

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
 1.16 2.12 4.45 6.25 9.03 9.67 9.68 8.42 5.40 2.84 1.20 0.65

Operational time
 0 1 Sum
 3,899 3,899 7,798

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:
 Height contours used: Elevation Grid Data Object: jaunais_EMDGrid_0(1).wpg
 Obstacles used in calculation
 Eye height for map: 1.5 m
 Grid resolution: 1.0 m

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

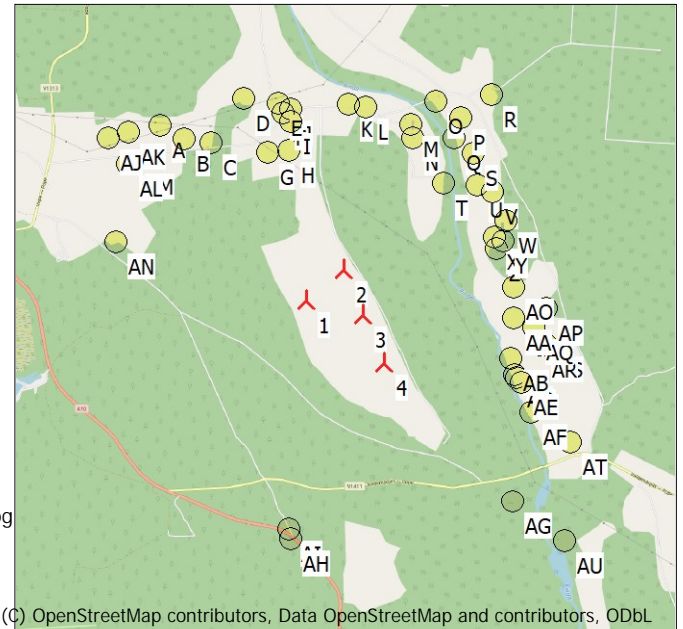
WTGs

Y	X	Z	Row data/Description	WTG type				Shadow data			
				Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Calculation distance	RPM
			[m]				[kW]	[m]	[m]	[m]	[RPM]
1	374,416	362,833	20.5 VES-1 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,600	20.0
2	374,792	363,122	19.2 VES-2 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,600	20.0
3	374,968	362,670	19.2 VES-3 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,600	20.0
4	375,172	362,199	18.9 VES-4 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,600	20.0

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	Shadow Receptor: Jaunuzoli	373,011	364,611	27.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
B	Shadow Receptor: Darzini	373,251	364,471	26.6	1.5	1.5	1.0	90.0	"Green house mode"	2.5
C	Shadow Receptor: Silaraji	373,513	364,431	25.2	1.5	1.5	1.0	90.0	"Green house mode"	2.5
D	Shadow Receptor: Zanderi	373,845	364,856	20.0	1.5	1.5	1.0	90.0	"Green house mode"	2.5
E	Shadow Receptor: Klavini	374,196	364,798	17.8	1.5	1.5	1.0	90.0	"Green house mode"	2.5
F	Shadow Receptor: Darzkalni	374,229	364,694	18.3	1.5	1.5	1.0	90.0	"Green house mode"	2.5
G	Shadow Receptor: Dzirnavaš	374,079	364,312	19.6	1.5	1.5	1.0	90.0	"Green house mode"	2.5
H	Shadow Receptor: Berenti	374,281	364,321	18.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
I	Shadow Receptor: Arumkalni	374,315	364,607	17.8	1.5	1.5	1.0	90.0	"Green house mode"	2.5
J	Shadow Receptor: Auzini	374,319	364,737	15.8	1.5	1.5	1.0	90.0	"Green house mode"	2.5
K	Shadow Receptor: Silmalnieki	374,884	364,766	17.9	1.5	1.5	1.0	90.0	"Green house mode"	2.5
L	Shadow Receptor: Bisenieki	375,059	364,738	17.4	1.5	1.5	1.0	90.0	"Green house mode"	2.5
M	Shadow Receptor: Sirupfabrika	375,507	364,540	17.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
N	Shadow Receptor: Mež malnieki	375,516	364,412	17.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
O	Shadow Receptor: Popes kartupelu pagrabs	375,767	364,765	19.0	1.5	1.5	1.0	90.0	"Green house mode"	2.5
P	Shadow Receptor: Druvnieki	376,004	364,598	17.4	1.5	1.5	1.0	90.0	"Green house mode"	2.5
Q	Shadow Receptor: Kukš i	375,922	364,402	16.2	1.5	1.5	1.0	90.0	"Green house mode"	2.5
R	Shadow Receptor: Girti	376,307	364,821	21.4	1.5	1.5	1.0	90.0	"Green house mode"	2.5
S	Shadow Receptor: Pakraujas	376,121	364,235	17.1	1.5	1.5	1.0	90.0	"Green house mode"	2.5
T	Shadow Receptor: Tirumi	375,806	363,961	14.3	1.5	1.5	1.0	90.0	"Green house mode"	2.5
U	Shadow Receptor: Krauli	376,142	363,925	19.1	1.5	1.5	1.0	90.0	"Green house mode"	2.5
V	Shadow Receptor: Kurzemnieki	376,294	363,853	22.9	1.5	1.5	1.0	90.0	"Green house mode"	2.5
W	Shadow Receptor: Mež lodes	376,418	363,568	24.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
X	Shadow Receptor: Kroji	376,300	363,413	23.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
Y	Shadow Receptor: Vinkalni	376,380	363,365	24.3	1.5	1.5	1.0	90.0	"Green house mode"	2.5

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 Scale 1:75,000
 New WTG Shadow receptor

SHADOW - Main Result

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No.	Name	Y	X	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
				[m]	[m]	[m]	a.g.l.	[°]		(ZVI) a.g.l.
							[m]			[m]
	Z Shadow Receptor: Salini	376,319	363,290	24.2	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AA Shadow Receptor: Atmatas	376,472	362,603	24.6	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AB Shadow Receptor: Dziri	376,432	362,202	15.3	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AC Shadow Receptor: Ciekurini	376,465	362,032	14.7	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AD Shadow Receptor: Kraci	376,474	362,012	14.7	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AE Shadow Receptor: Cerini	376,527	361,957	15.7	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AF Shadow Receptor: Niedragi	376,607	361,660	15.3	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AG Shadow Receptor: Uplejas	376,408	360,774	15.6	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AH Shadow Receptor: Lielsili	374,185	360,471	29.9	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AI Shadow Receptor: Ozolini	374,169	360,562	32.8	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AJ Shadow Receptor: Alks nu Birzes	372,488	364,500	30.0	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AK Shadow Receptor: Berznieki	372,692	364,558	28.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AL Shadow Receptor: Licnieki	372,671	364,237	28.8	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AM Shadow Receptor: Olstrauti	372,732	364,258	28.6	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AN Shadow Receptor: Purvlidumi	372,530	363,473	36.6	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AO Shadow Receptor: Jaunkaleji	376,478	362,909	24.5	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AP Shadow Receptor: Ivnieki	376,795	362,680	29.4	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AQ Shadow Receptor: Ivnieku ferma	376,663	362,496	27.1	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AR Shadow Receptor: Kalnenieki	376,716	362,321	27.7	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AS Shadow Receptor: Mierkalni	376,779	362,322	28.4	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AT Shadow Receptor: Setas	376,994	361,352	30.1	1.5	1.5	1.0	90.0	"Green house mode"	2.5
	AU Shadow Receptor: Dalderi	376,905	360,368	14.2	1.5	1.5	1.0	90.0	"Green house mode"	2.5

Calculation Results

Shadow receptor

No.	Name	Shadow, expected values
		Shadow hours
		per year
		[h/year]
A	Shadow Receptor: Jaunuzoli	0:00
B	Shadow Receptor: Darzini	0:00
C	Shadow Receptor: Silaraji	0:00
D	Shadow Receptor: Zanderi	0:00
E	Shadow Receptor: Klavini	0:00
F	Shadow Receptor: Darzkalni	0:00
G	Shadow Receptor: Dzirnavaš	2:09
H	Shadow Receptor: Berenti	1:30
I	Shadow Receptor: Arumkalni	0:25
J	Shadow Receptor: Auzini	0:00
K	Shadow Receptor: Silmalnieki	0:00
L	Shadow Receptor: Bisenieki	0:00
M	Shadow Receptor: Sirupfabrika	0:48
N	Shadow Receptor: Mež malnieki	1:16
O	Shadow Receptor: Popes kartupelu pagrabs	0:00
P	Shadow Receptor: Druvnieki	0:00
Q	Shadow Receptor: Kukš i	0:00
R	Shadow Receptor: Girti	0:00
S	Shadow Receptor: Pakraujas	0:00
T	Shadow Receptor: Tirumi	3:40
U	Shadow Receptor: Krauli	1:54
V	Shadow Receptor: Kurzemnieki	0:00
W	Shadow Receptor: Mež lodes	0:00
X	Shadow Receptor: Kroji	5:03
Y	Shadow Receptor: Vinkalni	1:56
Z	Shadow Receptor: Salini	6:39
AA	Shadow Receptor: Atmatas	7:18
AB	Shadow Receptor: Dziri	10:50
AC	Shadow Receptor: Ciekurini	6:05
AD	Shadow Receptor: Kraci	6:06
AE	Shadow Receptor: Cerini	5:45
AF	Shadow Receptor: Niedragi	5:51
AG	Shadow Receptor: Uplejas	0:00
AH	Shadow Receptor: Lielsili	0:00
AI	Shadow Receptor: Ozolini	0:00

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SHADOW - Main Result

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No.	Name	Shadow, expected values	
		Shadow hours	per year [h/year]
	AJ Shadow Receptor: Alkš nu Birzes		0:00
	AK Shadow Receptor: Berznieki		0:00
	AL Shadow Receptor: Licnieki		0:00
	AM Shadow Receptor: Olstrauti		0:00
	AN Shadow Receptor: Purvīdumi		0:00
	AO Shadow Receptor: Jaunkaleji		5:18
	AP Shadow Receptor: Ivnieki		0:00
	AQ Shadow Receptor: Ivnieku ferma		3:05
	AR Shadow Receptor: Kalnenieki		3:12
	AS Shadow Receptor: Mierkalni		0:00
	AT Shadow Receptor: Setas		0:00
	AU Shadow Receptor: Dalderi		0:00

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

No.	Name	Worst case	Expected
		[h/year]	[h/year]
1	VES-1 (1.alternativa)	10:32	0:13
2	VES-2 (1.alternativa)	149:20	15:32
3	VES-3 (1.alternativa)	78:31	18:02
4	VES-4 (1.alternativa)	102:15	32:48

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.

SHADOW - Calendar

Shadow receptor: A - Shadow Receptor: Jaunozoli
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:44	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:28	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:34	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:28	07:19	06:54	05:36	04:41	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:43	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:25	22:29	21:37	20:17	18:54	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:47	05:42	06:47	07:50	07:59	08:59
	16:08	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:06	18:43	16:28	15:49
12	09:07	08:12	07:00	06:35	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:28	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:31	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:32	22:22	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:03	08:02	06:49	06:24	05:12	04:35	04:58	05:58	07:03	08:07	08:17	09:08
	16:23	17:33	18:36	20:44	21:48	22:33	22:19	21:15	19:52	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:19	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:59	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:10	08:14	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:22	16:13	15:48
20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:12	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:34	22:13	21:05	19:40	18:19	16:11	15:49
21	08:56	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	22:00	22:35	22:09	21:00	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:06	04:59	04:35	05:10	06:13	07:18	08:22	08:32	09:13
	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:36	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:52	19:27	17:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:20	07:24	07:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	17:04	16:02	15:52
27	08:45	07:35	06:18	05:55	04:53	04:36	05:18	06:22	07:26	07:31	08:40	09:15
	16:47	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	17:02	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	07:34	08:42	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	16:59	15:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:15	16:57	15:58	15:55
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:33	07:38	08:45	09:15
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	16:54	15:57	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:15
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: B - Shadow Receptor: Darzini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:28	19:04	16:45	15:54
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	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:29	20:08	18:45	16:30	15:49
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17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
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18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
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22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
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23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:32	09:13
	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:36	09:14
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26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:20	07:24	07:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	17:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:18	06:22	07:26	07:31	08:40	09:15
	16:47	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	17:02	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	07:34	08:41	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	16:59	15:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:15
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30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:33	07:38	08:45	09:15
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31	08:38		07:07		04:47		05:25	06:30		07:40		09:15
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: C - Shadow Receptor: Silaraji
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:34	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:28	07:19	06:54	05:36	04:41	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:43	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:17	18:54	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:47	05:42	06:47	07:50	07:59	08:59
	16:08	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
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	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:50	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
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13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
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	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
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20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:12	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:34	22:13	21:05	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
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24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:34	09:14
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26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	08:29	08:38	09:14
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29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:15
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31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: D - Shadow Receptor: Zanderi
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:19	06:53	05:36	04:41	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:17	18:53	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:46	05:42	06:47	07:50	07:59	08:59
	16:08	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
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	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:27	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:03	08:02	06:49	06:24	05:12	04:35	04:58	05:58	07:03	08:07	08:17	09:08
	16:23	17:33	18:36	20:44	21:48	22:33	22:19	21:15	19:52	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:14	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:22	16:13	15:48
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	16:31	17:42	18:45	20:52	21:56	22:34	22:13	21:05	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
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23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	08:27	08:36	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:52	19:27	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	08:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:18	06:22	07:26	08:31	08:40	09:15
	16:46	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	18:01	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:19	06:24	07:28	08:34	08:41	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:00	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:00	15:55
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	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:00	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:15
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	229	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: E - Shadow Receptor: Klavini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:19	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:46	05:42	06:47	07:50	07:59	08:59
	16:08	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
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	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
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	16:12	17:19	18:23	20:31	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
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13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
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	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:03	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
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17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
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20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:12	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:34	22:13	21:05	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:54	21:58	22:35	22:11	21:02	19:38	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
	16:35	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:50
25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:36	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:52	19:27	17:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	07:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	17:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:18	06:22	07:26	07:31	08:40	09:15
	16:46	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	17:01	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:19	06:24	07:28	07:34	08:41	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	16:59	15:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:15	16:57	15:58	15:55
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:15
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	16:54	15:57	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	229	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: F - Shadow Receptor: Darzkalni
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:19	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
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8	09:11	08:21	07:11	06:45	05:29	04:39	04:46	05:42	06:47	07:50	07:59	08:59
	16:08	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
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	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:31	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:27	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:35	04:58	05:58	07:03	08:07	08:16	09:08
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21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:14	08:18	08:27	09:12
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23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
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24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:34	09:14
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27	08:45	07:34	06:18	05:55	04:53	04:36	05:18	06:22	07:26	08:31	08:40	09:14
	16:46	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	18:01	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:19	06:24	07:28	08:34	08:41	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:00	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:00	15:55
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	08:38	08:45	09:15
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:00	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: G - Shadow Receptor: Dzirnavaš
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58 36	10:04 (2) 11:38 (1) 16:58	08:36 18:03	07:29 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:35 19:10	07:43 16:50	08:47 15:56 27	09:48 (2) 10:15 (2)
2	09:14 16:00 37	10:03 (2) 11:37 (1) 17:00	08:34 18:05	07:27 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:48	06:34 20:30	07:37 19:07	07:45 16:47	08:49 15:55 27	09:48 (2) 10:15 (2)
3	09:14 16:01 35	10:04 (2) 11:37 (1) 17:03	08:32 18:07	07:24 20:15	06:59 21:21	05:41 22:19	04:43 22:32	05:31 21:45	06:36 20:27	07:39 19:04	07:47 16:45	08:51 15:54 26	09:49 (2) 10:15 (2)
4	09:13 16:02 34	10:04 (2) 11:37 (1) 17:05	08:30 18:10	07:21 20:18	06:56 21:23	05:38 22:21	04:42 22:32	05:33 21:43	06:38 20:25	07:41 19:02	07:50 16:43	08:52 15:53 26	09:49 (2) 10:15 (2)
5	09:12 16:04 31	10:04 (2) 11:35 (1) 17:07	08:27 18:12	07:19 20:20	06:53 21:25	05:36 22:22	04:41 22:31	05:36 21:41	06:40 20:22	07:43 18:59	07:52 16:40	08:54 15:52 25	09:49 (2) 10:14 (2)
6	09:12 16:05 27	10:04 (2) 11:33 (1) 17:10	08:25 18:14	07:16 20:22	06:51 21:27	05:34 22:23	04:40 22:30	05:38 21:39	06:42 20:19	07:45 18:56	07:54 16:38	08:55 15:51 25	09:50 (2) 10:15 (2)
7	09:11 16:07 25	10:04 (2) 10:29 (2) 17:12	08:23 18:16	07:13 20:24	06:48 21:29	05:31 22:24	04:40 22:45	05:40 21:36	06:45 20:16	07:47 18:53	07:56 16:36	08:57 15:51 31	09:51 (2) 11:22 (1)
8	09:11 16:08 26	10:04 (2) 10:30 (2) 17:14	08:21 18:19	07:11 20:26	06:45 21:31	05:29 22:26	04:39 22:28	05:42 21:34	06:47 20:14	07:50 18:51	07:59 16:34	08:59 15:50 35	09:52 (2) 11:25 (1)
9	09:10 16:10 26	10:05 (2) 10:31 (2) 17:17	08:19 18:21	07:08 20:28	06:43 21:33	05:27 22:27	04:38 22:27	05:44 21:32	06:49 20:11	07:52 18:48	08:01 16:32	09:00 15:50 35	09:52 (2) 11:25 (1)
10	09:09 16:12 27	10:05 (2) 10:32 (2) 17:19	08:16 18:23	07:05 20:31	06:40 21:35	05:25 22:28	04:37 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49 36	09:54 (2) 11:27 (1)
11	09:08 16:14 28	10:05 (2) 10:33 (2) 17:21	08:14 18:25	07:02 20:33	06:37 21:38	05:22 22:29	04:37 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:03 15:49 36	09:54 (2) 11:28 (1)
12	09:07 16:15 28	10:05 (2) 10:33 (2) 17:24	08:12 18:27	07:00 20:35	06:34 21:40	05:20 22:30	04:36 22:24	05:50 21:25	06:55 20:03	07:58 18:40	08:08 16:26	09:04 15:48 37	09:55 (2) 11:29 (1)
13	09:06 16:17 27	10:06 (2) 10:33 (2) 17:26	08:09 18:30	06:57 20:37	06:32 21:42	05:18 22:30	04:36 22:23	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24	09:05 15:48 37	09:56 (2) 11:30 (1)
14	09:05 16:19 28	10:06 (2) 10:33 (2) 17:28	08:07 18:32	06:54 20:39	06:29 21:44	05:16 22:31	04:35 22:21	05:54 21:20	06:59 19:57	08:03 18:35	08:12 16:22	09:06 15:48 37	09:56 (2) 11:30 (1)
15	09:04 16:21 28	10:06 (2) 10:34 (2) 17:31	08:05 18:34	06:51 20:41	06:26 21:46	05:14 22:32	04:35 22:20	05:56 21:17	07:01 19:54	08:05 18:32	08:14 16:20	09:07 15:48 37	09:57 (2) 11:31 (1)
16	09:02 16:23 28	10:06 (2) 10:34 (2) 17:33	08:02 18:36	06:49 20:44	06:24 21:48	05:12 22:33	04:35 22:19	05:58 21:15	07:03 19:52	08:07 18:29	08:16 16:18	09:08 15:48 38	09:57 (2) 11:32 (1)
17	09:01 16:25 28	10:07 (2) 10:35 (2) 17:35	08:00 18:38	06:46 20:46	06:21 21:50	05:10 22:33	04:34 22:17	06:01 21:12	07:05 19:49	08:09 18:27	08:19 16:16	09:09 15:48 37	09:58 (2) 11:32 (1)
18	09:00 16:27 28	10:07 (2) 10:35 (2) 17:38	07:57 18:41	06:43 20:48	06:18 21:52	05:08 22:34	04:34 22:16	06:03 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48 37	09:59 (2) 11:33 (1)
19	08:58 16:29 28	10:07 (2) 10:35 (2) 17:40	07:55 18:43	06:40 20:50	06:16 21:54	05:06 22:34	04:34 22:14	06:05 21:07	07:09 19:43	08:13 18:22	08:23 16:13	09:11 15:48 36	09:59 (2) 11:34 (1)
20	08:57 16:31 27	10:08 (2) 10:35 (2) 17:42	07:52 18:45	06:38 20:52	06:13 21:56	05:04 22:34	04:34 22:12	06:07 21:05	07:12 19:40	08:16 18:19	08:25 16:11	09:12 15:49 37	09:59 (2) 11:35 (1)
21	08:55 16:33 27	10:09 (2) 10:36 (2) 17:45	07:50 18:47	06:35 20:54	06:11 21:58	05:03 22:35	04:34 22:11	06:09 21:02	07:14 19:38	08:18 18:16	08:27 16:09	09:12 15:49 37	09:59 (2) 11:35 (1)
22	08:54 16:35 27	10:09 (2) 10:36 (2) 17:47	07:47 18:49	06:32 20:57	06:08 21:59	05:01 22:35	04:34 22:09	06:11 20:59	07:16 19:35	08:20 18:14	08:29 16:08	09:13 15:49 37	09:59 (2) 11:36 (1)
23	08:52 16:38 26	10:10 (2) 10:36 (2) 17:49	07:45 18:52	06:29 20:59	06:05 22:01	04:59 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:11	08:31 16:06	09:13 15:50 37	09:59 (2) 11:36 (1)
24	08:51 16:40 25	10:11 (2) 10:36 (2) 17:51	07:42 18:54	06:27 21:01	06:03 22:03	04:57 22:35	05:12 22:06	06:15 20:54	07:20 19:29	08:25 18:09	08:33 16:05	09:14 15:51 37	09:59 (2) 11:36 (1)
25	08:49 16:42 23	10:12 (2) 10:35 (2) 17:54	07:40 18:56	06:24 21:03	06:00 22:05	04:56 22:35	05:14 22:04	06:17 20:52	07:22 19:27	08:27 17:06	08:36 16:03	09:14 15:51 37	09:59 (2) 11:36 (1)
26	08:47 16:44 22	10:13 (2) 10:35 (2) 17:56	07:37 18:58	06:21 21:05	05:58 22:07	04:54 22:35	05:16 22:02	06:19 20:49	07:24 19:24	08:29 17:04	08:38 16:02	09:14 15:52 37	09:59 (2) 11:37 (1)
27	08:45 16:46 20	10:14 (2) 10:34 (2) 17:58	07:34 19:00	06:18 21:08	05:55 22:08	04:53 22:35	05:18 22:00	06:22 20:46	07:26 19:21	08:31 17:01	08:39 16:01	09:14 15:53 37	09:59 (2) 11:37 (1)
28	08:44 16:49 17	10:16 (2) 10:33 (2) 18:01	07:32 19:02	06:16 21:10	05:53 22:10	04:51 22:35	05:19 21:58	06:24 20:44	07:28 19:18	08:34 16:59	08:41 15:59	09:15 15:54 37	09:59 (2) 11:37 (1)
29	08:42 16:51 14	10:17 (2) 10:31 (2) 18:05	07:31 20:05	06:13 21:12	05:50 22:12	04:50 22:34	05:21 21:56	06:26 20:41	07:30 19:15	08:36 16:57	08:43 15:58	09:15 15:55 37	09:59 (2) 11:37 (1)
30	08:40 16:53 8	10:20 (2) 10:28 (2)	07:30 20:07	06:10 21:14	05:48 22:13	04:48 22:34	05:23 21:54	06:28 20:38	07:33 19:13	08:38 16:54	08:45 15:57	09:15 15:56 38	09:59 (2) 11:38 (1)
31	08:38 16:56		07:07 20:09		04:47 22:15		05:25 21:52	06:30 20:36		07:40 16:52		09:14 15:57 37	10:04 (2) 11:38 (1)
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209	1070
Total, worst case	791										465		1070
Sun reduction	0.16										0.15		0.10
Oper. time red.	0.89										0.89		0.89
Wind dir. red.	0.53										0.55		0.44
Total reduction	0.07										0.07		0.04
Total, real	57										33		39

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

Project:

Sarce 1. alternativa

Licensed user:

Enviroprojekts, SIA
 Maza Nometnu iela 31
 LV-1002 Riga
 +37129262684
 Peteris Blumats / info@enviro.lv
 Calculated:
 29/09/2021 15:41/3.4.424

SHADOW - Calendar

Shadow receptor: H - Shadow Receptor: Berenti
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58 30	10:32 (2) 11:02 (2) 16:58	08:36 18:03	07:29 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:35 19:10	07:43 16:50	08:47 15:56 30	10:19 (2) 10:49 (2)
2	09:14 16:00 30	10:32 (2) 11:02 (2) 17:00	08:34 18:05	07:27 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:48	06:34 20:30	07:37 19:07	07:45 16:47	08:49 15:55 30	10:19 (2) 10:49 (2)
3	09:14 16:01 31	10:33 (2) 11:04 (2) 17:03	08:32 18:07	07:24 20:15	06:59 21:21	05:41 22:19	04:43 22:32	05:31 21:45	06:36 20:27	07:39 19:04	07:47 16:45	08:51 15:54 30	10:20 (2) 10:50 (2)
4	09:13 16:02 31	10:33 (2) 11:04 (2) 17:05	08:30 18:10	07:21 20:18	06:56 21:23	05:38 22:21	04:42 22:32	05:33 21:43	06:38 20:25	07:41 19:02	07:49 16:43	08:52 15:53 30	10:20 (2) 10:50 (2)
5	09:12 16:04 30	10:34 (2) 11:04 (2) 17:07	08:25 18:12	07:19 20:20	06:53 21:25	05:36 22:22	04:41 22:31	05:36 21:41	06:40 20:22	07:43 18:59	07:52 16:40	08:54 15:52 31	10:19 (2) 10:50 (2)
6	09:12 16:05 30	10:34 (2) 11:04 (2) 17:10	08:25 18:14	07:16 20:22	06:51 21:27	05:34 22:23	04:40 22:30	05:38 21:39	06:42 20:19	07:45 18:56	07:54 16:38	08:55 15:51 31	10:20 (2) 10:51 (2)
7	09:11 16:07 31	10:34 (2) 11:05 (2) 17:12	08:23 18:16	07:13 20:24	06:48 21:29	05:31 22:24	04:39 22:29	05:40 21:36	06:45 20:16	07:47 18:53	07:56 16:36	08:57 15:51 30	10:21 (2) 10:51 (2)
8	09:11 16:08 30	10:35 (2) 11:05 (2) 17:14	08:21 18:19	07:10 20:26	06:45 21:31	05:29 22:26	04:39 22:26	05:42 21:34	06:47 20:14	07:50 18:51	07:59 16:34	08:59 15:50 31	10:21 (2) 10:52 (2)
9	09:10 16:10 31	10:35 (2) 11:06 (2) 17:17	08:19 18:21	07:08 20:28	06:43 21:33	05:27 22:27	04:38 22:27	05:44 21:32	06:49 20:11	07:52 18:48	08:01 16:32	09:00 15:50 31	10:21 (2) 10:52 (2)
10	09:09 16:12 30	10:36 (2) 11:06 (2) 17:19	08:16 18:23	07:05 20:31	06:40 21:35	05:25 22:28	04:37 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49 31	10:22 (2) 10:53 (2)
11	09:08 16:14 30	10:37 (2) 11:07 (2) 17:21	08:14 18:25	07:02 20:33	06:37 21:38	05:22 22:29	04:37 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:03 15:49 31	10:22 (2) 10:53 (2)
12	09:07 16:15 29	10:37 (2) 11:06 (2) 17:24	08:12 18:27	07:00 20:35	06:34 21:40	05:20 22:30	04:36 22:24	05:50 21:25	06:55 20:03	07:58 18:40	08:08 16:26	09:04 15:48 31	10:23 (2) 10:54 (2)
13	09:06 16:17 29	10:38 (2) 11:07 (2) 17:26	08:09 18:30	06:57 20:37	06:32 21:42	05:18 22:30	04:36 22:23	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24	09:05 15:48 31	10:23 (2) 10:54 (2)
14	09:05 16:19 28	10:38 (2) 11:06 (2) 17:28	08:07 18:32	06:54 20:39	06:29 21:44	05:16 22:31	04:35 22:21	05:54 21:20	06:59 19:57	08:02 18:35	08:12 16:22	09:06 15:48 34	10:24 (2) 11:57 (2)
15	09:04 16:21 28	10:39 (2) 11:07 (2) 17:31	08:05 18:34	06:51 20:41	06:26 21:46	05:14 22:32	04:35 22:20	05:56 21:17	07:01 19:54	08:05 18:32	08:14 16:20	09:07 15:48 37	10:24 (2) 11:59 (1)
16	09:02 16:23 28	10:39 (2) 11:07 (2) 17:33	08:02 18:36	06:49 20:44	06:24 21:48	05:12 22:33	04:35 22:19	05:58 21:15	07:03 19:52	08:07 18:29	08:16 16:18	09:08 15:48 37	10:25 (2) 12:00 (1)
17	09:01 16:25 26	10:41 (2) 11:07 (2) 17:35	08:00 18:38	06:46 20:46	06:21 21:50	05:10 22:33	04:34 22:17	06:01 21:12	07:05 19:49	08:09 18:27	08:19 16:16	09:09 15:48 39	10:25 (2) 12:01 (1)
18	09:00 16:27 25	10:41 (2) 11:06 (2) 17:38	07:57 18:41	06:43 20:48	06:18 21:52	05:08 22:34	04:34 22:16	06:03 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48 40	10:26 (2) 12:02 (1)
19	08:58 16:29 24	10:42 (2) 11:06 (2) 17:40	07:55 18:43	06:40 20:50	06:16 21:54	05:06 22:34	04:34 22:14	06:05 21:07	07:09 19:43	08:13 18:22	08:23 16:13	9 10:34 (2) 15:48 40	10:23 (2) 10:26 (2) 12:03 (1)
20	08:57 16:31 22	10:43 (2) 11:05 (2) 17:42	07:52 18:45	06:38 20:52	06:13 21:56	05:04 22:34	04:34 22:12	05:05 21:05	06:07 19:40	07:12 18:19	08:16 16:11	14 10:37 (2) 15:49 41	10:22 (2) 10:26 (2) 12:03 (1)
21	08:55 16:33 20	10:45 (2) 11:05 (2) 17:45	07:50 18:47	06:35 20:54	06:11 21:58	05:03 22:35	04:34 22:11	05:06 21:02	06:09 19:38	07:14 18:16	08:18 16:09	20 10:40 (2) 15:49 41	10:20 (2) 10:24 (2) 12:04 (1)
22	08:54 16:35 17	10:47 (2) 11:04 (2) 17:47	07:47 18:49	06:32 20:57	06:08 21:59	05:01 22:35	04:34 22:09	05:08 20:59	06:11 19:35	07:16 18:14	08:20 16:08	22 10:42 (2) 15:49 41	10:20 (2) 10:28 (2) 12:05 (1)
23	08:52 16:38 14	10:49 (2) 11:03 (2) 17:49	07:45 18:51	06:29 20:59	06:05 22:01	04:59 22:35	04:35 22:07	06:13 20:57	07:18 19:32	08:22 18:11	08:31 16:06	24 10:43 (2) 15:50 41	10:19 (2) 10:28 (2) 12:05 (1)
24	08:51 16:40 9	10:51 (2) 11:00 (2) 17:51	07:42 18:54	06:27 21:01	06:03 22:03	04:57 22:35	04:35 22:06	05:12 20:54	07:20 19:29	08:25 18:09	08:33 16:05	25 10:44 (2) 15:51 41	10:19 (2) 10:28 (2) 12:05 (1)
25	08:49 16:42	10:51 (2) 11:00 (2) 17:51	07:40 18:54	06:24 21:03	06:00 22:05	04:56 22:35	04:35 22:04	06:17 20:52	07:22 19:26	08:27 17:06	08:36 16:03	26 10:45 (2) 15:51 39	10:19 (2) 10:28 (2) 12:05 (1)
26	08:47 16:44	10:51 (2) 11:00 (2) 17:51	07:37 18:58	06:21 21:05	05:58 22:07	04:54 22:35	04:36 22:02	06:19 20:49	07:24 19:24	08:38 17:04	08:38 16:02	27 10:46 (2) 15:52 39	10:19 (2) 10:28 (2) 12:06 (1)
27	08:45 16:46	10:51 (2) 11:00 (2) 17:51	07:34 18:58	06:18 21:08	05:55 22:08	04:53 22:35	04:36 22:00	06:22 20:46	07:26 19:21	08:39 17:01	08:39 16:01	28 10:47 (2) 15:53 39	10:18 (2) 10:26 (2) 12:06 (1)
28	08:44 16:49	10:51 (2) 11:00 (2) 17:51	07:32 18:58	06:16 21:10	05:53 22:10	04:51 22:35	04:37 22:05	06:24 20:44	07:28 19:18	08:41 16:59	08:41 15:59	29 10:47 (2) 15:54 37	10:18 (2) 10:26 (2) 12:05 (1)
29	08:42 16:51	10:51 (2) 11:00 (2) 17:51	07:31 18:58	06:15 21:12	05:50 22:12	04:50 22:34	04:38 22:05	06:26 20:41	07:30 19:15	08:43 16:57	08:43 15:58	29 10:47 (2) 15:55 36	10:18 (2) 10:26 (2) 12:05 (1)
30	08:40 16:53	10:51 (2) 11:00 (2) 17:51	07:30 18:58	06:14 21:13	05:48 22:13	04:48 22:34	04:38 22:05	06:28 20:38	07:32 19:13	08:45 16:54	08:45 15:57	29 10:48 (2) 15:56 30	10:19 (2) 10:26 (2) 12:05 (1)
31	08:38 16:56	10:51 (2) 11:00 (2) 17:51	07:29 18:58	06:13 21:14	05:47 22:15	04:47 22:35	04:38 22:05	06:30 20:36	07:40 16:52	08:47 15:57	08:47 15:57	30 10:49 (2) 15:57 30	10:23 (2) 10:26 (2) 12:05 (1)
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209	
Total, worst case	633												1080
Sun reduction	0.16												0.10
Oper. time red.	0.89												0.89
Wind dir. red.	0.43												0.39
Total reduction	0.06												0.03
Total, real	38												36

