:59 16:03	08:02 17:12	06:49 18:17	06:23 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	06:21 20:27	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:50 18:26	08:01 16:12	08:57 15:35
14	08:56 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:23	04:42 22:13	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:55 16:09	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:37	04:22 22:24	04:44 22:12	05:45 21:08	06:50 19:44	07:55 18:21	08:05 16:08	08:59 15:35
16	08:54 16:11	07:53 17:21	06:38 18:26	06:12 20:34	05:00 21:39	04:21 22:25	04:45 22:11	05:47 21:06	06:52 19:41	07:57 18:18	08:08 16:06	09:00 15:35
17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	04:21 22:25	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	04:21 22:26	04:49 22:07	05:51 21:00	06:57 19:36	08:01 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	06:04 20:41	04:54 21:45	04:21 22:26	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:14 16:00	09:03 15:35
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	04:21 22:27	04:52 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:16 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:04 15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 21:51	04:21 22:27	04:56 22:01	06:00 20:50	07:05 19:25	08:10 18:03	08:21 15:55	09:05 15:37
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:49	04:47 21:53	04:21 22:27	04:57 21:59	06:02 20:47	07:07 19:22	08:13 18:00	08:23 15:54	09:05 15:37
24	08:42 16:28	07:32 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:22 22:27	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:27	05:01 21:55	06:06 20:42	07:12 19:16	07:17 18:55	08:27 15:51	09:06 15:38
26	08:38 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:42 21:58	04:23 22:27	05:03 21:53	06:08 20:39	07:14 19:13	07:20 18:53	08:29 15:50	09:06 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 22:00	04:23 22:27	05:05 21:51	06:10 20:37	07:16 19:10	07:22 18:50	08:31 15:48	09:06 15:40
28	08:35 16:37	07:22 17:49	06:05 18:52	05:41 21:01	04:38 22:02	04:24 22:27	05:07 21:49	06:12 20:34	07:18 19:08	07:24 18:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:54	05:39 21:03	04:37 22:04	04:24 22:27	05:09 21:47	06:14 20:31	07:20 19:05	07:26 18:45	08:35 15:46	09:07 15:42
30	08:31 16:41		06:59 19:57	05:36 21:05	04:36 22:05	04:25 22:26	05:11 21:45	06:17 20:29	07:22 19:02	07:29 18:43	08:37 15:44	09:06 15:43
31	08:29 16:44		06:56 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:40		09:06 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AW - 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
0 1 Sum
4 076 4 076 8 152

	January			February			March			April			May		June	
1	09:07		10:21 (2)	08:27			07:20		08:29 (3)	06:54		05:34			04:33	
	15:46	24	10:45 (2)	16:46			17:52	39	09:08 (3)	20:01		21:08			22:09	
2	09:06		10:21 (2)	08:25			07:17		08:28 (3)	06:51		05:31			04:32	
	15:47	24	10:45 (2)	16:49			17:54	40	09:08 (3)	20:04		21:10			22:10	
3	09:06		10:21 (2)	08:23			07:14		08:28 (3)	06:48		05:29			04:31	
	15:48	24	10:45 (2)	16:51			17:57	39	09:07 (3)	20:06		21:12			22:12	
4	09:06		10:21 (2)	08:21			07:12		08:29 (3)	06:46		05:27			04:30	
	15:50	24	10:45 (2)	16:53			17:59	38	09:07 (3)	20:08		21:14			22:13	
5	09:05		10:23 (2)	08:19			07:09		07:42 (4)	06:43		05:24			04:28	
	15:51	23	10:46 (2)	16:56			18:01	42	09:06 (3)	20:10		21:16			22:15	
6	09:04		10:23 (2)	08:17			07:06		07:37 (4)	06:40		05:22			04:27	
	15:53	24	10:47 (2)	16:58			18:04	49	09:05 (3)	20:12		21:19			22:16	
7	09:04		10:24 (2)	08:14		08:46 (5)	07:04		07:35 (4)	06:37		05:20			04:27	
	15:54	23	10:47 (2)	17:00	6	08:52 (5)	18:06	50	09:03 (3)	20:15		21:21			22:17	
8	09:03		10:23 (2)	08:12		08:43 (5)	07:01		07:33 (4)	06:35		05:17			04:26	
	15:56	23	10:46 (2)	17:03	13	08:56 (5)	18:08	51	09:02 (3)	20:17		21:23			22:18	
9	09:02		10:24 (2)	08:10		08:41 (5)	06:58		07:32 (4)	06:32		05:15			04:25	
	15:58	22	10:46 (2)	17:05	16	08:57 (5)	18:10	51	09:01 (3)	20:19		21:25			22:19	
10	09:01		10:25 (2)	08:08		08:40 (5)	06:55		07:31 (4)	06:29		05:13			04:24	
	15:59	22	10:47 (2)	17:08	19	08:59 (5)	18:13	49	08:58 (3)	20:21		21:27			22:21	
11	09:00		10:26 (2)	08:05		08:39 (5)	06:53		07:30 (4)	06:26		05:11			04:24	
	16:01	21	10:47 (2)	17:10	20	08:59 (5)	18:15	45	08:55 (3)	20:23		21:29			22:22	
12	08:59		10:26 (2)	08:03		08:39 (5)	06:50		07:29 (4)	06:24		05:08			04:23	
	16:03	20	10:46 (2)	17:12	21	09:00 (5)	18:17	39	08:51 (3)	20:26		21:31			22:22	
13	08:58		10:28 (2)	08:00		08:38 (5)	06:47		07:29 (4)	06:21		05:06			04:23	
	16:05	19	10:47 (2)	17:15	23	09:01 (5)	18:19	26	07:55 (4)	20:28		21:34			22:23	
14	08:57		10:28 (2)	07:58		08:37 (5)	06:44		07:29 (4)	06:18		05:04			04:22	
	16:07	18	10:46 (2)	17:17	24	09:01 (5)	18:22	27	07:56 (4)	20:30		21:36			22:24	
15	08:56		10:30 (2)	07:56		08:38 (5)	06:41		07:29 (4)	06:15		05:02			04:22	
	16:09	16	10:46 (2)	17:19	23	09:01 (5)	18:24	26	07:55 (4)	20:32		21:38			22:25	
16	08:55		10:31 (2)	07:53		08:37 (5)	06:39		07:29 (4)	06:13		05:00			04:21	
	16:11	14	10:45 (2)	17:22	24	09:01 (5)	18:26	25	07:54 (4)	20:34		21:40			22:25	
17	08:53		10:33 (2)	07:51		08:38 (5)	06:36		07:29 (4)	06:10		04:58			04:21	
	16:13	11	10:44 (2)	17:24	23	09:01 (5)	18:28	24	07:53 (4)	20:37		21:42			22:26	
18	08:52		10:36 (2)	07:48		08:37 (3)	06:33		07:29 (4)	06:07		04:56			04:21	
	16:15	6	10:42 (2)	17:26	26	09:03 (3)	18:30	23	07:52 (4)	20:39		21:44			22:27	
19	08:50			07:46		08:35 (3)	06:30		07:30 (4)	06:05		04:54			04:21	
	16:17			17:29	29	09:04 (3)	18:33	20	07:50 (4)	20:41		21:46			22:27	
20	08:49			07:43		08:34 (3)	06:28		06:54 (1)	06:02		04:52			04:21	
	16:19			17:31	32	09:06 (3)	18:35	21	07:49 (4)	20:43		21:48			22:27	
21	08:47			07:41		08:33 (3)	06:25		06:51 (1)	05:59		04:50			04:21	
	16:21			17:34	33	09:06 (3)	18:37	20	07:46 (4)	20:45		21:50			22:28	
22	08:46			07:38		08:32 (3)	06:22		06:48 (1)	05:57		04:48			04:21	
	16:23			17:36	35	09:07 (3)	18:39	12	07:00 (1)	20:48		21:52			22:28	
23	08:44			07:35		08:30 (3)	06:19		06:45 (1)	05:54		04:47			04:22	
	16:26			17:38	37	09:07 (3)	18:42	15	07:00 (1)	20:50		21:54			22:28	
24	08:42			07:33		08:30 (3)	06:16		06:42 (1)	05:52		04:45			04:22	
	16:28			17:41	38	09:08 (3)	18:44	18	07:00 (1)	20:52		21:55			22:28	
25	08:41			07:30		08:30 (3)	06:14		06:41 (1)	05:49		04:43			04:22	
	16:30			17:43	38	09:08 (3)	18:46	18	06:59 (1)	20:54		21:57			22:28	
26	08:39			07:28		08:29 (3)	06:11		06:42 (1)	05:46		04:42			04:23	
	16:32			17:45	39	09:08 (3)	18:48	18	07:00 (1)	20:57		21:59			22:28	
27	08:37			07:25		08:29 (3)	06:08		06:41 (1)	05:44		04:40			04:23	
	16:35			17:47	40	09:09 (3)	18:50	18	06:59 (1)	20:59		22:01			22:28	
28	08:35			07:22		08:29 (3)	06:05		06:42 (1)	05:41		04:39			04:24	
	16:37			17:50	40	09:09 (3)	18:53	15	06:57 (1)	21:01		22:02			22:27	
29	08:33						07:02		07:42 (1)	05:39		04:37			04:25	
	16:39						19:55	14	07:56 (1)	21:03		22:04			22:27	
30	08:31						07:00		07:45 (1)	05:36		04:36			04:25	
	16:42						19:57	9	07:54 (1)	21:05		22:06			22:27	
31	08:29						06:57					04:34				
	16:44						19:59					22:07				
Potential sun hours	227			262			365			429		515			539	
Total, worst case	358			599			881									
Sun reduction	0,13			0,22			0,37									
Oper. time red.	0,93			0,93			0,93									
Wind dir. red.	0,40			0,81			0,90									
Total reduction	0,05			0,17			0,31									
Total, real	17			100			271									

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AW - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25	08:08 (4)	07:34
	22:26	21:42	20:24	19:00	09:27 (3)	16:38
2	04:27	05:17	06:23	07:27	08:08 (4)	07:36
	22:26	21:39	20:21	18:57	09:32 (3)	16:36
3	04:28	05:19	06:25	07:29	08:09 (4)	07:38
	22:25	21:37	20:18	18:54	09:35 (3)	16:34
4	04:29	05:22	06:27	07:31	08:09 (4)	07:41
	22:24	21:35	20:15	18:51	09:37 (3)	16:31
5	04:30	05:24	06:30	07:33	08:09 (4)	07:43
	22:24	21:33	20:13	18:49	09:38 (3)	16:29
6	04:31	05:26	06:32	07:35	08:10 (4)	07:45
	22:23	21:30	20:10	18:46	09:39 (3)	16:27
7	04:32	05:28	06:34	07:38	08:12 (4)	07:48
	22:22	21:28	20:07	18:43	09:40 (3)	16:24
8	04:34	05:30	06:36	07:40	08:15 (4)	07:50
	22:21	21:26	20:04	18:40	09:41 (3)	16:22
9	04:35	05:32	06:38	07:42	09:04 (3)	07:52
	22:20	21:23	20:01	18:38	09:41 (3)	16:20
10	04:36	05:34	06:40	07:44	09:03 (3)	07:55
	22:19	21:21	19:59	18:35	09:41 (3)	16:18
11	04:38	05:36	06:42	07:46	09:03 (3)	07:57
	22:18	21:18	19:56	18:32	09:42 (3)	16:16
12	04:39	05:38	06:44	07:49	09:02 (3)	07:59
	22:17	21:16	19:53	18:29	09:42 (3)	16:14
13	04:41	05:41	06:46	07:51	09:01 (3)	08:01
	22:15	21:14	19:50	18:27	09:41 (3)	16:12
14	04:42	05:43	06:49	07:53	09:02 (3)	08:04
	22:14	21:11	19:47	18:24	09:42 (3)	16:10
15	04:44	05:45	06:51	07:55	09:01 (3)	08:06
	22:13	21:09	19:45	18:21	09:41 (3)	16:08
16	04:45	05:47	06:53	07:57	09:01 (3)	08:08
	22:11	21:06	19:42	18:19	09:40 (3)	16:06
17	04:47	05:49	06:55	07:59	09:02 (3)	08:10
	22:10	21:03	19:39	18:16	09:40 (3)	16:04
18	04:49	05:51	06:57	07:29 (1)	08:02	09:02 (3)
	22:08	21:01	19:36	18:13	09:39 (3)	16:02
19	04:50	05:53	06:59	07:29 (1)	08:04	09:02 (3)
	22:06	20:58	19:33	18:11	09:38 (3)	16:01
20	04:52	05:55	07:01	07:31 (1)	08:06	09:03 (3)
	22:05	20:56	19:30	18:08	09:38 (3)	15:59
21	04:54	05:58	07:03	07:33 (1)	08:09	09:03 (3)
	22:03	20:53	19:28	18:06	09:36 (3)	15:57
22	04:56	06:00	07:05	07:35 (1)	08:11	09:05 (3)
	22:01	20:51	19:25	18:03	09:36 (3)	15:56
23	04:58	06:02	07:08	07:37 (1)	08:13	09:05 (3)
	22:00	20:48	19:22	18:00	09:34 (3)	15:54
24	04:59	06:04	07:10	08:14 (4)	08:15	09:07 (3)
	21:58	20:45	19:19	17:58	09:33 (3)	15:53
25	05:01	06:06	07:12	08:13 (4)	07:18	08:08 (5)
	21:56	20:43	19:16	16:55	08:31 (5)	15:51
26	05:03	06:08	07:14	08:11 (4)	07:20	08:08 (5)
	21:54	20:40	19:14	16:53	08:31 (5)	15:50
27	05:05	06:10	07:16	08:11 (4)	07:22	08:07 (5)
	21:52	20:37	19:11	16:50	08:31 (5)	15:48
28	05:07	06:13	07:18	08:10 (4)	07:25	08:08 (5)
	21:50	20:34	19:08	16:48	08:31 (5)	15:47
29	05:09	06:15	07:20	08:09 (4)	07:27	08:08 (5)
	21:48	20:32	19:05	16:45	08:30 (5)	15:46
30	05:11	06:17	07:23	08:09 (4)	07:29	08:09 (5)
	21:46	20:29	19:02	16:43	08:30 (5)	15:45
31	05:13	06:19		07:31	08:09 (5)	
	21:44	20:26		16:41	08:29 (5)	
Potential sun hours	538	474	386	321	241	207
Total, worst case			344	1104	153	741
Sun reduction			0,43	0,31	0,15	0,13
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			0,97	0,83	0,53	0,40
Total reduction			0,39	0,24	0,08	0,05
Total, real			133	262	12	35

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

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

SHADOW - Calendar

Shadow receptor: AX - Mazkuikuli
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

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

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

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

SHADOW - Calendar

Shadow receptor: AY - Mazspri 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:45	08:27 16:46	07:19 17:52	06:54 20:01	05:33 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:34 16:38	08:39 15:43
2	09:06 15:46	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:10	04:31 22:10	04:26 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:35	08:41 15:42
3	09:06 15:48	08:23 16:50	07:14 17:56	06:48 20:05	05:29 21:12	04:30 22:12	04:27 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:28 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:40
5	09:05 15:51	08:19 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:15	04:29 22:24	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39
6	09:04 15:52	08:16 16:58	07:06 18:03	06:40 20:12	05:21 21:18	04:27 22:16	04:31 22:23	05:25 21:30	06:31 20:10	07:35 18:45	07:45 16:26	08:48 15:38
7	09:04 15:54	08:14 17:00	07:03 18:05	06:37 20:14	05:19 21:21	04:26 22:17	04:32 22:22	05:27 21:28	06:33 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:03 15:55	08:12 17:02	07:01 18:08	06:34 20:17	05:17 21:23	04:25 22:18	04:33 22:21	05:29 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:37
9	09:02 15:57	08:10 17:05	06:58 18:10	06:31 20:19	05:15 21:25	04:24 22:19	04:34 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:36
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:12 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:34	07:54 16:18	08:54 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:23 22:21	04:37 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:23 20:25	05:08 21:31	04:22 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:13	08:56 15:35
13	08:58 16:04	08:00 17:14	06:47 18:19	06:20 20:28	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:26	08:01 16:11	08:57 15:35
14	08:57 16:06	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:36	04:22 22:24	04:42 22:14	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:09	08:59 15:35
15	08:56 16:08	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:38	04:21 22:25	04:43 22:12	05:44 21:08	06:50 19:44	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:10	07:53 17:21	06:38 18:26	06:12 20:34	04:59 21:40	04:21 22:25	04:45 22:11	05:47 21:06	06:52 19:41	07:57 18:18	08:08 16:06	09:01 15:35
17	08:53 16:12	07:51 17:24	06:36 18:28	06:10 20:36	04:57 21:42	04:21 22:26	04:46 22:10	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:02 15:35
18	08:52 16:14	07:48 17:26	06:33 18:30	06:07 20:39	04:55 21:44	04:21 22:26	04:48 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:03 15:35
19	08:50 16:16	07:45 17:28	06:30 18:32	06:04 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:15 16:00	09:03 15:35
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:58	09:04 15:35
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:50	04:21 22:28	04:53 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:05 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39	05:56 20:47	04:48 21:52	04:21 22:28	04:55 22:01	05:59 20:50	07:05 19:25	08:11 18:03	08:21 15:55	09:05 15:36
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:46 21:53	04:21 22:28	04:57 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:27	07:33 17:40	06:16 18:43	05:51 20:52	04:44 21:55	04:21 22:28	04:59 21:58	06:04 20:45	07:09 19:19	08:15 17:57	08:25 15:52	09:06 15:37
25	08:41 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:38
26	08:39 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:41 21:59	04:22 22:28	05:03 21:54	06:08 20:40	07:14 19:13	07:20 16:52	08:29 15:49	09:07 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:36	07:22 17:49	06:05 18:52	05:41 21:01	04:38 22:02	04:23 22:27	05:07 21:50	06:12 20:34	07:18 19:08	07:24 16:47	08:33 15:47	09:07 15:40
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30	08:31 16:41		06:59 19:57	05:36 21:05	04:35 22:06	04:25 22:27	05:11 21:46	06:16 20:29	07:22 19:02	07:29 16:43	08:37 15:44	09:07 15:43
31	08:29 16:43		06:56 19:59		04:34 22:07		05:13 21:44	06:19 20:26		07:31 16:40		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AZ - Mazspriedzi (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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:45	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:34 16:38	08:39 15:43
2	09:06 15:46	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:10	04:31 22:10	04:26 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:35	08:41 15:42
3	09:06 15:48	08:23 16:50	07:14 17:56	06:48 20:05	05:29 21:12	04:30 22:12	04:27 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:28 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:40
5	09:05 15:51	08:19 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:15	04:29 22:24	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39
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7	09:04 15:54	08:14 17:00	07:03 18:05	06:37 20:14	05:19 21:21	04:26 22:17	04:32 22:22	05:27 21:28	06:33 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:03 15:55	08:12 17:02	07:01 18:08	06:34 20:17	05:17 21:23	04:25 22:18	04:33 22:21	05:29 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:37
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31	08:29 16:43		06:56 19:59		04:34 22:07		05:13 21:44	06:19 20:26		07:31 16:40		09:07 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.												
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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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BA - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
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15	08:56 16:09	07:56 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:24	04:44 22:12	05:45 21:08	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
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Potential sun hours	228	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												
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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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BB - 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
0 1 Sum
4 076 4 076 8 152

	January			February			March			April		May		June	
1	09:07		10:50 (1)	08:27		07:20	08:21 (10)	06:54	05:34	04:33					
	15:46	23	11:32 (4)	16:46		17:52	08:27 (10)	20:01	21:08	22:09					
2	09:06		10:51 (1)	08:25		07:17		06:51	05:31	04:32					
	15:47	20	11:32 (4)	16:48		17:54		20:03	21:10	22:10					
3	09:06		11:17 (4)	08:23		07:14		06:48	05:29	04:30					
	15:48	14	11:31 (4)	16:51		17:57		20:06	21:12	22:12					
4	09:06		11:18 (4)	08:21		07:12		06:46	05:26	04:29					
	15:50	13	11:31 (4)	16:53		17:59		20:08	21:14	22:13					
5	09:05		11:21 (4)	08:19		07:09		06:43	05:24	04:28					
	15:51	10	11:31 (4)	16:55		18:01		20:10	21:16	22:15					
6	09:04		11:22 (4)	08:17		07:06		06:40	05:22	04:27					
	15:53	8	11:30 (4)	16:58		18:03		20:12	21:19	22:16					
7	09:04		11:26 (4)	08:14		07:03		06:37	05:19	04:26					
	15:54	1	11:27 (4)	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					
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	16:01			17:10		18:15		20:23	21:29	22:22					
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	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	08:25 (10)	06:41		06:15	05:02	04:22					
	16:09			17:19	3 08:28 (10)	18:24		20:32	21:38	22:25					
16	08:55			07:53	08:22 (10)	06:39		06:13	05:00	04:21					
	16:11			17:22	9 08:31 (10)	18:26		20:34	21:40	22:25					
17	08:53			07:51	08:20 (10)	06:36		06:10	04:58	04:21					
	16:13			17:24	14 08:34 (10)	18:28		20:37	21:42	22:26					
18	08:52			07:48	08:17 (10)	06:33		06:07	04:56	04:21					
	16:15			17:26	17 08:34 (10)	18:30		20:39	21:44	22:27					
19	08:50			07:46	08:16 (10)	06:30		06:05	04:54	04:21					
	16:17			17:29	19 08:35 (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	20 08:36 (10)	18:35		20:43	21:48	22:27					
21	08:47			07:41	08:15 (10)	06:25		05:59	04:50	04:21					
	16:21			17:33	21 08:36 (10)	18:37		20:45	21:50	22:28					
22	08:46			07:38	08:14 (10)	06:22		05:57	04:48	04:21					
	16:23			17:36	22 08:36 (10)	18:39		20:48	21:52	22:28					
23	08:44			07:35	08:14 (10)	06:19		05:54	04:47	04:21					
	16:25			17:38	21 08:35 (10)	18:41		20:50	21:54	22:28					
24	08:42			07:33	08:15 (10)	06:16		05:51	04:45	04:22					
	16:28			17:40	21 08:36 (10)	18:44		20:52	21:55	22:28					
25	08:41			07:30	08:15 (10)	06:13		05:49	04:43	04:22					
	16:30			17:43	20 08:35 (10)	18:46		20:54	21:57	22:28					
26	08:39			07:28	08:16 (10)	06:11		05:46	04:42	04:23					
	16:32			17:45	18 08:34 (10)	18:48		20:57	21:59	22:28					
27	08:37			07:25	08:16 (10)	06:08		05:44	04:40	04:23					
	16:34			17:47	16 08:32 (10)	18:50		20:59	22:01	22:28					
28	08:35			07:22	08:19 (10)	06:05		05:41	04:38	04:24					
	16:37			17:50	12 08:31 (10)	18:52		21:01	22:02	22:28					
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		89		233		6									
Sun reduction		0,13		0,22		0,37									
Oper. time red.		0,93		0,93		0,93									
Wind dir. red.		0,22		0,86		0,86									
Total reduction		0,03		0,18		0,29									
Total, real		2		41		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)

SHADOW - Calendar

Shadow receptor: BB - 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
0 1 Sum
4 076 4 076 8 152

	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	08:45
	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
	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	16:24	15:38
8	04:33	05:30	06:36	07:40	07:50	08:51
	22:21	21:26	20:04	18:40	16:22	15:37
9	04:35	05:32	06:38	07:42	07:52	08:52
	22:20	21:23	20:01	18:37	16:20	15:37
10	04:36	05:34	06:40	07:44	07:55	08:54
	22:19	21:21	19:59	18:35	16:18	15:36
11	04:37	05:36	06:42	07:46	07:57	08:55
	22:18	21:18	19:56	18:32	16:16	15:36
12	04:39	05:38	06:44	07:49	07:59	08:56
	22:17	21:16	19:53	18:29	16:14	15:36
13	04:40	05:40	06:46	07:51	08:01	08:58
	22:15	21:14	19:50	18:27	09:02 (10)	16:12
14	04:42	05:43	06:49	07:53	08:51 (10)	08:04
	22:14	21:11	19:47	18:24	09:05 (10)	16:10
15	04:43	05:45	06:51	07:55	08:49 (10)	08:06
	22:13	21:09	19:45	18:21	09:06 (10)	16:08
16	04:45	05:47	06:53	07:57	08:47 (10)	08:08
	22:11	21:06	19:42	18:19	09:06 (10)	16:06
17	04:47	05:49	06:55	08:00	08:47 (10)	08:10
	22:10	21:03	19:39	18:16	09:07 (10)	16:04
18	04:48	05:51	06:57	08:02	08:46 (10)	08:13
	22:08	21:01	19:36	18:13	09:07 (10)	16:02
19	04:50	05:53	06:59	08:04	08:45 (10)	08:15
	22:06	20:58	19:33	18:11	09:07 (10)	16:01
20	04:52	05:55	07:01	08:06	08:46 (10)	08:17
	22:05	20:56	19:30	18:08	09:07 (10)	15:59
21	04:54	05:57	07:03	08:09	08:45 (10)	08:19
	22:03	20:53	19:28	18:05	09:06 (10)	15:57
22	04:56	06:00	07:05	08:11	08:46 (10)	08:21
	22:01	20:50	19:25	18:03	09:06 (10)	15:55
23	04:57	06:02	07:08	08:13	08:46 (10)	08:23
	22:00	20:48	19:22	18:00	09:05 (10)	15:54
24	04:59	06:04	07:10	08:15	08:48 (10)	08:25
	21:58	20:45	19:19	17:58	09:04 (10)	15:52
25	05:01	06:06	07:12	07:18	07:50 (10)	08:27
	21:56	20:43	19:16	16:55	08:03 (10)	15:51
26	05:03	06:08	07:14	07:20	07:53 (10)	08:30
	21:54	20:40	19:14	16:53	08:01 (10)	15:50
27	05:05	06:10	07:16	07:22	08:32	09:07
	21:52	20:37	19:11	16:50	15:48	15:40
28	05:07	06:12	07:18	07:25	08:34	09:07
	21:50	20:34	19:08	16:48	15:47	15:41
29	05:09	06:15	07:20	07:27	08:35	09:07
	21:48	20:32	19:05	16:45	15:46	15:42
30	05:11	06:17	07:22	07:29	08:37	09:07
	21:46	20:29	19:02	16:43	15:44	15:43
31	05:13	06:19		07:31		09:07
	21:44	20:26		16:40		15:44
Potential sun hours	539	475	386	321	241	207
Total, worst case				240		712
Sun reduction				0,31		0,13
Oper. time red.				0,93		0,93
Wind dir. red.				0,86		0,24
Total reduction				0,24		0,03
Total, real				59		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)

SHADOW - Calendar

Shadow receptor: BC - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:06 15:45	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	19:50 (8) 20:20 (8)	04:33 22:08	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:33 16:38	08:39 15:43	
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:09	19:49 (8) 20:19 (8)	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:20	07:26 18:56	07:36 16:36	08:40 15:42	
3	09:05 15:48	08:23 16:51	07:14 17:56	06:48 20:05	05:29 21:12	19:50 (8) 20:18 (8)	04:30 22:11	04:28 22:25	05:19 21:37	20:10 (8) 20:18 (8)	06:25 20:18	07:29 18:54	07:38 16:33	08:42 15:41
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	19:51 (8) 20:18 (8)	04:29 22:13	04:29 22:24	05:21 21:34	20:07 (8) 20:21 (8)	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:40
5	09:04 15:51	08:18 16:55	07:09 18:01	06:42 20:10	05:24 21:16	19:52 (8) 20:17 (8)	04:28 22:14	04:30 22:23	05:23 21:32	20:05 (8) 20:23 (8)	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39
6	09:04 15:52	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	19:53 (8) 20:16 (8)	04:27 22:15	04:31 22:22	05:25 21:30	20:03 (8) 20:24 (8)	06:31 20:09	07:35 18:45	07:45 16:26	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:05	06:37 20:14	05:19 21:20	19:53 (8) 20:14 (8)	04:26 22:17	04:32 22:21	05:28 21:28	20:02 (8) 20:25 (8)	06:33 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:02 15:56	08:12 17:02	07:00 18:08	06:34 20:16	05:17 21:22	19:55 (8) 20:12 (8)	04:26 22:18	04:33 22:20	05:30 21:25	20:01 (8) 20:26 (8)	06:36 20:04	07:39 18:40	07:49 16:22	08:50 15:37
9	09:02 15:57	08:09 17:05	06:58 18:10	06:31 20:19	05:15 21:25	19:57 (8) 20:10 (8)	04:25 22:19	04:35 22:19	05:32 21:23	20:00 (8) 20:27 (8)	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:12 21:27	20:02 (8) 20:05 (8)	04:24 22:20	04:36 22:18	05:34 21:20	19:59 (8) 20:28 (8)	06:40 19:58	07:44 18:34	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:14	06:26 20:23	05:10 21:29		04:23 22:21	04:37 22:17	05:36 21:18	19:58 (8) 20:28 (8)	06:42 19:55	07:46 18:32	07:56 16:16	08:55 15:36
12	08:59 16:03	08:02 17:12	06:49 18:17	06:23 20:25	05:08 21:31		04:23 22:22	04:39 22:16	05:38 21:16	19:58 (8) 20:29 (8)	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	06:21 20:27	05:06 21:33		04:22 22:23	04:40 22:15	05:40 21:13	19:57 (8) 20:29 (8)	06:46 19:50	07:50 18:26	08:01 16:12	08:57 15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35		04:22 22:24	04:42 22:13	05:42 21:11	19:57 (8) 20:29 (8)	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:55 16:08	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:37		04:22 22:24	04:43 22:12	05:45 21:08	19:57 (8) 20:29 (8)	06:50 19:44	07:55 18:21	08:05 16:08	08:59 15:35
16	08:54 16:10	07:53 17:21	06:38 18:26	06:12 20:34	05:00 21:39	20:00 (8) 20:03 (8)	04:21 22:25	04:45 22:11	05:47 21:06	19:55 (8) 20:28 (8)	06:52 19:41	07:57 18:18	08:08 16:06	09:00 15:35
17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	19:58 (8) 20:05 (8)	04:21 22:25	04:47 22:09	05:49 21:03	19:55 (8) 20:28 (8)	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	19:56 (8) 20:07 (8)	04:21 22:26	04:48 22:08	05:51 21:00	19:55 (8) 20:27 (8)	06:57 19:36	08:01 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	06:04 20:41	04:54 21:45	19:55 (8) 20:10 (8)	04:21 22:26	04:50 22:06	05:53 20:58	19:55 (8) 20:25 (8)	06:59 19:33	08:04 18:10	08:14 16:00	09:03 15:35
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	19:53 (8) 20:11 (8)	04:21 22:27	04:52 22:04	05:55 20:55	19:55 (8) 20:22 (8)	07:01 19:30	08:06 18:08	08:16 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:49	19:52 (8) 20:14 (8)	04:21 22:27	04:54 22:03	05:57 20:53	19:56 (8) 20:20 (8)	07:03 19:27	08:08 18:05	08:19 15:57	09:04 15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	05:56 20:47	04:48 21:51	19:51 (8) 20:15 (8)	04:21 22:27	04:56 22:01	05:59 20:50	19:56 (8) 20:17 (8)	07:05 19:24	08:10 18:03	08:21 15:55	09:05 15:36
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:49	04:46 21:53	19:51 (8) 20:18 (8)	04:21 22:27	04:57 21:59	06:02 20:47	19:57 (8) 20:15 (8)	07:07 19:22	08:13 18:00	08:23 15:54	09:05 15:37
24	08:42 16:28	07:32 17:40	06:16 18:43	05:51 20:52	04:45 21:55	19:49 (8) 20:19 (8)	04:22 22:27	04:59 21:57	06:04 20:45	19:57 (8) 20:12 (8)	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	19:49 (8) 20:22 (8)	04:22 22:27	05:01 21:55	06:06 20:42	19:58 (8) 20:10 (8)	07:11 19:16	08:17 16:55	08:27 15:51	09:06 15:38
26	08:38 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:41 21:58	19:49 (8) 20:21 (8)	04:23 22:27	05:03 21:53	06:08 20:39	20:00 (8) 20:07 (8)	07:14 19:13	07:20 16:52	08:29 15:49	09:06 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 22:00	19:49 (8) 20:21 (8)	04:23 22:27	05:05 21:51	06:10 20:37	20:02 (8) 20:04 (8)	07:16 19:10	07:22 16:50	08:31 15:48	09:06 15:40
28	08:35 16:37	07:22 17:49	06:05 18:52	05:41 21:01	04:38 22:02	19:49 (8) 20:22 (8)	04:24 22:27	05:07 21:49	06:12 20:34	19:08 20:20	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39	07:02 19:54	05:39 21:03	05:39 21:03	04:37 22:04	19:48 (8) 20:21 (8)	04:24 22:27	05:09 21:47	06:14 20:31	19:02 20:22	07:20 19:05	07:26 16:45	08:35 15:46	09:07 15:42
30	08:31 16:41	06:59 19:57	05:36 21:05	05:36 21:05	04:35 22:05	19:49 (8) 20:20 (8)	04:25 22:26	05:11 21:45	06:17 20:29	19:02 20:26	07:22 19:02	07:29 16:43	08:37 15:44	09:07 15:43
31	08:29 16:44	06:56 19:59	05:36 21:05	05:36 21:05	04:34 22:07	20:20 (8)	04:25 22:26	05:13 21:43	06:19 20:26	19:02	07:21 19:02	07:31 16:40	08:31 15:44	09:06 15:44
Potential sun hours	227	262	365	429	515	217	539	538	474	386	321	241	207	
Total, worst case				351	217				576					
Sun reduction				0,46	0,58				0,55					
Oper. time red.				0,93	0,93				0,93					
Wind dir. red.				0,95	0,95				0,95					
Total reduction				0,41	0,51				0,48					
Total, real				142	111				276					

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: BD - 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
0 1 Sum
4 076 4 076 8 152

	January			February			March			April	May	June
1	09:07		11:09 (11)	08:27		09:01 (12)	07:20		06:54	05:34	04:33	
	15:45	74	13:02 (10)	16:46	23	12:57 (10)	17:52		20:01	21:07	22:09	
2	09:06		11:10 (11)	08:25		08:58 (12)	07:17		06:51	05:31	04:32	
	15:47	74	13:03 (10)	16:48	17	09:15 (12)	17:54		20:03	21:10	22:10	
3	09:06		11:11 (11)	08:23		08:58 (12)	07:14	07:41 (13)	06:48	05:29	04:30	
	15:48	74	13:04 (10)	16:51	19	09:17 (12)	17:56	4	07:45 (13)	20:06	21:12	
4	09:05		11:11 (11)	08:21		08:56 (12)	07:11	07:38 (13)	06:45	05:26	04:29	
	15:49	73	13:04 (10)	16:53	21	09:17 (12)	17:59	10	07:48 (13)	20:08	21:14	
5	09:05		11:12 (11)	08:19		08:56 (12)	07:09	07:36 (13)	06:43	05:24	04:28	
	15:51	72	13:04 (10)	16:55	23	09:19 (12)	18:01	14	07:50 (13)	20:10	21:16	
6	09:04		11:13 (11)	08:16		08:56 (12)	07:06	07:33 (13)	06:40	05:22	04:27	
	15:52	73	13:06 (10)	16:58	24	09:20 (12)	18:03	18	07:51 (13)	20:12	21:18	
7	09:04		11:14 (11)	08:14		08:55 (12)	07:03	07:30 (13)	06:37	05:19	04:26	
	15:54	72	13:06 (10)	17:00	25	09:20 (12)	18:06	22	07:52 (13)	20:14	21:21	
8	09:03		11:14 (11)	08:12		08:55 (12)	07:01	07:27 (13)	06:34	05:17	04:25	
	15:56	72	13:06 (10)	17:02	26	09:21 (12)	18:08	25	07:52 (13)	20:17	21:23	
9	09:02		11:15 (11)	08:10		08:55 (12)	06:58	07:24 (13)	06:32	05:15	04:25	
	15:57	70	13:06 (10)	17:05	25	09:20 (12)	18:10	28	07:52 (13)	20:19	21:25	
10	09:01		11:16 (11)	08:07		08:55 (12)	06:55	07:23 (13)	06:29	05:12	04:24	
	15:59	70	13:07 (10)	17:07	26	09:21 (12)	18:12	30	07:53 (13)	20:21	21:27	
11	09:00		11:17 (11)	08:05		08:55 (12)	06:52	07:22 (13)	06:26	05:10	04:23	
	16:01	69	13:08 (10)	17:10	26	09:21 (12)	18:15	31	07:53 (13)	20:23	21:29	
12	08:59		11:18 (11)	08:03		08:56 (12)	06:50	07:22 (13)	06:23	05:08	04:23	
	16:03	66	13:07 (10)	17:12	25	09:21 (12)	18:17	31	07:53 (13)	20:25	21:31	
13	08:58		11:19 (11)	08:00		08:56 (12)	06:47	07:21 (13)	06:21	05:06	04:22	
	16:05	65	13:08 (10)	17:14	24	09:20 (12)	18:19	31	07:52 (13)	20:28	21:33	
14	08:57		11:20 (11)	07:58		08:56 (12)	06:44	07:21 (13)	06:18	05:04	04:22	
	16:06	63	13:08 (10)	17:17	23	09:19 (12)	18:21	31	07:52 (13)	20:30	21:36	
15	08:56		11:22 (11)	07:55		08:57 (12)	06:41	07:22 (13)	06:15	05:02	04:21	
	16:08	61	13:09 (10)	17:19	22	09:19 (12)	18:24	30	07:52 (13)	20:32	21:38	
16	08:54		11:24 (11)	07:53		08:58 (12)	06:38	07:22 (13)	06:12	05:00	04:21	
	16:10	59	15:28 (1)	17:22	19	09:17 (12)	18:26	29	07:51 (13)	20:34	21:40	
17	08:53		11:26 (11)	07:51		08:59 (12)	06:36	07:22 (13)	06:10	04:58	04:21	
	16:12	57	15:31 (1)	17:24	17	09:16 (12)	18:28	27	07:49 (13)	20:36	21:42	
18	08:52		12:27 (10)	07:48		09:01 (12)	06:33	07:23 (13)	06:07	04:56	04:21	
	16:15	49	15:34 (1)	17:26	13	09:14 (12)	18:30	25	07:48 (13)	20:39	21:44	
19	08:50		12:27 (10)	07:46		09:05 (12)	06:30	07:24 (13)	06:04	04:54	04:21	
	16:17	51	15:36 (1)	17:29	4	09:09 (12)	18:32	22	07:46 (13)	20:41	21:46	
20	08:49		12:27 (10)	07:43		06:27		07:25 (13)	06:02	04:52	04:21	
	16:19	53	15:38 (1)	17:31		18:35	19	07:44 (13)	20:43	21:48	22:27	
21	08:47		12:28 (10)	07:40		06:25		07:28 (13)	05:59	04:50	04:21	
	16:21	55	15:41 (1)	17:33		18:37	13	07:41 (13)	20:45	21:50	22:28	
22	08:46		12:29 (10)	07:38		06:22			05:57	04:48	04:21	
	16:23	55	15:43 (1)	17:36		18:39			20:48	21:52	22:28	
23	08:44		12:30 (10)	07:35		06:19			05:54	04:46	04:21	
	16:25	53	15:43 (1)	17:38		18:41			20:50	21:53	22:28	
24	08:42		12:31 (10)	07:33		06:16			05:51	04:45	04:22	
	16:28	51	15:43 (1)	17:40		18:44			20:52	21:55	22:28	
25	08:41		12:32 (10)	07:30		06:13			05:49	04:43	04:22	
	16:30	48	15:43 (1)	17:43		18:46			20:54	21:57	22:28	
26	08:39		12:33 (10)	07:27		06:11			05:46	04:41	04:22	
	16:32	45	15:42 (1)	17:45		18:48			20:56	21:59	22:28	
27	08:37		12:34 (10)	07:25		06:08			05:44	04:40	04:23	
	16:34	41	15:42 (1)	17:47		18:50			20:59	22:01	22:28	
28	08:35		12:36 (10)	07:22		06:05			05:41	04:38	04:24	
	16:37	32	15:39 (1)	17:50		18:52			21:01	22:02	22:27	
29	08:33		12:37 (10)			07:02			05:39	04:37	04:24	
	16:39	26	13:03 (10)			19:55			21:03	22:04	22:27	
30	08:31		12:39 (10)			06:59			05:36	04:35	04:25	
	16:41	23	13:02 (10)			19:57			21:05	22:06	22:27	
31	08:29		09:03 (12)			06:57				04:34		
	16:44	25	13:00 (10)			19:59				22:07		
Potential sun hours	227			262			365		429	515	539	
Total, worst case		1771		402			440					
Sun reduction		0,13		0,22			0,37					
Oper. time red.		0,93		0,93			0,93					
Wind dir. red.		0,17		0,73			0,95					
Total reduction		0,02		0,15			0,32					
Total, real		37		60			143					

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)

SHADOW - Calendar

Shadow receptor: BD - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December			
1	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	08:01 (13) 08:32 (13)	07:34 16:38	08:25 (12) 08:51 (12)	08:39 15:43	11:00 (11) 12:50 (10)
2	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57	08:00 (13) 08:31 (13)	07:36 16:36	08:24 (12) 08:50 (12)	08:41 15:42	10:59 (11) 12:50 (10)
3	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	08:00 (13) 08:31 (13)	07:38 16:33	08:25 (12) 08:50 (12)	08:43 15:41	10:59 (11) 12:50 (10)
4	04:29 22:24	05:21 21:35	06:27 20:15	07:31 18:51	08:01 (13) 08:31 (13)	07:41 16:31	08:25 (12) 08:49 (12)	08:44 15:40	10:59 (11) 12:51 (10)
5	04:30 22:24	05:23 21:33	06:29 20:12	07:33 18:48	08:03 (13) 08:30 (13)	07:43 16:29	08:26 (12) 08:49 (12)	08:46 15:39	10:59 (11) 12:51 (10)
6	04:31 22:23	05:25 21:30	06:31 20:10	07:35 18:46	08:05 (13) 08:28 (13)	07:45 16:26	08:26 (12) 08:48 (12)	08:48 15:39	10:58 (11) 12:51 (10)
7	04:32 22:22	05:28 21:28	06:34 20:07	07:37 18:43	08:07 (13) 08:27 (13)	07:47 16:24	08:27 (12) 08:48 (12)	08:49 15:38	10:59 (11) 12:51 (10)
8	04:33 22:21	05:30 21:26	06:36 20:04	07:40 18:40	08:10 (13) 08:26 (13)	07:50 16:22	08:29 (12) 08:47 (12)	08:51 15:37	10:59 (11) 12:52 (10)
9	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	08:12 (13) 08:24 (13)	07:52 16:20	08:29 (12) 08:45 (12)	08:52 15:37	11:00 (11) 12:53 (10)
10	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:35	08:14 (13) 08:21 (13)	07:54 16:18	08:32 (12) 12:28 (10)	08:54 15:36	11:00 (11) 12:53 (10)
11	04:37 22:18	05:36 21:18	06:42 19:56	07:46 18:32	08:16 (13) 08:17 (13)	07:57 16:16	08:34 (12) 12:31 (10)	08:55 15:36	11:00 (11) 12:53 (10)
12	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29		07:59 16:14	12:11 (10) 12:34 (10)	08:56 15:35	11:00 (11) 12:53 (10)
13	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:26		08:01 16:12	12:09 (10) 12:35 (10)	08:57 15:35	11:00 (11) 12:53 (10)
14	04:42 22:14	05:42 21:11	06:48 19:47	07:53 18:24		08:03 16:10	12:08 (10) 15:11 (1)	08:59 15:35	11:01 (11) 12:55 (10)
15	04:43 22:12	05:45 21:08	06:50 19:44	07:55 18:21		08:06 16:08	12:06 (10) 15:13 (1)	09:00 15:35	11:02 (11) 12:55 (10)
16	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:18		08:08 16:06	12:06 (10) 15:15 (1)	09:01 15:35	11:02 (11) 12:55 (10)
17	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16		08:10 16:04	12:06 (10) 15:17 (1)	09:02 15:35	11:02 (11) 12:56 (10)
18	04:48 22:08	05:51 21:01	06:57 19:36	08:02 18:13		08:12 16:02	12:05 (10) 15:17 (1)	09:02 15:35	11:03 (11) 12:56 (10)
19	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10		08:15 16:00	12:05 (10) 15:18 (1)	09:03 15:35	11:03 (11) 12:56 (10)
20	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08		08:17 15:59	12:04 (10) 15:18 (1)	09:04 15:36	11:03 (11) 12:57 (10)
21	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05		08:19 15:57	12:04 (10) 15:17 (1)	09:05 15:36	11:04 (11) 12:57 (10)
22	04:55 22:01	06:00 20:50	07:05 19:25	08:11 08:25 (13)	08:21 08:11 (13)	08:21 15:55	12:04 (10) 15:14 (1)	09:05 15:36	11:04 (11) 12:57 (10)
23	04:57 21:59	06:02 20:48	07:07 19:22	08:13 08:28 (13)	08:23 09:41 (12)	08:23 15:54	12:03 (10) 15:12 (1)	09:06 15:37	11:05 (11) 12:59 (10)
24	04:59 21:58	06:04 20:45	07:10 19:19	08:15 08:29 (13)	08:25 09:44 (12)	08:25 15:52	12:04 (10) 15:11 (1)	09:06 15:37	11:06 (11) 12:59 (10)
25	05:01 21:56	06:06 20:42	07:12 19:16	08:18 08:30 (13)	08:27 08:46 (12)	08:27 15:51	11:04 (11) 15:09 (1)	09:06 15:38	11:06 (11) 12:59 (10)
26	05:03 21:54	06:08 20:40	07:14 19:13	08:19 08:31 (13)	08:29 08:47 (12)	08:29 15:49	11:03 (11) 15:08 (1)	09:07 15:39	11:06 (11) 12:59 (10)
27	05:05 21:52	06:10 20:37	07:16 19:11	08:21 08:31 (13)	08:26 (12) 08:48 (12)	08:31 15:48	11:02 (11) 12:48 (10)	09:07 15:40	11:07 (11) 13:00 (11)
28	05:07 21:50	06:12 20:34	07:18 19:08	08:23 08:32 (13)	08:25 (12) 08:49 (12)	08:33 15:47	11:00 (11) 12:48 (10)	09:07 15:41	11:07 (11) 13:01 (10)
29	05:09 21:48	06:14 20:32	07:20 19:05	08:24 08:32 (13)	08:25 (12) 08:50 (12)	08:35 15:45	11:00 (11) 12:48 (10)	09:07 15:42	11:08 (11) 13:01 (10)
30	05:11 21:46	06:17 20:29	07:22 19:02	08:01 (13) 08:32 (13)	07:29 16:43	08:37 08:49 (12)	10:59 (11) 12:48 (10)	09:07 15:43	11:08 (11) 13:01 (10)
31	05:13 21:44	06:19 20:26		07:31 16:40	08:24 (12) 08:50 (12)	15:44		09:07 15:44	11:09 (11) 13:02 (10)
Potential sun hours	539	475	386	321		241		207	
Total, worst case			217		409		1199		2279
Sun reduction			0,43		0,31		0,15		0,13
Oper. time red.			0,93		0,93		0,93		0,93
Wind dir. red.			0,95		0,86		0,29		0,14
Total reduction			0,38		0,25		0,04		0,02
Total, real			83		100		51		39

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BE - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:07 15:45	08:27 16:46	20 09:50 (10)	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:15 21:42	06:21 20:23	07:25 18:59	07:34 16:38	08:39 15:43	09:27 (10) 18 09:45 (10)
2	09:06 15:47	08:25 16:48	17 09:51 (10)	07:17 17:54	06:51 20:03	05:31 21:10	04:32 22:10	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42	09:28 (10) 16 09:44 (10)
3	09:06 15:48	08:23 16:51	14 09:53 (10)	07:14 17:57	06:48 20:06	05:29 21:12	04:30 22:12	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41	09:30 (10) 14 09:44 (10)
4	09:06 15:49	08:21 16:53	7 09:57 (10)	07:12 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:29 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:40	09:31 (10) 12 09:43 (10)
5	09:05 15:51	08:19 16:55		07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:15	04:30 22:24	05:23 21:33	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39	09:33 (10) 9 09:42 (10)
6	09:04 15:52	09:50 (10) 09:54 (10)		08:17 18:03	07:06 20:12	05:22 21:19	04:27 22:16	04:31 22:23	05:25 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39	09:36 (10) 4 09:40 (10)
7	09:04 15:54	09:48 (10) 09:57 (10)		08:14 17:00	07:03 18:06	05:19 20:14	04:26 21:21	04:32 22:17	05:28 21:28	06:34 20:07	07:38 18:43	07:48 16:24	8 09:26 (10) 09:34 (10)	08:49 15:38
8	09:03 15:56	09:47 (10) 09:59 (10)		08:12 17:03	07:01 18:08	05:17 20:17	04:25 21:23	04:33 22:18	05:30 21:26	06:36 20:04	07:40 18:40	07:50 16:22	09:24 (10) 09:38 (10)	08:51 15:37
9	09:02 15:57	09:46 (10) 09:59 (10)		08:10 17:05	06:58 18:10	05:15 20:19	04:25 21:25	04:35 22:19	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	09:21 (10) 09:39 (10)	08:52 15:37
10	09:01 15:59	09:45 (10) 10:01 (10)		08:07 17:07	06:55 18:12	05:13 20:21	04:24 21:27	04:36 22:21	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	09:21 (10) 09:41 (10)	08:54 15:36
11	09:00 16:01	09:45 (10) 10:03 (10)		08:05 17:10	06:52 18:15	05:10 20:23	04:23 21:29	04:37 22:22	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	09:19 (10) 09:41 (10)	08:55 15:36
12	08:59 16:03	09:44 (10) 10:03 (10)		08:03 17:12	06:50 18:17	05:08 20:25	04:23 21:31	04:39 22:22	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	09:19 (10) 09:43 (10)	08:56 15:35
13	08:58 16:05	09:44 (10) 10:05 (10)		08:00 17:14	06:47 18:19	05:06 20:28	04:22 21:34	04:40 22:23	05:40 21:14	06:46 19:50	07:51 18:26	08:01 16:12	09:18 (10) 09:43 (10)	08:58 15:35
14	08:57 16:07	09:44 (10) 10:05 (10)		07:58 17:17	06:44 18:21	05:04 20:30	04:22 21:36	04:42 22:24	05:42 21:11	06:48 19:47	07:53 18:24	08:04 16:10	09:18 (10) 09:44 (10)	08:59 15:35
15	08:56 16:08	09:44 (10) 10:07 (10)		07:56 17:19	06:41 18:24	05:02 20:32	04:21 21:38	04:43 22:25	05:45 21:08	06:51 19:44	07:55 18:21	08:06 16:08	09:19 (10) 09:45 (10)	09:00 15:35
16	08:55 16:10	09:43 (10) 10:07 (10)		07:53 17:22	06:39 18:26	05:00 20:34	04:21 21:40	04:45 22:25	05:47 21:06	06:53 19:42	07:57 18:18	08:08 16:06	09:18 (10) 09:45 (10)	09:01 15:35
17	08:53 16:13	09:43 (10) 10:08 (10)		07:51 17:24	06:36 18:28	04:58 20:37	04:21 21:42	04:47 22:26	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:18 (10) 09:46 (10)	09:02 15:35
18	08:52 16:15	09:44 (10) 10:09 (10)		07:48 17:26	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:27	04:48 22:08	05:51 21:01	06:57 18:13	08:02 16:02	09:18 (10) 09:45 (10)	09:03 15:35
19	08:50 16:17	09:44 (10) 10:10 (10)		07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	09:19 (10) 09:46 (10)	09:03 15:35
20	08:49 16:19	09:43 (10) 10:10 (10)		07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	09:19 (10) 09:46 (10)	09:04 15:36
21	08:47 16:21	09:43 (10) 10:10 (10)		07:41 17:33	06:25 18:37	05:59 20:45	04:50 21:50	04:21 22:28	04:54 22:03	05:57 20:53	07:03 19:28	08:09 18:05	09:19 (10) 09:46 (10)	09:05 15:36
22	08:46 16:23	09:44 (10) 10:11 (10)		07:38 17:36	06:22 18:39	05:57 20:48	04:48 21:52	04:21 22:28	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	09:20 (10) 09:46 (10)	09:05 15:36
23	08:44 16:25	09:44 (10) 10:11 (10)		07:35 17:38	06:19 18:41	05:54 20:50	04:46 21:53	04:21 22:28	04:57 22:00	06:02 20:48	07:07 19:22	08:13 18:00	09:21 (10) 09:47 (10)	09:06 15:37
24	08:42 16:28	09:44 (10) 10:11 (10)		07:33 17:40	06:16 18:44	05:51 20:52	04:45 21:55	04:22 22:28	04:59 21:58	06:04 20:45	07:10 19:19	08:15 17:58	09:21 (10) 09:46 (10)	09:06 15:38
25	08:41 16:30	09:44 (10) 10:12 (10)		07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:42	07:12 19:16	08:18 17:55	09:21 (10) 09:46 (10)	09:07 15:38
26	08:39 16:32	09:45 (10) 10:12 (10)		07:28 17:45	06:11 18:48	05:46 20:56	04:41 21:59	04:22 22:28	05:03 21:54	06:08 20:40	07:14 19:13	08:20 17:53	09:23 (10) 09:46 (10)	09:07 15:39
27	08:37 16:34	09:46 (10) 10:12 (10)		07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28	05:05 21:52	06:10 20:37	07:16 19:11	08:22 17:50	09:23 (10) 09:46 (10)	09:07 15:40
28	08:35 16:37	09:46 (10) 10:12 (10)		07:22 17:50	06:05 18:52	05:41 21:01	04:38 22:02	04:24 22:27	05:07 21:50	06:12 20:34	07:18 19:08	08:25 17:48	09:24 (10) 09:45 (10)	09:07 15:41
29	08:33 16:39	09:46 (10) 10:11 (10)			07:02 19:55	05:39 21:03	04:37 22:04	04:24 22:27	05:09 21:48	06:15 20:32	07:20 19:05	08:35 17:45	09:24 (10) 09:45 (10)	09:07 15:42
30	08:31 16:41	09:47 (10) 10:11 (10)			06:59 19:57	05:36 21:05	04:35 22:06	04:25 22:27	05:11 21:46	06:17 20:29	07:22 19:02	08:37 17:43	09:26 (10) 09:45 (10)	09:07 15:43
31	08:29 16:44	09:49 (10) 10:10 (10)			06:57 19:59		04:34 22:07	05:13 21:44	06:19 20:26		07:31 16:40			09:07 15:44
Potential sun hours	227	262			365	429	516	539	539	475	386	321	241	207
Total, worst case	568	58											555	73
Sun reduction	0,13	0,22											0,15	0,13
Oper. time red.	0,93	0,93											0,93	0,93
Wind dir. red.	0,56	0,56											0,56	0,56
Total reduction	0,07	0,12											0,08	0,07
Total, real	39	7											45	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: BF - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:07 15:46	08:27 16:46	07:20 17:52	07:49 (4) 08:07 (4)	06:54 20:01	05:34 21:08	04:33 22:09	04:26 22:26	05:15 21:42	06:21 20:24	07:25 19:00	07:34 16:38	08:14 (3) 08:18 (3)	08:39 15:43
2	09:06 15:47	08:25 16:49	07:17 17:54	07:48 (4) 08:07 (4)	06:51 20:04	05:31 21:10	04:32 22:10	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36		08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:57	07:47 (4) 08:07 (4)	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:34		08:43 15:41
4	09:06 15:50	08:21 16:53	07:12 17:59	07:47 (4) 08:08 (4)	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:25	05:22 21:35	06:28 20:15	07:31 18:51	08:29 (4) 08:38 (4)	07:41 16:31	08:45 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	07:47 (4) 08:07 (4)	06:43 20:10	05:24 21:16	04:28 22:15	04:30 22:24	05:24 21:33	06:30 20:13	07:33 18:49	08:26 (4) 08:40 (4)	07:43 16:29	08:46 15:40
6	09:04 15:53	08:17 16:58	07:06 18:04	07:47 (4) 08:06 (4)	06:40 20:12	05:22 21:19	04:31 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:36 18:46	08:24 (4) 08:41 (4)	07:45 16:27	08:48 15:39
7	09:04 15:54	08:14 17:00	07:04 18:06	07:48 (4) 08:05 (4)	06:37 20:15	05:20 21:21	04:27 22:17	04:32 22:22	05:28 21:28	06:34 20:07	07:38 18:43	08:24 (4) 08:42 (4)	07:48 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	07:48 (4) 08:04 (4)	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:26	06:36 20:04	07:40 18:40	08:23 (4) 08:42 (4)	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	07:51 (4) 08:02 (4)	06:32 20:19	05:15 21:25	04:25 22:20	05:32 22:20	06:38 21:23	07:42 20:01	08:52 18:38	08:22 (4) 08:42 (4)	07:52 16:20	08:52 15:37
10	09:01 15:59	08:08 17:08	06:55 18:13	07:54 (4) 07:58 (4)	06:29 20:21	05:13 21:27	04:24 22:21	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	08:21 (4) 08:42 (4)	07:55 16:18	08:54 15:36
11	09:00 16:01	08:05 17:10	06:53 18:15		06:26 20:23	05:11 21:29	04:24 22:22	04:38 22:18	05:36 21:19	06:42 19:56	07:46 18:32	08:22 (4) 08:42 (4)	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17		06:24 20:26	05:08 21:32	04:23 22:22	04:39 22:17	05:38 21:16	06:44 19:53	07:49 18:29	08:22 (4) 08:41 (4)	07:59 16:14	08:56 15:36
13	08:58 16:05	08:01 17:15	06:47 18:19		06:21 20:28	05:06 21:34	04:23 22:23	04:41 22:15	05:41 21:14	06:47 19:50	07:51 18:27	08:22 (4) 08:40 (4)	08:01 16:12	08:58 15:35
14	08:57 16:07	07:58 17:17	06:44 18:22		06:18 20:30	05:04 21:36	04:22 22:24	04:42 22:11	05:43 21:11	06:49 19:47	07:53 18:24	08:24 (4) 09:23 (3)	08:04 16:10	08:59 15:35
15	08:56 16:09	07:56 17:19	06:42 18:24		06:15 20:32	05:02 21:38	04:22 22:25	04:44 22:13	05:45 21:09	06:51 19:45	07:55 18:21	08:26 (4) 09:25 (3)	08:06 16:08	09:00 15:35
16	08:55 16:11	07:53 17:22	06:39 18:26		06:13 20:34	05:00 21:40	04:21 22:26	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:28 (4) 09:27 (3)	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28		06:10 20:37	04:58 21:42	04:21 22:26	04:47 22:10	05:49 21:04	06:55 19:39	08:00 18:16	09:07 (3) 09:28 (3)	08:10 16:04	09:02 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30		06:07 20:39	04:56 21:44	04:21 22:27	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	09:05 (3) 09:29 (3)	08:13 16:02	09:03 15:35
19	08:50 16:17	07:46 17:29	06:30 18:33		06:05 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	09:04 (3) 09:29 (3)	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35		06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:31	08:06 18:08	09:04 (3) 09:30 (3)	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37		05:59 20:46	04:50 21:50	04:21 22:28	04:54 22:03	05:58 20:53	07:03 19:28	08:09 18:06	09:03 (3) 09:30 (3)	08:19 15:57	09:05 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39		05:57 20:48	04:48 21:52	04:21 22:28	04:56 22:01	06:00 20:51	07:06 19:25	08:11 18:03	09:03 (3) 09:30 (3)	08:21 15:56	09:05 15:37
23	08:44 16:26	07:36 17:38	06:19 18:42		05:54 20:50	04:47 21:54	04:22 22:28	04:58 22:00	06:02 20:48	07:08 19:22	08:13 18:00	09:03 (3) 09:30 (3)	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44		05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:58	06:04 20:45	07:10 19:19	08:15 17:58	09:03 (3) 09:30 (3)	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46		05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:43	07:12 19:16	07:18 16:55	08:03 (3) 08:29 (3)	08:28 15:51	09:07 15:38
26	08:39 16:32	07:28 17:45	06:11 18:48		05:46 20:57	04:42 21:59	04:23 22:28	05:03 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:04 (3) 08:29 (3)	08:30 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50		05:44 20:59	04:40 22:01	04:23 22:28	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:04 (3) 08:28 (3)	08:32 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53		05:41 21:01	04:39 22:03	04:24 22:28	05:07 21:50	06:13 20:35	07:18 19:08	07:25 16:48	08:05 (3) 08:27 (3)	08:34 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55		05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:06 (3) 08:25 (3)	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57		05:36 21:05	04:36 22:06	04:25 22:27	05:11 21:46	06:17 20:29	07:23 19:02	07:29 16:43	08:08 (3) 08:24 (3)	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		05:34 22:07	04:34	05:13	06:19	07:32	08:19	16:41	08:10 (3) 08:22 (3)		09:07 15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241			207
Total, worst case		430	165							599		4		
Sun reduction		0,22	0,37							0,31		0,15		
Oper. time red.		0,93	0,93							0,93		0,93		
Wind dir. red.		0,82	0,92							0,85		0,81		
Total reduction		0,17	0,31							0,24		0,12		
Total, real		73	52							145		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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BG - 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
0 1 Sum
4 076 4 076 8 152