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: I - Shadow Receptor: Arumkalni
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14 15:58	10:58 (2) 11:19 (2)	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:35 19:10	08:47 16:50
2	09:14 16:00	10:58 (2) 11:19 (2)	08:34 17:00	07:27 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:48	06:34 20:30	07:37 19:07	08:49 16:47
3	09:14 16:01	11:00 (2) 11:19 (2)	08:32 17:03	07:24 18:07	06:59 20:15	05:41 21:21	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	07:39 19:04	08:51 16:45
4	09:13 16:02	11:01 (2) 11:19 (2)	08:30 17:05	07:21 18:10	06:56 20:18	05:38 21:23	04:42 22:21	04:42 22:32	05:33 21:43	06:38 20:25	07:41 19:02	08:52 16:43
5	09:13 16:04	11:01 (2) 11:19 (2)	08:27 17:07	07:19 18:12	06:53 20:20	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	07:43 18:59	08:54 16:40
6	09:12 16:05	11:02 (2) 11:18 (2)	08:25 17:10	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:38 21:39	06:42 20:19	07:45 18:56	08:55 16:38
7	09:11 16:07	11:03 (2) 11:18 (2)	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:45 20:16	07:47 18:53	08:57 16:36
8	09:11 16:08	11:05 (2) 11:18 (2)	08:21 17:14	07:10 18:19	06:45 20:26	05:29 21:31	04:39 22:26	04:46 22:28	05:42 21:34	06:47 20:14	07:50 18:51	08:59 16:34
9	09:10 16:10	11:06 (2) 11:17 (2)	08:19 17:17	07:08 18:21	06:43 20:28	05:27 21:33	04:38 22:27	04:48 22:27	05:44 21:32	06:49 20:11	07:52 18:48	09:00 16:32
10	09:09 16:12	11:09 (2) 11:16 (2)	08:16 17:19	07:05 18:23	06:40 20:31	05:25 21:35	04:37 22:28	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	09:01 16:30
11	09:08 16:14	11:10 (2) 11:16 (2)	08:14 17:21	07:02 18:25	06:37 20:33	05:22 21:38	04:37 22:29	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	09:03 16:28
12	09:07 16:15	11:11 (2) 11:16 (2)	08:12 17:24	07:00 18:27	06:34 20:35	05:20 21:40	04:36 22:30	04:52 22:24	05:50 21:25	06:55 20:03	07:58 18:40	09:04 16:26
13	09:06 16:17	11:12 (2) 11:17 (2)	08:09 17:26	06:57 18:30	06:32 20:37	05:18 21:42	04:36 22:30	04:53 22:23	05:52 21:22	06:57 20:00	08:00 18:37	09:05 16:24
14	09:05 16:19	11:13 (2) 11:18 (2)	08:07 17:28	06:54 18:32	06:29 20:39	05:16 21:44	04:35 22:31	04:55 22:21	05:54 21:20	06:59 19:57	08:02 18:35	09:06 16:22
15	09:04 16:21	11:14 (2) 11:19 (2)	08:05 17:31	06:51 18:34	06:26 20:41	05:14 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	08:05 18:32	09:07 16:20
16	09:02 16:23	11:15 (2) 11:20 (2)	08:02 17:33	06:49 18:36	06:24 20:44	05:12 21:48	04:35 22:33	04:58 22:19	05:58 21:15	07:03 19:52	08:07 18:29	09:08 16:18
17	09:01 16:25	11:16 (2) 11:21 (2)	08:00 17:35	06:46 18:38	06:21 20:46	05:10 21:50	04:34 22:33	05:00 22:17	06:01 21:12	07:05 19:49	08:09 18:27	09:09 16:16
18	09:00 16:27	11:17 (2) 11:22 (2)	07:57 17:38	06:43 18:41	06:18 20:48	05:08 21:52	04:34 22:34	05:01 22:16	06:03 21:10	07:07 19:46	08:11 18:24	09:10 16:14
19	08:58 16:29	11:18 (2) 11:23 (2)	07:55 17:40	06:40 18:43	06:16 20:50	05:06 21:54	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	08:13 18:22	09:11 16:13
20	08:57 16:31	11:19 (2) 11:24 (2)	07:52 17:42	06:38 18:45	06:13 20:52	05:04 21:56	04:34 22:34	05:05 22:12	06:07 21:05	07:12 19:40	08:16 18:19	09:12 16:11
21	08:55 16:33	11:20 (2) 11:25 (2)	07:50 17:45	06:35 18:47	06:11 20:54	05:03 21:58	04:34 22:35	05:06 22:11	06:09 21:02	07:14 19:38	08:18 18:16	09:12 16:09
22	08:54 16:35	11:21 (2) 11:26 (2)	07:47 17:47	06:32 18:49	06:08 20:57	05:01 21:59	04:34 22:35	05:08 22:09	06:11 20:59	07:16 19:35	08:20 18:14	09:13 16:08
23	08:52 16:38	11:22 (2) 11:27 (2)	07:45 17:49	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:11	09:13 16:06
24	08:51 16:40	11:23 (2) 11:28 (2)	07:42 17:51	06:27 18:54	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:06	06:15 20:54	07:20 19:29	08:25 18:09	09:14 16:05
25	08:49 16:42	11:24 (2) 11:29 (2)	07:40 17:54	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:04	06:17 20:52	07:22 19:26	07:27 17:06	08:36 16:03
26	08:47 16:44	11:25 (2) 11:30 (2)	07:37 17:56	06:21 18:58	05:58 21:05	04:54 22:07	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	07:29 17:04	08:38 16:02
27	08:45 16:46	11:26 (2) 11:31 (2)	07:34 17:58	06:18 19:00	05:55 21:08	04:53 22:08	04:36 22:35	05:18 22:00	06:22 20:46	07:26 19:21	07:31 17:01	08:39 16:01
28	08:44 16:49	11:27 (2) 11:32 (2)	07:32 18:01	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:35	05:19 21:58	06:24 20:44	07:28 19:18	07:34 16:59	08:41 15:59
29	08:42 16:51	11:28 (2) 11:33 (2)	07:30 18:05	06:13 19:05	05:50 21:12	04:50 22:12	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	07:36 16:57	08:43 15:58
30	08:40 16:53	11:29 (2) 11:34 (2)	07:28 18:07	06:11 19:07	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:13	07:38 16:54	08:45 15:57
31	08:38 16:56	11:30 (2) 11:35 (2)	07:26 18:09	06:09 19:09	05:46 21:15	04:47 22:15	04:39 22:35	05:25 21:52	06:30 20:36	07:40 16:52	07:46 15:57	08:51 15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case	159											605
Sun reduction	0.16											0.10
Oper. time red.	0.89											0.89
Wind dir. red.	0.35											0.35
Total reduction	0.05											0.03
Total, real	8											18

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: J - Shadow Receptor: Auzini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:19	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:55
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:11	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:47	07:50	07:59	08:59
	16:08	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:31	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:27	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:44	21:48	22:33	22:19	21:15	19:52	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:00	07:05	08:09	08:19	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:22	16:13	15:48
20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:12	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:34	22:13	21:05	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:58	22:35	22:11	21:02	19:38	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
	16:35	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:50
25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	08:27	08:36	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:52	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	08:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:18	06:22	07:26	08:31	08:39	09:14
	16:46	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	18:01	16:01	15:53
28	08:44	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	08:34	08:41	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:00	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:00	15:55
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	08:38	08:45	09:15
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:00	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	229	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: K - Shadow Receptor: Silmalnieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:02	18:07	20:15	21:21	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:10	20:17	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:19	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:11	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:47	07:49	07:59	08:59
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	16:10	17:16	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:49
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
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16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
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24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:33	09:14
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27	08:45	07:34	06:18	05:55	04:53	04:36	05:17	06:21	07:26	08:31	08:39	09:14
	16:46	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	18:01	16:00	15:53
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	16:49	18:00	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:15
	16:51		20:04	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:57	15:58
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	08:38	08:45	09:15
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31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	229	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: L - Shadow Receptor: Bisenieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:26	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:51
	16:01	17:02	18:07	20:15	21:21	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:10	20:17	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:19	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:44	07:47	07:56	08:57
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8	09:11	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:47	07:49	07:59	08:58
	16:08	17:14	18:18	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:16	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:49
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:03
	16:13	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:27	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:35	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
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15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
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	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
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20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:11	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:34	22:12	21:05	19:40	18:19	16:11	15:48
21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:58	22:35	22:11	21:02	19:38	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
	16:35	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:33	09:14
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25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:52	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	07:29	08:37	09:14
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27	08:45	07:34	06:18	05:55	04:53	04:36	05:17	06:21	07:26	07:31	08:39	09:14
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	16:49	18:00	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:15
	16:51		20:04	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:57	15:55
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	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:54	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	229	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: M - Shadow Receptor: Sirupfabrika
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	14:12 (2) 14:36 (2)	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:35 19:10	07:43 16:49	08:47 15:56
2	09:14 16:00	14:12 (2) 14:36 (2)	08:34 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:44 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	07:45 16:47	08:49 15:55
3	09:14 16:01	14:13 (2) 14:37 (2)	08:32 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	07:39 19:04	07:47 16:45	08:50 15:54
4	09:13 16:02	14:13 (2) 14:37 (2)	08:30 17:05	07:21 18:09	06:56 20:17	05:38 21:23	04:42 22:21	04:42 22:32	05:33 21:43	06:38 20:25	07:41 19:02	07:49 16:43	08:52 15:53
5	09:12 16:04	14:14 (2) 14:38 (2)	08:27 17:07	07:18 18:12	06:53 20:20	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	07:43 18:59	07:52 16:40	08:54 15:52
6	09:12 16:05	14:14 (2) 14:38 (2)	08:25 17:09	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:37 21:39	06:42 20:19	07:45 18:56	07:54 16:38	08:55 15:51
7	09:11 16:07	14:15 (2) 14:38 (2)	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	07:47 18:53	07:56 16:36	08:57 15:51
8	09:11 16:08	14:16 (2) 14:38 (2)	08:21 17:14	07:10 18:18	06:45 20:26	05:29 21:31	04:39 22:26	04:46 22:28	05:42 21:34	06:47 20:14	07:49 18:51	07:58 16:34	08:58 15:50
9	09:10 16:10	14:17 (2) 14:38 (2)	08:19 17:16	07:08 18:21	06:42 20:28	05:27 21:33	04:38 22:27	04:48 22:27	05:44 21:32	06:49 20:11	07:52 18:48	08:01 16:32	09:00 15:49
10	09:09 16:12	14:18 (2) 14:38 (2)	08:16 17:19	07:05 18:23	06:40 20:30	05:25 21:35	04:37 22:28	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49
11	09:08 16:13	14:19 (2) 14:38 (2)	08:14 17:21	07:02 18:25	06:37 20:33	05:22 21:37	04:36 22:29	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:03 15:49
12	09:07 16:15	14:19 (2) 14:38 (2)	08:12 17:23	07:00 18:27	06:34 20:35	05:20 21:40	04:36 22:30	04:52 22:24	05:50 21:25	06:55 20:03	07:58 18:40	08:08 16:26	09:04 15:48
13	09:06 16:17	14:21 (2) 14:38 (2)	08:09 17:26	06:57 18:30	06:32 20:37	05:18 21:42	04:35 22:30	04:53 22:23	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24	09:05 15:48
14	09:05 16:19	14:22 (2) 14:36 (2)	08:07 17:28	06:54 18:32	06:29 20:39	05:16 21:44	04:35 22:31	04:55 22:21	05:54 21:20	06:59 19:57	08:02 18:35	08:12 16:22	09:06 15:48
15	09:04 16:21	14:24 (2) 14:36 (2)	08:05 17:30	06:51 18:34	06:26 20:41	05:14 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	08:05 18:32	08:14 16:20	09:07 15:48
16	09:02 16:23	14:26 (2) 14:34 (2)	08:02 17:33	06:49 18:36	06:24 20:44	05:12 21:48	04:34 22:32	04:58 22:19	05:58 21:15	07:03 19:51	08:07 18:29	08:16 16:18	09:08 15:48
17	09:01 16:25	14:28 (2) 17:35	08:00 18:38	06:46 18:38	06:21 20:46	05:10 21:50	04:34 22:33	04:59 22:17	06:00 21:12	07:05 19:49	08:09 18:27	08:19 16:16	09:09 15:48
18	09:00 16:27	14:30 (2) 17:37	08:00 18:41	06:43 18:41	06:18 20:48	05:08 21:52	04:34 22:34	05:01 22:16	06:03 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48
19	08:58 16:29	14:32 (2) 17:40	08:00 18:43	06:40 18:43	06:16 20:50	05:06 21:54	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	08:13 18:21	08:23 16:13	09:11 15:48
20	08:57 16:31	14:34 (2) 17:42	08:00 18:45	06:38 18:45	06:13 20:52	05:04 21:56	04:34 22:34	05:05 22:12	06:07 21:05	07:11 19:40	08:16 18:19	08:25 16:11	09:12 15:48
21	08:55 16:33	14:36 (2) 17:44	08:00 18:47	06:35 18:47	06:11 20:54	05:02 21:57	04:34 22:35	05:06 22:11	06:09 21:02	07:14 19:38	08:18 18:16	08:27 16:09	09:12 15:49
22	08:54 16:35	14:38 (2) 17:47	08:00 18:49	06:32 18:49	06:08 20:57	05:01 21:59	04:34 22:35	05:08 22:09	06:11 20:59	07:16 19:35	08:20 18:14	08:29 16:08	09:13 15:49
23	08:52 16:38	14:40 (2) 17:49	08:00 18:51	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:11	08:31 16:06	09:13 15:50
24	08:51 16:40	14:42 (2) 17:51	08:00 18:54	06:26 18:54	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:05	06:15 20:54	07:20 19:29	08:25 18:09	08:33 16:05	09:14 15:50
25	08:49 16:42	14:44 (2) 17:54	08:00 18:56	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:04	06:17 20:52	07:22 19:26	08:27 17:06	08:35 16:03	09:14 15:51
26	08:47 16:44	14:46 (2) 17:56	08:00 18:58	06:21 18:58	05:58 21:05	04:54 22:07	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	08:29 17:04	08:37 16:02	09:14 15:52
27	08:45 16:46	14:48 (2) 17:58	08:00 19:00	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:35	05:17 22:00	06:21 20:46	07:26 19:21	08:31 17:01	08:39 16:00	09:14 15:53
28	08:43 16:49	14:50 (2) 18:00	08:00 19:02	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:35	05:19 21:58	06:24 20:44	07:28 19:18	08:34 16:59	08:41 15:59	09:15 14:02 (2)
29	08:42 16:51	14:52 (2) 18:04	08:00 19:04	06:12 19:04	05:50 21:12	04:50 22:12	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	08:36 16:57	08:43 15:58	09:15 14:01 (2)
30	08:40 16:53	14:54 (2) 18:06	08:00 19:06	06:10 19:06	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:13	08:38 16:54	08:45 15:57	09:15 14:01 (2)
31	08:38 16:55	14:56 (2) 18:08	08:00 19:08	06:07 19:08	05:47 21:16	04:47 22:15	04:37 22:34	05:25 21:52	06:30 20:36	07:40 16:52	08:46 15:57	08:53 14:02 (2)	09:14 15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209	755
Total, worst case	318												755
Sun reduction	0.16												0.10
Oper. time red.	0.89												0.89
Wind dir. red.	0.41												0.41
Total reduction	0.06												0.04
Total, real	18												27

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: N - Shadow Receptor: Mež malnieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:14 15:58 27	14:21 (2) 14:48 (2) 16:58	08:36 18:03	07:29 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:35 19:10	07:43 16:49	08:47 15:56 26	14:08 (2) 14:34 (2)	
2	09:14 16:00 27	14:21 (2) 14:48 (2) 17:00	08:34 18:05	07:26 20:13	05:43 21:18	04:44 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	07:45 16:47	08:49 15:55 26	14:08 (2) 14:34 (2)	
3	09:13 16:01 27	14:22 (2) 14:49 (2) 17:02	08:32 18:07	07:24 20:15	06:59 21:20	05:41 22:19	04:43 22:32	05:31 21:45	06:36 20:27	07:39 19:04	07:47 16:45	08:50 15:54 27	14:08 (2) 14:35 (2)	
4	09:13 16:02 27	14:22 (2) 14:49 (2) 17:05	08:29 18:09	07:21 20:17	06:56 21:23	05:38 22:21	04:42 22:32	05:33 21:43	06:38 20:25	07:41 19:02	07:49 16:43	08:52 15:53 26	14:08 (2) 14:34 (2)	
5	09:12 16:04 27	14:22 (2) 14:49 (2) 17:07	08:27 18:12	07:18 20:20	06:53 21:25	05:36 22:22	04:41 22:31	05:35 21:41	06:40 20:22	07:43 18:59	07:52 16:40	08:54 15:52 27	14:08 (2) 14:35 (2)	
6	09:12 16:05 27	14:23 (2) 14:50 (2) 17:09	08:25 18:14	07:16 20:22	06:51 21:27	05:34 22:23	04:40 22:30	05:37 21:39	06:42 20:19	07:45 18:56	07:54 16:38	08:55 15:51 27	14:09 (2) 14:36 (2)	
7	09:11 16:07 27	14:23 (2) 14:50 (2) 17:12	08:23 18:16	07:13 20:24	06:48 21:29	05:31 22:24	04:39 22:29	05:40 21:36	06:44 20:16	07:47 18:53	07:56 16:36	08:57 15:51 27	14:09 (2) 14:36 (2)	
8	09:11 16:08 26	14:24 (2) 14:50 (2) 17:14	08:21 18:18	07:10 20:26	06:45 21:31	05:29 22:26	04:39 22:26	05:42 21:34	06:47 20:14	07:49 18:51	07:58 16:34	08:58 15:50 27	14:10 (2) 14:37 (2)	
9	09:10 16:10 27	14:24 (2) 14:51 (2) 17:16	08:19 18:21	07:08 20:28	06:42 21:33	05:27 22:27	04:38 22:27	05:44 21:32	06:49 20:11	07:52 18:48	08:01 16:32	09:00 15:49 27	14:10 (2) 14:37 (2)	
10	09:09 16:12 26	14:25 (2) 14:51 (2) 17:19	08:16 18:23	07:05 20:30	06:40 21:35	05:25 22:28	04:37 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49 27	14:11 (2) 14:38 (2)	
11	09:08 16:13 26	14:26 (2) 14:52 (2) 17:21	08:14 18:25	07:02 20:33	06:37 21:37	05:22 22:29	04:36 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:03 15:49 27	14:11 (2) 14:38 (2)	
12	09:07 16:15 25	14:26 (2) 14:51 (2) 17:23	08:12 18:27	07:00 20:35	06:34 21:40	05:20 22:30	04:36 22:24	05:50 21:25	06:55 20:03	07:58 18:40	08:08 16:26	09:04 15:48 27	14:12 (2) 14:39 (2)	
13	09:06 16:17 25	14:27 (2) 14:52 (2) 17:26	08:09 18:30	06:57 20:37	06:32 21:42	05:18 22:30	04:35 22:23	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24	09:05 15:48 27	14:12 (2) 14:39 (2)	
14	09:05 16:19 24	14:27 (2) 14:51 (2) 17:28	08:07 18:32	06:54 20:39	06:29 21:44	05:16 22:31	04:35 22:21	05:54 21:20	06:59 19:57	08:02 18:35	08:12 16:22	09:06 15:48 27	14:12 (2) 14:39 (2)	
15	09:04 16:21 24	14:28 (2) 14:52 (2) 17:31	08:05 18:34	06:51 20:41	06:26 21:46	05:14 22:32	04:35 22:20	05:56 21:17	07:01 19:54	08:05 18:32	08:14 16:20	09:07 15:48 26	14:13 (2) 14:39 (2)	
16	09:02 16:23 22	14:29 (2) 14:51 (2) 17:33	08:02 18:36	06:49 20:43	06:24 21:48	05:12 22:32	04:34 22:19	05:58 21:15	07:03 19:51	08:07 18:29	08:16 16:18	09:08 15:48 27	14:13 (2) 14:40 (2)	
17	09:01 16:25 22	14:30 (2) 14:52 (2) 17:35	08:00 18:38	06:46 20:46	06:21 21:50	05:10 22:33	04:34 22:17	06:00 21:12	07:05 19:49	08:09 18:27	08:19 16:16	09:09 15:48 26	14:14 (2) 14:40 (2)	
18	09:00 16:27 20	14:31 (2) 14:51 (2) 17:37	07:57 18:41	06:43 20:48	06:18 21:52	05:08 22:34	04:34 22:16	06:03 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48 27	14:14 (2) 14:41 (2)	
19	08:58 16:29 18	14:32 (2) 14:50 (2) 17:40	07:55 18:43	06:40 20:50	06:16 21:54	05:06 22:34	04:34 22:14	06:05 21:07	07:09 19:43	08:13 18:21	08:23 16:13	09:11 15:48 26	14:15 (2) 14:41 (2)	
20	08:57 16:31 16	14:33 (2) 14:49 (2) 17:42	07:52 18:45	06:38 20:52	06:13 21:56	05:04 22:34	04:34 22:12	06:07 21:05	07:11 19:40	08:16 18:19	08:25 16:11	9 14:13 (2) 14:22 (2)	09:11 15:48 26	14:15 (2) 14:41 (2)
21	08:55 16:33 13	14:36 (2) 14:49 (2) 17:44	07:50 18:47	06:35 20:54	06:11 21:57	05:02 22:35	04:34 22:11	06:06 21:02	07:14 19:38	08:18 18:16	08:27 16:09	13 14:24 (2)	09:12 15:49 26	14:16 (2) 14:42 (2)
22	08:54 16:35 9	14:38 (2) 14:47 (2) 17:47	07:47 18:49	06:32 20:57	06:08 21:59	05:01 22:35	04:34 22:09	06:11 20:59	07:16 19:35	08:20 18:14	08:29 16:08	16 14:25 (2)	09:13 15:49 26	14:16 (2) 14:42 (2)
23	08:52 16:38	14:42 (2) 17:49	07:45 18:51	06:29 20:59	06:05 22:01	04:59 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:11	08:31 16:06	18 14:27 (2)	09:13 15:50 26	14:17 (2) 14:43 (2)
24	08:51 16:40	14:42 (2) 17:51	07:42 18:54	06:26 21:01	06:03 22:03	04:57 22:35	05:12 22:05	06:15 20:54	07:20 19:29	08:25 18:09	08:33 16:05	20 14:28 (2)	09:14 15:50 26	14:17 (2) 14:43 (2)
25	08:49 16:42	14:42 (2) 17:54	07:40 18:56	06:24 21:03	06:00 22:05	04:56 22:35	05:14 22:04	06:17 20:52	07:22 19:26	08:25 17:06	08:35 16:03	22 14:29 (2)	09:14 15:51 27	14:17 (2) 14:44 (2)
26	08:47 16:44	14:42 (2) 17:56	07:37 18:58	06:21 21:05	05:58 22:07	04:54 22:35	05:16 22:02	06:19 20:49	07:24 19:24	08:25 17:04	08:37 16:02	22 14:30 (2)	09:14 15:52 26	14:18 (2) 14:44 (2)
27	08:45 16:46	14:42 (2) 17:58	07:34 18:58	06:18 21:07	05:55 22:08	04:53 22:35	05:17 22:00	06:21 20:46	07:26 19:21	08:31 17:01	08:39 16:00	24 14:31 (2)	09:14 15:53 26	14:18 (2) 14:44 (2)
28	08:43 16:49	14:42 (2) 18:00	07:32 19:02	06:15 21:10	05:53 22:10	04:51 22:35	04:37 22:18	05:19 20:44	06:24 19:18	07:34 16:59	08:41 15:59	24 14:32 (2)	09:15 15:54 26	14:19 (2) 14:45 (2)
29	08:42 16:51	14:42 (2) 20:04	07:32 19:02	06:15 21:10	05:53 22:10	04:51 22:35	04:37 22:18	05:19 20:44	06:24 19:18	07:34 16:59	08:41 15:59	24 14:32 (2)	09:15 15:54 26	14:19 (2) 14:45 (2)
30	08:40 16:53	14:42 (2) 20:07	07:30 19:07	06:13 21:07	05:51 22:08	04:49 22:34	04:35 22:16	05:17 20:46	06:24 19:18	07:34 16:59	08:41 15:59	24 14:32 (2)	09:15 15:54 26	14:19 (2) 14:45 (2)
31	08:38 16:55	14:42 (2) 20:09	07:28 19:09	06:11 21:09	05:49 22:07	04:47 22:34	04:33 22:14	05:15 20:46	06:24 19:18	07:34 16:59	08:41 15:59	24 14:32 (2)	09:15 15:54 26	14:19 (2) 14:45 (2)
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209	822	
Total, worst case	512												822	
Sun reduction	0.16												0.10	
Oper. time red.	0.89												0.89	
Wind dir. red.	0.45												0.45	
Total reduction	0.06												0.04	
Total, real	32												32	

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 - Shadow Receptor: Popes kartupelu pagrabs