January		February		March		April		May		June	
1	09:07	09:51 (2)	08:27	07:20	08:08 (5)	06:54	07:20 (1)	05:34	04:33		
	15:46	10:04 (2)	16:46	17:52	20 08:28 (5)	20:01	07:34 (1)	21:08	22:09		
2	09:06	09:51 (2)	08:25	07:17	08:09 (5)	06:51	07:17 (1)	05:31	04:32		
	15:47	10:06 (2)	16:49	17:54	17 08:26 (5)	20:04	07:33 (1)	21:10	22:10		
3	09:06	09:51 (2)	08:23	07:14	08:10 (5)	06:48	07:16 (1)	05:29	04:31		
	15:48	10:07 (2)	16:51	17:57	14 08:24 (5)	20:06	07:32 (1)	21:12	22:12		
4	09:06	09:50 (2)	08:21	07:12	07:54 (3)	06:46	07:17 (1)	05:27	04:30		
	15:50	10:07 (2)	16:53	17:59	22 08:23 (5)	20:08	07:32 (1)	21:14	22:13		
5	09:05	09:51 (2)	08:19	07:09	07:50 (3)	06:43	07:18 (1)	05:24	04:29		
	15:51	10:09 (2)	16:56	18:01	18 08:08 (3)	20:10	07:31 (1)	21:16	22:15		
6	09:04	09:51 (2)	08:17	07:06	07:47 (3)	06:40	07:18 (1)	05:22	04:28		
	15:53	10:10 (2)	16:58	18:04	23 08:10 (3)	20:12	07:29 (1)	21:19	22:16		
7	09:04	09:51 (2)	08:14	07:04	07:45 (3)	06:37	07:22 (1)	05:20	04:27		
	15:54	10:11 (2)	17:00	18:06	26 08:11 (3)	20:15	07:26 (1)	21:21	22:17		
8	09:03	09:50 (2)	08:12	07:01	07:43 (3)	06:35		05:17	04:26		
	15:56	10:11 (2)	17:03	18:08	29 08:12 (3)	20:17		21:23	22:18		
9	09:02	09:50 (2)	08:10	06:58	07:43 (3)	06:32		05:15	04:25		
	15:58	10:12 (2)	17:05	18:10	31 08:14 (3)	20:19		21:25	22:19		
10	09:01	09:51 (2)	08:08	06:55	07:42 (3)	06:29		05:13	04:24		
	15:59	10:13 (2)	17:08	18:13	32 08:14 (3)	20:21		21:27	22:21		
11	09:00	09:51 (2)	08:05	06:53	07:41 (3)	06:26		05:11	04:24		
	16:01	10:14 (2)	17:10	18:15	34 08:15 (3)	20:23		21:29	22:22		
12	08:59	09:51 (2)	08:03	06:50	07:40 (3)	06:24		05:08	04:23		
	16:03	10:14 (2)	17:12	18:17	35 08:15 (3)	20:26		21:31	22:22		
13	08:58	09:51 (2)	08:00	06:47	07:39 (3)	06:21		05:06	04:23		
	16:05	10:15 (2)	17:15	18:19	35 08:14 (3)	20:28		21:34	22:23		
14	08:57	09:51 (2)	07:58	06:44	07:39 (3)	06:18		05:04	04:22		
	16:07	10:15 (2)	17:17	18:22	36 08:15 (3)	20:30		21:36	22:24		
15	08:56	09:52 (2)	07:56	06:42	07:12 (4)	06:15		05:02	04:22		
	16:09	10:16 (2)	17:19	18:24	39 08:15 (3)	20:32		21:38	22:25		
16	08:55	09:51 (2)	07:53	06:39	07:07 (4)	06:13		05:00	04:21		
	16:11	10:16 (2)	17:22	18:26	48 08:14 (3)	20:34		21:40	22:25		
17	08:53	09:51 (2)	07:51	06:36	07:04 (4)	06:10		04:58	04:21		
	16:13	10:16 (2)	17:24	18:28	52 08:13 (3)	20:37		21:42	22:26		
18	08:52	09:53 (2)	07:48	08:18 (5)	06:33	07:02 (4)	06:07	04:56	04:21		
	16:15	10:17 (2)	17:27	3 08:21 (5)	18:30	08:13 (3)	20:39	21:44	22:27		
19	08:50	09:53 (2)	07:46	08:14 (5)	06:30	07:01 (4)	06:05	04:54	04:21		
	16:17	10:17 (2)	17:29	11 08:25 (5)	18:33	08:12 (3)	20:41	21:46	22:27		
20	08:49	09:53 (2)	07:43	08:12 (5)	06:28	07:01 (4)	06:02	04:52	04:21		
	16:19	10:17 (2)	17:31	15 08:27 (5)	18:35	08:11 (3)	20:43	21:48	22:27		
21	08:47	09:53 (2)	07:41	08:10 (5)	06:25	07:00 (4)	05:59	04:50	04:21		
	16:21	10:17 (2)	17:34	18 08:28 (5)	18:37	08:10 (3)	20:45	21:50	22:28		
22	08:46	09:54 (2)	07:38	08:09 (5)	06:22	06:59 (4)	05:57	04:48	04:21		
	16:23	10:17 (2)	17:36	20 08:29 (5)	18:39	08:08 (3)	20:48	21:52	22:28		
23	08:44	09:55 (2)	07:36	08:09 (5)	06:19	06:59 (4)	05:54	04:47	04:22		
	16:26	10:17 (2)	17:38	21 08:30 (5)	18:42	08:06 (3)	20:50	21:54	22:28		
24	08:42	09:55 (2)	07:33	08:08 (5)	06:16	06:58 (4)	05:52	04:45	04:22		
	16:28	10:17 (2)	17:41	22 08:30 (5)	18:44	08:04 (3)	20:52	21:55	22:28		
25	08:41	09:56 (2)	07:30	08:05 (5)	06:14	06:59 (4)	05:49	04:43	04:22		
	16:30	10:17 (2)	17:43	22 08:30 (5)	18:46	08:01 (3)	20:54	21:57	22:28		
26	08:39	09:57 (2)	07:28	08:07 (5)	06:11	06:59 (4)	05:46	04:42	04:23		
	16:32	10:16 (2)	17:45	23 08:30 (5)	18:48	07:56 (3)	20:57	21:59	22:28		
27	08:37	09:59 (2)	07:25	08:08 (5)	06:08	07:00 (4)	05:44	04:40	04:23		
	16:35	10:16 (2)	17:48	22 08:30 (5)	18:50	07:20 (4)	20:59	22:01	22:28		
28	08:35	10:01 (2)	07:22	08:08 (5)	06:05	07:00 (4)	05:41	04:39	04:24		
	16:37	10:14 (2)	17:50	21 08:29 (5)	18:53	07:18 (4)	21:01	22:02	22:27		
29	08:33	10:03 (2)		07:02	07:28 (1)	05:39		04:37	04:25		
	16:39	10:13 (2)		19:55	17 08:15 (4)	21:03		22:04	22:27		
30	08:31			07:00	07:26 (1)	05:36		04:36	04:25		
	16:42			19:57	15 08:13 (4)	21:05		22:06	22:27		
31	08:29			06:57	07:23 (1)			04:34			
	16:44			19:59	11 07:34 (1)			22:07			
Potential sun hours	227		262		365		429		515		539
Total, worst case		594		198		1023		89			
Sun reduction		0,13		0,22		0,37		0,46			
Oper. time red.		0,93		0,93		0,93		0,93			
Wind dir. red.		0,53		0,88		0,94		1,00			
Total reduction		0,06		0,18		0,32		0,43			
Total, real		38		36		329		38			

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)

SHADOW - Calendar

Shadow receptor: BG - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25	08:19 (3)	07:34
	22:26	21:42	20:24	19:00	08:54 (3)	16:38
2	04:27	05:17	06:23	07:27	08:18 (3)	07:36
	22:26	21:39	20:21	18:57	08:53 (3)	16:36
3	04:28	05:19	06:25	07:29	08:19 (3)	07:38
	22:25	21:37	20:18	18:54	08:53 (3)	16:34
4	04:29	05:22	06:27	07:31	08:20 (3)	07:41
	22:24	21:35	20:15	18:51	08:52 (3)	16:31
5	04:30	05:24	06:30	07:18 (1)	07:33	08:20 (3)
	22:24	21:33	20:13	07:22 (1)	18:49	08:50 (3)
6	04:31	05:26	06:32	07:15 (1)	07:35	08:21 (3)
	22:23	21:30	20:10	07:25 (1)	18:46	08:48 (3)
7	04:32	05:28	06:34	07:13 (1)	07:38	08:23 (3)
	22:22	21:28	20:07	07:26 (1)	18:43	08:47 (3)
8	04:34	05:30	06:36	07:11 (1)	07:40	08:24 (3)
	22:21	21:26	20:04	07:26 (1)	18:40	08:45 (3)
9	04:35	05:32	06:38	07:11 (1)	07:42	08:26 (3)
	22:20	21:23	20:01	07:27 (1)	18:38	08:54 (5)
10	04:36	05:34	06:40	07:10 (1)	07:44	08:30 (3)
	22:19	21:21	19:59	07:26 (1)	18:35	08:58 (5)
11	04:38	05:36	06:42	07:12 (1)	07:46	08:44 (5)
	22:18	21:18	19:56	07:26 (1)	18:32	09:00 (5)
12	04:39	05:38	06:44	07:14 (1)	07:49	08:43 (5)
	22:17	21:16	19:53	07:25 (1)	18:29	09:01 (5)
13	04:41	05:41	06:47	07:16 (1)	07:51	08:41 (5)
	22:15	21:14	19:50	08:02 (4)	18:27	09:01 (5)
14	04:42	05:43	06:49	07:18 (1)	07:53	08:41 (5)
	22:14	21:11	19:47	08:05 (4)	18:24	09:02 (5)
15	04:44	05:45	06:51	07:50 (4)	07:55	08:40 (5)
	22:13	21:09	19:45	08:07 (4)	18:21	09:02 (5)
16	04:45	05:47	06:53	07:48 (4)	07:57	08:39 (5)
	22:11	21:06	19:42	08:08 (4)	18:19	09:02 (5)
17	04:47	05:49	06:55	07:48 (4)	08:00	08:40 (5)
	22:10	21:04	19:39	08:09 (4)	18:16	09:02 (5)
18	04:49	05:51	06:57	07:47 (4)	08:02	08:39 (5)
	22:08	21:01	19:36	08:48 (3)	18:13	09:01 (5)
19	04:50	05:53	06:59	07:46 (4)	08:04	08:39 (5)
	22:06	20:58	19:33	08:51 (3)	18:11	09:00 (5)
20	04:52	05:56	07:01	07:45 (4)	08:06	08:41 (5)
	22:05	20:56	19:31	08:52 (3)	18:08	09:00 (5)
21	04:54	05:58	07:03	07:45 (4)	08:09	08:41 (5)
	22:03	20:53	19:28	08:53 (3)	18:06	08:58 (5)
22	04:56	06:00	07:06	07:44 (4)	08:11	08:43 (5)
	22:01	20:51	19:25	08:54 (3)	18:03	08:57 (5)
23	04:58	06:02	07:08	07:44 (4)	08:13	08:45 (5)
	22:00	20:48	19:22	08:55 (3)	18:00	08:54 (5)
24	05:00	06:04	07:10	07:44 (4)	08:15	08:25
	21:58	20:45	19:19	08:55 (3)	17:58	15:53
25	05:01	06:06	07:12	07:45 (4)	07:18	08:28
	21:56	20:43	19:16	08:55 (3)	16:55	15:51
26	05:03	06:08	07:14	07:46 (4)	07:20	08:30
	21:54	20:40	19:14	08:55 (3)	16:53	15:50
27	05:05	06:10	07:16	07:48 (4)	07:22	08:32
	21:52	20:37	19:11	08:56 (3)	16:50	15:48
28	05:07	06:13	07:18	07:51 (4)	07:25	08:34
	21:50	20:35	19:08	08:56 (3)	16:48	15:47
29	05:09	06:15	07:20	08:19 (3)	07:27	08:35
	21:48	20:32	19:05	08:55 (3)	16:45	15:46
30	05:11	06:17	07:23	08:19 (3)	07:29	08:37
	21:46	20:29	19:02	08:55 (3)	16:43	15:45
31	05:13	06:19		07:32		
	21:44	20:26		16:41		15:44
Potential sun hours	538	474	386	321	241	207
Total, worst case			802	521	386	359
Sun reduction			0,43	0,31	0,15	0,13
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			0,96	0,90	0,53	0,53
Total reduction			0,38	0,26	0,08	0,06
Total, real			308	134	29	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: BH - 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
0 1 Sum
4 076 4 076 8 152

January		February		March		April		May		June	
1	09:07	09:59 (7)	08:27	07:20	08:04 (10)	06:54	05:34	04:33			
	15:46	13:39 (3)	16:46	17:52	08:29 (10)	20:01	21:08	22:09			
2	09:06	09:59 (7)	08:25	07:17	08:04 (10)	06:51	05:31	04:32			
	15:47	13:39 (3)	16:48	17:54	08:28 (10)	20:03	21:10	22:10			
3	09:06	09:59 (7)	08:23	07:14	08:04 (10)	06:48	05:29	04:30			
	15:48	13:39 (3)	16:51	17:57	08:27 (10)	20:06	21:12	22:12			
4	09:06	09:59 (7)	08:21	07:12	08:05 (10)	06:46	05:26	04:29			
	15:50	13:38 (3)	16:53	17:59	08:27 (10)	20:08	21:14	22:13			
5	09:05	10:00 (7)	08:19	07:09	08:06 (10)	06:43	05:24	04:28			
	15:51	13:39 (3)	16:55	18:01	08:26 (10)	20:10	21:16	22:15			
6	09:04	10:00 (7)	08:17	07:06	08:07 (10)	06:40	05:22	04:27			
	15:53	13:39 (3)	16:58	18:03	08:24 (10)	20:12	21:19	22:16			
7	09:04	10:01 (7)	08:14	07:03	08:09 (10)	06:37	05:19	04:26			
	15:54	13:39 (3)	17:00	18:06	08:21 (10)	20:14	21:21	22:17			
8	09:03	10:01 (7)	08:12	07:01	08:13 (10)	06:34	05:17	04:26			
	15:56	13:38 (3)	17:03	18:08	08:16 (10)	20:17	21:23	22:18			
9	09:02	10:01 (7)	08:10	06:58		06:32	05:15	04:25			
	15:57	13:36 (3)	17:05	18:10		20:19	21:25	22:19			
10	09:01	10:01 (7)	08:08	06:55		06:29	05:13	04:24			
	15:59	13:35 (3)	17:07	18:12		20:21	21:27	22:21			
11	09:00	10:02 (7)	08:05	06:52		06:26	05:10	04:23			
	16:01	12:02 (4)	17:10	18:15		20:23	21:29	22:22			
12	08:59	10:02 (7)	08:03	06:50		06:23	05:08	04:23			
	16:03	11:59 (4)	17:12	18:17		20:26	21:31	22:22			
13	08:58	10:03 (7)	08:00	06:47		06:21	05:06	04:22			
	16:05	12:25 (7)	17:15	18:19		20:28	21:34	22:23			
14	08:57	10:03 (7)	07:58	06:44		06:18	05:04	04:22			
	16:07	12:25 (7)	17:17	18:21		20:30	21:36	22:24			
15	08:56	10:04 (7)	07:56	06:41		06:15	05:02	04:22			
	16:09	12:25 (7)	17:19	18:24		20:32	21:38	22:25			
16	08:55	10:05 (7)	07:53	06:39		06:13	05:00	04:21			
	16:11	12:25 (7)	17:22	18:26		20:34	21:40	22:25			
17	08:53	10:05 (7)	07:51	06:36		06:10	04:58	04:21			
	16:13	12:24 (7)	17:24	18:28		20:37	21:42	22:26			
18	08:52	10:07 (7)	07:48	06:33		06:07	04:56	04:21			
	16:15	12:25 (7)	17:26	18:30		20:39	21:44	22:27			
19	08:50	10:08 (7)	07:46	06:30		06:05	04:54	04:21			
	16:17	12:24 (7)	17:29	18:33		20:41	21:46	22:27			
20	08:49	10:09 (7)	07:43	06:27	08:15 (10)	06:02	04:52	04:21			
	16:19	12:24 (7)	17:31	18:35	08:21 (10)	20:43	21:48	22:27			
21	08:47	10:10 (7)	07:41	06:25	08:11 (10)	05:59	04:50	04:21			
	16:21	12:22 (7)	17:33	18:37	08:24 (10)	20:45	21:50	22:28			
22	08:46	10:12 (7)	07:38	06:22	08:09 (10)	05:57	04:48	04:21			
	16:23	9 10:21 (7)	17:36	18:39	08:26 (10)	20:48	21:52	22:28			
23	08:44		07:35	06:19	08:07 (10)	05:54	04:47	04:21			
	16:25		17:38	18:41	08:27 (10)	20:50	21:53	22:28			
24	08:42		07:33	06:16	08:06 (10)	05:51	04:45	04:22			
	16:28		17:40	18:44	08:28 (10)	20:52	21:55	22:28			
25	08:41		07:30	06:13	08:05 (10)	05:49	04:43	04:22			
	16:30		17:43	18:46	08:29 (10)	20:54	21:57	22:28			
26	08:39		07:28	06:11	08:04 (10)	05:46	04:42	04:23			
	16:32		17:45	18:48	08:29 (10)	20:57	21:59	22:28			
27	08:37		07:25	06:08	08:04 (10)	05:44	04:40	04:23			
	16:34		17:47	18:50	08:29 (10)	20:59	22:01	22:28			
28	08:35		07:22	06:05	08:04 (10)	05:41	04:38	04:24			
	16:37		17:50	18:52	08:29 (10)	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	894		177	146							
Sun reduction	0,13		0,22	0,37							
Oper. time red.	0,93		0,93	0,93							
Wind dir. red.	0,33		0,88	0,88							
Total reduction	0,04		0,18	0,30							
Total, real	36		32	44							

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)

SHADOW - Calendar

Shadow receptor: BH - 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

0	1	Sum
4 076	4 076	8 152

	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	08:46 (10)	07:45
	22:23	21:30	20:10	18:46	10 08:56 (10)	16:27
7	04:32	05:28	06:34	07:38	08:43 (10)	07:48
	22:22	21:28	20:07	18:43	15 08:58 (10)	16:24
8	04:33	05:30	06:36	07:40	08:42 (10)	07:50
	22:21	21:26	20:04	18:40	18 09:00 (10)	16:22
9	04:35	05:32	06:38	07:42	08:40 (10)	07:52
	22:20	21:23	20:01	18:37	21 09:01 (10)	16:20
10	04:36	05:34	06:40	07:44	08:39 (10)	07:54
	22:19	21:21	19:59	18:35	22 09:01 (10)	16:18
11	04:37	05:36	06:42	07:46	08:39 (10)	07:57
	22:18	21:18	19:56	18:32	23 09:02 (10)	16:16
12	04:39	05:38	06:44	07:49	08:38 (10)	07:59
	22:17	21:16	19:53	18:29	24 09:02 (10)	16:14
13	04:40	05:40	06:46	07:51	08:37 (10)	08:01
	22:15	21:14	19:50	18:27	25 09:02 (10)	16:12
14	04:42	05:43	06:48	07:53	08:37 (10)	08:04
	22:14	21:11	19:47	18:24	25 09:02 (10)	16:10
15	04:43	05:45	06:51	07:55	08:37 (10)	08:06
	22:13	21:09	19:44	18:21	25 09:02 (10)	16:08
16	04:45	05:47	06:53	07:57	08:37 (10)	08:08
	22:11	21:06	19:42	18:19	24 09:01 (10)	16:06
17	04:47	05:49	06:55	08:00	08:38 (10)	08:10
	22:10	21:03	19:39	18:16	22 09:00 (10)	16:04
18	04:48	05:51	06:57	08:02	08:38 (10)	08:13
	22:08	21:01	19:36	18:13	21 08:59 (10)	16:02
19	04:50	05:53	06:59	08:04	08:38 (10)	08:15
	22:06	20:58	19:33	18:11	19 08:57 (10)	16:00
20	04:52	05:55	07:01	08:06	08:40 (10)	08:17
	22:05	20:56	19:30	18:08	16 08:56 (10)	15:59
21	04:54	05:57	07:03	08:09	08:42 (10)	08:19
	22:03	20:53	19:28	18:05	12 08:54 (10)	15:57
22	04:56	06:00	07:05	08:11	08:47 (10)	08:21
	22:01	20:50	19:25	18:03	2 08:49 (10)	15:55
23	04:57	06:02	07:08	08:13	08:23	09:45 (7)
	22:00	20:48	19:22	18:00	15:54	16 10:01 (7)
24	04:59	06:04	07:10	08:15	08:25	09:44 (7)
	21:58	20:45	19:19	17:58	15:52	18 10:02 (7)
25	05:01	06:06	07:12	07:18	08:27	09:43 (7)
	21:56	20:42	19:16	16:55	15:51	20 10:03 (7)
26	05:03	06:08	07:14	07:20	08:30	09:44 (7)
	21:54	20:40	19:14	16:53	15:50	20 10:04 (7)
27	05:05	06:10	07:16	07:22	08:32	09:44 (7)
	21:52	20:37	19:11	16:50	15:48	20 10:04 (7)
28	05:07	06:12	07:18	07:25	08:33	09:43 (7)
	21:50	20:34	19:08	16:48	15:47	22 10:05 (7)
29	05:09	06:15	07:20	07:27	08:35	09:43 (7)
	21:48	20:32	19:05	16:45	15:46	22 10:05 (7)
30	05:11	06:17	07:22	07:29	08:37	09:44 (7)
	21:46	20:29	19:02	16:43	15:44	27 11:41 (4)
31	05:13	06:19		07:31		09:07
	21:44	20:26		16:40		15:44
Potential sun hours	538	475	386	321	241	207
Total, worst case				324	201	2465
Sun reduction				0,31	0,15	0,13
Oper. time red.				0,93	0,93	0,93
Wind dir. red.				0,88	0,48	0,27
Total reduction				0,25	0,07	0,03
Total, real				81	14	78

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BI - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December				
1	09:06 15:45	08:27 16:46	07:19 17:52	06:54 20:01	44 17:54 (8)	05:34 18:38 (8)	04:33 21:07	04:26 22:08	05:15 22:26	06:21 21:41	07:24 20:23	17:38 (8) 18:59	07:33 46	08:39 18:24 (8)	16:38 15:43	
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	42 17:55 (8)	05:31 18:37 (8)	04:32 21:09	04:27 22:10	05:17 22:25	06:23 21:39	07:26 20:20	07:26 18:57	43	08:41 18:22 (8)	07:36 16:36	15:42
3	09:06 15:48	08:23 16:51	07:14 17:56	06:48 20:05	39 17:56 (8)	05:29 18:35 (8)	04:30 21:12	04:28 22:11	05:19 22:25	06:25 21:37	07:29 20:18	07:29 18:54	41	08:42 18:20 (8)	07:38 16:33	15:41
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:08	36 17:57 (8)	05:26 18:33 (8)	04:29 21:14	04:29 22:13	05:21 22:24	06:27 21:35	07:31 20:15	07:31 18:17 (8)	38	08:44 18:18 (8)	07:40 16:31	15:40
5	09:05 15:51	08:18 16:55	07:09 18:01	13 17:16 (8)	06:43 20:10	05:24 18:31 (8)	04:28 21:16	04:30 22:14	05:23 22:23	06:29 21:32	07:33 20:12	07:33 18:02 (8)	20	08:46 18:22 (8)	07:43 16:29	15:39
6	09:04 15:52	08:16 16:58	07:06 18:03	22 17:12 (8)	06:40 20:12	05:22 18:02 (8)	04:27 21:18	04:31 22:15	05:25 22:22	06:31 21:30	07:35 20:09	07:35 17:58 (8)	26	08:47 18:24 (8)	07:45 16:26	15:39
7	09:03 15:54	08:14 17:00	07:03 18:05	27 17:09 (8)	06:37 20:14	05:19 18:05 (8)	04:26 21:20	04:32 22:17	05:28 22:22	06:34 21:28	07:37 20:07	07:37 17:55 (8)	31	08:49 18:26 (8)	07:47 16:24	15:38
8	09:03 15:56	08:12 17:02	07:00 18:08	32 17:06 (8)	06:34 20:16	05:17 18:09 (8)	04:26 21:22	04:33 22:18	05:30 22:21	06:36 21:25	07:39 20:04	07:39 17:53 (8)	35	08:50 18:28 (8)	07:50 16:22	15:37
9	09:02 15:57	08:09 17:05	06:58 18:10	36 17:04 (8)	06:31 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:42 17:51 (8)	38	08:52 18:29 (8)	07:52 16:20	15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	40 17:02 (8)	06:29 20:21	05:12 21:27	04:24 22:20	04:36 22:18	05:34 21:20	06:40 19:58	07:44 18:34	07:44 17:49 (8)	41	08:53 18:30 (8)	07:54 16:18	15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	43 17:01 (8)	06:26 20:23	05:10 21:29	04:23 22:21	04:37 22:17	05:36 21:18	06:42 19:55	07:46 18:32	07:46 17:47 (8)	44	08:55 18:31 (8)	07:56 16:16	15:36
12	08:59 16:03	08:02 17:12	06:49 18:17	45 16:59 (8)	06:23 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:48 17:45 (8)	46	08:56 18:31 (8)	07:59 16:14	15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	47 16:58 (8)	06:21 20:27	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:50 18:26	07:50 17:44 (8)	48	08:57 18:32 (8)	08:01 16:12	15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	48 16:57 (8)	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:13	05:42 21:11	06:48 19:47	07:53 18:24	07:53 17:43 (8)	49	08:58 18:32 (8)	08:03 16:10	15:35
15	08:55 16:08	07:55 17:19	06:41 18:23	51 16:55 (8)	06:15 20:32	05:02 21:37	04:22 22:24	04:43 22:12	05:45 21:08	06:50 19:44	07:55 18:21	07:55 17:41 (8)	51	08:59 18:32 (8)	08:05 16:08	15:35
16	08:54 16:10	07:53 17:21	06:38 18:26	52 16:55 (8)	06:12 20:34	05:00 21:39	04:21 22:25	04:45 22:11	05:47 21:06	06:52 19:41	07:57 18:18	07:57 17:40 (8)	52	09:00 18:32 (8)	08:08 16:06	15:35
17	08:53 16:13	07:50 17:24	06:36 18:28	53 16:54 (8)	06:10 20:36	04:58 21:41	04:21 22:26	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	07:59 17:39 (8)	53	09:01 18:32 (8)	08:09 16:04	15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	54 16:53 (8)	06:07 20:38	04:56 21:43	04:21 22:26	04:48 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:02 17:39 (8)	53	09:02 18:32 (8)	08:10 16:02	15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	54 16:53 (8)	06:04 20:41	04:54 21:45	04:21 22:26	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:04 17:38 (8)	54	09:03 18:32 (8)	08:14 16:00	15:35
20	08:48 16:19	07:43 17:31	06:27 18:35	54 16:52 (8)	06:02 20:43	04:52 21:47	04:21 22:27	04:52 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:06 17:37 (8)	55	09:04 18:32 (8)	08:17 15:59	15:36
21	08:47 16:21	07:40 17:33	06:24 18:37	55 16:51 (8)	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:08 17:37 (8)	55	09:04 18:32 (8)	08:19 15:57	15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	55 16:52 (8)	05:57 20:47	04:48 21:51	04:21 22:27	04:56 22:01	05:59 20:50	07:05 19:25	08:11 18:03	08:11 17:37 (8)	55	09:05 18:32 (8)	08:21 15:55	15:36
23	08:44 16:25	07:35 17:38	06:19 18:41	55 16:51 (8)	05:54 20:50	04:46 21:53	04:21 22:27	04:57 21:59	06:02 20:47	07:07 19:22	08:13 18:00	08:13 17:37 (8)	54	09:05 18:31 (8)	08:23 15:54	15:37
24	08:42 16:28	07:33 17:40	06:16 18:43	54 16:51 (8)	05:51 20:52	04:45 21:55	04:22 22:28	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:15 17:36 (8)	55	09:06 18:31 (8)	08:25 15:52	15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	54 16:51 (8)	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:55	06:06 20:42	07:12 19:16	08:17 16:55	08:17 17:36 (8)	54	09:06 18:30 (8)	08:27 15:51	15:38
26	08:38 16:32	07:27 17:45	06:10 18:48	53 16:51 (8)	05:46 20:56	04:41 21:59	04:23 22:27	05:03 21:53	06:08 20:39	07:14 19:13	08:19 16:53	08:19 17:36 (8)	53	09:06 18:29 (8)	08:29 15:49	15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	52 16:52 (8)	05:44 20:58	04:40 22:00	04:23 22:27	05:05 21:51	06:10 20:37	07:16 19:10	08:21 16:50	08:21 17:36 (8)	52	09:07 18:28 (8)	08:31 15:48	15:40
28	08:35 16:37	07:22 17:49	06:05 18:52	51 16:52 (8)	05:41 21:01	04:38 22:02	04:24 22:27	05:07 21:49	06:12 20:34	07:18 19:08	08:24 16:48	08:24 17:36 (8)	51	09:07 18:27 (8)	08:33 15:47	15:41
29	08:33 16:39	07:02 19:54	05:59 18:52	50 17:52 (8)	05:39 21:03	04:37 22:04	04:24 22:27	05:09 21:47	06:14 20:31	07:20 19:05	08:25 16:45	08:25 17:37 (8)	50	09:07 18:27 (8)	08:35 15:46	15:42
30	08:31 16:41	06:59 19:57	05:59 18:40	50 17:52 (8)	05:36 21:05	04:35 22:05	04:25 22:26	05:11 21:45	06:17 20:29	07:22 19:02	08:27 16:43	08:27 17:38 (8)	47	09:07 18:25 (8)	08:37 15:44	15:43
31	08:29 16:44	06:56 19:59	05:56 18:39	46 17:53 (8)	05:36 21:07	04:34 22:07	04:26 21:43	05:13 20:26	06:19 19:00	07:24 18:00	08:29 16:40	08:29 17:39 (8)	46	09:06 18:24 (8)	08:38 15:44	15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	1232	278	241	207			
Total, worst case			1244	248						0,43	0,31					
Sun reduction			0,37	0,46						0,93	0,93					
Oper. time red.			0,93	0,93						0,98	0,98					
Wind dir. red.			0,98	0,98						0,39	0,28					
Total reduction			0,33	0,42						0,98	0,77					
Total, real			414	104												

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BJ - 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

0	1	Sum
4 076	4 076	8 152

	January		February		March	April		May	June
1	09:07		09:53 (1)	08:27	07:20	07:47 (10)	06:54	05:34	04:33
	15:46	65	12:31 (3)	16:46	17:52	08:01 (10)	20:01	21:08	22:09
2	09:06		09:53 (1)	08:25	07:17	07:44 (10)	06:51	05:31	04:32
	15:47	63	12:30 (3)	16:48	17:54	08:02 (10)	20:03	21:10	22:10
3	09:06		09:53 (1)	08:23	07:14	07:43 (10)	06:48	05:29	04:31
	15:48	63	12:30 (3)	16:51	17:57	08:02 (10)	20:06	21:12	22:12
4	09:06		09:53 (1)	08:21	07:12	07:43 (10)	06:46	05:27	04:29
	15:50	61	12:29 (3)	16:53	17:59	08:03 (10)	20:08	21:14	22:13
5	09:05		09:54 (1)	08:19	07:09	07:43 (10)	06:43	05:24	04:28
	15:51	59	12:29 (3)	16:56	18:01	08:03 (10)	20:10	21:16	22:15
6	09:04		09:54 (1)	08:17	07:06	07:42 (10)	06:40	05:22	04:27
	15:53	53	12:26 (3)	16:58	18:03	08:02 (10)	20:12	21:19	22:16
7	09:04		09:54 (1)	08:14	07:03	07:42 (10)	06:37	05:19	04:26
	15:54	52	11:01 (4)	17:00	18:06	08:02 (10)	20:14	21:21	22:17
8	09:03		09:55 (1)	08:12	07:01	07:43 (10)	06:34	05:17	04:26
	15:56	51	11:02 (4)	17:03	18:08	08:01 (10)	20:17	21:23	22:18
9	09:02		09:54 (1)	08:10	06:58	07:44 (10)	06:32	05:15	04:25
	15:57	51	11:01 (4)	17:05	18:10	08:00 (10)	20:19	21:25	22:19
10	09:01		09:55 (1)	08:08	06:55	07:45 (10)	06:29	05:13	04:24
	15:59	51	11:02 (4)	17:07	18:13	07:58 (10)	20:21	21:27	22:21
11	09:00		09:56 (1)	08:05	06:53	07:47 (10)	06:26	05:10	04:23
	16:01	50	11:02 (4)	17:10	18:15	07:55 (10)	20:23	21:29	22:22
12	08:59		09:55 (1)	08:03	06:50		06:23	05:08	04:23
	16:03	49	11:01 (4)	17:12	18:17		20:26	21:31	22:22
13	08:58		09:56 (1)	08:00	06:47		06:21	05:06	04:22
	16:05	49	11:02 (4)	17:15	18:19		20:28	21:34	22:23
14	08:57		09:56 (1)	07:58	06:44		06:18	05:04	04:22
	16:07	48	11:01 (4)	17:17	18:21		20:30	21:36	22:24
15	08:56		09:57 (1)	07:56	06:41		06:15	05:02	04:22
	16:09	47	11:02 (4)	17:19	18:24		20:32	21:38	22:25
16	08:55		09:58 (1)	07:53	06:39		06:13	05:00	04:21
	16:11	44	11:01 (4)	17:22	18:26		20:34	21:40	22:25
17	08:53		09:59 (1)	07:51	06:36		06:10	04:58	04:21
	16:13	43	11:02 (4)	17:24	18:28		20:37	21:42	22:26
18	08:52		09:59 (1)	07:48	06:33		06:07	04:56	04:21
	16:15	40	11:01 (4)	17:26	18:30		20:39	21:44	22:27
19	08:50		10:00 (1)	07:46	06:30		06:05	04:54	04:21
	16:17	37	11:00 (4)	17:29	18:33		20:41	21:46	22:27
20	08:49		10:01 (1)	07:43	06:27		06:02	04:52	04:21
	16:19	32	10:58 (4)	17:31	18:35		20:43	21:48	22:27
21	08:47		10:02 (1)	07:41	06:25		05:59	04:50	04:21
	16:21	26	10:56 (4)	17:33	18:37		20:45	21:50	22:28
22	08:46		10:03 (1)	07:38	06:22		05:57	04:48	04:21
	16:23	15	10:18 (1)	17:36	18:39		20:48	21:52	22:28
23	08:44		10:05 (1)	07:35	06:19		05:54	04:47	04:21
	16:25	12	10:17 (1)	17:38	18:41		20:50	21:54	22:28
24	08:42		10:07 (1)	07:33	06:16		05:51	04:45	04:22
	16:28	8	10:15 (1)	17:40	18:44		20:52	21:55	22:28
25	08:41			07:30	06:13		05:49	04:43	04:22
	16:30			17:43	18:46		20:54	21:57	22:28
26	08:39			07:28	06:11		05:46	04:42	04:23
	16:32			17:45	18:48		20:57	21:59	22:28
27	08:37			07:25	07:53 (10)	06:08	05:44	04:40	04:23
	16:34			17:47	5 07:58 (10)	18:50	20:59	22:01	22:28
28	08:35			07:22	07:50 (10)	06:05	05:41	04:38	04:24
	16:37			17:50	10 08:00 (10)	18:52	21:01	22:02	22:28
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	1069		15		186				
Sun reduction	0,13		0,22		0,37				
Oper. time red.	0,93		0,93		0,93				
Wind dir. red.	0,41		0,93		0,93				
Total reduction	0,05		0,19		0,32				
Total, real	53		3		59				

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

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes 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: BJ - 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

0	1	Sum
4 076	4 076	8 152

	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	08:28 (10)	07:36
	22:26	21:39	20:21	18:57	3 08:31 (10)	16:36
3	04:28	05:19	06:25	07:29	08:24 (10)	07:38
	22:25	21:37	20:18	18:54	11 08:35 (10)	16:33
4	04:29	05:21	06:27	07:31	08:22 (10)	07:41
	22:24	21:35	20:15	18:51	15 08:37 (10)	16:31
5	04:30	05:23	06:30	07:33	08:20 (10)	07:43
	22:24	21:33	20:13	18:48	17 08:37 (10)	16:29
6	04:31	05:26	06:32	07:35	08:19 (10)	07:45
	22:23	21:30	20:10	18:46	19 08:38 (10)	16:27
7	04:32	05:28	06:34	07:38	08:19 (10)	07:48
	22:22	21:28	20:07	18:43	20 08:39 (10)	16:24
8	04:33	05:30	06:36	07:40	08:18 (10)	07:50
	22:21	21:26	20:04	18:40	20 08:38 (10)	16:22
9	04:35	05:32	06:38	07:42	08:17 (10)	07:52
	22:20	21:23	20:01	18:37	21 08:38 (10)	16:20
10	04:36	05:34	06:40	07:44	08:17 (10)	07:55
	22:19	21:21	19:59	18:35	20 08:37 (10)	16:18
11	04:37	05:36	06:42	07:46	08:18 (10)	07:57
	22:18	21:18	19:56	18:32	19 08:37 (10)	16:16
12	04:39	05:38	06:44	07:49	08:19 (10)	07:59
	22:17	21:16	19:53	18:29	17 08:36 (10)	16:14
13	04:40	05:40	06:46	07:51	08:21 (10)	08:01
	22:15	21:14	19:50	18:27	13 08:34 (10)	16:12
14	04:42	05:43	06:49	07:53	08:24 (10)	08:04
	22:14	21:11	19:47	18:24	9 08:33 (10)	16:10
15	04:44	05:45	06:51	07:55	08:26 (10)	08:06
	22:13	21:09	19:45	18:21	3 08:29 (10)	16:08
16	04:45	05:47	06:53	07:57	08:08	08:08
	22:11	21:06	19:42	18:19	16:06	15:35
17	04:47	05:49	06:55	08:00	08:10	09:02
	22:10	21:03	19:39	18:16	16:04	15:35
18	04:49	05:51	06:57	08:02	08:13	09:03
	22:08	21:01	19:36	18:13	16:02	8 09:49 (1)
19	04:50	05:53	06:59	08:04	08:15	09:40 (1)
	22:06	20:58	19:33	18:11	16:01	12 09:52 (1)
20	04:52	05:55	07:01	08:06	08:17	09:38 (1)
	22:05	20:56	19:30	18:08	15:59	15 09:53 (1)
21	04:54	05:58	07:03	08:09	08:19	09:38 (1)
	22:03	20:53	19:28	18:05	15:57	26 10:32 (4)
22	04:56	06:00	07:05	08:11	08:21	09:37 (1)
	22:01	20:50	19:25	18:03	15:56	32 10:34 (4)
23	04:57	06:02	07:08	08:13	08:23	09:37 (1)
	22:00	20:48	19:22	18:00	15:54	37 10:37 (4)
24	04:59	06:04	07:10	08:15	08:25	09:37 (1)
	21:58	20:45	19:19	17:58	15:52	40 10:38 (4)
25	05:01	06:06	07:12	07:18	08:27	09:36 (1)
	21:56	20:43	19:16	16:55	15:51	43 10:39 (4)
26	05:03	06:08	07:14	07:20	08:30	09:37 (1)
	21:54	20:40	19:14	16:53	15:50	44 10:40 (4)
27	05:05	06:10	07:16	07:22	08:32	09:37 (1)
	21:52	20:37	19:11	16:50	15:48	45 10:41 (4)
28	05:07	06:12	07:18	07:25	08:34	09:36 (1)
	21:50	20:34	19:08	16:48	15:47	49 10:42 (4)
29	05:09	06:15	07:20	07:27	08:35	09:36 (1)
	21:48	20:32	19:05	16:45	15:46	49 10:42 (4)
30	05:11	06:17	07:22	07:29	08:37	09:38 (1)
	21:46	20:29	19:02	16:43	15:44	49 10:44 (4)
31	05:13	06:19		07:31		09:07
	21:44	20:26		16:40		15:44
Potential sun hours	538	475	386	321	241	207
Total, worst case				207	449	1956
Sun reduction				0,31	0,15	0,13
Oper. time red.				0,93	0,93	0,93
Wind dir. red.				0,93	0,44	0,33
Total reduction				0,26	0,06	0,04
Total, real				55	28	77

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BK - 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
0 1 Sum
4 076 4 076 8 152

		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		05:06 (3)	05:15	06:21		06:59 (2)	07:25	07:34	08:39	
	15:46	16:46	17:52	20:01			21:08	22:09		22:26	10	05:16 (3)	05:21	06:23	21	07:20 (2)	19:00	16:38	15:44	
2	09:06	08:25	07:17	06:51			05:32	04:32		04:27		05:07 (3)	05:18	06:23		07:00 (2)	07:27	07:36	08:41	
	15:47	16:49	17:54	20:04			21:10	22:10		22:26	9	05:16 (3)	05:21	06:23	18	07:18 (2)	18:57	16:36	15:43	
3	09:06	08:23	07:14	06:48			05:29	04:31		04:28		05:08 (3)	05:20	06:25		07:02 (2)	07:29	07:38	08:43	
	15:48	16:51	17:57	20:06			21:12	22:12		22:25	8	05:16 (3)	05:27	06:25	13	07:15 (2)	18:54	16:34	15:42	
4	09:05	08:21	07:12	06:46			05:27	04:30		04:29		05:09 (3)	05:22	06:28		07:07 (2)	07:31	07:41	08:44	
	15:50	16:53	17:59	20:08			21:14	22:13		22:24	6	05:15 (3)	05:25	06:28	3	07:10 (2)	18:51	16:31	15:41	
5	09:05	08:19	07:09	06:43			05:24	04:29		04:30		05:10 (3)	05:24	06:30			07:33	07:43	08:46	
	15:51	16:56	18:01	20:10			21:16	22:15		22:24	4	05:14 (3)	05:24	06:30			07:33	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	06:32			07:35	07:45	08:48	
	15:53	16:58	18:04	20:12			21:19	22:16		22:23			21:30	06:32			18:46	16:27	15:39	
7	09:04	08:14	07:04	06:37			05:20	04:27		05:05 (3)		04:33		05:28			07:38	07:48	08:49	
	15:54	17:01	18:06	20:15			21:21	22:17	3	05:08 (3)		04:33		05:28			18:43	16:25	15:38	
8	09:03	08:12	07:01	06:35		07:10 (2)	05:17	04:26		05:04 (3)		04:34		05:30			07:40	07:50	08:51	
	15:56	17:03	18:08	20:17	3	07:13 (2)	21:23	22:18	5	05:09 (3)		04:34		05:30			18:40	16:22	15:38	
9	09:02	08:10	06:58	06:32		07:04 (2)	05:15	04:25		05:03 (3)		04:35		05:32			07:42	07:52	08:52	
	15:58	17:05	18:10	20:19	13	07:17 (2)	21:25	22:19	7	05:10 (3)		04:35		05:32			18:38	16:20	15:37	
10	09:01	08:08	06:55	06:29		07:01 (2)	05:13	04:24		05:03 (3)		04:36		05:34			07:44	07:54	08:54	
	16:00	17:08	18:13	20:21	18	07:19 (2)	21:27	22:20	8	05:11 (3)		04:36		05:34			18:35	16:18	15:37	
11	09:00	08:05	06:53	06:26		07:00 (2)	05:11	04:24		05:02 (3)		04:38		05:36			07:46	07:57	08:55	
	16:01	17:10	18:15	20:23	21	07:21 (2)	21:29	22:21	10	05:12 (3)		04:38		05:36			18:32	16:16	15:36	
12	08:59	08:03	06:50	06:24		06:58 (2)	05:09	04:23		05:02 (3)		04:39		05:39			07:49	07:59	08:56	
	16:03	17:12	18:17	20:26	24	07:22 (2)	21:31	22:22	11	05:13 (3)		04:39		05:41			18:32	16:14	15:36	
13	08:58	08:00	06:47	06:21		06:58 (2)	05:06	04:23		05:02 (3)		04:41		05:41			07:51	08:01	08:57	
	16:05	17:15	18:19	20:28	25	07:23 (2)	21:34	22:23	12	05:14 (3)		04:41		05:41			18:27	16:12	15:36	
14	08:57	07:58	06:44	06:18		06:56 (2)	05:04	04:22		05:01 (3)		04:42		05:43			07:53	08:04	08:59	
	16:07	17:17	18:22	20:30	27	07:23 (2)	21:36	22:24	12	05:13 (3)		04:42		05:43			18:24	16:10	15:35	
15	08:56	07:56	06:42	06:16		06:55 (2)	05:02	04:22		05:01 (3)		04:44		05:45			07:55	08:06	09:00	
	16:09	17:20	18:24	20:32	28	07:23 (2)	21:38	22:25	13	05:14 (3)		04:42		05:45	8	07:18 (2)	16:08	15:35		
16	08:54	07:53	06:39	06:13		06:55 (2)	05:00	04:22		05:01 (3)		04:45		05:47			07:57	08:08	09:01	
	16:11	17:22	18:26	20:34	29	07:24 (2)	21:40	22:25	14	05:15 (3)		04:45		05:47	14	07:21 (2)	16:06	15:35		
17	08:53	07:51	06:36	06:10		06:54 (2)	04:58	04:21		05:01 (3)		04:47		05:49			08:00	08:10	09:02	
	16:13	17:24	18:28	20:37	29	07:23 (2)	21:42	22:26	14	05:15 (3)		04:47		05:49	17	07:22 (2)	16:04	15:35		
18	08:52	07:48	06:33	06:07		06:55 (2)	04:56	04:21		05:01 (3)		04:49		05:51			08:02	08:13	09:03	
	16:15	17:27	18:31	20:39	28	07:23 (2)	21:44	22:26	14	05:15 (3)		04:49		05:51	21	07:24 (2)	16:03	15:36		
19	08:50	07:46	06:30	06:05		06:54 (2)	04:54	04:21		05:01 (3)		04:51		05:51			08:03	08:15	09:04	
	16:17	17:29	18:33	20:41	29	07:23 (2)	21:46	22:27	15	05:16 (3)		04:52		05:58	23	07:25 (2)	16:03	15:36		
20	08:49	07:43	06:28	06:02		06:54 (2)	04:52	04:21		05:01 (3)		04:52		05:56			08:06	08:17	09:04	
	16:19	17:31	18:35	20:43	28	07:22 (2)	21:48	22:27	15	05:16 (3)		04:52		05:56	24	07:25 (2)	16:03	15:36		
21	08:47	07:41	06:25	06:00		06:54 (2)	04:50	04:21		05:01 (3)		04:54		05:58			08:09	08:19	09:05	
	16:21	17:34	18:37	20:45	27	07:21 (2)	21:50	22:27	15	05:16 (3)		04:54		05:58	26	07:26 (2)	16:02	15:35		
22	08:46	07:38	06:22	05:57		06:54 (2)	04:49	04:22		05:02 (3)		04:56		06:00			08:11	08:21	09:05	
	16:24	17:36	18:39	20:48	26	07:20 (2)	21:52	22:28	15	05:17 (3)		04:56		06:00	27	07:26 (2)	16:02	15:35		
23	08:44	07:36	06:19	05:54		06:55 (2)	04:47	04:22		05:02 (3)		04:58		06:02			08:13	08:23	09:06	
	16:26	17:38	18:42	20:50	25	07:20 (2)	21:53	22:28	15	05:17 (3)		04:59		06:02	28	07:26 (2)	16:02	15:34		
24	08:42	07:33	06:16	05:52		06:56 (2)	04:45	04:22		05:02 (3)		05:00		06:04			08:15	08:25	09:06	
	16:28	17:41	18:44	20:52	23	07:19 (2)	21:55	22:28	15	05:17 (3)		04:58		06:04	28	07:26 (2)	16:02	15:35		
25	08:41	07:30	06:14	05:49		06:57 (2)	04:43	04:22		05:03 (3)		05:02		06:06			07:18	08:27	09:06	
	16:30	17:43	18:46	20:54	20	07:17 (2)	21:57	22:28	14	05:17 (3)		04:56		06:06	29	07:26 (2)	16:02	15:35		
26	08:39	07:28	06:11	05:47		06:58 (2)	04:42	04:23		05:03 (3)		05:04		06:08			07:20	08:29	09:07	
	16:32	17:45	18:48	20:57	17	07:15 (2)	21:58	22:28	14	05:17 (3)		04:54		06:08	29	07:26 (2)	16:02	15:35		
27	08:37	07:25	06:08	05:44		07:00 (2)	04:40	04:23		05:04 (3)		05:05		06:11			07:22	08:31	09:07	
	16:35	17:48	18:50	20:59	13	07:13 (2)	22:01	22:28	13	05:17 (3)		04:52		06:11	28	07:25 (2)	16:02	15:48		
28	08:35	07:22	06:05	05:41		07:04 (2)	04:39	04:24		05:04 (3)		05:07		06:13			07:25	08:33	09:07	
	16:37	17:50	18:53	21:01	5	07:09 (2)	22:02	22:27	13	05:17 (3)		04:50		06:13	28	07:25 (2)	16:02	15:47		
29	08:33	07:02	05:39			04:37	04:25	04:25		05:05 (3)		05:09		06:15			07:27	08:35	09:07	
	16:39	19:55	21:03			22:04	22:27	22:27	12	05:17 (3)		04:48		06:15	27	07:24 (2)	16:02	15:46		
30	08:31	07:00	05:37			04:36	04:26	04:26		05:06 (3)		05:11		06:17			07:29	08:37	09:07	
	16:42	19:57	21:05			22:06	22:27	22:27	11	05:17 (3)		04:46		06:17	25	07:23 (2)	16:02	15:43		
31	08:29	06:57				04:35				05:13				06:19			07:31			
	16:44	19:59				22:07				21:44				06:19	24	07:22 (2)	16:02	15:41		
Potential sun hours	227	262	365	429		515		539		538		474		386		321	241	207		
Total, worst case					458			290		37		406		55						
Sun reduction					0,46			0,53		0,57		0,55		0,43						
Oper. time red.					0,93			0,93		0,93		0,93		0,93						
Wind dir. red.					0,99			0,78		0,78		0,99		0,99						
Total reduction					0,43			0,39		0,41		0,50		0,40						
Total, real					195			112		15		205		22						

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BL - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:15	15:36
12	08:59	08:03	06:49	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59
	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: BM - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December			
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 21	07:25 (2) 07:46 (2)	05:34 21:08	04:33 22:09	04:26 22:26	05:15 21:42	06:21 20:24	07:23 (2) 07:39 (2)	07:25 19:00	07:34 16:38	08:39 15:44	
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 23	07:23 (2) 07:46 (2)	05:32 21:10	04:32 22:10	04:27 22:26	05:18 21:39	06:23 20:21	07:22 (2) 07:40 (2)	07:27 18:57	07:36 16:36	08:41 15:43	
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 24	07:23 (2) 07:47 (2)	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:20 (2) 07:41 (2)	07:29 18:54	07:38 16:34	08:43 15:42	
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 25	07:22 (2) 07:47 (2)	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15	07:19 (2) 07:41 (2)	07:31 18:51	07:41 16:31	08:44 15:41	
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 24	07:22 (2) 07:46 (2)	05:24 21:16	04:29 22:15	04:30 22:24	05:24 21:33	06:30 20:13	07:18 (2) 07:42 (2)	07:33 18:49	07:43 16:29	08:46 15:40	
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 24	07:21 (2) 07:45 (2)	05:22 21:19	04:28 22:18	04:31 22:23	05:26 21:30	06:32 20:10	07:17 (2) 07:41 (2)	07:36 18:46	07:45 16:27	08:48 15:39	
7	09:04 15:54	08:14 17:01	07:04 18:06	06:37 23	07:22 (2) 07:45 (2)	05:20 21:21	04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07	07:17 (2) 07:41 (2)	07:38 18:43	07:48 16:25	08:49 15:38	
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 22	07:22 (2) 07:44 (2)	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:26	06:36 20:04	07:17 (2) 07:41 (2)	07:40 18:40	07:50 16:22	08:51 15:38	
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 21	07:22 (2) 07:43 (2)	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:17 (2) 07:40 (2)	07:42 18:38	07:52 16:20	08:52 15:37	
10	09:01 16:00	08:08 17:08	06:55 18:13	06:29 21	07:24 (2) 07:42 (2)	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:17 (2) 07:39 (2)	07:44 18:35	07:55 16:18	08:54 15:37	
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 16	07:24 (2) 07:40 (2)	05:11 21:29	04:24 22:21	04:38 22:18	05:36 21:18	06:42 19:56	07:17 (2) 07:38 (2)	07:46 18:32	07:57 16:16	08:55 15:36	
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 11	07:26 (2) 07:37 (2)	05:09 21:31	04:23 22:22	04:39 22:16	05:39 21:16	06:44 19:53	07:17 (2) 07:37 (2)	07:49 18:29	07:59 16:14	08:56 15:36	
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20		05:06 21:34	04:23 22:23	04:41 22:15	05:41 21:14	06:47 19:50	07:18 (2) 07:35 (2)	07:51 18:27	08:01 16:12	08:58 15:36	
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20		05:04 21:36	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:20 (2) 07:32 (2)	07:53 18:24	08:04 16:10	08:59 15:35	
15	08:56 16:09	07:56 17:20	06:42 18:24	06:16 20		05:02 21:38	04:22 22:25	04:44 22:12	05:45 21:09	06:51 19:45	07:24 (2) 07:28 (2)	07:55 18:21	08:06 16:08	09:00 15:35	
16	08:55 16:11	07:53 17:22	06:39 18:26	06:13 20		05:00 21:40	04:22 22:25	04:45 22:11	05:47 21:06	06:53 19:42		07:57 18:19	08:08 16:06	09:01 15:35	
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20		04:58 21:42	04:21 22:26	04:47 22:10	05:49 21:03	06:55 19:39		08:00 18:16	08:10 16:04	09:02 15:35	
18	08:52 16:15	07:48 17:27	06:33 18:31	06:07 20		04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36		08:02 18:13	08:13 16:03	09:03 15:36	
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20		04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33		08:04 18:11	08:15 16:01	09:03 15:36	
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20		04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:31		08:06 18:08	08:17 15:59	09:04 15:36	
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20		04:50 21:50	04:21 22:28	04:54 22:03	05:58 20:53	07:03 19:28		08:09 18:06	08:19 15:57	09:05 15:36	
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20		04:49 21:52	04:22 22:28	04:56 22:01	06:00 20:51	07:06 19:25		08:11 18:03	08:21 15:56	09:05 15:37	
23	08:44 16:26	07:36 17:38	06:19 18:42	05:54 20		04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22		08:13 18:00	08:23 15:54	09:06 15:37	
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20		04:45 21:55	04:22 22:28	05:00 21:58	06:04 20:45	07:10 19:19		08:15 17:58	08:25 15:53	09:06 15:38	
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20		04:43 21:57	04:22 22:28	05:02 21:56	06:06 20:43	07:12 19:16		07:18 16:55	08:27 15:51	09:07 15:39	
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20		04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14		07:20 16:53	08:29 15:50	09:07 15:39	
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20		04:40 22:01	04:23 22:28	05:05 21:52	06:11 20:37	07:16 19:11		07:22 16:50	08:31 15:48	09:07 15:40	
28	08:35 16:37	07:22 17:50	06:05 18:53	05:42 20		04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:35	07:18 19:08		07:25 16:48	08:33 15:47	09:07 15:41	
29	08:33 16:39	07:02 19:55		07:30 (2) 12	05:39 07:42 (2)	04:37 21:03	04:25 22:04	05:09 22:27	06:15 21:48	07:20 20:32		07:27 16:46	08:35 15:46	09:07 15:42	
30	08:31 16:42	07:00 19:57		07:28 (2) 16	05:37 07:44 (2)	04:36 21:05	04:26 22:06	05:11 22:27	06:17 21:46	07:23 20:29	07:31 (2) 2	07:29 16:43	08:37 15:45	09:07 15:43	
31	08:29 16:44	06:57 19:59		07:26 (2) 19	07:45 (2)		04:35 22:07	05:13 21:44	06:19 20:26	07:26 (2) 11	07:37 (2)		16:41		15:44
Potential sun hours	227	262	365	429		515	539	538	474	386		321	241	207	
Total, worst case			47	252					13	292					
Sun reduction			0,37	0,46					0,55	0,43					
Oper. time red.			0,93	0,93					0,93	0,93					
Wind dir. red.			1,00	1,00					1,00	1,00					
Total reduction			0,34	0,43					0,51	0,40					
Total, real			16	108					7	117					

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: BN - 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

0	1	Sum
4 076	4 076	8 152

	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	09:25 (13)		
	15:45	14	10:04 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38		15:43	27	09:52 (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		09:25 (13)	
	15:47	16	10:05 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36		15:42	27	09:52 (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		09:26 (13)	
	15:48	17	10:05 (13)	16:51	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33		15:41	26	09:52 (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		09:28 (13)	
	15:49	18	10:05 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31		15:40	25	09:53 (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		09:30 (13)	
	15:51	20	10:07 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29		15:39	23	09:53 (13)	
6	09:04		09:46 (13)	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45		08:48		09:31 (13)	
	15:52	21	10:07 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26		15:38	21	09:52 (13)	
7	09:04		09:45 (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	23	10:08 (13)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24		15:38	20	09:53 (13)	
8	09:03		09:43 (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	25	10:08 (13)	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22		15:37	18	09:53 (13)	
9	09:02		09:42 (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	26	10:08 (13)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20		15:37	17	09:54 (13)	
10	09:01		09:42 (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	27	10:09 (13)	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18		15:36	16	09:54 (13)	
11	09:00		09:42 (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	28	10:10 (13)	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16		15:36	14	09:54 (13)	
12	08:59		09:42 (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	28	10:10 (13)	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14		15:35	13	09:54 (13)	
13	08:58		09:43 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		08:58		09:42 (13)	
	16:04	28	10:11 (13)	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12		15:35	12	09:54 (13)	
14	08:57		09:43 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		08:59		09:44 (13)	
	16:06	27	10:10 (13)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10		15:35	11	09:55 (13)	
15	08:56		09:44 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06		09:29 (13)	09:00	09:45 (13)	
	16:08	27	10:11 (13)	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	10	09:39 (13)	15:35	10	09:55 (13)
16	08:54		09:44 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:27 (13)	09:01	09:46 (13)	
	16:10	27	10:11 (13)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	14	09:41 (13)	15:35	10	09:56 (13)
17	08:53		09:44 (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	09:47 (13)	
	16:12	27	10:11 (13)	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	17	09:43 (13)	15:35	9	09:56 (13)
18	08:52		09:46 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		09:24 (13)	09:03	09:48 (13)	
	16:14	26	10:12 (13)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	20	09:44 (13)	15:35	8	09:56 (13)
19	08:50		09:46 (13)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:24 (13)	09:03	09:48 (13)	
	16:17	26	10:12 (13)	17:29	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	21	09:45 (13)	15:35	8	09:56 (13)
20	08:49		09:47 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:23 (13)	09:04	09:49 (13)	
	16:19	25	10:12 (13)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	23	09:46 (13)	15:35	8	09:57 (13)
21	08:47		09:47 (13)	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		09:23 (13)	09:05	09:50 (13)	
	16:21	24	10:11 (13)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	24	09:47 (13)	15:36	8	09:58 (13)
22	08:46		09:48 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:23 (13)	09:05	09:50 (13)	
	16:23	23	10:11 (13)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	25	09:48 (13)	15:36	8	09:58 (13)
23	08:44		09:49 (13)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:22 (13)	09:06	09:51 (13)	
	16:25	21	10:10 (13)	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	26	09:48 (13)	15:37	8	09:59 (13)
24	08:42		09:50 (13)	07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		09:23 (13)	09:06	09:51 (13)	
	16:27	20	10:10 (13)	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	26	09:49 (13)	15:37	8	09:59 (13)
25	08:41		09:52 (13)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	08:18	08:27		09:22 (13)	09:07	09:51 (13)	
	16:30	17	10:09 (13)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	27	09:49 (13)	15:38	8	09:59 (13)
26	08:39		09:54 (13)	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	08:20	08:29		09:23 (13)	09:07	09:51 (13)	
	16:32	14	10:08 (13)	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	27	09:50 (13)	15:39	9	10:00 (13)
27	08:37		09:56 (13)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	08:22	08:31		09:23 (13)	09:07	09:51 (13)	
	16:34	10	10:06 (13)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	27	09:50 (13)	15:40	9	10:00 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	08:24	08:33		09:23 (13)	09:07	09:51 (13)	
	16:37			17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	28	09:51 (13)	15:41	10	10:01 (13)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:14	07:20	08:27	08:35		09:23 (13)	09:07	09:51 (13)	
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	28	09:51 (13)	15:42	11	10:02 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	08:29	08:37		09:24 (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	28	09:52 (13)	15:43	12	10:03 (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	13	10:03 (13)	
Potential sun hours	227		262	365	429	516	539	539	475	386	321	241		207				
Total, worst case		605													371		427	
Sun reduction		0,13													0,15		0,13	
Oper. time red.		0,93													0,93		0,93	
Wind dir. red.		0,55													0,55		0,55	
Total reduction		0,07													0,08		0,06	
Total, real		40													29		28	

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BO - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:08	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:33 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:09	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:20	07:27 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:56	06:48 20:05	05:29 21:12	04:31 22:11	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:42 15:41
4	09:05 15:50	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:29 22:24	05:21 21:34	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:40
5	09:05 15:51	08:18 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:15	04:31 22:22	05:26 21:30	06:31 20:09	07:35 18:46	07:45 16:27	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:19 21:20	04:27 22:17	04:32 22:21	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:02 15:56	08:12 17:03	07:00 18:08	06:34 20:16	05:17 21:22	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:50 15:37
9	09:02 15:58	08:09 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:18	05:34 21:20	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:24 22:21	04:38 22:17	05:36 21:18	06:42 19:55	07:46 18:32	07:56 16:16	08:55 15:36
12	08:59 16:03	08:02 17:12	06:49 18:17	06:23 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:14	06:47 18:19	06:21 20:27	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:50 18:26	08:01 16:12	08:57 15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:13	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:55 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:24	04:44 22:12	05:45 21:08	06:50 19:44	07:55 18:21	08:05 16:08	08:59 15:35
16	08:54 16:11	07:53 17:22	06:38 18:26	06:13 20:34	05:00 21:39	04:21 22:25	04:45 22:11	05:47 21:06	06:53 19:41	07:57 18:18	08:08 16:06	09:00 15:35
17	08:53 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	04:21 22:25	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:45 17:29	06:30 18:32	06:05 20:41	04:54 21:45	04:21 22:26	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:14 16:01	09:03 15:35
20	08:48 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	04:21 22:27	04:52 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:16 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:04 15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 21:51	04:21 22:27	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:27	04:58 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:05 15:37
24	08:42 16:28	07:33 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:22 22:27	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:27	05:01 21:55	06:06 20:42	07:12 19:16	07:17 16:55	08:27 15:51	09:06 15:38
26	08:38 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:42 21:58	04:23 22:27	05:03 21:53	06:08 20:40	07:14 19:13	07:20 16:53	08:29 15:50	09:06 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 22:00	04:23 22:27	05:05 21:51	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:06 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:49	06:12 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:54	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:47	06:15 20:31	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:41		06:59 19:57	05:36 21:05	04:36 22:05	04:25 22:26	05:11 21:45	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:40		09:06 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BQ - 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

0	1	Sum
4 076	4 076	8 152

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

SHADOW - Calendar

Shadow receptor: BR - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 15:45	08:27 16:46	07:19 17:52	06:54 20:01	19:19 (8) 21:07	04:33 22:08
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	19:18 (8) 21:09	04:32 22:10
3	09:05 15:48	08:23 16:51	07:14 17:56	06:48 20:05	19:17 (8) 21:12	04:30 22:11
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:07	19:16 (8) 21:14	04:29 22:13
5	09:04 15:51	08:18 16:55	07:09 18:01	06:42 20:10	19:17 (8) 21:16	04:28 22:14
6	09:04 15:52	08:16 16:58	07:06 18:03	06:40 20:12	19:16 (8) 21:18	04:27 22:15
7	09:03 15:54	08:14 17:00	07:03 18:05	06:37 20:14	19:16 (8) 21:20	04:26 22:17
8	09:02 15:56	08:12 17:02	07:00 18:08	06:34 20:16	19:16 (8) 21:22	04:25 22:18
9	09:02 15:57	08:09 17:05	06:58 18:10	06:31 20:19	19:18 (8) 21:25	04:25 22:19
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	19:18 (8) 21:27	04:24 22:20
11	09:00 16:01	08:05 17:10	06:52 18:14	06:26 20:23	19:19 (8) 21:29	04:23 22:21
12	08:59 16:03	08:02 17:12	06:49 18:17	06:23 20:25	19:22 (8) 21:31	04:23 22:22
13	08:58 16:05	08:00 17:14	06:47 18:19	06:20 20:27	05:06 21:33	04:22 22:23
14	08:57 16:06	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24
15	08:55 16:08	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:37	04:21 22:24
16	08:54 16:10	07:53 17:21	06:38 18:26	06:12 20:34	05:00 21:39	04:21 22:25
17	08:53 16:12	07:50 17:24	06:36 18:28	06:10 20:36	04:58 21:41	04:21 22:25
18	08:51 16:15	07:48 17:26	06:33 18:30	06:07 20:38	04:56 21:43	04:21 22:26
19	08:50 16:17	07:45 17:28	06:30 18:32	06:04 20:41	04:54 21:45	04:21 22:26
20	08:48 16:19	07:43 17:31	06:27 18:34	06:02 20:43	04:52 21:47	04:21 22:27
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:49	04:21 22:27
22	08:45 16:23	07:38 17:36	06:22 18:39	05:56 20:47	04:48 21:51	04:21 22:27
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:49	04:46 21:53	04:21 22:27
24	08:42 16:27	07:32 17:40	06:16 18:43	05:51 20:52	04:45 21:55	04:22 22:27
25	08:40 16:30	07:30 17:42	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:27
26	08:38 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:41 21:58	04:22 22:27
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 22:00	04:23 22:27
28	08:35 16:37	07:22 17:49	06:05 18:52	05:41 21:01	04:38 22:02	04:24 22:27
29	08:33 16:39		07:02 19:04	05:39 19:24 (8)	04:37 22:04	04:24 22:27
30	08:31 16:41		06:59 19:56	05:36 19:21 (8)	04:35 22:05	04:25 22:26
31	08:29 16:44		06:56 19:59	05:33 19:20 (8)	04:34 22:07	04:25 22:26
Potential sun hours	227	262	365	429	515	539
Total, worst case			16	232	476	77
Sun reduction			0,37	0,46	0,58	0,53
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			0,99	0,99	0,85	0,85
Total reduction			0,34	0,43	0,46	0,42
Total, real			5	99	219	32

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

SHADOW - Calendar

Shadow receptor: BR - 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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15	20:49 (9)	06:21	19:18 (8)	07:24
	22:26	21:41	21:04 (9)	20:23	19:34 (8)	18:59
2	04:27	05:17	20:50 (9)	06:23	19:17 (8)	07:26
	22:25	21:39	21:02 (9)	20:20	19:36 (8)	18:56
3	04:28	05:19	20:51 (9)	06:25	19:16 (8)	07:29
	22:25	21:37	21:01 (9)	20:18	19:37 (8)	18:54
4	04:29	05:21	20:53 (9)	06:27	19:14 (8)	07:31
	22:24	21:34	20:59 (9)	20:15	19:37 (8)	18:51
5	04:30	05:23	20:59 (9)	06:29	19:13 (8)	07:33
	22:23	21:32	20:12	24	19:37 (8)	18:48
6	04:31	20:54 (9)	05:25	06:31	19:13 (8)	07:35
	22:22	21:00 (9)	21:30	20:09	19:37 (8)	18:45
7	04:32	20:53 (9)	05:27	06:33	19:12 (8)	07:37
	22:21	21:01 (9)	21:28	20:07	19:36 (8)	18:43
8	04:33	20:52 (9)	05:30	06:36	19:12 (8)	07:39
	22:20	21:03 (9)	21:25	20:04	19:33 (8)	18:40
9	04:35	20:51 (9)	05:32	06:38	19:11 (8)	07:42
	22:19	21:03 (9)	21:23	20:01	19:30 (8)	18:37
10	04:36	20:50 (9)	05:34	06:40	19:11 (8)	07:44
	22:18	21:04 (9)	21:20	19:58	19:27 (8)	18:34
11	04:37	20:50 (9)	05:36	06:42	19:11 (8)	07:46
	22:17	21:06 (9)	21:18	19:55	19:25 (8)	18:32
12	04:39	20:49 (9)	05:38	06:44	19:12 (8)	07:48
	22:16	21:06 (9)	21:16	19:53	19:22 (8)	18:29
13	04:40	20:48 (9)	05:40	06:46	19:13 (8)	07:50
	22:15	21:07 (9)	21:13	19:50	19:19 (8)	18:26
14	04:42	20:49 (9)	05:42	06:48	19:14 (8)	07:53
	22:13	21:08 (9)	21:11	19:47	19:16 (8)	18:24
15	04:43	20:48 (9)	05:44	06:50	07:55	08:05
	22:12	21:08 (9)	21:08	19:44	18:21	16:08
16	04:45	20:47 (9)	05:47	06:52	07:57	08:08
	22:11	21:08 (9)	21:06	19:41	18:18	16:06
17	04:47	20:47 (9)	05:49	06:55	07:59	08:10
	22:09	21:09 (9)	21:03	19:39	18:16	16:04
18	04:48	20:46 (9)	05:51	06:57	08:01	08:12
	22:08	21:09 (9)	21:00	19:36	18:13	16:02
19	04:50	20:47 (9)	05:53	06:59	08:04	08:14
	22:06	21:10 (9)	20:58	19:33	18:10	16:00
20	04:52	20:47 (9)	05:55	07:01	08:06	08:16
	22:04	21:11 (9)	20:55	19:30	18:08	15:59
21	04:54	20:46 (9)	05:57	07:03	08:08	08:19
	22:03	21:10 (9)	20:53	19:27	18:05	15:57
22	04:55	20:46 (9)	05:59	07:05	08:10	08:21
	22:01	21:11 (9)	20:50	19:24	18:03	15:55
23	04:57	20:46 (9)	06:02	07:07	08:13	08:23
	21:59	21:10 (9)	20:47	19:22	18:00	15:54
24	04:59	20:46 (9)	06:04	07:09	08:15	08:25
	21:57	21:11 (9)	20:45	19:19	17:57	15:52
25	05:01	20:46 (9)	06:06	07:11	07:17	08:27
	21:55	21:11 (9)	20:42	19:16	16:55	15:51
26	05:03	20:47 (9)	06:08	07:14	07:20	08:29
	21:53	21:11 (9)	20:39	19:13	16:52	15:49
27	05:05	20:46 (9)	06:10	07:16	07:22	08:31
	21:51	21:10 (9)	20:37	19:10	16:50	15:48
28	05:07	20:47 (9)	06:12	07:18	07:24	08:33
	21:49	21:10 (9)	20:34	19:08	16:48	15:47
29	05:09	20:47 (9)	06:14	07:20	07:26	08:35
	21:47	21:10 (9)	20:31	19:05	16:45	15:45
30	05:11	20:48 (9)	06:16	07:22	07:29	08:37
	21:45	21:09 (9)	20:29	19:02	16:43	15:44
31	05:13	20:49 (9)	06:19	19:21 (8)	07:31	09:06
	21:43	21:07 (9)	20:26	19:32 (8)	16:40	15:44
Potential sun hours	538	474	386	321	241	207
Total, worst case	511	54	239			
Sun reduction	0,57	0,55	0,43			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,85	0,88	0,99			
Total reduction	0,45	0,45	0,40			
Total, real	229	24	95			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BS - Stienu žī
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

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

SHADOW - Calendar

Shadow receptor: BT - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:32 21:10	04:32 22:10	04:27 22:25	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:32	06:30 20:12	07:33 18:49	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:20 21:21	04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:47 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:53 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21	04:38 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:39 21:16	06:44 19:53	07:49 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:47 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:56 16:09	07:56 17:19	06:41 18:24	06:15 20:32	05:02 21:38	04:22 22:25	04:44 22:12	05:45 21:08	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:21 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:01 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:09 18:06	08:19 15:57	09:05 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:28	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:57	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:40 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57	04:23 22:28	05:02 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:00	04:24 22:27	05:05 21:52	06:11 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:36 21:05	04:36 22:06	04:26 22:26	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:43	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BU - 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
0 1 Sum
4 076 4 076 8 152

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

SHADOW - Calendar

Shadow receptor: BV - 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
0 1 Sum
4 076 4 076 8 152

	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BW - 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

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May			June		
1	09:07		10:05 (2)	08:27		10:13 (2)	07:20		07:53 (5)	06:54		07:51 (3)	05:34		06:30 (1)	04:33		
	15:46	19	10:24 (2)	16:46	24	10:37 (2)	17:52	14	08:07 (5)	20:01	28	08:19 (3)	21:08	42	08:16 (3)	22:09		
2	09:06		10:06 (2)	08:25		10:14 (2)	07:17		07:50 (5)	06:51		07:48 (3)	05:31		07:39 (3)	04:32		
	15:47	19	10:25 (2)	16:49	22	10:36 (2)	17:54	18	08:08 (5)	20:04	33	08:21 (3)	21:10	35	08:14 (3)	22:10		
3	09:06		10:05 (2)	08:23		10:16 (2)	07:14		07:48 (5)	06:48		07:22 (4)	05:29		07:39 (3)	04:31		
	15:48	21	10:26 (2)	16:51	18	10:34 (2)	17:57	22	08:10 (5)	20:06	49	08:22 (3)	21:12	33	08:12 (3)	22:12		
4	09:05		10:05 (2)	08:21		10:19 (2)	07:12		07:48 (5)	06:46		07:20 (4)	05:27		07:41 (3)	04:30		
	15:50	22	10:27 (2)	16:53	14	10:33 (2)	17:59	23	08:11 (5)	20:08	57	08:24 (3)	21:14	29	08:10 (3)	22:13		
5	09:05		10:06 (2)	08:19		10:23 (2)	07:09		07:46 (5)	06:43		07:17 (4)	05:24		07:43 (3)	04:29		
	15:51	23	10:29 (2)	16:56	4	10:27 (2)	18:01	26	08:12 (5)	20:10	64	08:25 (3)	21:16	25	08:08 (3)	22:15		
6	09:04		10:06 (2)	08:17			07:06		07:45 (5)	06:40		07:15 (4)	05:22		07:46 (3)	04:28		
	15:53	23	10:29 (2)	16:58			18:04	27	08:12 (5)	20:12	70	08:26 (3)	21:19	19	08:05 (3)	22:16		
7	09:04		10:06 (2)	08:14			07:04		07:44 (5)	06:37		07:15 (4)	05:20		07:50 (3)	04:27		
	15:54	24	10:30 (2)	17:00			18:06	28	08:12 (5)	20:15	72	08:27 (3)	21:21	11	08:01 (3)	22:17		
8	09:03		10:05 (2)	08:12			07:01		07:44 (5)	06:35		07:13 (4)	05:17			04:26		
	15:56	25	10:30 (2)	17:03			18:08	28	08:12 (5)	20:17	75	08:28 (3)	21:23			22:18		
9	09:02		10:05 (2)	08:10			06:58		07:44 (5)	06:32		07:12 (4)	05:15			04:25		
	15:58	26	10:31 (2)	17:05			18:10	29	08:13 (5)	20:19	76	08:28 (3)	21:25			22:19		
10	09:01		10:05 (2)	08:08			06:55		07:44 (5)	06:29		07:11 (4)	05:13			04:24		
	15:59	28	10:33 (2)	17:08			18:13	28	08:12 (5)	20:21	77	08:28 (3)	21:27			22:20		
11	09:00		10:05 (2)	08:05			06:53		07:44 (5)	06:26		07:11 (4)	05:11			04:24		
	16:01	29	10:34 (2)	17:10			18:15	28	08:12 (5)	20:23	78	08:29 (3)	21:29			22:21		
12	08:59		10:05 (2)	08:03			06:50		07:44 (5)	06:24		07:11 (4)	05:08			04:23		
	16:03	29	10:34 (2)	17:12			18:17	27	08:11 (5)	20:26	77	08:28 (3)	21:31			22:22		
13	08:58		10:05 (2)	08:00			06:47		07:44 (5)	06:21		07:10 (4)	05:06			04:23		
	16:05	30	10:35 (2)	17:15			18:19	26	08:10 (5)	20:28	78	08:28 (3)	21:34			22:23		
14	08:57		10:05 (2)	07:58			06:44		07:45 (5)	06:18		07:11 (4)	05:04			04:22		
	16:07	30	10:35 (2)	17:17			18:22	24	08:09 (5)	20:30	78	08:29 (3)	21:36			22:24		
15	08:56		10:05 (2)	07:56			06:41		07:46 (5)	06:15		07:10 (4)	05:02			04:22		
	16:09	32	10:37 (2)	17:19			18:24	22	08:08 (5)	20:32	78	08:28 (3)	21:38			22:25		
16	08:55		10:05 (2)	07:53			06:39		07:47 (5)	06:13		07:11 (4)	05:00			04:21		
	16:11	32	10:37 (2)	17:22			18:26	19	08:06 (5)	20:34	78	08:29 (3)	21:40			22:25		
17	08:53		10:05 (2)	07:51			06:36		07:49 (5)	06:10		06:37 (1)	04:58			04:21		
	16:13	32	10:37 (2)	17:24			18:28	14	08:03 (5)	20:37	79	08:28 (3)	21:42			22:26		
18	08:52		10:06 (2)	07:48			06:33		07:52 (5)	06:07		06:34 (1)	04:56			04:21		
	16:15	32	10:38 (2)	17:26			18:30	6	07:58 (5)	20:39	83	08:27 (3)	21:44			22:26		
19	08:50		10:06 (2)	07:46			06:30			06:05		06:32 (1)	04:54			04:21		
	16:17	33	10:39 (2)	17:29			18:33			20:41	85	08:27 (3)	21:46			22:27		
20	08:49		10:06 (2)	07:43			06:28			06:02		06:29 (1)	04:52			04:21		
	16:19	33	10:39 (2)	17:31			18:35			20:43	87	08:26 (3)	21:48			22:27		
21	08:47		10:06 (2)	07:41			06:25			05:59		06:27 (1)	04:50			04:21		
	16:21	33	10:39 (2)	17:34			18:37			20:45	88	08:26 (3)	21:50			22:28		
22	08:46		10:06 (2)	07:38			06:22			05:57		06:24 (1)	04:48			04:21		
	16:23	33	10:39 (2)	17:36			18:39			20:48	85	08:25 (3)	21:52			22:28		
23	08:44		10:06 (2)	07:35			06:19			05:54		06:24 (1)	04:47			04:22		
	16:26	34	10:40 (2)	17:38			18:42			20:50	75	08:25 (3)	21:53			22:28		
24	08:42		10:07 (2)	07:33			06:16			05:52		06:23 (1)	04:45			04:22		
	16:28	33	10:40 (2)	17:41			18:44			20:52	71	08:23 (3)	21:55			22:28		
25	08:41		10:07 (2)	07:30			06:14			05:49		06:24 (1)	04:43			04:22		
	16:30	33	10:40 (2)	17:43			18:46			20:54	69	08:23 (3)	21:57			22:28		
26	08:39		10:08 (2)	07:28			06:11			05:46		06:24 (1)	04:42			04:23		
	16:32	32	10:40 (2)	17:45			18:48			20:57	67	08:22 (3)	21:59			22:28		
27	08:37		10:09 (2)	07:25			06:08			05:44		06:24 (1)	04:40			04:23		
	16:35	31	10:40 (2)	17:47			18:50			20:59	65	08:21 (3)	22:01			22:28		
28	08:35		10:10 (2)	07:22		07:58 (5)	06:05			05:41		06:25 (1)	04:39			04:24		
	16:37	30	10:40 (2)	17:50	4	08:02 (5)	18:53			21:01	61	08:20 (3)	22:02			22:27		
29	08:33		10:09 (2)	07:02			07:02			05:39		06:26 (1)	04:37			04:25		
	16:39	30	10:39 (2)	17:55			19:55			21:03	57	08:19 (3)	22:04			22:27		
30	08:31		10:11 (2)	07:00			07:00		08:00 (3)	05:36		06:27 (1)	04:36			04:25		
	16:42	27	10:38 (2)	19:57			19:57	12	08:12 (3)	21:05	51	08:17 (3)	22:06			22:27		
31	08:29		10:12 (2)	06:57			06:57		07:55 (3)	19:59			04:34			22:27		
	16:44	26	10:38 (2)	22:07			19:59	22	08:17 (3)	22:07			22:07			22:27		
Potential sun hours	227			262			365			429			515			539		
Total, worst case		884			86			443			2091			194				
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.		0,48			0,50			0,93			0,99			1,00				
Total reduction		0,06			0,10			0,32			0,43			0,54				
Total, real		51			9			140			891			104				

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BW - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 21:42	06:21 20:24	07:10 (4) 08:28 (3)	07:25 19:00	08:23 (5) 16:38
2	04:27 22:26	05:17 21:39	06:23 20:21	07:10 (4) 08:27 (3)	07:27 18:57	08:22 (5) 16:36
3	04:28 22:25	05:19 21:37	06:25 20:18	07:10 (4) 08:26 (3)	07:29 18:54	08:22 (5) 16:34
4	04:29 22:24	05:22 21:35	06:27 20:15	07:10 (4) 08:25 (3)	07:31 18:51	08:21 (5) 16:31
5	04:30 22:24	05:24 21:33	06:30 20:13	07:11 (4) 08:23 (3)	07:33 18:49	08:21 (5) 16:29
6	04:31 22:23	05:26 21:30	07:58 (3) 08:12 (3)	06:32 20:10	07:35 18:46	08:20 (5) 16:27
7	04:32 22:22	05:28 21:28	07:54 (3) 08:15 (3)	06:34 20:07	07:38 18:43	08:21 (5) 16:25
8	04:34 22:21	05:30 21:26	07:52 (3) 08:18 (3)	06:36 20:04	07:40 18:40	08:21 (5) 16:22
9	04:35 22:20	05:32 21:23	07:50 (3) 08:20 (3)	06:38 20:01	07:42 18:38	08:22 (5) 16:20
10	04:36 22:19	05:34 21:21	07:48 (3) 08:22 (3)	06:40 19:59	07:44 18:35	08:22 (5) 16:18
11	04:38 22:18	05:36 21:18	07:47 (3) 08:23 (3)	06:42 19:56	07:46 18:32	08:24 (5) 16:16
12	04:39 22:17	05:38 21:16	06:37 (1) 08:24 (3)	06:44 19:53	07:49 18:29	08:25 (5) 16:14
13	04:41 22:15	05:41 21:14	06:35 (1) 08:26 (3)	06:46 19:50	07:51 18:27	08:28 (5) 16:12
14	04:42 22:14	05:43 21:11	06:33 (1) 08:27 (3)	06:49 19:47	07:53 18:24	08:38 (5) 16:10
15	04:44 22:13	05:45 21:09	06:32 (1) 08:28 (3)	06:51 19:45	07:55 18:21	08:06 16:08
16	04:45 22:11	05:47 21:06	06:31 (1) 08:28 (3)	06:53 19:42	07:57 18:19	08:08 16:06
17	04:47 22:10	05:49 21:03	06:31 (1) 08:29 (3)	06:55 19:39	08:00 18:16	08:10 16:04
18	04:49 22:08	05:51 21:01	06:30 (1) 08:29 (3)	06:57 19:36	08:02 18:13	08:13 16:02
19	04:50 22:06	05:53 20:58	06:30 (1) 08:30 (3)	06:59 19:33	08:04 18:11	08:15 16:01
20	04:52 22:05	05:55 20:56	06:30 (1) 08:30 (3)	07:01 19:30	08:06 18:08	08:17 15:59
21	04:54 22:03	05:58 20:53	06:30 (1) 08:31 (3)	07:03 19:28	08:09 18:06	08:19 15:57
22	04:56 22:01	06:00 20:50	06:32 (1) 08:31 (3)	07:05 19:25	08:11 18:03	08:21 15:56
23	04:58 21:59	06:02 20:48	06:34 (1) 08:31 (3)	07:08 19:22	08:13 18:00	08:23 15:54
24	05:00 21:58	06:04 20:45	06:36 (1) 08:31 (3)	07:10 19:19	08:15 17:58	08:25 15:53
25	05:01 21:56	06:06 20:43	06:38 (1) 08:31 (3)	07:12 19:16	07:18 16:55	08:27 15:51
26	05:03 21:54	06:08 20:40	06:40 (1) 08:31 (3)	07:14 19:14	07:20 16:53	08:29 15:50
27	05:05 21:52	06:10 20:37	07:13 (4) 08:30 (3)	07:16 19:11	08:29 (5) 16:50	08:31 15:48
28	05:07 21:50	06:13 20:34	07:12 (4) 08:30 (3)	07:18 19:08	08:27 (5) 16:48	08:33 15:47
29	05:09 21:48	06:15 20:32	07:11 (4) 08:29 (3)	07:20 19:05	08:25 (5) 16:45	08:35 15:46
30	05:11 21:46	06:17 20:29	07:11 (4) 08:29 (3)	07:23 19:02	08:24 (5) 16:43	08:37 15:45
31	05:13 21:44	06:19 20:26	07:11 (4) 08:28 (3)	07:25 19:00	08:25 (5) 16:41	08:37 15:44
Potential sun hours	538	474	386	321	241	207
Total, worst case		1624	821	317	712	534
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.		0,99	0,99	0,92	0,48	0,48
Total reduction		0,50	0,39	0,26	0,07	0,06
Total, real		819	324	83	49	30

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

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

SHADOW - Calendar

Shadow receptor: BX - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:07 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:08	04:33 22:09	05:27 (2) 05:56 (2)	04:26 22:26	05:31 (2) 06:02 (2)	05:15 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	05:32 21:10	04:32 22:10	05:27 (2) 05:56 (2)	04:27 22:26	05:31 (2) 06:03 (2)	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	05:26 (2) 05:57 (2)	04:28 22:25	05:32 (2) 06:03 (2)	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	05:26 (2) 05:57 (2)	04:29 22:24	05:32 (2) 06:03 (2)	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	05:26 (2) 05:57 (2)	04:30 22:24	05:32 (2) 06:03 (2)	05:24 21:33	06:30 20:13	07:33 18:49	07:43 16:29	08:46 15:40
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	05:26 (2) 05:57 (2)	04:31 22:23	05:32 (2) 06:03 (2)	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:04 15:54	08:14 17:01	07:04 18:06	06:37 20:15	05:20 21:21	04:27 22:17	05:27 (2) 05:58 (2)	04:33 22:22	05:33 (2) 06:03 (2)	05:28 21:28	06:34 20:07	07:38 18:43	07:48 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	05:27 (2) 05:58 (2)	04:34 22:21	05:33 (2) 06:03 (2)	05:30 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	05:26 (2) 05:58 (2)	04:35 22:20	05:34 (2) 06:04 (2)	05:32 21:23	06:38 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:08 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	05:27 (2) 05:58 (2)	04:36 22:19	05:34 (2) 06:04 (2)	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:54 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21	05:27 (2) 05:58 (2)	04:38 22:18	05:34 (2) 06:04 (2)	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:09 21:31	04:23 22:22	05:27 (2) 05:59 (2)	04:39 22:16	05:34 (2) 06:03 (2)	05:39 21:16	06:44 19:53	07:49 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	05:28 (2) 05:59 (2)	04:41 22:15	05:35 (2) 06:04 (2)	05:41 21:13	06:47 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:36	04:22 22:24	05:27 (2) 05:59 (2)	04:42 22:14	05:35 (2) 06:03 (2)	05:43 21:11	06:49 19:47	07:53 18:24	08:04 16:10	08:59 15:35
15	08:56 16:09	07:56 17:20	06:42 18:24	06:16 20:32	05:02 21:38	04:22 22:25	05:28 (2) 05:59 (2)	04:44 22:12	05:35 (2) 06:03 (2)	05:45 21:09	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	05:28 (2) 05:59 (2)	04:46 22:11	05:36 (2) 06:03 (2)	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:21 22:26	05:28 (2) 06:00 (2)	04:47 22:09	05:36 (2) 06:02 (2)	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:02 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	05:29 (2) 06:00 (2)	04:49 22:08	05:37 (2) 06:02 (2)	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	05:29 (2) 06:00 (2)	04:51 22:06	05:38 (2) 06:01 (2)	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	05:29 (2) 06:00 (2)	04:52 22:05	05:39 (2) 06:01 (2)	05:56 20:56	07:01 19:31	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:45	04:50 21:50	04:21 22:27	05:29 (2) 06:00 (2)	04:54 22:03	05:40 (2) 06:00 (2)	05:58 20:53	07:03 19:28	08:09 18:06	08:19 15:57	09:05 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:28	05:30 (2) 06:01 (2)	04:56 22:01	05:41 (2) 05:59 (2)	06:00 20:50	07:06 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	05:30 (2) 06:01 (2)	04:58 21:59	05:43 (2) 05:58 (2)	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:30 (2) 06:01 (2)	05:00 21:58	05:45 (2) 05:56 (2)	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:43 21:57	04:23 22:28	05:30 (2) 06:02 (2)	05:02 21:56	05:47 (2) 05:53 (2)	06:06 20:43	07:12 19:16	08:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:57	04:42 21:59	04:23 22:28	05:30 (2) 06:01 (2)	05:04 21:54	06:08 20:40	06:08 20:37	07:14 19:14	08:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:24 22:28	05:31 (2) 06:02 (2)	05:05 21:52	06:11 20:37	06:11 20:37	07:16 19:11	08:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:42 21:01	04:39 22:02	04:24 22:27	05:30 (2) 06:02 (2)	05:07 21:50	06:13 20:34	06:13 20:34	07:18 19:08	08:25 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:31 (2) 06:02 (2)	05:09 21:48	06:15 20:32	06:15 20:32	07:20 19:05	08:27 16:46	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:37 21:05	04:36 22:06	04:26 22:27	05:31 (2) 06:03 (2)	05:11 21:46	06:17 20:29	06:17 20:29	07:23 19:02	08:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07	05:27 (2) 05:56 (2)		05:13 21:44	06:19 20:26			07:31 16:41	08:37 15:44	09:07 15:44
Potential sun hours	227	262	365	429	515	539	933	538	474	386	321	241	207	
Total, worst case					288		933		644					
Sun reduction					0,58		0,53		0,57					
Oper. time red.					0,93		0,93		0,93					
Wind dir. red.					0,86		0,86		0,86					
Total reduction					0,47		0,43		0,45					
Total, real					134		398		292					

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BY - 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
0 1 Sum
4 076 4 076 8 152

		January	February	March	April	May	June	July	August	September	October	November	December	
1	09:07	10:22 (13)	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39	10:10 (13)
	15:45	81	14:45 (10)	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	10:23 (13)	08:25	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36	08:41	10:10 (13)
	15:47	80	14:46 (10)	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	10:24 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43	10:10 (13)
	15:48	79	14:47 (10)	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	10:24 (13)	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:44	10:11 (13)
	15:49	77	14:47 (10)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	10:24 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46	10:11 (13)
	15:51	76	14:47 (10)	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	10:25 (13)	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	08:48	10:11 (13)
	15:52	73	14:49 (10)	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	10:26 (13)	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:47	08:49	10:11 (13)
	15:54	66	14:49 (10)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	10:25 (13)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:51	10:12 (13)
	15:56	66	14:49 (10)	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	10:26 (13)	08:10	06:58	06:31	05:15	04:25	04:34	05:32	06:38	07:42	07:52	08:52	10:13 (13)
	15:57	66	14:49 (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	10:27 (13)	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54	10:13 (13)
	15:59	65	14:50 (10)	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	10:27 (13)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55	10:14 (13)
	16:01	65	14:50 (10)	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	10:27 (13)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56	10:14 (13)
	16:03	65	14:50 (10)	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:35
13	08:58	10:28 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57	10:14 (13)
	16:04	64	14:51 (10)	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	10:28 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59	10:15 (13)
	16:06	63	14:50 (10)	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	10:29 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00	10:15 (13)
	16:08	63	14:51 (10)	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	10:30 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01	10:16 (13)
	16:10	60	14:50 (10)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	10:30 (13)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:02	10:16 (13)
	16:12	59	14:50 (10)	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	10:31 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12	09:02	10:17 (13)
	16:14	57	14:50 (10)	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	10:32 (13)	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03	10:17 (13)
	16:17	55	14:50 (10)	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	10:33 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04	10:18 (13)
	16:19	51	14:49 (10)	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	10:33 (13)	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:05	10:18 (13)
	16:21	48	14:48 (10)	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	10:34 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05	10:18 (13)
	16:23	42	14:46 (10)	17:36	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	10:35 (13)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06	10:19 (13)
	16:25	33	11:08 (13)	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	10:36 (13)	07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25	09:06	10:20 (13)
	16:27	32	11:08 (13)	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	15:37
25	08:40	10:37 (13)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06	10:20 (13)
	16:30	30	11:07 (13)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	10:39 (13)	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07	10:20 (13)
	16:32	27	11:06 (13)	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	10:41 (13)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:09	10:21 (13)
	16:34	24	11:05 (13)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	10:43 (13)	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07	10:21 (13)
	16:37	21	11:04 (13)	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33	10:45 (13)		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07	10:22 (13)
	16:39	16	11:01 (13)		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:42
30	08:31	10:49 (13)		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	09:07	10:22 (13)
	16:41	8	10:57 (13)		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		22:04	04:34		05:13	06:19		07:31	09:07	10:22 (13)
	16:43			19:59		22:07		21:44	20:26		16:40		15:44	15:44
Potential sun hours	227		262	365	429	516	539	539	475	386	321	241	207	
Total, worst case	1612											821		2442
Sun reduction	0,13											0,15		0,13
Oper. time red.	0,93											0,93		0,93
Wind dir. red.	0,40											0,40		0,38
Total reduction	0,05											0,06		0,05
Total, real	79											48		111

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BZ - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1 09:07	10:16 (7)	08:27	07:20	08:08 (10)	06:54	05:34
15:45	95 14:15 (3)	16:46	17:52	28 08:36 (10)	20:01	21:08
2 09:06	10:17 (7)	08:25	07:17	08:07 (10)	06:51	05:31
15:47	94 14:16 (3)	16:48	17:54	29 08:36 (10)	20:03	21:10
3 09:06	10:17 (7)	08:23	07:14	08:07 (10)	06:48	05:29
15:48	92 14:16 (3)	16:51	17:57	28 08:35 (10)	20:06	21:12
4 09:06	10:17 (7)	08:21	07:12	08:08 (10)	06:45	05:26
15:50	88 14:16 (3)	16:53	17:59	27 08:35 (10)	20:08	21:14
5 09:05	10:19 (7)	08:19	07:09	08:08 (10)	06:43	05:24
15:51	85 14:17 (3)	16:55	18:01	26 08:34 (10)	20:10	21:16
6 09:04	10:19 (7)	08:17	07:06	08:09 (10)	06:40	05:22
15:53	79 14:18 (3)	16:58	18:03	24 08:33 (10)	20:12	21:19
7 09:04	10:20 (7)	08:14	07:03	08:10 (10)	06:37	05:19
15:54	73 14:18 (3)	17:00	18:06	21 08:31 (10)	20:14	21:21
8 09:03	10:19 (7)	08:12	07:01	08:11 (10)	06:34	05:17
15:56	72 14:17 (3)	17:03	18:08	18 08:29 (10)	20:17	21:23
9 09:02	10:20 (7)	08:10	06:58	08:14 (10)	06:32	05:15
15:57	71 14:18 (3)	17:05	18:10	13 08:27 (10)	20:19	21:25
10 09:01	10:21 (7)	08:07	06:55	08:18 (10)	06:29	05:13
15:59	66 14:18 (3)	17:07	18:12	4 08:22 (10)	20:21	21:27
11 09:00	10:22 (7)	08:05	08:35 (11)	06:52	06:26	05:10
16:01	63 14:18 (3)	17:10	6 08:41 (11)	18:15	20:23	21:29
12 08:59	10:22 (7)	08:03	08:33 (11)	06:50	06:23	05:08
16:03	58 14:17 (3)	17:12	11 08:44 (11)	18:17	20:25	21:31
13 08:58	10:23 (7)	08:00	08:30 (11)	06:47	06:21	05:06
16:05	54 14:18 (3)	17:15	15 08:45 (11)	18:19	20:28	21:34
14 08:57	10:23 (7)	07:58	08:27 (11)	06:44	06:18	05:04
16:07	46 14:17 (3)	17:17	18 08:45 (11)	18:21	20:30	21:36
15 08:56	10:25 (7)	07:56	08:27 (11)	06:41	06:15	05:02
16:09	36 14:17 (3)	17:19	20 08:47 (11)	18:24	20:32	21:38
16 08:55	10:26 (7)	07:53	08:26 (11)	06:39	06:13	05:00
16:11	32 14:16 (3)	17:22	21 08:47 (11)	18:26	20:34	21:40
17 08:53	10:27 (7)	07:51	08:27 (11)	06:36	06:10	04:58
16:13	28 14:14 (3)	17:24	21 08:48 (11)	18:28	20:37	21:42
18 08:52	10:29 (7)	07:48	08:26 (11)	06:33	06:07	04:56
16:15	20 14:13 (3)	17:26	21 08:47 (11)	18:30	20:39	21:44
19 08:50	10:30 (7)	07:46	08:26 (11)	06:30	06:05	04:54
16:17	11 10:41 (7)	17:29	21 08:47 (11)	18:33	20:41	21:46
20 08:49	10:33 (7)	07:43	08:18 (10)	06:27	06:02	04:52
16:19	5 10:38 (7)	17:31	29 08:47 (11)	18:35	20:43	21:48
21 08:47		07:41	08:15 (10)	06:25	05:59	04:50
16:21		17:33	31 08:46 (11)	18:37	20:45	21:50
22 08:46		07:38	08:13 (10)	06:22	05:57	04:48
16:23		17:36	32 08:45 (11)	18:39	20:48	21:52
23 08:44		07:35	08:11 (10)	06:19	05:54	04:47
16:25		17:38	32 08:43 (11)	18:41	20:50	21:53
24 08:42		07:33	08:11 (10)	06:16	05:51	04:45
16:28		17:40	31 08:42 (11)	18:44	20:52	21:55
25 08:41		07:30	08:10 (10)	06:13	05:49	04:43
16:30		17:43	28 08:38 (11)	18:46	20:54	21:57
26 08:39		07:28	08:09 (10)	06:11	05:46	04:41
16:32		17:45	27 08:36 (10)	18:48	20:56	21:59
27 08:37		07:25	08:08 (10)	06:08	05:44	04:40
16:34		17:47	28 08:36 (10)	18:50	20:59	22:01
28 08:35		07:22	08:08 (10)	06:05	05:41	04:38
16:37		17:50	29 08:37 (10)	18:52	21:01	22:02
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	1168	421	218			
Sun reduction	0,13	0,22	0,37			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,30	0,85	0,87			
Total reduction	0,04	0,17	0,30			
Total, real	43	74	65			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: BZ - 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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25	07:34	08:39
	22:26	21:41	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	08:52 (10)	07:41
	22:24	21:35	20:15	18:51	11 09:03 (10)	16:31
5	04:30	05:23	06:29	07:33	08:49 (10)	07:43
	22:24	21:33	20:12	18:48	16 09:05 (10)	16:29
6	04:31	05:26	06:32	07:35	08:47 (10)	07:45
	22:23	21:30	20:10	18:46	20 09:07 (10)	16:27
7	04:32	05:28	06:34	07:38	08:45 (10)	07:48
	22:22	21:28	20:07	18:43	23 09:08 (10)	16:24
8	04:33	05:30	06:36	07:40	08:44 (10)	07:50
	22:21	21:26	20:04	18:40	25 09:09 (10)	16:22
9	04:35	05:32	06:38	07:42	08:43 (10)	07:52
	22:20	21:23	20:01	18:37	26 09:09 (10)	16:20
10	04:36	05:34	06:40	07:44	08:42 (10)	07:54
	22:19	21:21	19:59	18:35	27 09:09 (10)	16:18
11	04:37	05:36	06:42	07:46	08:42 (10)	07:57
	22:18	21:18	19:56	18:32	28 09:10 (10)	16:16
12	04:39	05:38	06:44	07:48	08:41 (10)	07:59
	22:17	21:16	19:53	18:29	29 09:10 (10)	16:14
13	04:40	05:40	06:46	07:51	08:41 (10)	08:01
	22:15	21:13	19:50	18:27	28 09:09 (10)	16:12
14	04:42	05:43	06:48	07:53	08:41 (10)	08:04
	22:14	21:11	19:47	18:24	29 09:10 (10)	16:10
15	04:43	05:45	06:51	07:55	08:41 (10)	08:06
	22:13	21:08	19:44	18:21	28 09:09 (10)	16:08
16	04:45	05:47	06:53	07:57	08:41 (10)	08:08
	22:11	21:06	19:42	18:19	27 09:08 (10)	16:06
17	04:47	05:49	06:55	08:00	08:42 (10)	08:10
	22:10	21:03	19:39	18:16	30 09:12 (11)	16:04
18	04:48	05:51	06:57	08:02	08:42 (10)	08:13
	22:08	21:01	19:36	18:13	32 09:14 (11)	16:02
19	04:50	05:53	06:59	08:04	08:43 (10)	08:15
	22:06	20:58	19:33	18:11	32 09:15 (11)	16:00
20	04:52	05:55	07:01	08:06	08:45 (10)	08:17
	22:05	20:56	19:30	18:08	31 09:16 (11)	15:59
21	04:54	05:57	07:03	08:09	08:46 (10)	08:19
	22:03	20:53	19:28	18:05	31 09:17 (11)	15:57
22	04:56	06:00	07:05	08:11	08:50 (10)	08:21
	22:01	20:50	19:25	18:03	27 09:17 (11)	15:55
23	04:57	06:02	07:07	08:13	08:56 (11)	08:23
	21:59	20:48	19:22	18:00	21 09:17 (11)	15:54
24	04:59	06:04	07:10	08:15	08:56 (11)	08:25
	21:58	20:45	19:19	17:58	22 09:18 (11)	15:52
25	05:01	06:06	07:12	07:18	07:56 (11)	08:27
	21:56	20:42	19:16	16:55	21 08:17 (11)	15:51
26	05:03	06:08	07:14	07:20	07:56 (11)	08:29
	21:54	20:40	19:14	16:53	20 08:16 (11)	15:49
27	05:05	06:10	07:16	07:22	07:57 (11)	08:31
	21:52	20:37	19:11	16:50	19 08:16 (11)	15:48
28	05:07	06:12	07:18	07:25	07:57 (11)	08:33
	21:50	20:34	19:08	16:48	17 08:14 (11)	15:47
29	05:09	06:15	07:20	07:27	08:00 (11)	08:35
	21:48	20:32	19:05	16:45	14 08:14 (11)	15:46
30	05:11	06:17	07:22	07:29	08:03 (11)	08:37
	21:46	20:29	19:02	16:43	10 08:13 (11)	15:44
31	05:13	06:19		07:31	08:05 (11)	
	21:44	20:26		16:40	5 08:10 (11)	
Potential sun hours	538	474	386	321	241	207
Total, worst case				649	289	2824
Sun reduction				0,31	0,15	0,13
Oper. time red.				0,93	0,93	0,93
Wind dir. red.				0,86	0,37	0,25
Total reduction				0,24	0,05	0,03
Total, real				159	16	83

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CA - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1 09:07		11:06 (11) 08:27	12:39 (10) 07:20	06:54	05:34	04:33
15:45	88	13:43 (7) 16:46	15:54 (1) 17:52	20:01	21:07	22:09
2 09:06		11:07 (11) 08:25	12:40 (10) 07:17	06:51	05:31	04:32
15:47	86	13:43 (7) 16:48	15:51 (1) 17:54	20:03	21:10	22:10
3 09:06		11:07 (11) 08:23	12:42 (10) 07:14	06:48	05:29	04:30
15:48	80	13:12 (10) 16:51	13:16 (10) 17:56	20:06	21:12	22:12
4 09:05		11:07 (11) 08:21	12:43 (10) 07:11	06:45	05:26	04:29
15:49	81	13:13 (10) 16:53	13:15 (10) 17:59	20:08	21:14	22:13
5 09:05		11:08 (11) 08:19	08:52 (12) 07:09	06:43	05:24	04:28
15:51	81	13:13 (10) 16:55	13:13 (10) 18:01	20:10	21:16	22:15
6 09:04		11:09 (11) 08:16	08:50 (12) 07:06	06:40	05:22	04:27
15:52	82	13:15 (10) 16:58	13:12 (10) 18:03	20:12	21:18	22:16
7 09:04		11:10 (11) 08:14	08:48 (12) 07:03	06:37	05:19	04:26
15:54	81	13:15 (10) 17:00	13:08 (10) 18:06	20:14	21:21	22:17
8 09:03		11:10 (11) 08:12	08:47 (12) 07:01	06:34	05:17	04:25
15:56	80	13:15 (10) 17:02	13:02 (10) 18:08	20:17	21:23	22:18
9 09:02		11:10 (11) 08:10	08:46 (12) 06:58	06:32	05:15	04:25
15:57	82	13:16 (10) 17:05	09:09 (12) 18:10	20:19	21:25	22:19
10 09:01		11:11 (11) 08:07	08:46 (12) 06:55	07:22 (13) 06:29	05:12	04:24
15:59	81	13:17 (10) 17:07	09:10 (12) 18:12	7 07:29 (13) 20:21	21:27	22:20
11 09:00		11:12 (11) 08:05	08:45 (12) 06:52	07:19 (13) 06:26	05:10	04:23
16:01	81	13:17 (10) 17:10	09:10 (12) 18:15	12 07:31 (13) 20:23	21:29	22:21
12 08:59		11:13 (11) 08:03	08:44 (12) 06:50	07:16 (13) 06:23	05:08	04:23
16:03	79	13:17 (10) 17:12	09:10 (12) 18:17	17 07:33 (13) 20:25	21:31	22:22
13 08:58		11:14 (11) 08:00	08:44 (12) 06:47	07:13 (13) 06:21	05:06	04:22
16:05	78	13:18 (10) 17:14	09:11 (12) 18:19	20 07:33 (13) 20:28	21:33	22:23
14 08:57		11:14 (11) 07:58	08:44 (12) 06:44	07:10 (13) 06:18	05:04	04:22
16:06	79	13:18 (10) 17:17	09:11 (12) 18:21	24 07:34 (13) 20:30	21:36	22:24
15 08:56		11:16 (11) 07:55	08:44 (12) 06:41	07:08 (13) 06:15	05:02	04:21
16:08	77	13:19 (10) 17:19	09:11 (12) 18:24	27 07:35 (13) 20:32	21:38	22:25
16 08:54		11:16 (11) 07:53	08:44 (12) 06:38	07:05 (13) 06:12	05:00	04:21
16:10	76	13:19 (10) 17:22	09:11 (12) 18:26	30 07:35 (13) 20:34	21:40	22:25
17 08:53		11:17 (11) 07:51	08:44 (12) 06:36	07:04 (13) 06:10	04:58	04:21
16:12	75	13:19 (10) 17:24	09:10 (12) 18:28	31 07:35 (13) 20:36	21:42	22:26
18 08:52		11:19 (11) 07:48	08:45 (12) 06:33	07:03 (13) 06:07	04:56	04:21
16:15	73	13:20 (10) 17:26	09:10 (12) 18:30	32 07:35 (13) 20:39	21:44	22:26
19 08:50		11:20 (11) 07:46	08:45 (12) 06:30	07:02 (13) 06:04	04:54	04:21
16:17	71	13:21 (10) 17:29	09:09 (12) 18:32	33 07:35 (13) 20:41	21:46	22:27
20 08:49		11:22 (11) 07:43	08:46 (12) 06:27	07:02 (13) 06:02	04:52	04:21
16:19	67	13:21 (10) 17:31	09:08 (12) 18:35	32 07:34 (13) 20:43	21:48	22:27
21 08:47		11:24 (11) 07:40	08:47 (12) 06:25	07:03 (13) 05:59	04:50	04:21
16:21	65	15:41 (1) 17:33	09:07 (12) 18:37	31 07:34 (13) 20:45	21:50	22:28
22 08:46		11:28 (11) 07:38	08:49 (12) 06:22	07:03 (13) 05:57	04:48	04:21
16:23	60	15:43 (1) 17:36	09:05 (12) 18:39	31 07:34 (13) 20:48	21:51	22:28
23 08:44		12:32 (10) 07:35	08:51 (12) 06:19	07:03 (13) 05:54	04:46	04:21
16:25	56	15:46 (1) 17:38	09:02 (12) 18:41	29 07:32 (13) 20:50	21:53	22:28
24 08:42		12:32 (10) 07:33	06:16	07:03 (13) 05:51	04:45	04:22
16:28	58	15:48 (1) 17:40	18:44	28 07:31 (13) 20:52	21:55	22:28
25 08:41		12:33 (10) 07:30	06:13	07:04 (13) 05:49	04:43	04:22
16:30	59	15:51 (1) 17:43	18:46	26 07:30 (13) 20:54	21:57	22:28
26 08:39		12:34 (10) 07:27	06:11	07:04 (13) 05:46	04:41	04:22
16:32	61	15:54 (1) 17:45	18:48	24 07:28 (13) 20:56	21:59	22:28
27 08:37		12:35 (10) 07:25	06:08	07:07 (13) 05:44	04:40	04:23
16:34	62	15:56 (1) 17:47	18:50	19 07:26 (13) 20:59	22:01	22:28
28 08:35		12:36 (10) 07:22	06:05	07:08 (13) 05:41	04:38	04:24
16:37	61	15:57 (1) 17:50	18:52	15 07:23 (13) 21:01	22:02	22:27
29 08:33		12:36 (10)	07:02	08:12 (13) 05:39	04:37	04:24
16:39	59	15:56 (1)	19:55	6 08:18 (13) 21:03	22:04	22:27
30 08:31		12:37 (10)	06:59	05:36	04:35	04:25
16:41	56	15:56 (1)	19:57	21:05	22:06	22:27
31 08:29		12:38 (10)	06:57		04:34	
16:44	53	15:55 (1)	19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Total, worst case	2228	642	474			
Sun reduction	0,13	0,22	0,37			
Oper. time red.	0,93	0,93	0,93			
Wind dir. red.	0,19	0,56	0,98			
Total reduction	0,02	0,12	0,33			
Total, real	51	74	158			

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CA - 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
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:24	07:54 (13)	08:39
	22:26	21:41	20:23	18:59	16:38	15:43
2	04:27	05:17	06:23	07:27	07:56 (13)	08:41
	22:26	21:39	20:21	18:57	16:36	15:42
3	04:28	05:19	06:25	07:29	07:58 (13)	08:43
	22:25	21:37	20:18	18:54	16:33	15:41
4	04:29	05:21	06:27	07:31	08:01 (13)	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	15:39
6	04:31	05:25	06:31	07:35	07:45	08:48
	22:23	21:30	20:10	18:46	16:26	15:39
7	04:32	05:28	06:34	07:37	07:47	08:49
	22:22	21:28	20:07	18:43	16:24	15:38
8	04:33	05:30	06:36	07:40	07:50	08:51
	22:21	21:26	20:04	18:40	16:22	15:37
9	04:35	05:32	06:38	07:42	07:52	08:52
	22:20	21:23	20:01	18:37	16:20	15:37
10	04:36	05:34	06:40	07:44	07:54	08:54
	22:19	21:21	19:58	18:35	16:18	15:36
11	04:37	05:36	06:42	07:46	07:57	08:55
	22:18	21:18	19:56	18:32	16:16	15:36
12	04:39	05:38	06:44	07:48	07:59	08:56
	22:16	21:16	19:53	18:29	16:14	15:35
13	04:40	05:40	06:46	07:51	08:01	08:57
	22:15	21:13	19:50	18:26	16:12	15:35
14	04:42	05:42	06:48	08:05 (13)	08:03	08:59
	22:14	21:11	19:47	18:24	16:10	15:35
15	04:43	05:45	06:50	07:58 (13)	08:06	09:00
	22:12	21:08	19:44	18:21	16:08	15:35
16	04:45	05:47	06:53	07:55 (13)	08:08	09:01
	22:11	21:06	19:42	18:18	16:06	15:35
17	04:47	05:49	06:55	07:53 (13)	08:10	09:02
	22:09	21:03	19:39	18:16	16:04	15:35
18	04:48	05:51	06:57	07:51 (13)	08:12	09:02
	22:08	21:01	19:36	18:13	16:02	15:35
19	04:50	05:53	06:59	07:50 (13)	08:15	09:03
	22:06	20:58	19:33	18:10	16:00	15:35
20	04:52	05:55	07:01	07:50 (13)	08:17	09:04
	22:05	20:56	19:30	18:08	15:59	15:36
21	04:54	05:57	07:03	07:49 (13)	08:19	09:05
	22:03	20:53	19:27	18:05	15:57	15:36
22	04:55	06:00	07:05	07:48 (13)	08:21	09:05
	22:01	20:50	19:25	18:03	15:55	15:36
23	04:57	06:02	07:07	07:47 (13)	08:23	09:06
	21:59	20:48	19:22	18:00	15:54	15:37
24	04:59	06:04	07:10	07:46 (13)	08:25	09:06
	21:58	20:45	19:19	17:58	15:52	15:37
25	05:01	06:06	07:12	07:46 (13)	08:27	09:06
	21:56	20:42	19:16	17:55	15:51	15:38
26	05:03	06:08	07:14	07:46 (13)	08:29	09:07
	21:54	20:40	19:13	17:53	15:49	15:39
27	05:05	06:10	07:16	07:45 (13)	08:31	09:07
	21:52	20:37	19:11	17:50	15:48	15:40
28	05:07	06:12	07:18	07:48 (13)	08:33	09:07
	21:50	20:34	19:08	17:48	15:47	15:41
29	05:09	06:14	07:20	07:50 (13)	08:35	09:07
	21:48	20:32	19:05	17:45	15:45	15:42
30	05:11	06:17	07:22	07:52 (13)	08:37	09:07
	21:46	20:29	19:02	17:43	15:44	15:43
31	05:13	06:19		07:31	08:14 (12)	09:07
	21:44	20:26		16:40	15:44	15:44
Potential sun hours	539	475	386	321	241	207
Total, worst case			434	364	1669	2755
Sun reduction			0,43	0,31	0,15	0,13
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			0,98	0,80	0,24	0,18
Total reduction			0,39	0,23	0,03	0,02
Total, real			169	83	56	60

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CB - 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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:16 21:41	06:21 20:24	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:04	05:32 21:10	04:32 22:10	04:27 22:26	05:18 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:43
3	09:06 15:49	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:20 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:42
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:28 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:33	06:30 20:13	07:33 18:49	07:43 16:29	08:46 15:40
6	09:04 15:53	08:17 16:58	07:06 18:04	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:04 15:55	08:14 17:01	07:04 18:06	06:37 20:15	05:20 21:21	04:27 22:17	04:33 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:48 16:25	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:35 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:38	07:52 16:20	08:52 15:37
10	09:01 16:00	08:07 17:08	06:55 18:13	06:29 20:21	05:13 21:27	04:25 22:20	04:36 22:19	05:34 21:21	06:40 19:59	07:44 18:35	07:54 16:18	08:54 15:37
11	09:00 16:01	08:05 17:10	06:53 18:15	06:26 20:23	05:11 21:29	04:24 22:21	04:38 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:26	05:09 21:31	04:23 22:22	04:39 22:16	05:39 21:16	06:44 19:53	07:49 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:47 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:22	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:03 16:10	08:58 15:36
15	08:56 16:09	07:56 17:20	06:41 18:24	06:16 20:32	05:02 21:38	04:22 22:25	04:44 22:12	05:45 21:08	06:51 19:45	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:46 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:37	04:58 21:42	04:22 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:02 15:35
18	08:52 16:15	07:48 17:27	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:03	09:02 15:36
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:51 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:28 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:56 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:41 17:34	06:25 18:37	06:00 20:45	04:50 21:50	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:09 18:06	08:19 15:57	09:05 15:36
22	08:46 16:24	07:38 17:36	06:22 18:39	05:57 20:48	04:49 21:51	04:22 22:28	04:56 22:01	06:00 20:50	07:06 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:42	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:41	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:58	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:41 16:30	07:30 17:43	06:14 18:46	05:49 20:54	04:44 21:57	04:23 22:28	05:02 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:47 20:56	04:42 21:59	04:23 22:28	05:04 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:48	06:08 18:50	05:44 20:59	04:40 22:01	04:24 22:27	05:06 21:52	06:11 20:37	07:16 19:11	07:22 16:50	08:31 15:49	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:53	05:42 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:25 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:46	08:35 15:46	09:07 15:42
30	08:31 16:42		07:00 19:57	05:37 21:05	04:36 22:06	04:26 22:27	05:11 21:46	06:17 20:29	07:23 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:35 22:07		05:13 21:44	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CC - 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

0	1	Sum
4 076	4 076	8 152

	January		February		March		April		May		June		
1	09:07		08:27	09:26 (2)	07:20		06:54	07:55 (5)	05:34	06:23 (4)	04:33	06:13 (3)	
	15:46		16:46	32 09:58 (2)	17:52		20:01	23 08:18 (5)	21:08	29 06:52 (4)	22:09	50 07:03 (3)	
2	09:06		08:25	09:25 (2)	07:17		06:51	07:55 (5)	05:31	06:24 (4)	04:32	06:14 (3)	
	15:47		16:49	33 09:58 (2)	17:54		20:04	21 08:16 (5)	21:10	28 06:52 (4)	22:10	49 07:03 (3)	
3	09:06		08:23	09:25 (2)	07:14		06:48	07:56 (5)	05:29	05:58 (1)	04:31	06:14 (3)	
	15:48		16:51	34 09:59 (2)	17:57		20:06	18 08:14 (5)	21:12	31 06:51 (4)	22:12	48 07:02 (3)	
4	09:05		08:21	09:24 (2)	07:12		06:46	07:59 (5)	05:27	05:56 (1)	04:30	06:14 (3)	
	15:50		16:53	36 10:00 (2)	17:59		20:08	13 08:12 (5)	21:14	35 06:51 (4)	22:13	48 07:02 (3)	
5	09:05		08:19	09:24 (2)	07:09		06:43		05:24	05:54 (1)	04:29	06:14 (3)	
	15:51		16:56	36 10:00 (2)	18:01		20:10		21:16	41 06:53 (3)	22:15	48 07:02 (3)	
6	09:04		08:17	09:24 (2)	07:06		06:40		05:22	05:52 (1)	04:28	06:14 (3)	
	15:53		16:58	37 10:01 (2)	18:04		20:12		21:19	46 06:54 (3)	22:16	48 07:02 (3)	
7	09:04		08:14	09:23 (2)	07:04		06:37		05:20	05:50 (1)	04:27	06:15 (3)	
	15:54		17:00	38 10:01 (2)	18:06		20:15		21:21	52 06:56 (3)	22:17	48 07:03 (3)	
8	09:03		08:12	09:23 (2)	07:01		06:35		05:17	05:48 (1)	04:26	06:15 (3)	
	15:56		17:03	39 10:02 (2)	18:08		20:17		21:23	57 06:57 (3)	22:18	47 07:02 (3)	
9	09:02		08:10	09:23 (2)	06:58		06:32		05:15	05:47 (1)	04:25	06:15 (3)	
	15:58		17:05	38 10:01 (2)	18:10		20:19		21:25	59 06:58 (3)	22:19	47 07:02 (3)	
10	09:01		08:08	09:23 (2)	06:55		06:29		05:13	05:47 (1)	04:24	06:16 (3)	
	15:59		17:08	39 10:02 (2)	18:13		20:21		21:27	60 06:58 (3)	22:20	46 07:02 (3)	
11	09:00		08:05	09:23 (2)	06:53		06:26		05:11	05:47 (1)	04:24	06:16 (3)	
	16:01		17:10	39 10:02 (2)	18:15		20:23		21:29	61 06:59 (3)	22:21	46 07:02 (3)	
12	08:59		08:03	09:24 (2)	06:50		06:24		05:08	05:47 (1)	04:23	06:16 (3)	
	16:03		17:12	38 10:02 (2)	18:17		20:26		21:31	62 06:59 (3)	22:22	46 07:02 (3)	
13	08:58		08:00	09:24 (2)	06:47		06:21		05:06	05:47 (1)	04:23	06:17 (3)	
	16:05		17:15	37 10:01 (2)	18:19		20:28		21:34	62 07:00 (3)	22:23	46 07:03 (3)	
14	08:57		07:58	09:24 (2)	06:44		06:18		05:04	05:48 (1)	04:22	06:17 (3)	
	16:07		17:17	36 10:00 (2)	18:22		20:30		21:36	62 07:00 (3)	22:24	45 07:02 (3)	
15	08:56		07:56	09:25 (2)	06:41		06:15		05:02	05:48 (1)	04:22	06:17 (3)	
	16:09		17:19	35 10:00 (2)	18:24		20:32		21:38	61 07:00 (3)	22:25	45 07:02 (3)	
16	08:55		07:53	09:25 (2)	06:39		06:13		05:00	05:49 (1)	04:22	06:18 (3)	
	16:11		17:22	34 09:59 (2)	18:26		20:34		21:40	59 07:00 (3)	22:25	45 07:03 (3)	
17	08:53		07:51	09:26 (2)	06:36		06:10		04:58	05:51 (1)	04:21	06:18 (3)	
	16:13		17:24	33 09:59 (2)	18:28		20:37		21:42	56 07:00 (3)	22:26	45 07:03 (3)	
18	08:52		07:48	09:27 (2)	06:33	9	07:06 (5)	06:07	04:56	05:55 (1)	04:21	06:18 (3)	
	16:15		17:27	31 09:58 (2)	18:30		20:39		21:44	50 07:01 (3)	22:26	45 07:03 (3)	
19	08:50		07:46	09:28 (2)	06:30		07:02 (5)	06:05	04:54	06:12 (3)	04:21	06:18 (3)	
	16:17		17:29	28 09:56 (2)	18:33	16	07:18 (5)	20:41	21:46	49 07:01 (3)	22:27	45 07:03 (3)	
20	08:49		07:43	09:30 (2)	06:28		07:01 (5)	06:02	06:35 (4)	04:52	06:11 (3)	04:21	06:19 (3)
	16:19		17:31	25 09:55 (2)	18:35	20	07:21 (5)	20:43	9 06:44 (4)	21:48	50 07:01 (3)	22:27	44 07:03 (3)
21	08:47		07:41	09:31 (2)	06:25		06:59 (5)	05:59	06:33 (4)	04:50	06:12 (3)	04:21	06:19 (3)
	16:21		17:34	22 09:53 (2)	18:37	22	07:21 (5)	20:45	14 06:47 (4)	21:50	50 07:02 (3)	22:28	44 07:03 (3)
22	08:46		07:38	09:33 (2)	06:22		06:57 (5)	05:57	06:30 (4)	04:49	06:11 (3)	04:21	06:19 (3)
	16:23		17:36	16 09:49 (2)	18:39	25	07:22 (5)	20:48	18 06:48 (4)	21:52	50 07:01 (3)	22:28	44 07:03 (3)
23	08:44		07:35	09:38 (2)	06:19		06:56 (5)	05:54	06:29 (4)	04:47	06:12 (3)	04:22	06:19 (3)
	16:26		17:38	6 09:44 (2)	18:42	26	07:22 (5)	20:50	21 06:50 (4)	21:53	50 07:02 (3)	22:28	45 07:04 (3)
24	08:42		07:33		06:16		06:55 (5)	05:52	06:27 (4)	04:45	06:11 (3)	04:22	06:19 (3)
	16:28		17:41		18:44	27	07:22 (5)	20:52	23 06:50 (4)	21:55	51 07:02 (3)	22:28	45 07:04 (3)
25	08:41	09:36 (2)	07:30		06:14		06:54 (5)	05:49	06:26 (4)	04:43	06:12 (3)	04:22	06:20 (3)
	16:30	7 09:43 (2)	17:43		18:46	28	07:22 (5)	20:54	25 06:51 (4)	21:57	50 07:02 (3)	22:28	45 07:05 (3)
26	08:39	09:33 (2)	07:28		06:11		06:54 (5)	05:46	06:26 (4)	04:42	06:12 (3)	04:23	06:20 (3)
	16:32	14 09:47 (2)	17:45		18:48	29	07:23 (5)	20:57	26 06:52 (4)	21:59	50 07:02 (3)	22:28	45 07:05 (3)
27	08:37	09:31 (2)	07:25		06:08		06:54 (5)	05:44	06:24 (4)	04:40	06:12 (3)	04:23	06:20 (3)
	16:35	19 09:50 (2)	17:48		18:50	28	07:22 (5)	20:59	28 06:52 (4)	22:01	50 07:02 (3)	22:28	46 07:06 (3)
28	08:35	09:30 (2)	07:22		06:05		06:53 (5)	05:41	06:24 (4)	04:39	06:12 (3)	04:24	06:20 (3)
	16:37	22 09:52 (2)	17:50		18:53	29	07:22 (5)	21:01	29 06:53 (4)	22:02	50 07:02 (3)	22:27	45 07:05 (3)
29	08:33	09:28 (2)			07:02		07:53 (5)	05:39	06:24 (4)	04:37	06:12 (3)	04:25	06:20 (3)
	16:39	25 09:53 (2)			19:55	28	08:21 (5)	21:03	29 06:53 (4)	22:04	50 07:02 (3)	22:27	46 07:06 (3)
30	08:31	09:27 (2)			07:00		07:54 (5)	05:36	06:23 (4)	04:36	06:13 (3)	04:25	06:21 (3)
	16:42	28 09:55 (2)			19:57	27	08:21 (5)	21:05	29 06:52 (4)	22:06	49 07:02 (3)	22:27	46 07:07 (3)
31	08:29	09:26 (2)			06:57		07:54 (5)			04:34	06:13 (3)		
	16:44	30 09:56 (2)			19:59	26	08:20 (5)			22:07	50 07:03 (3)		
Potential sun hours	227		262		365		429		515		539		
Total, worst case	145		742		340		326		1560		1382		
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.	0,65		0,65		0,99		0,97		0,95		0,95		
Total reduction	0,08		0,13		0,34		0,42		0,51		0,47		
Total, real	11		99		114		136		800		651		

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CC - 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
0 1 Sum
4 076 4 076 8 152

	July		August		September		October		November		December	
1	04:26		06:20 (3)	05:15	05:57 (1)	06:21		07:25		07:34	08:53 (2)	08:39
	22:26	46	07:06 (3)	21:41	07:09 (3)	20:24		19:00		16:38	09:32 (2)	15:44
2	04:27		06:20 (3)	05:17	05:57 (1)	06:23		07:27		07:36	08:52 (2)	08:41
	22:26	47	07:07 (3)	21:39	07:09 (3)	20:21		18:57		16:36	09:31 (2)	15:42
3	04:28		06:20 (3)	05:19	05:57 (1)	06:25		07:29		07:38	08:53 (2)	08:43
	22:25	47	07:07 (3)	21:37	07:08 (3)	20:18		18:54		16:34	09:31 (2)	15:42
4	04:29		06:21 (3)	05:22	05:56 (1)	06:27		07:31		07:41	08:53 (2)	08:44
	22:24	47	07:08 (3)	21:35	07:06 (3)	20:15		18:51		16:31	09:31 (2)	15:41
5	04:30		06:21 (3)	05:24	05:58 (1)	06:30		07:33		07:43	08:53 (2)	08:46
	22:24	47	07:08 (3)	21:33	07:06 (3)	20:13		18:49		16:29	09:31 (2)	15:40
6	04:31		06:21 (3)	05:26	06:00 (1)	06:32		07:35		07:45	08:53 (2)	08:48
	22:23	47	07:08 (3)	21:30	07:05 (3)	20:10		18:46		16:27	09:30 (2)	15:39
7	04:32		06:21 (3)	05:28	06:02 (1)	06:34		07:38		07:48	08:54 (2)	08:49
	22:22	47	07:08 (3)	21:28	07:03 (3)	20:07		18:43		16:25	09:30 (2)	15:38
8	04:34		06:21 (3)	05:30	06:04 (1)	06:36		07:40		07:50	08:55 (2)	08:51
	22:21	48	07:09 (3)	21:26	07:02 (3)	20:04	12	08:06 (5)	18:40	16:22	09:30 (2)	15:38
9	04:35		06:20 (3)	05:32	06:06 (1)	06:38		07:51 (5)	07:42	07:52	08:56 (2)	08:52
	22:20	49	07:09 (3)	21:23	07:00 (4)	20:01	17	08:08 (5)	18:38	16:20	09:29 (2)	15:37
10	04:36		06:21 (3)	05:34	06:08 (1)	06:40		07:49 (5)	07:44	07:54	08:57 (2)	08:54
	22:19	49	07:10 (3)	21:21	07:01 (4)	19:59	20	08:09 (5)	18:35	16:18	09:28 (2)	15:37
11	04:38		06:21 (3)	05:36	06:32 (4)	06:42		07:47 (5)	07:46	07:57	08:57 (2)	08:55
	22:18	49	07:10 (3)	21:18	07:01 (4)	19:56	23	08:10 (5)	18:32	16:16	09:27 (2)	15:36
12	04:39		06:21 (3)	05:38	06:32 (4)	06:44		07:46 (5)	07:49	07:59	08:59 (2)	08:56
	22:16	49	07:10 (3)	21:16	07:01 (4)	19:53	25	08:11 (5)	18:29	16:14	09:26 (2)	15:36
13	04:41		06:20 (3)	05:41	06:32 (4)	06:47		07:44 (5)	07:51	08:01	09:00 (2)	08:58
	22:15	50	07:10 (3)	21:14	07:01 (4)	19:50	27	08:11 (5)	18:27	16:12	09:25 (2)	15:36
14	04:42		06:21 (3)	05:43	06:32 (4)	06:49		07:43 (5)	07:53	08:04	09:02 (2)	08:59
	22:14	50	07:11 (3)	21:11	07:00 (4)	19:47	28	08:11 (5)	18:24	16:10	09:24 (2)	15:35
15	04:44		06:21 (3)	05:45	06:32 (4)	06:51		07:43 (5)	07:55	08:06	09:04 (2)	09:00
	22:12	50	07:11 (3)	21:09	07:00 (4)	19:45	28	08:11 (5)	18:21	16:08	09:23 (2)	15:35
16	04:45		06:21 (3)	05:47	06:32 (4)	06:53		07:42 (5)	07:57	08:08	09:06 (2)	09:01
	22:11	50	07:11 (3)	21:06	06:59 (4)	19:42	29	08:11 (5)	18:19	16:06	09:20 (2)	15:35
17	04:47		06:21 (3)	05:49	06:32 (4)	06:55		07:43 (5)	08:00	08:10	09:10 (2)	09:02
	22:10	50	07:11 (3)	21:03	06:59 (4)	19:39	29	08:12 (5)	18:16	16:04	09:17 (2)	15:35
18	04:49		06:21 (3)	05:51	06:33 (4)	06:57		07:42 (5)	08:02	08:13		09:03
	22:08	51	07:12 (3)	21:01	06:58 (4)	19:36	29	08:11 (5)	18:13	16:02		15:35
19	04:50		06:21 (3)	05:53	06:34 (4)	06:59		07:42 (5)	08:04		10:07 (2)	09:03
	22:06	50	07:11 (3)	20:58	06:57 (4)	19:33	28	08:10 (5)	18:11	10:17 (2)	16:01	15:36
20	04:52		06:21 (3)	05:56	06:34 (4)	07:01		07:42 (5)	08:06	10:04 (2)	08:17	09:04
	22:05	51	07:12 (3)	20:56	06:55 (4)	19:30	27	08:09 (5)	18:08	10:22 (2)	15:59	15:36
21	04:54		06:22 (3)	05:58	06:36 (4)	07:03		07:43 (5)	08:09	10:01 (2)	08:19	09:05
	22:03	50	07:12 (3)	20:53	06:54 (4)	19:28	25	08:08 (5)	18:06	10:24 (2)	15:57	15:36
22	04:56		06:21 (3)	06:00	06:38 (4)	07:05		07:43 (5)	08:11	09:59 (2)	08:21	09:05
	22:01	51	07:12 (3)	20:50	06:51 (4)	19:25	23	08:06 (5)	18:03	10:26 (2)	15:56	15:37
23	04:58		06:22 (3)	06:02	06:41 (4)	07:08		07:44 (5)	08:13	09:58 (2)	08:23	09:06
	21:59	50	07:12 (3)	20:48	06:48 (4)	19:22	21	08:05 (5)	18:00	10:27 (2)	15:54	15:37
24	05:00		06:22 (3)	06:04		07:10		07:45 (5)	08:15	09:57 (2)	08:25	09:06
	21:58	50	07:12 (3)	20:45		19:19	17	08:02 (5)	17:58	10:28 (2)	15:53	15:38
25	05:01		06:22 (3)	06:06		07:12		07:47 (5)	07:18	08:55 (2)	08:27	09:06
	21:56	49	07:11 (3)	20:43		19:16	12	07:59 (5)	16:55	09:29 (2)	15:51	15:39
26	05:03		06:03 (1)	06:08		07:14			07:20	08:55 (2)	08:29	09:07
	21:54	55	07:12 (3)	20:40		19:14			16:53	09:30 (2)	15:50	15:39
27	05:05		06:01 (1)	06:10		07:16			07:22	08:54 (2)	08:31	09:07
	21:52	59	07:12 (3)	20:37		19:11			16:50	09:30 (2)	15:48	15:40
28	05:07		06:00 (1)	06:13		07:18			07:25	08:54 (2)	08:33	09:07
	21:50	60	07:11 (3)	20:34		19:08			16:48	09:31 (2)	15:47	15:41
29	05:09		05:58 (1)	06:15		07:20			07:27	08:53 (2)	08:35	09:07
	21:48	61	07:10 (3)	20:32		19:05			16:45	09:31 (2)	15:46	15:42
30	05:11		05:58 (1)	06:17		07:23			07:29	08:53 (2)	08:37	09:07
	21:46	61	07:10 (3)	20:29		19:02			16:43	09:31 (2)	15:45	15:43
31	05:13		05:57 (1)	06:19					07:31	08:52 (2)		09:07
	21:44	63	07:10 (3)	20:26					16:41	09:31 (2)		15:44
Potential sun hours	538			474		386		321		241		207
Total, worst case	1583			797		420		395		508		
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.	0,95			0,96		0,99		0,65		0,65		
Total reduction	0,50			0,49		0,39		0,18		0,09		
Total, real	792			387		166		73		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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CD - 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
 0 1 Sum
 4 076 4 076 8 152