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:26	07:02	05:43	04:44	04:40	05:29	06:34	07:37	07:45	08:49
	15:59	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:11	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:47	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:16	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:49
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:36	04:50	05:48	06:53	07:56	08:05	09:03
	16:13	17:21	18:25	20:33	21:37	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:25	15:48
13	09:06	08:09	06:57	06:32	05:18	04:35	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:19	21:15	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	04:59	06:00	07:05	08:09	08:19	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:37	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:21	16:13	15:48
20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:11	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:34	22:12	21:05	19:40	18:19	16:11	15:48
21	08:55	07:50	06:35	06:10	05:02	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:35	22:11	21:02	19:38	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
	16:35	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:37	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:25	08:33	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	08:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:52	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	08:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:17	06:21	07:26	08:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	18:01	16:00	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	08:34	08:41	09:15
	16:49	18:00	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:59	15:54
29	08:42	07:31	06:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:15
	16:51	18:04	19:06	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:57	15:55
30	08:40	07:30	06:11	05:48	04:48	04:38	05:23	06:28	07:32	08:38	08:45	09:14
	16:53	18:07	19:09	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:54	15:56
31	08:38	07:29	06:09	05:47	04:47	04:38	05:25	06:30	07:34	08:40	08:47	09:14
	16:55	18:10	19:12	21:16	22:15	22:35	21:52	20:35	19:10	18:00	16:52	15:57
Potential sun hours	229	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: P - Shadow Receptor: Druvnieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:26	07:02	05:43	04:44	04:40	05:29	06:34	07:37	07:45	08:49
	15:59	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:39	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:11	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:47	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:16	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:49
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:36	04:50	05:48	06:53	07:56	08:05	09:03
	16:13	17:21	18:25	20:33	21:37	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:40	22:29	22:24	21:25	20:03	18:40	16:25	15:48
13	09:06	08:09	06:57	06:32	05:18	04:35	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:19	21:15	19:51	18:29	16:18	15:48
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18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:02	07:07	08:11	08:21	09:10
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	16:35	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:37	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:40	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:51	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:15	06:19	07:24	07:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:17	06:21	07:26	07:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	18:01	16:00	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	07:34	08:41	09:14
	16:49	18:00	19:02	21:10	22:10	22:34	21:58	20:44	19:18	18:00	16:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:15
	16:51		20:04	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:56	15:55
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:14
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:54	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
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Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
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Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	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: Q - Shadow Receptor: Kukš i
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

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

Shadow receptor: R - Shadow Receptor: Girti
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Operational time

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3,899	3,899	7,798

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	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:26	07:02	05:43	04:44	04:40	05:29	06:34	07:37	07:45	08:49
	15:59	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:23	22:21	22:32	21:43	20:25	19:02	16:42	15:53
5	09:13	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
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6	09:12	08:25	07:16	06:51	05:33	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
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	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:11	08:21	07:10	06:45	05:29	04:38	04:46	05:42	06:46	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:16	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:49
10	09:09	08:16	07:05	06:40	05:24	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:36	04:50	05:48	06:53	07:56	08:05	09:03
	16:13	17:21	18:25	20:33	21:37	22:29	22:25	21:27	20:05	18:43	16:27	15:49
12	09:07	08:12	06:59	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:40	22:29	22:24	21:24	20:03	18:40	16:25	15:48
13	09:06	08:09	06:57	06:32	05:18	04:35	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:29	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:23	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:19	21:15	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	04:59	06:00	07:05	08:09	08:19	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:02	07:07	08:11	08:21	09:10
	16:27	17:37	18:40	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:21	16:12	15:48
20	08:57	07:52	06:38	06:13	05:04	04:34	05:04	06:07	07:11	08:16	08:25	09:11
	16:31	17:42	18:45	20:52	21:56	22:34	22:12	21:05	19:40	18:19	16:11	15:48
21	08:55	07:50	06:35	06:10	05:02	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:35	22:11	21:02	19:37	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
	16:35	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:37	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:39	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:51	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:15	06:19	07:24	07:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:52	04:36	05:17	06:21	07:26	07:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	18:01	16:00	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:23	07:28	07:33	08:41	09:14
	16:49	18:00	19:02	21:10	22:10	22:34	21:58	20:44	19:18	18:00	16:59	15:54
29	08:42		07:13	05:50	04:50	04:37	05:21	06:26	07:30	07:36	08:43	09:15
	16:51		20:04	21:12	22:12	22:34	21:56	20:41	19:15	18:00	16:56	15:58
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:14
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:54	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:55		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	229	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: S - Shadow Receptor: Pakraujas
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:26	07:02	05:43	04:44	04:40	05:29	06:34	07:37	07:45	08:49
	15:59	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:23	22:20	22:32	21:43	20:25	19:02	16:43	15:53
5	09:12	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:11	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:46	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:16	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:49
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:36	04:50	05:48	06:53	07:56	08:05	09:03
	16:13	17:21	18:25	20:33	21:37	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	07:00	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:40	22:29	22:24	21:24	20:03	18:40	16:25	15:48
13	09:06	08:09	06:57	06:32	05:18	04:35	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:19	21:15	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	04:59	06:00	07:05	08:09	08:19	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:02	07:07	08:11	08:21	09:10
	16:27	17:37	18:40	20:48	21:52	22:33	22:16	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:21	16:13	15:48
20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:11	08:16	08:25	09:11
	16:31	17:42	18:45	20:52	21:56	22:34	22:12	21:04	19:40	18:19	16:11	15:48
21	08:55	07:50	06:35	06:10	05:02	04:34	05:06	06:09	07:14	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:35	22:11	21:02	19:38	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
	16:35	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:37	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:39	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:51	19:26	17:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	07:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:35	22:02	20:49	19:24	17:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:17	06:21	07:26	07:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	17:01	16:00	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	07:33	08:41	09:14
	16:49	18:00	19:02	21:10	22:10	22:34	21:58	20:44	19:18	16:59	15:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:14
	16:51		20:04	21:12	22:12	22:34	21:56	20:41	19:15	16:56	15:58	15:55
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:14
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	16:54	15:57	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:55		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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)

Project:

Sarce 1. alternativa

Licensed user:

Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
Peteris Blumats / info@enviro.lv
Calculated:
29/09/2021 15:41/3.4.424

SHADOW - Calendar

Shadow receptor: T - Shadow Receptor: Tirumi
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
1.16 2.12 4.45 6.25 9.03 9.67 9.68 8.42 5.40 2.84 1.20 0.65

Operational time
0 1 Sum
3,899 3,899 7,798

Table with columns for months (January to December) and rows for time intervals (09:14 to 16:55). Includes summary rows for Potential sun hours, Total, worst case, Sun reduction, Oper. time red., Wind dir. red., Total reduction, and Total, real.

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

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

Project:

Sarce 1. alternativa

Licensed user:

Enviroprojekts, SIA
 Maza Nometnu iela 31
 LV-1002 Riga
 +37129262684
 Peteris Blumats / info@enviro.lv
 Calculated:
 29/09/2021 15:41/3.4.424

SHADOW - Calendar

Shadow receptor: U - Shadow Receptor: Krauli
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:34 19:10	07:43 16:49	16:07 (2) 16:14 (2)	08:47 15:56
2	09:14 15:59	08:34 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:44 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	07:45 16:47		08:49 15:55
3	09:13 16:01	08:32 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	07:39 19:04	07:39 16:45		08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	05:38 21:23	04:42 22:20	04:42 22:32	05:33 21:43	06:38 20:25	07:41 19:02	07:49 16:43		08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:20	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	07:43 18:59	07:52 16:40		08:54 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:37 21:39	06:42 20:19	07:45 18:56	07:54 16:38		08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	07:47 18:53	07:56 16:36		08:57 15:51
8	09:11 16:08	08:21 17:14	07:10 18:18	06:45 20:26	05:29 21:31	04:39 22:25	04:46 22:28	05:42 21:34	06:47 20:14	07:49 18:51	07:58 16:34		08:58 15:50
9	09:10 16:10	08:19 17:16	07:08 18:21	06:42 20:28	05:27 21:33	04:38 22:27	04:48 22:27	05:44 21:32	06:49 20:11	07:52 18:48	08:01 16:32		09:00 15:49
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	05:25 21:35	04:37 22:28	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30		09:01 15:49
11	09:08 16:13	08:14 17:21	07:02 18:25	06:37 20:33	05:22 21:37	04:36 22:29	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28		09:02 15:49
12	09:07 16:15	08:12 17:23	07:00 18:27	06:34 20:35	05:20 21:39	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:03	07:58 18:40	08:07 16:26		09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:30	06:32 20:37	05:18 21:42	04:35 22:30	04:53 22:23	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24		09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	05:16 21:44	04:35 22:31	04:55 22:21	05:54 21:20	06:59 19:57	08:02 18:35	08:12 16:22		09:06 15:48
15	09:04 16:21	08:04 17:30	06:51 18:34	06:26 20:41	05:14 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	08:05 18:32	08:14 16:20		09:07 15:48
16	09:02 16:23	08:02 17:33	06:49 18:36	06:24 20:43	05:12 21:48	04:34 22:32	04:58 22:19	05:58 21:15	07:03 19:51	08:07 18:29	17:11 (2) 17:16 (2)		08:16 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	06:21 20:46	05:10 21:50	04:34 22:33	04:59 22:17	06:00 21:12	07:05 19:49	08:09 18:27	17:07 (2) 17:20 (2)		08:19 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	06:18 20:48	05:08 21:52	04:34 22:33	05:01 22:16	06:03 21:10	07:07 19:46	08:11 18:24	17:05 (2) 17:21 (2)		08:21 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	06:16 20:50	05:06 21:54	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	08:13 18:21	17:03 (2) 17:22 (2)		08:23 15:48
20	08:57 16:31	07:52 17:42	06:38 18:45	06:13 20:52	05:04 21:55	04:34 22:34	05:05 22:12	06:07 21:04	07:11 19:40	08:16 18:19	17:02 (2) 17:23 (2)		08:25 15:48
21	08:55 16:33	07:50 17:44	06:35 18:47	06:10 20:54	05:02 21:57	04:34 22:35	05:06 22:11	06:09 21:02	07:14 19:37	08:18 18:16	17:01 (2) 17:23 (2)		08:27 15:49
22	08:54 16:35	07:47 17:47	06:32 18:49	06:08 20:57	05:01 21:59	04:34 22:35	05:08 22:09	06:11 20:59	07:16 19:35	08:20 18:14	17:00 (2) 17:23 (2)		08:29 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:11	17:00 (2) 17:24 (2)		08:31 15:50
24	08:50 16:40	07:42 17:51	06:26 18:54	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:05	06:15 20:54	07:20 19:29	08:24 18:09	17:00 (2) 17:24 (2)		08:33 15:50
25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:04	06:17 20:51	07:22 19:26	07:27 17:06	16:00 (2) 16:24 (2)		08:35 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	05:58 21:05	04:54 22:06	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	07:29 17:04	16:00 (2) 16:23 (2)		08:37 15:52
27	08:45 16:46	07:34 17:58	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:35	05:17 22:00	06:21 20:46	07:26 19:21	07:31 17:01	16:01 (2) 16:23 (2)		08:39 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:44	07:28 19:18	07:33 16:59	16:01 (2) 16:22 (2)		08:41 15:54
29	08:41 16:51	07:32 18:00	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:44	07:28 19:18	07:33 16:59	16:01 (2) 16:22 (2)		08:41 15:54
30	08:40 16:53	07:32 18:00	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:44	07:28 19:18	07:33 16:59	16:01 (2) 16:22 (2)		08:41 15:54
31	08:38 16:55	07:32 18:00	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:44	07:28 19:18	07:33 16:59	16:01 (2) 16:22 (2)		08:41 15:54
Potential sun hours	230	263	307	366	429	513	536	536	473	385	322	243	209
Total, worst case			307								305		
Sun reduction			0.23								0.27		7
Oper. time red.			0.89								0.89		0.15
Wind dir. red.			0.84								0.84		0.89
Total reduction			0.17								0.20		0.84
Total, real			52								62		1

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: V - Shadow Receptor: Kurzemnieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:26	07:02	05:43	04:44	04:40	05:29	06:34	07:37	07:45	08:49
	15:59	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:23	22:20	22:32	21:43	20:25	19:02	16:43	15:53
5	09:12	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:10	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:46	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:18	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
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10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:36	04:50	05:48	06:53	07:56	08:05	09:02
	16:13	17:21	18:25	20:33	21:37	22:29	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	06:59	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:39	22:29	22:24	21:24	20:03	18:40	16:25	15:48
13	09:06	08:09	06:57	06:32	05:18	04:35	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:29	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:04	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:18	21:15	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	04:59	06:00	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:02	07:07	08:11	08:21	09:10
	16:27	17:37	18:40	20:48	21:52	22:33	22:16	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:21	16:13	15:48
20	08:57	07:52	06:38	06:13	05:04	04:34	05:05	06:07	07:11	08:16	08:25	09:11
	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:48
21	08:55	07:50	06:35	06:10	05:02	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:35	22:11	21:02	19:37	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:13
	16:35	17:47	18:49	20:56	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:37	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:14
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:39	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:51	19:26	17:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	07:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:35	22:02	20:49	19:24	17:04	16:02	15:52
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	16:49	18:00	19:02	21:10	22:10	22:34	21:58	20:43	19:18	16:59	15:59	15:54
29	08:41		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:14
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30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:14
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	16:54	15:57	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:55		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: W - Shadow Receptor: Mež lodes
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:49	15:56
2	09:14	08:34	07:26	07:02	05:43	04:44	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:32	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:23	22:20	22:31	21:43	20:25	19:02	16:43	15:53
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	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
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	16:17	17:26	18:29	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
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15	09:04	08:04	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:18	21:15	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	04:59	06:00	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:02	07:07	08:11	08:21	09:10
	16:27	17:37	18:40	20:48	21:52	22:33	22:15	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:21	16:13	15:48
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	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:48
21	08:55	07:50	06:35	06:10	05:02	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:34	22:11	21:02	19:37	18:16	16:09	15:49
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	16:35	17:47	18:49	20:56	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:37	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:13
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:39	06:24	06:00	04:56	04:35	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:51	19:26	17:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	07:29	08:37	09:14
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	16:46	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	17:01	16:00	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	07:33	08:41	09:14
	16:49	18:00	19:02	21:10	22:10	22:34	21:58	20:43	19:18	16:59	15:59	15:54
29	08:41		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	16:56	15:58	15:55
30	08:40		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:14
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	16:54	15:57	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:55		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: X - Shadow Receptor: Kroji
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:34 19:10	18:16 (2) 18:38 (2)	07:43 16:49	08:47 15:56
2	09:14 16:00	08:34 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	18:16 (2) 18:36 (2)	07:45 16:47	08:49 15:55
3	09:13 16:01	08:32 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	07:39 19:04	18:17 (2) 18:33 (2)	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	05:38 21:23	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	07:41 19:02	18:18 (2) 18:30 (2)	07:49 16:43	08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:20	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	07:43 18:59	18:20 (2) 18:27 (2)	07:52 16:40	08:54 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:37 21:39	06:42 20:19	07:45 18:56	18:27 (2)	07:54 16:38	08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	07:47 18:53	18:27 (2)	07:56 16:36	08:57 15:51
8	09:10 16:08	08:21 17:14	07:10 18:18	06:45 20:26	05:29 21:31	04:39 22:25	04:46 22:28	05:42 21:34	06:46 20:14	07:49 18:51	18:27 (2)	07:58 16:34	08:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	06:42 20:28	05:27 21:33	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	07:52 18:48	18:27 (2)	08:01 16:32	09:00 15:49
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	05:25 21:35	04:37 22:28	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	18:27 (2)	08:03 16:30	09:01 15:49
11	09:08 16:13	08:14 17:21	07:02 18:25	06:37 20:33	05:22 21:37	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	18:27 (2)	08:05 16:28	09:02 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	06:34 20:35	05:20 21:39	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:03	07:58 18:40	18:27 (2)	08:07 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	06:32 20:37	05:18 21:42	04:35 22:30	04:53 22:23	05:52 21:22	06:57 20:00	08:00 18:37	18:27 (2)	08:10 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	05:16 21:44	04:35 22:31	04:55 22:21	05:54 21:20	06:59 19:57	08:02 18:35	17:16 (3)	08:12 16:22	09:06 15:48
15	09:04 16:21	08:04 17:30	06:51 18:34	06:26 20:41	05:14 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	08:05 18:32	17:12 (3)	08:14 16:20	09:07 15:48
16	09:02 16:23	08:02 17:33	06:49 18:36	06:24 20:43	05:12 21:48	04:34 22:32	04:58 22:18	05:58 21:15	07:03 19:51	08:07 18:29	17:10 (3)	08:16 16:18	09:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	06:21 20:46	05:10 21:50	04:34 22:33	04:59 22:17	06:00 21:12	07:05 19:49	08:09 18:27	17:09 (3)	08:18 16:16	09:09 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	06:18 20:48	05:08 21:52	04:34 22:33	05:01 22:15	06:03 21:10	07:07 19:46	08:11 18:24	17:08 (3)	08:21 16:14	09:10 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	06:16 20:50	05:06 21:54	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	08:13 18:21	17:07 (3)	08:23 16:13	09:11 15:48
20	08:57 16:31	07:52 17:42	06:37 18:45	06:13 20:52	05:04 21:55	04:34 22:34	05:05 22:12	06:07 21:04	07:11 19:40	08:16 18:19	17:07 (3)	08:25 16:11	09:11 15:48
21	08:55 16:33	07:50 17:44	06:35 18:47	06:10 20:54	05:02 21:57	04:34 22:34	05:06 22:11	06:09 21:02	07:13 19:37	08:18 18:36	17:06 (3)	08:27 16:09	09:12 15:49
22	08:54 16:35	07:47 17:47	06:32 18:49	06:08 20:56	05:01 21:59	04:34 22:35	05:08 22:09	06:11 20:59	07:16 19:35	08:20 18:38	17:05 (3)	08:29 16:08	09:13 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:19 18:39	17:04 (3)	08:31 16:06	09:13 15:50
24	08:50 16:40	07:42 17:51	06:26 18:54	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:05	06:15 20:54	07:20 19:29	08:24 18:40	17:03 (3)	08:33 16:05	09:13 15:50
25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:04	06:17 20:51	07:22 19:26	08:27 18:40	17:02 (3)	08:35 16:03	09:14 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	05:58 21:05	04:54 22:06	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	08:29 18:40	17:02 (3)	08:37 16:02	09:14 15:52
27	08:45 16:46	07:34 17:58	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:35	05:17 22:00	06:21 20:46	07:26 19:21	08:31 18:40	17:01 (3)	08:39 16:00	09:14 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:43	07:28 19:18	08:33 18:15	17:03 (3)	08:41 16:25	09:14 15:54
29	08:41 16:51	07:29 18:04	06:13 19:04	05:51 21:12	04:49 22:11	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	08:35 18:39	17:03 (3)	08:43 16:21	09:14 15:55
30	08:40 16:53	07:27 18:07	06:11 19:07	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:13	08:37 18:39	17:03 (3)	08:45 16:19	09:14 15:56
31	08:38 16:55	07:25 18:11	06:09 19:11	05:47 21:15	04:47 22:15	04:38 22:34	05:25 21:52	06:30 20:35	07:40 16:52	08:40 18:16	17:03 (3)	08:47 16:19	09:14 15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209	
Total, worst case		317	282						209	400			
Sun reduction		0.23	0.38						0.42	0.27			
Oper. time red.		0.89	0.89						0.89	0.89			
Wind dir. red.		0.85	0.97						0.97	0.87			
Total reduction		0.17	0.32						0.36	0.21			
Total, real		53	91						75	84			

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: Y - Shadow Receptor: Vinkalni
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	08:36 16:58	07:29 18:03	16:49 (3) 17:05 (3)	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:34 19:10	07:43 16:49	08:47 15:56
2	09:14 16:00	08:34 17:00	07:26 18:05	16:51 (3) 17:03 (3)	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	07:45 16:47	08:49 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	07:24 20:15	06:59 21:20	05:41 22:19	04:43 22:32	04:41 21:45	05:31 20:27	06:36 19:04	07:39 19:04	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	07:21 20:17	06:56 21:23	05:38 22:20	04:42 22:31	05:33 21:43	06:38 20:25	07:41 19:02	07:49 16:43	08:52 15:53	
5	09:12 16:04	08:27 17:07	07:18 18:12	07:18 20:20	06:53 21:25	05:36 22:22	04:41 22:31	05:35 21:41	06:40 20:22	07:43 18:59	07:52 16:40	08:54 15:52	
6	09:12 16:05	08:25 17:09	07:16 18:14	07:16 20:22	06:51 21:27	05:34 22:23	04:40 22:30	05:37 21:39	06:42 20:19	07:45 18:56	07:54 16:38	08:55 15:51	
7	09:11 16:07	08:23 17:12	07:13 18:16	07:13 20:24	06:48 21:29	05:31 22:24	04:39 22:29	05:40 21:36	06:44 20:16	07:47 18:53	07:56 16:36	08:57 15:51	
8	09:10 16:08	08:21 17:14	07:10 18:18	07:10 20:26	06:45 21:31	05:29 22:31	04:39 22:28	05:42 21:34	06:46 20:14	07:49 18:51	07:58 16:34	08:58 15:50	
9	09:10 16:10	08:18 17:16	07:08 18:21	07:08 20:28	06:42 21:33	05:27 22:26	04:38 22:27	05:44 21:32	06:49 20:11	07:52 18:48	08:01 16:32	09:00 15:49	
10	09:09 16:12	08:16 17:19	07:05 18:23	07:05 20:30	06:40 21:35	05:25 22:27	04:37 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49	
11	09:08 16:13	08:14 17:21	07:02 18:25	07:02 20:33	06:37 21:37	05:22 22:28	04:37 22:25	05:48 21:27	06:53 20:05	7 07:56 18:43	7 17:28 (3) 16:28	08:05 15:49	09:02 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	06:59 20:35	06:34 21:39	05:20 22:29	04:36 22:24	05:50 21:24	06:55 20:03	07:58 18:40	14 17:24 (3) 16:26	08:07 15:48	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	06:57 20:37	05:18 21:42	04:35 22:30	04:53 22:23	05:52 21:22	06:57 20:00	08:00 18:37	17 17:22 (3) 16:24	08:10 15:48	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:54 20:39	05:16 21:44	04:35 22:31	04:55 22:21	05:54 21:20	06:59 19:57	08:02 18:35	19 17:19 (3) 16:22	08:12 15:48	09:06 15:48
15	09:04 16:21	08:04 17:30	16:57 (3) 18:34	06:51 20:41	06:26 21:46	05:14 22:32	04:35 22:20	05:56 21:17	07:01 19:54	08:05 18:32	22 17:19 (3) 16:20	08:14 15:48	09:07 15:48
16	09:02 16:23	08:02 17:33	16:53 (3) 18:36	06:49 20:43	06:24 21:48	05:12 22:32	04:34 22:18	05:58 21:15	07:03 19:51	08:07 18:29	23 17:18 (3) 16:18	08:16 15:48	09:08 15:48
17	09:01 16:25	08:00 17:35	16:51 (3) 18:38	06:46 20:46	06:21 21:50	05:10 22:33	04:34 22:17	06:00 21:12	07:05 19:49	08:09 18:27	24 17:18 (3) 16:16	08:18 15:48	09:09 15:48
18	09:00 16:27	07:57 17:37	16:50 (3) 18:40	06:43 20:48	06:18 21:52	05:08 22:33	04:34 22:15	06:03 21:10	07:07 19:46	08:11 18:24	23 17:18 (3) 16:14	08:21 15:48	09:10 15:48
19	08:58 16:29	07:55 17:40	16:48 (3) 18:43	06:40 20:50	06:16 21:54	05:06 22:34	04:34 22:14	06:05 21:07	07:09 19:43	08:13 18:21	24 17:17 (3) 16:13	08:23 15:48	09:11 15:48
20	08:57 16:31	07:52 17:42	16:47 (3) 18:45	06:37 20:52	06:13 21:55	05:04 22:34	04:34 22:12	06:07 21:04	07:11 19:40	08:16 18:19	23 17:18 (3) 16:11	08:25 15:48	09:11 15:48
21	08:55 16:33	07:50 17:44	16:47 (3) 18:47	06:35 20:54	06:10 21:57	05:02 22:34	04:34 22:11	06:09 21:02	07:13 19:37	08:18 18:16	22 17:18 (3) 16:09	08:27 15:49	09:12 15:49
22	08:54 16:35	07:47 17:47	16:46 (3) 18:49	06:32 20:56	06:08 21:59	05:01 22:35	04:34 22:09	06:11 20:59	07:16 19:35	08:20 18:14	21 17:18 (3) 16:08	08:29 15:49	09:13 15:49
23	08:52 16:38	07:45 17:49	16:46 (3) 18:51	06:29 20:59	06:05 22:01	04:59 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:11	19 17:19 (3) 16:06	08:31 15:50	09:13 15:50
24	08:50 16:40	07:42 17:51	16:47 (3) 18:54	06:26 21:01	06:03 22:03	04:57 22:35	05:12 22:05	06:15 20:54	07:20 19:29	08:24 18:09	16 17:19 (3) 16:05	08:33 15:50	09:13 15:50
25	08:49 16:42	07:39 17:54	16:46 (3) 18:56	06:24 21:03	06:00 22:05	04:56 22:35	05:14 22:04	06:17 20:51	07:22 19:26	07:27 17:06	12 16:21 (3) 16:03	08:35 15:51	09:14 15:51
26	08:47 16:44	07:37 17:56	16:46 (3) 18:58	06:21 21:05	05:58 22:06	04:54 22:35	05:16 22:02	06:19 20:49	07:24 19:24	07:29 17:04	7 16:33 (3) 16:02	08:37 15:52	09:14 15:52
27	08:45 16:46	07:34 17:58	16:47 (3) 19:00	06:18 21:07	05:55 22:08	04:53 22:35	05:17 22:00	06:21 20:46	07:26 19:21	07:31 17:01	17 16:23 (3) 16:00	08:39 15:53	09:14 15:53
28	08:43 16:49	07:32 18:00	16:48 (3) 19:02	06:15 21:02	05:53 22:10	04:51 22:34	05:19 21:58	06:24 20:43	07:28 19:18	07:33 16:59	16 16:30 (3) 16:02	08:41 15:54	09:14 15:54
29	08:41 16:51		07:13 20:04	05:50 21:12	04:50 22:11	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	07:36 16:56	15 16:33 (3) 16:02	08:43 15:55	09:14 15:55
30	08:40 16:53		07:10 20:07	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:13	07:38 16:54	14 16:30 (3) 16:02	08:45 15:56	09:14 15:56
31	08:38 16:55		07:07 20:09	05:47 22:15	04:47 22:15	04:37 21:52	05:19 20:35	06:30 20:35	07:40 16:52	07:40 16:52	13 16:30 (3) 16:02	08:45 15:57	09:14 15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209	
Total, worst case												293	
Sun reduction		0.23		0.38								0.27	
Oper. time red.		0.89		0.89								0.89	
Wind dir. red.		0.88		0.88								0.88	
Total reduction		0.18		0.29								0.21	
Total, real		46		8								63	

Table 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 - Shadow Receptor: Salini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June		
1	09:14 15:58	08:36 16:58	15:41 (4) 16:05 (4)	07:29 18:03	16:50 (3) 17:14 (3)	07:04 20:11	04:46 22:16	
2	09:14 16:00	08:34 17:00	15:42 (4) 16:06 (4)	07:26 18:05	16:51 (3) 17:13 (3)	07:02 20:13	04:45 22:18	
3	09:13 16:01	08:31 17:02	15:43 (4) 16:06 (4)	07:24 18:07	16:52 (3) 17:12 (3)	06:59 20:15	04:43 22:19	
4	09:13 16:02	08:29 17:05	15:44 (4) 16:06 (4)	07:21 18:09	16:53 (3) 17:10 (3)	06:56 20:17	04:42 22:20	
5	09:12 16:04	08:27 17:07	15:44 (4) 16:05 (4)	07:18 18:12	16:55 (3) 17:08 (3)	06:53 20:20	04:41 22:22	
6	09:12 16:05	08:25 17:09	15:45 (4) 16:04 (4)	07:16 18:14	16:59 (3) 17:03 (3)	06:51 20:22	04:40 22:23	
7	09:11 16:07	08:23 17:12	15:46 (4) 16:02 (4)	07:13 18:16	17:03 (3) 20:24	21:27 21:29	22:23 22:24	
8	09:10 16:08	08:21 17:14	15:49 (4) 16:01 (4)	07:10 18:18	17:10 (3) 20:26	06:45 21:31	05:29 22:25	
9	09:10 16:10	08:18 17:16	15:51 (4) 15:58 (4)	07:08 18:21	17:14 (3) 20:28	06:42 21:33	05:27 22:26	
10	09:09 16:12	08:16 17:19	15:58 (4) 17:37	07:05 18:23	17:16 (3) 20:30	06:40 21:35	05:25 22:27	
11	09:08 16:13	08:14 17:21	17:37 18:25	07:02 18:25	17:17 (3) 20:33	06:37 21:37	05:22 22:28	
12	09:07 16:15	08:12 17:23	18:27 18:27	06:59 18:27	17:18 (3) 20:35	06:34 21:39	05:20 22:29	
13	09:06 16:17	08:09 17:26	18:29 18:29	06:57 18:29	17:19 (3) 20:37	06:32 21:42	05:18 22:30	
14	09:05 16:19	08:07 17:28	18:32 18:32	06:54 18:32	17:20 (3) 20:39	06:29 21:44	05:16 22:31	
15	09:04 16:21	08:04 17:30	18:34 18:34	06:51 18:34	17:56 (2) 18:05 (2)	06:26 20:41	05:14 21:46	04:35 22:32
16	09:02 16:23	08:02 17:33	18:36 18:36	06:49 18:36	17:54 (2) 18:07 (2)	06:24 20:43	05:12 21:48	04:34 22:32
17	09:01 16:25	08:00 17:35	18:38 18:38	06:46 18:38	17:53 (2) 18:10 (2)	06:21 20:46	05:10 21:50	04:34 22:33
18	09:00 16:27	07:57 17:37	17:00 (3) 17:06 (3)	06:43 18:40	17:51 (2) 18:12 (2)	06:18 20:48	05:08 21:52	04:34 22:33
19	08:58 16:29	15:48 (4) 07:55	16:56 (3) 17:08 (3)	06:40 18:43	17:50 (2) 18:12 (2)	06:16 20:50	05:06 21:54	04:34 22:34
20	08:57 16:31	15:46 (4) 15:51 (4)	07:52 17:42	16:54 (3) 17:10 (3)	06:37 18:45	06:13 20:52	05:04 21:55	04:34 22:34
21	08:55 16:33	15:44 (4) 15:53 (4)	07:50 17:44	16:53 (3) 17:14 (3)	06:35 18:47	06:10 20:54	05:03 21:57	04:34 22:34
22	08:54 16:35	15:44 (4) 15:57 (4)	07:47 17:47	16:52 (3) 17:14 (3)	06:32 18:49	06:08 20:56	05:01 21:59	04:34 22:35
23	08:52 16:38	15:43 (4) 15:59 (4)	07:45 17:49	16:51 (3) 17:14 (3)	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35
24	08:50 16:40	15:43 (4) 16:02 (4)	07:42 17:51	16:51 (3) 17:15 (3)	06:26 18:54	06:03 21:01	04:57 22:03	04:35 22:35
25	08:49 16:42	15:42 (4) 16:03 (4)	07:39 17:54	16:50 (3) 17:15 (3)	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35
26	08:47 16:44	15:42 (4) 16:04 (4)	07:37 17:56	16:50 (3) 17:15 (3)	06:21 18:58	05:58 21:05	04:54 22:06	04:36 22:35
27	08:45 16:46	15:41 (4) 16:04 (4)	07:34 17:58	16:51 (3) 17:15 (3)	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:35
28	08:43 16:49	15:41 (4) 16:05 (4)	07:32 18:00	16:50 (3) 17:15 (3)	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:34
29	08:41 16:51	15:41 (4) 16:05 (4)	07:31 18:04	17:13 (3) 20:04	18:54 (2) 19:01 (2)	05:50 21:12	04:50 22:11	04:38 22:34
30	08:40 16:53	15:41 (4) 16:06 (4)	07:30 20:07	17:10 (3) 20:07	19:01 (2) 21:14	05:48 22:13	04:48 22:13	04:38 22:34
31	08:38 16:55	15:42 (4) 16:06 (4)	07:29 20:09	17:07 (3) 20:09	21:14 22:15	04:47 22:15	04:38 22:34	04:38 22:34
Potential sun hours	230	263	366	429	513	536		
Total, worst case	226	391	379					
Sun reduction	0.16	0.23	0.38					
Oper. time red.	0.89	0.89	0.89					
Wind dir. red.	0.69	0.81	0.96					
Total reduction	0.09	0.15	0.31					
Total, real	21	60	117					

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

Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes 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: Z - Shadow Receptor: Salini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	July	August	September	October	November	December
1	04:39	05:27	06:32	07:34	07:43	08:47
	22:33	21:50	20:33	19:10	16:49	15:56
2	04:40	05:29	06:34	07:37	07:45	08:49
	22:33	21:47	20:30	19:07	16:47	15:20 (4)
3	04:41	05:31	06:36	07:39	07:47	08:50
	22:32	21:45	20:27	19:04	16:45	15:18 (4)
4	04:42	05:33	06:38	07:41	07:49	08:52
	22:31	21:43	20:25	19:02	16:43	15:31 (4)
5	04:43	05:35	06:40	07:43	07:52	08:54
	22:31	21:41	20:22	18:59	16:40	15:15 (4)
6	04:44	05:37	06:42	07:45	07:54	08:55
	22:30	21:39	20:19	18:56	16:38	15:13 (4)
7	04:45	05:40	06:44	07:47	07:56	08:57
	22:29	21:36	20:16	18:53	16:36	15:11 (4)
8	04:46	05:42	06:46	07:49	07:58	08:58
	22:28	21:34	20:14	18:51	17:32 (3)	15:13 (4)
9	04:48	05:44	06:49	07:52	08:01	09:00
	22:27	21:32	20:11	18:48	17:41 (3)	15:13 (4)
10	04:49	05:46	06:51	07:54	08:03	09:01
	22:26	21:29	20:08	18:45	17:29 (3)	15:36 (4)
11	04:50	05:48	06:53	07:56	08:05	09:02
	22:25	21:27	20:05	18:43	17:44 (3)	15:37 (4)
12	04:52	05:50	06:55	07:58	08:07	09:04
	22:24	21:24	20:03	18:40	17:47 (3)	15:13 (4)
13	04:53	05:52	06:57	08:00	08:10	09:05
	22:23	21:22	20:00	18:37	17:47 (3)	15:38 (4)
14	04:55	05:54	06:59	18:46 (2)	08:12	09:06
	22:21	21:20	19:57	18:35	17:48 (3)	15:14 (4)
15	04:56	05:56	07:01	18:41 (2)	08:14	09:07
	22:20	21:17	19:54	18:32	17:48 (3)	15:37 (4)
16	04:58	05:58	07:03	18:39 (2)	08:16	09:08
	22:18	21:15	19:51	18:29	17:47 (3)	15:15 (4)
17	05:00	06:00	07:05	18:37 (2)	08:18	09:09
	22:17	21:12	19:49	18:27	17:47 (3)	15:37 (4)
18	05:01	06:03	07:07	18:36 (2)	08:21	09:10
	22:15	21:10	19:46	18:24	17:46 (3)	15:17 (4)
19	05:03	06:05	07:09	18:36 (2)	08:23	09:11
	22:14	21:07	19:43	18:21	17:45 (3)	15:36 (4)
20	05:05	06:07	07:11	18:35 (2)	08:25	09:11
	22:12	21:04	19:40	18:19	17:44 (3)	15:19 (4)
21	05:06	06:09	07:13	18:34 (2)	08:27	09:12
	22:11	21:02	19:37	18:16	17:43 (3)	15:32 (4)
22	05:08	06:11	07:16	18:34 (2)	08:29	09:13
	22:09	20:59	19:35	18:14	17:42 (3)	15:22 (4)
23	05:10	06:13	07:18	18:33 (2)	08:31	09:13
	22:07	20:57	19:32	18:11	17:41 (3)	15:27 (4)
24	05:12	06:15	07:20	18:33 (2)	08:33	09:13
	22:05	20:54	19:29	18:09	17:40 (3)	15:26 (4)
25	05:14	06:17	07:22	18:34 (2)	08:35	09:14
	22:04	20:51	19:26	18:06	17:39 (3)	15:20 (4)
26	05:16	06:19	07:24	18:34 (2)	08:37	09:14
	22:02	20:49	19:24	18:04	17:38 (3)	15:22 (4)
27	05:17	06:21	07:26	18:35 (2)	08:39	09:14
	22:00	20:46	19:21	18:02	17:37 (3)	15:25 (4)
28	05:19	06:24	07:28	18:36 (2)	08:41	09:14
	21:58	20:43	19:18	18:47 (2)	17:36 (3)	15:53
29	05:21	06:26	07:30	18:39 (2)	08:43	09:14
	21:56	20:41	19:15	18:44 (2)	17:35 (3)	15:55
30	05:23	06:28	07:32	07:38	08:45	09:14
	21:54	20:38	19:13	16:54	17:34 (3)	15:56
31	05:25	06:30		07:40	15:57	09:14
	21:52	20:35		16:52		15:57
Potential sun hours	536	473	385	322	243	209
Total, worst case			285	328	396	
Sun reduction			0.42	0.27	0.15	
Oper. time red.			0.89	0.89	0.89	
Wind dir. red.			0.99	0.89	0.69	
Total reduction			0.35	0.21	0.09	
Total, real			100	68	34	

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

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

Shadow receptor: AA - Shadow Receptor: Atmos
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	08:36 16:58	07:29 18:03	17:20 (4) 20:11	19:14 (3) 21:16	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	19:20 (3) 19:10	07:34 18:16 (4)	17:51 (4) 16:49	07:42 15:56
2	09:14 16:00	08:34 17:00	07:26 18:05	17:17 (4) 20:13	19:13 (3) 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	19:16 (3) 19:07	07:37 18:16 (4)	17:50 (4) 16:47	07:45 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	17:16 (4) 20:15	19:14 (3) 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	19:13 (3) 19:04	07:39 18:16 (4)	17:49 (4) 16:45	07:47 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	17:15 (4) 20:17	19:13 (3) 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	19:11 (3) 19:02	07:41 18:16 (4)	17:49 (4) 16:43	07:49 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	17:14 (4) 20:20	19:13 (3) 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	19:10 (3) 19:31 (3)	07:43 18:59	17:48 (4) 16:40	07:52 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	17:12 (4) 20:22	19:14 (3) 21:27	04:40 22:23	04:44 22:30	05:37 21:38	06:42 20:19	19:09 (3) 19:32 (3)	07:45 18:56	17:49 (4) 16:38	07:54 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	17:12 (4) 20:24	19:14 (3) 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	19:08 (3) 19:32 (3)	07:47 18:53	17:48 (4) 16:36	07:56 15:51
8	09:10 16:08	08:21 17:14	07:10 18:18	17:12 (4) 20:26	19:14 (3) 21:31	04:39 22:25	04:46 22:28	05:42 21:34	06:46 20:14	19:07 (3) 19:32 (3)	07:49 18:51	17:48 (4) 16:34	07:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	17:11 (4) 20:28	19:15 (3) 21:33	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	19:07 (3) 19:32 (3)	07:51 18:48	17:49 (4) 16:32	08:01 15:50
10	09:09 16:12	08:16 17:19	07:05 18:23	17:11 (4) 20:30	19:18 (3) 21:35	04:37 22:27	04:49 22:26	05:46 21:29	06:51 20:08	19:07 (3) 19:31 (3)	07:54 18:45	17:49 (4) 16:30	08:03 15:49
11	09:08 16:14	08:14 17:21	07:02 18:25	17:11 (4) 20:33	19:21 (3) 21:37	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	19:07 (3) 19:30 (3)	07:56 18:43	17:51 (4) 16:28	08:05 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	17:12 (4) 20:35	19:26 (3) 21:39	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:02	19:07 (3) 19:30 (3)	07:58 18:40	17:52 (4) 16:26	08:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	17:12 (4) 20:37	19:26 (3) 21:41	04:36 22:30	04:53 22:22	05:52 21:22	06:57 20:00	19:07 (3) 19:28 (3)	08:00 18:37	17:54 (4) 16:24	08:10 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	17:13 (4) 20:39	19:26 (3) 21:44	04:35 22:31	04:55 22:21	05:54 21:20	06:59 19:57	19:08 (3) 19:26 (3)	08:02 18:35	18:05 (4) 16:22	08:12 15:48
15	09:03 16:21	08:04 17:30	06:51 18:34	17:14 (4) 20:41	19:26 (3) 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	19:09 (3) 19:23 (3)	08:04 18:32	18:04 (4) 16:20	08:14 15:48
16	09:02 16:23	08:02 17:33	06:49 18:36	17:16 (4) 20:43	19:26 (3) 21:48	04:35 22:32	04:58 22:18	05:58 21:15	07:03 19:51	19:10 (3) 19:20 (3)	08:07 18:29	18:07 (4) 16:18	08:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	17:20 (4) 20:46	19:26 (3) 21:50	04:34 22:33	05:00 22:17	06:00 21:12	07:05 19:49	19:15 (3) 19:17 (3)	08:09 18:27	18:09 (4) 16:16	08:09 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	17:26 (4) 20:48	19:26 (3) 21:52	04:34 22:33	05:01 22:15	06:03 21:10	07:07 19:46	19:17 (3) 19:16	18:27 18:24	18:11 (4) 16:14	08:11 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	17:26 (4) 20:50	19:26 (3) 21:53	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	19:16 (3) 19:15	18:13 18:21	18:13 (4) 16:13	08:13 15:48
20	08:57 16:31	07:52 17:42	06:37 18:45	17:26 (4) 20:52	19:26 (3) 21:55	04:34 22:34	05:05 22:12	06:07 21:04	07:11 19:40	19:15 (3) 19:14	18:15 18:19	18:15 (4) 16:11	08:15 15:49
21	08:55 16:33	07:50 17:44	06:35 18:47	17:26 (4) 20:54	19:26 (3) 21:57	04:34 22:34	05:06 22:11	06:09 21:02	07:13 19:37	19:14 (3) 19:13	18:18 18:16	18:18 (4) 16:09	08:18 15:49
22	08:54 16:35	07:47 17:47	06:32 18:49	17:26 (4) 20:56	19:26 (3) 21:59	04:34 22:35	05:08 22:09	06:11 20:59	07:16 19:35	19:13 (3) 18:14	18:19 18:14	18:19 (4) 16:08	08:20 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	17:26 (4) 20:59	19:26 (3) 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	19:12 (3) 18:11	18:22 18:11	18:22 (4) 16:06	08:22 15:50
24	08:50 16:40	07:42 17:51	06:26 18:54	17:26 (4) 21:01	19:26 (3) 22:03	04:35 22:35	05:12 22:05	06:15 20:54	07:20 19:29	19:11 (3) 18:09	18:24 18:09	18:24 (4) 16:05	08:24 15:50
25	08:49 16:42	07:39 17:54	06:24 18:56	17:26 (4) 21:03	19:26 (3) 22:05	04:35 22:35	05:14 22:03	06:17 20:51	07:22 19:26	19:10 (3) 19:26	18:29 17:06	18:29 (4) 16:03	08:25 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	17:26 (4) 21:05	19:26 (3) 22:06	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	19:09 (3) 19:24	18:29 17:04	18:29 (4) 16:02	08:27 15:52
27	08:45 16:46	07:34 17:58	06:18 19:00	17:26 (4) 21:07	19:26 (3) 22:08	04:36 22:35	05:17 22:00	06:21 20:46	07:26 19:21	19:07 (3) 18:11 (4)	18:31 17:01	18:31 (4) 16:01	08:30 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	17:26 (4) 21:09	19:26 (3) 22:10	04:37 22:34	05:19 21:58	06:24 20:43	07:28 19:18	19:06 (3) 18:13 (4)	07:33 16:59	18:33 (4) 16:59	08:31 15:54
29	08:41 16:51	07:30 18:08	06:13 19:04	17:26 (4) 21:11	19:26 (3) 22:11	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	19:05 (3) 18:14 (4)	07:36 16:57	18:34 (4) 16:57	08:33 15:55
30	08:39 16:53	07:28 18:15	06:11 19:06	17:26 (4) 21:13	19:26 (3) 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:13	19:04 (3) 18:15 (4)	07:38 16:54	18:35 (4) 16:54	08:35 15:56
31	08:38 16:56	07:27 18:22	06:10 19:07	17:26 (4) 21:15	19:26 (3) 22:15	04:47 22:35	05:25 21:52	06:30 20:35	07:40 19:13	19:03 (3) 18:16 (4)	07:40 16:52	18:36 (4) 16:52	08:36 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210	
Total, worst case			449	220				378	304				
Sun reduction		0.23	0.38	0.44				0.42	0.27				
Oper. time red.		0.89	0.89	0.89				0.89	0.89				
Wind dir. red.		0.94	0.95	1.00				0.99	0.94				
Total reduction		0.19	0.32	0.39				0.37	0.23				
Total, real		1	143	85				139	69				

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: AB - Shadow Receptor: Dziri
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December			
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	19:00 (4) 19:28 (4)	05:45 21:16	22 20:21 (3)	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	14 19:17 (4)	07:34 19:10	07:42 16:49	08:47 15:56
2	09:14 16:00	08:34 17:00	07:26 18:05	07:02 20:13	18:59 (4) 19:28 (4)	05:43 21:18	20 20:20 (3)	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	19 19:19 (4)	07:37 19:07	07:45 16:47	08:49 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	06:59 20:15	18:59 (4) 19:28 (4)	05:41 21:20	18 20:19 (3)	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	22 19:20 (4)	07:39 19:04	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	18:59 (4) 19:28 (4)	05:38 21:22	15 20:17 (3)	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	24 19:21 (4)	07:41 19:02	07:49 16:43	08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:19	18:58 (4) 19:27 (4)	05:36 21:25	13 20:16 (3)	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	25 19:21 (4)	07:43 18:59	07:52 16:40	08:54 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	18:59 (4) 19:27 (4)	05:34 21:27	7 20:13 (3)	04:40 22:23	04:44 22:30	05:38 21:38	06:42 20:19	28 19:22 (4)	07:45 18:56	07:54 16:38	08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	18:59 (4) 19:25 (4)	05:31 21:29	26 20:24 (3)	04:39 22:24	04:45 22:29	05:40 21:36	9 20:12 (3)	28 19:22 (4)	06:44 18:53	07:47 16:36	08:57 15:51
8	09:10 16:08	08:21 17:14	07:10 18:18	06:45 20:26	19:00 (4) 19:24 (4)	05:29 21:31	24 20:26 (3)	04:39 22:25	04:46 22:28	05:42 21:34	14 20:12 (3)	29 19:22 (4)	06:47 18:51	07:49 16:34	08:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	06:42 20:28	19:00 (4) 19:22 (4)	05:27 21:33	22 20:28 (3)	04:38 22:26	04:48 22:27	05:44 21:32	17 20:10 (3)	30 19:22 (4)	06:49 18:52	08:01 16:32	09:00 15:50
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	19:02 (4) 19:21 (4)	05:25 21:35	19 20:30 (3)	04:37 22:27	04:49 22:26	05:46 21:29	19 20:09 (3)	29 19:21 (4)	06:51 18:54	08:03 16:30	09:01 15:49
11	09:08 16:14	08:14 17:21	07:02 18:25	06:37 20:33	19:04 (4) 19:18 (4)	05:22 21:37	14 20:36 (3)	04:37 22:28	04:50 22:25	05:48 21:27	21 20:29 (3)	29 19:21 (4)	06:53 18:52	08:05 16:28	09:02 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	06:34 20:35	19:08 (4) 19:15 (4)	05:20 21:39	7 20:43 (3)	04:36 22:29	04:52 22:24	05:50 21:24	23 20:30 (3)	28 19:20 (4)	06:55 18:40	08:07 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	06:32 20:37	19:15 (4) 21:41	05:18 21:41	22 20:46 (3)	04:36 22:30	04:53 22:22	05:52 21:22	23 20:30 (3)	27 19:19 (4)	06:57 18:52	08:10 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	19:15 (4) 21:43	05:16 21:43	23 20:49 (3)	04:35 22:31	04:55 22:21	05:54 21:20	24 20:30 (3)	26 19:18 (4)	06:59 18:53	08:12 16:22	09:06 15:48
15	09:03 16:21	08:04 17:30	06:51 18:34	06:26 20:41	19:15 (4) 21:46	05:14 21:46	24 20:52 (3)	04:35 22:32	04:56 22:20	05:56 21:17	24 20:30 (3)	24 19:17 (4)	07:01 18:54	08:14 16:20	09:07 15:48
16	09:02 16:23	08:02 17:33	06:49 18:36	06:24 20:43	19:15 (4) 21:48	05:12 21:48	24 20:55 (3)	04:35 22:32	04:58 22:18	05:58 21:15	24 20:30 (3)	21 19:15 (4)	07:03 18:55	08:16 16:18	09:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	06:21 20:46	19:15 (4) 21:50	05:10 21:50	24 20:58 (3)	04:34 22:33	05:00 22:17	06:00 21:12	24 20:30 (3)	18 19:13 (4)	07:05 18:57	08:18 16:16	09:09 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	06:18 20:48	20:08 (3) 20:16 (3)	05:08 21:51	23 20:59 (3)	04:34 22:33	05:01 22:15	06:03 21:10	24 20:30 (3)	13 19:10 (4)	07:07 18:24	08:21 16:14	09:10 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	06:16 20:50	20:06 (3) 20:19 (3)	05:06 21:53	13 20:50 (3)	04:34 22:34	05:03 22:14	06:05 21:07	23 20:29 (3)	23 19:43	07:09 18:21	08:23 16:13	09:11 15:48
20	08:57 16:31	07:52 17:42	06:37 18:45	06:13 20:52	20:03 (3) 20:20 (3)	05:04 21:55	23 20:53 (3)	04:34 22:34	05:05 22:12	06:07 21:04	23 20:29 (3)	23 19:40	07:11 18:19	08:25 16:11	09:11 15:49
21	08:55 16:33	07:50 17:44	06:35 18:47	06:11 20:54	20:02 (3) 20:22 (3)	05:03 21:57	21 20:56 (3)	04:34 22:34	05:06 22:11	06:09 21:02	21 20:28 (3)	21 19:37	07:13 18:16	08:27 16:09	09:12 15:49
22	08:54 16:35	07:47 17:47	06:32 18:49	06:08 20:56	20:01 (3) 20:22 (3)	05:01 21:59	20 20:59 (3)	04:34 22:35	05:08 22:09	06:11 20:59	20 20:27 (3)	20 19:35	07:16 18:14	08:29 16:08	09:12 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	20:00 (3) 20:23 (3)	04:59 22:01	17 20:57 (3)	04:35 22:35	05:10 22:07	06:13 20:57	17 20:25 (3)	17 19:32	07:18 18:11	08:31 16:06	09:13 15:50
24	08:50 16:40	07:42 17:51	06:26 18:54	06:03 21:01	19:59 (3) 20:23 (3)	04:57 22:03	13 20:54 (3)	04:35 22:35	05:12 22:05	06:15 20:54	13 20:23 (3)	13 19:29	07:20 18:24	08:33 16:05	09:13 15:51
25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	18:10 (4) 18:21 (4)	06:00 21:03	24 20:23 (3)	04:35 22:35	05:14 22:03	06:17 20:51	7 20:12 (3)	7 19:26	07:22 17:06	08:35 16:03	09:14 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	05:58 21:05	18:08 (4) 18:25 (4)	05:58 22:06	25 20:24 (3)	04:36 22:35	05:16 22:02	06:19 20:49	7 20:12 (3)	7 19:24	07:24 17:04	08:37 16:02	09:14 15:52
27	08:45 16:46	07:34 17:58	06:18 19:00	05:55 21:07	18:05 (4) 18:26 (4)	05:55 22:08	25 20:23 (3)	04:36 22:35	05:18 22:00	06:21 20:46	6 20:11 (3)	6 19:21	07:26 17:01	08:39 16:01	09:14 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	05:53 21:09	18:04 (4) 18:27 (4)	05:53 22:10	25 20:23 (3)	04:37 22:34	05:19 21:58	06:24 20:43	5 20:10 (3)	5 19:18	07:28 17:36	08:41 15:59	09:14 15:54
29	08:41 16:51	07:13 20:04	05:50 19:27	05:50 21:12	19:02 (4) 19:27 (4)	05:50 22:11	24 20:23 (3)	04:38 22:34	05:21 21:56	06:26 20:41	4 20:09 (3)	4 19:15	07:30 16:57	08:43 15:58	09:14 15:55
30	08:39 16:53	07:10 20:06	05:48 19:29	05:48 21:14	19:02 (4) 19:29 (4)	05:48 22:13	23 20:21 (3)	04:38 22:34	05:23 21:54	06:28 20:38	3 20:08 (3)	3 19:13	07:32 16:54	08:45 15:57	09:14 15:56
31	08:38 16:56	07:07 20:09	05:47 19:29	05:47 21:15	19:00 (4) 19:29 (4)	05:47 22:15	22 20:21 (3)	04:47 22:35	05:25 21:52	06:30 20:35	2 20:07 (3)	2 19:14 (4)	07:40 16:52	08:46 15:57	09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210			
Total, worst case			153	556	95			377	434						
Sun reduction			0.38	0.44	0.55			0.55	0.42						
Oper. time red.			0.89	0.89	0.89			0.89	0.89						
Wind dir. red.			1.00	0.98	0.96			0.97	1.00						
Total reduction			0.34	0.38	0.47			0.48	0.37						
Total, real			51	213	45			179	163						

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: AC - Shadow Receptor: Ciekurini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	19:21 (4) 07:34	07:42 16:49	08:47 15:56
2	09:14 16:00	08:33 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	19:21 (4) 07:37	07:45 16:47	08:49 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	19:22 (4) 07:39	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	19:34 (4) 05:38	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	19:22 (4) 07:41	07:49 16:43	08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:19	19:30 (4) 05:36	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	19:23 (4) 07:43	07:52 16:40	08:54 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	19:29 (4) 05:34	04:40 22:23	04:44 22:30	05:38 21:38	06:42 20:19	19:24 (4) 07:45	07:54 16:38	08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	19:27 (4) 05:31	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	19:25 (4) 07:47	07:56 16:34	08:57 15:51
8	09:10 16:08	08:21 17:14	07:10 18:18	06:45 20:26	19:25 (4) 05:29	04:39 22:25	04:46 22:28	05:42 21:34	06:47 20:14	19:28 (4) 07:49	07:58 16:34	08:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	06:42 20:28	19:24 (4) 05:27	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	07:51 18:48	08:01 16:32	09:00 15:50
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	19:24 (4) 05:25	04:37 22:27	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49
11	09:08 16:14	08:14 17:21	07:02 18:25	06:37 20:33	19:22 (4) 05:22	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:02 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	06:34 20:35	19:23 (4) 05:20	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:02	07:58 18:50	08:07 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	06:32 20:37	19:22 (4) 05:18	04:36 22:30	04:53 22:22	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	19:21 (4) 05:16	04:35 22:31	04:55 22:21	05:54 21:19	06:59 19:57	08:02 18:35	08:12 16:22	09:06 15:48
15	09:03 16:21	08:04 17:30	06:51 18:34	06:26 20:41	19:22 (4) 05:14	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	08:04 18:32	08:14 16:20	09:07 15:48
16	09:02 16:23	08:02 17:33	06:49 18:36	06:24 20:43	19:22 (4) 05:12	04:35 22:32	04:58 22:18	05:58 21:15	07:03 19:51	08:07 18:29	08:16 16:18	09:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	06:21 20:46	19:22 (4) 05:10	04:34 22:33	05:00 22:17	06:00 21:12	07:05 19:49	08:09 18:27	08:18 16:16	09:09 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	06:18 20:48	19:22 (4) 05:08	04:34 22:34	05:01 22:15	06:03 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	06:16 20:50	19:24 (4) 05:06	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	08:13 18:21	08:23 16:13	09:11 15:48
20	08:57 16:31	07:52 17:42	06:37 18:45	06:13 20:52	19:24 (4) 05:04	04:34 22:34	05:05 22:12	06:07 21:04	19:37 (4) 19:40	07:11 19:33 (4)	08:15 16:11	09:11 15:49
21	08:55 16:33	07:50 17:44	06:35 18:47	06:11 20:54	19:26 (4) 05:03	04:34 22:34	05:06 22:11	06:09 21:02	19:33 (4) 19:37	07:13 19:46 (4)	08:18 16:09	09:12 15:49
22	08:54 16:35	07:47 17:47	06:32 18:49	06:08 20:56	19:28 (4) 05:01	04:34 22:35	05:08 22:09	06:11 20:59	19:31 (4) 19:48 (4)	07:16 19:35	08:20 16:08	09:12 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	19:29 (4) 19:49 (4)	07:18 19:32	08:22 18:11	09:13 16:06
24	08:50 16:40	07:42 17:51	06:26 18:54	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:05	06:15 20:54	19:27 (4) 19:50 (4)	07:20 19:29	08:24 18:09	09:13 16:05
25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:03	06:17 20:51	19:25 (4) 19:50 (4)	07:22 19:26	08:25 17:06	09:14 16:03
26	08:47 16:44	07:37 17:56	06:21 18:58	05:58 21:05	04:54 22:06	04:36 22:35	05:16 22:02	06:19 20:49	19:24 (4) 19:50 (4)	07:24 19:24	08:27 17:04	09:14 16:02
27	08:45 16:46	07:34 17:58	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:34	05:18 22:00	06:21 20:46	19:23 (4) 19:51 (4)	07:26 19:21	08:31 17:01	09:14 16:01
28	08:43 16:49	07:32 18:00	06:15 19:02	05:53 21:09	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:43	19:23 (4) 19:51 (4)	07:28 19:18	08:41 16:59	09:14 15:59
29	08:41 16:51	07:13 20:04	05:50 21:12	05:50 21:12	04:50 22:11	04:38 22:34	05:21 21:56	06:26 20:41	19:22 (4) 19:51 (4)	07:30 19:15	08:43 16:57	09:14 15:58
30	08:39 16:53	07:10 20:06	05:48 21:14	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	19:22 (4) 19:50 (4)	07:32 19:13	08:45 16:54	09:14 15:56
31	08:38 16:56	07:07 20:09	05:53 21:14	05:53 21:14	04:47 22:15	04:37 22:34	05:25 21:52	06:30 20:35	19:22 (4) 19:50 (4)	07:40 16:52	08:45 16:52	09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case				434				270	175			
Sun reduction				0.44				0.55	0.42			
Oper. time red.				0.89				0.89	0.89			
Wind dir. red.				1.00				1.00	1.00			
Total reduction				0.39				0.49	0.37			
Total, real				168				132	65			

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: AD - Shadow Receptor: Kraci
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	19:25 (4) 07:34	07:42 16:49	08:47 15:56
2	09:13 16:00	08:33 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	19:25 (4) 07:37	07:45 16:47	08:49 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	19:26 (4) 07:39	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	05:38 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	19:26 (4) 07:41	07:49 16:43	08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:19	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	19:27 (4) 07:43	07:52 16:40	08:54 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:38 21:38	06:42 20:19	19:29 (4) 07:45	07:54 16:38	08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	19:32 (4) 07:47	07:56 16:36	08:57 15:51
8	09:10 16:08	08:21 17:14	07:10 18:18	06:45 20:26	05:29 21:31	04:39 22:25	04:46 22:28	05:42 21:34	06:47 20:14	07:49 18:51	07:58 16:34	08:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	06:42 20:28	05:27 21:33	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	07:51 18:48	08:01 16:32	09:00 15:50
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	05:25 21:35	04:37 22:27	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49
11	09:08 16:14	08:14 17:21	07:02 18:25	06:37 20:33	05:22 21:37	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:02 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	06:34 20:35	05:20 21:39	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:02	07:58 18:50	08:07 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	06:32 20:37	05:18 21:41	04:36 22:30	04:53 22:22	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	05:16 21:43	04:35 22:31	04:55 22:21	05:54 21:19	06:59 19:57	08:02 18:35	08:12 16:22	09:06 15:48
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18	09:00 16:27	07:57 17:37	06:43 18:40	06:18 20:48	05:08 21:51	04:34 22:34	05:01 22:15	06:03 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48
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Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case				434				297	143			
Sun reduction				0.44				0.55	0.42			
Oper. time red.				0.89				0.89	0.89			
Wind dir. red.				1.00				1.00	1.00			
Total reduction				0.39				0.49	0.37			
Total, real				168				145	53			