	January		February		March		April		May	June
1	09:07		11:49 (11)	08:27	09:18 (12)	07:20	07:47 (13)	06:54	05:34	04:33
	15:45	66	13:48 (10)	16:46	13:44 (10)	17:52	08:14 (13)	20:01	21:07	22:09
2	09:06		11:50 (11)	08:25	09:18 (12)	07:17	07:44 (13)	06:51	05:31	04:31
	15:47	66	13:49 (10)	16:48	09:46 (12)	17:54	08:14 (13)	20:03	21:10	22:10
3	09:06		11:51 (11)	08:23	09:18 (12)	07:14	07:42 (13)	06:48	05:29	04:30
	15:48	65	13:49 (10)	16:51	09:46 (12)	17:56	08:15 (13)	20:06	21:12	22:12
4	09:05		11:51 (11)	08:21	09:18 (12)	07:11	07:41 (13)	06:45	05:26	04:29
	15:49	65	13:50 (10)	16:53	09:46 (12)	17:59	08:15 (13)	20:08	21:14	22:13
5	09:05		11:52 (11)	08:19	09:18 (12)	07:09	07:41 (13)	06:43	05:24	04:28
	15:51	64	13:50 (10)	16:55	09:46 (12)	18:01	08:16 (13)	20:10	21:16	22:15
6	09:04		11:54 (11)	08:16	09:19 (12)	07:06	07:40 (13)	06:40	05:22	04:27
	15:52	63	13:52 (10)	16:58	09:47 (12)	18:03	08:16 (13)	20:12	21:18	22:16
7	09:04		11:55 (11)	08:14	09:19 (12)	07:03	07:39 (13)	06:37	05:19	04:26
	15:54	62	13:52 (10)	17:00	09:46 (12)	18:06	08:16 (13)	20:14	21:21	22:17
8	09:03		11:55 (11)	08:12	09:20 (12)	07:01	07:39 (13)	06:34	05:17	04:25
	15:56	61	13:52 (10)	17:02	09:46 (12)	18:08	08:15 (13)	20:17	21:23	22:18
9	09:02		11:57 (11)	08:10	09:21 (12)	06:58	07:39 (13)	06:32	05:15	04:25
	15:57	59	13:52 (10)	17:05	09:44 (12)	18:10	08:15 (13)	20:19	21:25	22:19
10	09:01		11:58 (11)	08:07	09:22 (12)	06:55	07:40 (13)	06:29	05:12	04:24
	15:59	57	13:53 (10)	17:07	09:44 (12)	18:12	08:15 (13)	20:21	21:27	22:20
11	09:00		12:00 (11)	08:05	09:23 (12)	06:52	07:40 (13)	06:26	05:10	04:23
	16:01	56	13:54 (10)	17:10	09:42 (12)	18:15	08:14 (13)	20:23	21:29	22:21
12	08:59		12:02 (11)	08:03	09:24 (12)	06:50	07:40 (13)	06:23	05:08	04:23
	16:03	50	13:53 (10)	17:12	09:40 (12)	18:17	08:13 (13)	20:25	21:31	22:22
13	08:58		13:13 (10)	08:00	09:27 (12)	06:47	07:40 (13)	06:21	05:06	04:22
	16:05	41	13:54 (10)	17:14	09:38 (12)	18:19	08:12 (13)	20:28	21:33	22:23
14	08:57		13:13 (10)	07:58		06:44	07:40 (13)	06:18	05:04	04:22
	16:06	41	13:54 (10)	17:17		18:21	08:11 (13)	20:30	21:35	22:24
15	08:56		13:14 (10)	07:55		06:41	07:41 (13)	06:15	05:02	04:21
	16:08	41	13:55 (10)	17:19		18:24	08:09 (13)	20:32	21:38	22:25
16	08:54		13:14 (10)	07:53		06:38	07:43 (13)	06:12	05:00	04:21
	16:10	41	13:55 (10)	17:21		18:26	08:08 (13)	20:34	21:40	22:25
17	08:53		13:14 (10)	07:51		06:36	07:44 (13)	06:10	04:58	04:21
	16:12	41	13:55 (10)	17:24		18:28	08:05 (13)	20:36	21:42	22:26
18	08:52		13:16 (10)	07:48		06:33	07:47 (13)	06:07	04:56	04:21
	16:15	40	13:56 (10)	17:26		18:30	08:02 (13)	20:39	21:44	22:26
19	08:50		13:16 (10)	07:46		06:30	07:51 (13)	06:04	04:54	04:21
	16:17	39	13:55 (10)	17:29		18:32	07:57 (13)	20:41	21:46	22:27
20	08:49		13:16 (10)	07:43		06:27		06:02	04:52	04:21
	16:19	39	13:55 (10)	17:31		18:35		20:43	21:48	22:27
21	08:47		13:17 (10)	07:40		06:25		05:59	04:50	04:21
	16:21	38	13:55 (10)	17:33		18:37		20:45	21:50	22:28
22	08:46		09:25 (12)	07:38		06:22		05:57	04:48	04:21
	16:23	46	13:55 (10)	17:36		18:39		20:48	21:51	22:28
23	08:44		09:23 (12)	07:35		06:19		05:54	04:46	04:21
	16:25	51	13:55 (10)	17:38		18:41		20:50	21:53	22:28
24	08:42		09:21 (12)	07:33	08:01 (13)	06:16		05:51	04:45	04:22
	16:27	52	13:54 (10)	17:40	08:02 (13)	18:43		20:52	21:55	22:28
25	08:41		09:21 (12)	07:30	07:58 (13)	06:13		05:49	04:43	04:22
	16:30	53	13:54 (10)	17:43	08:07 (13)	18:46		20:54	21:57	22:28
26	08:39		09:20 (12)	07:27	07:55 (13)	06:11		05:46	04:41	04:22
	16:32	53	13:54 (10)	17:45	08:09 (13)	18:48		20:56	21:59	22:28
27	08:37		09:19 (12)	07:25	07:52 (13)	06:08		05:44	04:40	04:23
	16:34	54	13:53 (10)	17:47	08:11 (13)	18:50		20:59	22:01	22:28
28	08:35		09:19 (12)	07:22	07:50 (13)	06:05		05:41	04:38	04:24
	16:37	52	13:52 (10)	17:50	08:13 (13)	18:52		21:01	22:02	22:27
29	08:33		09:18 (12)			07:02		05:39	04:37	04:24
	16:39	51	13:50 (10)			19:55		21:03	22:04	22:27
30	08:31		09:18 (12)			06:59		05:36	04:35	04:25
	16:41	48	13:49 (10)			19:57		21:05	22:06	22:27
31	08:29		09:18 (12)			06:57			04:34	
	16:44	43	13:47 (10)			19:59			22:07	
Potential sun hours	227		262		365		429	515	539	
Total, worst case	1598		387		564					
Sun reduction	0,13		0,22		0,37					
Oper. time red.	0,93		0,93		0,93					
Wind dir. red.	0,31		0,70		0,92					
Total reduction	0,04		0,14		0,31					
Total, real	60		56		177					

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

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes 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: CD - Vecmolderi
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December				
1	04:26	05:15	06:21	07:24	08:19 (13)	07:34	08:51 (12)	08:39	11:43 (11)	
	22:26	21:41	20:23	18:59	33 08:52 (13)	16:38	23 09:14 (12)	15:43	55 13:36 (10)	
2	04:27	05:17	06:23	07:27	08:18 (13)	07:36	08:50 (12)	08:41	11:42 (11)	
	22:26	21:39	20:21	18:57	34 08:52 (13)	16:36	24 09:14 (12)	15:42	56 13:36 (10)	
3	04:28	05:19	06:25	07:29	08:17 (13)	07:38	08:50 (12)	08:43	11:41 (11)	
	22:25	21:37	20:18	18:54	35 08:52 (13)	16:33	25 09:15 (12)	15:41	59 13:36 (10)	
4	04:29	05:21	06:27	07:31	08:17 (13)	07:41	08:49 (12)	08:44	11:40 (11)	
	22:24	21:35	20:15	18:51	36 08:53 (13)	16:31	26 09:15 (12)	15:40	61 13:37 (10)	
5	04:30	05:23	06:29	07:33	08:16 (13)	07:43	08:49 (12)	08:46	11:40 (11)	
	22:24	21:32	20:12	18:48	36 08:52 (13)	16:29	27 09:16 (12)	15:39	62 13:37 (10)	
6	04:31	05:25	06:31	07:35	08:16 (13)	07:45	08:48 (12)	08:48	11:39 (11)	
	22:23	21:30	20:10	18:46	36 08:52 (13)	16:26	28 09:16 (12)	15:39	63 13:37 (10)	
7	04:32	05:27	06:34	07:37	08:15 (13)	07:47	08:48 (12)	08:49	11:39 (11)	
	22:22	21:28	20:07	18:43	36 08:51 (13)	16:24	29 09:17 (12)	15:38	63 13:37 (10)	
8	04:33	05:30	06:36	07:40	08:16 (13)	07:50	08:48 (12)	08:51	11:40 (11)	
	22:21	21:26	20:04	18:40	36 08:52 (13)	16:22	28 09:16 (12)	15:37	65 13:38 (10)	
9	04:35	05:32	06:38	07:42	08:16 (13)	07:52	08:48 (12)	08:52	11:40 (11)	
	22:20	21:23	20:01	18:37	35 08:51 (13)	16:20	29 09:17 (12)	15:37	65 13:38 (10)	
10	04:36	05:34	06:40	07:44	08:16 (13)	07:54	08:49 (12)	08:54	11:40 (11)	
	22:19	21:21	19:58	18:35	34 08:50 (13)	16:18	38 13:15 (10)	15:36	65 13:38 (10)	
11	04:37	05:36	06:42	07:46	08:16 (13)	07:57	08:49 (12)	08:55	11:40 (11)	
	22:18	21:18	19:56	18:32	32 08:48 (13)	16:16	44 13:18 (10)	15:36	66 13:39 (10)	
12	04:39	05:38	06:44	07:48	08:19 (13)	07:59	08:50 (12)	08:56	11:40 (11)	
	22:16	21:16	19:53	18:29	29 08:48 (13)	16:14	48 13:21 (10)	15:35	66 13:39 (10)	
13	04:40	05:40	06:46	07:51	08:21 (13)	08:01	08:50 (12)	08:57	11:40 (11)	
	22:15	21:13	19:50	18:26	25 08:46 (13)	16:12	50 13:22 (10)	15:35	66 13:39 (10)	
14	04:42	05:42	06:48	07:53	08:23 (13)	08:03	08:51 (12)	08:59	11:41 (11)	
	22:14	21:11	19:47	18:24	21 08:44 (13)	16:10	52 13:24 (10)	15:35	66 13:40 (10)	
15	04:43	05:45	06:50	07:55	08:26 (13)	08:06	08:51 (12)	09:00	11:41 (11)	
	22:12	21:08	19:44	18:21	17 08:43 (13)	16:08	53 13:25 (10)	15:35	67 13:40 (10)	
16	04:45	05:47	06:53	07:57	08:28 (13)	08:08	08:53 (12)	09:01	11:41 (11)	
	22:11	21:06	19:42	18:18	13 08:41 (13)	16:06	53 13:27 (10)	15:35	67 13:41 (10)	
17	04:47	05:49	06:55	07:59	08:30 (13)	08:10	08:55 (12)	09:02	11:42 (11)	
	22:09	21:03	19:39	18:16	7 08:37 (13)	16:04	53 13:28 (10)	15:35	67 13:41 (10)	
18	04:48	05:51	06:57	08:02		08:12	08:55 (12)	09:02	11:42 (11)	
	22:08	21:01	19:36	18:13		16:02	52 13:28 (10)	15:35	67 13:42 (10)	
19	04:50	05:53	06:59	08:04		08:15	08:58 (12)	09:03	11:42 (11)	
	22:06	20:58	19:33	18:10		16:00	51 13:30 (10)	15:35	66 13:41 (10)	
20	04:52	05:55	07:01	08:06		08:17	09:00 (12)	09:04	11:43 (11)	
	22:05	20:56	19:30	18:08		15:59	46 13:30 (10)	15:35	67 13:42 (10)	
21	04:54	05:57	07:03	08:08		08:19	12:53 (10)	09:05	11:43 (11)	
	22:03	20:53	19:27	18:05		15:57	38 13:31 (10)	15:36	68 13:43 (10)	
22	04:55	05:59	07:05	08:11		08:21	12:52 (10)	09:05	11:43 (11)	
	22:01	20:50	19:25	18:03		15:55	39 13:31 (10)	15:36	68 13:43 (10)	
23	04:57	06:02	07:07	08:13		08:23	12:52 (10)	09:06	11:45 (11)	
	21:59	20:48	19:22	18:00		15:54	40 13:32 (10)	15:37	67 13:44 (10)	
24	04:59	06:04	07:10	08:15		08:25	12:53 (10)	09:06	11:45 (11)	
	21:58	20:45	19:19	17:58		15:52	40 13:33 (10)	15:37	67 13:44 (10)	
25	05:01	06:06	07:12	08:31 (13)	07:18	08:27	12:52 (10)	09:06	11:45 (11)	
	21:56	20:42	19:16	13 08:44 (13)	16:55	15:51	41 13:33 (10)	15:38	67 13:45 (10)	
26	05:03	06:08	07:14	08:27 (13)	07:20	08:29	12:53 (10)	09:07	11:46 (11)	
	21:54	20:40	19:13	19 08:46 (13)	16:53	15:49	41 13:34 (10)	15:39	67 13:45 (10)	
27	05:05	06:10	07:16	08:25 (13)	07:22	08:31	12:53 (10)	09:07	11:46 (11)	
	21:52	20:37	19:11	23 08:48 (13)	16:50	15:48	41 13:34 (10)	15:40	67 13:45 (10)	
28	05:07	06:12	07:18	08:23 (13)	07:24	08:33	12:53 (10)	09:07	11:47 (11)	
	21:50	20:34	19:08	27 08:50 (13)	16:48	15:47	41 13:34 (10)	15:41	66 13:46 (10)	
29	05:09	06:14	07:20	08:22 (13)	07:27	08:56 (12)	08:35	12:53 (10)	09:07	11:48 (11)
	21:48	20:32	19:05	29 08:51 (13)	16:45	12 09:08 (12)	15:45	41 13:34 (10)	15:42	66 13:47 (10)
30	05:11	06:17	07:22	08:20 (13)	07:29	08:53 (12)	08:37	11:43 (11)	09:07	11:47 (11)
	21:46	20:29	19:02	32 08:52 (13)	16:43	17 09:10 (12)	15:44	51 13:35 (10)	15:43	68 13:47 (10)
31	05:13	06:19		07:31	08:52 (12)			09:07	11:49 (11)	
	21:44	20:26		16:40	20 09:12 (12)			15:44	66 13:48 (10)	
Potential sun hours	539	475	386	321	241		207			
Total, worst case			143	544	1192		2016			
Sun reduction			0,43	0,31	0,15		0,13			
Oper. time red.			0,93	0,93	0,93		0,93			
Wind dir. red.			0,92	0,90	0,44		0,20			
Total reduction			0,37	0,26	0,06		0,02			
Total, real			53	139	75		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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CE - 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
0 1 Sum
4 076 4 076 8 152

January		February		March		April		May		June	
1	09:07	10:36 (11)	08:27	11:55 (10)	07:20	7	08:33 (12)	06:54	07:51 (13)	05:34	04:33
	15:45	90	13:29 (7)	16:46	68	15:50 (1)	17:52	15	08:06 (13)	21:07	22:09
2	09:06	10:37 (11)	08:25	11:55 (10)	07:17		08:40 (12)	20:01	07:54 (13)	05:31	04:32
	15:47	88	13:29 (7)	16:48	55	15:47 (1)	17:54	8	08:02 (13)	21:10	22:10
3	09:06	10:37 (11)	08:23	11:56 (10)	07:14			06:48		05:29	04:30
	15:48	82	12:34 (10)	16:51	49	12:45 (10)	17:56	20:06		21:12	22:12
4	09:05	10:38 (11)	08:21	11:56 (10)	07:11			06:45		05:26	04:29
	15:49	82	12:34 (10)	16:53	47	12:43 (10)	17:59	20:08		21:14	22:13
5	09:05	10:38 (11)	08:19	11:57 (10)	07:09			06:43		05:24	04:28
	15:51	83	12:35 (10)	16:55	46	12:43 (10)	18:01	20:10		21:16	22:15
6	09:04	10:39 (11)	08:16	11:59 (10)	07:06			06:40		05:22	04:27
	15:52	83	12:36 (10)	16:58	44	12:43 (10)	18:03	20:12		21:18	22:16
7	09:04	10:40 (11)	08:14	12:00 (10)	07:03			06:37		05:19	04:26
	15:54	84	12:37 (10)	17:00	41	12:41 (10)	18:06	20:14		21:21	22:17
8	09:03	10:39 (11)	08:12	12:01 (10)	07:01			06:34		05:17	04:25
	15:56	85	12:37 (10)	17:03	39	12:40 (10)	18:08	20:17		21:23	22:18
9	09:02	10:40 (11)	08:10	12:03 (10)	06:58			06:32		05:15	04:25
	15:57	86	12:38 (10)	17:05	35	12:38 (10)	18:10	20:19		21:25	22:19
10	09:01	10:40 (11)	08:07	12:05 (10)	06:55			06:29		05:12	04:24
	15:59	89	15:15 (4)	17:07	32	12:37 (10)	18:12	20:21		21:27	22:20
11	09:00	10:41 (11)	08:05	12:07 (10)	06:52			06:26		05:10	04:23
	16:01	93	15:18 (4)	17:10	27	12:34 (10)	18:15	20:23		21:29	22:21
12	08:59	10:41 (11)	08:03	08:35 (12)	06:50			06:23		05:08	04:23
	16:03	95	15:19 (4)	17:12	29	12:32 (10)	18:17	20:25		21:31	22:22
13	08:58	10:42 (11)	08:00	08:31 (12)	06:47			06:21		05:06	04:22
	16:05	99	15:22 (4)	17:14	26	12:27 (10)	18:19	20:28		21:33	22:23
14	08:57	10:42 (11)	07:58	08:29 (12)	06:44			06:18		05:04	04:22
	16:06	102	15:24 (4)	17:17	17	08:46 (12)	18:21	20:30		21:36	22:24
15	08:56	10:43 (11)	07:55	08:28 (12)	06:41		07:08 (13)	06:15		05:02	04:21
	16:08	103	15:27 (4)	17:19	20	08:48 (12)	18:24	20:32		21:38	22:25
16	08:54	10:43 (11)	07:53	08:27 (12)	06:39		07:05 (13)	06:12		05:00	04:21
	16:10	105	15:28 (4)	17:22	22	08:49 (12)	18:26	20:34		21:40	22:25
17	08:53	10:43 (11)	07:51	08:25 (12)	06:36		07:02 (13)	06:10		04:58	04:21
	16:12	109	15:30 (4)	17:24	24	08:49 (12)	18:28	20:36		21:42	22:26
18	08:52	10:45 (11)	07:48	08:25 (12)	06:33		06:59 (13)	06:07		04:56	04:21
	16:15	109	15:31 (4)	17:26	25	08:50 (12)	18:30	20:39		21:44	22:26
19	08:50	10:45 (11)	07:46	08:25 (12)	06:30		06:56 (13)	06:04		04:54	04:21
	16:17	111	15:36 (1)	17:29	25	08:50 (12)	18:32	20:41		21:46	22:27
20	08:49	10:46 (11)	07:43	08:24 (12)	06:27		06:53 (13)	06:02		04:52	04:21
	16:19	112	15:38 (1)	17:31	26	08:50 (12)	18:35	20:43		21:48	22:27
21	08:47	10:47 (11)	07:40	08:25 (12)	06:25		06:51 (13)	05:59		04:50	04:21
	16:21	115	15:41 (1)	17:33	26	08:51 (12)	18:37	20:45		21:50	22:28
22	08:46	10:48 (11)	07:38	08:24 (12)	06:22		06:48 (13)	05:57		04:48	04:21
	16:23	116	15:43 (1)	17:36	26	08:50 (12)	18:39	20:48		21:51	22:28
23	08:44	10:49 (11)	07:35	08:24 (12)	06:19		06:47 (13)	05:54		04:46	04:21
	16:25	117	15:46 (1)	17:38	25	08:49 (12)	18:41	20:50		21:53	22:28
24	08:42	10:50 (11)	07:33	08:25 (12)	06:16		06:46 (13)	05:51		04:45	04:22
	16:28	117	15:48 (1)	17:40	25	08:50 (12)	18:44	20:52		21:55	22:28
25	08:41	10:51 (11)	07:30	08:26 (12)	06:13		06:46 (13)	05:49		04:43	04:22
	16:30	116	15:51 (1)	17:43	22	08:48 (12)	18:46	20:54		21:57	22:28
26	08:39	10:53 (11)	07:27	08:26 (12)	06:11		06:46 (13)	05:46		04:41	04:22
	16:32	114	15:52 (1)	17:45	21	08:47 (12)	18:48	20:56		21:59	22:28
27	08:37	10:55 (11)	07:25	08:27 (12)	06:08		06:47 (13)	05:44		04:40	04:23
	16:34	109	15:53 (1)	17:47	18	08:45 (12)	18:50	20:59		22:01	22:28
28	08:35	10:58 (11)	07:22	08:30 (12)	06:05		06:47 (13)	05:41		04:38	04:24
	16:37	102	15:53 (1)	17:50	14	08:44 (12)	18:52	21:01		22:02	22:27
29	08:33	11:52 (10)			07:02		07:47 (13)	05:39		04:37	04:24
	16:39	88	15:52 (1)		19:55		08:12 (13)	21:03		22:04	22:27
30	08:31	11:53 (10)			06:59		07:48 (13)	05:36		04:35	04:25
	16:41	83	15:51 (1)		19:57		08:10 (13)	21:05		22:06	22:27
31	08:29	11:54 (10)			06:57		07:50 (13)			04:34	
	16:44	77	15:51 (1)		19:59		08:09 (13)			22:07	
Potential sun hours	227		262		365		429		515		539
Total, worst case	3044		874		371		23				
Sun reduction	0,13		0,22		0,37		0,46				
Oper. time red.	0,93		0,93		0,93		0,93				
Wind dir. red.	0,23		0,37		0,99		0,99				
Total reduction	0,03		0,08		0,34		0,42				
Total, real	85		67		125		10				

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

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

SHADOW - Calendar

Shadow receptor: CE - 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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:24	07:34	11:34 (10) 08:39
	22:26	21:41	20:23	18:59	16:38	33 12:07 (10) 15:43
2	04:27	05:17	06:23	07:27	07:36	11:32 (10) 08:41
	22:26	21:39	20:21	18:57	16:36	36 12:08 (10) 15:42
3	04:28	05:19	06:25	07:29	07:38	11:31 (10) 08:43
	22:25	21:37	20:18	18:54	16:33	39 12:10 (10) 15:41
4	04:29	05:21	06:27	07:31	07:41	11:29 (10) 08:44
	22:24	21:35	20:15	18:51	16:31	42 12:11 (10) 15:40
5	04:30	05:23	06:29	07:33	07:43	11:28 (10) 08:46
	22:24	21:33	20:12	18:48	16:29	44 12:12 (10) 15:39
6	04:31	05:25	06:31	07:35	07:45	11:27 (10) 08:48
	22:23	21:30	20:10	18:46	16:26	46 12:13 (10) 15:39
7	04:32	05:28	06:34	07:37	07:47	11:27 (10) 08:49
	22:22	21:28	20:07	18:43	16:24	47 12:14 (10) 15:38
8	04:33	05:30	06:36	07:40	07:50	11:26 (10) 08:51
	22:21	21:26	20:04	18:40	16:22	49 12:15 (10) 15:37
9	04:35	05:32	06:38	07:42	07:52	11:25 (10) 08:52
	22:20	21:23	20:01	18:37	16:20	56 15:18 (1) 15:37
10	04:36	05:34	06:40	07:44	07:54	11:25 (10) 08:54
	22:19	21:21	19:58	6 07:48 (13) 18:35	16:18	69 15:21 (1) 15:36
11	04:37	05:36	06:42	07:46	07:57	11:24 (10) 08:55
	22:18	21:18	19:56	14 07:58 (13) 18:32	16:16	78 15:22 (1) 15:36
12	04:39	05:38	06:44	07:48	07:59	11:25 (10) 08:56
	22:16	21:16	19:53	19 08:00 (13) 18:29	16:14	83 15:23 (1) 15:35
13	04:40	05:40	06:46	07:51	09:04 (12) 08:01	11:24 (10) 08:57
	22:15	21:13	19:50	22 08:01 (13) 18:26	11 09:15 (12) 16:12	86 15:23 (1) 15:35
14	04:42	05:42	06:48	07:53	09:01 (12) 08:03	10:30 (11) 08:59
	22:14	21:11	19:47	24 08:02 (13) 18:24	16 09:17 (12) 16:10	102 15:25 (1) 15:35
15	04:43	05:45	06:50	07:55	09:00 (12) 08:06	10:27 (11) 09:00
	22:12	21:08	19:44	26 08:02 (13) 18:21	19 09:19 (12) 16:08	110 15:25 (1) 15:35
16	04:45	05:47	06:53	07:57	08:58 (12) 08:08	10:26 (11) 09:01
	22:11	21:06	19:42	28 08:03 (13) 18:18	21 09:19 (12) 16:06	114 15:25 (1) 15:35
17	04:47	05:49	06:55	07:59	08:56 (12) 08:10	10:25 (11) 09:02
	22:09	21:03	19:39	29 08:03 (13) 18:16	24 09:20 (12) 16:04	116 15:25 (1) 15:35
18	04:48	05:51	06:57	08:02	08:56 (12) 08:12	10:24 (11) 09:02
	22:08	21:01	19:36	30 08:03 (13) 18:13	25 09:21 (12) 16:02	117 15:22 (1) 15:35
19	04:50	05:53	06:59	08:04	08:55 (12) 08:15	10:24 (11) 09:03
	22:06	20:58	19:33	29 08:02 (13) 18:10	26 09:21 (12) 16:00	117 15:21 (1) 15:35
20	04:52	05:55	07:01	08:06	08:55 (12) 08:17	10:23 (11) 09:04
	22:05	20:56	19:30	30 08:03 (13) 18:08	26 09:21 (12) 15:59	116 15:18 (1) 15:36
21	04:54	05:57	07:03	08:08	08:55 (12) 08:19	10:23 (11) 09:05
	22:03	20:53	19:27	29 08:02 (13) 18:05	26 09:21 (12) 15:57	115 15:17 (1) 15:36
22	04:55	06:00	07:05	08:11	08:55 (12) 08:21	10:22 (11) 09:05
	22:01	20:50	19:25	26 08:01 (13) 18:03	26 09:21 (12) 15:55	111 15:14 (1) 15:36
23	04:57	06:02	07:07	08:13	08:55 (12) 08:23	10:21 (11) 09:06
	21:59	20:48	19:22	23 08:00 (13) 18:00	25 09:20 (12) 15:54	111 15:12 (1) 15:37
24	04:59	06:04	07:10	08:15	08:55 (12) 08:25	10:22 (11) 09:06
	21:58	20:45	19:19	20 07:59 (13) 17:58	24 09:19 (12) 15:52	108 15:08 (4) 15:37
25	05:01	06:06	07:12	07:18	07:56 (12) 08:27	10:22 (11) 09:06
	21:56	20:42	19:16	17 07:58 (13) 16:55	23 08:19 (12) 15:51	107 15:08 (4) 15:38
26	05:03	06:08	07:14	07:20	07:56 (12) 08:29	10:22 (11) 09:07
	21:54	20:40	19:13	13 07:56 (13) 16:53	22 08:18 (12) 15:49	106 15:08 (4) 15:39
27	05:05	06:10	07:16	07:22	07:58 (12) 08:31	10:22 (11) 09:07
	21:52	20:37	19:11	8 07:53 (13) 16:50	19 08:17 (12) 15:48	103 15:06 (4) 15:40
28	05:07	06:12	07:18	07:24	07:59 (12) 08:33	10:22 (11) 09:07
	21:50	20:34	19:08	3 07:51 (13) 16:48	16 08:15 (12) 15:47	102 15:04 (4) 15:41
29	05:09	06:14	07:20	07:27	08:01 (12) 08:35	10:22 (11) 09:07
	21:48	20:32	19:05	16:45	26 11:57 (10) 15:45	98 15:02 (4) 15:42
30	05:11	06:17	07:22	07:29	08:04 (12) 08:37	10:22 (11) 09:07
	21:46	20:29	19:02	16:43	28 12:01 (10) 15:44	95 15:00 (4) 15:43
31	05:13	06:19		07:31	11:36 (10)	09:07
	21:44	20:26		16:40	28 12:04 (10)	15:44
Potential sun hours	538	475	386	321	241	207
Total, worst case			396	431	2556	2787
Sun reduction			0,43	0,31	0,15	0,13
Oper. time red.			0,93	0,93	0,93	0,93
Wind dir. red.			0,99	0,71	0,23	0,17
Total reduction			0,40	0,20	0,03	0,02
Total, real			157	87	83	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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CF - Vecspridi šī
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07 15:45	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:34 16:38	08:39 15:43
2	09:06 15:46	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:10	04:31 22:10	04:26 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:35	08:41 15:42
3	09:06 15:48	08:23 16:50	07:14 17:56	06:48 20:05	05:29 21:12	04:30 22:12	04:27 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41
4	09:05 15:49	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13	04:28 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:40
5	09:05 15:51	08:19 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:15	04:30 22:24	05:23 21:33	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39
6	09:04 15:52	08:16 16:58	07:06 18:03	06:40 20:12	05:21 21:18	04:27 22:16	04:31 22:23	05:25 21:30	06:31 20:10	07:35 18:45	07:45 16:26	08:48 15:38
7	09:04 15:54	08:14 17:00	07:03 18:05	06:37 20:14	05:19 21:21	04:26 22:17	04:32 22:22	05:27 21:28	06:33 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:03 15:55	08:12 17:02	07:01 18:08	06:34 20:17	05:17 21:23	04:25 22:18	04:33 22:21	05:29 21:26	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:37
9	09:02 15:57	08:10 17:05	06:58 18:10	06:31 20:19	05:15 21:25	04:24 22:19	04:34 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:36
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:12 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:34	07:54 16:18	08:54 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:23 22:21	04:37 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:23 20:25	05:08 21:31	04:22 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:13	08:56 15:35
13	08:58 16:04	08:00 17:14	06:47 18:19	06:20 20:28	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:26	08:01 16:11	08:57 15:35
14	08:57 16:06	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:36	04:22 22:24	04:42 22:14	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:09	08:59 15:35
15	08:56 16:08	07:55 17:19	06:41 18:23	06:15 20:32	05:02 21:38	04:21 22:25	04:43 22:12	05:44 21:08	06:50 19:44	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:10	07:53 17:21	06:38 18:26	06:12 20:34	04:59 21:40	04:21 22:25	04:45 22:11	05:47 21:06	06:53 19:41	07:57 18:18	08:08 16:06	09:01 15:35
17	08:53 16:12	07:51 17:24	06:36 18:28	06:10 20:36	04:57 21:42	04:21 22:26	04:46 22:10	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:02 15:35
18	08:52 16:14	07:48 17:26	06:33 18:30	06:07 20:39	04:55 21:44	04:21 22:26	04:48 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:03 15:35
19	08:50 16:16	07:46 17:28	06:30 18:32	06:04 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:15 16:00	09:03 15:35
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:58	09:04 15:35
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 21:50	04:21 22:28	04:53 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:05 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39	05:56 20:48	04:48 21:52	04:21 22:28	04:55 22:01	05:59 20:50	07:05 19:25	08:11 18:03	08:21 15:55	09:05 15:36
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:46 21:53	04:21 22:28	04:57 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:27	07:33 17:40	06:16 18:43	05:51 20:52	04:44 21:55	04:21 22:28	04:59 21:58	06:04 20:45	07:09 19:19	08:15 17:57	08:25 15:52	09:06 15:37
25	08:41 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:38
26	08:39 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:41 21:59	04:22 22:28	05:03 21:54	06:08 20:40	07:14 19:13	07:20 16:52	08:29 15:49	09:07 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:36	07:22 17:49	06:05 18:52	05:41 21:01	04:38 22:02	04:23 22:27	05:07 21:50	06:12 20:34	07:18 19:08	07:24 16:47	08:33 15:47	09:07 15:40
29	08:33 16:39		07:02 19:54	05:38 21:03	04:37 22:04	04:24 22:27	05:09 21:48	06:14 20:32	07:20 19:05	07:27 16:45	08:35 15:45	09:07 15:41
30	08:31 16:41		06:59 19:57	05:36 21:05	04:35 22:06	04:25 22:27	05:11 21:46	06:16 20:29	07:22 19:02	07:29 16:43	08:37 15:44	09:07 15:43
31	08:29 16:43		06:56 19:59		04:34 22:07		05:13 21:44	06:19 20:26		07:31 16:40		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CG - Vecto šeni
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June
1	09:06 15:45	08:27 16:46	15:24 (9) 15:52 (9)	07:19 17:52	06:54 20:01	18:59 (12) 19:47 (12)
2	09:06 15:47	08:25 16:48	15:24 (9) 15:52 (9)	07:17 17:54	06:51 20:03	18:58 (12) 19:45 (12)
3	09:06 15:48	08:23 16:51	15:25 (9) 15:53 (9)	07:14 17:56	06:48 20:05	18:59 (12) 19:45 (12)
4	09:05 15:49	08:21 16:53	15:25 (9) 15:52 (9)	07:11 17:59	06:45 20:08	18:59 (12) 19:45 (12)
5	09:05 15:51	08:18 16:55	15:25 (9) 15:52 (9)	07:09 18:01	06:42 20:10	19:00 (12) 19:45 (12)
6	09:04 15:52	08:16 16:58	15:25 (9) 15:51 (9)	07:06 18:03	06:40 20:12	19:00 (12) 19:43 (12)
7	09:03 15:54	08:14 17:00	15:26 (9) 15:51 (9)	07:03 18:05	06:37 20:14	19:00 (12) 19:43 (12)
8	09:03 15:56	08:12 17:02	15:27 (9) 15:50 (9)	07:00 18:08	06:34 20:16	19:01 (12) 19:42 (12)
9	09:02 15:57	08:10 17:05	15:28 (9) 15:50 (9)	06:58 18:10	06:31 20:19	19:02 (12) 19:41 (12)
10	09:01 15:59	08:07 17:07	15:29 (9) 15:48 (9)	06:55 18:12	06:29 20:21	19:03 (12) 19:41 (12)
11	09:00 16:01	08:05 17:10	15:32 (9) 15:47 (9)	06:52 18:14	06:26 20:23	19:04 (12) 19:40 (12)
12	08:59 16:03	08:03 17:12	15:34 (9) 15:44 (9)	06:49 18:17	06:23 20:25	19:05 (12) 19:39 (12)
13	08:58 16:04	08:00 17:14	06:47 18:19	06:20 20:27	19:13 (12) 19:38 (12)	19:06 (12) 19:37 (12)
14	08:57 16:06	07:58 17:17	06:44 18:21	06:18 20:30	19:10 (12) 19:40 (12)	19:07 (12) 19:36 (12)
15	08:55 16:08	07:55 17:19	06:41 18:23	06:15 20:32	19:09 (12) 19:42 (12)	19:09 (12) 19:36 (12)
16	08:54 16:10	07:53 17:21	06:38 18:26	06:12 20:34	19:07 (12) 19:43 (12)	19:11 (12) 19:34 (12)
17	08:53 16:12	07:50 17:24	06:36 18:28	06:10 20:36	19:06 (12) 19:44 (12)	19:13 (12) 19:32 (12)
18	08:51 16:14	07:48 17:26	06:33 18:30	06:07 20:38	19:04 (12) 19:45 (12)	19:15 (12) 19:29 (12)
19	08:50 16:17	07:45 17:28	06:30 18:32	06:04 20:41	19:04 (12) 19:46 (12)	19:20 (12) 21:45
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	19:02 (12) 19:46 (12)	04:52 21:47
21	08:47 16:21	07:40 17:33	06:24 18:37	05:59 20:45	19:01 (12) 19:46 (12)	04:50 21:49
22	08:45 16:23	07:38 17:35	06:22 18:39	05:56 20:47	19:01 (12) 19:47 (12)	04:48 21:51
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	19:01 (12) 19:47 (12)	04:46 21:53
24	08:42 16:27	07:33 17:40	06:16 18:43	05:51 20:52	18:59 (12) 19:47 (12)	04:45 21:55
25	08:40 16:30	07:30 17:42	06:13 18:46	05:49 20:54	18:59 (12) 19:47 (12)	04:43 21:57
26	08:39 16:32	07:27 17:45	06:10 18:48	05:46 20:56	18:59 (12) 19:47 (12)	04:41 21:59
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:58	18:59 (12) 19:47 (12)	04:40 22:00
28	08:35 16:37	07:22 17:49	06:05 18:52	05:41 21:01	18:58 (12) 19:46 (12)	04:38 22:02
29	08:33 16:39	07:20 17:51	06:02 19:54	05:38 21:03	18:58 (12) 19:46 (12)	04:37 22:04
30	08:31 16:41	07:19 17:51	06:09 19:57	05:36 21:05	18:59 (12) 19:47 (12)	04:35 22:05
31	08:29 16:43	07:17 17:52	06:06 19:59	05:34 21:07	18:59 (12) 19:47 (12)	04:34 22:07
Potential sun hours	227	262	365	429	515	539
Total, worst case	236	278	251	792	654	
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.	0,72	0,72	1,00	0,98	0,98	
Total reduction	0,09	0,15	0,34	0,42	0,53	
Total, real	21	41	85	334	347	

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CG - Vecto šeni
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	July	August	September	October	November	December
1	04:26	05:15	19:14 (12)	06:21	19:21 (12)	07:24
	22:26	21:41	19:49 (12)	20:23	18:59	16:38
2	04:27	05:17	19:14 (12)	06:23	19:31 (12)	18:59
	22:25	21:39	19:50 (12)	20:20	18:56	16:36
3	04:28	05:19	19:13 (12)	06:25	19:29	18:56
	22:25	21:37	19:51 (12)	20:18	18:54	16:33
4	04:29	05:21	19:12 (12)	06:27	19:31	18:54
	22:24	21:35	19:52 (12)	20:15	18:51	16:31
5	04:30	05:23	19:11 (12)	06:29	19:33	18:54
	22:23	21:32	19:53 (12)	20:12	18:48	16:29
6	04:31	05:25	19:10 (12)	06:31	19:35	18:45
	22:23	21:30	19:53 (12)	20:09	18:45	16:26
7	04:32	05:27	19:10 (12)	06:33	19:37	18:45
	22:22	21:28	19:54 (12)	20:07	18:43	16:24
8	04:33	05:30	19:09 (12)	06:36	19:39	18:45
	22:21	21:25	19:54 (12)	20:04	18:40	16:22
9	04:34	05:32	19:09 (12)	06:38	19:42	18:45
	22:20	21:23	19:54 (12)	20:01	18:37	16:20
10	04:36	05:34	19:08 (12)	06:40	19:44	18:45
	22:19	21:21	19:55 (12)	19:58	18:34	16:18
11	04:37	05:36	19:08 (12)	06:42	19:46	18:45
	22:17	21:18	19:55 (12)	19:55	18:32	16:16
12	04:39	05:38	19:07 (12)	06:44	19:48	18:45
	22:16	21:16	19:55 (12)	19:53	18:29	16:14
13	04:40	05:40	19:07 (12)	06:46	19:50	18:45
	22:15	21:13	19:55 (12)	19:50	18:26	16:12
14	04:42	05:42	19:06 (12)	06:48	19:53	18:45
	22:14	21:11	19:54 (12)	19:47	18:24	16:10
15	04:43	05:44	19:05 (12)	06:50	19:55	18:45
	22:12	21:08	19:54 (12)	19:44	18:21	16:08
16	04:45	05:47	19:05 (12)	06:52	19:57	18:45
	22:11	21:06	19:54 (12)	19:41	18:18	16:06
17	04:47	05:49	19:05 (12)	06:55	19:59	18:45
	22:09	21:03	19:53 (12)	19:39	18:16	16:04
18	04:48	05:51	19:05 (12)	06:57	20:02	18:45
	22:08	21:01	19:53 (12)	19:36	18:13	16:02
19	04:50	05:53	19:05 (12)	06:59	20:04	18:45
	22:06	20:58	19:52 (12)	19:33	18:10	16:00
20	04:52	05:55	19:05 (12)	07:01	20:06	18:45
	22:04	20:55	19:52 (12)	19:30	18:08	15:59
21	04:54	05:57	19:05 (12)	07:03	20:08	18:45
	22:03	20:53	19:51 (12)	19:27	18:05	15:57
22	04:55	05:59	19:06 (12)	07:05	20:11	18:45
	22:01	20:50	19:50 (12)	19:24	18:03	15:55
23	04:57	06:02	19:06 (12)	07:07	20:13	18:45
	21:59	20:48	19:49 (12)	19:22	18:01	15:54
24	04:59	06:04	19:06 (12)	07:09	20:15	18:45
	21:57	20:45	19:48 (12)	19:19	17:57	15:52
25	05:01	19:28 (12)	06:06	19:07 (12)	07:11	18:45
	21:55	19:38 (12)	20:42	19:47 (12)	19:16	18:45
26	05:03	19:25 (12)	06:08	19:08 (12)	07:14	18:45
	21:54	19:41 (12)	20:40	19:46 (12)	19:13	18:45
27	05:05	19:22 (12)	06:10	19:09 (12)	07:16	18:45
	21:52	19:40 (12)	20:37	19:44 (12)	19:10	18:45
28	05:07	19:20 (12)	06:12	19:10 (12)	07:18	18:45
	21:50	19:45 (12)	20:34	19:43 (12)	19:08	16:47
29	05:09	19:19 (12)	06:14	19:11 (12)	07:20	18:45
	21:48	19:46 (12)	20:31	19:41 (12)	19:05	16:45
30	05:11	19:18 (12)	06:16	19:13 (12)	07:22	18:45
	21:45	19:48 (12)	20:29	19:38 (12)	19:02	16:43
31	05:13	19:16 (12)	06:19	19:16 (12)	19:04	18:45
	21:43	19:49 (12)	20:26	19:35 (12)	16:40	15:17
Potential sun hours	538	474	386	321	241	207
Total, worst case	162	1289	267	27	489	
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.	0,98	0,98	1,00	0,72	0,72	
Total reduction	0,52	0,50	0,40	0,20	0,10	
Total, real	84	644	106	6	50	

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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CH - 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

0	1	Sum
4 076	4 076	8 152

	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CI - Vedomurgas
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:31 21:10	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:41
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:32	06:30 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:20 21:21	04:27 22:17	04:32 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:47 16:24	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:34 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:37
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:11 21:29	04:24 22:21	04:38 22:17	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:46 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:56 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:25	04:44 22:12	05:45 21:08	06:51 19:44	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:36	04:58 21:42	04:21 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:01 15:35
18	08:52 16:15	07:48 17:26	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:25 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:08 18:05	08:19 15:57	09:04 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39	05:57 20:48	04:48 21:51	04:21 22:28	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:40	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:57	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:46 20:56	04:42 21:59	04:23 22:28	05:03 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:00	04:23 22:27	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:42		06:59 19:57	05:36 21:05	04:36 22:05	04:25 22:26	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: CJ - 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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December				
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	06:03 (8) 21 06:24 (8)	04:33 22:09	20:58 (2) 23 21:21 (2)	04:26 22:26	21:00 (2) 29 21:29 (2)	05:15 21:41	06:21 20:23	07:25 18:59	07:34 16:38	08:39 15:44	
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:31 21:10	06:03 (8) 21 06:24 (8)	04:32 22:10	20:57 (2) 25 21:22 (2)	04:27 22:25	21:00 (2) 30 21:30 (2)	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42	
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	06:03 (8) 20 06:23 (8)	04:31 22:12	20:57 (2) 25 21:22 (2)	04:28 22:25	21:01 (2) 29 21:30 (2)	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:42 15:41	
4	09:05 15:50	08:21 16:53	07:11 17:59	06:46 20:08	05:27 21:14	06:04 (8) 19 06:23 (8)	04:30 22:13	20:57 (2) 26 21:23 (2)	04:29 22:24	21:01 (2) 29 21:30 (2)	05:22 21:35	06:20 (8) 5 06:25 (8)	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	06:04 (8) 18 06:22 (8)	04:29 22:14	20:56 (2) 27 21:23 (2)	04:30 22:23	21:02 (2) 28 21:30 (2)	05:24 21:32	06:17 (8) 11 06:28 (8)	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	06:05 (8) 16 06:21 (8)	04:28 22:16	20:56 (2) 27 21:23 (2)	04:31 22:23	21:02 (2) 28 21:30 (2)	05:26 21:30	06:15 (8) 15 06:30 (8)	06:32 20:10	07:35 18:46	07:45 16:27	08:47 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:20 21:20	06:07 (8) 13 06:20 (8)	04:27 22:17	20:55 (2) 28 21:23 (2)	04:32 22:22	21:02 (2) 28 21:30 (2)	05:28 21:28	06:14 (8) 17 06:31 (8)	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:34 20:17	05:17 21:23	06:08 (8) 10 06:18 (8)	04:26 22:18	20:56 (2) 29 21:25 (2)	04:34 22:21	21:03 (2) 26 21:29 (2)	05:30 21:25	06:13 (8) 19 06:32 (8)	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	06:18 (8) 22:19	04:25 22:29	20:56 (2) 28 21:24 (2)	04:35 22:20	21:03 (2) 26 21:29 (2)	05:32 21:23	06:13 (8) 19 06:32 (8)	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	06:29 (8) 22:20	04:24 22:29	20:56 (2) 25 21:25 (2)	04:36 22:19	21:05 (2) 25 21:30 (2)	05:34 21:21	06:12 (8) 21 06:33 (8)	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:37
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:11 21:29	08:05 (8) 22:21	04:24 22:21	20:56 (2) 29 21:25 (2)	04:38 22:17	21:05 (2) 24 21:29 (2)	05:36 21:18	06:12 (8) 21 06:33 (8)	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:23 20:25	05:08 21:31	08:03 (8) 22:22	04:23 22:22	20:56 (2) 30 21:26 (2)	04:39 22:15	21:05 (2) 23 21:28 (2)	05:38 21:26	06:12 (8) 21 06:33 (8)	06:44 19:59	07:48 18:14	07:59 16:30	08:56 15:30
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	08:00 (8) 22:23	04:23 22:23	20:57 (2) 29 21:26 (2)	04:41 22:15	21:06 (2) 21 21:27 (2)	05:40 21:13	06:14 (8) 19 06:33 (8)	06:46 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	07:58 (8) 22:24	04:22 22:30	20:56 (2) 30 21:26 (2)	04:42 22:14	21:07 (2) 21 21:28 (2)	05:43 21:11	06:16 (8) 17 06:33 (8)	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:56 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:37	07:55 (8) 22:24	04:22 22:31	20:56 (2) 31 21:27 (2)	04:44 22:12	21:08 (2) 18 21:26 (2)	05:45 21:08	06:18 (8) 14 06:32 (8)	06:51 19:44	07:55 18:21	08:06 16:08	08:59 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:39	07:53 (8) 22:25	04:22 21:39	20:57 (2) 30 21:27 (2)	04:45 22:11	21:09 (2) 17 21:26 (2)	05:47 21:06	06:20 (8) 11 06:31 (8)	06:53 19:42	07:57 18:19	08:08 16:06	09:00 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:36	04:58 21:42	07:51 (8) 22:26	04:21 22:30	20:57 (2) 30 21:27 (2)	04:47 22:09	21:10 (2) 14 21:24 (2)	05:49 21:03	06:22 (8) 9 06:31 (8)	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:52 16:15	07:48 17:26	06:33 18:30	06:07 20:39	04:56 21:44	07:48 (8) 22:26	04:21 22:26	20:57 (2) 31 21:28 (2)	04:47 22:08	21:13 (2) 10 21:23 (2)	05:51 21:01	06:24 (8) 5 06:29 (8)	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:45	07:46 (8) 22:27	04:21 22:31	20:57 (2) 31 21:28 (2)	04:50 22:06	21:15 (2) 4 21:19 (2)	05:50 20:58	06:26 (8) 2 06:28 (8)	06:58 19:33	08:04 18:11	08:14 16:01	09:04 15:36
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:47	07:43 (8) 22:27	04:21 22:31	20:57 (2) 31 21:28 (2)	04:52 22:04	05:55 20:56	06:28 20:58	06:28 (8) 07:01	06:57 19:30	08:05 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:25 18:37	05:59 20:45	04:50 21:49	07:40 (8) 22:27	04:21 22:31	20:57 (2) 31 21:28 (2)	04:54 22:03	05:58 20:53	06:29 20:57	06:29 (8) 07:05	06:57 18:05	08:06 15:57	08:19 15:37	09:04 15:36
22	08:45 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 21:51	07:38 (8) 22:27	04:21 22:31	20:57 (2) 31 21:28 (2)	04:56 22:01	06:00 20:50	06:29 20:50	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
23	08:44 16:26	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	07:35 (8) 22:28	04:21 22:31	20:57 (2) 31 21:29 (2)	04:58 21:59	06:02 20:48	06:29 20:48	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
24	08:42 16:28	07:33 17:40	06:16 18:44	05:52 20:52	04:45 21:55	07:33 (8) 22:28	04:21 22:31	20:57 (2) 31 21:29 (2)	05:00 21:57	06:04 20:45	06:29 20:45	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	07:30 (8) 22:28	04:21 22:31	20:57 (2) 36 21:29 (2)	05:01 21:56	06:06 20:42	06:29 20:42	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
26	08:39 16:32	07:27 17:45	06:11 18:48	05:46 20:56	04:42 21:59	07:27 (8) 22:27	04:21 22:31	20:57 (2) 13 21:29 (2)	05:03 21:54	06:08 20:40	06:29 20:40	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
27	08:37 16:35	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:00	07:25 (8) 22:27	04:21 22:31	20:57 (2) 31 21:30 (2)	05:05 21:52	06:10 20:37	06:29 20:37	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	07:22 (8) 22:27	04:21 22:31	20:57 (2) 30 21:29 (2)	05:07 21:57	06:13 20:34	06:29 20:34	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
29	08:33 16:39	07:02 19:55	05:39 21:03	05:19 22:04	04:37 22:04	07:20 (8) 22:27	04:21 22:31	20:57 (2) 30 21:30 (2)	05:09 21:48	06:15 20:32	06:29 20:32	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
30	08:31 16:41	06:59 19:57	05:36 21:05	05:12 22:05	04:36 22:05	07:18 (8) 22:26	04:21 22:31	20:57 (2) 30 21:30 (2)	05:11 21:46	06:17 20:29	06:29 20:29	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
31	08:29 16:44	06:57 19:59	05:36 21:05	05:12 22:05	04:36 22:05	07:18 (8) 22:26	04:21 22:31	20:57 (2) 30 21:30 (2)	05:11 21:46	06:17 20:29	06:29 20:29	06:29 (8) 07:05	06:57 18:05	08:06 15:56	08:19 15:37	09:04 15:37
Potential sun hours	227	262	365	429	515	558	539	538	430	226	386	321	241	207		
Total, worst case				81	255	874			430	226						
Sun reduction				0.46	0.58	0.53			0.57	0.55						
Oper. time red.				0.93	0.93	0.93			0.93	0.93						
Wind dir. red.				0.94	0.87	0.79			0.79	0.94						
Total reduction				0.40	0.47	0.39			0.42	0.48						
Total, real				33	120	342			179	108						

SHADOW - Calendar

Shadow receptor: CK - 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

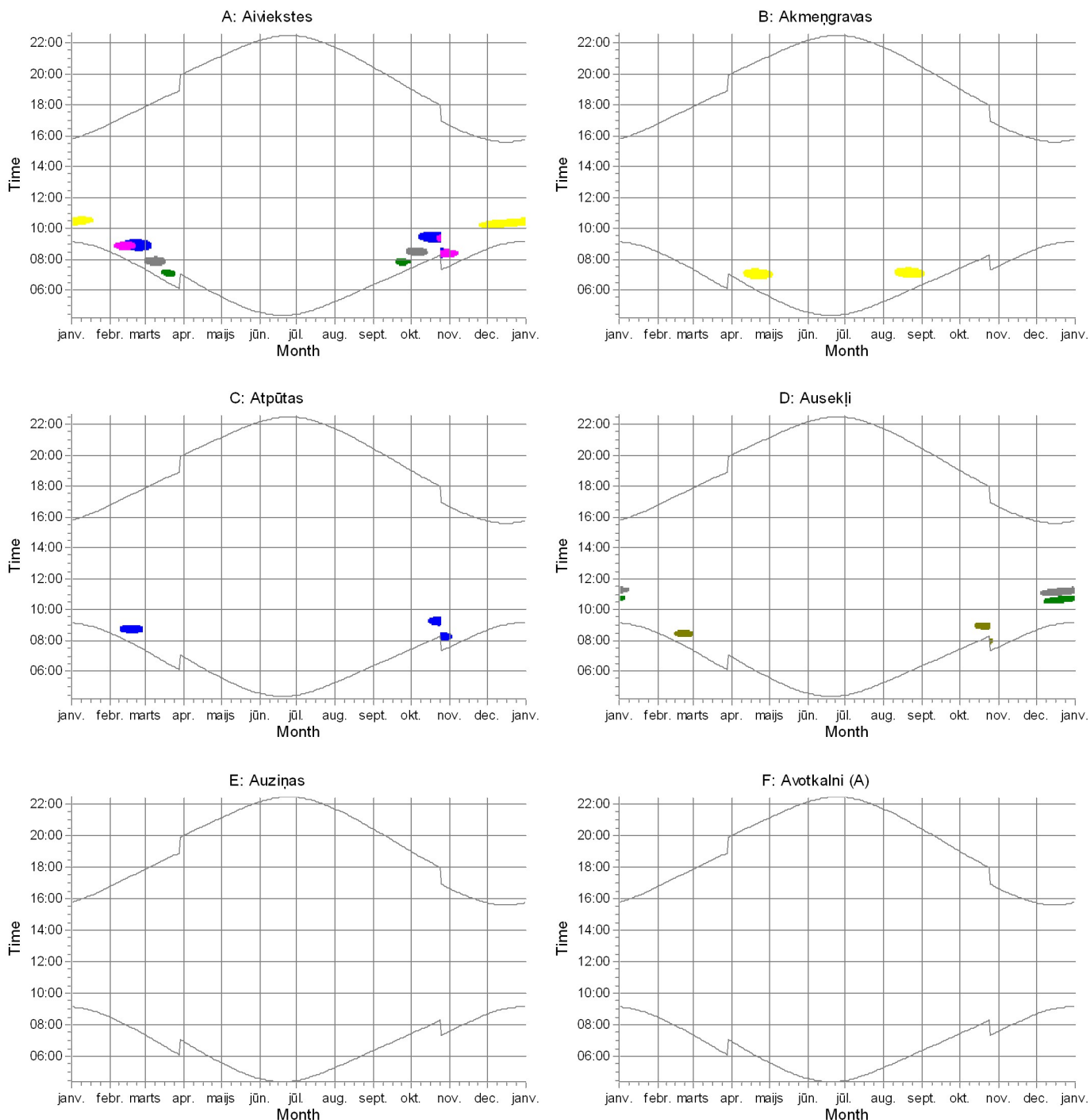
Operational time
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 19:00	07:34 16:38	08:39 15:44
2	09:06 15:47	08:25 16:49	07:17 17:54	06:51 20:03	05:31 21:10	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:34	08:43 15:41
4	09:05 15:50	08:21 16:53	07:12 17:59	06:46 20:08	05:27 21:14	04:30 22:13	04:29 22:24	05:22 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:41
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:29 22:14	04:30 22:23	05:24 21:32	06:30 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:28 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:20 21:21	04:27 22:17	04:32 22:22	05:28 21:28	06:34 20:07	07:38 18:43	07:47 16:24	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:34 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:38
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:13	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:37
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:11 21:29	04:24 22:21	04:38 22:17	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:24 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:23 22:23	04:41 22:15	05:41 21:13	06:46 19:50	07:51 18:27	08:01 16:12	08:57 15:36
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:49 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:56 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:25	04:44 22:12	05:45 21:08	06:51 19:44	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:22 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:19	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:36	04:58 21:42	04:21 22:26	04:47 22:09	05:49 21:03	06:55 19:39	08:00 18:16	08:10 16:04	09:01 15:35
18	08:52 16:15	07:48 17:26	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:36
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:25 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:58 20:53	07:03 19:28	08:08 18:05	08:19 15:57	09:04 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39	05:57 20:48	04:48 21:51	04:21 22:28	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:26	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:08 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:40	06:16 18:44	05:52 20:52	04:45 21:55	04:22 22:28	05:00 21:57	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:53	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:39
26	08:39 16:32	07:28 17:45	06:11 18:48	05:46 20:56	04:42 21:59	04:23 22:28	05:03 21:54	06:08 20:40	07:14 19:14	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:35	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:00	04:23 22:27	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:13 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:25 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:42		06:59 19:57	05:36 21:05	04:36 22:05	04:25 22:26	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:41		09:07 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)	Last time (hh:mm) with flicker	(WTG causing flicker last time)
	Minutes with flicker		

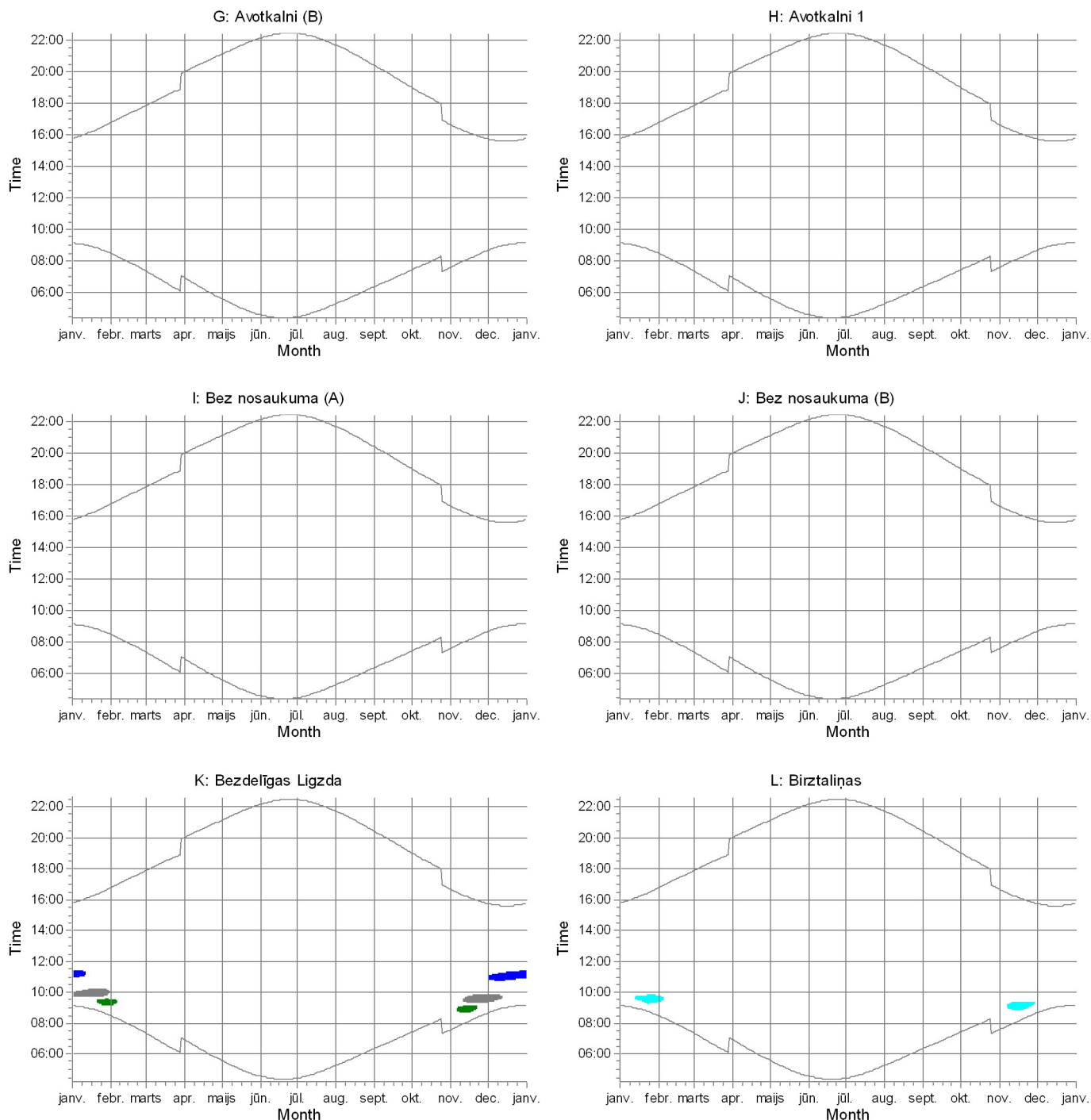
SHADOW - Calendar, graphical



WTGs

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

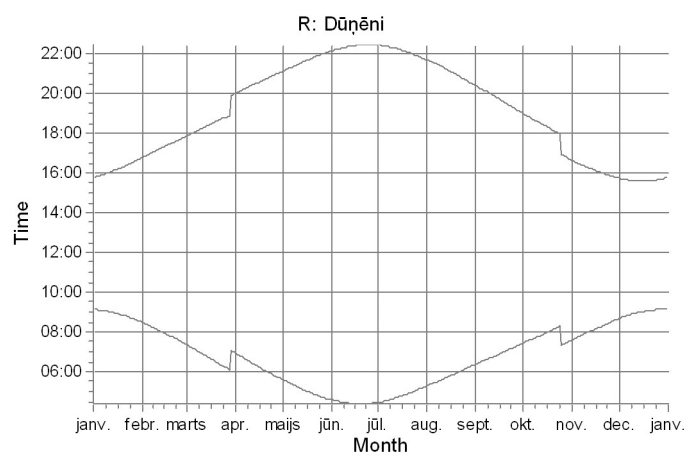
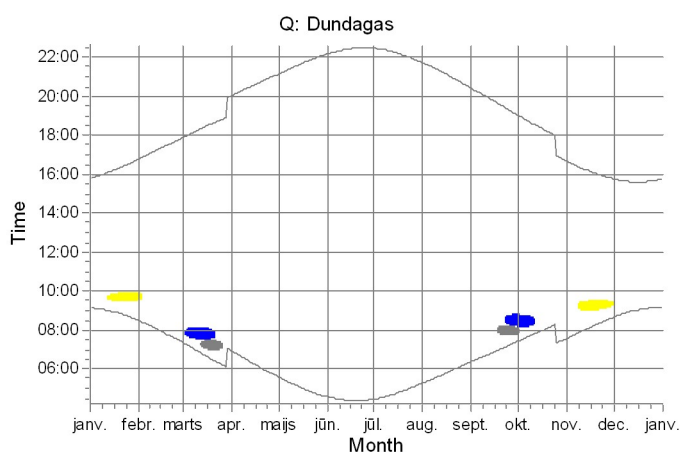
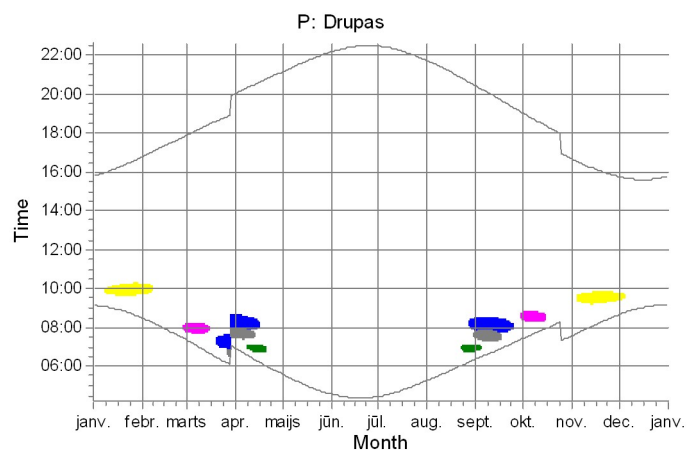
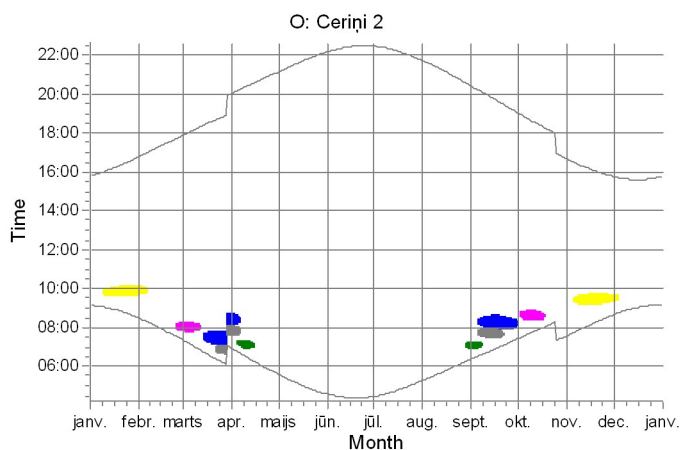
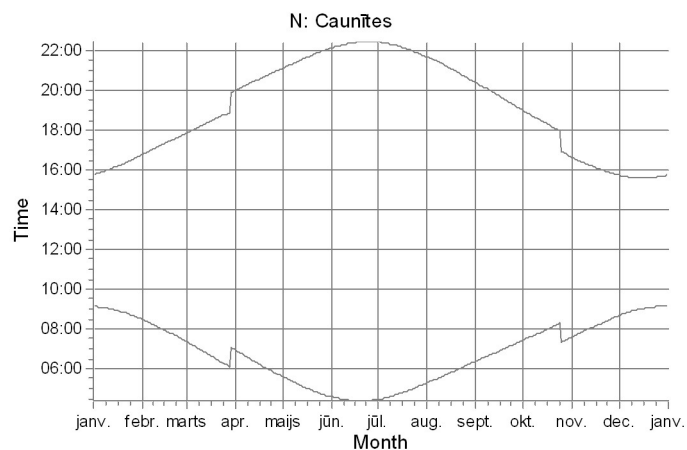
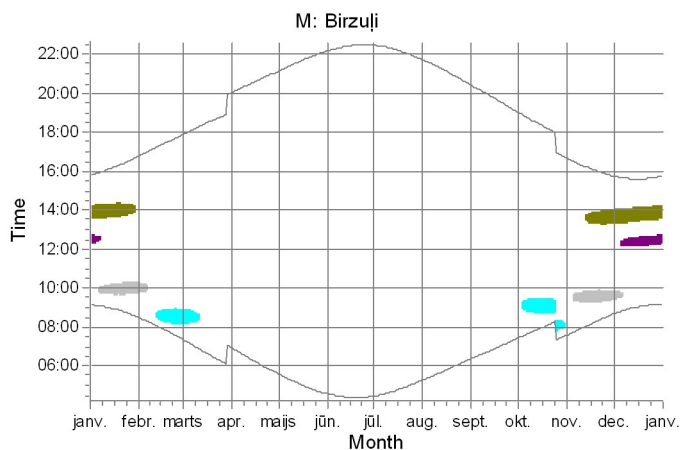
SHADOW - Calendar, graphical



WTGs



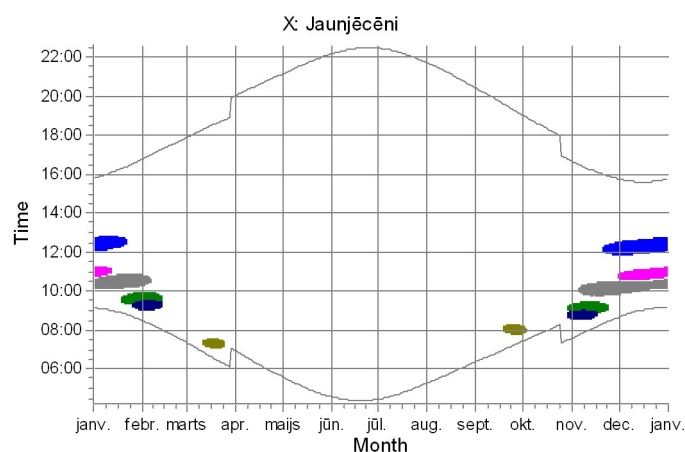
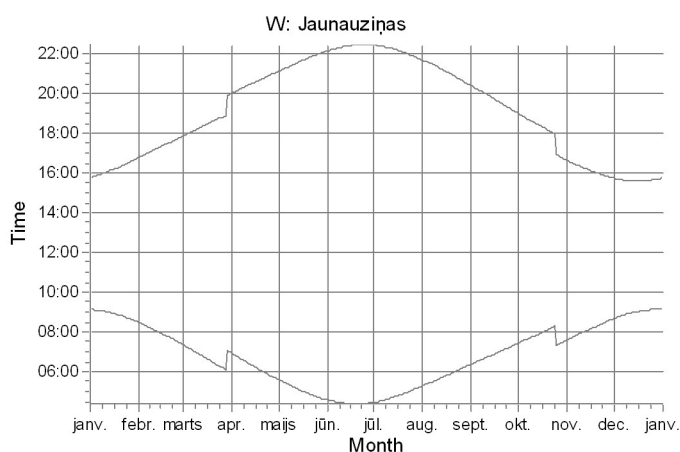
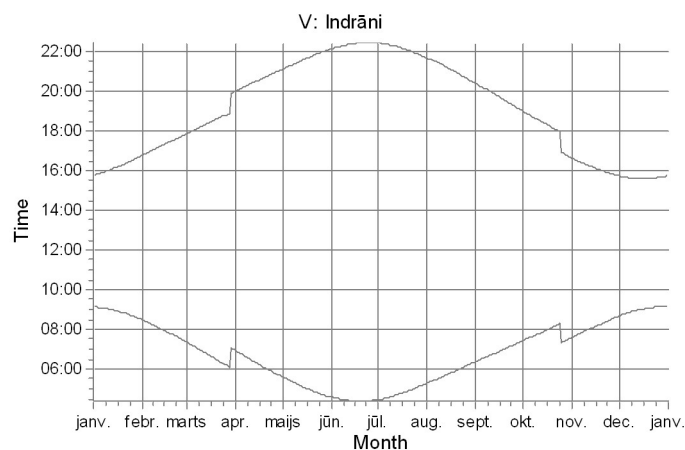
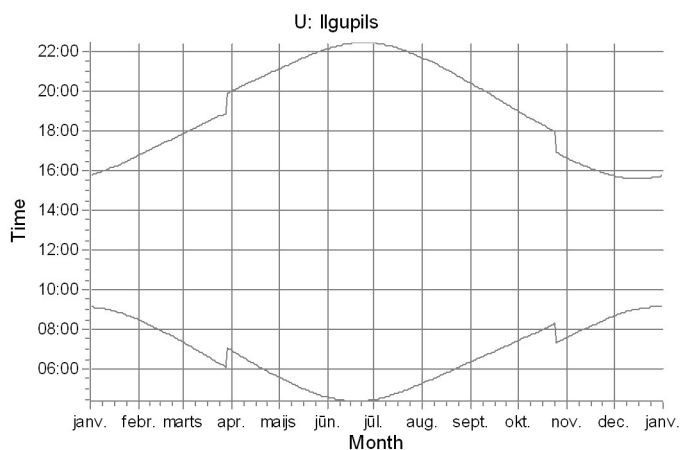
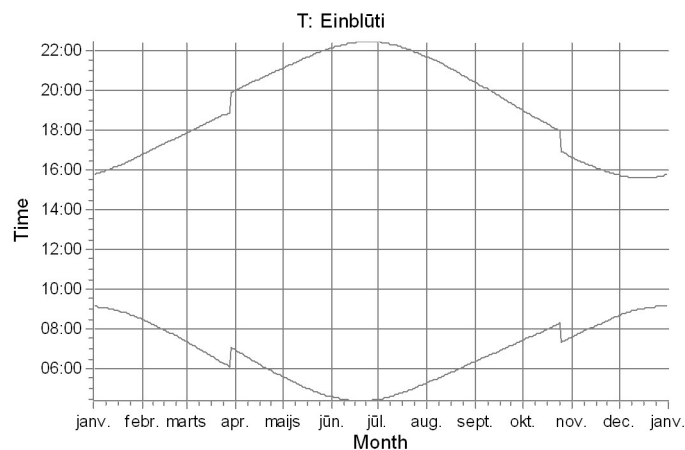
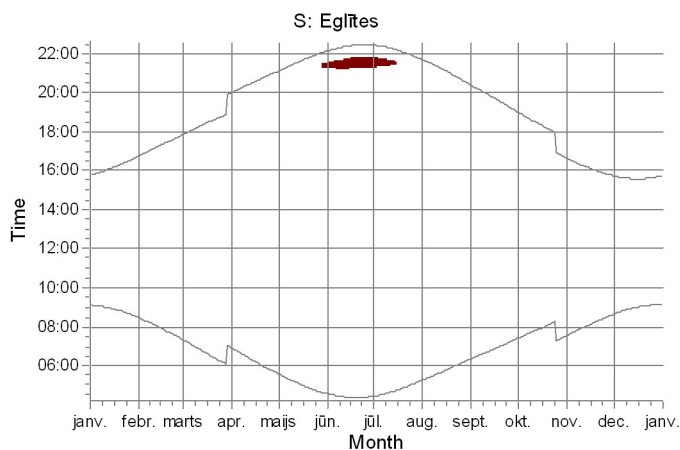
SHADOW - Calendar, graphical



WTGs

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

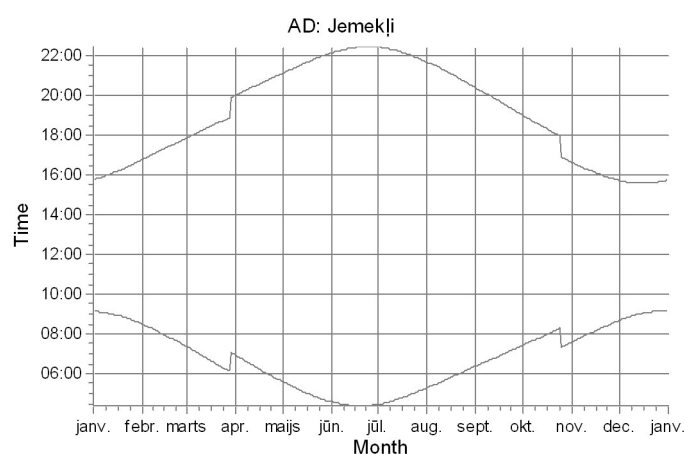
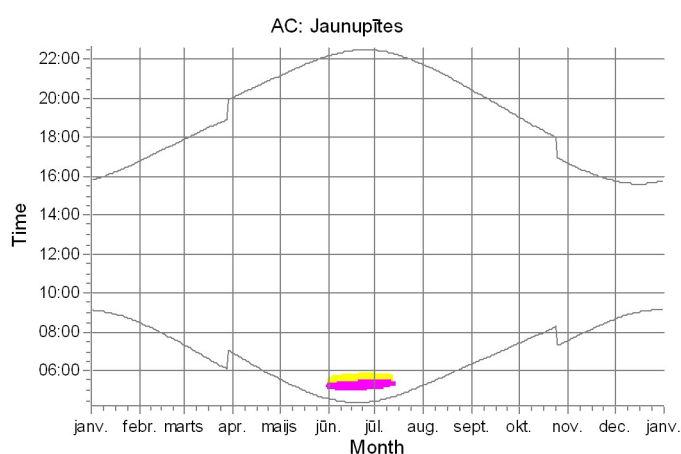
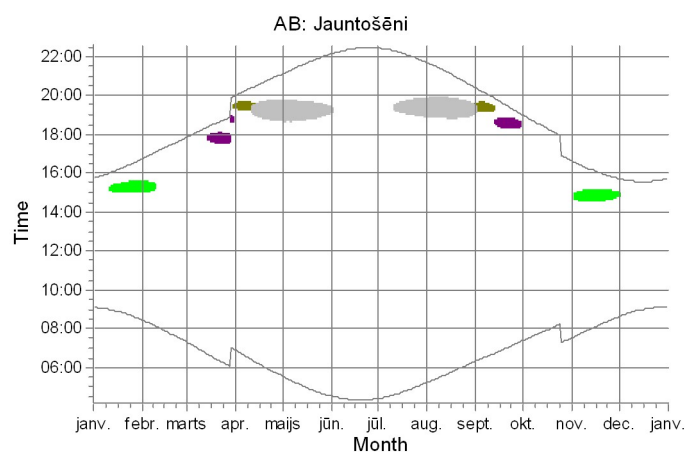
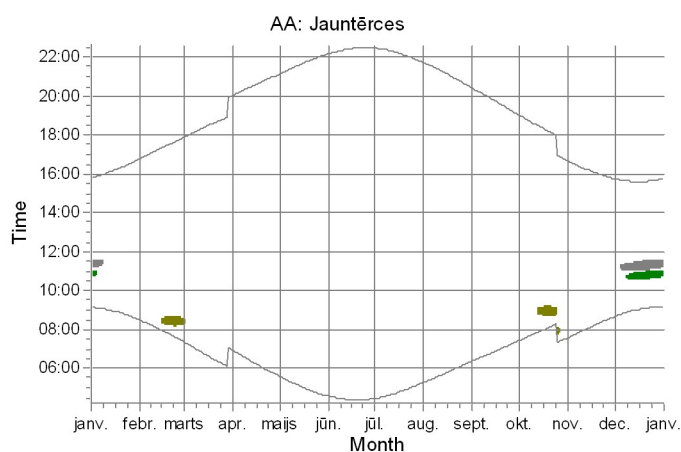
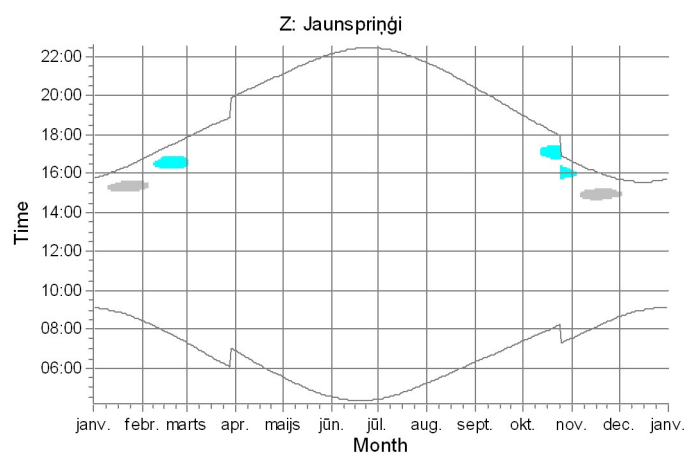
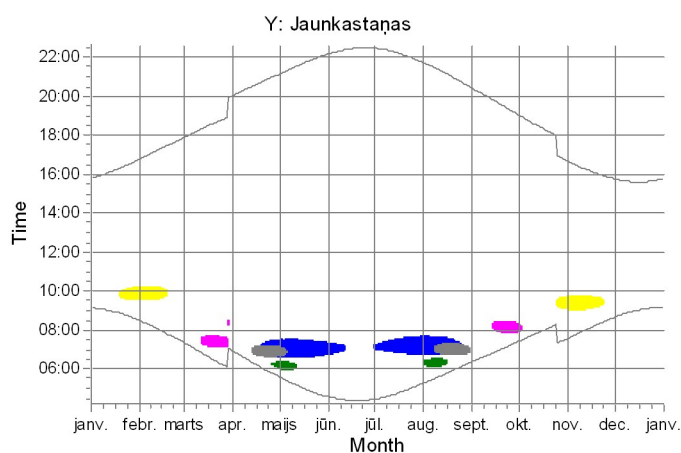
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	7: Z6	10: Z12
3: Z2	5: Z4	8: Z9	

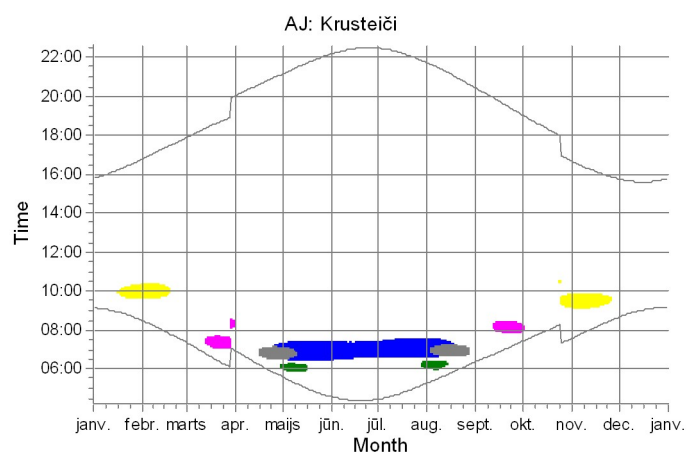
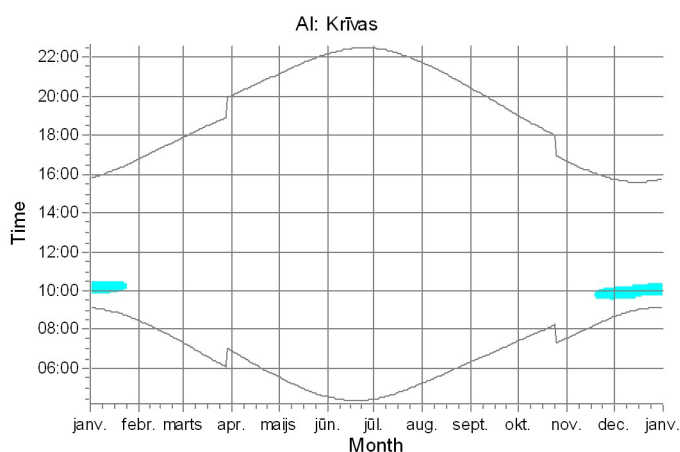
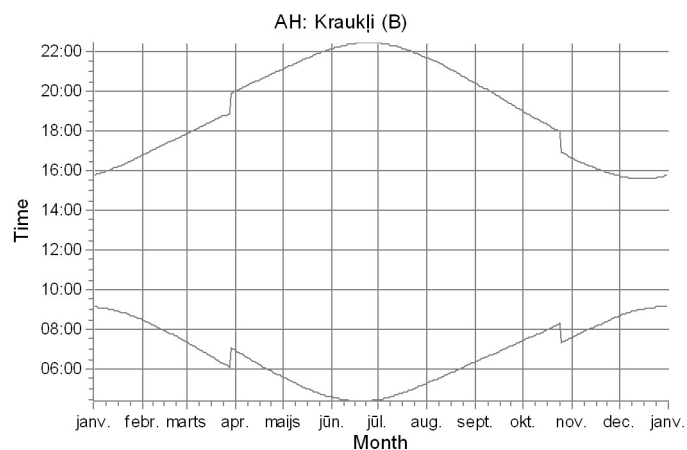
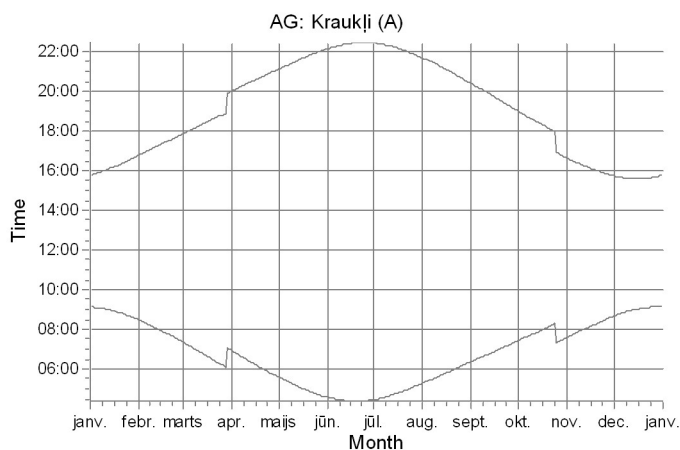
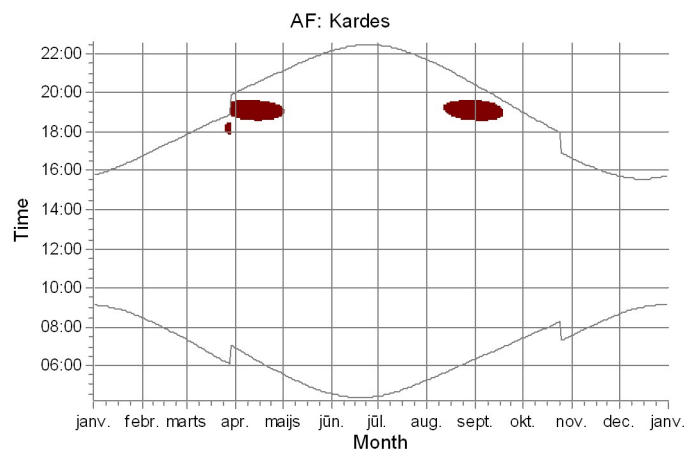
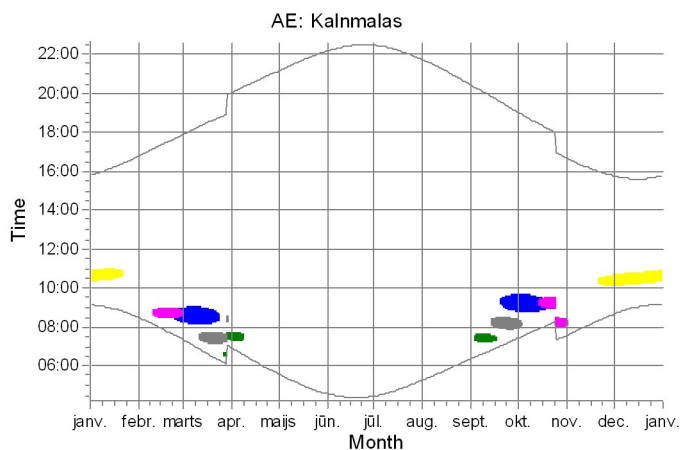
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	10: Z12	13: Z17
2: Z1	5: Z4	11: Z13	
3: Z2	9: Z10	12: Z16	

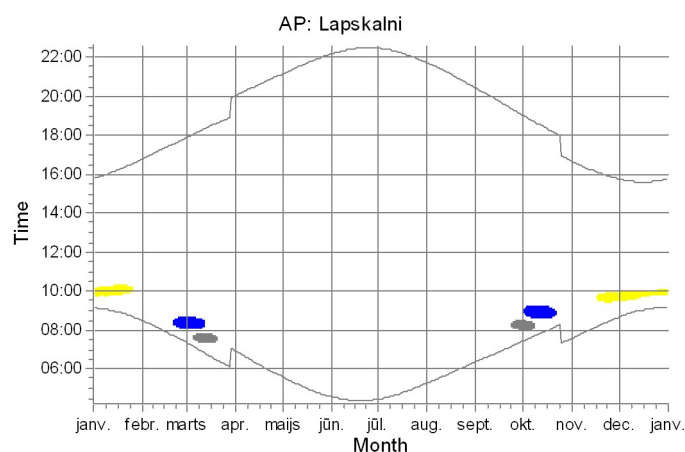
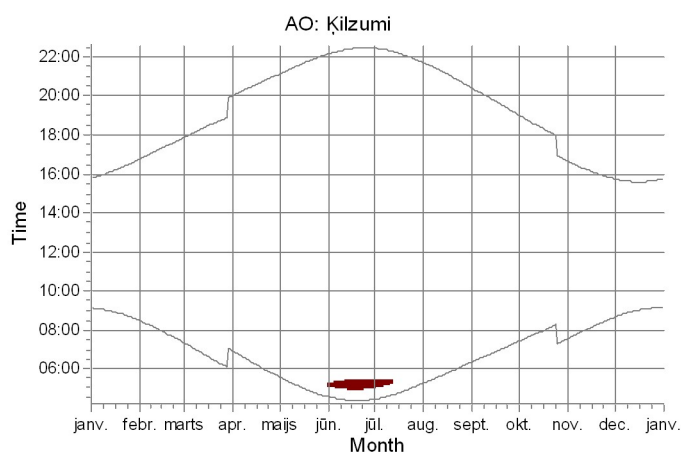
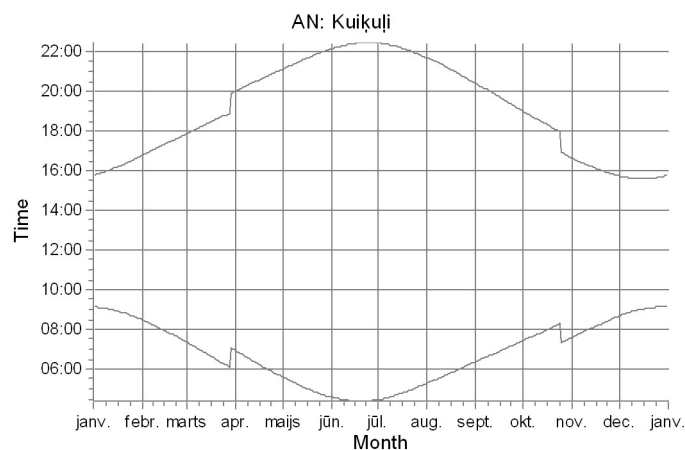
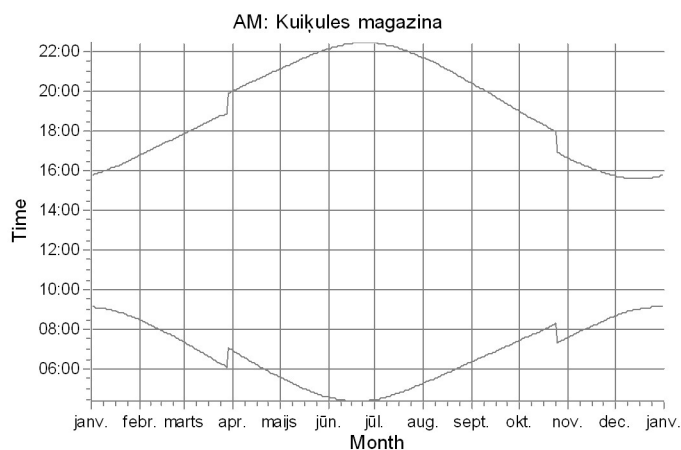
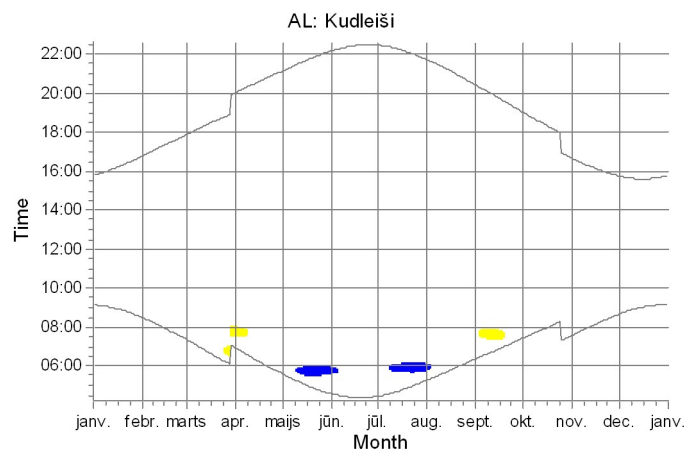
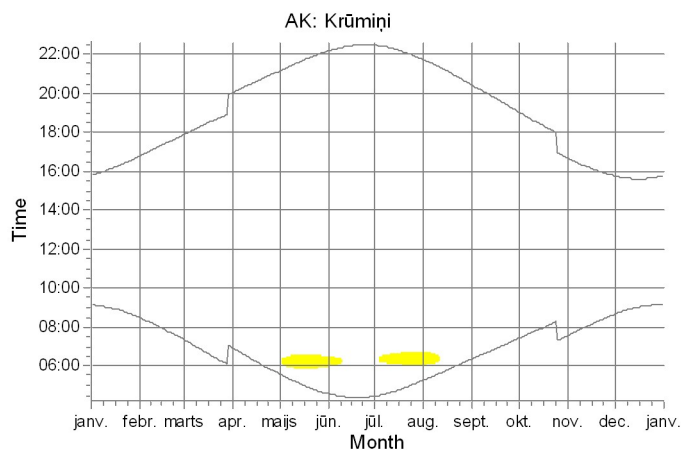
SHADOW - Calendar, graphical



WTGs

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

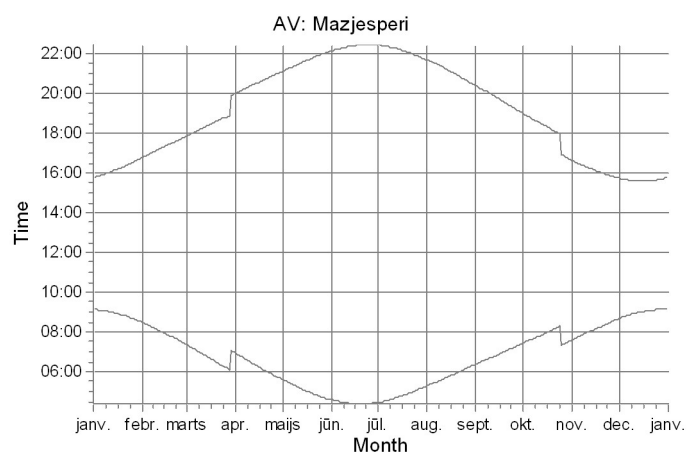
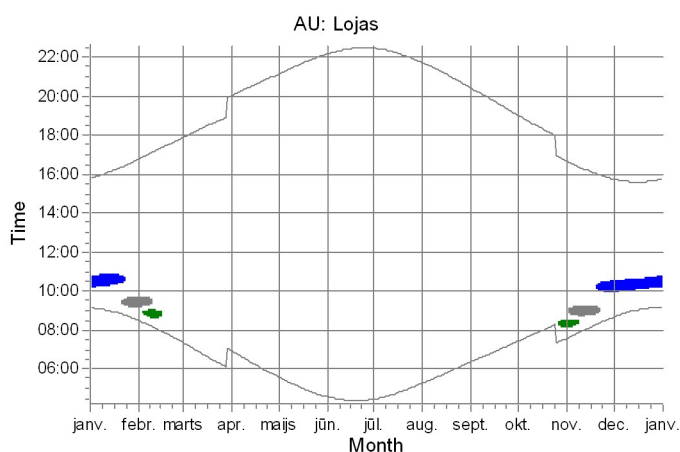
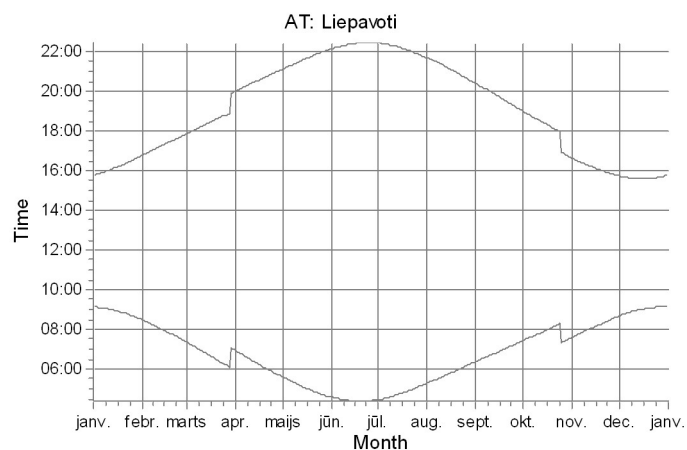
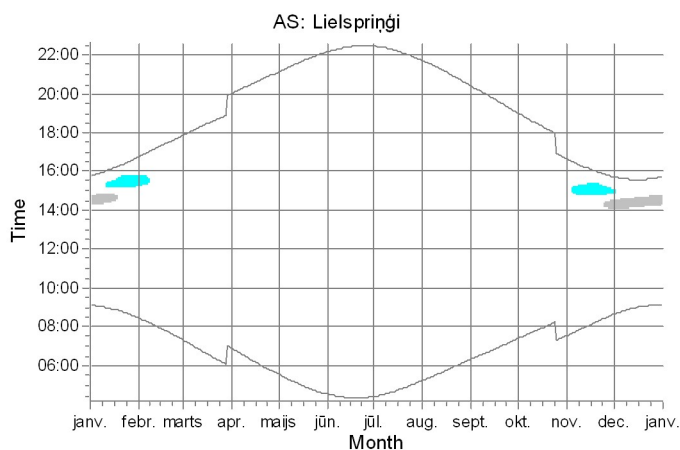
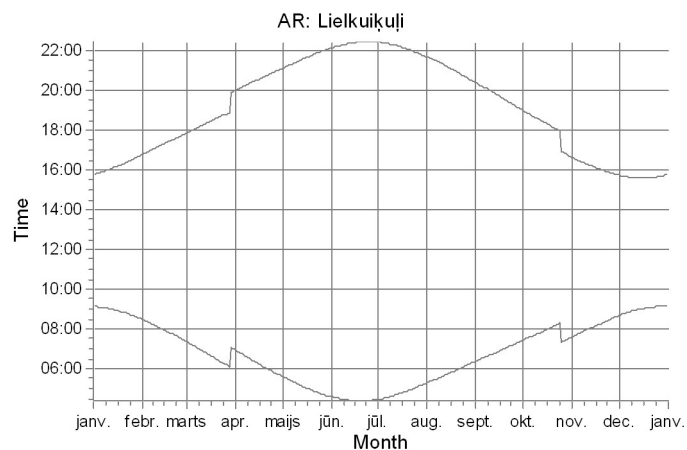
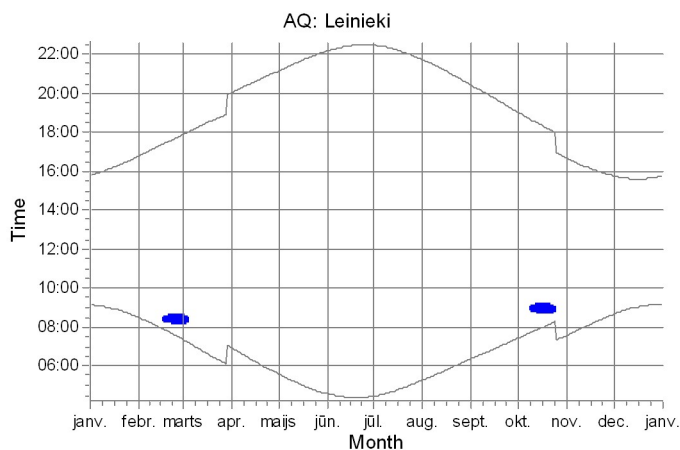
SHADOW - Calendar, graphical



WTGs



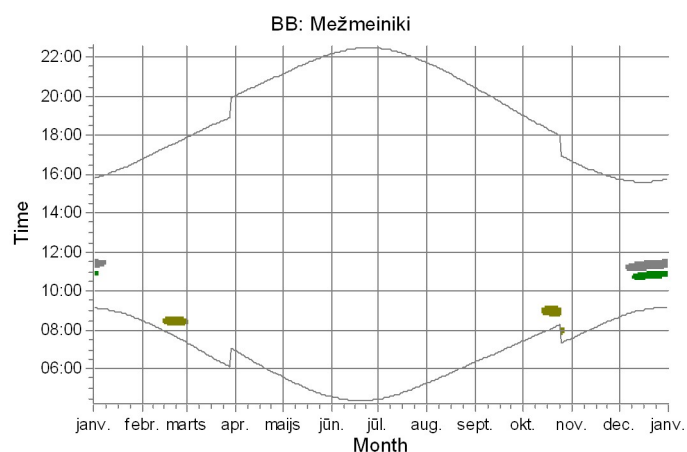
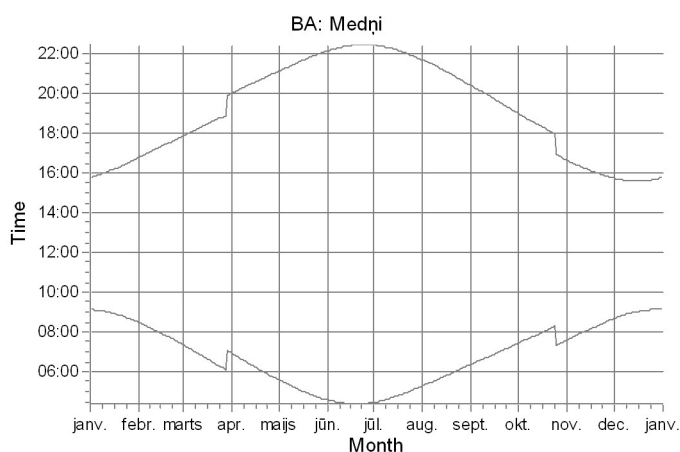
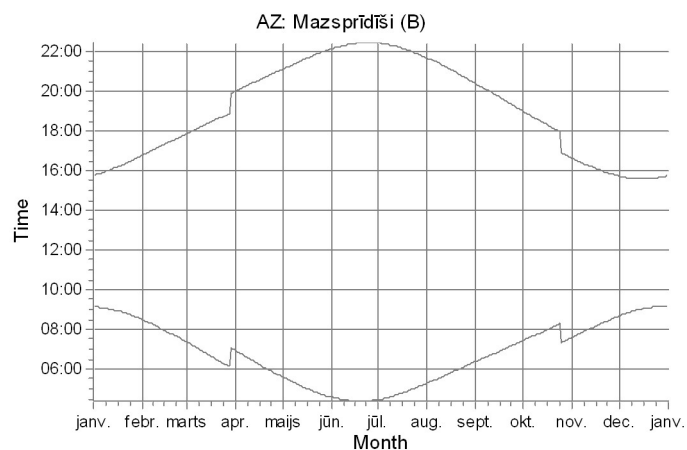
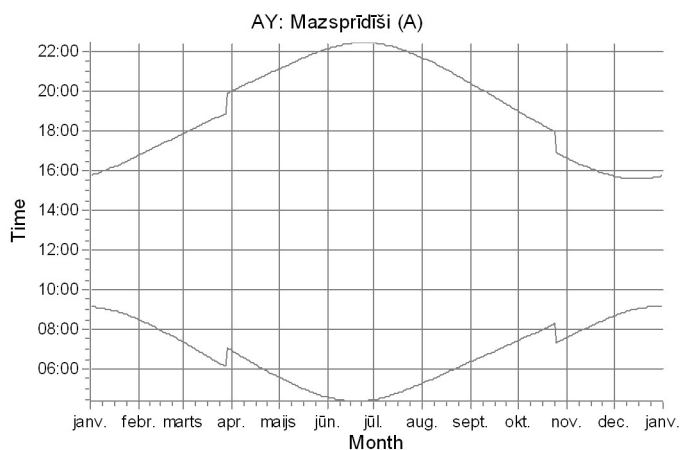
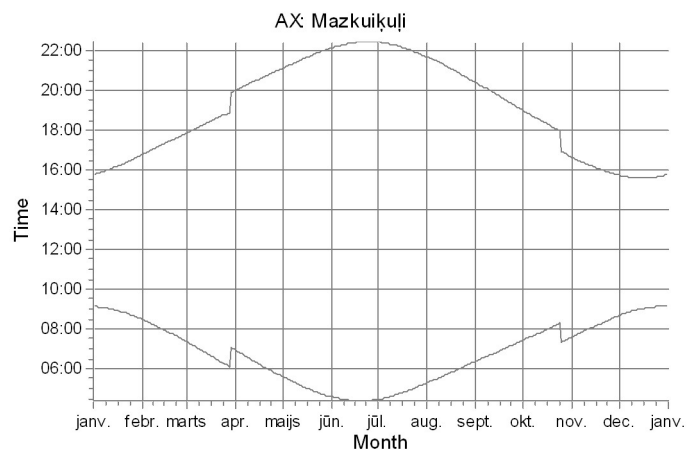
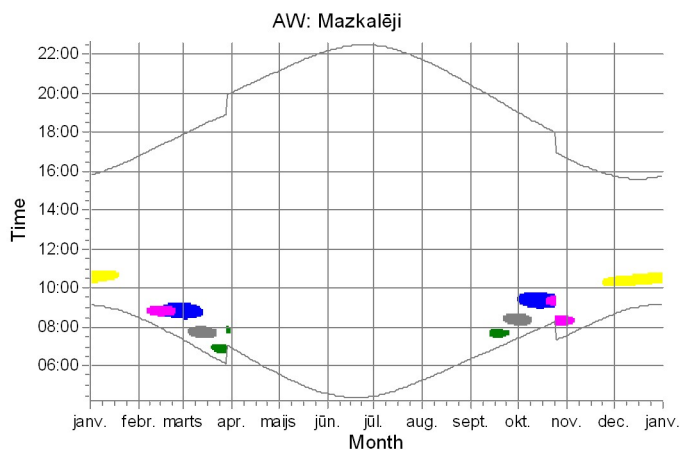
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	13: Z17
3: Z2	12: Z16	

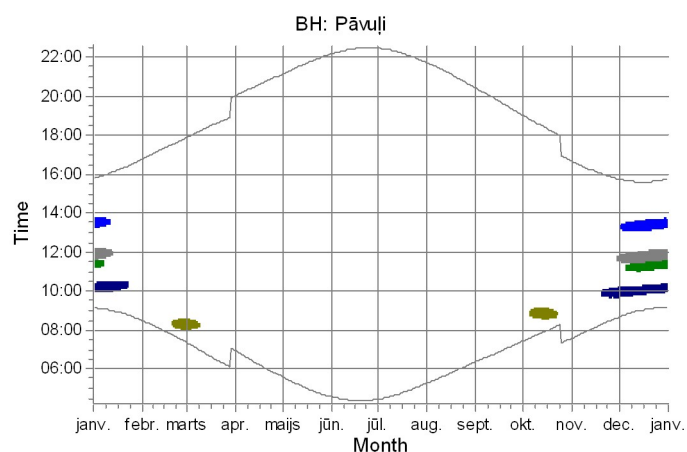
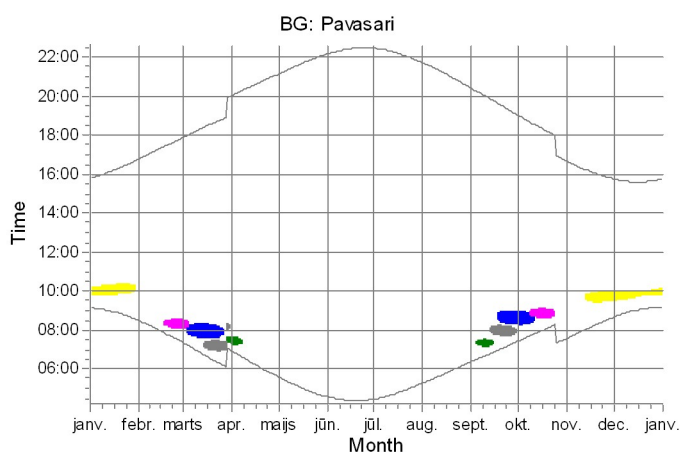
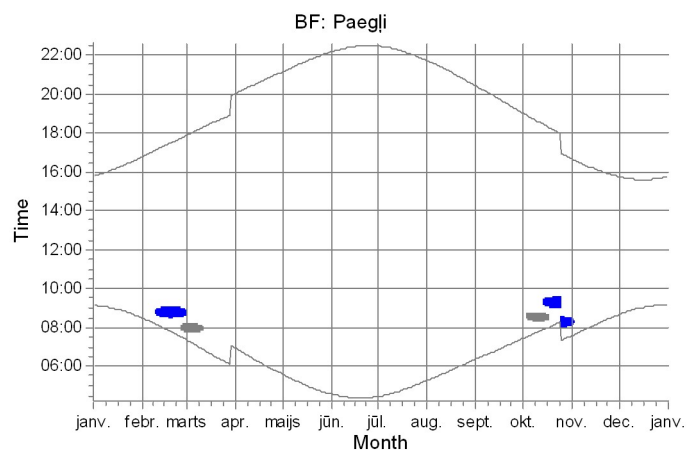
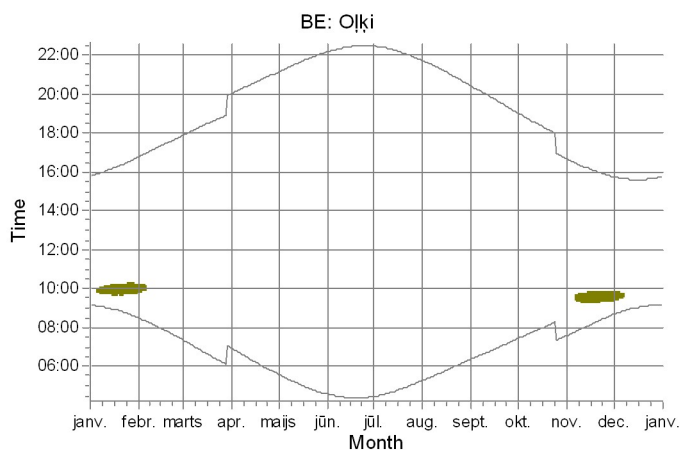
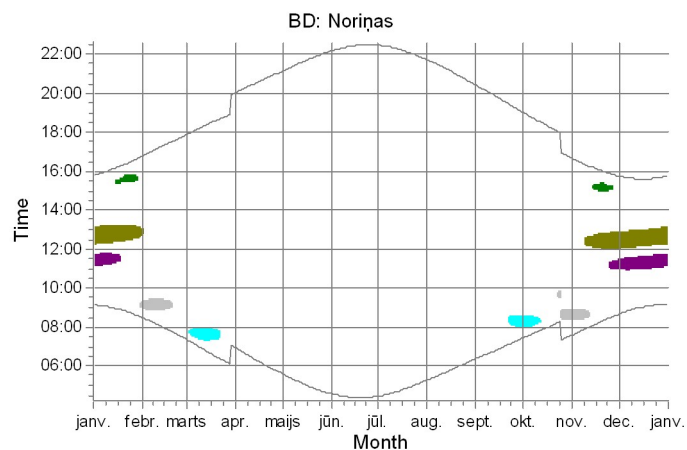
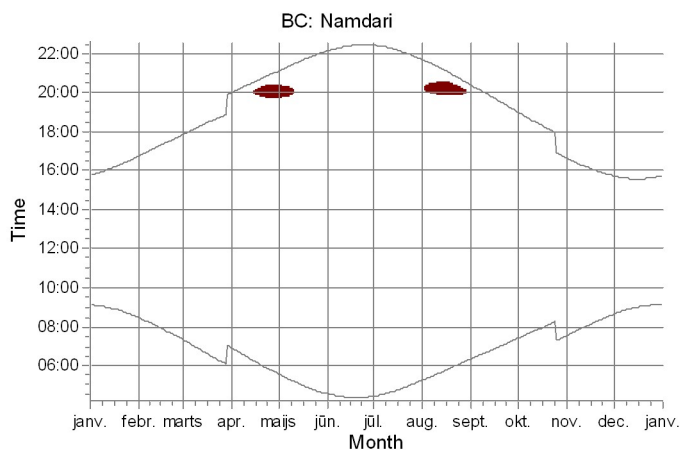
SHADOW - Calendar, graphical



WTGs

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

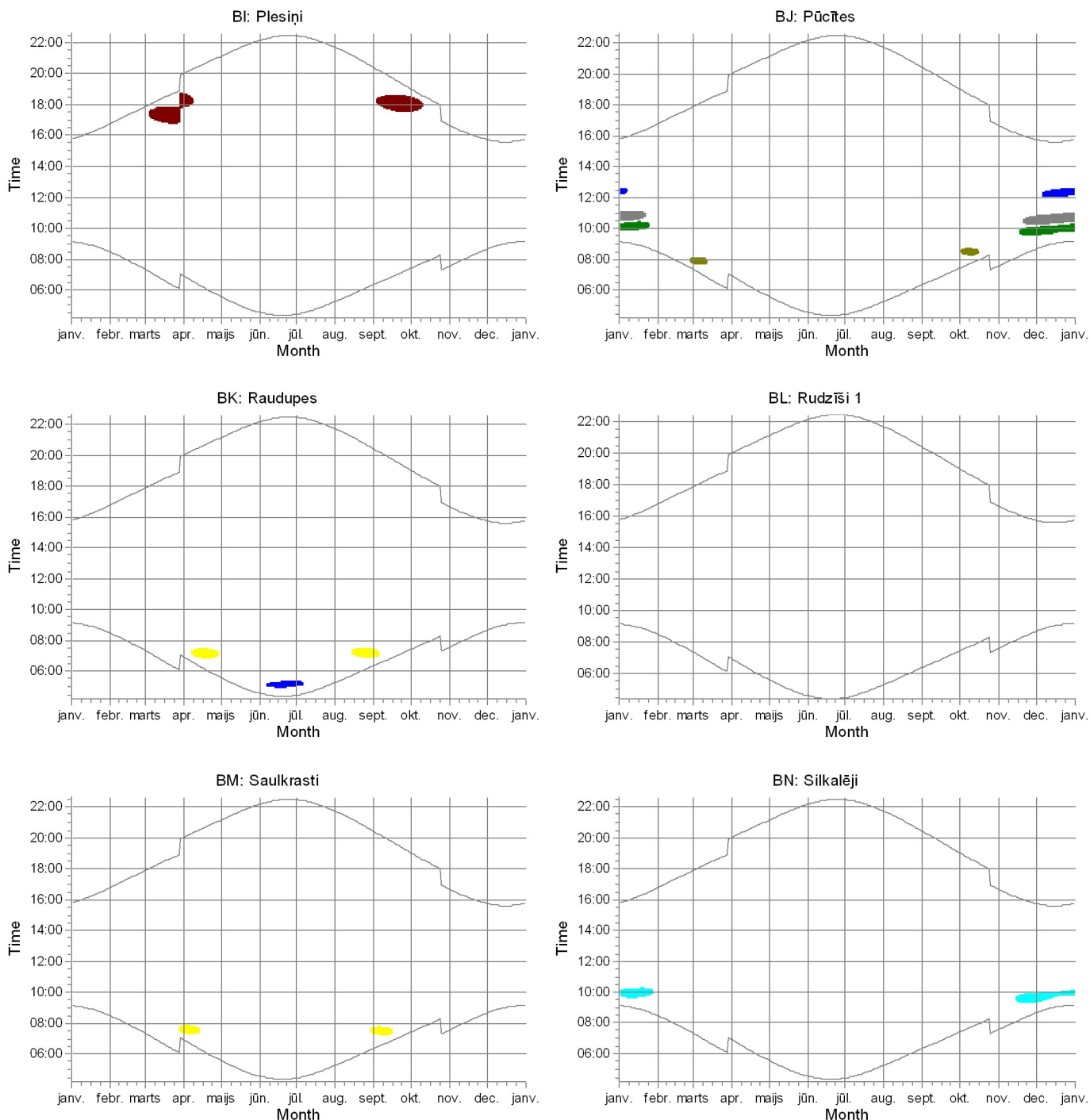
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	8: Z9	12: Z16
2: Z1	5: Z4	10: Z12	13: Z17
3: Z2	7: Z6	11: Z13	

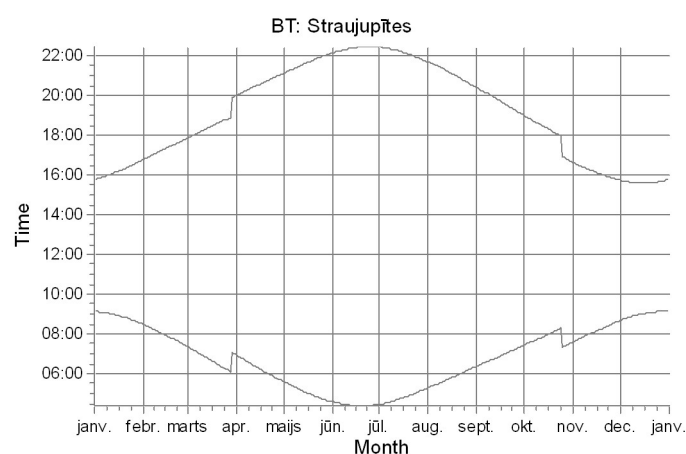
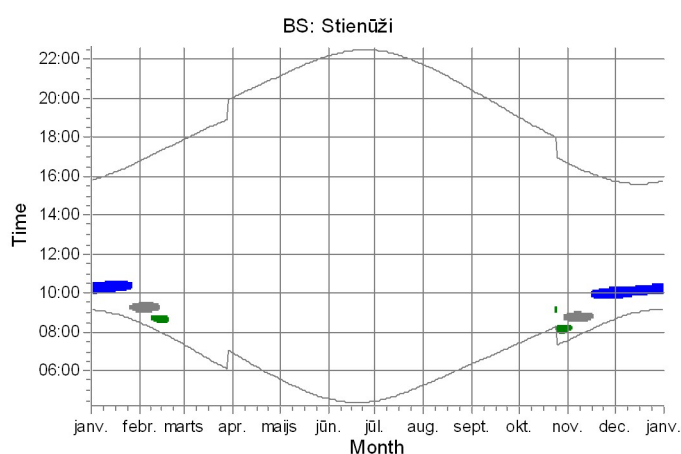
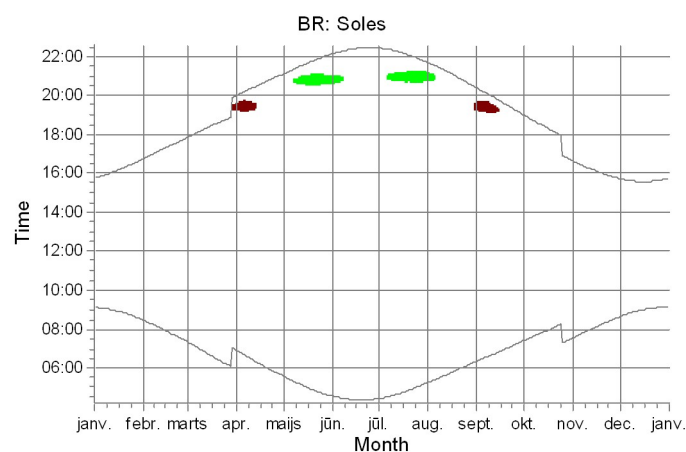
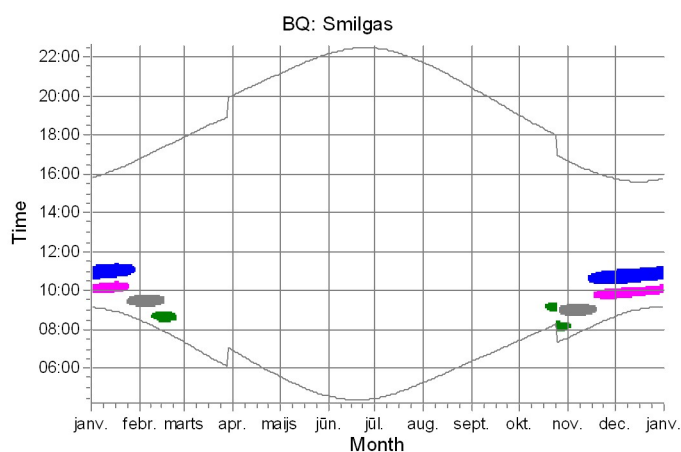
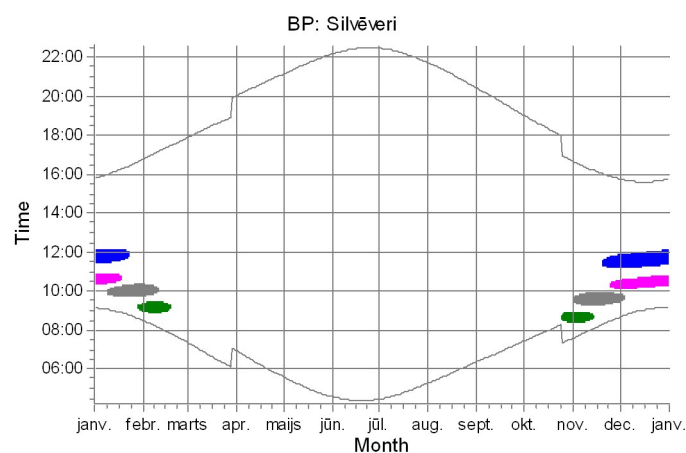
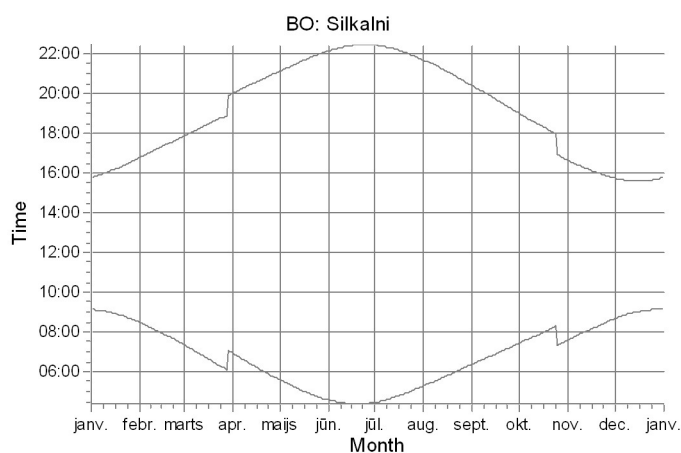
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	3: Z2	8: Z9	13: Z17
2: Z1	4: Z3	10: Z12	

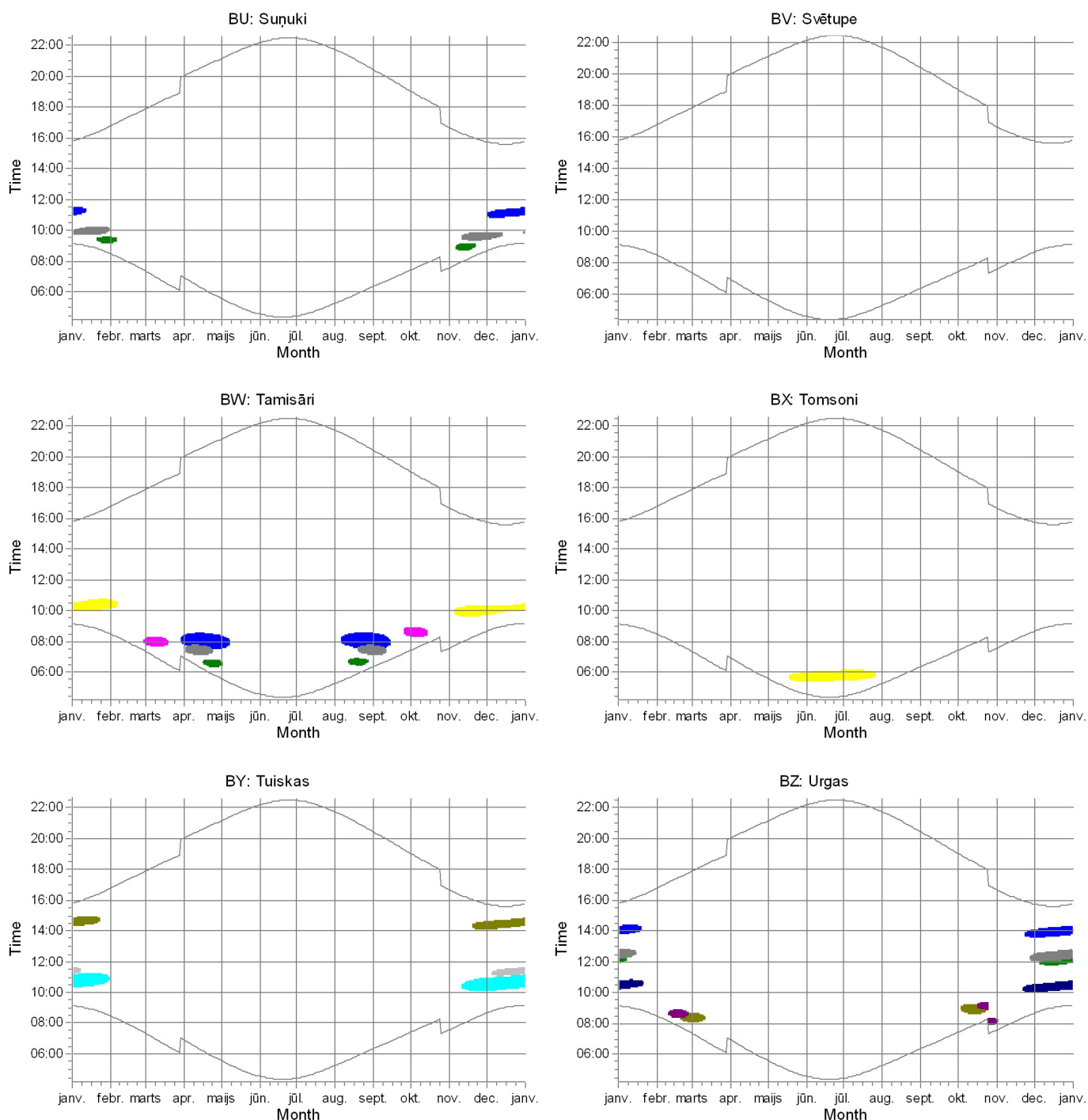
SHADOW - Calendar, graphical



WTGs

 1: VES "Senlejas"	 4: Z3	 8: Z9
 3: Z2	 5: Z4	 9: Z10

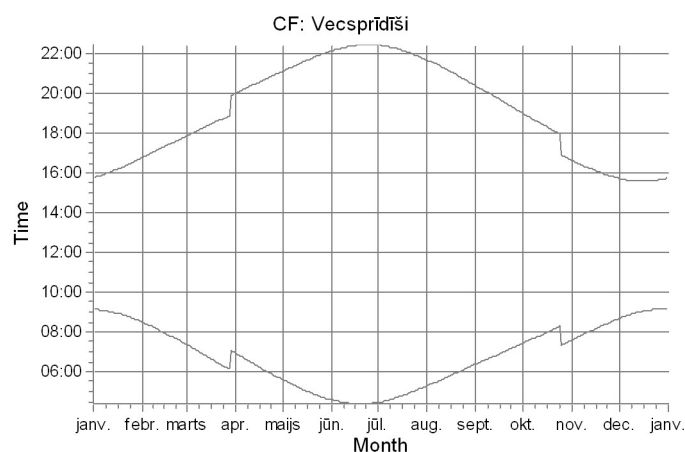
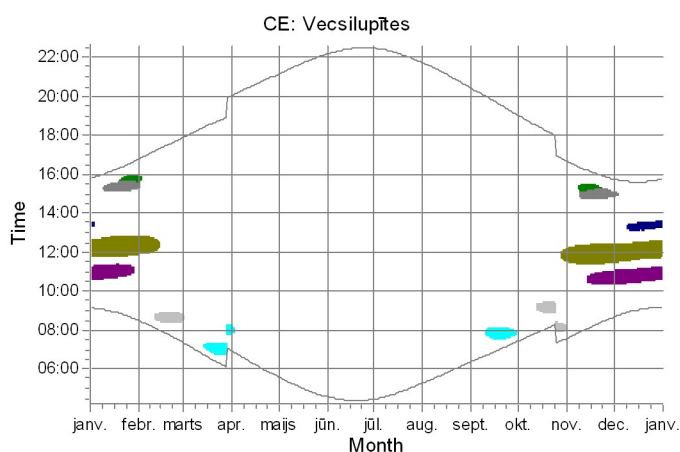
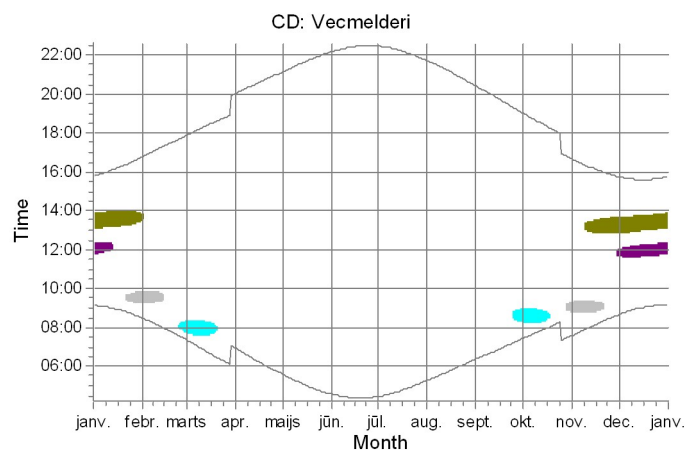
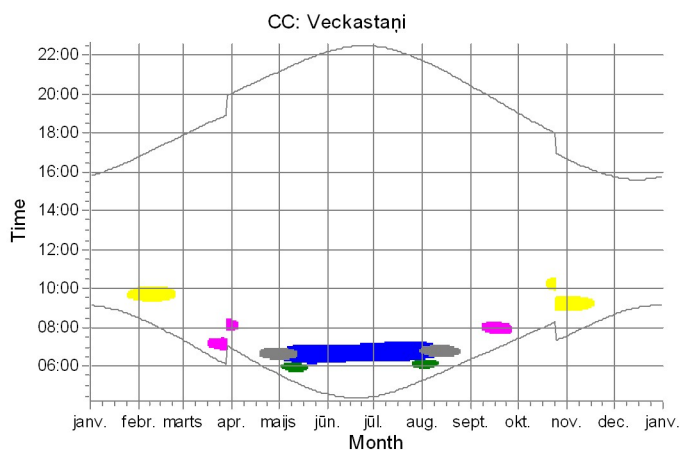
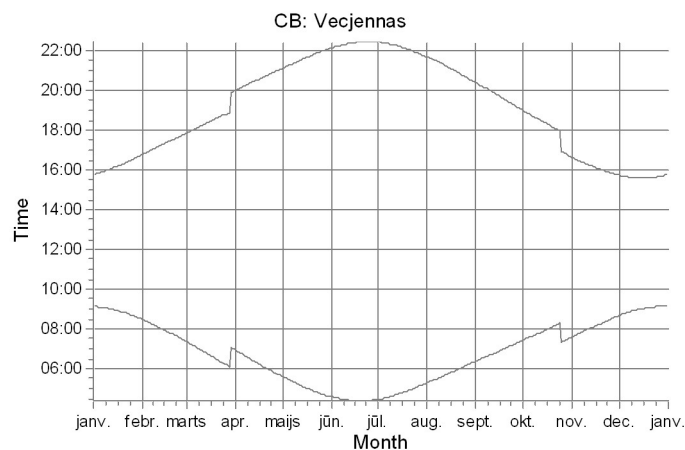
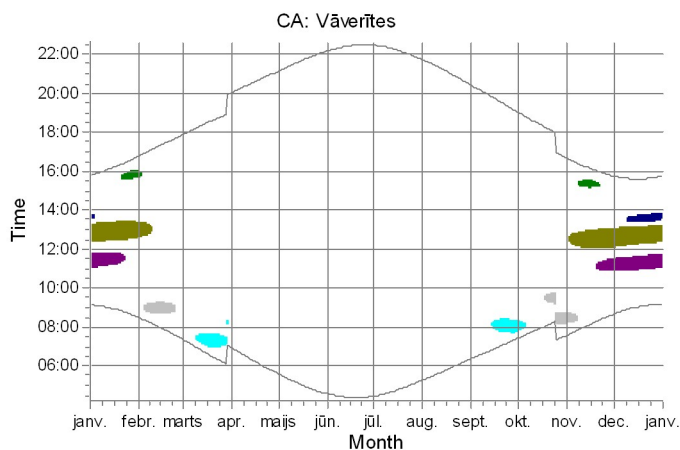
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	10: Z12	13: Z17
2: Z1	5: Z4	11: Z13	
3: Z2	7: Z6	12: Z16	