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

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

SHADOW - Calendar

Shadow receptor: AE - Shadow Receptor: Cerini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	19:34 (4) 19:10	07:42 16:49	08:47 15:56
2	09:14 16:00	08:33 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	19:35 (4) 19:07	07:45 16:47	08:49 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	19:36 (4) 19:04	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	05:38 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	19:38 (4) 19:02	07:41 16:43	08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:19	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	19:43 (4) 19:45 (4)	07:43 18:59	08:54 16:40
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20	08:57 16:31	07:52 17:42	06:37 18:45	06:13 20:52	05:04 21:55	04:34 22:34	05:05 22:12	06:07 21:04	07:11 20:00 (4)	08:15 18:19	08:25 16:11	09:11 15:49
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23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	04:59 21:54 (4)	04:35 22:35	05:10 22:07	06:13 20:57	07:18 20:02 (4)	08:22 18:11	08:31 16:06	09:13 15:50
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25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	04:56 21:50 (4)	04:35 22:35	05:14 22:03	06:17 20:51	07:22 20:01 (4)	08:27 17:06	08:35 16:03	09:14 15:51
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Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case				400				334				
Sun reduction				0.44				0.55		0.42		
Oper. time red.				0.89				0.89		0.89		
Wind dir. red.				0.99				0.99		0.99		
Total reduction				0.39				0.49		0.37		
Total, real				154				163		28		

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: AF - Shadow Receptor: Niedragi
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14 15:58	08:35 16:58	07:29 18:03	07:04 20:11	05:45 21:16	20:07 (4) 04:46	04:39 22:33	05:27 21:49	20:26 (4) 06:32	07:34 19:10	07:42 16:49	08:47 15:56
2	09:14 16:00	08:33 17:00	07:26 18:05	07:02 20:13	05:43 21:18	20:08 (4) 04:45	04:40 22:33	05:29 21:47	20:23 (4) 06:34	07:37 19:07	07:45 16:47	08:48 15:55
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27	08:45 16:46	07:34 17:58	06:18 19:00	05:55 21:07	05:00 22:08	04:36 22:34	05:18 22:00	06:21 20:46	07:26 19:21	08:31 17:01	08:39 16:01	09:14 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	05:53 21:09	05:00 22:10	04:37 22:34	05:19 21:58	06:24 20:43	07:28 19:18	08:33 16:59	08:41 15:59	09:14 15:54
29	08:41 16:51	07:30 18:04	06:13 19:04	05:50 21:12	05:00 22:14	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	08:36 16:57	08:43 15:58	09:14 15:55
30	08:39 16:53	07:28 18:06	06:10 19:06	05:48 21:14	05:00 22:18	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:12	08:38 16:54	08:45 15:57	09:14 15:56
31	08:37 16:56	07:27 18:09	06:07 19:09	05:47 21:14	05:00 22:24	04:47 22:14	05:25 21:52	06:30 20:35	07:40 16:52	08:47 16:09	09:14 15:57	09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case				163	228			398				
Sun reduction				0.44	0.55			0.55				
Oper. time red.				0.89	0.89			0.89				
Wind dir. red.				0.95	0.95			0.95				
Total reduction				0.37	0.46			0.47				
Total, real				60	105			186				

Table 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: AG - Shadow Receptor: Uplejas
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:35	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:42	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:49	20:33	19:10	16:49	15:56
2	09:14	08:33	07:26	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:48
	16:00	17:00	18:05	20:13	21:18	22:17	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:31	07:24	06:59	05:41	04:44	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:03	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:22	22:20	22:31	21:43	20:24	19:02	16:43	15:53
5	09:12	08:27	07:18	06:53	05:36	04:41	04:43	05:36	06:40	07:43	07:51	08:54
	16:04	17:07	18:12	20:19	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:55
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:38	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:10	08:21	07:10	06:45	05:29	04:39	04:47	05:42	06:47	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:09	08:18	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:51	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:26	22:27	21:31	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:27	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:51	05:48	06:53	07:56	08:05	09:02
	16:14	17:21	18:25	20:32	21:37	22:28	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:11	06:59	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:24	18:27	20:35	21:39	22:29	22:24	21:24	20:02	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:29	20:37	21:41	22:30	22:22	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:43	22:31	22:21	21:19	19:57	18:35	16:22	15:48
15	09:03	08:04	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:04	08:14	09:07
	16:21	17:31	18:34	20:41	21:45	22:31	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:35	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:47	22:32	22:18	21:14	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:00	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:46	21:49	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	08:59	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:40	20:48	21:51	22:33	22:15	21:09	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:10
	16:29	17:40	18:43	20:50	21:53	22:34	22:14	21:07	19:43	18:22	16:13	15:48
20	08:57	07:52	06:37	06:13	05:04	04:34	05:05	06:07	07:11	08:15	08:25	09:11
	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:34	22:10	21:02	19:37	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:12
	16:35	17:47	18:49	20:56	21:59	22:34	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:13
	16:40	17:51	18:53	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:51
25	08:49	07:39	06:24	06:00	04:56	04:36	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:03	20:51	19:26	17:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	07:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:35	22:01	20:49	19:24	17:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:37	05:18	06:21	07:26	07:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:34	22:00	20:46	19:21	17:01	16:01	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:20	06:24	07:28	07:33	08:41	09:14
	16:49	18:00	19:02	21:09	22:10	22:34	21:58	20:43	19:18	16:59	15:59	15:54
29	08:41		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	16:57	15:58	15:55
30	08:39		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:14
	16:53		20:06	21:14	22:13	22:33	21:54	20:38	19:13	16:54	15:57	15:56
31	08:37		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:14		21:51	20:35		16:52		15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AH - Shadow Receptor: Lielsili
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:46	04:46	04:39	05:28	06:32	07:35	07:43	08:47
	15:59	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:26	07:02	05:43	04:45	04:40	05:30	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:32	07:24	06:59	05:41	04:44	04:41	05:32	06:36	07:39	07:47	08:50
	16:01	17:03	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:43	04:42	05:34	06:38	07:41	07:49	08:52
	16:03	17:05	18:10	20:17	21:23	22:20	22:31	21:43	20:25	19:02	16:43	15:53
5	09:12	08:27	07:19	06:54	05:36	04:42	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:41	15:52
6	09:12	08:25	07:16	06:51	05:34	04:41	04:44	05:38	06:43	07:45	07:54	08:55
	16:06	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:52
7	09:11	08:23	07:13	06:48	05:32	04:40	04:46	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:54	16:36	15:51
8	09:10	08:21	07:10	06:45	05:29	04:39	04:47	05:42	06:47	07:49	07:58	08:58
	16:09	17:14	18:19	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:26	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:27	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:02
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12	09:07	08:12	07:00	06:35	05:21	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:16	17:24	18:27	20:35	21:39	22:29	22:24	21:24	20:03	18:40	16:26	15:49
13	09:06	08:09	06:57	06:32	05:18	04:36	04:54	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:22	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:03	08:05	06:51	06:26	05:14	04:35	04:57	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:35	04:58	05:59	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:18	21:15	19:52	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:35	05:00	06:01	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:19	05:08	04:35	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:33	22:15	21:10	19:46	18:24	16:15	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:53	22:34	22:14	21:07	19:43	18:22	16:13	15:49
20	08:57	07:52	06:38	06:13	05:05	04:34	05:05	06:07	07:12	08:16	08:25	09:11
	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:11	05:03	04:35	05:07	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:54	21:57	22:34	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:50
23	08:52	07:45	06:29	06:06	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:27	06:03	04:58	04:35	05:12	06:15	07:20	08:25	08:33	09:13
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:36	05:14	06:17	07:22	08:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:03	20:51	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:20	07:24	08:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:37	05:18	06:22	07:26	08:31	08:39	09:14
	16:47	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	18:02	16:01	15:53
28	08:43	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	08:33	08:41	09:14
	16:49	18:01	19:02	21:10	22:10	22:34	21:58	20:44	19:18	18:00	16:00	15:54
29	08:41		07:13	05:50	04:50	04:38	05:22	06:26	07:30	08:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	18:00	16:00	15:55
30	08:40		07:10	05:48	04:49	04:39	05:24	06:28	07:32	08:38	08:45	09:14
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:00	15:56
31	08:38		07:07		04:47		05:26	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AI - Shadow Receptor: Ozolini
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:46	04:46	04:39	05:28	06:32	07:35	07:43	08:47
	15:59	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:26	07:02	05:43	04:45	04:40	05:30	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:32	07:24	06:59	05:41	04:44	04:41	05:32	06:36	07:39	07:47	08:50
	16:01	17:03	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:43	04:42	05:34	06:38	07:41	07:49	08:52
	16:03	17:05	18:10	20:17	21:23	22:20	22:31	21:43	20:25	19:02	16:43	15:53
5	09:12	08:27	07:19	06:54	05:36	04:42	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:41	15:52
6	09:12	08:25	07:16	06:51	05:34	04:41	04:44	05:38	06:43	07:45	07:54	08:55
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:52
7	09:11	08:23	07:13	06:48	05:32	04:40	04:46	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:54	16:36	15:51
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	16:10	17:17	18:21	20:28	21:33	22:26	22:27	21:32	20:11	18:48	16:32	15:50
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	16:12	17:19	18:23	20:30	21:35	22:27	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:02
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13	09:06	08:09	06:57	06:32	05:18	04:36	04:54	05:52	06:57	08:00	08:10	09:05
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	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:49	06:24	05:12	04:35	04:58	05:59	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:18	21:15	19:52	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:35	05:00	06:01	07:05	08:09	08:18	09:09
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18	09:00	07:57	06:43	06:19	05:08	04:35	05:01	06:03	07:07	08:11	08:21	09:10
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20	08:57	07:52	06:38	06:13	05:05	04:34	05:05	06:07	07:12	08:16	08:25	09:11
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21	08:55	07:50	06:35	06:11	05:03	04:35	05:07	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:54	21:57	22:34	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:50
23	08:52	07:45	06:29	06:06	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:27	06:03	04:58	04:35	05:12	06:15	07:20	08:25	08:33	09:13
	16:40	17:51	18:54	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:36	05:14	06:17	07:22	08:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:03	20:51	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:20	07:24	08:29	08:37	09:14
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27	08:45	07:34	06:18	05:55	04:53	04:37	05:18	06:22	07:26	08:31	08:39	09:14
	16:47	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	18:02	16:01	15:53
28	08:43	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	08:34	08:41	09:14
	16:49	18:01	19:02	21:10	22:10	22:34	21:58	20:44	19:18	18:00	16:00	15:54
29	08:41		07:13	05:50	04:50	04:38	05:22	06:26	07:30	08:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	18:00	16:00	15:55
30	08:40		07:10	05:48	04:49	04:39	05:24	06:28	07:32	08:38	08:45	09:14
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:00	15:56
31	08:38		07:07		04:47		05:26	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AJ - Shadow Receptor: Alkš nu Birzes
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:30	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:19	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:44	04:41	05:32	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:46	20:28	19:05	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:34	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:28	07:19	06:54	05:36	04:41	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:41	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:43	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:52
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:25	22:29	21:37	20:17	18:54	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:47	05:42	06:47	07:50	07:59	08:59
	16:09	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:30	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:06	18:43	16:28	15:49
12	09:07	08:12	07:00	06:35	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:28	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:10	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:31	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
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15	09:04	08:05	06:52	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:42	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:03	08:02	06:49	06:24	05:12	04:35	04:58	05:59	07:03	08:07	08:17	09:08
	16:23	17:33	18:36	20:44	21:48	22:33	22:19	21:15	19:52	18:30	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
	16:25	17:35	18:39	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:19	05:08	04:34	05:01	06:03	07:08	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:59	07:55	06:41	06:16	05:06	04:34	05:03	06:05	07:10	08:14	08:23	09:11
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20	08:57	07:52	06:38	06:13	05:05	04:34	05:05	06:07	07:12	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:35	22:13	21:05	19:41	18:19	16:11	15:49
21	08:56	07:50	06:35	06:11	05:03	04:34	05:07	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	22:00	22:35	22:09	21:00	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:06	04:59	04:35	05:10	06:13	07:18	08:22	08:32	09:13
	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:58	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:52	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:36	05:14	06:17	07:22	07:27	08:36	09:14
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26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:20	07:24	07:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	17:04	16:02	15:52
27	08:45	07:35	06:18	05:55	04:53	04:36	05:18	06:22	07:26	07:31	08:40	09:15
	16:47	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	17:02	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	07:34	08:42	09:15
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29	08:42		07:13	05:50	04:50	04:38	05:22	06:26	07:31	07:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:16	16:57	15:58	15:55
30	08:40		07:10	05:48	04:48	04:38	05:24	06:28	07:33	07:38	08:45	09:15
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	16:54	15:57	15:56
31	08:38		07:07		04:47		05:25	06:30		07:41		09:15
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AK - Shadow Receptor: Berznieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:19	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:44	04:41	05:32	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:46	20:28	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:34	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:28	07:19	06:54	05:36	04:41	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:41	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:43	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:52
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:25	22:29	21:37	20:17	18:54	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:47	05:42	06:47	07:50	07:59	08:59
	16:09	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:30	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:06	18:43	16:28	15:49
12	09:07	08:12	07:00	06:35	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:28	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:10	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:31	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:32	22:22	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:52	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:42	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:03	08:02	06:49	06:24	05:12	04:35	04:58	05:59	07:03	08:07	08:17	09:08
	16:23	17:33	18:36	20:44	21:48	22:33	22:19	21:15	19:52	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
	16:25	17:35	18:39	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:19	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:59	07:55	06:41	06:16	05:06	04:34	05:03	06:05	07:10	08:14	08:23	09:11
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	16:31	17:42	18:45	20:52	21:56	22:35	22:13	21:05	19:41	18:19	16:11	15:49
21	08:56	07:50	06:35	06:11	05:03	04:34	05:07	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	22:00	22:35	22:09	21:00	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:06	04:59	04:35	05:10	06:13	07:18	08:22	08:32	09:13
	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
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	16:47	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	18:02	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	08:34	08:42	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:00	15:54
29	08:42		07:13	05:50	04:50	04:38	05:22	06:26	07:30	08:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:16	18:00	16:00	15:55
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31	08:38		07:07		04:47		05:25	06:30		07:41		09:15
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AL - Shadow Receptor: Licnieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:30	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:44	04:41	05:32	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:28	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:34	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:28	07:19	06:54	05:36	04:41	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:41	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:43	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:52
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:25	22:29	21:37	20:17	18:54	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:47	05:42	06:47	07:50	07:59	08:59
	16:09	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
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	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:30	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:06	18:43	16:28	15:49
12	09:07	08:12	07:00	06:35	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
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13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
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14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
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15	09:04	08:05	06:52	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
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17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
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18	09:00	07:57	06:43	06:19	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:59	07:55	06:41	06:16	05:06	04:34	05:03	06:05	07:10	08:14	08:23	09:11
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20	08:57	07:52	06:38	06:13	05:05	04:34	05:05	06:07	07:12	08:16	08:25	09:12
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	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	22:00	22:35	22:09	21:00	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:06	04:59	04:35	05:10	06:13	07:18	08:22	08:32	09:13
	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:58	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:52	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:36	05:14	06:17	07:22	08:27	08:36	09:14
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26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:20	07:24	08:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:35	06:18	05:55	04:53	04:36	05:18	06:22	07:26	08:31	08:40	09:15
	16:47	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	18:02	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	08:34	08:42	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:59	15:54
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	16:51	18:05	19:05	21:12	22:12	22:34	21:56	20:41	19:16	18:00	16:57	15:55
30	08:40	07:30	06:11	05:48	04:48	04:38	05:24	06:28	07:33	08:38	08:45	09:15
	16:53	18:07	19:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:54	15:56
31	08:38	07:29	06:09	05:47	04:47	04:38	05:25	06:30	07:35	08:41	08:48	09:15
	16:56	18:11	19:11	21:16	22:15	22:35	21:52	20:36	19:10	18:00	16:52	15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AM - Shadow Receptor: Oltrauti
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:27	06:32	07:35	07:43	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:34	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:30	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:44	04:41	05:32	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:28	19:04	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:42	04:42	05:34	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:28	07:19	06:54	05:36	04:41	04:43	05:36	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:41	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:43	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:52
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:25	22:29	21:37	20:17	18:54	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:47	05:42	06:47	07:50	07:59	08:59
	16:09	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:30	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:03
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12	09:07	08:12	07:00	06:35	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:15	17:24	18:28	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:31	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:32	22:22	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:52	06:26	05:14	04:35	04:56	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:42	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:03	08:02	06:49	06:24	05:12	04:35	04:58	05:59	07:03	08:07	08:17	09:08
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17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:01	07:05	08:09	08:19	09:09
	16:25	17:35	18:39	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:19	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:14	15:48
19	08:59	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:10	08:14	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:22	16:13	15:48
20	08:57	07:52	06:38	06:13	05:05	04:34	05:05	06:07	07:12	08:16	08:25	09:12
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21	08:56	07:50	06:35	06:11	05:03	04:34	05:07	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	22:00	22:35	22:09	21:00	19:35	18:14	16:08	15:49
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	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:51	07:42	06:27	06:03	04:58	04:35	05:12	06:15	07:20	08:25	08:34	09:14
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	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:59	15:54
29	08:42	07:31	06:13	05:50	04:50	04:38	05:22	06:26	07:30	08:36	08:43	09:15
	16:51	18:05	19:05	21:12	22:12	22:34	21:56	20:41	19:16	18:00	16:57	15:55
30	08:40	07:30	06:11	05:48	04:48	04:38	05:24	06:28	07:33	08:38	08:45	09:15
	16:53	18:07	19:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:54	15:56
31	08:38	07:29	06:09	05:47	04:47	04:38	05:25	06:30	07:35	08:41	08:48	09:15
	16:56	18:11	19:11	21:16	22:15	22:35	21:52	20:36	19:11	18:00	16:52	15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AN - Shadow Receptor: Purvliudumi
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:05	05:46	04:46	04:39	05:28	06:32	07:35	07:43	08:47
	15:59	16:58	18:03	20:11	21:16	22:16	22:33	21:50	20:33	19:10	16:50	15:56
2	09:14	08:34	07:27	07:02	05:43	04:45	04:40	05:30	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:48	20:30	19:07	16:47	15:55
3	09:14	08:32	07:24	06:59	05:41	04:44	04:41	05:32	06:36	07:39	07:47	08:51
	16:01	17:03	18:07	20:15	21:21	22:19	22:32	21:45	20:28	19:05	16:45	15:54
4	09:13	08:30	07:21	06:56	05:38	04:43	04:42	05:34	06:38	07:41	07:50	08:52
	16:02	17:05	18:10	20:18	21:23	22:21	22:32	21:43	20:25	19:02	16:43	15:53
5	09:13	08:28	07:19	06:54	05:36	04:42	04:43	05:36	06:41	07:43	07:52	08:54
	16:04	17:07	18:12	20:20	21:25	22:22	22:31	21:41	20:22	18:59	16:41	15:52
6	09:12	08:25	07:16	06:51	05:34	04:41	04:44	05:38	06:43	07:45	07:54	08:56
	16:05	17:10	18:14	20:22	21:27	22:23	22:30	21:39	20:19	18:56	16:38	15:52
7	09:11	08:23	07:13	06:48	05:32	04:40	04:45	05:40	06:45	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:17	18:54	16:36	15:51
8	09:11	08:21	07:11	06:45	05:29	04:39	04:47	05:42	06:47	07:50	07:59	08:59
	16:09	17:14	18:19	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:19	07:08	06:43	05:27	04:38	04:48	05:44	06:49	07:52	08:01	09:00
	16:10	17:17	18:21	20:28	21:33	22:27	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:31	21:36	22:28	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:23	04:37	04:51	05:48	06:53	07:56	08:05	09:03
	16:14	17:21	18:25	20:33	21:38	22:29	22:25	21:27	20:06	18:43	16:28	15:49
12	09:07	08:12	07:00	06:35	05:20	04:36	04:52	05:50	06:55	07:58	08:08	09:04
	16:16	17:24	18:28	20:35	21:40	22:30	22:24	21:25	20:03	18:40	16:26	15:49
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:30	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:03	08:12	09:06
	16:19	17:28	18:32	20:39	21:44	22:31	22:21	21:20	19:57	18:35	16:22	15:48
15	09:04	08:05	06:52	06:27	05:14	04:35	04:57	05:56	07:01	08:05	08:14	09:07
	16:21	17:31	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:03	08:02	06:49	06:24	05:12	04:35	04:58	05:59	07:03	08:07	08:17	09:08
	16:23	17:33	18:36	20:44	21:48	22:33	22:19	21:15	19:52	18:30	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:35	05:00	06:01	07:05	08:09	08:19	09:09
	16:25	17:35	18:39	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:19	05:08	04:34	05:01	06:03	07:08	08:11	08:21	09:10
	16:27	17:38	18:41	20:48	21:52	22:34	22:16	21:10	19:46	18:24	16:15	15:48
19	08:58	07:55	06:41	06:16	05:06	04:34	05:03	06:05	07:10	08:14	08:23	09:11
	16:29	17:40	18:43	20:50	21:54	22:34	22:14	21:07	19:43	18:22	16:13	15:48
20	08:57	07:52	06:38	06:13	05:05	04:34	05:05	06:07	07:12	08:16	08:25	09:12
	16:31	17:42	18:45	20:52	21:56	22:34	22:13	21:05	19:41	18:19	16:11	15:49
21	08:56	07:50	06:35	06:11	05:03	04:34	05:07	06:09	07:14	08:18	08:27	09:12
	16:33	17:45	18:47	20:55	21:58	22:35	22:11	21:02	19:38	18:17	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:13
	16:36	17:47	18:49	20:57	21:59	22:35	22:09	21:00	19:35	18:14	16:08	15:50
23	08:52	07:45	06:29	06:06	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:52	20:59	22:01	22:35	22:07	20:57	19:32	18:12	16:06	15:50
24	08:51	07:42	06:27	06:03	04:58	04:35	05:12	06:15	07:20	08:25	08:34	09:14
	16:40	17:52	18:54	21:01	22:03	22:35	22:06	20:54	19:29	18:09	16:05	15:51
25	08:49	07:40	06:24	06:00	04:56	04:36	05:14	06:17	07:22	08:27	08:36	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:04	20:52	19:27	18:07	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:20	07:24	08:29	08:38	09:14
	16:44	17:56	18:58	21:05	22:07	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:35	06:18	05:55	04:53	04:37	05:18	06:22	07:26	08:31	08:40	09:15
	16:47	17:58	19:00	21:08	22:08	22:35	22:00	20:46	19:21	18:02	16:01	15:53
28	08:44	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	08:34	08:41	09:15
	16:49	18:01	19:02	21:10	22:10	22:35	21:58	20:44	19:18	18:00	16:59	15:54
29	08:42		07:13	05:50	04:50	04:38	05:22	06:26	07:30	08:36	08:43	09:15
	16:51		20:05	21:12	22:12	22:34	21:56	20:41	19:16	18:00	16:57	15:58
30	08:40		07:10	05:48	04:49	04:39	05:24	06:28	07:33	08:38	08:45	09:15
	16:53		20:07	21:14	22:13	22:34	21:54	20:38	19:13	18:00	16:54	15:56
31	08:38		07:07		04:47		05:26	06:30		07:40		09:14
	16:56		20:09		22:15		21:52	20:36		16:52		15:57
Potential sun hours	230	263	366	429	513	536	536	473	385	322	243	209
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AO - Shadow Receptor: Jaunkaleji
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	08:36 16:58	07:29 18:03	16:46 (4) 20:11	07:04 21:16	05:45 22:16	04:46 22:33	04:39 21:49	05:27 20:33	06:32 19:10	18:25 (3) 18:39 (3)	07:42 16:49	08:47 15:56
2	09:14 16:00	08:34 17:00	07:26 18:05	16:51 (4) 20:13	07:02 21:18	05:43 22:18	04:45 22:33	04:40 21:47	05:29 20:30	06:34 19:07	18:27 (3) 18:36 (3)	07:45 16:47	08:49 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	06:36 19:04	18:36 (3)	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	05:38 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	06:38 19:02	18:36 (3)	07:41 16:43	08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:20	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	06:40 18:59	18:36 (3)	07:43 16:40	08:54 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:37 21:38	06:42 20:19	06:42 18:56	18:36 (3)	07:45 16:38	08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	06:44 18:53	18:36 (3)	07:47 16:36	08:57 15:51
8	09:10 16:08	08:21 17:14	07:10 18:18	06:45 20:26	05:29 21:31	04:39 22:25	04:46 22:28	05:42 21:34	06:46 20:14	06:46 18:51	18:36 (3)	07:49 16:34	08:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	06:42 20:28	05:27 21:33	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	06:49 18:48	18:36 (3)	07:52 16:32	09:00 15:49
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	05:25 21:35	04:37 22:27	04:49 22:26	05:46 21:29	06:51 20:08	06:51 18:45	18:36 (3)	07:54 16:30	09:01 15:49
11	09:08 16:13	08:14 17:21	07:02 18:25	06:37 20:33	05:22 21:37	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	06:53 18:43	18:36 (3)	07:56 16:28	09:02 15:49
12	09:07 16:15	08:12 17:23	16:48 (4) 18:27	7 17:56 (3)	06:59 20:35	05:20 21:39	04:36 22:29	05:50 21:24	06:55 20:02	06:55 18:40	18:36 (3)	07:58 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	16:43 (4) 18:29	12 17:59 (3)	06:57 20:32	05:18 21:41	04:36 22:30	05:52 21:22	06:57 20:00	06:57 18:37	17:17 (4) 17:26 (4)	08:00 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	16:42 (4) 18:32	16 18:01 (3)	06:54 20:29	05:16 21:44	04:35 22:31	05:54 21:20	06:59 19:57	06:59 18:35	17:26 (4) 17:35 (4)	18:02 16:22	09:06 15:48
15	09:03 16:21	08:04 17:30	16:40 (4) 18:34	20 18:03 (3)	06:59 20:26	05:14 21:46	04:35 22:32	05:56 21:17	07:01 19:54	07:01 18:32	17:35 (4) 17:44 (4)	18:05 16:20	09:07 15:48
16	09:02 16:23	08:02 17:33	16:39 (4) 18:36	22 18:04 (3)	06:49 20:43	05:12 21:48	04:34 22:32	05:58 21:18	07:03 19:51	07:03 18:29	17:44 (4) 17:53 (4)	18:07 16:18	09:08 15:48
17	09:01 16:25	08:00 17:35	16:38 (4) 18:38	23 18:04 (3)	06:46 20:46	05:10 21:50	04:34 22:33	06:00 21:12	07:05 19:49	07:05 18:27	17:53 (4) 18:02 (4)	18:09 16:16	09:09 15:48
18	09:00 16:27	07:57 17:37	16:38 (4) 18:40	24 18:05 (3)	06:43 20:48	05:08 21:52	04:34 22:33	06:03 21:10	07:07 19:46	07:07 18:33 (3)	18:02 (4) 18:11 (4)	18:24 16:14	09:10 15:48
19	08:58 16:29	07:55 17:40	16:37 (4) 18:43	24 18:04 (3)	06:16 20:50	05:06 21:53	04:34 22:34	06:05 21:07	07:09 19:43	07:09 18:31 (3)	18:03 (4) 18:12 (4)	18:23 16:13	09:11 15:48
20	08:57 16:31	07:52 17:42	16:37 (4) 18:45	24 18:03 (3)	06:13 20:52	05:04 21:55	04:34 22:34	06:07 21:04	07:11 19:40	07:11 18:28 (3)	18:06 (4) 18:15 (4)	18:24 16:13	09:11 15:48
21	08:55 16:33	07:50 17:44	16:37 (4) 18:47	23 18:02 (3)	06:10 20:54	05:03 21:57	04:34 22:34	06:09 21:02	07:13 19:37	07:13 18:27 (3)	18:08 (4) 18:16 (4)	18:23 16:26	09:12 15:49
22	08:54 16:35	07:47 17:47	16:37 (4) 18:49	22 18:02 (3)	06:08 20:56	05:01 21:59	04:34 22:35	06:11 20:59	07:16 19:35	07:16 18:25 (3)	18:02 (4) 18:14 (4)	18:29 16:25	09:13 15:49
23	08:52 16:38	07:45 17:49	16:37 (4) 18:51	21 18:00 (3)	06:05 20:59	04:59 22:01	04:35 22:35	06:13 20:57	07:18 19:32	07:18 18:24 (3)	18:02 (4) 18:11 (4)	18:29 16:24	09:13 15:50
24	08:50 16:40	07:42 17:51	16:38 (4) 18:54	19 18:00 (3)	06:03 21:01	04:57 22:03	04:35 22:35	06:15 20:54	07:20 19:29	07:20 18:24 (3)	18:02 (4) 18:09 (4)	18:24 16:25	09:14 15:50
25	08:49 16:42	07:39 17:54	16:38 (4) 18:56	15 17:58 (3)	06:00 21:03	04:56 22:05	04:35 22:35	06:17 20:51	07:22 19:26	07:22 18:23 (3)	18:02 (4) 18:06 (4)	18:29 16:23	09:14 15:51
26	08:47 16:44	07:37 17:56	16:39 (4) 18:58	10 17:55 (3)	05:58 21:05	04:54 22:06	04:36 22:35	06:19 20:49	07:24 19:24	07:24 18:23 (3)	18:02 (4) 18:07 (4)	18:29 16:20	09:14 15:52
27	08:45 16:46	07:34 17:58	16:40 (4) 19:00	21 18:02 (3)	06:18 21:07	05:55 22:08	04:36 22:35	06:21 20:46	07:26 19:21	07:26 18:22 (3)	18:02 (4) 18:07 (4)	18:29 16:17	09:14 15:53
28	08:43 16:49	07:32 18:00	16:42 (4) 19:02	28 18:03 (3)	06:15 21:10	05:53 22:10	04:37 22:34	06:24 20:43	07:28 19:18	07:28 18:22 (3)	18:02 (4) 18:07 (4)	18:29 16:12	09:14 15:54
29	08:41 16:51	18:00 18:00	16:55 (4) 19:02	29 18:04 (3)	06:15 21:12	05:50 22:11	04:38 22:34	06:26 20:41	07:30 19:15	07:30 18:23 (3)	18:02 (4) 18:07 (4)	18:29 16:13	09:14 15:55
30	08:39 16:53	18:00 18:00	16:55 (4) 19:02	30 18:05 (3)	06:15 21:14	05:48 22:13	04:38 22:34	06:26 20:38	07:30 19:13	07:30 18:24 (3)	18:02 (4) 18:07 (4)	18:29 16:14	09:14 15:56
31	08:38 16:55	18:00 18:00	16:55 (4) 19:02	31 18:06 (3)	06:15 21:14	05:47 22:15	04:38 22:34	06:26 20:35	07:30 19:13	07:30 18:24 (3)	18:02 (4) 18:07 (4)	18:29 16:15	09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210	
Total, worst case		331	287						264	360			
Sun reduction		0.23	0.38						0.42	0.27			
Oper. time red.		0.89	0.89						0.89	0.89			
Wind dir. red.		0.86	0.98						0.98	0.86			
Total reduction		0.17	0.32						0.36	0.21			
Total, real		56	93						95	75			

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

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

Shadow receptor: AP - Shadow Receptor: Ivnieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:42	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:49	20:33	19:10	16:49	15:56
2	09:14	08:33	07:26	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:31	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:22	22:20	22:31	21:43	20:25	19:01	16:43	15:53
5	09:12	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:19	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:38	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:10	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:46	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:18	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:51	08:01	09:00
	16:10	17:16	18:21	20:28	21:33	22:26	22:27	21:32	20:11	18:48	16:32	15:49
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:27	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:02
	16:13	17:21	18:25	20:33	21:37	22:28	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	06:59	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:39	22:29	22:24	21:24	20:02	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:35	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:29	20:37	21:41	22:30	22:22	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:43	22:31	22:21	21:19	19:57	18:35	16:22	15:48
15	09:03	08:04	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:04	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:48	06:24	05:12	04:34	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:18	21:15	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:00	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:37	18:40	20:48	21:52	22:33	22:15	21:10	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:53	22:34	22:14	21:07	19:43	18:21	16:13	15:48
20	08:57	07:52	06:37	06:13	05:04	04:34	05:05	06:07	07:11	08:15	08:25	09:11
	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:48
21	08:55	07:50	06:35	06:10	05:03	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:34	22:11	21:02	19:37	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:12
	16:35	17:47	18:49	20:56	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:13
	16:40	17:51	18:53	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:39	06:24	06:00	04:56	04:35	05:14	06:17	07:22	08:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:03	20:51	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	08:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:17	06:21	07:26	08:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	18:01	16:00	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	08:33	08:41	09:14
	16:49	18:00	19:02	21:09	22:10	22:34	21:58	20:43	19:18	18:00	16:59	15:54
29	08:41		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	18:00	16:56	15:58
30	08:39		07:10	05:48	04:48	04:38	05:23	06:28	07:32	08:38	08:45	09:14
	16:53		20:06	21:14	22:13	22:34	21:54	20:38	19:12	18:00	16:54	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:55		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AQ - Shadow Receptor: Ivnieku ferma
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	07:34 19:10	18:14 (4) 18:37 (4)	07:42 16:49	08:47 15:56
2	09:14 16:00	08:33 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	18:14 (4) 18:36 (4)	07:45 16:47	08:49 15:55
3	09:13 16:01	08:31 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	07:39 19:04	18:15 (4) 18:33 (4)	07:47 16:45	08:50 15:54
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	05:38 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	07:41 19:02	18:16 (4) 18:30 (4)	07:49 16:43	08:52 15:53
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:19	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	07:43 18:59	18:17 (4) 18:27 (4)	07:52 16:40	08:54 15:52
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:37 21:38	06:42 20:19	07:45 18:56	18:21 (4) 18:25 (4)	07:54 16:38	08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	07:47 18:53	18:21 (4) 18:25 (4)	07:56 16:36	08:57 15:51
8	09:10 16:08	08:21 17:14	07:10 18:18	7 17:42 (4) 17:49 (4)	06:45 20:26	05:29 21:31	04:39 22:25	04:46 22:28	06:46 21:34	07:49 18:51	18:24 (4) 18:28 (4)	07:58 16:34	08:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	13 17:52 (4) 17:37 (4)	06:42 20:28	05:27 21:33	04:38 22:26	04:48 22:27	06:49 20:11	07:51 18:48	18:29 (4) 18:33 (4)	08:01 16:32	09:00 15:50
10	09:09 16:12	08:16 17:19	07:05 18:23	17 17:54 (4) 17:34 (4)	06:40 20:30	05:25 21:35	04:37 22:26	04:49 22:26	06:51 20:08	07:54 18:45	18:34 (4) 18:38 (4)	08:03 16:30	09:01 15:49
11	09:08 16:14	08:14 17:21	07:02 18:25	20 17:56 (4) 17:35 (4)	06:37 20:33	05:22 21:37	04:37 22:28	04:50 22:25	06:53 20:05	07:56 18:43	18:39 (4) 18:43 (4)	08:05 16:28	09:02 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	23 17:58 (4) 17:34 (4)	06:34 20:35	05:20 21:39	04:36 22:29	04:52 22:24	06:55 20:02	07:58 18:40	18:44 (4) 18:48 (4)	08:07 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	24 17:58 (4) 17:34 (4)	06:32 20:37	05:18 21:41	04:36 22:22	05:52 21:22	06:57 20:00	08:00 18:37	18:49 (4) 18:53 (4)	08:10 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	24 17:58 (4) 17:33 (4)	06:29 20:39	05:16 21:43	04:35 22:21	05:54 21:19	06:59 19:57	08:02 18:35	18:54 (4) 18:58 (4)	08:12 16:22	09:06 15:48
15	09:03 16:21	08:04 17:30	06:51 18:34	24 17:57 (4) 17:33 (4)	06:26 20:41	05:14 21:46	04:35 22:20	05:56 21:17	07:01 19:54	08:04 18:32	19:02 (4) 19:06 (4)	08:14 16:20	09:07 15:48
16	09:02 16:23	08:02 17:33	06:48 18:36	24 17:57 (4) 17:34 (4)	06:24 20:43	05:12 21:48	04:35 22:32	05:58 22:18	07:03 19:51	08:07 18:29	19:07 (4) 19:11 (4)	08:16 16:18	09:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	23 17:57 (4) 17:34 (4)	06:21 20:46	05:10 21:50	04:34 22:33	06:00 22:17	07:05 19:49	08:09 18:27	19:12 (4) 19:16 (4)	08:18 16:16	09:09 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	22 17:56 (4) 17:34 (4)	06:18 20:48	05:08 21:51	04:34 22:33	06:03 22:15	07:07 19:46	08:11 18:24	19:17 (4) 19:21 (4)	08:21 16:14	09:10 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	20 17:54 (4) 17:35 (4)	06:16 20:50	05:06 21:53	04:34 22:34	06:05 22:14	07:09 19:43	08:13 18:21	19:22 (4) 19:26 (4)	08:23 16:13	09:11 15:48
20	08:57 16:31	07:52 17:42	06:37 18:45	18 17:53 (4) 17:36 (4)	06:13 20:52	05:04 21:55	04:34 22:34	06:05 22:12	07:11 19:40	08:15 18:19	19:27 (4) 19:31 (4)	08:25 16:11	09:11 15:49
21	08:55 16:33	07:50 17:44	06:35 18:47	15 17:51 (4) 17:39 (4)	06:10 20:54	05:03 21:57	04:34 22:34	06:06 22:11	07:13 19:37	08:18 18:33 (4)	19:32 (4) 19:36 (4)	08:27 16:09	09:12 15:49
22	08:54 16:35	07:47 17:47	06:32 18:49	9 17:48 (4) 17:34 (4)	06:08 20:56	05:01 21:59	04:34 22:35	06:11 22:09	07:16 19:35	08:20 18:36 (4)	19:37 (4) 19:41 (4)	08:29 16:08	09:12 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:37 (4)	19:42 (4) 19:46 (4)	08:31 16:06	09:13 15:50
24	08:50 16:40	07:42 17:51	06:26 18:53	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:05	06:15 20:54	07:20 19:29	08:24 18:38 (4)	19:47 (4) 19:51 (4)	08:33 16:05	09:13 15:50
25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:03	06:17 20:51	07:22 19:26	08:24 18:38 (4)	19:52 (4) 19:56 (4)	08:35 16:03	09:14 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	05:58 21:05	04:54 22:06	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	08:29 18:39 (4)	19:57 (4) 20:01 (4)	08:37 16:02	09:14 15:52
27	08:45 16:46	07:34 17:58	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:35	05:17 22:00	06:21 20:46	07:26 19:21	08:31 18:39 (4)	20:02 (4) 20:06 (4)	08:39 16:00	09:14 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	05:53 21:09	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:43	07:28 19:18	08:34 18:38 (4)	20:07 (4) 20:11 (4)	08:41 15:59	09:14 15:54
29	08:41 16:51	07:31 20:04	06:15 19:02	05:50 21:12	04:50 22:11	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	08:35 18:38 (4)	20:12 (4) 20:16 (4)	08:43 15:58	09:14 15:55
30	08:39 16:53	07:30 20:06	06:15 19:02	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:12	08:36 18:38 (4)	20:17 (4) 20:21 (4)	08:45 15:57	09:14 15:56
31	08:38 16:55	07:27 20:09	06:15 19:02	05:47 22:15	04:47 22:15	04:38 22:34	05:25 21:52	06:30 20:35	07:33 19:13	08:37 18:39 (4)	20:18 (4) 20:22 (4)	08:46 15:57	09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210	
Total, worst case			283						198		91		
Sun reduction			0.38						0.42		0.27		
Oper. time red.			0.89						0.89		0.89		
Wind dir. red.			0.97						0.97		0.97		
Total reduction			0.33						0.36		0.24		
Total, real			92						72		22		

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: AR - Shadow Receptor: Kalnenieki
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:14 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	07:34 19:10	07:42 16:49	08:47 15:56	
2	09:14 16:00	08:33 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	07:45 16:47	08:49 15:55	
3	09:13 16:01	08:31 17:02	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	07:39 19:04	07:47 16:45	08:50 15:54	
4	09:13 16:02	08:29 17:05	07:21 18:09	06:56 20:17	05:38 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	07:41 19:01	07:49 16:43	08:52 15:53	
5	09:12 16:04	08:27 17:07	07:18 18:12	06:53 20:19	05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	07:43 18:59	07:52 16:40	08:54 15:52	
6	09:12 16:05	08:25 17:09	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:37 21:38	06:42 20:19	07:45 18:56	07:54 16:38	08:55 15:51	
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	07:47 18:53	07:56 16:36	08:57 15:51	
8	09:10 16:08	08:21 17:14	07:10 18:18	06:45 20:26	05:29 21:31	04:39 22:25	04:46 22:28	05:42 21:34	06:46 20:14	07:49 18:51	07:58 16:34	08:58 15:50	
9	09:10 16:10	08:18 17:16	07:08 18:21	06:42 20:28	05:27 21:33	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	07:51 18:48	08:01 16:32	09:00 15:50	
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	05:25 21:35	04:37 22:27	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49	
11	09:08 16:14	08:14 17:21	07:02 18:25	06:37 20:32	05:22 21:37	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:02 15:49	
12	09:07 16:15	08:12 17:23	06:59 18:27	06:34 20:35	05:20 21:39	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:02	18:53 (4) 18:58 (4)	07:58 18:40	08:07 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	06:32 20:37	05:18 21:41	04:36 22:30	04:53 22:22	05:52 21:22	06:57 20:00	18:49 (4) 19:01 (4)	08:00 18:37	08:10 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	05:16 21:43	04:35 22:31	04:55 22:21	05:54 21:19	06:59 19:57	18:46 (4) 19:03 (4)	08:02 18:35	08:12 16:22	09:06 15:48
15	09:03 16:21	08:04 17:30	06:51 18:34	06:26 20:41	05:14 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	18:44 (4) 19:04 (4)	08:04 18:32	08:14 16:20	09:07 15:48
16	09:02 16:23	08:02 17:33	06:48 18:36	06:24 20:43	05:12 21:48	04:35 22:32	04:58 22:18	05:58 21:15	07:03 19:51	18:43 (4) 19:04 (4)	08:07 18:29	08:16 16:18	09:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	06:21 20:46	05:10 21:50	04:34 22:33	05:00 22:17	06:00 21:12	07:05 19:49	18:42 (4) 19:04 (4)	08:09 18:27	08:18 16:16	09:09 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	06:18 20:48	05:08 21:51	04:34 22:33	05:01 22:15	06:03 21:09	07:07 19:46	18:41 (4) 19:04 (4)	08:11 18:24	08:21 16:14	09:10 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	06:16 20:50	05:06 21:53	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	18:41 (4) 19:05 (4)	08:13 18:21	08:23 16:13	09:11 15:48
20	08:57 16:31	07:52 17:42	06:37 18:45	06:13 20:52	05:04 21:55	04:34 22:34	05:05 22:12	06:07 21:04	07:11 19:40	18:41 (4) 19:05 (4)	08:15 18:19	08:25 16:11	09:11 15:49
21	08:55 16:33	07:50 17:44	06:35 18:47	06:10 20:54	05:03 21:57	04:34 22:34	05:06 22:11	06:09 21:02	07:13 19:37	18:41 (4) 19:04 (4)	08:18 18:16	08:27 16:09	09:12 15:49
22	08:54 16:35	07:47 17:47	06:32 18:49	06:08 20:56	05:01 21:59	04:34 22:35	05:08 22:09	06:11 20:59	07:16 19:35	18:41 (4) 19:03 (4)	08:20 18:14	08:29 16:08	09:12 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	18:41 (4) 19:01 (4)	08:22 18:11	08:31 16:06	09:13 15:50
24	08:50 16:40	07:42 17:51	06:26 18:53	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:05	06:15 20:54	07:20 19:29	18:41 (4) 18:58 (4)	08:24 18:09	08:33 16:05	09:13 15:50
25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:03	06:17 20:51	07:22 19:26	18:42 (4) 18:55 (4)	07:27 17:06	08:35 16:03	09:14 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	05:58 21:05	04:54 22:06	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	18:44 (4) 18:52 (4)	07:29 17:04	08:37 16:02	09:14 15:52
27	08:45 16:46	07:34 17:58	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:35	05:17 22:00	06:21 20:46	07:26 19:21	18:47 (4) 18:50 (4)	07:31 17:01	08:39 16:01	09:14 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	05:53 21:09	04:51 22:10	04:37 22:34	05:19 21:58	06:24 20:43	07:28 19:18	18:47 (4) 18:55 (4)	07:33 17:06	08:41 16:03	09:14 15:54
29	08:41 16:51	07:13 20:04	07:13 19:12	05:50 21:12	04:50 22:11	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	18:52 (4) 18:47 (4)	07:36 17:04	08:43 16:02	09:14 15:55
30	08:39 16:53	07:10 20:06	07:10 19:11	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:12	18:52 (4) 18:47 (4)	07:38 17:04	08:45 16:02	09:14 15:56
31	08:38 16:55	07:07 20:09	07:07 19:07	05:47 21:15	04:47 22:15	04:37 22:35	05:25 21:52	06:30 20:35	07:40 16:52	18:50 (4) 18:47 (4)	07:40 17:01	08:45 16:01	09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210	
Total, worst case			272						274				
Sun reduction			0.38						0.42				
Oper. time red.			0.89						0.89				
Wind dir. red.			0.99						0.99				
Total reduction			0.33						0.37				
Total, real			91						102				

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: AS - Shadow Receptor: Mierkalni
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:42	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:49	20:33	19:10	16:49	15:56
2	09:14	08:33	07:26	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:49
	16:00	17:00	18:05	20:13	21:18	22:18	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:31	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:22	22:20	22:31	21:43	20:25	19:01	16:43	15:53
5	09:12	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:52	08:54
	16:04	17:07	18:12	20:19	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:37	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:38	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:39	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:10	08:21	07:10	06:45	05:29	04:39	04:46	05:42	06:46	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:14	18:51	16:34	15:50
9	09:10	08:18	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:51	08:01	09:00
	16:10	17:16	18:21	20:28	21:33	22:26	22:27	21:32	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:27	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:02
	16:14	17:21	18:25	20:32	21:37	22:28	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:12	06:59	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:39	22:29	22:24	21:24	20:02	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:10	09:05
	16:17	17:26	18:29	20:37	21:41	22:30	22:22	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:43	22:31	22:21	21:19	19:57	18:35	16:22	15:48
15	09:03	08:04	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:04	08:14	09:07
	16:21	17:30	18:34	20:41	21:46	22:32	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:48	06:24	05:12	04:35	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:48	22:32	22:18	21:15	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:00	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:46	21:50	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	09:00	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:21	09:10
	16:27	17:37	18:40	20:48	21:51	22:33	22:15	21:09	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:11
	16:29	17:40	18:43	20:50	21:53	22:34	22:14	21:07	19:43	18:21	16:13	15:48
20	08:57	07:52	06:37	06:13	05:04	04:34	05:05	06:07	07:11	08:15	08:25	09:11
	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:10	05:03	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:34	22:11	21:02	19:37	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:12
	16:35	17:47	18:49	20:56	21:59	22:35	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:13
	16:40	17:51	18:53	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:50
25	08:49	07:39	06:24	06:00	04:56	04:35	05:14	06:17	07:22	08:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:05	22:35	22:03	20:51	19:26	18:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	08:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:35	22:02	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:17	06:21	07:26	08:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:34	22:00	20:46	19:21	18:01	16:00	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	08:33	08:41	09:14
	16:49	18:00	19:02	21:09	22:10	22:34	21:58	20:43	19:18	17:59	15:59	15:54
29	08:41		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	17:56	15:58	15:55
30	08:39		07:10	05:48	04:48	04:38	05:23	06:28	07:32	08:38	08:45	09:14
	16:53		20:06	21:14	22:13	22:34	21:54	20:38	19:12	17:54	15:57	15:56
31	08:38		07:07		04:47		05:25	06:30		07:40		09:14
	16:55		20:09		22:15		21:52	20:35		16:52		15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AT - Shadow Receptor: Setas
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:35	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:42	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:49	20:33	19:10	16:49	15:56
2	09:14	08:33	07:26	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:48
	16:00	17:00	18:05	20:13	21:18	22:17	22:33	21:47	20:30	19:07	16:47	15:55
3	09:13	08:31	07:24	06:59	05:41	04:43	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:22	22:20	22:31	21:43	20:24	19:01	16:43	15:53
5	09:12	08:27	07:18	06:53	05:36	04:41	04:43	05:35	06:40	07:43	07:51	08:54
	16:04	17:07	18:12	20:19	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:38	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:10	08:21	07:10	06:45	05:29	04:39	04:47	05:42	06:46	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:13	18:51	16:34	15:50
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	16:10	17:16	18:21	20:28	21:33	22:26	22:27	21:31	20:11	18:48	16:32	15:50
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11	09:08	08:14	07:02	06:37	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:02
	16:14	17:21	18:25	20:32	21:37	22:28	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:11	06:59	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:04
	16:15	17:23	18:27	20:35	21:39	22:29	22:24	21:24	20:02	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:09	09:05
	16:17	17:26	18:29	20:37	21:41	22:30	22:22	21:22	20:00	18:37	16:24	15:48
14	09:05	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:43	22:31	22:21	21:19	19:57	18:35	16:22	15:48
15	09:03	08:04	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:04	08:14	09:07
	16:21	17:30	18:34	20:41	21:45	22:31	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:48	06:24	05:12	04:35	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:47	22:32	22:18	21:14	19:51	18:29	16:18	15:48
17	09:01	08:00	06:46	06:21	05:10	04:34	05:00	06:00	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:45	21:49	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	08:59	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:20	09:10
	16:27	17:37	18:40	20:48	21:51	22:33	22:15	21:09	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:10
	16:29	17:40	18:43	20:50	21:53	22:34	22:14	21:07	19:43	18:21	16:13	15:48
20	08:57	07:52	06:37	06:13	05:04	04:34	05:05	06:07	07:11	08:15	08:25	09:11
	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:10	05:03	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:34	22:10	21:02	19:37	18:16	16:09	15:49
22	08:54	07:47	06:32	06:08	05:01	04:34	05:08	06:11	07:16	08:20	08:29	09:12
	16:35	17:47	18:49	20:56	21:59	22:34	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:45	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:13
	16:40	17:51	18:53	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:51
25	08:49	07:39	06:24	06:00	04:56	04:35	05:14	06:17	07:22	08:27	08:35	09:14
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26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	08:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:35	22:01	20:49	19:24	18:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:18	06:21	07:26	08:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:34	22:00	20:46	19:21	18:01	16:01	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:19	06:24	07:28	08:33	08:41	09:14
	16:49	18:00	19:02	21:09	22:10	22:34	21:58	20:43	19:18	18:00	16:00	15:54
29	08:41		07:13	05:50	04:50	04:38	05:21	06:26	07:30	08:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	18:00	16:00	15:55
30	08:39		07:10	05:48	04:48	04:38	05:23	06:28	07:32	08:38	08:45	09:14
	16:53		20:06	21:14	22:13	22:33	21:54	20:38	19:12	18:00	16:00	15:56
31	08:37		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:14		21:51	20:35		16:52		15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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: AU - Shadow Receptor: Dalderi
 Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

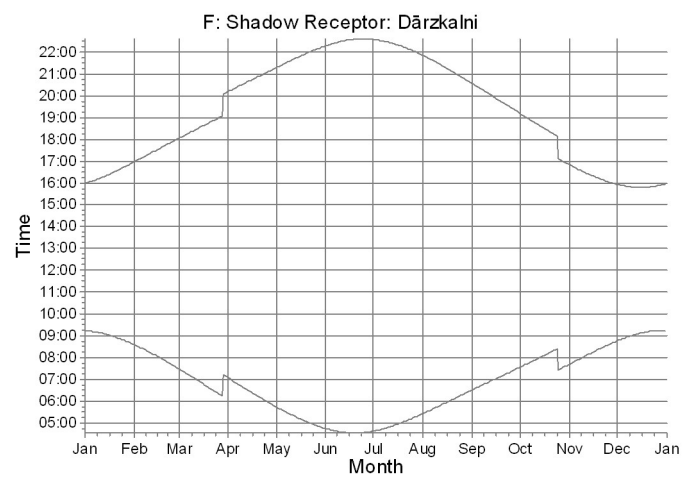
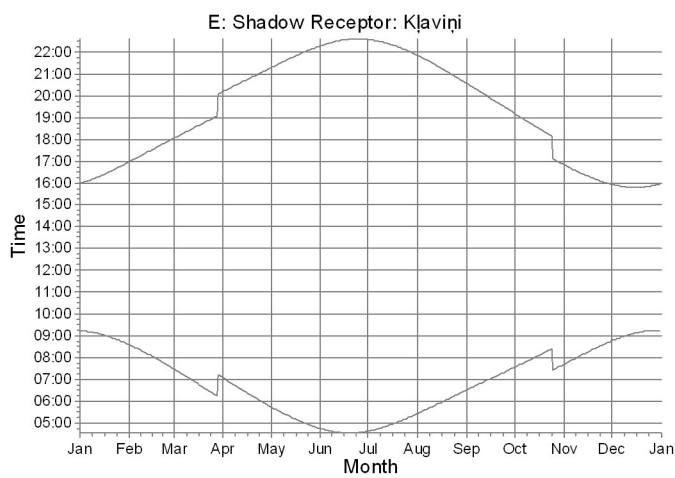
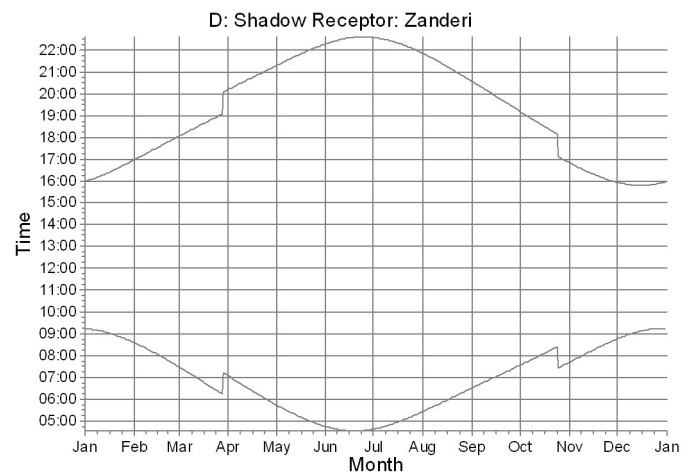
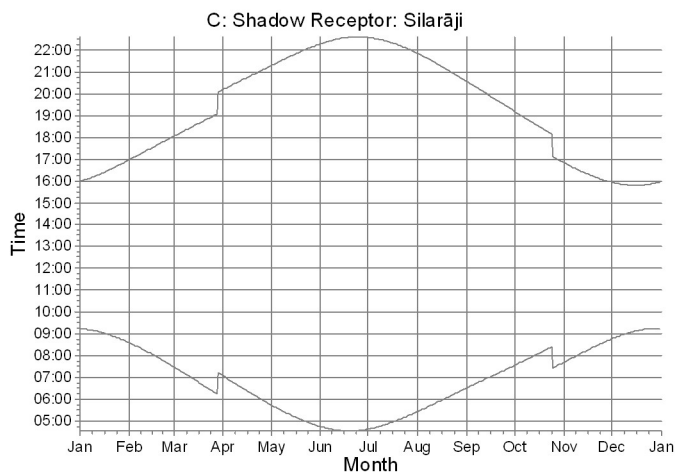
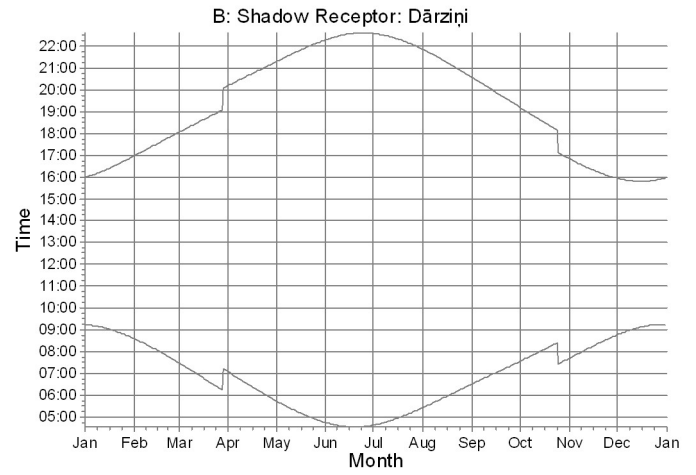
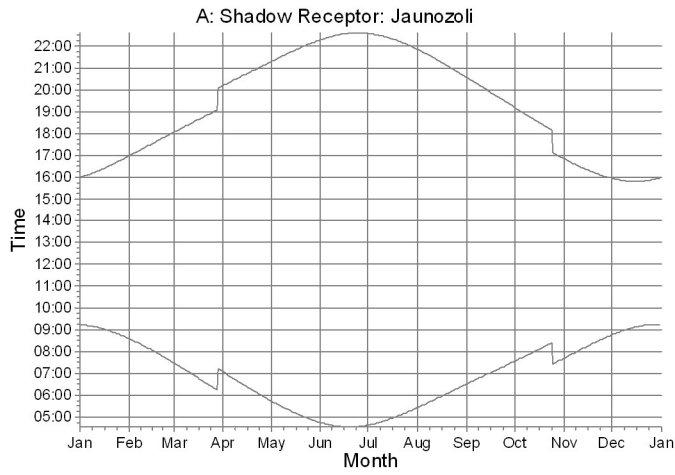
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:35	07:29	07:04	05:45	04:46	04:39	05:27	06:32	07:34	07:42	08:47
	15:58	16:58	18:03	20:11	21:16	22:16	22:33	21:49	20:33	19:10	16:49	15:56
2	09:13	08:33	07:26	07:02	05:43	04:45	04:40	05:29	06:34	07:37	07:45	08:48
	16:00	17:00	18:05	20:13	21:18	22:17	22:32	21:47	20:30	19:07	16:47	15:55
3	09:13	08:31	07:24	06:59	05:41	04:44	04:41	05:31	06:36	07:39	07:47	08:50
	16:01	17:02	18:07	20:15	21:20	22:19	22:32	21:45	20:27	19:04	16:45	15:54
4	09:13	08:29	07:21	06:56	05:38	04:42	04:42	05:33	06:38	07:41	07:49	08:52
	16:02	17:05	18:09	20:17	21:22	22:20	22:31	21:43	20:24	19:01	16:43	15:53
5	09:12	08:27	07:18	06:53	05:36	04:41	04:43	05:36	06:40	07:43	07:51	08:53
	16:04	17:07	18:12	20:19	21:25	22:21	22:30	21:41	20:22	18:59	16:40	15:52
6	09:12	08:25	07:16	06:51	05:34	04:40	04:44	05:38	06:42	07:45	07:54	08:55
	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:38	20:19	18:56	16:38	15:51
7	09:11	08:23	07:13	06:48	05:31	04:40	04:45	05:40	06:44	07:47	07:56	08:57
	16:07	17:12	18:16	20:24	21:29	22:24	22:29	21:36	20:16	18:53	16:36	15:51
8	09:10	08:21	07:10	06:45	05:29	04:39	04:47	05:42	06:46	07:49	07:58	08:58
	16:08	17:14	18:18	20:26	21:31	22:25	22:28	21:34	20:13	18:51	16:34	15:50
9	09:09	08:18	07:08	06:42	05:27	04:38	04:48	05:44	06:49	07:51	08:00	09:00
	16:10	17:16	18:21	20:28	21:33	22:26	22:27	21:31	20:11	18:48	16:32	15:50
10	09:09	08:16	07:05	06:40	05:25	04:37	04:49	05:46	06:51	07:54	08:03	09:01
	16:12	17:19	18:23	20:30	21:35	22:27	22:26	21:29	20:08	18:45	16:30	15:49
11	09:08	08:14	07:02	06:37	05:22	04:37	04:51	05:48	06:53	07:56	08:05	09:02
	16:14	17:21	18:25	20:32	21:37	22:28	22:25	21:27	20:05	18:43	16:28	15:49
12	09:07	08:11	06:59	06:34	05:20	04:36	04:52	05:50	06:55	07:58	08:07	09:03
	16:15	17:24	18:27	20:35	21:39	22:29	22:24	21:24	20:02	18:40	16:26	15:48
13	09:06	08:09	06:57	06:32	05:18	04:36	04:53	05:52	06:57	08:00	08:09	09:05
	16:17	17:26	18:29	20:37	21:41	22:30	22:22	21:22	20:00	18:37	16:24	15:48
14	09:04	08:07	06:54	06:29	05:16	04:35	04:55	05:54	06:59	08:02	08:12	09:06
	16:19	17:28	18:32	20:39	21:43	22:31	22:21	21:19	19:57	18:35	16:22	15:48
15	09:03	08:04	06:51	06:26	05:14	04:35	04:56	05:56	07:01	08:04	08:14	09:07
	16:21	17:31	18:34	20:41	21:45	22:31	22:20	21:17	19:54	18:32	16:20	15:48
16	09:02	08:02	06:48	06:24	05:12	04:35	04:58	05:58	07:03	08:07	08:16	09:08
	16:23	17:33	18:36	20:43	21:47	22:32	22:18	21:14	19:51	18:29	16:18	15:48
17	09:01	07:59	06:46	06:21	05:10	04:34	05:00	06:00	07:05	08:09	08:18	09:09
	16:25	17:35	18:38	20:45	21:49	22:33	22:17	21:12	19:49	18:27	16:16	15:48
18	08:59	07:57	06:43	06:18	05:08	04:34	05:01	06:03	07:07	08:11	08:20	09:10
	16:27	17:37	18:40	20:48	21:51	22:33	22:15	21:09	19:46	18:24	16:14	15:48
19	08:58	07:55	06:40	06:16	05:06	04:34	05:03	06:05	07:09	08:13	08:23	09:10
	16:29	17:40	18:43	20:50	21:53	22:34	22:14	21:07	19:43	18:21	16:13	15:48
20	08:57	07:52	06:37	06:13	05:04	04:34	05:05	06:07	07:11	08:15	08:25	09:11
	16:31	17:42	18:45	20:52	21:55	22:34	22:12	21:04	19:40	18:19	16:11	15:49
21	08:55	07:50	06:35	06:11	05:03	04:34	05:06	06:09	07:13	08:18	08:27	09:12
	16:33	17:44	18:47	20:54	21:57	22:34	22:10	21:02	19:37	18:16	16:09	15:49
22	08:53	07:47	06:32	06:08	05:01	04:35	05:08	06:11	07:16	08:20	08:29	09:12
	16:35	17:47	18:49	20:56	21:59	22:34	22:09	20:59	19:35	18:14	16:08	15:49
23	08:52	07:44	06:29	06:05	04:59	04:35	05:10	06:13	07:18	08:22	08:31	09:13
	16:38	17:49	18:51	20:59	22:01	22:35	22:07	20:57	19:32	18:11	16:06	15:50
24	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	08:33	09:13
	16:40	17:51	18:53	21:01	22:03	22:35	22:05	20:54	19:29	18:09	16:05	15:51
25	08:49	07:39	06:24	06:00	04:56	04:36	05:14	06:17	07:22	07:27	08:35	09:14
	16:42	17:54	18:56	21:03	22:04	22:35	22:03	20:51	19:26	17:06	16:03	15:51
26	08:47	07:37	06:21	05:58	04:54	04:36	05:16	06:19	07:24	07:29	08:37	09:14
	16:44	17:56	18:58	21:05	22:06	22:34	22:01	20:49	19:24	17:04	16:02	15:52
27	08:45	07:34	06:18	05:55	04:53	04:36	05:18	06:21	07:26	07:31	08:39	09:14
	16:46	17:58	19:00	21:07	22:08	22:34	21:59	20:46	19:21	17:01	16:01	15:53
28	08:43	07:32	06:15	05:53	04:51	04:37	05:20	06:24	07:28	07:33	08:41	09:14
	16:49	18:00	19:02	21:09	22:10	22:34	21:58	20:43	19:18	16:59	15:59	15:54
29	08:41		07:13	05:50	04:50	04:38	05:21	06:26	07:30	07:36	08:43	09:14
	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	16:57	15:58	15:55
30	08:39		07:10	05:48	04:48	04:38	05:23	06:28	07:32	07:38	08:45	09:14
	16:53		20:06	21:14	22:13	22:33	21:53	20:38	19:12	16:54	15:57	15:56
31	08:37		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:14		21:51	20:35		16:52		15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