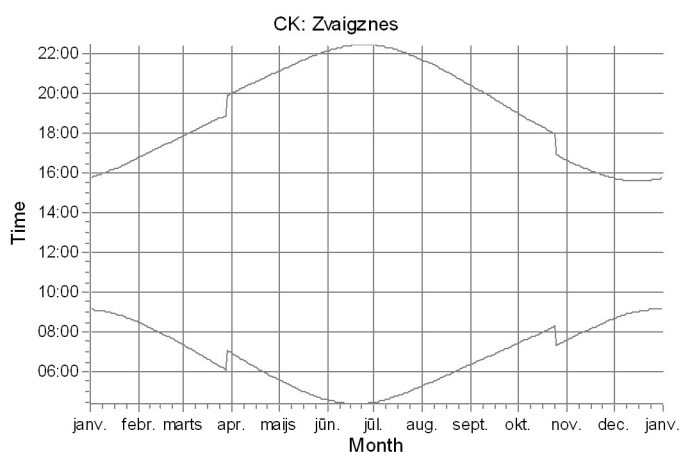
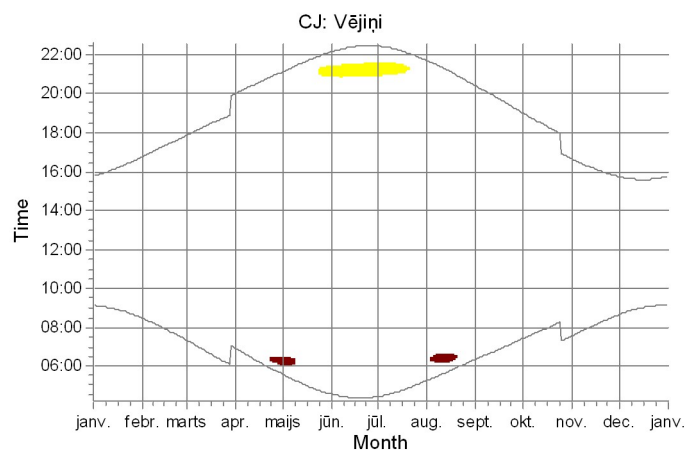
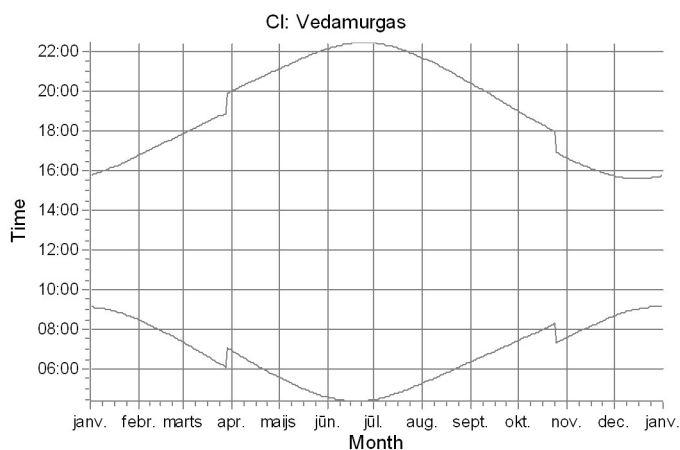
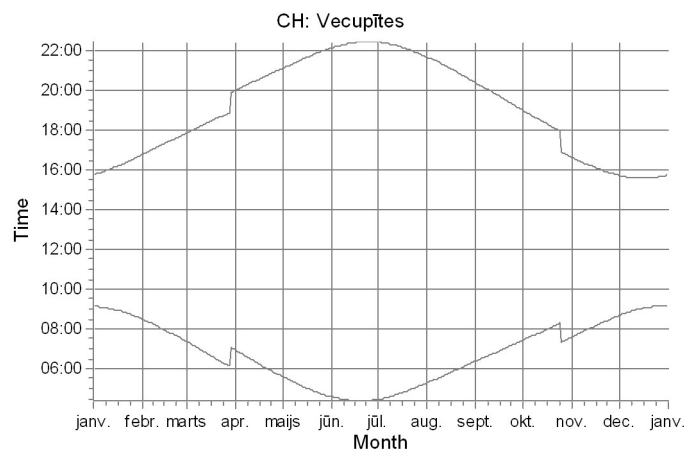
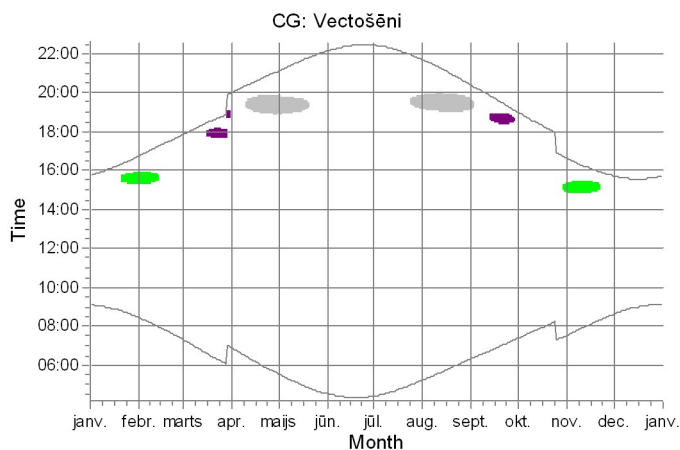
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	10: Z12	13: Z17
2: Z1	5: Z4	11: Z13	
3: Z2	7: Z6	12: Z16	

SHADOW - Calendar, graphical



WTGs

	2: Z1		9: Z10		12: Z16
	8: Z9		11: Z13		

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 11:59-12:15/16 11:14-11:30/16 15:46 09:53-10:14/21 10:38-10:57/19	08:27 15:40-15:54/14 16:46 09:00-09:50/50	07:20 17:52	06:54 07:20-07:41/21 20:01	05:34 06:30-06:34/4 21:07 06:03-06:17/14	04:33 22:09
2	09:06 12:00-12:15/15 11:15-11:30/15 15:47 09:53-10:14/21 10:39-10:56/17	08:25 15:42-15:47/5 08:57-09:50/53 16:48 15:48-15:51/3	07:17 17:54	06:51 07:17-07:40/23 20:03	05:31 06:01-06:18/17 21:10	04:32 22:10
3	09:06 12:01-12:15/14 11:15-11:29/14 10:40-10:47/7 15:48 09:53-10:15/22 10:50-10:54/4	08:23 08:57-09:50/53 16:51	07:14 17:57	06:48 07:16-07:39/23 20:06	05:29 05:58-06:17/19 21:12	04:31 22:12
4	09:05 12:03-12:14/11 11:16-11:29/13 15:50 09:53-10:15/22 10:41-10:46/5	08:21 08:57-09:50/53 16:53 08:53-08:54/1	07:12 17:59	06:46 07:17-07:39/22 20:08	05:27 05:56-06:17/21 21:14	04:29 22:13
5	09:05 12:05-12:14/9 11:19-11:29/10 15:51 09:54-10:16/22	08:19 08:56-09:20/24 09:22-09:50/28 16:56 08:50-08:55/5	07:09 18:01	06:43 07:18-07:38/20 20:10 07:09-07:13/4	05:24 05:54-06:17/23 21:16	04:28 22:15
6	09:04 12:08-12:12/4 11:21-11:28/7 15:53 09:54-10:17/23	08:17 08:48-09:21/33 16:58 09:23-09:50/27	07:06 18:03	06:40 07:18-07:37/19 20:12 07:06-07:14/8	05:22 05:52-06:17/25 21:18	04:27 22:16
7	09:04 09:54-10:18/24 15:54	08:14 08:45-09:21/36 17:00 09:23-09:48/25	07:03 18:06	06:37 07:22-07:35/13 20:14 07:04-07:15/11	05:19 05:50-06:16/26 21:21	04:26 22:17
8	09:03 09:55-10:18/23 15:56	08:12 08:43-09:21/38 17:03 09:25-09:48/23	07:01 18:08	06:34 07:25-07:32/7 20:17 07:01-07:14/13	05:17 05:48-06:15/27 21:23	04:26 22:18
9	09:02 09:54-10:18/24 15:58	08:10 08:40-09:21/41 17:05 09:26-09:47/21	06:58 18:10	06:32 06:58-07:14/16 20:19	05:15 05:47-06:14/27 21:25	04:25 22:19
10	09:01 09:55-10:19/24 15:59	08:07 08:38-09:21/43 17:07 09:28-09:46/18	06:55 18:12	06:29 06:55-07:13/18 20:21	05:13 05:47-06:13/26 21:27	04:24 22:20
11	09:00 09:56-10:19/23 16:01	08:05 08:35-09:20/45 17:10 09:29-09:43/14	06:52 18:15	06:26 06:53-07:13/20 20:23	05:10 05:47-06:10/23 21:29	04:23 22:21
12	08:59 09:55-10:19/24 16:03	08:03 08:33-08:56/23 09:33-09:40/7 17:12 08:57-09:20/23	06:50 18:17	06:23 06:50-07:11/21 20:25	05:08 05:47-06:09/22 21:31	04:23 22:22
13	08:58 09:56-10:20/24 16:05	08:00 08:30-08:54/24 17:15 08:58-09:19/21	06:47 18:19	06:21 06:47-07:09/22 20:28	05:06 05:47-06:08/21 21:33	04:22 22:23
14	08:57 09:56-10:20/24 16:07	07:58 08:27-08:53/26 17:17 08:58-09:18/20	06:44 18:21	06:18 06:45-07:02/17 20:30 07:03-07:07/4	05:04 05:48-06:07/19 21:36	04:22 22:24
15	08:56 09:57-10:20/23 16:09	07:56 08:28-08:49/21 17:19 09:00-09:17/17	06:41 07:08-07:12/4 18:24	06:15 06:45-07:01/16 20:32	05:02 05:48-06:04/16 21:38	04:22 22:25
16	08:54 09:58-10:20/22 16:11 15:26-15:28/2	07:53 08:27-08:49/22 17:22 09:02-09:14/12	06:39 07:05-07:13/8 18:26	06:13 06:45-07:01/16 20:34	05:00 05:49-06:00/11 21:40	04:21 22:25
17	08:53 09:59-10:21/22 16:13 15:26-15:31/5	07:51 08:28-08:49/21 17:24 09:06-09:11/5	06:36 07:02-07:13/11 18:28	06:10 06:37-06:39/2 20:37 06:45-07:00/15	04:58 05:51-05:59/8 21:42	04:21 22:26
18	08:52 09:59-10:20/21 16:15 15:27-15:34/7	07:48 08:27-08:49/22 17:26	06:33 06:59-07:13/14 18:30	06:07 06:34-06:41/7 20:39 06:46-06:58/12	04:56 05:55-05:56/1 21:44	04:21 22:26
19	08:50 15:27-15:36/9 09:28-09:37/9 16:17 10:00-10:20/20	07:46 08:27-08:48/21 17:29	06:30 06:56-07:13/17 18:33	06:05 06:32-06:42/10 20:41 06:48-06:57/9	04:54 21:46	04:21 22:27
20	08:49 15:27-15:38/11 09:26-09:39/13 16:19 10:01-10:20/19	07:43 08:29-08:48/19 17:31	06:27 06:54-07:13/19 18:35	06:02 06:29-06:43/14 20:43	04:52 21:48	04:21 22:27
21	08:47 15:27-15:41/14 10:02-10:19/17 16:21 09:23-09:41/18	07:41 08:29-08:46/17 17:33	06:25 06:51-07:12/21 18:37	05:59 06:27-06:44/17 20:45	04:50 21:50	04:21 22:27
22	08:46 15:27-15:43/16 10:03-10:18/15 16:23 09:21-09:43/22	07:38 08:30-08:45/15 17:36	06:22 06:48-07:11/23 18:39	05:57 06:24-06:43/19 20:48	04:48 21:52	04:21 22:28
23	08:44 15:28-15:46/18 10:05-10:17/12 16:25 09:19-09:44/25	07:35 08:32-08:42/10 17:38	06:19 06:45-07:10/25 18:41	05:54 06:24-06:44/20 20:50	04:47 21:53	04:21 22:28
24	08:42 15:29-15:48/19 10:07-10:15/8 16:28 09:17-09:45/28	07:33 17:40	06:16 06:42-07:07/25 18:44	05:51 06:23-06:43/20 20:52	04:45 21:55	04:22 22:28
25	08:41 15:30-15:51/21 16:30 09:15-09:46/31	07:30 17:43	06:13 06:41-06:59/18 18:46	05:49 06:24-06:43/19 20:54	04:43 21:57	04:22 22:28
26	08:39 15:31-15:54/23 16:32 09:13-09:47/34	07:28 17:45	06:11 06:42-07:00/18 18:48	05:46 06:24-06:43/19 20:56	04:42 21:59	04:23 22:28
27	08:37 15:33-15:56/23 16:34 09:11-09:48/37	07:25 17:47	06:08 06:41-06:59/18 18:50 06:34-06:36/2	05:44 06:24-06:42/18 20:59 06:12-06:13/1	04:40 22:01	04:23 22:28
28	08:35 15:35-15:57/22 16:37 09:12-09:49/37	07:22 17:50	06:05 06:42-06:57/15 18:52 06:31-06:38/7	05:41 06:25-06:41/16 21:01 06:10-06:15/5	04:38 22:02	04:24 22:27
29	08:33 15:35-15:56/21 09:07-09:11/4 16:39 09:12-09:49/37		07:02 07:28-07:39/11 19:55 07:42-07:56/14	05:39 06:26-06:40/14 21:03 06:08-06:17/9	04:37 22:04	04:24 22:27
30	08:31 15:36-15:56/20 16:41 09:04-09:49/45		06:59 07:26-07:41/15 19:57 07:45-07:54/9	05:36 06:27-06:37/10 21:05 06:05-06:17/12	04:36 22:06	04:25 22:27
31	08:29 15:38-15:55/17 16:44 09:02-09:50/48		06:57 07:23-07:41/18 19:59		04:34 22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1332	999	312	602	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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15 05:57-06:20/23	06:21 06:52-07:12/20	07:25	07:34 08:08-08:51/43	08:39 09:38-10:01/23
	22:26	21:41	20:23	19:00	16:38 08:57-09:15/18	15:43
2	04:27	05:17 05:57-06:22/25	06:23 06:54-07:12/18	07:27	07:36 08:10-08:50/40	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 06:56-07:12/16	07:29	07:38 08:13-08:51/38	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 08:15-08:50/35	08:44 09:39-10:02/23
	22:24	21:35	20:15 06:58-07:12/14	18:51	16:31 08:53-09:18/25	15:40
5	04:30	05:23 05:58-06:25/27	06:29 07:18-07:32/14	07:33	07:43 08:26-08:50/24 08:53-09:19/26	08:46 09:39-10:03/24
	22:24	21:33	20:12 07:00-07:11/11	18:48	16:29 08:18-08:25/7	15:40
6	04:31	05:26 06:00-06:26/26	06:32 07:15-07:33/18	07:35	07:45 08:21-08:49/28	08:48 11:54-11:56/2 11:07-11:14/7
	22:23	21:30	20:10 07:02-07:10/8	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 07:13-07:33/20	07:38	07:48 08:26-09:20/54	08:49 11:51-12:00/9 11:05-11:15/10
	22:22	21:28	20:07 07:04-07:08/4	18:43	16:24 08:23-08:24/1	15:38 09:40-10:03/23
8	04:33	05:30 06:04-06:26/22	06:36 07:11-07:34/23	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 07:11-07:34/23	07:42	07:52 15:13-15:22/9	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 07:10-07:33/23	07:44	07:54 15:11-15:25/14	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 07:12-07:33/21	07:46	07:57 15:09-15:26/17	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 06:37-06:44/7	06:44 07:14-07:32/18	07:48	07:59 15:08-15:28/20	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 07:16-07:31/15	07:51	08:01 15:07-15:28/21 08:39-08:42/3	08:57 11:49-12:07/18 11:03-11:21/18
	22:15	21:13 06:14-06:25/11	19:50 07:35-07:44/9	18:27	16:12 08:44-09:20/36	15:35 09:43-10:04/21 10:27-10:49/22
14	04:42	05:43 06:33-06:48/15	06:48 07:18-07:30/12	07:53	08:04 15:07-15:29/22	08:59 11:50-12:09/19 11:04-11:23/19
	22:14	21:11 06:16-06:24/8	19:47 07:33-07:46/13	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 15:05-15:28/23	09:00 11:50-12:09/19 11:04-11:24/20
	22:12	21:08 06:18-06:23/5	19:44 07:20-07:28/8	18:21	16:08 08:44-09:21/37	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 15:04-15:27/23	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 15:04-15:25/21	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 07:29-07:48/19	08:02 09:06-09:11/5	08:12 15:03-15:22/19 09:41-09:49/8	09:02 11:51-12:10/20 11:05-11:26/21
	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 15:03-15:21/18 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 15:02-15:18/16 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 08:56-09:18/22	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 15:03-15:17/14 09:38-09:55/17	09:05 11:52-12:13/21 11:06-11:27/21
	22:03	20:53	19:28	18:05	15:57 08:59-09:17/18	15:36 09:50-10:08/18 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 15:03-15:14/11 09:02-09:15/13	09:05 11:52-12:13/21 11:06-11:27/21
	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 15:03-15:12/9 09:05-09:14/9	09:06 11:53-12:14/21 11:08-11:28/20
	21:59	20:48 06:55-06:57/2	19:22	18:00	15:54 09:37-09:57/20	15:37 09:51-10:09/18 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 09:37-09:58/21	09:06 11:53-12:14/21 11:08-11:28/20
	21:58	20:45 06:51-07:01/10	19:19	17:58	15:52 15:04-15:11/7	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 07:57-08:19/22	08:27 09:36-09:58/22	09:06 11:54-12:14/20 11:08-11:28/20
	21:56	20:42 06:49-07:02/13	19:16	16:55 08:34-08:42/8	15:51 15:04-15:09/5	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 06:48-07:03/15	19:13	16:53 08:32-08:45/13	15:50 15:05-15:08/3	15:39 09:51-10:10/19 10:32-10:57/25
27	05:05 06:01-06:11/10	06:10 06:47-07:03/16	07:16 07:46-07:55/9	07:22 07:57-08:19/22	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 06:47-07:03/16	07:18 07:48-07:53/5	07:24 07:58-08:23/25	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 08:28-08:48/20	15:47	15:41 09:51-10:11/20 10:34-10:57/23
29	05:09 05:58-06:15/17	06:15 06:46-07:08/22	07:20 07:50-07:51/1	07:27 08:00-08:24/24	08:35 09:36-10:00/24	09:07 11:56-12:16/20 11:11-11:30/19
	21:48	20:32	19:05	16:45 08:27-08:49/22	15:46	15:42 09:51-10:12/21 10:35-10:57/22
30	05:11 05:58-06:18/20	06:17 06:48-07:10/22	07:22	07:29 08:03-08:26/23 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 06:50-07:11/21		07:31 08:05-08:50/45		09:07 11:58-12:15/17 11:12-11:30/18
	21:44	20:26		16:40 08:58-09:13/15		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	86	642	563	420	1474	2075

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 10:05-10:50/45 15:46 09:50-10:04/14 09:06 09:49-10:51/62 15:47 09:06 09:48-10:51/63 15:48 09:05 09:48-10:51/63 15:50 09:05 09:49-10:52/63 15:51 09:04 09:49-10:53/64 15:53 09:04 09:49-10:53/64 15:54 09:03 09:49-10:52/63 15:56 09:02 09:48-10:53/65 15:58 09:01 09:45-10:53/68 15:59 09:00 09:43-10:54/71 16:01 08:59 09:42-10:53/71 16:03 08:58 09:37-10:54/77 16:05 08:57 09:35-10:53/78 16:07 08:56 09:34-10:54/80 16:09 08:54 09:32-10:53/81 16:11 08:53 09:31-10:52/81 16:13 08:52 09:30-10:52/82 16:15 08:50 09:30-10:51/81 16:17 08:49 09:30-10:50/80 16:19 08:47 09:30-10:39/69 16:21 10:41-10:47/6 08:46 09:30-10:39/69 16:23 08:44 09:30-10:40/70 16:26 08:42 09:30-10:40/70 16:28 08:41 09:30-10:40/70 16:30 08:39 09:31-10:40/69 16:32 08:37 09:31-10:40/69 16:35 08:35 09:30-10:40/70 16:37 08:33 09:28-10:39/71 16:39 08:31 09:27-10:38/71 16:42 08:29 09:26-10:38/72 16:44	08:27 09:26-10:37/71 16:46 08:25 09:25-10:36/71 16:49 08:23 09:25-10:34/69 16:51 08:21 09:24-10:18/54 16:53 10:19-10:33/14 08:19 09:24-10:18/54 16:56 10:23-10:27/4 08:17 09:24-10:18/54 16:58 08:14 09:23-10:17/54 17:00 08:12 09:23-10:17/54 17:03 08:10 09:23-10:17/54 17:05 08:07 09:23-10:17/54 17:08 08:05 09:23-10:15/52 17:10 08:03 09:24-10:15/51 17:12 08:00 09:24-10:14/50 17:15 07:58 09:24-10:12/48 17:17 07:56 09:25-10:11/46 17:19 07:53 09:25-10:08/43 17:22 07:51 09:26-10:05/39 17:24 07:48 09:27-09:58/31 17:26 07:46 09:28-09:56/28 17:29 07:43 09:30-09:55/25 17:31 07:41 09:31-09:53/22 17:34 07:38 09:33-09:49/16 17:36 07:35 09:38-09:44/6 17:38 07:33 17:41 07:30 07:28 17:45 07:25 17:47 17:50	07:20 17:52 07:17 17:54 07:14 17:57 07:12 17:59 07:09 18:01 07:06 18:03 07:03 18:06 07:01 18:08 06:58 18:10 06:55 18:13 06:52 18:15 06:50 18:17 06:47 18:19 06:44 18:22 06:41 18:24 06:39 18:26 06:36 18:28 06:33 18:30 06:30 18:33 06:27 18:35 06:25 18:37 06:22 18:39 06:19 18:41 06:16 18:44 06:13 06:42-06:52/10 18:46 06:11 06:39-06:54/15 18:48 06:08 06:37-06:55/18 18:50 06:05 06:35-06:55/20 18:52 07:02 07:30-07:56/26 19:55 07:00 07:28-07:57/29 19:57 06:57 07:26-07:56/30 19:59	06:54 07:25-07:56/31 20:01 06:51 07:23-07:55/32 20:03 06:48 07:23-07:55/32 20:06 06:46 07:22-07:54/32 20:08 06:43 07:22-07:53/31 20:10 06:40 07:21-07:51/30 20:12 06:37 07:22-07:50/28 20:14 06:35 07:22-07:46/24 20:17 07:10-07:13/3 06:32 07:22-07:43/21 20:19 07:04-07:17/13 06:29 07:24-07:42/18 20:21 07:01-07:19/18 06:26 07:24-07:40/16 20:23 07:00-07:21/21 06:24 07:26-07:37/11 20:25 06:58-07:22/24 06:21 06:56-07:23/27 20:28 06:18 06:53-07:23/30 20:30 06:15 06:52-07:23/31 20:32 06:13 06:51-07:24/33 20:34 06:10 06:49-07:23/34 20:37 06:07 06:49-07:23/34 20:39 06:05 06:48-07:23/35 20:41 06:02 06:47-07:22/35 20:43 05:59 06:47-07:21/34 20:45 05:57 06:47-07:20/33 20:48 05:54 06:47-07:20/33 20:50 05:52 06:47-07:19/32 20:52 05:49 06:47-07:17/30 20:54 05:46 06:48-07:15/27 20:56 05:44 06:48-07:14/26 20:59 05:41 06:49-07:13/24 21:01 05:39 06:50-07:12/22 21:03 05:36 06:50-07:10/20 21:05	05:34 06:52-07:09/17 21:07 05:31 06:54-07:07/13 21:10 05:29 06:08-06:18/10 21:12 06:59-07:02/3 05:27 06:04-06:20/16 21:14 05:24 06:03-06:21/18 21:16 05:22 06:01-06:23/22 21:18 05:20 06:00-06:24/24 21:21 05:17 06:59-06:25/26 05:15 05:58-06:26/28 21:25 05:13 05:58-06:26/28 21:27 05:11 05:57-06:27/30 05:08 05:57-06:27/30 21:31 05:06 05:56-06:27/31 21:33 05:04 05:56-06:27/31 21:35 05:02 05:56-06:27/31 21:38 05:00 05:55-06:27/32 21:40 04:58 05:56-06:28/32 21:42 04:56 05:56-06:28/32 21:44 04:54 05:35-05:44/9 21:46 05:56-06:27/31 04:52 05:34-05:47/13 21:48 05:57-06:28/31 04:50 05:32-05:48/16 21:50 05:56-06:27/31 04:49 05:30-05:49/19 21:51 05:56-06:27/31 04:47 05:30-05:51/21 21:53 05:57-06:27/30 04:45 05:28-05:51/23 21:55 05:57-06:26/29 04:43 21:04-21:12/8 05:58-06:26/28 21:57 05:28-05:52/24 04:42 21:02-21:15/13 05:59-06:26/27 21:59 05:28-05:53/25 04:40 21:00-21:16/16 05:59-06:25/26 22:01 05:27-05:53/26 04:39 21:00-21:17/17 05:59-06:25/26 22:02 05:27-05:54/27 04:37 20:59-21:18/19 06:00-06:25/25 22:04 05:27-05:55/28 04:36 20:58-21:20/22 06:01-06:24/23 22:06 05:27-05:55/28 04:34 20:58-21:20/22 06:02-06:24/22 22:07 05:27-05:56/29	04:33 20:58-21:21/23 06:03-06:24/21 22:09 05:27-05:56/29 04:32 20:57-21:22/25 06:03-06:23/20 22:10 05:25-05:56/31 04:31 20:57-21:22/25 06:04-06:22/18 22:12 05:23-05:57/34 04:30 20:57-21:23/26 06:05-06:22/17 22:13 05:22-05:57/35 04:29 20:56-21:23/27 06:06-06:21/15 22:14 05:21-05:57/36 04:28 20:56-21:23/27 06:07-06:20/13 22:16 05:20-05:57/37 04:27 20:55-21:23/28 06:09-06:19/10 22:17 05:21-05:58/37 04:26 20:56-21:25/29 06:10-06:18/8 22:18 05:20-05:58/38 04:25 20:56-21:24/28 06:12-06:16/4 22:19 05:19-05:58/39 04:24 20:56-21:25/29 22:20 05:19-05:58/39 04:24 20:56-21:25/29 22:21 05:19-05:58/39 04:23 20:56-21:26/30 22:22 05:19-05:59/40 04:23 20:57-21:26/29 22:23 05:19-05:59/40 04:22 20:56-21:26/30 22:24 05:18-05:59/41 04:22 20:56-21:27/31 22:25 05:19-05:59/40 04:22 20:57-21:27/30 22:25 05:19-05:59/40 04:21 20:57-21:27/30 22:26 05:19-06:00/41 04:21 20:57-21:28/31 22:26 05:19-06:00/41 04:21 20:57-21:28/31 22:27 05:19-06:00/41 04:21 20:57-21:28/31 22:27 05:19-06:00/41 04:21 20:57-21:28/31 22:28 05:20-06:01/41 04:22 20:58-21:29/31 22:28 05:20-06:01/41 04:22 20:59-21:29/30 22:28 05:21-06:02/41 04:23 20:59-21:29/30 22:28 05:21-06:01/40 04:23 20:59-21:30/31 22:28 05:22-06:02/40 04:24 20:59-21:29/30 22:27 05:21-06:02/41 04:25 21:00-21:30/30 22:27 05:22-06:03/40 22:27 05:23-06:03/40
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	2192	1064	148	925	1219	2165

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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 21:00-21:29/29 22:26 05:23-06:02/39	05:15 06:07-06:37/30 21:41	06:21 07:23-07:39/16 20:23 06:59-07:20/21	07:25 19:00	07:34 08:53-09:46/53 16:38	08:39 09:25-10:36/71 15:44
2	04:27 21:00-21:30/30 22:26 05:23-06:03/40	05:17 06:08-06:37/29 21:39	06:23 07:22-07:40/18 20:21 07:00-07:18/18	07:27 18:57	07:36 08:52-09:46/54 16:36	08:41 09:28-10:36/68 15:42
3	04:28 21:01-21:30/29 22:25 05:24-06:03/39	05:19 06:08-06:36/28 21:37	06:25 07:20-07:41/21 20:18 07:02-07:15/13	07:29 18:54	07:38 08:53-09:47/54 16:34	08:43 09:33-10:37/64 15:42
4	04:29 21:01-21:30/29 06:16-06:22/6 22:24 05:25-06:03/38	05:22 06:09-06:36/27 21:35	06:27 07:19-07:43/24 20:15 07:07-07:10/3	07:31 18:51	07:41 08:53-09:47/54 16:31	08:44 09:33-10:38/65 15:41
5	04:30 21:02-21:30/28 06:15-06:24/9 22:24 05:26-06:03/37	05:24 06:09-06:34/25 21:33	06:30 07:18-07:46/28 20:12	07:33 18:48	07:43 08:53-09:48/55 16:29	08:46 09:34-10:38/64 15:40
6	04:31 21:02-21:30/28 06:14-06:26/12 22:23 05:26-06:03/37	05:26 06:10-06:33/23 21:30	06:32 07:17-07:47/30 20:10	07:35 18:46	07:45 08:53-09:47/54 16:27	08:48 09:35-10:38/63 15:39
7	04:32 21:02-21:30/28 06:13-06:27/14 22:22 05:27-06:03/36	05:28 06:11-06:32/21 21:28	06:34 07:17-07:48/31 20:07	07:38 18:43	07:48 08:54-10:03/69 16:25	08:49 09:35-10:38/63 15:38
8	04:34 21:03-21:29/26 06:12-06:28/16 22:21 05:28-06:03/35	05:30 06:13-06:30/17 21:26	06:36 07:17-07:48/31 20:04	07:40 18:40	07:50 08:55-10:05/70 16:22	08:51 09:36-10:39/63 15:38
9	04:35 21:03-21:29/26 06:11-06:28/17 22:20 05:29-06:04/35	05:32 06:15-06:28/13 21:23	06:38 07:17-07:48/31 20:01	07:42 18:37	07:52 08:56-10:07/71 16:20	08:52 09:37-10:40/63 15:37
10	04:36 21:05-21:30/25 06:11-06:30/19 22:19 05:32-06:04/32	05:34 06:18-06:25/7 21:21	06:40 07:17-07:48/31 19:59	07:44 18:35	07:54 08:57-10:08/71 16:18	08:54 09:38-10:40/62 15:37
11	04:38 21:05-21:29/24 06:10-06:31/21 22:18 05:33-06:04/31	05:36 07:02-07:16/14 21:18	06:42 07:17-07:48/31 19:56	07:46 18:32	07:57 08:57-10:09/72 16:16	08:55 09:56-10:41/45 15:36
12	04:39 21:05-21:28/23 06:10-06:31/21 22:16 05:34-06:03/29	05:38 07:00-07:18/18 21:16	06:44 07:17-07:48/31 19:53	07:48 18:29	07:59 08:59-10:10/71 16:14	08:56 09:57-10:41/44 15:36
13	04:41 21:06-21:27/21 06:10-06:33/23 22:15 05:35-06:04/29	05:41 06:58-07:19/21 21:13	06:46 07:18-07:47/29 19:50	07:51 18:27	08:01 09:00-10:11/71 16:12	08:57 09:57-10:41/44 15:36
14	04:42 21:07-21:28/21 06:09-06:33/24 22:14 05:35-06:03/28	05:43 06:57-07:20/23 21:11	06:49 07:20-07:46/26 19:47	07:53 18:24	08:03 09:02-10:12/70 16:10	08:59 09:59-10:42/43 15:35
15	04:44 21:08-21:26/18 06:08-06:33/25 22:12 05:35-06:03/28	05:45 06:56-07:21/25 21:08	06:51 07:24-07:45/21 19:45	07:55 18:21	08:06 09:04-10:13/69 16:08	09:00 10:00-10:42/42 15:35
16	04:45 21:09-21:26/17 06:08-06:35/27 22:11 05:36-06:03/27	05:47 06:55-07:22/27 21:06	06:53 07:26-07:44/18 19:42	07:57 18:19	08:08 09:04-10:13/69 16:06	09:01 10:01-10:43/42 15:35
17	04:47 21:10-21:24/14 06:08-06:35/27 22:09 05:36-06:02/26	05:49 06:54-07:22/28 21:03	06:55 07:27-07:43/16 19:39	08:00 18:16	08:10 09:04-10:14/70 16:04	09:02 10:02-10:43/41 15:35
18	04:49 21:13-21:23/10 06:08-06:36/28 22:08 05:37-06:02/25	05:51 06:53-07:24/31 21:01	06:57 07:29-07:40/11 19:36	08:02 18:13	08:12 09:04-10:14/70 16:02	09:02 10:03-10:44/41 15:35
19	04:50 21:15-21:19/4 06:07-06:36/29 22:06 05:38-06:01/23	05:53 06:53-07:25/32 20:58	06:59 19:33	08:04 10:07-10:17/10 18:11	08:15 09:05-10:15/70 16:01	09:03 10:03-10:43/40 15:36
20	04:52 05:39-06:01/22 22:05 06:07-06:36/29	05:55 06:52-07:25/33 20:56	07:01 19:30	08:06 10:04-10:22/18 18:08	08:17 09:05-10:14/69 15:59	09:04 10:04-10:44/40 15:36
21	04:54 05:40-06:00/20 22:03 06:07-06:37/30	05:58 06:52-07:26/34 20:53	07:03 19:28	08:09 10:01-10:24/23 18:05	08:19 09:06-10:15/69 15:57	09:05 10:05-10:45/40 15:36
22	04:56 05:41-05:59/18 22:01 06:06-06:37/31	06:00 06:52-07:26/34 20:50	07:05 19:25	08:11 09:59-10:26/27 18:03	08:21 09:06-10:26/80 15:56	09:05 10:05-10:45/40 15:37
23	04:58 05:43-05:58/15 21:59 06:07-06:38/31	06:02 06:52-07:26/34 20:48	07:08 19:22	08:13 09:58-10:27/29 18:00	08:23 09:07-10:28/81 15:54	09:06 10:06-10:46/40 15:37
24	05:00 05:45-05:56/11 21:58 06:07-06:38/31	06:04 06:52-07:26/34 20:45	07:10 19:19	08:15 09:57-10:30/33 17:58	08:25 09:08-10:29/81 15:53	09:06 10:06-10:46/40 15:38
25	05:01 05:47-05:53/6 21:56 06:06-06:38/32	06:06 06:52-07:26/34 20:42	07:12 19:16	07:18 08:55-09:36/41 16:55	08:27 09:08-10:30/82 15:51	09:06 10:06-10:47/41 15:39
26	05:03 06:06-06:38/32 21:54	06:08 06:52-07:26/34 20:40	07:14 19:14	07:20 08:55-09:39/44 16:53	08:29 09:11-10:32/81 15:50	09:07 10:06-10:47/41 15:39
27	05:05 06:06-06:38/32 21:52	06:10 06:53-07:25/32 20:37	07:16 19:11	07:22 08:54-09:41/47 16:50	08:31 09:13-10:33/80 15:48	09:07 10:06-10:48/42 15:40
28	05:07 06:07-06:38/31 21:50	06:13 06:53-07:25/32 20:34	07:18 19:08	07:24 08:54-09:43/49 16:48	08:33 09:15-10:33/78 15:47	09:07 10:06-10:48/42 15:41
29	05:09 06:06-06:38/32 21:48	06:15 06:54-07:24/30 20:32	07:20 19:05	07:27 08:53-09:43/50 16:45	08:35 09:17-10:34/77 15:46	09:07 10:06-10:49/43 15:42
30	05:11 06:06-06:38/32 21:46	06:17 07:31-07:33/2 20:29	07:22 19:02	07:29 08:53-09:45/52 16:43	08:37 09:24-10:35/71 15:45	09:07 10:05-10:50/45 15:43
31	05:13 06:07-06:37/30 21:44	06:19 07:26-07:37/11 20:26	07:24 19:01	07:31 08:52-09:45/53 16:41	08:39 09:25-10:36/71 15:44	09:07 10:06-10:49/43 15:44
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	1827	842	499	476	2098	1715

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 13:48-14:15/27 11:27-12:02/35 13:18-13:39/21 15:46 10:02-11:24/82 12:06-12:42/36 09:06 13:49-14:16/27 11:27-12:02/35 13:19-13:39/20 15:47 10:02-11:24/82 12:06-12:42/36 09:06 13:50-14:16/26 11:27-12:02/35 13:19-13:39/20 15:48 10:02-11:23/81 12:07-12:42/35 09:05 13:50-14:16/26 11:27-12:02/35 13:20-13:38/18 15:50 10:03-11:24/81 12:07-12:42/35 09:05 13:51-14:17/26 11:29-12:03/34 13:22-13:39/17 15:51 10:03-11:24/81 12:08-12:43/35 09:04 13:52-14:18/26 11:29-12:04/35 13:23-13:39/16 15:53 10:04-11:24/80 12:09-12:43/34 09:04 13:53-14:18/25 11:30-12:04/34 12:10-12:44/34 15:54 10:04-11:24/80 13:24-13:39/15 09:03 13:52-14:17/25 11:30-12:04/34 12:09-12:43/34 15:56 10:04-11:23/79 13:25-13:38/13 09:02 13:53-14:18/25 11:30-12:04/34 12:10-12:43/33 15:58 10:04-11:22/78 13:26-13:36/10 09:01 13:54-14:18/24 11:31-12:04/33 12:11-12:43/32 15:59 10:04-11:21/77 13:29-13:35/6 09:00 13:55-14:18/23 11:32-12:04/32 16:01 10:05-11:18/73 12:12-12:44/32 08:59 13:56-14:17/21 11:32-12:04/32 16:03 10:05-11:16/71 12:13-12:43/30 08:58 13:57-14:18/21 11:34-12:04/30 16:05 10:05-11:16/71 12:14-12:43/29 08:57 13:58-14:17/19 11:34-12:04/30 16:07 10:05-11:16/71 12:14-12:43/29 08:56 14:00-14:17/17 11:35-12:04/29 16:09 10:06-11:17/71 12:16-12:43/27 08:54 14:01-14:16/15 11:36-12:03/27 16:11 10:07-11:17/70 12:17-12:42/25 08:53 14:02-14:14/12 11:37-12:03/26 16:13 10:08-11:18/70 12:18-12:41/23 08:52 14:06-14:13/7 11:39-12:03/24 16:15 10:08-11:17/69 12:20-12:41/21 08:50 10:09-10:44/35 11:40-12:02/22 16:17 10:46-11:17/31 12:22-12:40/18 08:49 10:09-10:43/34 11:42-12:00/18 16:19 10:46-11:17/31 12:24-12:38/14 08:47 10:10-10:42/32 11:44-11:59/15 16:21 10:47-11:16/29 12:27-12:35/8 08:46 10:11-10:31/20 11:47-11:56/9 16:23 10:48-11:16/28 10:32-10:39/7 08:44 10:12-10:31/19 16:26 10:49-11:15/26 08:42 10:14-10:30/16 16:28 10:50-11:15/25 08:41 10:15-10:29/14 16:30 10:52-11:14/22 08:39 10:18-10:27/9 16:32 10:54-11:13/19 08:37 10:56-11:11/15 16:35 08:35 11:00-11:08/8 16:37 08:33 16:39 08:31 16:41 08:29 16:44 Potential sun hours 227 Sum of minutes with flicker 3573	08:27 16:46 08:25 16:48 08:23 16:51 08:21 16:53 08:19 16:56 08:17 16:58 08:14 17:00 08:12 17:03 08:10 17:05 08:07 08:41-08:50/9 17:07 08:05 08:37-09:00/23 17:10 08:03 08:36-09:03/27 17:12 08:00 08:34-09:05/31 17:15 07:58 08:34-09:06/32 17:17 07:56 08:32-09:08/36 17:19 07:53 08:32-09:09/37 17:22 07:51 08:32-09:10/38 17:24 08:23-08:26/3 07:48 08:31-09:11/40 17:26 08:18-08:30/12 07:46 08:16-09:11/55 17:29 07:43 08:15-09:12/57 17:31 07:41 08:14-09:12/58 17:33 07:38 08:13-09:11/58 17:36 07:35 08:12-09:12/60 17:38 07:33 08:10-09:11/61 17:40 07:30 08:09-09:11/62 17:43 07:28 08:07-09:10/63 17:45 07:25 08:07-09:10/63 17:47 07:22 08:07-09:09/62 17:50 18:52 07:02 07:55-08:42/47 19:55 06:59 07:55-08:42/47 19:57 06:57 07:54-08:41/47 19:59 262	07:20 08:06-09:08/62 17:52 07:17 08:05-09:08/63 17:54 07:14 08:05-09:07/62 17:57 07:50-07:52/2 07:12 07:45-09:07/82 17:59 07:09 07:42-09:06/84 18:01 07:06 07:40-09:05/85 18:03 07:03 07:39-09:03/84 18:06 07:01 07:37-09:02/85 18:08 06:58 07:37-09:01/84 18:10 06:55 07:36-08:58/82 18:13 06:52 07:36-08:57/81 18:15 06:50 07:35-08:56/81 18:17 06:47 07:35-08:55/80 18:19 06:44 07:36-08:55/79 18:21 06:41 07:23-08:54/91 18:24 06:39 07:19-08:53/94 18:26 06:36 07:17-08:51/94 18:28 06:33 07:15-08:50/95 18:30 06:30 07:13-08:12/59 18:33 08:14-08:48/34 06:27 07:12-08:11/59 18:35 08:16-08:46/30 06:25 07:10-08:10/60 18:37 08:17-08:44/27 06:22 07:06-08:08/62 18:39 08:19-08:41/22 06:19 07:03-08:06/63 18:41 08:22-08:36/14 06:16 07:01-08:04/63 18:44 06:13 07:46-08:01/15 18:46 07:00-07:45/45 06:11 07:50-07:56/6 18:48 06:59-07:45/46 06:08 06:57-07:44/47 18:50 06:05 06:56-07:43/47 18:52 07:02 07:55-08:42/47 19:55 06:59 07:55-08:42/47 19:57 06:57 07:54-08:41/47 19:59 365	06:54 07:51-08:39/48 20:01 06:51 07:48-08:38/50 20:03 06:48 07:46-08:35/49 20:06 06:46 07:45-08:34/49 20:08 06:43 07:43-08:32/49 20:10 06:40 07:41-08:31/50 20:12 06:37 07:40-08:31/51 20:14 06:34 07:39-08:29/50 20:17 06:32 07:37-08:28/51 20:19 06:29 07:36-08:28/52 20:21 06:26 07:36-08:29/53 20:23 06:24 07:35-08:28/53 20:25 06:21 07:34-08:28/54 20:28 06:18 07:34-08:29/55 20:30 06:15 07:33-08:28/55 20:32 06:13 07:33-08:29/56 20:34 06:10 07:33-08:28/55 20:37 06:07 07:32-08:27/55 20:39 06:05 07:32-08:27/55 20:41 06:02 07:32-08:26/54 20:43 06:57-07:12/15 05:59 07:32-08:26/54 20:45 06:54-07:15/21 05:57 07:32-08:25/53 05:54 07:33-08:25/52 20:50 06:49-07:19/30 05:52 07:32-08:23/51 20:52 06:46-07:20/34 05:49 07:33-08:23/50 20:54 06:45-07:22/37 05:46 07:34-08:22/48 20:56 06:44-07:23/39 05:44 07:34-08:21/47 20:59 06:42-07:23/41 05:41 07:35-08:20/45 21:01 06:40-07:24/44 05:39 07:36-08:19/43 21:03 06:38-07:25/47 05:36 07:36-08:17/41 21:05 06:36-07:25/49 515	05:34 06:31-07:26/55 21:08 07:38-08:16/38 05:31 06:27-07:27/60 21:10 07:39-08:14/35 05:29 06:24-07:26/62 21:12 07:39-08:12/33 05:27 06:22-07:26/64 21:14 07:41-08:10/29 05:24 06:21-07:27/66 21:16 07:43-08:08/25 05:22 06:20-07:27/67 21:18 07:46-08:05/19 05:20 06:18-07:27/69 21:21 07:50-08:01/11 05:17 06:17-07:27/70 05:15 06:17-07:27/70 05:13 06:16-07:27/71 21:27 05:44-05:46/2 05:11 06:15-07:27/72 21:29 05:42-05:49/7 05:08 06:14-07:27/73 21:31 05:40-05:51/11 05:06 06:14-07:26/72 21:33 05:38-05:52/14 05:04 06:13-07:26/73 21:36 05:36-05:52/16 05:02 06:13-07:25/72 21:38 05:35-05:53/18 05:00 06:12-07:25/73 21:40 05:34-05:53/19 04:58 06:12-07:24/72 21:42 05:34-05:54/20 04:56 06:12-07:25/73 21:44 05:34-05:54/20 04:54 06:12-07:24/72 21:46 05:33-05:54/21 04:52 06:11-07:23/72 21:48 05:34-05:55/21 04:50 06:12-07:23/71 21:50 05:34-05:55/21 04:48 06:11-07:22/71 21:52 05:33-05:54/21 04:47 06:12-07:22/70 21:53 05:34-05:54/20 04:45 06:11-07:21/70 21:55 05:34-05:54/20 04:43 06:12-07:21/69 21:57 05:35-05:54/19 04:42 06:12-07:21/69 21:59 05:35-05:54/19 04:40 06:12-07:19/67 22:01 05:35-05:53/18 04:39 06:12-07:19/67 22:02 05:36-05:53/17 04:37 06:12-07:19/67 22:04 05:37-05:53/16 04:36 06:13-07:19/66 22:06 05:38-05:53/15 04:34 06:13-07:19/66 22:07 05:38-05:52/14 539	04:33 06:13-07:19/66 22:09 05:39-05:51/12 04:32 06:14-07:19/65 22:10 05:40-05:51/11 04:31 06:14-07:19/65 22:12 05:42-05:50/8 04:30 06:14-07:18/64 22:13 05:43-05:48/5 04:28 06:14-07:18/64 22:15 04:27 06:14-07:18/64 22:16 04:27 06:15-07:18/63 22:17 05:05-05-08/3 04:26 06:15-07:18/63 22:18 05:04-05-09/5 04:25 06:15-07:17/62 22:19 05:03-05-10/7 04:24 06:16-07:18/62 22:20 05:03-05-11/8 04:24 06:16-07:17/61 22:21 05:02-05-12/10 04:23 06:16-07:17/61 22:22 05:02-05-13/11 04:22 06:17-07:18/61 22:23 05:02-05-14/12 04:22 06:17-07:17/60 22:24 05:01-05-13/12 04:22 06:17-07:17/60 22:25 05:01-05-14/13 04:21 06:18-07:17/59 22:25 05:01-05-15/14 04:21 06:18-07:18/60 22:26 05:01-05-15/14 04:21 06:18-07:18/60 22:27 05:01-05-16/15 04:21 06:19-07:18/59 22:27 05:01-05-16/15 04:21 06:19-07:18/59 22:27 05:01-05-16/15 04:21 06:19-07:18/59 22:28 05:02-05-17/15 04:22 06:19-07:19/60 22:28 05:02-05-17/15 04:22 06:20-07:20/60 22:28 05:03-05-17/14 04:23 06:20-07:20/60 22:28 05:03-05-17/14 04:23 06:20-07:20/60 22:28 05:04-05-17/13 04:24 06:20-07:20/60 22:27 05:04-05-17/13 04:25 06:20-07:21/61 22:27 05:05-05-17/12 04:25 06:21-07:22/61 22:27 05:06-05-17/11

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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 06:20-07:21/61 22:26 05:06-05:16/10	05:15 06:25-07:37/72 21:41 05:51-06:00/9	06:21 07:35-08:28/53 20:24	07:25 08:14-09:35/81 19:00	07:34 08:12-08:18/6 16:38	08:39 13:38-14:00/22 11:14-11:47/33 15:43 09:47-10:58/71 11:55-12:26/31
2	04:27 06:20-07:22/62 22:26 05:07-05:16/9	05:17 06:26-07:37/71 21:39 05:53-05:59/6	06:23 07:35-08:27/52 20:21	07:27 08:14-09:35/81 18:57	07:36 08:14-09:36/82 07:38	08:41 13:38-14:01/23 11:14-11:47/33 11:54-12:27/33 15:42 09:47-11:04/77 13:13-13:18/5
3	04:28 06:20-07:22/62 22:25 05:08-05:16/8	05:19 06:26-07:37/71 21:37	06:25 07:35-08:26/51 20:18	07:29 08:14-09:36/82 18:54	07:38 08:14-09:37/83 07:41	08:43 13:37-14:02/25 11:14-11:48/34 11:54-12:27/33 15:41 09:48-11:06/78 13:11-13:20/9
4	04:29 06:21-07:23/62 22:24 05:09-05:15/6	05:21 06:26-07:36/70 21:35	06:27 07:36-08:27/51 20:15	07:31 08:14-09:37/83 18:51	07:41 08:14-09:38/84 07:43	08:44 13:38-14:02/24 11:15-11:48/33 11:55-12:28/33 15:41 09:48-11:07/79 13:10-13:22/12
5	04:30 06:21-07:23/62 22:24 05:10-05:14/4	05:24 06:27-07:36/69 21:33	06:30 07:36-08:27/51 20:12	07:33 08:14-09:38/84 18:48	07:43 08:14-09:39/85 07:45	08:46 13:38-14:03/25 11:15-11:49/34 11:55-12:29/34 15:40 09:49-11:09/80 13:09-13:24/15
6	04:31 06:21-07:24/63 22:23	05:26 06:28-07:36/68 21:30 07:58-08:12/14	06:32 07:37-08:27/50 20:10	07:35 08:14-09:39/85 18:46	07:45 08:14-09:40/86 07:48	08:48 13:37-14:03/26 11:15-11:50/35 11:55-12:29/34 15:39 09:50-11:10/80 13:09-13:25/16
7	04:32 06:21-07:24/63 22:22	05:28 06:29-07:36/67 21:28 07:54-08:15/21	06:34 07:38-08:27/49 20:07	07:38 08:16-09:40/84 18:43	07:48 08:16-09:41/85 07:50	08:49 13:38-14:04/26 11:15-11:50/35 13:08-13:25/17 15:38 09:49-11:10/81 11:55-12:29/34
8	04:34 06:21-07:25/64 22:21 05:51-05:53/2	05:30 06:31-07:36/65 21:26 07:52-08:18/26	06:36 07:39-08:28/49 20:04	07:40 08:17-09:41/84 18:40	07:50 08:17-09:42/85 07:52	08:51 13:38-14:04/26 11:15-11:50/35 13:08-13:26/18 15:38 09:50-11:11/81 11:55-12:30/35
9	04:35 06:20-07:25/65 22:20 05:49-05:55/6	05:32 06:32-07:36/64 21:23 07:50-08:20/30	06:38 07:40-08:30/50 20:01	07:42 08:18-09:41/83 18:37	07:52 08:18-09:42/86 07:54	08:52 13:39-14:05/26 11:16-11:51/35 13:08-13:28/20 15:37 09:51-11:13/82 11:56-12:31/35
10	04:36 06:21-07:26/65 22:19 05:48-05:58/10	05:34 06:34-07:35/61 21:21 07:48-08:22/34	06:40 07:41-08:31/50 19:59	07:44 08:21-08:37/16 18:35	07:54 08:21-08:38/17 07:57	08:54 13:39-14:06/27 11:17-11:52/35 13:08-13:28/20 15:36 09:51-11:13/82 11:56-12:31/35
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12	04:39 06:21-07:27/66 22:16 05:46-05:59/13	05:38 06:41-07:34/53 21:16 07:46-08:24/38	06:44 07:45-08:32/47 19:53	07:49 08:39-09:42/63 18:29	07:59 08:39-09:43/64 08:01	08:56 13:39-14:07/27 11:17-11:52/35 13:08-13:30/22 15:36 09:53-11:14/81 11:56-12:32/36
13	04:41 06:20-07:27/67 22:15 05:46-06:01/15	05:40 07:44-08:26/42 21:13 06:45-07:34/49	06:46 07:45-08:32/47 19:50	07:51 08:39-09:41/62 18:27	08:01 10:31-10:40/9 08:04	08:57 13:40-14:07/27 11:17-11:52/35 13:08-13:30/22 15:35 09:53-11:15/82 11:56-12:32/36
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18	04:49 06:21-07:30/69 22:08 05:44-06:04/20	05:51 07:40-08:29/49 21:01 06:52-07:28/36	06:57 08:34-08:48/14 19:36	08:02 08:42-09:43/61 18:13	08:12 09:47-10:04/17 08:14	09:02 13:42-14:10/28 11:20-11:56/36 13:10-13:34/24 15:35 09:57-11:18/81 11:59-12:36/37
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23	04:58 06:22-07:34/72 21:59 05:44-06:05/21	06:02 07:37-08:31/54 20:48 07:02-07:16/14	07:08 07:56-08:55/59 19:22	08:13 08:47-09:41/54 18:00	08:23 09:46-10:21/35 11:17-11:39/22 15:54	09:06 13:45-14:12/27 11:22-11:58/36 13:12-13:36/24 15:37 09:59-11:21/82 12:02-12:38/36
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Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	2533	2363	1921	1876	1517	6126

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 12:15-12:42/27 10:11-10:59/48 11:06-11:32/26 15:46 09:50-09:55/5 11:40-12:05/25	08:27 15:21-15:28/7 09:47-10:17/30 16:46 09:05-09:41/36 10:20-10:44/24	07:20 07:49-08:07/18 17:52 20:01	06:54 07:29-08:01/32 20:01	05:34 06:23-07:03/40 21:07	04:33 22:09
2	09:06 12:16-12:43/27 10:10-10:59/49 11:07-11:32/25 15:47 09:49-09:56/7 11:40-12:05/25	08:25 09:04-09:41/37 10:20-10:43/23 16:48 09:47-10:16/29	07:17 07:46-08:07/21 17:54 20:03	06:51 07:28-08:00/32 20:03	05:31 06:24-07:02/38 21:10	04:32 22:10
3	09:06 12:16-12:43/27 10:10-10:59/49 11:08-11:31/23 15:48 09:48-09:57/9 11:41-12:04/23	08:23 09:04-09:42/38 10:23-10:41/18 16:51 09:48-10:16/28	07:14 07:44-08:07/23 17:57 20:06	06:48 07:22-07:59/37 20:06	05:29 06:23-06:59/36 21:12	04:31 22:12
4	09:05 12:17-12:43/26 10:10-10:59/49 11:09-11:31/22 15:50 09:48-09:59/11 11:41-12:04/23	08:21 09:05-09:43/38 10:26-10:39/13 16:53 09:50-10:16/26	07:12 07:43-08:08/25 17:59 20:08	06:46 07:20-07:58/38 20:08	05:27 06:24-06:59/35 21:14	04:29 22:13
5	09:05 12:18-12:44/26 10:11-11:01/50 11:11-11:31/20 15:51 09:47-10:00/13 11:43-12:05/22	08:19 09:04-09:42/38 10:30-10:34/4 16:56 09:50-10:14/24	07:09 07:42-08:07/25 18:01 20:10	06:43 07:17-07:56/39 20:10	05:24 06:24-06:58/34 21:16	04:28 22:14
6	09:04 12:19-12:44/25 10:11-11:01/50 11:12-11:30/18 15:53 09:46-10:01/15 11:44-12:05/21	08:17 09:05-09:43/38 16:58 09:52-10:13/21	07:06 07:34-08:06/32 18:03 20:12	06:40 07:15-07:53/38 20:12	05:22 06:25-06:57/32 21:18	04:27 22:16
7	09:04 12:20-12:44/24 10:11-11:01/50 11:23-11:28/5 15:54 09:45-10:02/17 11:45-12:05/20 11:15-11:19/4	08:14 09:05-09:42/37 17:00 09:53-10:11/18	07:03 07:30-08:05/35 18:06 20:14	06:37 07:15-07:51/36 20:14	05:19 06:25-06:55/30 21:21	04:27 22:17
8	09:03 12:20-12:43/23 10:10-11:02/52 15:56 09:45-10:03/18 11:46-12:04/18	08:12 09:06-09:42/36 17:03 09:56-10:10/14	07:01 07:27-08:04/37 18:08 20:17	06:34 07:13-07:50/37 20:17	05:17 06:26-06:53/27 21:23	04:26 22:18
9	09:02 12:21-12:43/22 10:10-11:01/51 15:58 09:44-10:03/19 11:47-12:03/16	08:10 09:07-09:41/34 17:05 09:59-10:05/6	06:58 07:26-08:05/39 18:10 20:19	06:32 07:12-07:48/36 20:19	05:15 06:27-06:49/22 21:25	04:25 22:19
10	09:01 15:13-15:15/2 09:44-10:05/21 11:49-12:03/14 15:59 12:23-12:42/17 10:11-11:02/52	08:07 09:08-09:41/33 17:07 20:21	06:55 07:25-08:04/39 18:12 20:21	06:29 07:11-07:46/35 20:21	05:13 06:28-06:46/18 21:27	04:24 22:20
11	09:00 15:12-15:18/6 09:44-10:06/22 11:51-12:02/11 16:01 12:25-12:42/17 10:11-11:02/51	08:05 09:10-09:40/30 17:10 20:23	06:52 07:24-08:03/39 18:15 20:23	06:26 07:11-07:45/34 20:23	05:10 06:30-06:44/14 21:29	04:24 22:21
12	08:59 15:11-15:19/8 09:44-10:06/22 11:53-11:59/6 16:03 12:26-12:41/15 10:10-11:01/51	08:03 09:14-09:40/26 17:12 20:25	06:50 07:23-08:02/39 18:17 20:25	06:23 07:11-07:41/30 20:25	05:08 06:32-06:42/10 21:31	04:23 22:22
13	08:58 15:11-15:22/11 09:44-10:07/23 16:05 12:28-12:40/12 10:11-11:02/51	08:00 09:19-09:38/19 17:15 20:28	06:47 07:20-08:01/41 18:19 07:13-07:17/4	06:21 07:10-07:41/31 20:28	05:06 21:33 21:33	04:22 22:23
14	08:57 15:10-15:24/14 09:44-10:07/23 16:07 12:31-12:37/6 10:10-11:01/51	07:58 09:20-09:36/16 17:17 20:30	06:44 07:11-08:00/49 18:21 20:30	06:18 07:11-07:41/30 20:30	05:04 21:36 21:36	04:22 22:24
15	08:56 15:11-15:27/16 10:11-11:02/51 16:09 09:44-10:08/24	07:56 09:24-09:34/10 17:19 20:32	06:41 07:08-07:57/49 18:24 20:32	06:15 07:10-07:40/30 20:32	05:02 21:38 21:38	04:22 22:25
16	08:54 15:10-15:28/18 10:11-11:01/50 16:11 09:44-10:09/25	07:53 17:22 17:22 20:34	06:39 07:05-07:54/49 18:26 20:34	06:13 07:11-07:40/29 20:34	05:00 21:40 21:40	04:21 22:25
17	08:53 15:10-15:30/20 16:13 09:45-11:02/77	07:51 17:24 17:24 20:37	06:36 07:04-07:53/49 18:28 20:37	06:10 07:11-07:38/27 20:37	04:58 21:42 21:42	04:21 22:26
18	08:52 15:10-15:31/21 16:15 09:45-11:01/76	07:48 17:26 17:26 20:39	06:33 07:02-07:52/50 18:30 20:39	06:07 07:11-07:37/26 20:39	04:56 21:44 21:44	04:21 22:26
19	08:50 15:10-15:32/22 16:17 09:45-11:00/75	07:46 17:29 17:29 20:41	06:30 07:01-07:50/49 18:33 20:41	06:05 07:12-07:36/24 20:41	04:54 21:46 21:46	04:21 22:27
20	08:49 15:10-15:32/22 16:19 09:45-10:58/73	07:43 17:31 17:31 20:43	06:27 07:01-07:49/48 18:35 20:43	06:02 06:35-07:07/32 20:43	04:52 21:48 21:48	04:21 22:27
21	08:47 15:10-15:32/22 10:47-10:56/9 16:21 09:45-10:46/61 09:23-09:27/4	07:41 17:33 17:33 20:45	06:25 07:00-07:46/46 18:37 20:45	05:59 06:33-07:08/35 20:45	04:50 21:50 21:50	04:21 22:27
22	08:46 15:10-15:33/23 09:21-09:29/8 16:23 09:44-10:47/63	07:38 17:36 17:36 20:48	06:22 06:59-07:40/41 18:39 20:48	05:57 06:30-07:08/38 20:48	04:48 21:51 21:51	04:21 22:28
23	08:44 15:11-15:33/22 09:19-09:31/12 16:25 09:44-10:47/63	07:35 17:38 17:38 20:48	06:19 06:59-07:39/40 18:41 20:48	05:54 06:29-07:08/39 20:48	04:47 21:53 21:53	04:21 22:28
24	08:42 15:11-15:33/22 09:17-09:32/15 16:28 09:44-10:47/63	07:33 17:40 17:40 20:51	06:16 06:47-06:58/11 18:44 20:51	05:51 07:22-07:25/3 20:51	04:45 21:55 21:55	04:22 22:28
25	08:41 15:12-15:33/21 09:16-09:34/18 16:30 09:45-10:47/62	07:30 17:43 17:43 20:54	06:13 06:43-07:37/54 18:46 20:54	05:49 06:26-07:07/41 20:54	04:43 21:57 21:57	04:22 22:28
26	08:39 15:12-15:33/21 09:13-09:35/22 16:32 09:45-10:47/62	07:28 07:55-08:03/8 17:45 20:56	06:11 06:41-07:36/55 18:48 20:56	05:46 06:26-07:07/41 20:56	04:42 21:59 21:59	04:23 22:28
27	08:37 15:13-15:33/20 09:11-09:36/25 16:34 09:45-10:47/62	07:25 07:53-08:06/13 17:47 20:59	06:08 06:38-07:34/56 18:50 20:59	05:44 06:24-07:06/42 20:59	04:40 22:01 22:01	04:23 22:28
28	08:35 15:14-15:33/19 09:09-09:37/28 16:37 09:45-10:47/62	07:22 07:50-08:07/17 17:50 21:01	06:05 06:34-07:32/58 18:52 21:01	05:41 06:24-07:06/42 21:01	04:39 22:02 22:02	04:24 22:27
29	08:33 15:15-15:32/17 09:07-09:39/32 16:39 09:46-10:46/60	07:19 21:03 21:03 21:03	07:02 07:32-08:15/43 19:55 21:03	05:39 06:24-07:06/42 21:03	04:37 22:04 22:04	04:24 22:27
30	08:31 15:16-15:31/15 09:05-09:39/34 16:41 09:46-10:46/60	07:17 21:05 21:05 21:05	06:59 08:05-08:13/8 19:57 21:05	05:36 06:23-07:04/41 21:05	04:36 22:06 22:06	04:25 22:27
31	08:29 15:18-15:30/12 09:46-10:17/31 16:44 09:05-09:40/35 10:18-10:45/27	07:15 21:07 21:07 21:07	06:57 07:30-08:02/32 19:59 21:07	05:34 06:24-07:06/42 21:07	04:34 22:07 22:07	04:24 22:27
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	3335	789	1302	1226	336	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