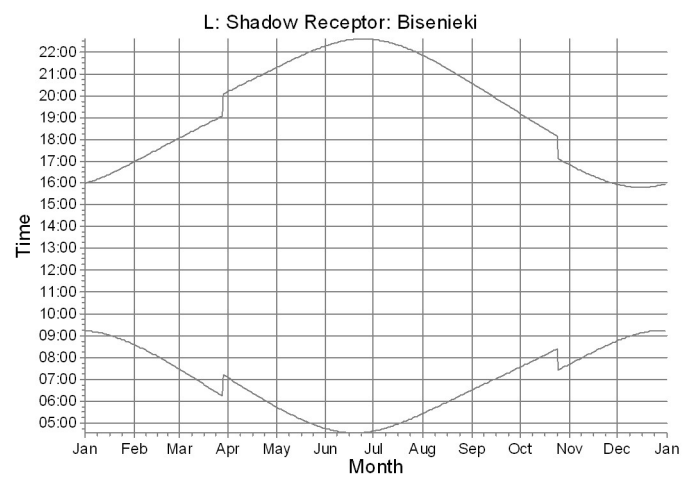
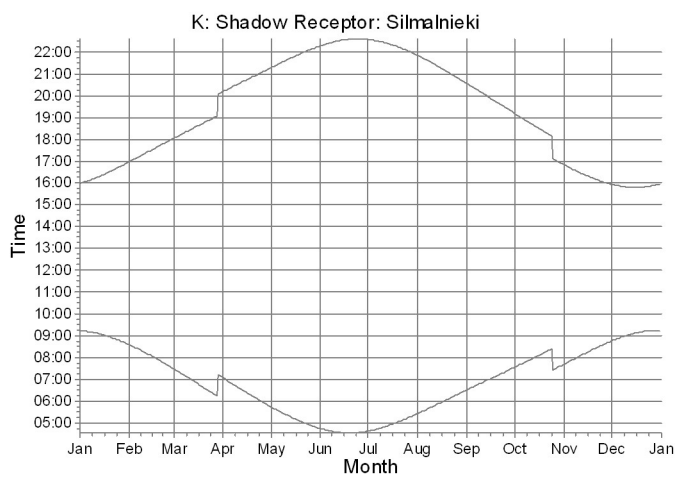
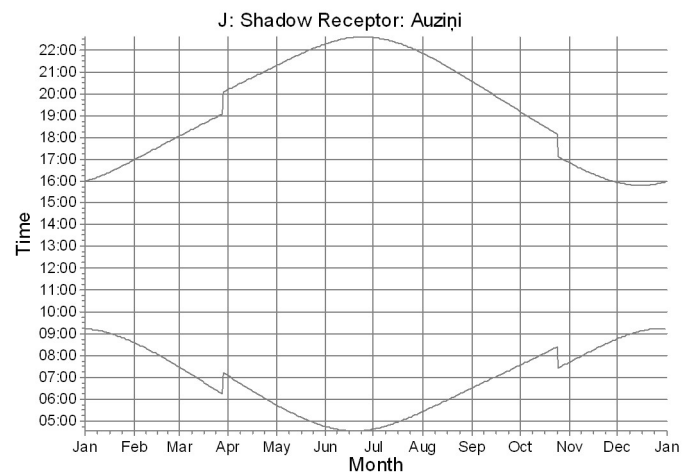
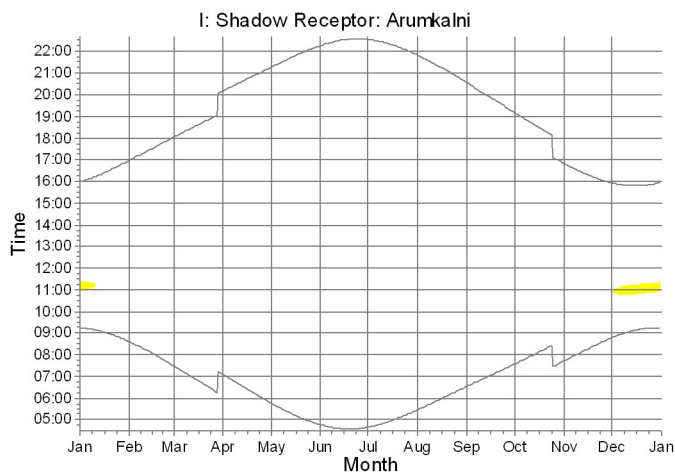
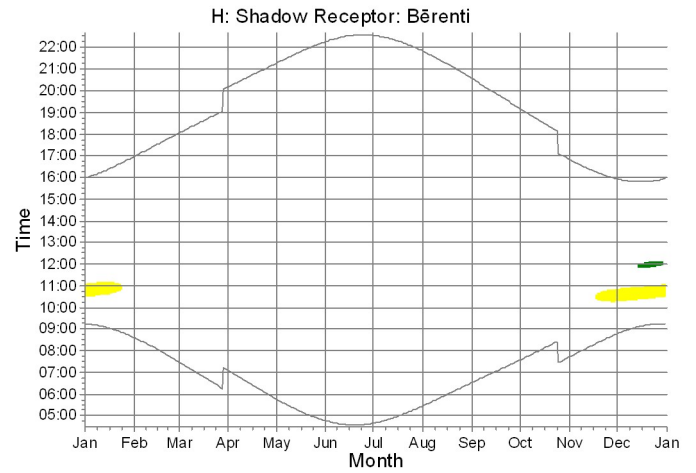
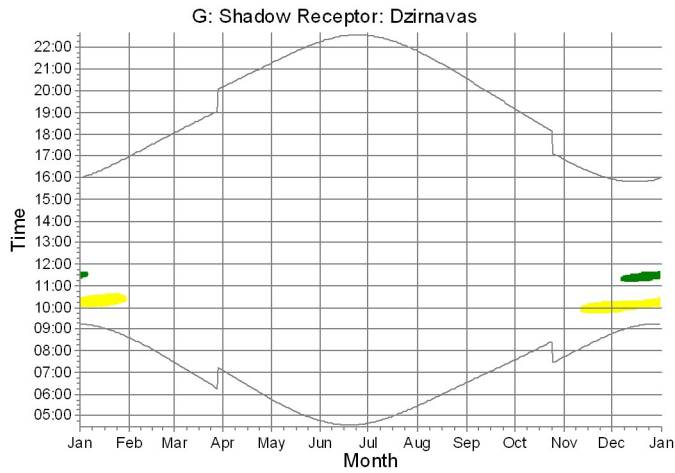
Table layout: For each day in each month the following matrix apply

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, graphical



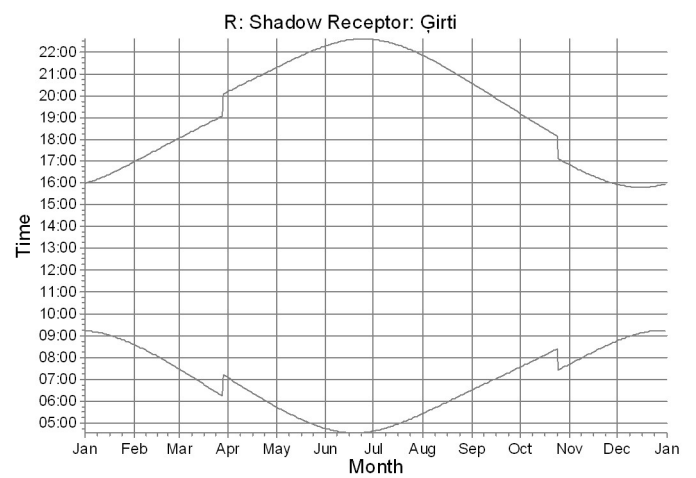
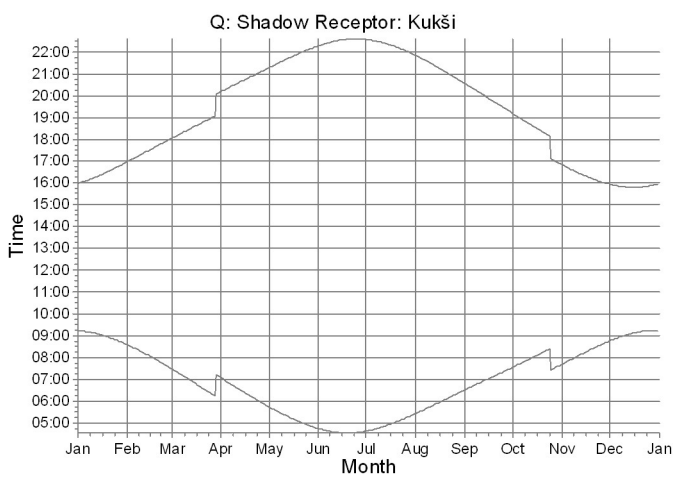
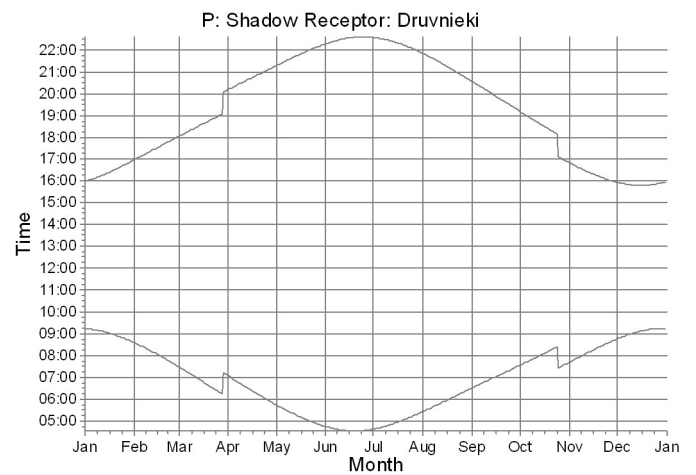
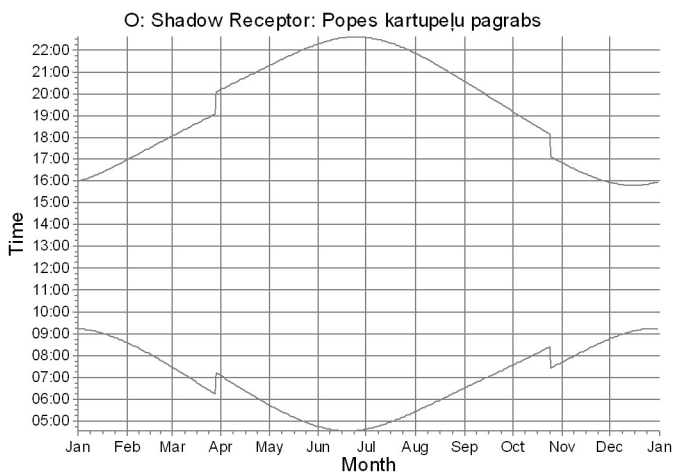
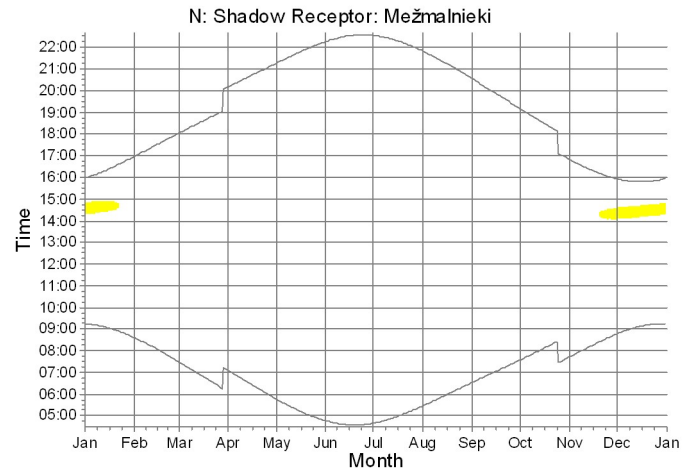
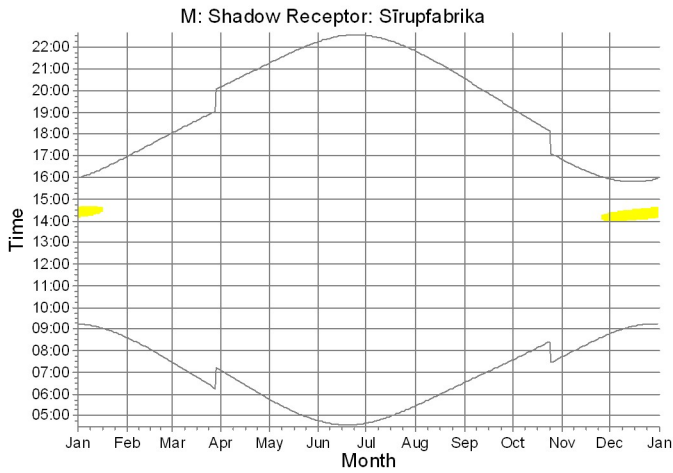
SHADOW - Calendar, graphical



WTGs

1: VES-1 (1.alternativa)
 2: VES-2 (1.alternativa)

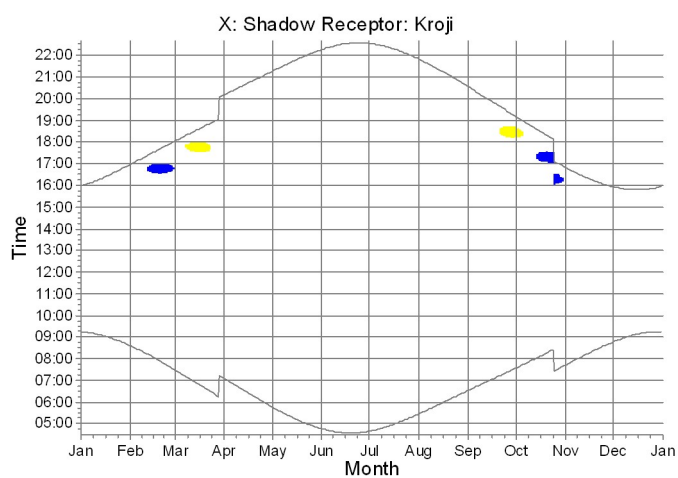
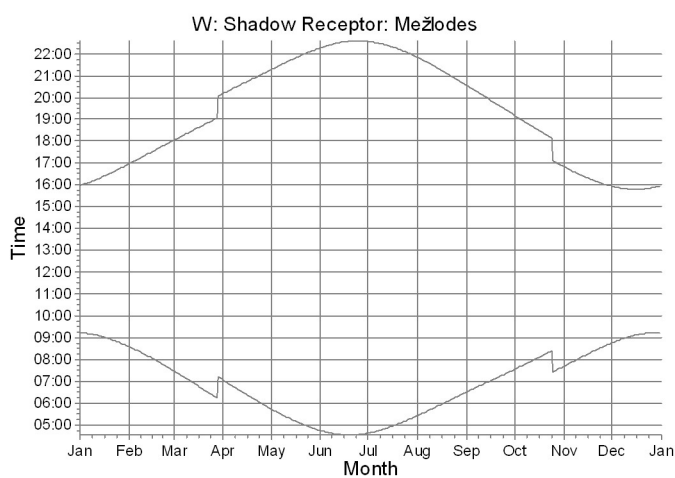
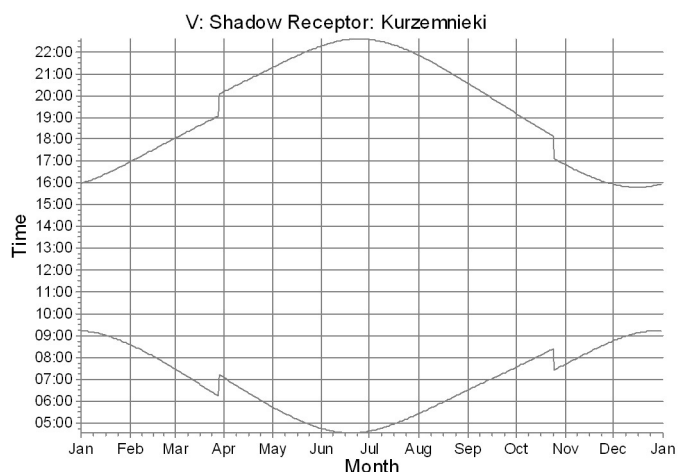
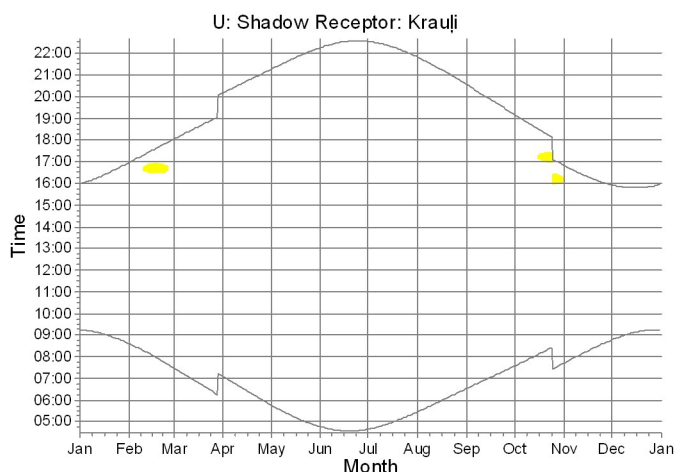
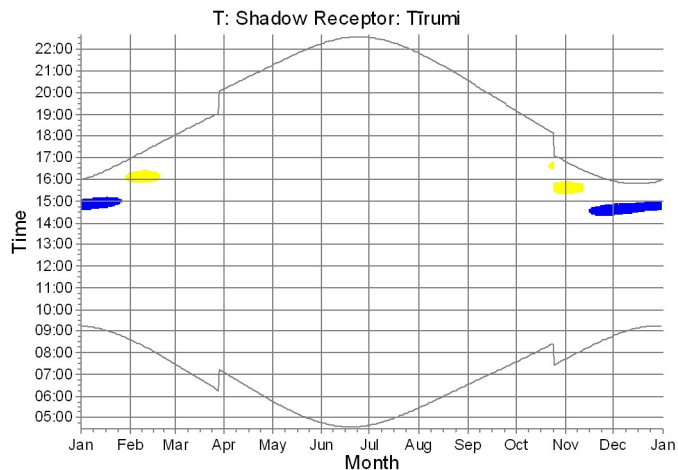
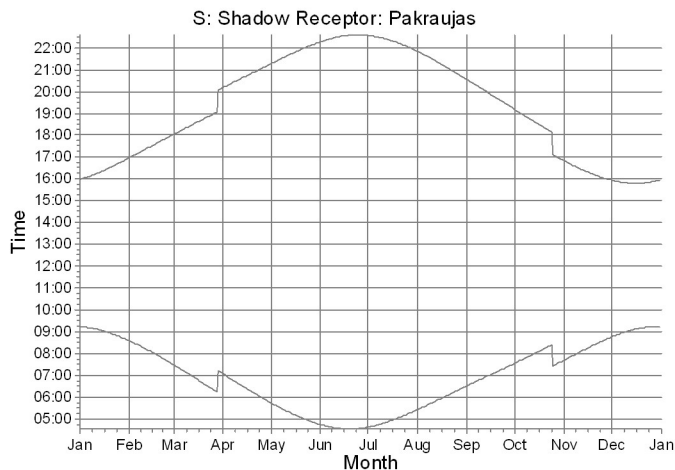
SHADOW - Calendar, graphical



WTGs

2: VES-2 (1.alternativa)

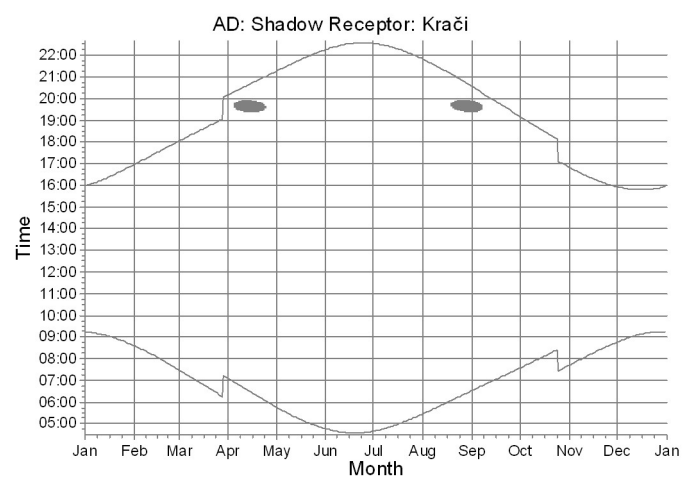
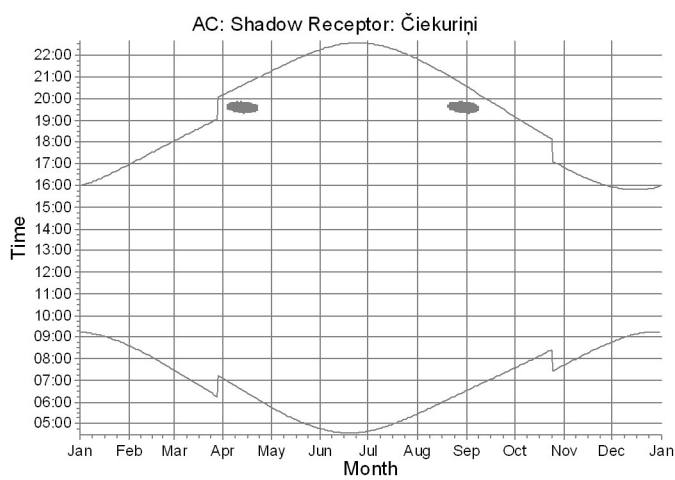
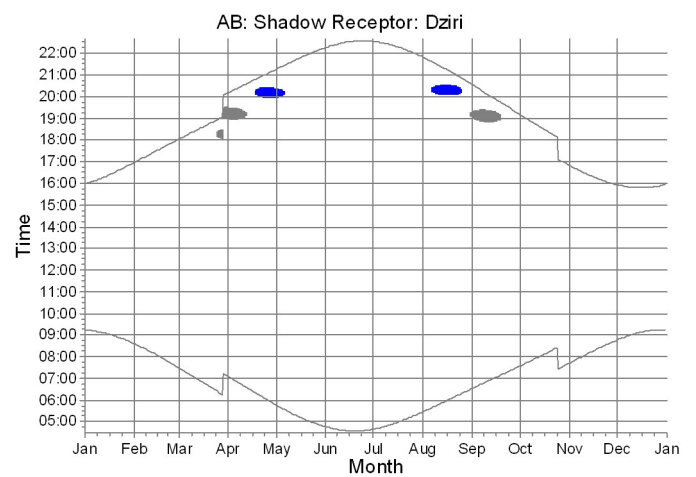
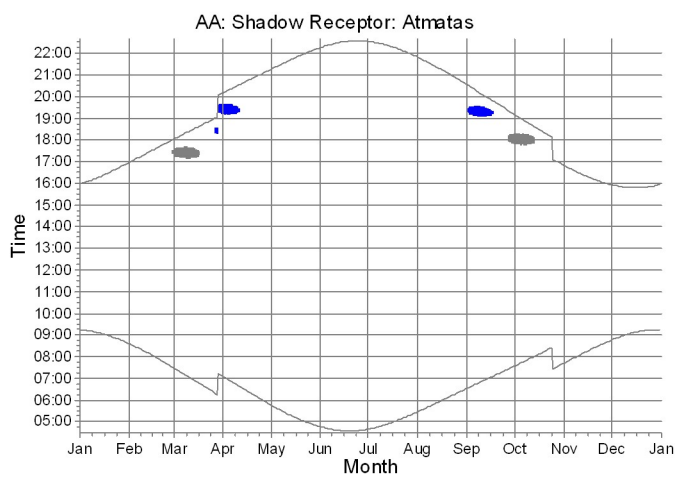
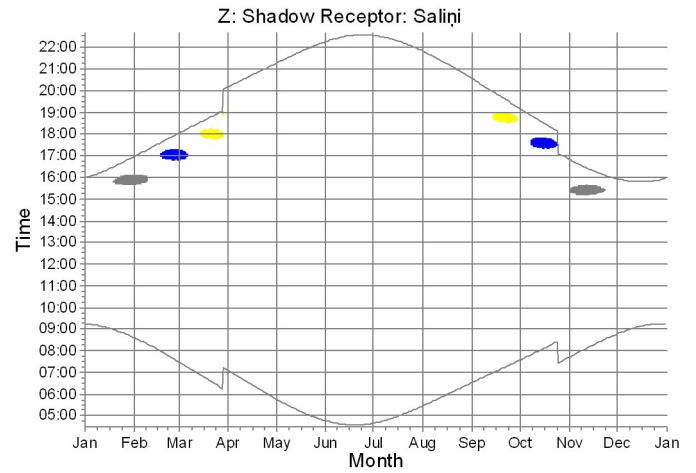
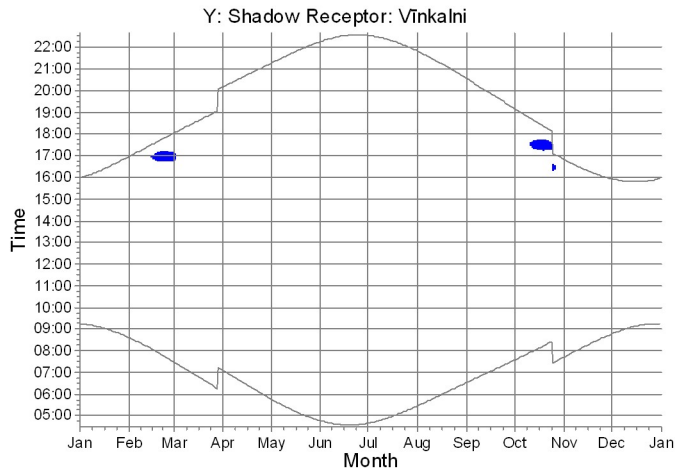
SHADOW - Calendar, graphical