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

0	1	Sum
4 076	4 076	8 152

July		August		September		October		November		December	
1	04:26 22:26	05:15 21:41	06:41-06:53/12	20:23	07:10-07:44/34	07:25 19:00	08:01-08:41/40	07:34 16:38	08:38-09:11/33	08:39 15:43	14:54-15:00/6 12:07-12:24/17
2	04:27 22:26	05:17 21:39	06:40-06:55/15	20:23	07:10-07:45/35	07:27 18:57	08:02-08:41/39	07:36 16:36	08:36-09:11/35	08:41 15:42	14:56-14:58/2 12:06-12:26/20
3	04:28 22:25	05:19 21:37	06:38-06:57/19	20:21	07:10-07:46/36	07:29 18:54	08:03-08:42/39	07:38 16:33	08:36-09:12/36	08:43 15:41	12:06-12:27/21 09:26-09:48/22
4	04:29 22:24	05:21 21:35	06:36-07:00/24	20:18	07:10-07:47/37	07:31 18:51	08:03-08:42/39	07:41 16:31	08:35-09:12/37	08:44 15:40	12:05-12:28/23 09:25-09:55-10:46/51
5	04:30 22:24	05:24 21:33	06:35-07:03/28	20:15	07:11-07:47/36	07:33 18:48	08:04-08:41/37	07:43 16:29	08:35-09:12/37	08:46 15:40	12:05-12:29/24 09:56-10:46/50
6	04:31 22:23	05:26 21:30	06:34-07:05/31	20:12	07:12-07:49/37	07:35 18:46	08:05-08:41/36	07:45 16:27	08:35-09:12/37	08:48 15:39	12:04-12:29/25 09:57-10:47/50
7	04:32 22:22	05:28 21:28	06:34-07:06/32	20:10	07:12-07:51/39	07:38 18:43	08:08-08:42/34	07:48 16:24	08:34-09:12/38	08:49 15:38	12:05-12:30/25 09:57-10:47/50
8	04:33 22:21	05:30 21:26	06:33-07:07/34	20:07	07:14-07:52/38	07:40 18:40	08:15-08:42/27	07:50 16:22	08:35-09:13/38	08:51 15:37	12:05-12:31/26 09:58-10:47/49
9	04:35 22:20	05:32 21:23	06:33-07:08/35	20:04	07:16-07:53/37	07:42 18:37	08:17-08:42/25	07:52 16:20	08:35-09:12/37	08:52 15:37	12:05-12:32/27 09:59-10:48/49
10	04:36 22:19	05:34 21:21	06:32-07:09/37	20:01	07:21-07:53/32	07:44 18:35	08:18-08:42/24	07:54 16:18	14:52-14:59/7	08:54 15:36	12:05-12:32/27 09:59-10:48/49
11	04:38 22:18	05:36 21:18	06:32-07:11/39	19:59	07:21-07:54/33	07:46 18:32	08:20-08:42/22	07:57 16:16	14:49-15:01/12	08:55 15:36	12:06-12:33/27
12	04:39 22:16	05:38 21:16	06:32-07:12/40	19:56	07:21-07:54/33	07:48 18:29	08:21-08:41/20	07:59 16:14	14:48-15:03/15	08:56 15:36	12:05-12:34/29
13	04:40 22:15	05:40 21:13	06:32-07:13/41	19:53	07:22-08:02/6	07:51 18:27	08:22-08:40/18	08:01 16:12	14:46-15:03/17	08:57 15:35	12:05-12:34/29
14	04:42 22:14	05:43 21:11	06:32-07:13/41	19:50	07:22-08:05/43	07:53 18:24	08:24-08:39/15	08:04 16:10	14:46-15:05/19	08:59 15:35	12:06-12:35/29
15	04:44 22:12	05:45 21:08	06:32-07:14/42	19:47	07:24-08:21/57	07:55 18:21	08:26-08:37/11	08:06 16:08	14:45-15:05/20	09:00 15:35	12:07-12:36/29
16	04:45 22:11	05:47 21:06	06:32-07:14/42	19:44	07:26-08:23/57	07:57 18:19	08:28-08:34/6	08:08 16:06	14:45-15:06/21	09:01 15:35	12:07-12:36/29
17	04:47 22:09	05:49 21:03	06:32-07:14/42	19:42	07:30-08:25/55	08:00 18:16		08:10 16:04	14:46-15:07/21	09:02 15:35	12:07-12:37/30
18	04:49 22:08	05:51 21:01	06:33-07:14/41	19:39	07:30-08:25/55	08:02 18:13		08:12 16:02	14:45-15:07/22	09:02 15:35	12:08-12:37/29
19	04:50 22:06	05:53 20:58	06:34-07:14/40	19:36	07:31-08:25/54	08:04 18:11		08:15 16:01	14:46-15:08/22	09:03 15:35	12:08-12:37/29
20	04:52 22:05	05:55 20:56	06:34-07:14/40	19:33	07:33-08:26/53	08:06 18:08		08:17 15:59	14:45-15:08/23	09:04 15:36	12:08-12:38/30
21	04:54 22:03	05:58 20:53	06:36-07:13/37	19:30	07:45-08:26/41	08:09 18:05		08:19 15:57	14:46-15:08/22	09:05 15:36	12:09-12:39/30
22	04:56 22:01	06:00 20:50	06:38-07:13/35	19:28	07:44-08:29/45	08:11 18:03		08:21 15:56	14:46-15:08/22	09:06 15:37	12:10-12:40/30
23	04:58 21:59	06:02 20:48	06:41-07:12/31	19:25	07:44-08:32/48	08:13 18:00		08:23 15:54	14:46-15:08/22	09:07 15:37	12:10-12:40/30
24	04:59 21:58	06:04 20:45	06:43-07:11/28	19:22	07:44-08:33/49	08:15 17:58		08:25 15:52	14:48-15:08/20	09:08 15:38	12:10-12:40/30
25	05:01 21:56	06:06 20:42	06:45-07:10/25	19:19	07:45-08:34/49	08:18 17:55		08:27 15:51	14:48-15:08/20	09:09 15:38	12:11-12:40/29
26	05:03 21:54	06:08 20:40	06:47-07:08/21	19:16	07:46-08:35/49	08:20 17:53		08:29 15:50	14:49-15:08/19	09:10 15:39	12:11-12:41/30
27	05:05 21:52	06:10 20:37	06:48-07:07/19	19:14	07:47-08:36/49	08:22 16:50	08:52-09:04/12	08:31 15:48	14:50-15:06/16	09:11 15:40	12:12-12:41/29
28	05:07 21:50	06:12 20:34	06:48-07:07/19	19:11	07:48-08:37/49	08:24 16:48	08:50-09:07/17	08:33 15:47	14:50-15:04/14	09:12 15:41	12:12-12:42/30
29	05:09 21:48	06:15 20:32	06:50-07:04/14	19:08	07:50-08:39/49	08:27 16:45	08:48-09:08/20	08:35 15:46	14:51-15:02/11	09:13 15:42	12:13-12:42/29
30	05:11 21:46	06:17 20:29	06:53-07:01/8	19:05	07:52-08:40/48	08:29 16:43	08:42-09:10/28	08:37 15:45	14:52-15:00/8	09:14 15:43	12:14-12:43/29
31	05:13 21:44	06:19 20:26	06:53-07:01/8	19:02	07:52-08:40/48	08:31 16:40	08:39-09:10/31	08:39 15:45	14:52-15:00/8	09:15 15:44	12:14-12:43/29
Potential sun hours	538	474	1180	1329	540	241	2657	3957			
Sum of minutes with flicker	4										

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 09:54-10:13/19 10:47-11:09/22 15:46 10:22-10:45/23	08:27 16:46 08:25 16:48	07:20 07:49-08:28/39 17:52 20:01	06:54 07:55-08:18/23 20:01 21:07	05:34 21:07	04:33 05:10-05:16/6 22:09 04:32 05:09-05:17/8
2	09:06 09:54-10:14/20 10:48-11:08/20 15:47 10:22-10:45/23	08:23 16:48 16:51 16:53	07:17 07:48-08:26/38 17:54 20:03	06:51 07:55-08:16/21 20:03 21:10	05:31 21:10	04:31 05:08-05:18/10 22:12 04:30 05:07-05:19/12
3	09:06 09:54-10:14/20 10:48-11:08/20 15:48 10:22-10:45/23	08:23 16:51 08:21 16:53	07:14 07:46-08:24/38 17:57 20:06	06:48 07:56-08:14/18 20:06 21:12	05:29 21:12	04:28 05:06-05:19/13 22:14 04:27 05:05-05:19/14
4	09:05 09:54-10:14/20 10:49-11:08/19 15:50 10:22-10:45/23	08:21 16:53 08:19 08:50-08:55/5	07:12 07:46-08:23/37 17:59 20:08	06:46 07:59-08:12/13 20:08 21:14	05:27 21:14	04:28 05:06-05:19/13 22:14 04:27 05:05-05:19/14
5	09:05 09:55-10:16/21 10:50-11:09/19 15:51 10:24-10:47/23	08:19 08:50-08:55/5 16:56 16:58	07:09 07:45-08:12/27 18:01 20:10	06:43 05:24 20:10 21:16	05:24 21:16	04:28 05:06-05:19/13 22:14 04:27 05:05-05:19/14
6	09:04 09:55-10:16/21 10:51-11:09/18 15:53 10:24-10:47/23	08:16 08:48-08:58/10 16:58 16:58	07:06 07:45-08:12/27 18:03 20:12	06:40 05:22 20:12 21:18	05:22 21:18	04:27 05:05-05:19/14 22:16 04:27 05:05-05:21/16
7	09:04 09:55-10:17/22 10:52-11:09/17 15:54 10:25-10:47/22	08:14 08:45-08:59/14 17:00 17:00	07:03 07:44-08:12/28 18:06 20:14	06:37 05:20 20:14 21:21	05:20 21:21	04:27 05:05-05:21/16 22:17 04:26 05:04-05:21/17
8	09:03 09:56-10:18/22 10:52-11:08/16 15:56 10:26-10:47/21	08:12 08:43-09:01/18 17:03 17:03	07:01 07:44-08:12/28 18:08 20:17	06:34 05:17 20:17 21:23	05:17 21:23	04:26 05:04-05:21/17 22:18 04:25 05:03-05:21/18
9	09:02 09:55-10:17/22 10:54-11:07/13 15:58 10:26-10:46/20	08:10 08:41-09:01/20 17:05 17:05	06:58 07:44-08:13/29 18:10 20:19	06:32 05:15 20:19 21:25	05:15 21:25	04:25 05:03-05:21/18 22:19 04:24 05:03-05:22/19
10	09:01 09:56-10:18/22 10:56-11:07/11 15:59 10:27-10:47/20	08:07 08:40-09:03/23 17:07 17:07	06:55 07:44-08:12/28 18:12 20:21	06:29 05:13 20:21 21:27	05:13 21:27	04:24 05:03-05:22/19 22:20 04:24 05:03-05:22/19
11	09:00 09:56-10:19/23 10:58-11:06/8 16:01 10:28-10:47/19	08:05 08:38-09:03/25 17:10 17:10	06:52 07:44-08:12/28 18:15 20:23	06:26 05:10 20:23 21:29	05:10 21:29	04:24 05:03-05:22/19 22:21 04:23 05:03-05:22/19
12	08:59 09:56-10:19/23 16:03 10:28-10:46/18	08:03 08:36-09:04/28 17:12 17:12	06:50 07:44-08:11/27 18:17 20:25	06:23 05:08 20:25 21:31	05:08 21:31	04:23 05:03-05:22/19 22:22 04:22 05:04-05:23/19
13	08:58 09:57-10:20/23 16:05 10:30-10:46/16	08:00 08:34-09:03/29 17:15 17:15	06:47 07:44-08:10/26 18:19 07:19-07:32/13	06:21 05:06 20:28 21:33	05:06 21:33	04:22 05:04-05:23/19 22:23 04:22 05:03-05:23/20
14	08:57 09:57-10:19/22 16:07 10:31-10:45/14	07:58 08:32-09:03/31 17:17 17:17	06:44 07:45-08:09/24 18:21 07:17-07:35/18	06:18 05:04 20:30 21:35	05:04 21:35	04:22 05:03-05:23/20 22:24 04:22 05:03-05:23/20
15	08:56 09:58-10:20/22 16:09 10:33-10:45/12	07:56 08:32-09:03/31 17:19 17:19	06:41 07:46-08:08/22 18:24 07:15-07:36/21	06:15 05:02 20:32 21:38	05:02 21:38	04:22 05:03-05:23/20 22:25 04:21 05:04-05:24/20
16	08:54 09:58-10:20/22 16:11 10:34-10:43/9	07:53 08:31-09:02/31 17:22 17:22	06:39 07:47-08:06/19 18:26 07:13-07:37/24	06:13 05:00 20:34 21:40	05:00 21:40	04:21 05:04-05:24/20 22:26 04:21 05:04-05:24/20
17	08:53 10:00-10:21/21 16:13 10:37-10:40/3	07:51 08:31-09:02/31 17:24 17:24	06:36 07:49-08:03/14 18:28 07:11-07:37/26	06:10 04:58 20:36 21:42	04:58 21:42	04:21 05:04-05:24/20 22:27 04:21 05:04-05:24/20
18	08:52 10:00-10:20/20 16:15 16:15	07:48 08:18-08:21/3 17:26 08:30-09:00/30	06:33 07:06-07:37/31 18:30 07:52-07:58/6	06:07 04:56 20:39 21:44	04:56 21:44	04:21 05:04-05:24/20 22:28 04:21 05:04-05:24/20
19	08:50 10:01-10:20/19 16:17 16:17	07:46 08:14-08:25/11 17:29 08:29-08:59/30	06:30 07:02-07:37/35 18:33 20:41	06:05 04:54 20:41 21:46	04:54 21:46	04:21 05:04-05:24/20 22:29 04:21 05:04-05:24/20
20	08:49 10:02-10:19/17 16:19 16:19	07:43 08:12-08:27/15 17:31 08:30-08:59/29	06:27 07:01-07:38/37 18:35 20:43	06:02 04:52 20:43 21:48	04:52 21:48	04:21 05:04-05:24/20 22:30 04:21 05:04-05:25/21
21	08:47 10:03-10:19/16 16:21 16:21	07:41 08:10-08:28/18 17:33 08:30-08:57/27	06:25 06:59-07:38/39 18:37 20:45	05:59 04:50 20:45 21:50	04:50 21:50	04:21 05:04-05:25/21 22:31 04:21 05:05-05:25/20
22	08:46 10:04-10:18/14 16:23 16:23	07:38 08:09-08:29/20 17:36 08:30-08:55/25	06:22 06:57-07:37/40 18:39 20:48	05:57 04:48 20:48 21:51	04:48 21:51	04:21 05:05-05:25/20 22:32 04:22 05:05-05:25/20
23	08:44 10:05-10:17/12 16:26 16:26	07:35 08:09-08:53/44 17:38 17:38	06:19 06:56-07:36/40 18:41 20:50	05:54 04:47 20:50 21:53	04:47 21:53	04:22 05:05-05:25/20 22:33 04:22 05:05-05:25/20
24	08:42 10:08-10:15/7 16:28 16:28	07:33 08:08-08:30/22 17:40 08:31-08:53/22	06:16 06:55-07:35/40 18:44 20:52	05:52 04:45 20:52 21:55	04:45 21:55	04:22 05:05-05:25/20 22:34 04:22 05:06-05:26/20
25	08:41 16:30 16:30 16:30	07:30 08:08-08:30/22 07:59-08:06/7 17:43 08:32-08:52/20	06:13 06:54-07:34/40 18:46 20:54	05:49 04:43 20:54 21:57	04:43 21:57	04:22 05:06-05:26/20 22:35 04:23 05:06-05:26/20
26	08:39 16:32 16:32 16:32	07:28 07:55-08:30/35 17:45 08:33-08:50/17	06:11 06:54-07:34/40 18:48 20:56	05:46 04:42 20:56 21:59	04:42 21:59	04:23 05:06-05:26/20 22:36 04:23 05:06-05:26/20
27	08:37 16:35 16:35 16:35	07:25 07:54-08:30/36 17:47 08:36-08:48/12	06:08 06:54-07:33/39 18:50 20:59	05:44 04:40 20:59 22:01	04:40 22:01	04:23 05:06-05:26/20 22:37 04:24 05:06-05:26/20
28	08:35 16:37 16:37 16:37	07:22 07:52-08:29/37 17:50 08:40-08:43/3	06:05 06:53-07:31/38 18:52 21:01	05:41 04:39 21:01 22:02	04:39 22:02	04:24 05:06-05:26/20 22:38 04:25 05:07-05:26/19
29	08:33 16:39 16:39 16:39	19:55 19:55	07:02 07:53-08:29/36 19:55 21:03	05:39 04:37 21:03 22:04	04:37 22:04	04:25 05:07-05:26/19 22:39 04:25 05:07-05:27/20
30	08:31 16:41 16:41 16:41	19:57 19:57	06:59 07:54-08:28/34 19:57 21:05	05:36 04:36 21:05 22:06	04:36 22:06	04:25 05:07-05:27/20 22:40 04:34 05:11-05:14/3
31	08:29 16:44 16:44 16:44	19:59 19:59	06:57 07:54-08:24/30 19:59 22:07	05:34 04:34 22:07 22:07	04:34 22:07	04:34 05:11-05:14/3 22:41 04:34 05:11-05:14/3
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	965	781	1106	75	3	530

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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 05:07-05:26/19	05:15 06:21	07:25 08:23-08:50/27	07:34 08:10-08:32/22	08:39 09:39-10:01/22	10:40-10:48/8
	22:26 21:41	20:23	19:00 08:01-08:09/8	16:38	15:43	10:10-10:29/19
2	04:27 05:07-05:26/19	05:17 06:23	07:27 08:22-08:50/28	07:36 08:11-08:31/20	08:41 09:39-10:01/22	10:39-10:50/11
	22:26 21:39	20:21	18:57	16:36	15:42	10:10-10:30/20
3	04:28 05:08-05:26/18	05:19 06:25	07:29 08:22-08:50/28	07:38 08:13-08:31/18	08:43 09:39-10:02/23	10:38-10:51/13
	22:25 21:37	20:18	18:54	16:33	15:41	10:10-10:31/21
4	04:29 05:09-05:26/17	05:21 06:27	07:31 08:21-08:50/29	07:41 08:15-08:29/14	08:44 09:40-10:02/22	10:38-10:53/15
	22:24 21:35	20:15	18:51	16:31	15:40	10:10-10:31/21
5	04:30 05:10-05:26/16	05:24 06:30	07:33 08:21-08:49/28	07:43 08:18-08:28/10	08:46 09:40-10:02/22	10:37-10:54/17
	22:24 21:32	20:12	18:48	16:29	15:40	10:10-10:32/22
6	04:31 05:11-05:26/15	05:26 06:32	07:35 08:20-08:49/29	07:45 08:21-08:25/4	08:48 09:41-10:03/22	10:37-10:55/18
	22:23 21:30	20:10	18:46	16:27	15:39	10:11-10:33/22
7	04:32 05:12-05:26/14	05:28 06:34	07:38 08:21-08:49/28	07:47 08:49	09:41-10:02/21	10:36-10:55/19
	22:22 21:28	20:07	18:43	16:24	15:38	10:10-10:33/23
8	04:34 05:13-05:25/12	05:30 06:36	07:40 08:20-08:48/28	07:50 08:51	09:42-10:03/21	10:37-10:56/19
	22:21 21:26	20:04	18:40	16:22	15:38	10:11-10:34/23
9	04:35 05:14-05:25/11	05:32 06:38	07:42 08:20-08:47/27	07:52 08:52	09:43-10:03/20	10:37-10:57/20
	22:20 21:23	20:01	18:37	16:20	15:37	10:11-10:34/23
10	04:36 05:16-05:25/9	05:34 06:40	07:44 08:20-08:58/38	07:54 08:54	09:43-10:03/20	10:37-10:58/21
	22:19 21:21	19:58	18:35	16:18	15:36	10:11-10:34/23
11	04:38 05:17-05:24/7	05:36 06:42	07:46 08:21-09:00/39	07:57 08:55	09:44-10:04/20	10:37-10:59/22
	22:18 21:18	19:56	18:32	16:16	15:36	10:12-10:35/23
12	04:39 05:18-05:22/4	05:38 06:44	07:48 08:22-09:01/39	07:59 08:56	09:44-10:03/19	10:37-10:59/22
	22:16 21:16	19:53	18:29	16:14	15:36	10:12-10:35/23
13	04:41 05:20-05:21/1	05:40 06:46	07:51 08:23-09:01/38	08:01 08:57	09:45-10:03/18	10:37-10:59/22
	22:15 21:13	19:50	18:27	16:12	15:35	10:12-10:36/24
14	04:42 05:43	06:49 07:43-08:19/36	07:53 08:26-09:02/36	08:03 08:59	09:46-10:04/18	10:38-11:01/23
	22:14 21:11	19:47	18:24	16:10	15:35	10:13-10:37/24
15	04:44 05:45	06:51 07:43-08:20/37	07:55 08:27-09:02/35	08:06 09:00	09:46-10:04/18	10:38-11:01/23
	22:12 21:08	19:44	18:21	16:08	15:35	10:13-10:37/24
16	04:45 05:47	06:53 07:42-08:21/39	07:57 08:28-09:02/34	08:08 09:01	09:47-10:05/18	10:39-11:02/23
	22:11 21:06	19:42	18:19	16:06	15:35	10:14-10:38/24
17	04:47 05:49	06:55 07:43-08:23/40	08:00 08:40-09:02/22	08:10 09:02	09:48-10:05/17	10:39-11:02/23
	22:09 21:03	19:39	18:16	16:04	15:35	10:14-10:38/24
18	04:49 05:51	06:57 07:42-08:23/41	08:02 08:39-09:01/22	08:12 09:42-09:49/7	09:02 09:48-10:06/18	10:40-11:03/23
	22:08 21:01	19:36	18:13	16:02	15:35	10:15-10:39/24
19	04:50 05:53	06:59 07:42-08:23/41	08:04 08:39-09:00/21	08:15 09:40-09:52/12	09:03 09:48-10:05/17	10:39-11:03/24
	22:06 20:58	19:33	18:11	16:01	15:36	10:14-10:38/24
20	04:52 05:55	07:01 07:42-08:23/41	08:06 08:41-09:00/19	08:17 09:39-09:53/14	09:04 09:49-10:06/17	10:40-11:03/23
	22:05 20:56	19:30	18:08	15:59	15:36	10:15-10:39/24
21	04:54 05:58	07:03 07:43-08:23/40	08:09 08:41-08:58/17	08:19 09:39-09:55/16	09:05 09:50-10:07/17	10:41-11:04/23
	22:03 20:53	19:28	18:05	15:57	15:36	10:16-10:40/24
22	04:56 06:00	07:05 07:43-08:22/39	08:11 08:43-08:57/14	08:21 09:38-09:55/17	09:05 09:50-10:07/17	10:41-11:04/23
	22:01 20:50	19:25	18:03	15:56	15:37	10:16-10:40/24
23	04:58 06:02	07:08 07:44-08:22/38	08:13 08:45-08:54/9	08:23 09:38-09:57/19	09:06 09:51-10:08/17	10:42-11:05/23
	21:59 20:48	19:22	18:00	15:54	15:37	10:17-10:41/24
24	04:59 06:04	07:10 07:45-08:21/36	08:15 09:00-09:31/31	08:25 09:37-09:57/20	09:06 09:51-10:08/17	10:42-11:05/23
	21:58 20:45	19:19	17:58	15:52	15:38	10:17-10:41/24
25	05:01 06:06	07:12 07:47-08:20/33	07:18 08:00-08:31/31	08:27 09:37-09:58/21	09:06 09:51-10:08/17	
	21:56 20:42	19:16	16:55	15:51	15:38	10:18-11:06/48
26	05:03 06:08	07:14 08:31-08:44/13	07:20 08:01-08:32/31	08:29 09:37-09:59/22	09:07 09:52-10:09/17	10:43-11:06/23
	21:54 20:40	19:14	16:53	15:50	15:39	10:18-10:42/24
27	05:05 06:10	07:16 08:29-08:47/18	07:22 08:01-08:32/31	08:31 09:37-09:59/22	09:07 09:52-10:09/17	10:43-11:06/23
	21:52 20:37	19:11	16:50	15:48	15:40	10:18-10:42/24
28	05:07 06:13	07:18 08:27-08:48/21	07:24 08:03-08:33/30	08:33 09:37-09:59/22	09:07 09:52-10:10/18	10:44-11:07/23
	21:50 20:34	19:08	16:48	15:47	15:41	10:19-10:43/24
29	05:09 06:15	07:20 08:25-08:49/24	07:27 08:03-08:33/30	08:35 09:37-10:00/23	09:07 09:53-10:11/18	10:45-11:07/22
	21:48 20:32	19:05	16:45	15:46	15:42	10:20-10:44/24
30	05:11 06:17	07:22 08:24-08:49/25	07:29 08:06-08:33/27	08:37 09:38-10:01/23	09:07 09:53-10:12/19	10:46-11:08/22
	21:46 20:29	19:02	16:43	15:45	15:43	10:21-10:44/23
31	05:13 06:19		07:31 08:08-08:32/24		09:07 09:53-10:12/19	10:46-11:08/22
	21:44 20:26		16:41		15:44	10:20-10:44/24
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	162	0	805	1108	397	1946

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06 15:46	08:27 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09	04:26 22:26	05:15 21:41	06:21 20:23	07:25 18:59	07:34 16:38	08:39 15:43
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:10	04:32 22:10	04:27 22:25	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42
3	09:06 15:48	08:23 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41
4	09:05 15:50	08:21 16:53	07:11 17:59	06:45 20:08	05:27 21:14	04:29 22:13	04:29 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:44 15:40
5	09:05 15:51	08:19 16:56	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:40
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:16	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:48 15:39
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 20:14	05:19 21:21	04:27 22:17	04:32 22:22	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38
8	09:03 15:56	08:12 17:03	07:01 18:08	06:34 20:17	05:17 21:23	04:26 22:18	04:34 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:37
9	09:02 15:58	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37
10	09:01 15:59	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:36
11	09:00 16:01	08:05 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:24 22:21	04:38 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36
12	08:59 16:03	08:03 17:12	06:50 18:17	06:23 20:25	05:08 21:31	04:23 22:22	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:36
13	08:58 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:22 22:23	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:27	08:01 16:12	08:57 15:35
14	08:57 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24	04:42 22:14	05:43 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35
15	08:56 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:37	04:22 22:25	04:44 22:12	05:45 21:08	06:51 19:44	07:55 18:21	08:06 16:08	09:00 15:35
16	08:54 16:11	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:21 22:25	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:18	08:08 16:06	09:01 15:35
17	08:53 16:13	07:51 17:24	06:36 18:28	06:10 20:36	04:58 21:42	04:21 22:26	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35
18	08:52 16:15	07:48 17:26	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	08:50 16:17	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:35
20	08:49 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	08:47 16:21	07:40 17:33	06:25 18:37	05:59 20:45	04:50 21:49	04:21 22:27	04:54 22:03	05:57 20:53	07:03 19:28	08:08 18:05	08:19 15:57	09:04 15:36
22	08:46 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 21:51	04:21 22:28	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:22 22:28	04:58 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	08:42 16:28	07:33 17:40	06:16 18:44	05:51 20:52	04:45 21:55	04:22 22:28	04:59 21:57	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:52	09:06 15:38
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28	05:01 21:56	06:06 20:42	07:12 19:16	07:18 16:55	08:27 15:51	09:06 15:38
26	08:39 16:32	07:27 17:45	06:11 18:48	05:46 20:56	04:42 21:59	04:23 22:28	05:03 21:54	06:08 20:40	07:14 19:13	07:20 16:53	08:29 15:50	09:07 15:39
27	08:37 16:34	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:00	04:23 22:27	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40
28	08:35 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:39 22:02	04:24 22:27	05:07 21:50	06:12 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41
29	08:33 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:24 22:27	05:09 21:48	06:15 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42
30	08:31 16:41		06:59 19:57	05:36 21:05	04:36 22:06	04:25 22:26	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:45	09:07 15:43
31	08:29 16:44		06:57 19:59		04:34 22:07		05:13 21:43	06:19 20:26		07:31 16:40		09:07 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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 13:20-13:29/9 09:59-10:41/42 15:46 13:35-13:43/8	08:27 09:05-09:25/20 16:46	07:20 17:52	06:54 20:01	05:34 21:07	04:33 22:09
2	09:06 13:22-13:29/7 09:59-10:42/43 15:47 13:37-13:43/6	08:25 09:04-09:25/21 16:48	07:17 17:54	06:51 20:03	05:31 21:10	04:32 22:10
3	09:06 09:59-10:42/43 15:48	08:23 09:04-09:26/22 16:51	07:14 17:57	06:48 20:06	05:29 21:12	04:31 22:12
4	09:05 09:59-10:42/43 15:50	08:21 09:05-09:27/22 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13
5	09:05 10:00-10:43/43 15:51	08:19 09:04-09:26/22 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14
6	09:04 10:00-10:43/43 15:53	08:16 09:05-09:26/21 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:16
7	09:03 10:01-10:44/43 15:54	08:14 09:05-09:26/21 17:00	07:03 18:06	06:37 20:14	05:19 21:21	04:26 22:17
8	09:03 10:01-10:43/42 15:56	08:12 09:06-09:26/20 17:03	07:01 18:08	06:34 20:17	05:17 21:23	04:26 22:18
9	09:02 10:01-10:44/43 15:57	08:10 09:06-09:24/18 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19
10	09:01 10:01-10:44/43 15:59	08:07 09:08-09:24/16 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20
11	09:00 10:02-10:45/43 16:01	08:05 09:09-09:22/13 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:23 22:21
12	08:59 10:02-10:44/42 16:03	08:03 09:12-09:20/8 17:12	06:50 18:17	06:23 20:25	05:08 21:31	04:23 22:22
13	08:58 10:03-10:44/41 16:05	08:00 17:15	06:47 18:19	06:21 20:28	05:06 21:33	04:22 22:23
14	08:57 10:03-10:44/41 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24
15	08:56 10:04-10:44/40 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 21:38	04:22 22:25
16	08:54 10:26-10:43/17 16:11 10:05-10:25/20	07:53 17:22	06:39 18:26	06:13 20:34	05:00 21:40	04:21 22:25
17	08:53 10:27-10:43/16 16:13 10:05-10:24/19	07:51 17:24	06:36 18:28	06:10 20:36	04:58 21:42	04:21 22:26
18	08:52 10:29-10:42/13 16:15 10:07-10:25/18	07:48 17:26	06:33 18:30	06:07 20:39	04:56 21:44	04:21 22:26
19	08:50 10:30-10:41/11 16:17 10:08-10:24/16	07:46 17:29	06:30 18:33	06:05 20:41	04:54 21:46	04:21 22:27
20	08:49 10:33-10:38/5 16:19 10:09-10:24/15	07:43 17:31	06:27 18:35	06:02 20:43	04:52 21:48	04:21 22:27
21	08:47 10:10-10:22/12 16:21	07:40 17:33	06:25 18:37	05:59 20:45	04:50 21:49	04:21 22:27
22	08:46 10:12-10:21/9 16:23	07:38 17:36	06:22 18:39	05:57 20:48	04:48 21:51	04:21 22:28
23	08:44 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:47 21:53	04:21 22:28
24	08:42 16:28	07:33 17:40	06:16 18:44	05:51 20:52	04:45 21:55	04:22 22:28
25	08:40 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 21:57	04:22 22:28
26	08:39 09:13-09:16/3 16:32	07:27 17:45	06:11 18:48	05:46 20:56	04:42 21:59	04:23 22:28
27	08:37 09:11-09:19/8 16:34	07:25 17:47	06:08 18:50	05:44 20:59	04:40 22:01	04:23 22:28
28	08:35 09:09-09:21/12 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:38 22:02	04:24 22:27
29	08:33 09:06-09:22/16 16:39		07:02 19:55	05:39 21:03	04:37 22:04	04:24 22:27
30	08:31 09:05-09:23/18 16:41		06:59 19:57	05:36 21:05	04:36 22:06	04:25 22:27
31	08:29 09:05-09:24/19 16:44		06:57 19:59		04:34 22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	912	224	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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 21:41	06:21 20:23	07:25 18:59	07:34 16:38	08:37-08:54/17 15:43
2	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:36-08:54/18 15:42
3	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:35-08:55/20 15:41
4	04:29 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:41 16:31	08:34-08:55/21 15:40
5	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:35-08:56/21 15:40
6	04:31 22:23	05:26 21:30	06:32 20:10	07:35 18:46	07:45 16:27	08:34-08:56/22 15:39
7	04:32 22:22	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:34-08:56/22 15:38
8	04:33 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:35-08:57/22 15:37
9	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:35-08:56/21 15:37
10	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:35	07:54 16:18	08:36-08:56/20 15:36
11	04:37 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:36-08:55/19 15:36
12	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:37-08:55/18 15:36
13	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:27	08:01 16:12	08:38-08:54/16 15:35
14	04:42 22:14	05:43 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:41-08:53/12 15:35
15	04:44 22:12	05:45 21:08	06:51 19:44	07:55 18:21	08:06 16:08	08:44-08:52/8 15:35
16	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:18	08:08 16:06	08:46-08:49/3 15:35
17	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:02 15:35
18	04:49 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35
19	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:11	08:15 16:01	09:03 15:35
20	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36
21	04:54 22:03	05:57 20:53	07:03 19:28	08:08 18:05	08:19 15:57	09:05 15:36
22	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:56	09:05 15:37
23	04:57 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:06 15:37
24	04:59 21:57	06:04 20:45	07:10 19:19	08:15 17:58	08:25 15:52	09:06 15:38
25	05:01 21:56	06:06 20:42	07:12 19:16	08:18 16:55	08:27 15:51	09:06 15:38
26	05:03 21:54	06:08 20:40	07:14 19:13	08:20 16:53	08:29 15:50	09:07 15:39
27	05:05 21:52	06:10 20:37	07:16 19:11	08:22 16:50	08:31 15:48	09:07 15:40
28	05:07 21:50	06:12 20:34	07:18 19:08	08:24 16:48	08:33 15:47	09:07 15:41
29	05:09 21:48	06:15 20:32	07:20 19:05	08:27 16:45	08:35 15:46	09:07 15:42
30	05:11 21:46	06:17 20:29	07:22 19:02	08:29 16:43	08:37 15:44	09:07 15:43
31	05:13 21:43	06:19 20:26		08:31 16:40	08:38-08:52/14	09:07 15:44
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	0	23	614	1890

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 15:46 09:06 15:47	08:27 16:46 08:25 16:48	07:19 17:52 07:17 17:54	06:54 18:49-19:32/43 20:01 17:54-18:38/44	05:34 06:03-06:24/21 21:07 19:50-20:20/30	04:33 05:09-05:11/2 22:08 21:21-21:28/7
2	09:06 15:47 09:06 15:48	08:25 16:48 08:23 16:51	07:17 17:54 07:14 17:56	06:51 18:48-19:34/46 20:03 17:55-18:37/42	05:31 06:03-06:24/21 21:09 19:49-20:19/30	04:32 05:08-05:12/4 22:10 21:20-21:29/9
3	09:06 15:48 09:05 15:50	08:23 16:51 08:21 16:53	07:14 17:56 07:11 17:59	06:48 18:46-19:36/50 20:05 17:56-18:35/39	05:29 06:03-06:23/20 21:12 19:50-20:18/28	04:31 05:08-05:14/6 22:11 21:20-21:30/10
4	09:05 15:53 09:03 15:54	08:21 16:58 08:12 16:54	07:11 18:03 07:06 17:12-17:34/22	06:45 18:45-19:38/53 20:08 17:57-18:33/36	05:26 06:04-06:23/19 21:14 19:51-20:18/27	04:29 05:07-05:15/8 22:13 21:20-21:32/12
5	09:05 15:51 09:04 15:53	08:18 16:55 08:16 16:58	07:09 17:16-17:29/13 18:01 17:12-17:34/22	06:43 18:44-19:40/56 20:10 18:00-18:31/31	05:24 06:04-06:22/18 21:16 19:52-20:17/25	04:28 05:06-05:16/10 22:14 21:20-21:33/13
6	09:04 15:53 09:03 15:56	08:16 16:58 08:12 17:03	07:06 18:03 07:00 17:06-17:38/32	06:40 18:43-19:41/58 20:12 18:02-18:28/26	05:22 06:05-06:21/16 21:18 19:53-20:16/23	04:27 05:05-05:16/11 22:15 21:20-21:34/14
7	09:03 15:54 09:03 15:56	08:14 17:00 08:12 17:03	07:03 17:09-17:36/27 18:06 17:06-17:38/32	06:37 18:42-19:40/58 20:14 18:05-18:25/20	05:19 06:07-06:20/13 21:20 19:53-20:14/21	04:26 05:04-05:16/12 22:17 21:19-21:35/16
8	09:03 15:56 09:02 15:57	08:12 17:03 08:10 17:05	07:00 17:06-17:38/32 18:08 17:04-17:40/36	06:34 18:41-19:39/58 20:16 18:09-18:19/10	05:17 06:08-06:18/10 21:23 19:55-20:12/17	04:26 05:04-05:18/14 22:18 21:20-21:36/16
9	09:02 15:57 09:01 15:59	08:10 17:05 08:07 17:07	06:58 18:10 17:02-17:42/40 18:12	06:32 18:41-19:39/58 20:19 18:15	05:15 19:57-20:10/13 21:25 20:02-20:05/3	04:25 05:03-05:18/15 22:19 21:19-21:37/18
10	09:01 15:59 09:00 16:01	08:07 17:07 08:05 17:10	06:55 17:02-17:42/40 18:12 17:01-17:44/43	06:29 18:40-19:37/57 20:21 18:23	05:13 20:02-20:05/3 21:27 05:10	04:24 05:03-05:19/16 22:20 21:20-21:38/18
11	09:00 16:01 08:59 16:03	08:05 17:10 08:03 17:12	06:52 17:01-17:44/43 18:15 16:59-17:44/45	06:26 18:40-19:35/55 20:23 18:25	05:10 21:29 05:08 21:31	04:23 21:19-21:38/19 05:02-05:20/18 22:22 21:20-21:40/20
12	08:59 16:03 08:58 16:05	08:03 17:12 08:00 17:14	06:50 16:59-17:44/45 18:17 16:58-17:45/47	06:23 18:40-19:33/53 20:25 18:27	05:08 21:31 05:06 21:33	04:23 05:02-05:20/18 22:22 21:20-21:40/20
13	08:57 16:07 08:55 16:09	07:58 17:17 07:55 17:19	06:44 16:57-17:45/48 18:21 16:55-17:46/51	06:18 18:39-19:32/53 20:30 18:32	05:04 21:35 05:02 21:37	04:22 05:01-05:20/19 22:23 21:20-21:42/22
14	08:57 16:07 08:55 16:09	07:58 17:17 07:55 17:19	06:44 16:57-17:45/48 18:21 16:55-17:46/51	06:18 18:39-19:32/53 20:30 18:32	05:04 21:35 05:02 21:37	04:22 05:01-05:20/19 22:23 21:20-21:42/22
15	08:54 16:11 08:53 16:13	07:53 17:22 07:50 17:24	06:38 16:55-17:47/52 18:26 16:54-17:47/53	06:12 20:00-20:03/3 20:34 18:39-19:31/52	05:00 21:39 04:58 21:41	04:21 05:01-05:21/20 22:25 21:20-21:42/22
16	08:53 16:13 08:51 16:15	07:50 17:24 07:48 17:26	06:36 16:54-17:47/53 18:28 16:53-17:47/54	06:10 19:58-20:05/7 20:36 18:40-19:31/51	04:58 21:41 04:56 21:43	04:21 05:01-05:21/20 22:26 21:20-21:43/23
17	08:51 16:15 08:50 16:17	07:48 17:26 07:45 17:29	06:33 16:53-17:47/54 18:30 16:53-17:47/54	06:07 19:56-20:07/11 20:39 18:40-19:30/50	04:56 21:43 04:54 21:45	04:21 05:01-05:22/21 22:26 21:20-21:43/23
18	08:50 16:17 08:49 16:19	07:45 17:29 07:43 17:31	06:30 16:53-17:47/54 18:32 18:35	06:04 19:55-20:10/15 20:41 18:41-19:30/49	04:54 21:45 04:52 21:47	04:21 05:01-05:22/21 22:27 21:20-21:44/24
19	08:49 16:19 08:47 16:21	07:43 17:31 07:40 17:33	06:27 16:52-17:46/54 18:35 16:51-17:46/55	06:02 19:53-20:11/18 20:43 18:41-19:28/47	04:52 21:47 04:50 21:49	04:21 05:01-05:22/21 22:27 21:21-21:44/23
20	08:45 16:23 08:44 16:25	07:38 17:36 07:35 17:38	06:22 16:52-17:47/55 18:39 16:51-17:46/55	05:57 19:51-20:15/24 20:47 18:42-19:26/44	04:48 21:51 04:47 21:53	04:21 05:01-05:22/21 22:27 21:21-21:44/23
21	08:44 16:25 08:42 16:28	07:35 17:38 07:33 17:40	06:19 16:51-17:46/55 18:41 16:51-17:45/54	05:54 19:51-20:18/27 20:50 18:44-19:26/42	04:47 21:53 04:45 21:55	04:21 05:02-05:23/21 22:28 21:21-21:45/24
22	08:42 16:28 08:40 16:30	07:33 17:40 07:30 17:43	06:16 16:51-17:45/54 18:43 16:51-17:45/54	05:51 06:19-06:22/3 20:52 19:49-20:19/30	04:45 21:55 04:43 21:57	04:22 05:02-05:23/21 22:28 21:21-21:44/23
23	08:40 16:30 08:39 16:32	07:30 17:43 07:27 17:45	06:13 16:51-17:45/54 18:46 16:51-17:44/53	05:49 06:17-06:23/6 20:54 19:49-20:22/33	04:43 21:57 04:42 21:59	04:22 05:03-05:23/20 22:28 21:21-21:44/23
24	08:39 16:32 08:37 16:34	07:27 17:45 07:25 17:47	06:10 16:51-17:44/53 18:48 18:05-18:17/12	05:46 06:15-06:24/9 20:56 19:49-20:21/32	04:42 21:57 04:40 22:00	04:23 05:03-05:23/20 22:27 21:22-21:44/22
25	08:37 16:34 08:35 16:37	07:25 17:47 07:22 17:50	06:08 16:52-17:44/52 18:50 18:01-18:21/20	05:44 06:12-06:24/12 20:58 19:49-20:21/32	04:40 22:00 04:38 22:02	04:23 05:04-05:24/20 22:27 21:22-21:44/22
26	08:35 16:37 08:33 16:39	07:22 17:50 07:19 17:54	06:05 16:52-17:43/51 18:52 17:57-18:23/26	05:41 06:10-06:25/15 21:01 19:49-20:22/33	04:38 22:02 04:37 22:04	04:24 05:04-05:23/19 22:27 21:22-21:44/22
27	08:33 16:39 08:31 16:41	07:17 17:50 07:15 17:57	06:02 18:55-19:25/30 19:54 17:52-18:42/50	05:39 06:07-06:24/17 21:03 19:48-20:21/33	04:37 22:04 04:36 21:22-21:25/3	04:24 05:05-05:24/19 22:27 21:23-21:44/21
28	08:31 16:41 08:29 16:44	07:15 17:50 07:13 17:59	06:59 18:52-19:27/35 19:57 17:52-18:40/48	05:36 06:05-06:24/19 21:05 19:49-20:20/31	04:36 21:22-21:25/3 22:05 04:34	04:25 05:05-05:23/18 22:26 21:23-21:43/20
29	08:29 16:44 Potential sun hours	07:13 17:50 227	07:02 18:55-19:25/30 19:59 17:53-18:39/46	05:33 06:07-06:24/17 21:03 19:48-20:21/33	04:37 22:04 04:36 21:22-21:25/3	04:24 05:05-05:24/19 22:27 21:23-21:44/21
30	08:27 16:42 Sum of minutes with flicker	07:11 17:48 0	06:57 18:50-19:29/39 19:59 17:53-18:39/46	05:33 06:05-06:24/19 21:05 19:49-20:20/31	04:36 21:22-21:25/3 22:05 04:34	04:25 05:05-05:23/18 22:26 21:23-21:43/20
31						

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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 05:06-05:23/17	05:15	06:21 18:40-19:34/54	07:24 17:38-18:24/46	07:33	08:39
	22:26 21:23-21:43/20	21:41	20:23	18:59	16:38	15:43
2	04:27 05:07-05:23/16	05:17	06:23 18:39-19:36/57	07:27 17:39-18:22/43	07:36	08:41
	22:25 21:24-21:43/19	21:39	20:21	18:57	16:36	15:42
3	04:28 05:08-05:23/15	05:19 20:10-20:18/8	06:25 18:39-19:37/58	07:29 17:39-18:20/41	07:38	08:42
	22:25 21:24-21:42/18	21:37	20:18	18:54	16:33	15:41
4	04:29 05:09-05:23/14	05:21 06:20-06:25/5	06:27 18:39-19:37/58	07:31 17:40-18:18/38	07:40	08:44
	22:24 21:25-21:42/17	21:35 20:07-20:21/14	20:15 18:07-18:17/10	18:51	16:31	15:40
5	04:30 05:10-05:23/13	05:23 06:17-06:28/11	06:29 18:39-19:37/58	07:33 17:42-18:17/35	07:43	08:46
	22:23 21:25-21:41/16	21:32 20:05-20:23/18	20:12 18:02-18:22/20	18:48	16:29	15:40
6	04:31 05:11-05:23/12	05:26 06:15-06:30/15	06:31 18:39-19:37/58	07:35 17:44-18:14/30	07:45	08:47
	22:22 21:26-21:41/15	21:30 20:03-20:24/21	20:09 17:58-18:24/26	18:45	16:26	15:39
7	04:32 05:12-05:22/10	05:28 06:14-06:31/17	06:34 18:39-19:36/57	07:37 17:46-18:10/24	07:47	08:49
	22:22 21:26-21:40/14	21:28 20:02-20:25/23	20:07 17:55-18:26/31	18:43	16:24	15:38
8	04:33 05:13-05:22/9	05:30 06:13-06:32/19	06:36 18:40-19:33/53	07:40 17:49-18:07/18	07:50	08:50
	22:21 21:27-21:39/12	21:25 20:01-20:26/25	20:04 17:53-18:28/35	18:40	16:22	15:37
9	04:35 05:14-05:21/7	05:32 06:13-06:32/19	06:38 18:40-19:30/50	07:42 17:57-18:00/3	07:52	08:52
	22:20 21:27-21:38/11	21:23 20:00-20:27/27	20:01 17:51-18:29/38	18:37	16:20	15:37
10	04:36 05:16-05:21/5	05:34 06:12-06:33/21	06:40 18:41-19:27/46	07:44	07:54	08:53
	22:19 21:28-21:37/9	21:21 19:59-20:28/29	19:58 17:49-18:30/41	18:35	16:18	15:36
11	04:37 05:17-05:20/3	05:36 06:12-06:33/21	06:42 18:41-19:25/44	07:46	07:56	08:55
	22:17 21:29-21:37/8	21:18 19:58-20:28/30	19:56 17:47-18:31/44	18:32	16:16	15:36
12	04:39 21:30-21:35/5	05:38 06:12-06:33/21 19:08-19:17/9	06:44 18:42-19:22/40	07:48	07:59	08:56
	22:16	21:16 19:58-20:29/31	19:53 17:45-18:31/46	18:29	16:14	15:36
13	04:40 21:30-21:34/4	05:40 06:14-06:33/19 19:03-19:21/18	06:46 18:43-19:19/36	07:50	08:01	08:57
	22:15	21:13 19:57-20:29/32	19:50 17:44-18:32/48	18:26	16:12	15:35
14	04:42 21:32-21:33/1	05:42 06:16-06:33/17 19:00-19:24/24	06:48 18:45-19:16/31	07:53	08:03	08:58
	22:14	21:11 19:57-20:29/32	19:47 17:43-18:32/49	18:24	16:10	15:35
15	04:44	05:45 06:18-06:32/14 18:57-19:26/29	06:50 17:41-18:32/51	07:55	08:06	08:59
	22:12	21:08 19:57-20:29/32	19:44 18:46-19:13/27	18:21	16:08	15:35
16	04:45	05:47 06:20-06:31/11 18:55-19:27/32	06:53 17:40-18:32/52	07:57	08:08	09:00
	22:11	21:06 19:55-20:28/33	19:41 18:49-19:10/21	18:18	16:06	15:35
17	04:47	05:49 06:22-06:31/9 18:53-19:29/36	06:55 17:39-18:32/53	07:59	08:10	09:01
	22:09	21:03 19:55-20:28/33	19:39 18:52-19:07/15	18:16	16:04	15:35
18	04:48	05:51 06:24-06:29/5 18:51-19:29/38	06:57 17:39-18:32/53	08:02	08:12	09:02
	22:08	21:01 19:55-20:27/32	19:36	18:13	16:02	15:35
19	04:50	05:53 06:26-06:28/2 18:49-19:30/41	06:59 17:38-18:32/54	08:04	08:14	09:03
	22:06	20:58 19:55-20:25/30	19:33	18:10	16:00	15:35
20	04:52	05:55 19:55-20:22/27	07:01 17:37-18:32/55	08:06	08:17	09:04
	22:04	20:55 18:48-19:31/43	19:30	18:08	15:59	15:36
21	04:54	05:57 19:56-20:20/24	07:03 17:37-18:32/55	08:08	08:19	09:04
	22:03	20:53 18:47-19:31/44	19:27	18:05	15:57	15:36
22	04:56	06:00 19:56-20:17/21	07:05 17:37-18:32/55	08:11	08:21	09:05
	22:01	20:50 18:46-19:32/46	19:25	18:03	15:55	15:36
23	04:57	06:02 19:57-20:15/18	07:07 17:37-18:31/54	08:13	08:23	09:05
	21:59	20:48 18:44-19:32/48	19:22	18:00	15:54	15:37
24	04:59	06:04 19:57-20:12/15	07:09 17:36-18:31/55	08:15	08:25	09:06
	21:57	20:45 18:44-19:33/49	19:19	17:58	15:52	15:38
25	05:01	06:06 19:58-20:10/12	07:12 17:36-18:30/54	07:17	08:27	09:06
	21:55	20:42 18:43-19:33/50	19:16	16:55	15:51	15:38
26	05:03	06:08 20:00-20:07/7	07:14 17:36-18:29/53	07:20	08:29	09:06
	21:53	20:40 18:42-19:33/51	19:13	16:53	15:49	15:39
27	05:05	06:10 20:02-20:04/2	07:16 17:36-18:28/52	07:22	08:31	09:07
	21:52	20:37 18:41-19:33/52	19:11	16:50	15:48	15:40
28	05:07	06:12 18:41-19:34/53	07:18 17:36-18:27/51	07:24	08:33	09:07
	21:50	20:34	19:08	16:48	15:47	15:41
29	05:09	06:14 18:41-19:34/53	07:20 17:37-18:27/50	07:27	08:35	09:07
	21:47	20:31	19:05	16:45	15:46	15:42
30	05:11	06:17 18:40-19:34/54	07:22 17:38-18:25/47	07:29	08:37	09:07
	21:45	20:29	19:02	16:43	15:44	15:43
31	05:13	06:19 18:40-19:33/53		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	290	1625	1995	278	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

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
0 1 Sum
4 076 4 076 8 152

	January	February	March	April	May	June
1	09:06 15:45	08:27 15:05-15:52/47 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 20:41-20:58/17 22:09
2	09:06 15:47	08:25 15:06-15:52/46 16:48	07:17 17:54	06:51 20:03	05:31 21:09	04:32 20:42-20:57/15 22:10
3	09:06 15:48	08:23 15:07-15:53/46 16:51	07:14 17:56	06:48 20:05	05:29 21:12	04:30 20:43-20:56/13 22:12
4	09:05 15:49	08:21 15:07-15:52/45 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 20:44-20:56/12 22:13
5	09:05 15:51	08:18 15:09-15:52/43 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 20:46-20:56/10 22:14
6	09:04 15:52	08:16 15:10-15:51/41 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 20:47-20:54/7 22:16
7	09:03 15:54	08:14 15:12-15:51/39 17:00	07:03 18:06	06:37 20:14	05:19 21:20	04:26 20:49-20:52/3 22:17
8	09:03 15:56	08:12 15:27-15:50/23 17:03	07:00 18:08	06:34 20:16	05:17 20:45-20:47/2 21:23	04:26 22:18
9	09:02 15:57	08:10 15:28-15:50/22 17:05	06:58 18:10	06:32 20:19	05:15 20:42-20:49/7 21:25	04:25 22:19
10	09:01 15:59	08:07 15:29-15:48/19 17:07	06:55 18:12	06:29 20:21	05:13 20:41-20:51/10 21:27	04:24 22:20
11	09:00 16:01	08:05 15:32-15:47/15 17:10	06:52 18:15	06:26 20:23	05:10 20:39-20:53/14 21:29	04:23 22:21
12	08:59 15:10-15:16/6 16:03	08:03 15:34-15:44/10 17:12	06:50 18:17	06:23 20:25	05:08 20:38-20:55/17 21:31	04:23 22:22
13	08:58 15:09-15:19/10 16:05	08:00 17:14	06:47 18:19	06:21 20:27	05:06 20:37-20:57/20 21:33	04:22 22:23
14	08:57 15:07-15:21/14 16:07	07:58 17:17	06:44 18:21	06:18 20:30	05:04 20:38-20:59/21 21:35	04:22 22:24
15	08:55 15:06-15:22/16 16:09	07:55 17:19	06:41 18:24	06:15 20:32	05:02 20:37-21:00/23 21:37	04:22 22:24
16	08:54 15:06-15:24/18 16:11	07:53 17:21	06:38 18:26	06:12 20:34	05:00 20:36-21:00/24 21:39	04:21 22:25
17	08:53 15:05-15:25/20 16:13	07:50 17:24	06:36 18:28	06:10 20:36	04:58 20:36-21:00/24 21:41	04:21 22:26
18	08:51 15:04-15:26/22 16:15	07:48 17:26	06:33 18:30	06:07 20:39	04:56 20:36-21:00/24 21:43	04:21 22:26
19	08:50 15:04-15:28/24 16:17	07:45 17:29	06:30 18:32	06:04 20:41	04:54 20:36-21:01/25 21:45	04:21 22:27
20	08:49 15:04-15:29/25 16:19	07:43 17:31	06:27 18:35	06:02 20:43	04:52 20:36-21:00/24 21:47	04:21 22:27
21	08:47 15:31-15:41/10 16:21	07:40 17:33	06:24 18:37	05:59 20:45	04:50 20:37-21:01/24 21:49	04:21 22:27
22	08:45 15:03-15:43/40 16:23	07:38 17:36	06:22 18:39	05:57 20:47	04:48 20:36-21:01/25 21:51	04:21 22:27
23	08:44 15:03-15:45/42 16:25	07:35 17:38	06:19 18:41	05:54 20:50	04:46 20:36-21:00/24 21:53	04:21 22:28
24	08:42 15:03-15:46/43 16:28	07:33 17:40	06:16 18:43	05:51 20:52	04:45 20:37-21:00/23 21:55	04:22 22:28
25	08:40 15:03-15:47/44 16:30	07:30 17:43	06:13 18:46	05:49 20:54	04:43 20:38-21:01/23 21:57	04:22 22:28
26	08:39 15:03-15:49/46 16:32	07:27 17:45	06:10 18:48	05:46 20:56	04:41 20:37-21:00/23 21:59	04:23 22:28
27	08:37 15:04-15:50/46 16:34	07:25 17:47	06:08 18:50	05:44 20:58	04:40 20:38-21:00/22 22:00	04:23 22:27
28	08:35 15:03-15:50/47 16:37	07:22 17:50	06:05 18:52	05:41 21:01	04:38 20:39-21:00/21 22:02	04:24 22:27
29	08:33 15:04-15:51/47 16:39		07:02 19:54	05:39 21:03	04:37 20:40-21:00/20 22:04	04:24 22:27
30	08:31 15:04-15:51/47 16:41		06:59 19:57	05:36 21:05	04:35 20:40-20:58/18 22:05	04:25 22:26
31	08:29 15:05-15:52/47 16:44		06:56 19:59		04:34 20:40-20:58/18 22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	640	407	0	0	476	77

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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 20:49-21:04/15 21:41	06:21 20:23	07:24 18:59	07:33 14:59-15:18/19 16:38	08:39 15:43
2	04:27 22:25	05:17 20:50-21:02/12 21:39	06:23 20:21	07:27 18:57	07:36 14:58-15:20/22 16:36	08:41 15:42
3	04:28 22:25	05:19 20:51-21:01/10 21:37	06:25 20:18	07:29 18:54	07:38 14:56-15:20/24 16:33	08:42 15:41
4	04:29 22:24	05:21 20:53-20:59/6 21:35	06:27 20:15	07:31 18:51	07:40 14:41-15:21/40 16:31	08:44 15:40
5	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 14:40-15:22/42 16:29	08:46 15:39
6	04:31 20:54-21:00/6 22:23	05:25 21:30	06:31 20:09	07:35 18:45	07:45 14:38-15:22/44 16:26	08:47 15:39
7	04:32 20:53-21:01/8 22:22	05:28 21:28	06:34 20:07	07:37 18:43	07:47 14:38-15:23/45 16:24	08:49 15:38
8	04:33 20:52-21:03/11 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 14:37-15:22/45 16:22	08:51 15:37
9	04:35 20:51-21:03/12 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 14:36-15:23/47 16:20	08:52 15:37
10	04:36 20:50-21:04/14 22:19	05:34 21:21	06:40 19:58	07:44 18:35	07:54 14:36-15:22/46 16:18	08:53 15:36
11	04:37 20:50-21:06/16 22:17	05:36 21:18	06:42 19:56	07:46 18:32	07:56 14:36-15:23/47 16:16	08:55 15:36
12	04:39 20:49-21:06/17 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 14:36-15:23/47 16:14	08:56 15:36
13	04:40 20:48-21:07/19 22:15	05:40 21:13	06:46 19:50	07:50 18:26	08:01 14:35-15:22/47 16:12	08:57 15:35
14	04:42 20:49-21:08/19 22:14	05:42 21:11	06:48 19:47	07:53 18:24	08:03 14:36-15:23/47 16:10	08:58 15:35
15	04:43 20:48-21:08/20 22:12	05:45 21:08	06:50 19:44	07:55 18:21	08:06 14:36-15:22/46 16:08	08:59 15:35
16	04:45 20:47-21:08/21 22:11	05:47 21:06	06:53 19:41	07:57 18:18	08:08 14:36-15:22/46 16:06	09:00 15:35
17	04:47 20:47-21:09/22 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 14:36-15:20/44 16:04	09:01 15:35
18	04:48 20:46-21:09/23 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 14:37-15:20/43 16:02	09:02 15:35
19	04:50 20:47-21:10/23 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:14 14:37-15:19/42 16:00	09:03 15:35
20	04:52 20:47-21:11/24 22:04	05:55 20:55	07:01 19:30	08:06 18:08	08:17 14:38-15:18/40 15:59	09:04 15:36
21	04:54 20:46-21:10/24 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:06-15:16/10 15:57	09:04 15:36
22	04:56 20:46-21:11/25 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 14:40-15:05/25 15:55	09:05 15:36
23	04:57 20:46-21:10/24 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 14:40-15:04/24 15:54	09:05 15:37
24	04:59 20:46-21:11/25 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 14:42-15:04/22 15:52	09:06 15:38
25	05:01 20:46-21:11/25 21:55	06:06 20:42	07:12 19:16	07:17 16:55	08:27 14:43-15:03/20 15:51	09:06 15:38
26	05:03 20:47-21:11/24 21:54	06:08 20:40	07:14 19:13	07:20 16:53	08:29 14:44-15:02/18 15:49	09:06 15:39
27	05:05 20:46-21:10/24 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 14:46-15:02/16 15:48	09:07 15:40
28	05:07 20:47-21:10/23 21:50	06:12 20:34	07:18 19:08	07:24 16:48	08:33 14:47-15:01/14 15:47	09:07 15:41
29	05:09 20:47-21:10/23 21:48	06:14 20:31	07:20 19:05	07:27 16:45	08:35 14:49-15:00/11 15:46	09:07 15:42
30	05:11 20:48-21:09/21 21:45	06:17 20:29	07:22 19:02	07:29 15:03-15:14/11 16:43	08:37 14:51-14:58/7 15:44	09:07 15:43
31	05:13 20:49-21:07/18 21:43	06:19 20:26		07:31 15:01-15:17/16 16:40		09:07 15:44
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	511	43	0	27	1028	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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 11:46-14:10/144 15:45 14:22-14:45/23	08:27 11:55-13:19/84 16:46 13:35-13:44/9	07:20 08:04-08:36/32 17:52 07:47-08:01/14	06:54 19:24-19:32/8 20:01	05:34 21:07 22:09	04:33 22:09
2	09:06 11:47-14:11/144 15:47 14:23-14:46/23	08:25 11:55-13:17/82 16:48 09:51-10:08/17	07:17 08:04-08:36/32 17:54 07:44-08:02/18	06:51 19:22-19:34/12 20:03	05:31 21:10 22:10	04:32 22:10
3	09:06 11:47-14:11/144 15:48 14:23-14:47/24	08:23 11:56-13:16/80 16:51 09:53-10:07/14	07:14 08:04-08:35/31 17:56 07:43-08:02/19	06:48 19:21-19:36/15 20:06	05:29 21:12 22:12	04:30 22:12
4	09:05 11:47-14:11/144 15:49 14:23-14:47/24	08:21 11:56-13:15/79 16:53 09:57-10:04/7	07:11 08:05-08:35/30 17:59 07:43-08:03/20	06:45 19:20-19:38/18 20:08	05:26 21:14 22:13	04:29 22:13
5	09:05 11:47-14:12/145 15:51 14:23-14:47/24	08:19 11:57-12:43/46 16:55 12:45-13:13/28	07:09 08:06-08:34/28 18:01 07:43-08:03/20	06:43 19:20-19:40/20 20:10	05:24 21:16 22:14	04:28 22:14
6	09:04 11:48-14:13/145 15:52 14:25-14:49/24	08:16 11:59-12:43/44 16:58 12:48-13:12/24	07:06 08:07-08:33/26 18:03 07:42-08:02/20	06:40 19:19-19:39/20 20:12	05:22 21:18 22:16	04:27 22:16
7	09:04 11:48-14:14/146 15:54 14:25-14:49/24	08:14 12:00-12:41/41 17:00 12:51-13:08/17	07:03 08:09-08:31/22 18:06 07:42-08:02/20	06:37 19:18-19:39/21 20:14	05:19 21:21 22:17	04:26 22:17
8	09:03 11:47-14:13/146 15:56 14:25-14:49/24	08:12 12:01-12:40/39 17:03 12:58-13:02/4	07:01 08:11-08:29/18 18:08 07:43-08:01/18	06:34 19:18-19:38/20 20:17	05:17 21:23 22:18	04:25 22:18
9	09:02 11:47-14:14/147 15:57 14:25-14:49/24	08:10 12:03-12:38/35 17:05	06:58 08:14-08:27/13 18:10 07:44-08:00/16	06:32 19:19-19:37/18 20:19	05:15 21:25 22:19	04:25 22:19
10	09:01 11:48-14:15/147 15:59 14:26-14:50/24	08:07 12:05-12:37/32 17:07	06:55 08:18-08:22/4 18:12 07:45-07:58/13	06:29 19:19-19:36/17 20:21	05:13 21:27 22:20	04:24 22:20
11	09:00 11:48-14:15/147 16:01 14:27-14:50/23	08:05 12:07-12:34/27 17:10	06:52 07:47-07:55/8 18:15	06:26 19:20-19:34/14 20:23	05:10 21:29 22:21	04:23 22:21
12	08:59 11:48-14:15/147 16:03 14:27-14:50/23	08:03 12:10-12:32/22 17:12	06:50 07:16-07:23/7 18:17	06:23 19:23-19:32/9 20:25	05:08 21:31 22:22	04:23 22:22
13	08:58 11:48-14:16/148 16:05 14:28-14:51/23	08:00 12:15-12:27/12 17:14	06:47 07:13-07:25/12 18:19	06:21 20:28 21:33	05:06 21:33 22:23	04:22 22:23
14	08:57 11:48-14:16/148 16:07 14:28-14:50/22	07:58 07:58 17:17	06:44 07:10-07:26/16 18:21	06:18 20:30 21:35	05:04 21:35 22:24	04:22 22:24
15	08:56 11:49-14:16/147 16:09 14:29-14:51/22	07:55 08:25-08:28/3 17:19	06:41 07:09-07:28/19 18:24	06:15 20:32 21:38	05:02 21:38 22:25	04:21 22:25
16	08:54 11:49-14:16/147 16:11 14:30-14:50/20	07:53 08:22-08:31/9 17:22	06:39 07:08-07:28/20 18:26	06:13 20:34 21:40	05:00 21:40 22:25	04:21 22:25
17	08:53 11:48-14:16/148 16:13 14:30-14:50/20	07:51 08:20-08:34/14 17:24	06:36 07:07-07:28/21 18:28	06:10 20:36 21:42	04:58 21:42 22:26	04:21 22:26
18	08:52 11:49-14:17/148 16:15 14:32-14:50/18	07:48 08:17-08:34/17 17:26	06:33 07:06-07:28/22 18:30	06:07 20:39 21:44	04:56 21:44 22:26	04:21 22:26
19	08:50 11:49-14:17/148 16:17 14:33-14:50/17	07:46 08:15-08:35/20 17:29	06:30 07:06-07:27/21 18:32	06:04 20:41 21:46	04:54 21:46 22:27	04:21 22:27
20	08:49 11:49-14:16/147 16:19 14:34-14:49/15	07:43 08:15-08:36/21 17:31	06:27 07:07-07:27/20 18:35	06:02 20:43 21:48	04:52 21:48 22:27	04:21 22:27
21	08:47 11:50-14:16/146 16:21 14:36-14:48/12	07:40 08:11-08:36/25 17:33	06:25 07:07-07:26/19 18:37	05:59 20:45 21:50	04:50 21:50 22:27	04:21 22:27
22	08:46 11:50-14:16/146 16:23 14:39-14:46/7	07:38 08:09-08:36/27 17:36	06:22 07:07-07:25/18 18:39	05:57 20:48 21:51	04:48 21:51 22:28	04:21 22:28
23	08:44 11:50-14:15/145 16:25 09:44-10:11/27	07:35 08:07-08:35/28 17:38	06:19 07:08-07:23/15 18:41	05:54 20:50 21:53	04:46 21:53 22:28	04:21 22:28
24	08:42 11:50-14:15/145 16:28 09:44-10:11/27	07:33 08:06-08:36/30 17:40	06:16 07:10-07:20/10 18:44	05:51 20:52 21:55	04:45 21:55 22:28	04:22 22:28
25	08:40 11:51-14:14/143 16:30 09:44-10:12/28	07:30 08:05-08:36/31 17:43	06:13 20:54 21:57	05:49 21:57 22:28	04:43 21:57 22:28	04:22 22:28
26	08:39 11:51-13:21/90 16:32 13:22-14:13/51	07:27 08:04-08:36/32 17:45	06:11 20:56 21:59	05:46 21:59 22:28	04:41 21:59 22:28	04:22 22:28
27	08:37 11:52-13:21/89 16:34 13:23-14:12/49	07:25 08:04-08:36/32 17:47	06:08 20:59 21:59	05:44 21:03 22:01	04:40 22:01 22:28	04:23 22:28
28	08:35 11:52-13:21/89 16:37 13:25-13:52/27	07:22 08:04-08:37/33 17:50	06:05 21:01 21:01	05:41 21:01 22:02	04:38 22:02 22:27	04:24 22:27
29	08:33 11:52-13:20/88 16:39 13:25-13:50/25	07:20 08:04-08:36/32 17:52	06:03 21:03 22:03	05:39 21:03 22:04	04:37 22:04 22:27	04:24 22:27
30	08:31 11:53-13:19/86 16:41 13:28-13:49/21	07:18 08:04-08:36/32 17:54	06:01 21:05 22:05	05:36 21:05 22:06	04:35 22:06 22:27	04:25 22:27
31	08:29 11:54-13:19/85 16:44 13:31-13:47/16	07:16 08:04-08:36/32 17:56	06:57 19:26-19:29/3 19:59	21:05 22:07	04:34 22:07 22:27	04:24 22:27
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	5422	1100	645	192	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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 21:41	06:21 19:20-19:34/14 20:23	07:24 07:54-08:03/9 18:59	07:34 11:34-12:07/33 16:38	08:39 11:30-13:57/147 09:27-09:45/18 15:43 14:09-14:33/24
2	04:27 22:26	05:17 21:39	06:23 19:18-19:35/17 20:21	07:27 08:28-08:31/3 18:57 07:56-07:58/2	07:36 11:32-12:08/36 16:36	08:41 11:31-13:58/147 09:28-09:44/16 15:42 14:09-14:33/24
3	04:28 22:25	05:19 21:37	06:25 19:17-19:35/18 20:18	07:29 08:24-08:35/11 18:54	07:38 11:31-12:10/39 16:33 12:26-12:34/8	08:43 11:32-13:58/146 09:30-09:44/14 15:41 14:09-14:33/24
4	04:29 22:24	05:21 21:35	06:27 19:16-19:36/20 20:15	07:31 08:52-09:03/11 18:51 08:22-08:37/15	07:41 11:29-12:11/42 16:31 12:20-12:38/18	08:44 11:32-13:58/146 09:31-09:43/12 15:40 14:10-14:34/24
5	04:30 22:24	05:23 21:32	06:29 19:15-19:36/21 20:12	07:33 08:49-09:05/16 18:48 08:20-08:37/17	07:43 11:28-12:12/44 16:29 12:17-12:42/25	08:46 11:33-13:59/146 09:33-09:42/9 15:39 14:10-14:34/24
6	04:31 22:23	05:25 21:30	06:31 19:15-19:35/20 20:10	07:35 08:46-09:07/21 18:46 08:19-08:38/19	07:45 11:27-12:13/46 16:26 12:15-12:43/28	08:48 11:33-13:58/145 09:36-09:40/4 15:39 14:10-14:34/24
7	04:32 22:22	05:28 21:28	06:34 19:15-19:35/20 20:07	07:37 08:43-09:08/25 18:43 08:19-08:39/20	07:47 11:27-12:45/78 16:24 09:26-09:34/8	08:49 11:34-13:59/145 15:38 14:10-14:34/24
8	04:33 22:21	05:30 21:25	06:36 19:15-19:33/18 20:04	07:40 08:42-09:09/27 18:40 08:18-08:38/20	07:50 11:26-12:46/80 16:22 09:24-09:38/14	08:51 11:35-13:59/144 15:37 14:11-14:35/24
9	04:35 22:20	05:32 21:23	06:38 19:15-19:30/15 20:01	07:42 08:40-09:09/29 18:37 08:17-08:38/21	07:52 11:25-12:48/83 16:20 09:21-09:39/18	08:52 11:36-14:00/144 15:37 14:12-14:36/24
10	04:36 22:19	05:34 21:21	06:40 19:15-19:27/12 19:58	07:44 08:39-09:30/30 18:35 08:17-08:37/20	07:54 11:25-12:50/85 09:21-09:41/20 16:18 13:05-13:15/10	08:54 11:36-14:00/144 15:36 14:12-14:36/24
11	04:37 22:18	05:36 21:18	06:42 19:16-19:25/9 19:56	07:46 08:39-09:10/31 18:32 08:18-08:37/19	07:57 11:24-12:50/86 09:19-09:41/22 16:16 13:01-13:18/17	08:55 11:37-14:01/144 15:36 14:13-14:36/23
12	04:39 22:16	05:38 21:16	06:44 19:18-19:22/4 19:53	07:48 08:38-09:10/32 18:29 08:19-08:36/17	07:59 11:25-12:51/86 09:19-09:43/24 16:14 12:59-13:21/22	08:56 11:37-14:01/144 15:35 14:13-14:36/23
13	04:40 22:15	05:40 21:13	06:46 19:50	07:51 08:37-09:09/32 18:26 08:21-08:34/13	08:01 11:24-12:52/88 09:18-09:43/25 16:12 12:57-13:22/25 13:29-13:39/10	08:57 11:38-14:01/143 15:35 14:13-14:36/23
14	04:42 22:14	05:42 21:11	06:48 19:47	07:53 08:37-09:10/33 18:24 08:24-08:33/9	08:03 11:24-12:53/89 09:18-09:44/26 16:10 12:56-13:24/28 13:27-13:43/16	08:59 11:39-14:02/143 15:35 14:15-14:38/23
15	04:43 22:12	05:45 21:08	06:50 19:44	07:55 08:37-09:09/32 18:21 08:26-08:29/3	08:06 11:24-12:53/89 09:19-09:45/26 16:08 12:55-13:44/49	09:00 11:40-14:02/142 15:35 14:15-14:38/23
16	04:45 22:11	05:47 21:06	06:53 19:42	07:57 08:37-09:08/31 18:18	08:08 11:24-12:54/90 09:18-09:45/27 16:06 12:55-13:46/51	09:01 11:40-14:02/142 15:35 14:15-14:38/23
17	04:47 22:09	05:49 21:03	06:55 19:39	07:59 08:38-09:08/30 18:16	08:10 11:25-13:48/143 16:04 09:18-09:46/28	09:02 11:41-14:03/142 15:35 14:16-14:39/23
18	04:48 22:08	05:51 21:01	06:57 19:36	08:02 08:38-09:07/29 18:13	08:12 11:24-13:49/145 16:02 09:18-09:45/27	09:02 11:41-14:03/142 15:35 14:17-14:39/22
19	04:50 22:06	05:53 20:58	06:59 07:58-08:07/9 19:33	08:04 08:38-09:07/29 18:11	08:15 11:25-13:50/145 16:00 09:19-09:46/27	09:03 11:41-14:03/142 15:35 14:16-14:39/23
20	04:52 22:05	05:55 20:56	07:01 07:55-08:09/14 19:30	08:06 08:40-09:07/27 18:08	08:17 11:25-13:51/146 09:19-09:46/27 15:59 14:14-14:21/7	09:04 11:42-14:04/142 15:36 14:17-14:39/22
21	04:54 22:03	05:57 20:53	07:03 07:53-08:10/17 19:27	08:08 08:42-09:06/24 18:05	08:19 11:26-13:52/146 09:19-09:46/27 15:57 14:12-14:24/12	09:05 11:43-14:05/142 15:36 14:18-14:40/22
22	04:56 22:01	06:00 20:50	07:05 07:52-08:11/19 19:25	08:11 08:45-09:06/21 18:03	08:21 11:26-13:52/146 09:20-09:46/26 15:55 14:10-14:25/15	09:05 11:43-14:05/142 15:36 14:18-14:40/22
23	04:57 21:59	06:02 20:48	07:07 07:51-08:11/20 19:22	08:13 08:45-09:05/20 18:00	08:23 11:25-13:53/148 09:21-09:47/26 15:54 14:09-14:26/17	09:06 11:44-14:06/142 15:37 14:19-14:41/22
24	04:59 21:58	06:04 20:45	07:10 07:50-08:11/21 19:19	08:15 08:48-09:04/16 17:58	08:25 11:26-13:54/148 09:21-09:46/25 15:52 14:09-14:27/18	09:06 11:44-14:06/142 15:38 14:19-14:42/23
25	05:01 21:56	06:06 20:42	07:12 07:49-08:10/21 19:16	07:18 07:50-08:03/13 16:55	08:27 11:27-13:54/147 09:21-09:46/25 15:51 14:08-14:28/20	09:06 11:44-14:06/142 15:38 14:20-14:42/22
26	05:03 21:54	06:08 20:40	07:14 07:49-08:10/21 19:13	07:20 07:53-08:01/8 16:53	08:29 11:28-13:55/147 09:23-09:46/23 15:49 14:09-14:30/21	09:07 11:45-14:07/142 15:39 14:20-14:42/22
27	05:05 21:52	06:10 20:37	07:16 07:50-08:10/20 19:11	07:22 16:50	08:31 11:28-13:55/147 09:23-09:46/23 15:48 14:08-14:30/22	09:07 11:45-14:07/142 15:40 14:20-14:43/23
28	05:07 21:50	06:12 20:34	07:18 07:50-08:09/19 19:08	07:24 16:48	08:33 11:28-13:56/148 09:24-09:45/21 15:47 14:08-14:30/22	09:07 11:45-14:08/143 15:41 14:21-14:44/23
29	05:09 21:48	06:14 20:32	07:20 07:50-08:08/18 19:05	07:27 11:43-11:57/14 16:45	08:35 11:29-13:56/147 09:24-09:45/21 15:46 14:08-14:31/23	09:07 11:46-14:09/143 15:42 14:21-14:44/23
30	05:11 21:46	06:17 20:29	07:22 07:52-08:06/14 19:02	07:29 11:38-12:01/23 16:43	08:37 11:29-13:56/147 09:26-09:45/19 15:44 14:08-14:31/23	09:07 11:45-14:08/143 15:43 14:21-14:44/23
31	05:13 21:44	06:19 19:21-19:31/10 20:26		07:31 11:36-12:04/28 16:40		09:07 11:46-14:09/143 15:44 14:22-14:45/23
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	10	401	850	4206	5235

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 10:36-11:40/64 12:20-12:37/17 15:45 11:49-12:15/26	08:27 16:46	07:19 17:52	06:54 20:01	05:34 21:07	04:33 22:09
2	09:06 10:37-11:41/64 12:22-12:38/16 15:47 11:50-12:16/26	08:25 16:48	07:17 17:54	06:51 20:03	05:31 21:10	04:32 22:10
3	09:06 10:37-11:41/64 12:22-12:37/15 15:48 11:51-12:16/25	08:23 16:51	07:14 17:56	06:48 20:05	05:29 21:12	04:30 22:12
4	09:05 10:38-11:41/63 12:24-12:37/13 15:49 11:51-12:15/24	08:21 16:53	07:11 17:59	06:45 20:08	05:26 21:14	04:29 22:13
5	09:05 10:38-11:42/64 12:25-12:36/11 15:51 11:52-12:15/23	08:19 16:55	07:09 18:01	06:43 20:10	05:24 21:16	04:28 22:14
6	09:04 10:39-11:43/64 12:28-12:36/8 15:52 11:54-12:16/22	08:16 16:58	07:06 18:03	06:40 20:12	05:22 21:18	04:27 22:16
7	09:03 10:40-11:43/63 15:54 11:55-12:16/21	08:14 17:00	07:03 18:06	06:37 20:14	05:19 21:21	04:26 22:17
8	09:03 10:39-11:42/63 15:56 11:55-12:15/20	08:12 17:03	07:01 18:08	06:34 20:17	05:17 21:23	04:25 22:18
9	09:02 10:40-11:43/63 15:57 11:57-12:15/18	08:10 17:05	06:58 18:10	06:32 20:19	05:15 21:25	04:25 22:19
10	09:01 10:40-11:43/63 15:59 11:58-12:14/16	08:07 17:07	06:55 18:12	06:29 20:21	05:13 21:27	04:24 22:20
11	09:00 10:41-11:44/63 16:01 12:00-12:14/14	08:05 08:35-08:41/6 17:10	06:52 18:15	06:26 20:23	05:10 21:29	04:23 22:21
12	08:59 10:41-11:43/62 16:03 12:02-12:11/9	08:03 08:33-08:44/11 17:12	06:50 18:17	06:23 20:25	05:08 21:31	04:23 22:22
13	08:58 10:42-11:43/61 16:05	08:00 08:30-08:45/15 17:14	06:47 18:19	06:21 20:28	05:06 21:33	04:22 22:23
14	08:57 10:42-11:43/61 16:07	07:58 08:27-08:45/18 17:17	06:44 18:21	06:18 20:30	05:04 21:35	04:22 22:24
15	08:56 10:43-11:43/60 16:09	07:55 08:27-08:47/20 17:19	06:41 17:46-17:54/8 18:24	06:15 20:32	05:02 21:37	04:21 22:25
16	08:54 10:43-11:42/59 16:10	07:53 08:26-08:47/21 17:22	06:38 17:44-17:57/13 18:26	06:12 20:34	05:00 21:40	04:21 22:25
17	08:53 10:43-11:42/59 16:13	07:50 08:27-08:48/21 17:24	06:36 17:42-17:59/17 18:28	06:10 20:36	04:58 21:42	04:21 22:26
18	08:52 10:45-11:18/33 16:15 11:19-11:42/23	07:48 08:26-08:47/21 17:26	06:33 17:40-18:01/21 18:30	06:07 20:39	04:56 21:44	04:21 22:26
19	08:50 10:45-11:17/32 16:17 11:20-11:41/21	07:45 08:26-08:47/21 17:29	06:30 17:39-18:03/24 18:32	06:04 20:41	04:54 21:46	04:21 22:27
20	08:49 10:46-11:17/31 16:19 11:22-11:39/17	07:43 08:27-08:47/20 17:31	06:27 17:37-18:05/28 18:35	06:02 20:43	04:52 21:48	04:21 22:27
21	08:47 10:47-11:17/30 16:21 11:24-11:38/14	07:40 08:27-08:46/19 17:33	06:25 17:37-18:06/29 18:37	05:59 20:45	04:50 21:49	04:21 22:27
22	08:46 10:48-11:16/28 16:23 11:28-11:34/6	07:38 08:27-08:45/18 17:36	06:22 17:37-18:07/30 18:39	05:57 20:47	04:48 21:51	04:21 22:28
23	08:44 10:49-11:16/27 16:25	07:35 08:28-08:43/15 17:38	06:19 17:37-18:07/30 18:41	05:54 20:50	04:46 21:53	04:21 22:28
24	08:42 10:50-11:15/25 16:28	07:33 08:30-08:42/12 17:40	06:16 17:36-18:07/31 18:43	05:51 20:52	04:45 21:55	04:22 22:28
25	08:40 10:51-11:14/23 16:30	07:30 08:34-08:38/4 17:43	06:13 17:36-18:06/30 18:46	05:49 20:54	04:43 21:57	04:22 22:28
26	08:39 10:53-11:13/20 16:32	07:27 17:45	06:11 17:36-18:05/29 18:48	05:46 20:56	04:41 21:59	04:23 22:28
27	08:37 10:55-11:12/17 16:34	07:25 17:47	06:08 17:38-18:05/27 18:50	05:44 20:59	04:40 22:00	04:23 22:27
28	08:35 10:58-11:09/11 16:37	07:22 17:50	06:05 17:39-18:03/24 18:52	05:41 21:01	04:38 22:02	04:24 22:27
29	08:33 16:39		07:02 18:40-19:01/21 19:54	05:39 21:03	04:37 22:04	04:24 22:27
30	08:31 16:41		06:59 18:43-18:59/16 19:57	05:36 21:05	04:35 22:06	04:25 22:27
31	08:29 16:44		06:57 19:59		04:34 22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1742	242	378	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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 21:41	06:21 20:23	07:24 18:59	07:34 16:38	08:39 15:43 10:23-11:26/63 11:43-11:56/13
2	04:27 22:26	05:17 21:39	06:23 20:21	07:27 18:57	07:36 16:36	08:41 15:42 10:23-11:26/63 11:42-11:57/15
3	04:28 22:25	05:19 21:37	06:25 20:18	07:29 18:54	07:38 16:33	08:43 15:41 10:24-11:27/63 11:41-11:59/18
4	04:29 22:24	05:21 21:35	06:27 20:15	07:31 18:51	07:40 16:31	08:44 15:40 10:24-11:27/63 11:40-12:00/20
5	04:30 22:23	05:23 21:32	06:29 20:12	07:33 18:48	07:43 16:29	08:46 15:39 10:25-11:28/63 11:40-12:01/21
6	04:31 22:23	05:25 21:30	06:31 20:10	07:35 18:46	07:45 16:26	08:48 15:39 10:24-11:28/64 12:13-12:21/8 11:39-12:01/22
7	04:32 22:22	05:28 21:28	06:34 20:07	07:37 18:43	07:47 16:24	08:49 15:38 10:25-11:29/64 12:12-12:23/11 11:39-12:02/23
8	04:33 22:21	05:30 21:25	06:36 20:04	07:40 18:40	07:50 16:22	08:51 15:37 10:26-11:29/63 12:12-12:25/13 11:40-12:04/24
9	04:35 22:20	05:32 21:23	06:38 20:01	07:42 18:37	07:52 16:20	08:52 15:37 10:27-11:30/63 12:12-12:26/14 11:40-12:05/25
10	04:36 22:19	05:34 21:21	06:40 19:58	07:44 18:35	07:54 16:18	08:53 15:36 10:26-11:30/64 12:11-12:27/16 11:40-12:05/25
11	04:37 22:18	05:36 21:18	06:42 19:56	07:46 18:32	07:57 16:16	08:55 15:36 10:28-11:31/63 12:11-12:29/18 11:40-12:06/26
12	04:39 22:16	05:38 21:16	06:44 19:53	07:48 18:29	07:59 16:14	08:56 15:35 10:28-11:31/63 12:11-12:29/18 11:40-12:06/26
13	04:40 22:15	05:40 21:13	06:46 19:50	07:51 18:26	08:01 16:12	08:57 15:35 10:28-11:31/63 12:10-12:30/20 11:40-12:07/27
14	04:42 22:14	05:42 21:11	06:48 19:47	07:53 18:24	08:03 16:10	08:58 15:35 10:29-11:33/64 12:11-12:31/20 11:41-12:08/27
15	04:43 22:12	05:45 21:08	06:50 19:44	07:55 18:21	08:06 16:08	09:00 15:35 10:29-11:33/64 12:11-12:32/21 11:41-12:09/28
16	04:45 22:11	05:47 21:06	06:53 19:42	07:57 18:18	08:08 16:06	09:01 15:35 10:30-11:33/63 12:12-12:32/20 11:41-12:09/28
17	04:47 22:09	05:49 21:03	06:55 19:39	07:59 18:16	08:10 16:04	09:01 15:35 10:30-11:34/64 12:12-12:33/21 11:42-12:10/28
18	04:48 22:08	05:51 21:01	06:57 19:36	08:02 18:13	08:12 16:02	09:02 15:35 10:31-11:35/64 12:12-12:34/22 11:42-12:10/28
19	04:50 22:06	05:53 20:58	06:59 19:33	08:04 18:10	08:15 16:00	09:03 15:35 10:31-11:34/63 12:12-12:33/21 11:42-12:10/28
20	04:52 22:05	05:55 20:56	07:01 19:30	08:06 18:08	08:17 15:59	09:04 15:36 10:32-11:35/63 12:13-12:34/21 11:43-12:11/28
21	04:54 22:03	05:57 20:53	07:03 19:27	08:08 18:05	08:19 15:57	09:05 15:36 10:33-11:36/63 12:13-12:35/22 11:43-12:12/29
22	04:56 22:01	06:00 20:50	07:05 19:25	08:11 18:03	08:21 15:55	09:05 15:36 10:33-11:36/63 12:13-12:35/22 11:43-12:12/29
23	04:57 21:59	06:02 20:48	07:07 19:22	08:13 18:00	08:23 15:54	09:06 15:37 10:34-11:37/63 12:14-12:36/22 11:45-12:13/28
24	04:59 21:57	06:04 20:45	07:09 19:19	08:15 17:58	08:25 15:52	09:06 15:38 10:34-11:37/63 12:15-12:36/21 11:45-12:13/28
25	05:01 21:56	06:06 20:42	07:12 19:16	07:17 16:55	08:27 15:51	09:06 15:38 10:34-11:37/63 12:15-12:37/22 11:45-12:13/28
26	05:03 21:54	06:08 20:40	07:14 19:13	07:20 16:53	08:29 15:49	09:07 15:39 10:34-11:38/64 12:16-12:37/21 11:46-12:14/28
27	05:05 21:52	06:10 20:37	07:16 19:11	07:22 16:50	08:31 15:48	09:07 15:40 10:35-11:38/63 12:16-12:37/21 11:46-12:14/28
28	05:07 21:50	06:12 20:34	07:18 19:08	07:24 16:48	08:33 15:47	09:07 15:41 10:35-11:39/64 12:17-12:37/20 11:47-12:14/27
29	05:09 21:48	06:14 20:32	07:20 19:05	07:27 16:45	08:35 15:46	09:07 15:42 10:36-11:39/63 12:18-12:38/20 11:48-12:15/27
30	05:11 21:46	06:17 20:29	07:22 19:02	07:29 16:43	08:37 15:44	09:07 15:43 10:36-11:39/63 12:18-12:37/19 11:47-12:15/28
31	05:13 21:43	06:19 20:26		07:31 16:40	08:39 15:43	09:07 15:44 10:36-11:40/64 12:19-12:38/19 11:49-12:15/26
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	382	244	727	3242

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

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

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 11:16-11:32/16 15:45 14:21-14:43/22	08:27 09:18-09:46/28 15:15-15:32/17 16:46 09:01-09:14/13 09:49-10:12/23	07:19 08:33-08:40/7 17:52	06:54 20:01	05:34 18:45-19:47/62 21:07	04:33 19:10-19:21/11 22:09
2	09:06 11:18-11:33/15 15:47 14:22-14:44/22	08:25 09:18-09:46/28 15:17-15:31/14 16:48 08:58-09:15/17 09:49-10:11/22	07:17 17:54	06:51 20:03	05:31 18:44-19:45/61 21:10	04:31 22:10
3	09:06 11:18-11:32/14 15:48 14:23-14:44/21	08:23 09:18-09:46/28 15:19-15:30/11 16:51 08:58-09:17/19 09:51-10:10/19	07:14 17:56	06:48 20:05	05:29 18:45-19:45/60 21:12	04:30 22:12
4	09:05 11:20-11:32/12 15:49 14:23-14:44/21	08:21 09:18-09:46/28 09:52-10:08/16 16:53 08:56-09:17/21	07:11 17:59	06:45 20:08	05:26 18:45-19:45/60 21:14	04:29 22:13
5	09:05 11:21-11:31/10 15:51 14:23-14:44/21	08:19 08:52-09:46/54 16:55 09:55-10:06/11	07:09 18:01	06:43 20:10	05:24 18:45-19:45/60 21:16	04:28 22:14
6	09:04 11:24-11:31/7 15:52 14:24-14:45/21	08:16 08:50-09:47/57 16:58	07:06 18:03	06:40 20:12	05:22 18:44-19:43/59 21:18	04:27 22:16
7	09:03 14:24-14:45/21 15:54 09:50-09:56/6	08:14 08:48-09:46/58 17:00	07:03 18:05	06:37 20:14	05:19 18:45-19:43/58 21:20	04:26 22:17
8	09:03 14:25-14:45/20 15:56 09:47-09:58/11	08:12 08:47-09:46/59 17:02	07:00 18:08	06:34 20:16	05:17 18:45-19:42/57 21:23	04:25 22:18
9	09:02 14:26-14:45/19 15:57 09:46-10:00/14	08:10 09:21-09:44/23 17:05 08:46-09:20/34	06:58 18:10	06:31 20:19	05:15 18:45-19:41/56 21:25	04:25 22:19
10	09:01 14:27-14:46/19 15:59 09:46-10:01/15	08:07 09:22-09:44/22 17:07 08:46-09:21/35	06:55 18:12	06:29 20:21	05:12 18:46-19:41/55 21:27	04:24 22:20
11	09:00 14:28-14:46/18 09:46-10:03/17 16:01 15:15-15:18/3	08:05 09:23-09:42/19 17:10 08:45-09:21/36	06:52 18:15	06:26 19:21-19:31/10 20:23	05:10 18:46-19:40/54 21:29	04:23 22:21
12	08:59 14:28-14:45/17 09:45-10:04/19 16:03 15:13-15:19/6	08:03 08:35-08:42/7 08:44-09:21/37 17:12 09:24-09:40/16	06:49 18:17	06:23 19:10-19:36/26 20:25	05:08 18:47-19:39/52 21:31	04:23 22:22
13	08:58 14:30-14:46/16 09:45-10:05/20 16:05 15:12-15:22/10	08:00 08:31-09:20/49 17:14 09:27-09:38/11	06:47 18:19	06:21 19:06-19:38/32 20:27	05:06 18:47-19:39/52 21:33	04:22 22:23
14	08:57 14:31-14:45/14 09:44-10:06/22 16:06 15:11-15:24/13	07:58 08:29-09:19/50 17:17	06:44 18:21	06:18 19:02-19:40/38 20:30	05:04 18:48-19:38/50 21:35	04:22 22:24
15	08:56 14:33-14:45/12 09:44-10:07/23 16:08 15:11-15:26/15	07:55 08:28-09:19/51 17:19	06:41 18:23	06:15 19:00-19:42/42 20:32	05:02 18:49-19:39/50 21:37	04:21 22:25
16	08:54 14:34-14:43/9 09:44-10:08/24 16:10 15:10-15:28/18	07:53 08:27-09:17/50 17:21	06:38 18:26	06:12 18:58-19:43/45 20:34	05:00 18:50-19:38/48 21:39	04:21 22:25
17	08:53 14:36-14:41/5 09:43-10:09/26 16:12 15:10-15:30/20	07:50 08:25-09:16/51 17:24	06:36 18:28	06:10 18:56-19:44/48 20:36	04:58 18:50-19:37/47 21:42	04:21 22:26
18	08:52 15:09-15:30/21 16:15 09:44-10:10/26	07:48 08:25-09:14/49 17:26	06:33 18:30	06:07 18:54-19:45/51 20:39	04:56 18:51-19:36/45 21:44	04:21 22:26
19	08:50 15:10-15:32/22 16:17 09:44-10:11/27	07:45 08:25-09:09/44 17:29	06:30 18:32	06:04 18:53-19:46/53 20:41	04:54 18:52-19:36/44 21:46	04:21 22:27
20	08:49 15:10-15:33/23 16:19 09:43-10:11/28	07:43 08:24-09:08/44 17:31	06:27 18:35	06:02 18:52-19:46/54 20:43	04:52 18:53-19:35/42 21:47	04:21 22:27
21	08:47 15:10-15:33/23 16:21 09:43-10:11/28	07:40 08:25-09:07/42 17:33	06:24 18:37	05:59 18:50-19:46/56 20:45	04:50 18:53-19:34/41 21:49	04:21 22:27
22	08:45 09:25-09:34/9 09:43-10:12/29 16:23 15:10-15:34/24	07:38 08:24-09:05/41 17:36	06:22 18:39	05:56 18:50-19:47/57 20:47	04:48 18:55-19:34/39 21:51	04:21 22:28
23	08:44 09:23-09:37/14 09:44-10:12/28 16:25 15:10-15:34/24	07:35 08:24-08:49/25 17:38 08:51-09:02/11	06:19 18:41	05:54 18:49-19:47/58 20:50	04:46 18:55-19:32/37 21:53	04:21 22:28
24	08:42 09:21-09:38/17 09:44-10:13/29 16:27 15:10-15:34/24	07:33 08:25-08:50/25 17:40	06:16 18:43	05:51 18:48-19:47/59 20:52	04:45 18:57-19:32/35 21:55	04:22 22:28
25	08:40 09:21-09:40/19 09:44-10:13/29 16:30 15:10-15:35/25	07:30 08:26-08:48/22 17:43	06:13 18:46	05:49 18:48-19:47/59 20:54	04:43 18:59-19:32/33 21:57	04:22 22:28
26	08:39 09:20-09:41/21 09:45-10:13/28 16:32 15:11-15:35/24	07:27 08:26-08:47/21 17:45	06:10 18:48	05:46 18:46-19:47/61 20:56	04:41 18:59-19:30/31 21:59	04:22 22:28
27	08:37 09:19-09:43/24 09:45-10:14/29 16:34 15:11-15:35/24	07:25 08:27-08:45/18 17:47	06:08 18:50	05:44 18:46-19:47/61 20:58	04:40 19:01-19:29/28 22:00	04:23 22:27
28	08:35 09:19-09:44/25 09:46-10:14/28 16:37 15:11-15:34/23	07:22 08:30-08:44/14 17:49	06:05 18:52	05:41 18:45-19:46/61 21:01	04:38 19:03-19:28/25 22:02	04:24 22:27
29	08:33 09:18-09:44/26 09:45-10:13/28 16:39 15:12-15:34/22	07:02 17:54	07:02 19:54	05:39 18:45-19:46/61 21:03	04:37 19:04-19:26/22 22:04	04:24 22:27
30	08:31 09:18-09:45/27 09:46-10:13/27 16:41 15:13-15:34/21	06:59 17:57	06:59 19:57	05:36 18:45-19:47/62 21:05	04:35 19:06-19:25/19 22:05	04:25 22:26
31	08:29 09:18-09:45/27 15:14-15:34/20 16:44 09:03-09:10/7 09:47-10:13/26	06:56 17:59	06:56 19:59	05:34 19:08-19:23/15 22:07	04:34 19:08-19:23/15 22:07	04:25 22:26
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1580	1390	7	994	1397	11

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

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

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 18:57-19:50/53 21:41	06:21 19:21-19:31/10 20:23	07:24 18:59	07:34 08:15-09:14/59 16:38	08:39 14:09-14:27/18 09:28-09:45/17 15:43 14:56-14:59/3
2	04:27 22:25	05:17 18:56-19:50/54 21:39	06:23 20:21	07:27 18:57	07:36 08:16-09:14/58 16:36	08:41 14:10-14:29/19 15:42 09:29-09:45/16
3	04:28 22:25	05:19 18:56-19:51/55 21:37	06:25 20:18	07:29 18:54	07:38 08:17-09:15/58 16:33	08:42 14:10-14:30/20 15:41 09:30-09:44/14
4	04:29 22:24	05:21 18:56-19:52/56 21:35	06:27 20:15	07:31 18:51	07:40 08:18-09:15/57 16:31	08:44 14:10-14:30/20 15:40 09:32-09:43/11
5	04:30 22:23	05:23 18:55-19:53/58 21:32	06:29 20:12	07:33 18:48	07:43 08:20-09:16/56 16:29	08:46 14:10-14:30/20 15:39 09:34-09:42/8
6	04:31 22:23	05:25 18:55-19:53/58 21:30	06:31 20:09	07:35 18:45	07:45 08:22-09:16/54 16:26 09:24-09:36/12	08:48 11:09-11:15/6 15:39 14:10-14:31/21
7	04:32 22:22	05:27 18:55-19:54/59 21:28	06:34 20:07	07:37 18:43	07:47 08:27-09:17/50 09:22-09:39/17 16:24 14:53-14:57/4	08:49 11:08-11:18/10 15:38 14:11-14:31/20
8	04:33 22:21	05:30 18:54-19:54/60 21:25	06:36 20:04	07:40 18:40	07:50 08:48-09:16/28 14:49-15:00/11 16:22 08:29-08:47/18 09:20-09:40/20	08:51 11:08-11:20/12 15:37 14:11-14:32/21
9	04:35 22:20	05:32 18:54-19:54/60 21:23	06:38 20:01	07:42 18:37	07:52 08:48-09:17/29 14:47-15:02/15 16:20 08:29-08:45/16 09:20-09:42/22	08:52 11:08-11:21/13 15:37 14:11-14:32/21
10	04:36 22:19	05:34 18:54-19:55/61 21:21	06:40 19:58	07:44 18:34	07:54 08:49-09:17/28 14:47-15:04/17 16:18 08:32-08:44/12 09:19-09:43/24	08:53 11:07-11:22/15 15:36 14:12-14:33/21
11	04:37 19:20-19:27/7 22:17	05:36 18:54-19:55/61 21:18	06:42 19:56	07:46 18:32	07:57 08:49-09:16/27 14:45-15:05/20 16:16 08:34-08:41/7 09:18-09:43/25	08:55 11:07-11:23/16 15:36 14:13-14:34/21
12	04:39 19:17-19:31/14 22:16	05:38 18:54-19:55/61 21:16	06:44 19:53	07:48 18:29	07:59 08:50-09:16/26 09:18-09:45/27 16:14 14:45-15:06/21	08:56 11:07-11:24/17 15:35 14:13-14:34/21
13	04:40 19:15-19:33/18 22:15	05:40 18:54-19:55/61 21:13	06:46 19:50	07:50 09:04-09:15/11 18:26	08:01 08:50-09:15/25 09:17-09:45/28 16:12 14:44-15:06/22	08:57 11:07-11:24/17 15:35 14:13-14:34/21
14	04:42 19:13-19:34/21 22:14	05:42 18:53-19:54/61 21:11	06:48 19:47	07:53 09:01-09:17/16 18:24	08:03 08:51-09:15/24 09:18-09:46/28 16:10 14:44-15:07/23	08:58 11:08-11:26/18 15:35 14:13-14:34/21
15	04:43 19:12-19:36/24 22:12	05:44 18:53-19:54/61 21:08	06:50 19:44	07:55 09:00-09:19/19 18:21	08:06 08:51-09:14/23 09:17-09:45/28 16:08 14:43-15:07/24	09:00 11:08-11:26/18 15:35 14:14-14:36/22
16	04:45 19:10-19:37/27 22:11	05:47 18:53-19:54/61 21:06	06:53 19:41	07:57 08:58-09:19/21 18:18	08:08 08:53-09:14/21 09:17-09:46/29 16:06 14:44-15:08/24	09:01 11:08-11:27/19 15:35 14:15-14:36/21
17	04:47 19:10-19:39/29 22:09	05:49 18:53-19:53/60 21:03	06:55 19:39	07:59 08:56-09:20/24 18:16	08:10 08:55-09:14/19 09:18-09:47/29 16:04 14:43-15:08/25	09:01 11:08-11:28/20 15:35 14:15-14:36/21
18	04:48 19:08-19:40/32 22:08	05:51 18:53-19:53/60 21:01	06:57 19:36	08:02 08:56-09:21/25 18:13 09:25-09:31/6	08:12 08:55-09:12/17 09:18-09:47/29 16:02 14:44-15:08/24	09:02 11:09-11:28/19 15:35 14:16-14:37/21
19	04:50 19:07-19:41/34 22:06	05:53 18:53-19:52/59 20:58	06:59 19:33	08:04 08:55-09:34/39 18:10	08:14 08:58-09:12/14 09:19-09:47/28 16:00 14:44-15:08/24	09:03 11:08-11:28/20 15:35 14:15-14:37/22
20	04:52 19:07-19:43/36 22:04	05:55 18:54-19:52/58 20:55	07:01 19:30	08:06 08:55-09:37/42 18:08	08:17 09:00-09:09/9 09:18-09:47/29 15:59 14:45-15:09/24	09:04 11:09-11:29/20 15:35 14:16-14:38/22
21	04:54 19:05-19:43/38 22:03	05:57 18:54-19:51/57 20:53	07:03 19:27	08:08 08:55-09:38/43 18:05	08:19 14:45-15:08/23 15:57 09:19-09:48/29	09:04 11:10-11:30/20 15:36 14:17-14:38/21
22	04:55 19:05-19:44/39 22:01	05:59 18:55-19:50/55 20:50	07:05 19:25	08:11 08:55-09:39/44 18:03	08:21 14:46-15:09/23 15:55 09:19-09:47/28	09:05 11:10-11:30/20 15:36 14:17-14:38/21
23	04:57 19:03-19:45/42 21:59	06:02 18:56-19:49/53 20:48	07:07 19:22	08:13 08:55-09:41/46 18:00	08:23 14:46-15:08/22 15:54 09:20-09:47/27	09:06 11:11-11:31/20 15:37 14:17-14:38/21
24	04:59 19:03-19:46/43 21:57	06:04 18:56-19:48/52 20:45	07:09 19:19	08:15 08:55-09:44/49 17:58	08:25 14:47-15:09/22 15:52 09:21-09:47/26	09:06 11:11-11:31/20 15:37 14:18-14:40/22
25	05:01 19:02-19:47/45 21:56	06:06 18:57-19:47/50 20:42	07:12 19:16	07:17 07:56-08:46/50 16:55	08:27 14:15-14:19/4 09:21-09:47/26 15:51 14:48-15:08/20	09:06 11:11-11:31/20 15:38 14:19-14:40/21
26	05:03 19:02-19:48/46 21:54	06:08 18:58-19:46/48 20:40	07:14 19:13	07:20 07:56-08:47/51 16:52	08:29 14:12-14:21/9 09:23-09:47/24 15:49 14:49-15:07/18	09:07 11:12-11:31/19 15:39 14:19-14:40/21
27	05:05 19:00-19:47/47 21:52	06:10 19:00-19:44/44 20:37	07:16 19:11	07:22 07:58-08:48/50 16:50	08:31 14:12-14:24/12 09:23-09:47/24 15:48 14:50-15:06/16	09:07 11:12-11:32/20 15:40 14:19-14:41/22
28	05:07 19:00-19:48/48 21:50	06:12 19:01-19:43/42 20:34	07:18 19:08	07:24 07:59-08:49/50 16:48	08:33 14:11-14:25/14 09:24-09:46/22 15:47 14:51-15:04/13	09:07 11:13-11:32/19 15:41 14:20-14:41/21
29	05:09 18:59-19:49/50 21:48	06:14 19:03-19:41/38 20:31	07:20 19:05	07:27 08:01-08:13/12 08:14-08:50/36 16:45 08:56-09:08/12	08:35 14:10-14:26/16 09:25-09:45/20 15:45 14:52-15:02/10	09:07 11:14-11:33/19 15:42 14:21-14:42/21
30	05:11 18:59-19:50/51 21:46	06:17 19:06-19:38/32 20:29	07:22 19:02	07:29 08:04-08:09/5 08:13-08:49/36 16:43 08:53-09:10/17	08:37 14:10-14:27/17 09:26-09:45/19 15:44 14:54-15:00/6	09:07 11:14-11:32/18 15:43 14:20-14:42/22
31	05:13 18:58-19:50/52 21:43	06:19 19:10-19:35/25 20:26		07:31 08:52-09:12/20 16:40 08:14-08:50/36		09:07 11:15-11:32/17 15:44 14:21-14:43/22
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	743	1673	10	760	1878	1170

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
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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

0	1	Sum
4 076	4 076	8 152

January		February		March		April		May		June	
1	09:06 10:22-11:04/42	08:27 15:19-15:44/25	07:19 07:47-08:50/63	06:54 07:51-08:06/15	05:34 04:33						
	15:45 09:50-10:20/30	16:46 09:27-09:41/14	17:52 16:29-16:40/11	20:01 21:07	22:09						
2	09:06 10:23-11:05/42	08:25 15:21-15:43/22	07:17 07:44-08:49/65	06:51 07:54-08:02/8	05:31 04:31						
	15:47 09:49-10:21/32	16:48 09:28-09:39/11	17:54 16:29-16:40/11	20:03 21:10	22:10						
3	09:06 10:24-11:05/41	08:23 15:22-15:43/21	07:14 07:41-08:48/67	06:48 05:29	04:30						
	15:48 09:48-10:21/33	16:51 09:33-09:35/2	17:56 16:29-16:40/11	20:05 21:12	22:12						
4	09:05 10:24-11:05/41	08:21 15:23-15:41/18	07:11 07:38-08:47/69	06:45 05:26	04:29						
	15:49 09:47-10:21/34	16:53 15:23-15:41/18	17:59 16:29-16:40/11	20:08 21:14	22:13						
5	09:05 10:24-11:06/42	08:19 15:26-15:39/13	07:09 07:36-08:47/71	06:43 05:24	04:28						
	15:51 09:47-10:22/35	16:55 15:26-15:39/13	18:01 16:29-16:40/11	20:10 21:16	22:14						
6	09:04 10:25-11:07/42	08:16 15:29-15:35/6	07:06 07:33-08:45/72	06:40 05:22	04:27						
	15:52 09:46-10:23/37	16:58 15:29-15:35/6	18:03 16:29-16:40/11	20:12 21:18	22:16						
7	09:03 10:26-11:08/42	08:14 15:29-15:35/6	07:03 07:30-08:43/73	06:37 05:19	04:26						
	15:54 09:45-10:23/38	17:00 15:29-15:35/6	18:05 16:29-16:40/11	20:14 21:20	22:17						
8	09:03 10:25-11:07/42	08:12 15:29-15:35/6	07:01 07:27-08:15/48	06:34 05:17	04:25						
	15:56 09:43-10:23/40	17:02 15:29-15:35/6	18:08 08:17-08:41/24	20:16 21:23	22:18						
9	09:02 10:26-11:08/42	08:10 16:28-16:31/3	06:58 07:24-08:15/51	06:31 05:15	04:25						
	15:57 09:42-10:23/41	17:05 16:28-16:31/3	18:10 08:19-08:37/18	20:19 21:25	22:19						
10	09:01 10:27-11:08/41	08:07 16:25-16:33/8	06:55 07:22-08:15/53	06:29 05:12	04:24						
	15:59 09:42-10:24/42	17:07 16:25-16:33/8	18:12 08:24-08:34/10	20:21 21:27	22:20						
11	09:00 10:27-11:09/42	08:05 16:24-16:36/12	06:52 07:19-08:14/55	06:26 05:10	04:23						
	16:01 09:42-10:24/42	17:10 16:24-16:36/12	18:15 16:24-16:36/12	20:23 21:29	22:21						
12	08:59 10:27-11:09/42 15:17-15:19/2	08:03 16:23-16:38/15	06:49 07:16-08:13/57	06:23 05:08	04:23						
	16:03 09:42-10:24/42	17:12 16:23-16:38/15	18:17 16:23-16:38/15	20:25 21:31	22:22						
13	08:58 10:28-11:09/41 15:17-15:22/5	08:00 16:22-16:41/19	06:47 07:13-08:12/59	06:21 05:06	04:22						
	16:04 09:43-10:24/41	17:14 16:22-16:41/19	18:19 16:22-16:41/19	20:28 21:33	22:23						
14	08:57 10:28-11:09/41 15:16-15:23/7	07:58 16:21-16:43/22	06:44 07:10-08:11/61	06:18 05:04	04:22						
	16:06 09:43-10:24/41 09:35-09:38/3	17:17 08:27-08:42/15	18:21 16:21-16:43/22	20:30 21:35	22:24						
15	08:56 10:29-11:10/41 15:17-15:26/9	07:55 16:21-16:47/26	06:41 07:08-08:09/61	06:15 05:02	04:21						
	16:08 09:44-10:25/41 09:34-09:39/5	17:19 08:25-08:45/20	18:23 16:21-16:47/26	20:32 21:37	22:25						
16	08:54 10:30-11:10/40 15:16-15:28/12	07:53 16:20-16:49/29	06:38 07:05-08:08/63	06:12 05:00	04:21						
	16:10 09:44-10:24/40 09:32-09:40/8	17:21 08:22-08:46/24	18:26 16:20-16:49/29	20:34 21:40	22:25						
17	08:53 10:30-11:09/39 15:15-15:30/15	07:50 16:19-16:51/32	06:36 07:02-08:05/63	06:10 04:58	04:21						
	16:12 09:44-10:24/40 09:30-09:40/10	17:24 08:19-08:47/28	18:28 16:20-16:51/31	20:36 21:42	22:26						
18	08:52 10:31-11:10/39 15:16-15:34/18	07:48 16:20-16:51/31	06:33 06:59-08:02/63	06:07 04:56	04:21						
	16:14 09:46-10:24/38 09:29-09:42/13	17:26 08:17-08:49/32	18:30 16:20-16:51/31	20:39 21:44	22:26						
19	08:50 10:32-11:10/38 15:16-15:36/20	07:45 16:19-16:51/32	06:30 06:56-07:46/50	06:04 04:54	04:21						
	16:17 09:46-10:23/37 09:27-09:42/15	17:28 08:15-08:49/34	18:32 07:51-07:57/6	20:41 21:46	22:27						
20	08:49 10:33-11:09/36 15:15-15:38/23	07:43 16:19-16:51/32	06:27 06:53-07:44/51	06:02 04:52	04:21						
	16:19 09:47-10:22/35 09:25-09:43/18	17:31 08:14-08:49/35	18:35 16:20-16:51/31	20:43 21:48	22:27						
21	08:47 10:33-11:09/36 15:15-15:41/26	07:40 16:20-16:51/31	06:24 06:51-07:41/50	05:59 04:50	04:21						
	16:21 09:47-10:21/34 09:23-09:43/20	17:33 08:14-08:51/37	18:37 16:20-16:51/31	20:45 21:49	22:27						
22	08:46 10:34-11:09/35 15:15-15:43/28	07:38 16:20-16:50/30	06:22 06:48-07:34/46	05:56 04:48	04:21						
	16:23 09:48-10:20/32 09:21-09:43/22	17:36 08:13-08:51/38	18:39 16:20-16:50/30	20:47 21:51	22:28						
23	08:44 10:35-11:08/33 15:15-15:44/29 09:19-09:44/25	07:35 16:20-16:50/30	06:19 06:47-07:32/45	05:54 04:46	04:21						
	16:25 09:49-10:10/21 10:11-10:17/6	17:38 08:12-08:51/39	18:41 16:20-16:50/30	20:50 21:53	22:28						
24	08:42 10:36-11:08/32 15:16-15:44/28	07:33 08:01-08:02/1 08:12-08:52/40	06:16 06:46-07:31/45	05:51 04:45	04:21						
	16:27 09:50-10:10/20 09:20-09:44/24	17:40 16:20-16:49/29	18:43 16:20-16:49/29	20:52 21:55	22:28						
25	08:40 10:37-11:07/30 15:16-15:45/29	07:30 07:58-08:07/9 08:12-08:51/39	06:13 06:46-07:30/44	05:49 04:43	04:22						
	16:30 09:52-10:09/17 09:20-09:44/24	17:43 16:22-16:48/26	18:46 16:22-16:48/26	20:54 21:57	22:28						
26	08:39 10:39-11:06/27 15:16-15:45/29	07:27 07:55-08:09/14 08:11-08:51/40	06:10 06:46-07:28/42	05:46 04:41	04:22						
	16:32 09:54-10:08/14 09:21-09:44/23	17:45 16:22-16:47/25	18:48 16:22-16:47/25	20:56 21:59	22:28						
27	08:37 10:41-11:05/24 15:17-15:45/28	07:25 07:52-08:51/59	06:08 06:47-07:26/39	05:44 04:40	04:23						
	16:34 09:56-10:06/10 09:21-09:44/23	17:47 16:24-16:45/21	18:50 16:24-16:45/21	20:59 22:01	22:28						
28	08:35 10:43-11:04/21 09:22-09:44/22	07:22 07:50-08:51/61	06:05 06:47-07:23/36	05:41 04:38	04:23						
	16:37 15:16-15:45/29	17:49 16:25-16:43/18	18:52 16:25-16:43/18	21:01 22:02	22:27						
29	08:33 10:45-11:01/16 09:22-09:43/21		07:02 07:47-08:18/31	05:39 04:37	04:24						
	16:39 15:17-15:45/28		19:54 16:25-16:43/18	21:03 22:04	22:27						
30	08:31 10:49-10:57/8 09:23-09:43/20		06:59 07:48-08:10/22	05:36 04:35	04:25						
	16:41 15:18-15:45/27		19:57 16:25-16:43/18	21:05 22:06	22:27						
31	08:29 15:19-15:45/26		06:56 07:50-08:09/19	21:05 04:34							
	16:43 09:25-09:42/17		19:59 16:25-16:43/18	22:07 22:07							
Potential sun hours	227	262	365	429	515						
Sum of minutes with flicker	2722	1177	1703	23	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

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

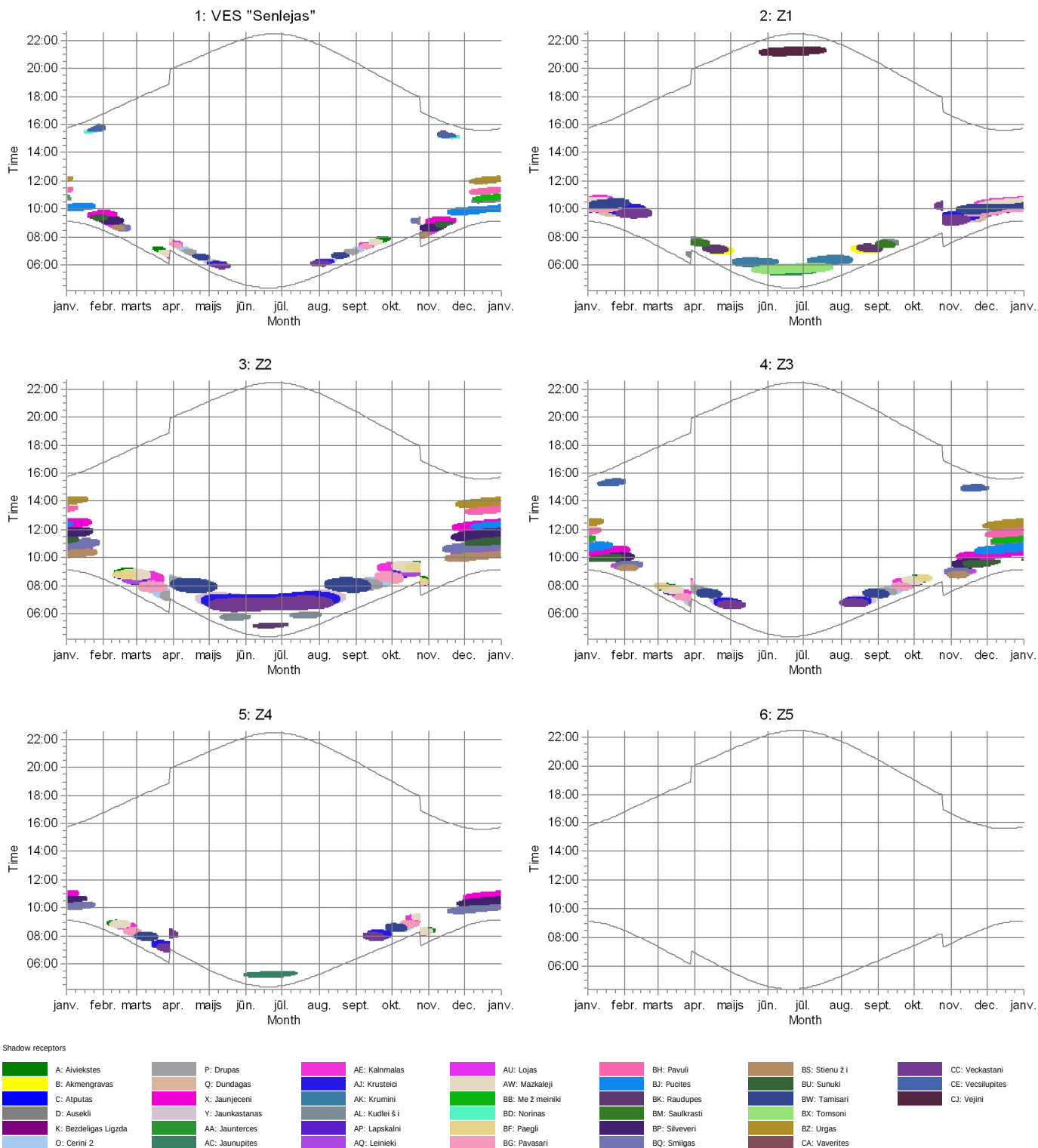
0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 21:41	06:21 20:23	07:24 07:54-08:52/58 18:59	07:34 15:55-16:02/7 16:38	08:39 10:10-10:51/41 15:43 09:25-10:06/41
2	04:27 22:26	05:17 21:39	06:23 20:21	07:27 07:56-08:52/56 18:57	07:36 15:58-16:00/2 16:36	08:41 10:10-10:51/41 15:42 09:25-10:07/42
3	04:28 22:25	05:19 21:37	06:25 20:18	07:29 07:58-08:52/54 18:54	07:38 16:33	08:43 10:10-10:52/42 15:41 09:26-10:07/41
4	04:29 22:24	05:21 21:35	06:27 20:15	07:31 08:01-08:53/52 18:51 08:59-09:14/15	07:40 16:31	08:44 10:11-10:52/41 15:40 09:28-10:08/40
5	04:30 22:23	05:23 21:32	06:29 20:12	07:33 08:03-08:52/49 18:48 08:55-09:17/22	07:43 14:59-15:07/8 16:29	08:46 10:11-10:53/42 15:39 09:30-10:08/38
6	04:31 22:23	05:25 21:30	06:31 20:09	07:35 08:05-08:52/47 18:45 08:53-09:18/25	07:45 14:55-15:09/14 16:26	08:48 10:11-10:52/41 15:39 09:31-10:08/37
7	04:32 22:22	05:27 21:28	06:34 20:07	07:37 08:07-09:19/72 18:43	07:47 14:54-15:12/18 16:24	08:49 10:11-10:53/42 15:38 09:33-10:08/35
8	04:33 22:21	05:30 21:25	06:36 20:04	07:40 08:10-09:21/71 18:40	07:50 14:52-15:12/20 16:22 09:03-09:07/4	08:51 10:12-10:54/42 15:37 09:35-10:09/34
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Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	906	1891	2011	2208

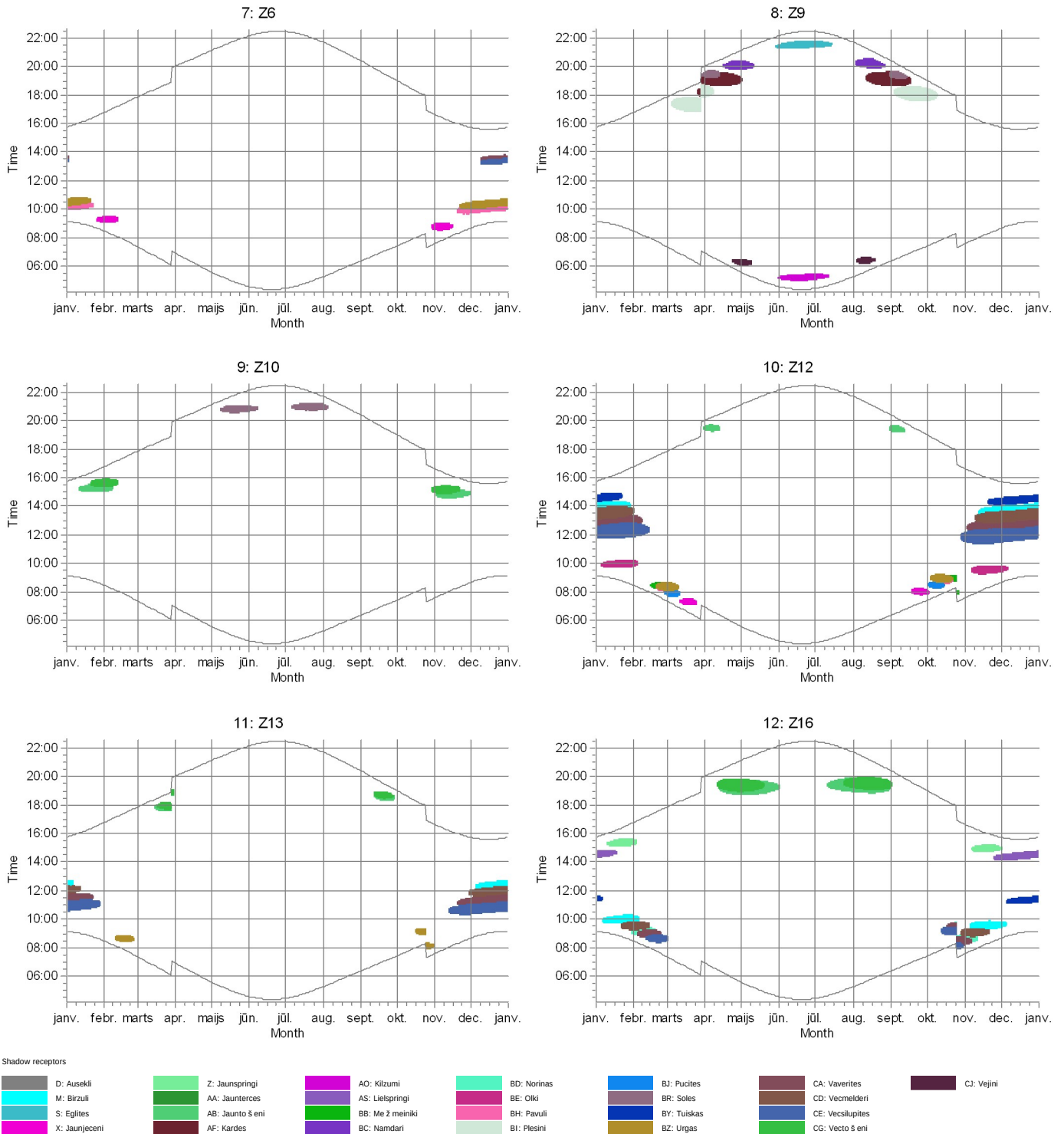
Table layout: For each day in each month the following matrix apply

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

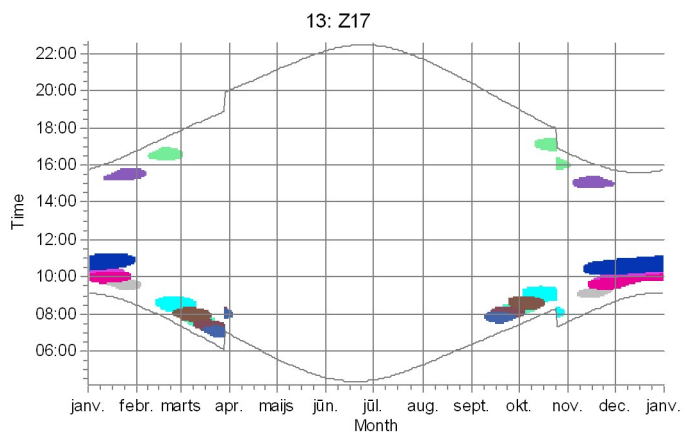
SHADOW - Calendar per WTG, graphical



SHADOW - Calendar per WTG, graphical



SHADOW - Calendar per WTG, graphical



Shadow receptors

L: Birtallinas	Z: Jaunspringi	AS: Lielspringi	BN: Silkaleji	CA: Vaverites	CE: Vecsilupites
M: Birzuli	AI: Krivās	BD: Norinas	BY: Tuiskas	CD: Vecmelderi	