WTGs

2: VES-2 (1.alternativa) 3: VES-3 (1.alternativa)

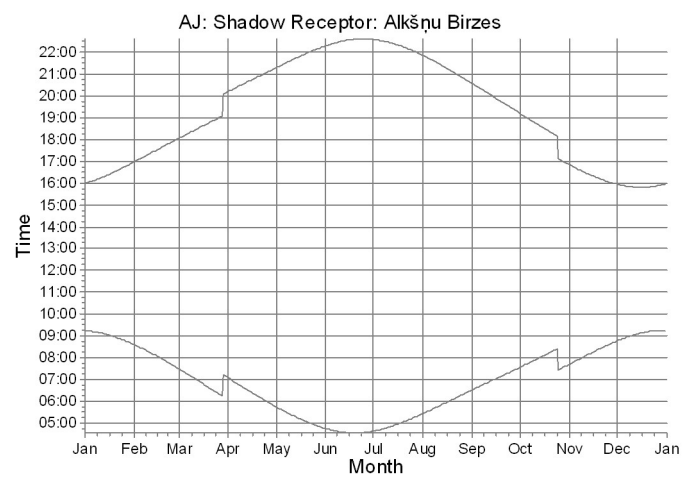
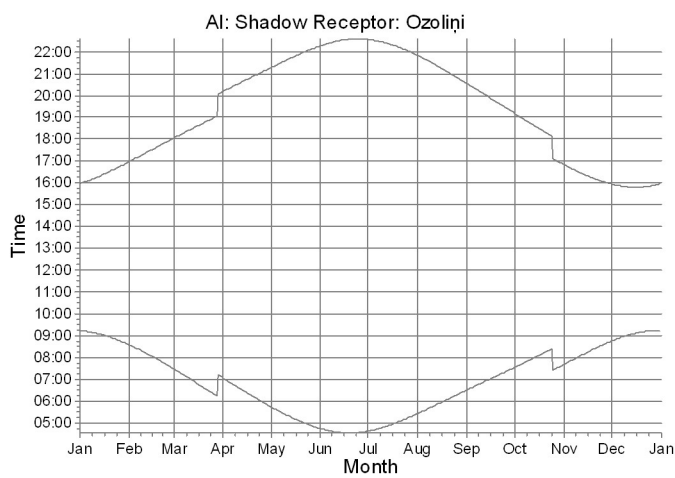
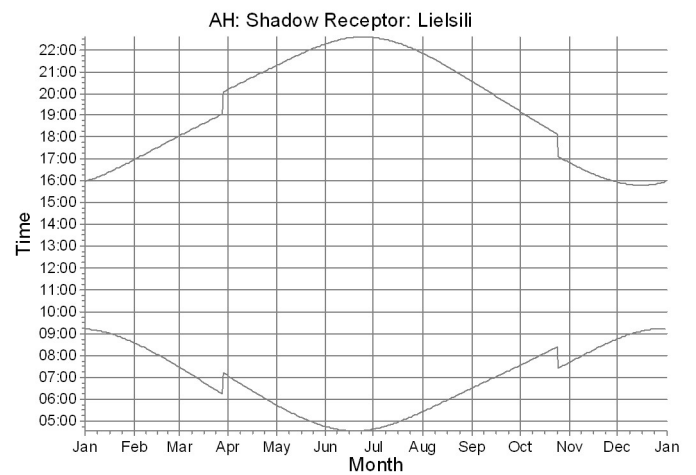
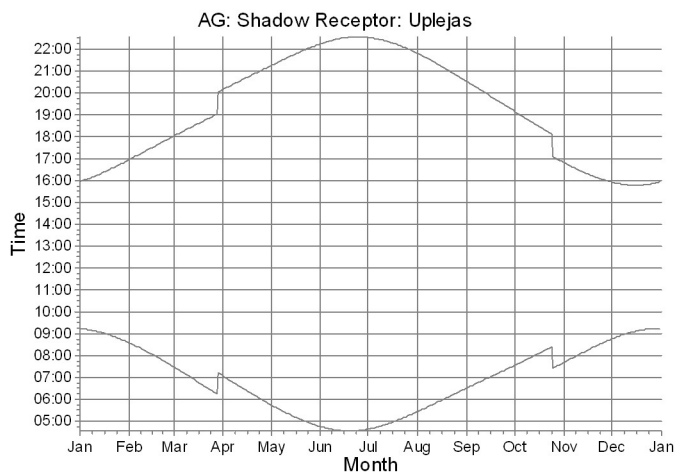
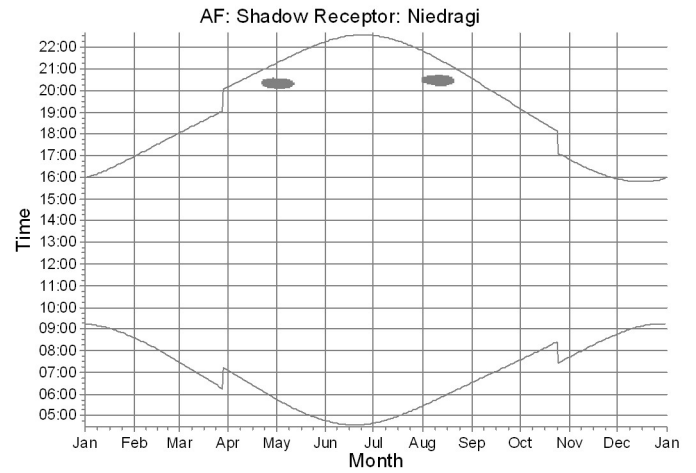
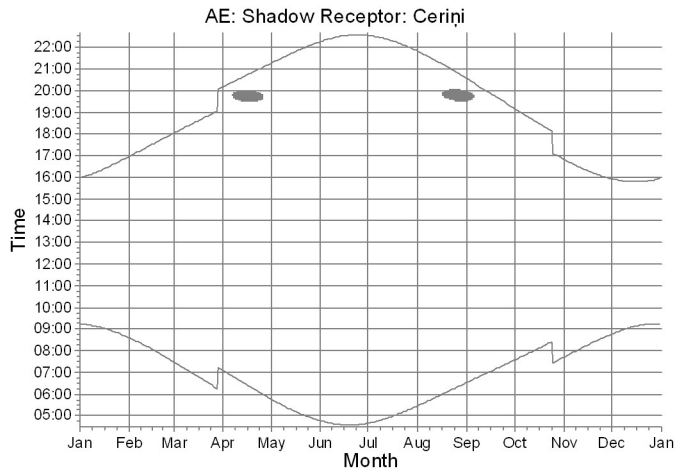
SHADOW - Calendar, graphical



WTGs



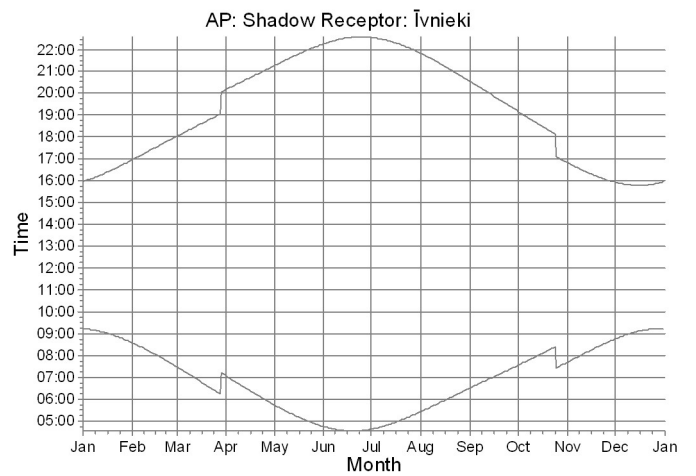
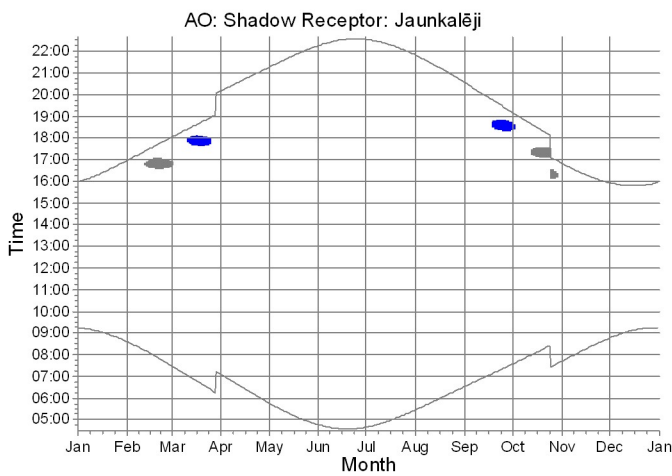
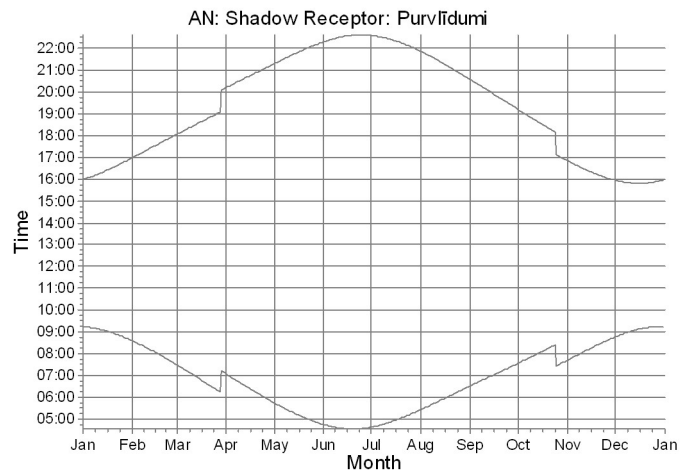
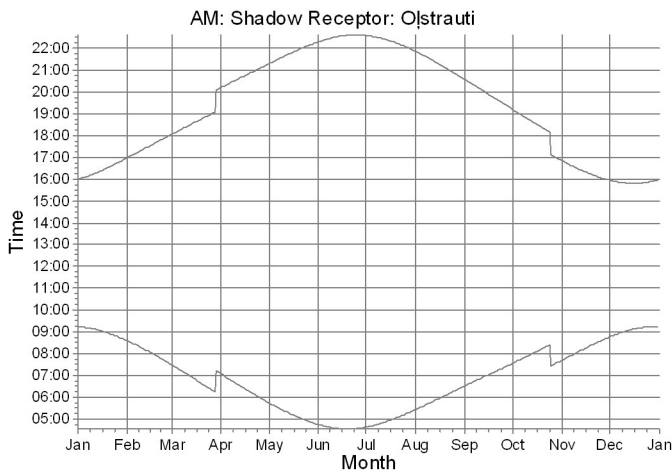
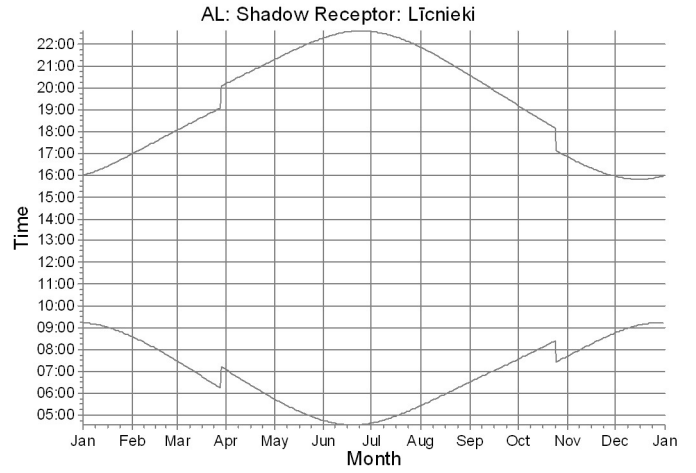
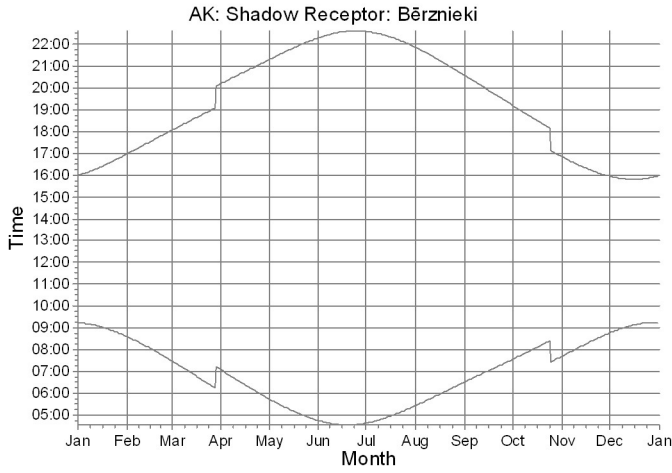
SHADOW - Calendar, graphical



WTGs

4: VES-4 (1.alternativa)

SHADOW - Calendar, graphical



WTGs

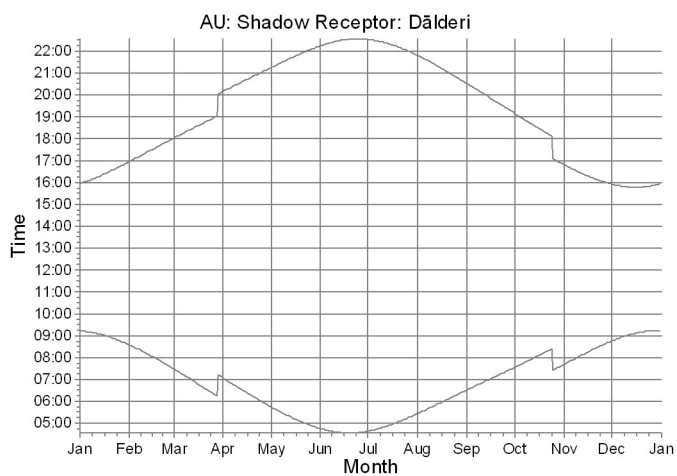
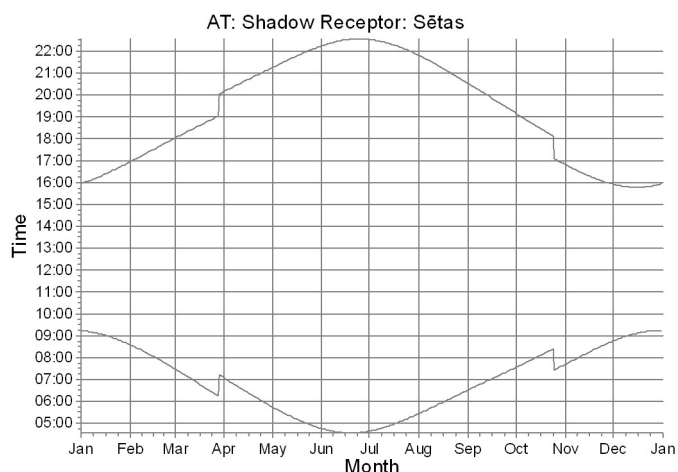
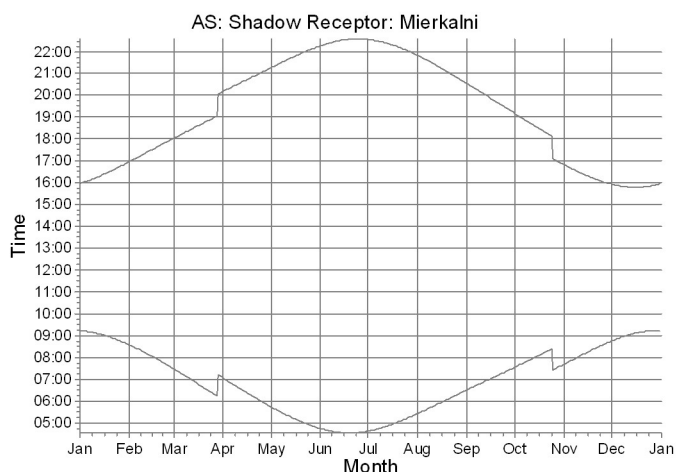
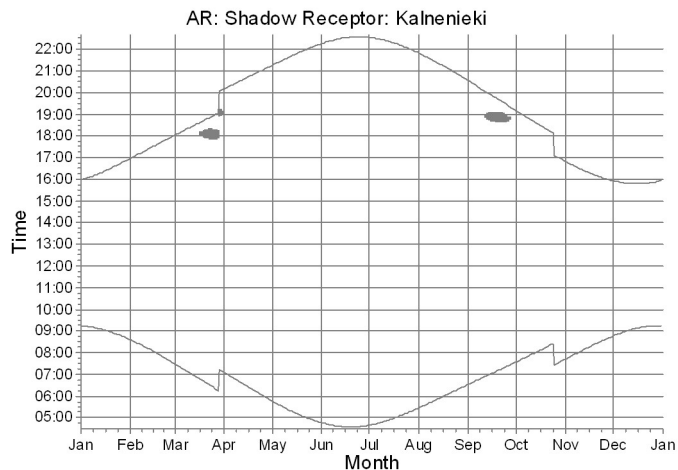
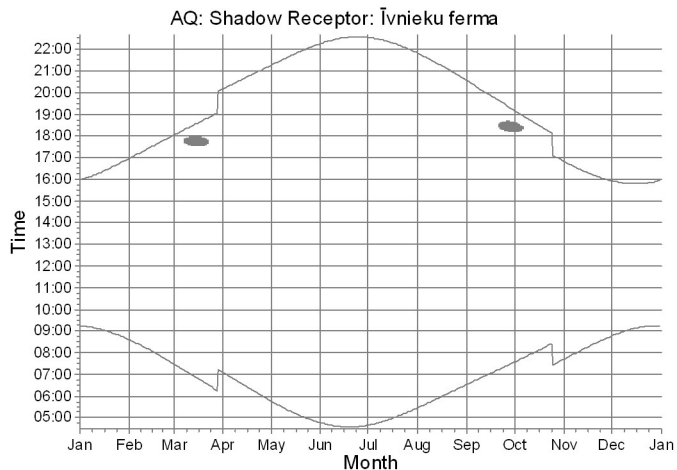


3: VES-3 (1.alternativa)



4: VES-4 (1.alternativa)

SHADOW - Calendar, graphical



WTGs

4: VES-4 (1.alternativa)

SHADOW - Calendar per WTG

WTG: 1 - VES-1 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14 11:23-11:38/15	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:33	05:27 21:50	06:32 20:33	07:35 19:10	07:43 16:50	08:47 15:56
2	09:14 11:23-11:37/14	08:34 17:00	07:27 18:05	07:02 20:13	05:43 21:18	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	07:45 16:47	08:49 15:55
3	09:13 11:25-11:37/12	08:32 17:03	07:24 18:07	06:59 20:15	05:41 21:20	04:44 22:19	04:41 22:32	05:31 21:45	06:36 20:27	07:39 19:04	07:47 16:45	08:50 15:54
4	09:13 11:26-11:37/11	08:30 17:05	07:21 18:10	06:56 20:17	05:38 21:23	04:42 22:21	04:42 22:32	05:34 21:43	06:38 20:25	07:41 19:02	07:49 16:43	08:52 15:53
5	09:13 11:28-11:35/7	08:27 17:07	07:19 18:12	06:53 20:20	05:36 21:25	04:41 22:22	04:43 22:31	05:36 21:41	06:40 20:22	07:43 18:59	07:52 16:40	08:54 15:52
6	09:12 11:31-11:33/2	08:25 17:10	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23	04:44 22:30	05:38 21:39	06:42 20:19	07:45 18:56	07:54 16:38	08:55 15:51
7	09:11 16:07	08:23 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:40 22:24	04:45 22:29	05:40 21:36	06:45 20:16	07:47 18:53	07:56 16:36	08:57 15:51
8	09:11 16:09	08:21 17:14	07:10 18:19	06:45 20:26	05:29 21:31	04:39 22:25	04:47 22:28	05:42 21:34	06:47 20:14	07:49 18:51	07:58 16:34	08:58 15:50
9	09:10 16:10	08:19 17:17	07:08 18:21	06:43 20:28	05:27 21:33	04:38 22:27	04:48 22:32	05:44 21:32	06:49 20:11	07:52 18:48	08:01 16:32	09:00 15:50
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	05:25 21:35	04:37 22:28	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 16:30	09:01 15:49
11	09:08 16:14	08:14 17:21	07:02 18:25	06:37 20:33	05:23 21:37	04:37 22:29	04:51 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 16:28	09:03 15:49
12	09:07 16:15	08:12 17:24	07:00 18:27	06:34 20:35	05:20 21:40	04:36 22:29	04:52 22:24	05:50 21:25	06:55 20:03	07:58 18:40	08:08 16:26	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:30	06:32 20:37	05:18 21:42	04:36 22:30	04:53 22:23	05:52 21:22	06:57 20:00	08:00 18:37	08:10 16:24	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	05:16 21:44	04:35 22:31	04:55 22:21	05:54 21:20	06:59 20:00	08:02 18:35	08:12 16:22	09:06 15:48
15	09:04 16:21	08:05 17:31	06:51 18:34	06:26 20:41	05:14 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	08:05 18:32	08:14 16:20	09:07 15:48
16	09:02 16:23	08:02 17:33	06:49 18:36	06:24 20:44	05:12 21:48	04:35 22:32	04:58 22:19	05:58 21:15	07:03 19:52	08:07 18:29	08:16 16:18	09:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	06:21 20:46	05:10 21:50	04:34 22:33	05:00 22:17	06:01 21:12	07:05 19:49	08:09 18:27	08:19 16:16	09:09 15:48
18	09:00 16:27	07:57 17:38	06:43 18:41	06:18 20:48	05:08 21:52	04:34 22:33	05:01 22:16	06:03 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	06:16 20:50	05:06 21:54	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	08:13 18:22	08:23 16:13	09:11 15:48
20	08:57 16:31	07:52 17:42	06:38 18:45	06:13 20:52	05:04 21:56	04:34 22:34	05:05 22:12	06:07 21:05	07:12 19:40	08:16 18:19	08:25 16:11	09:11 15:49
21	08:55 16:33	07:50 17:45	06:35 18:47	06:11 20:54	05:03 21:57	04:34 22:35	05:06 22:11	06:09 21:02	07:14 19:38	08:18 18:16	08:27 16:09	09:12 15:49
22	08:54 16:36	07:47 17:47	06:32 18:49	06:08 20:57	05:01 21:59	04:35 22:35	05:08 22:09	06:11 20:59	07:16 19:35	08:20 18:14	08:29 16:08	09:13 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	04:59 22:01	04:35 22:35	05:10 22:07	06:13 20:57	07:18 19:32	08:22 18:11	08:31 16:06	09:13 15:50
24	08:51 16:40	07:42 17:51	06:27 18:54	06:03 21:01	04:57 22:03	04:35 22:35	05:12 22:05	06:15 20:54	07:20 19:29	08:25 18:09	08:33 16:05	09:14 15:51
25	08:49 16:42	07:40 17:54	06:24 18:56	06:00 21:03	04:56 22:05	04:35 22:35	05:14 22:04	06:17 20:52	07:22 19:26	08:27 17:06	08:35 16:03	09:14 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	05:58 21:05	04:54 22:07	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	08:29 17:04	08:37 16:02	09:14 15:52
27	08:45 16:47	07:34 17:58	06:18 19:00	05:55 21:07	04:53 22:08	04:36 22:35	05:18 22:00	06:22 20:46	07:26 19:21	08:31 17:01	08:39 16:01	09:14 15:53
28	08:43 16:49	07:32 18:01	06:15 19:02	05:53 21:10	04:51 22:10	04:37 22:34	05:20 21:58	06:24 20:44	07:28 19:18	08:34 16:59	08:41 15:59	09:14 15:54
29	08:42 16:51		07:13 20:04	05:50 21:12	04:50 22:12	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	08:36 16:57	08:43 15:58	09:14 15:55
30	08:40 16:53		07:10 20:07	05:48 21:14	04:48 22:13	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:13	08:38 16:54	08:45 15:57	09:14 15:56
31	08:38 16:56		07:07 20:09		04:47 22:15		05:25 21:52	06:30 20:36		07:40 16:52		09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Sum of minutes with flicker	61	0	0	0	0	0	0	0	0	0	0	571

Table 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 - VES-2 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June
1	09:14 14:12-14:48/36 10:04-10:25/21 15:58 10:32-11:19/47	08:36 15:57-16:16/19 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16
2	09:14 14:12-14:48/36 10:03-10:26/23 16:00 10:32-11:19/47	08:34 15:55-16:17/22 17:00	07:26 18:05	07:02 20:13	05:43 21:18	04:45 22:18
3	09:13 14:13-14:49/36 10:04-10:27/23 16:01 10:33-11:19/46	08:32 15:55-16:18/23 17:03	07:24 18:07	06:59 20:15	05:41 21:20	04:43 22:19
4	09:13 14:13-14:49/36 10:04-10:27/23 16:02 10:33-11:19/46	08:29 15:55-16:19/24 17:05	07:21 18:10	06:56 20:17	05:38 21:23	04:42 22:21
5	09:13 14:14-14:49/35 10:04-10:28/24 16:04 10:34-11:19/45	08:27 15:53-16:20/27 17:07	07:19 18:12	06:53 20:20	05:36 21:25	04:41 22:22
6	09:12 14:14-14:50/36 10:04-10:29/25 16:05 10:34-11:18/44	08:25 15:53-16:21/28 17:10	07:16 18:14	06:51 20:22	05:34 21:27	04:40 22:23
7	09:11 14:15-14:50/35 10:04-10:29/25 16:07 10:34-11:18/44	08:23 15:52-16:21/29 17:12	07:13 18:16	06:48 20:24	05:31 21:29	04:40 22:24
8	09:11 14:16-14:50/34 10:04-10:30/26 16:08 10:35-11:18/43	08:21 15:53-16:21/28 17:14	07:10 17:47-17:49/2 18:19	06:45 20:26	05:29 21:31	04:39 22:25
9	09:10 14:17-14:51/34 10:05-10:31/26 16:10 10:35-11:17/42	08:19 15:53-16:22/29 17:17	07:08 17:42-17:51/9 18:21	06:43 20:28	05:27 21:33	04:38 22:27
10	09:09 14:18-14:51/33 10:36-11:06/30 16:12 11:09-11:16/7 10:05-10:32/27	08:16 16:37-16:45/8 17:19 15:53-16:22/29	07:05 17:40-17:54/14 18:23	06:40 20:30	05:25 21:35	04:37 22:28
11	09:08 14:19-14:52/33 10:05-10:33/28 16:14 10:37-11:07/30	08:14 16:35-16:48/13 17:21 15:53-16:22/29	07:02 17:38-17:56/18 18:25	06:37 20:33	05:22 21:37	04:37 22:29
12	09:07 14:19-14:51/32 10:05-10:33/28 16:15 10:37-11:06/29	08:12 16:33-16:50/17 17:24 15:53-16:21/28	07:00 17:37-17:58/21 18:27	06:34 20:35	05:20 21:40	04:36 22:29
13	09:06 14:21-14:52/31 10:06-10:33/27 16:17 10:38-11:07/29	08:09 16:32-16:52/20 17:26 15:54-16:21/27	06:57 17:36-17:59/23 18:30	06:32 20:37	05:18 21:42	04:36 22:30
14	09:05 14:22-14:51/29 10:05-10:33/28 16:19 10:38-11:06/28	08:07 16:31-16:53/22 17:28 15:54-16:20/26	06:54 17:35-17:59/24 18:32	06:29 20:39	05:16 21:44	04:35 22:31
15	09:04 14:24-14:52/28 10:06-10:34/28 16:21 10:39-11:07/28	08:05 16:30-16:53/23 17:31 15:55-16:19/24	06:51 17:34-18:05/31 18:34	06:26 20:41	05:14 21:46	04:35 22:32
16	09:02 14:26-14:51/25 10:06-10:34/28 16:23 10:39-11:07/28	08:02 16:31-16:54/23 17:33 15:56-16:19/23	06:49 17:34-18:07/33 18:36	06:24 20:44	05:12 21:48	04:35 22:32
17	09:01 14:30-14:52/22 10:07-10:35/28 16:25 10:41-11:07/26	08:00 16:30-16:54/24 17:35 15:57-16:17/20	06:46 17:34-18:10/36 18:38	06:21 20:46	05:10 21:50	04:34 22:33
18	09:00 14:31-14:51/20 10:07-10:35/28 16:27 10:41-11:06/25	07:57 16:30-16:54/24 17:38 15:59-16:16/17	06:43 17:34-18:12/38 18:41	06:18 20:48	05:08 21:52	04:34 22:33
19	08:58 14:32-14:50/18 10:07-10:35/28 16:29 10:42-11:06/24	07:55 16:30-16:54/24 17:40 16:02-16:13/11	06:40 17:35-18:12/37 18:43	06:16 20:50	05:06 21:54	04:34 22:34
20	08:57 14:33-14:49/16 10:08-10:35/27 16:31 10:43-11:05/22	07:52 16:30-16:53/23 17:42	06:38 17:35-18:12/37 18:45	06:13 20:52	05:04 21:56	04:34 22:34
21	08:55 14:36-14:49/13 10:09-10:36/27 16:33 10:45-11:05/20	07:50 16:31-16:53/22 17:44	06:35 17:37-18:13/36 18:47	06:11 20:54	05:03 21:57	04:34 22:35
22	08:54 14:38-14:47/9 10:09-10:36/27 16:35 10:47-11:04/17	07:47 16:32-16:52/20 17:47	06:32 17:38-18:12/34 18:49	06:08 20:57	05:01 21:59	04:35 22:35
23	08:52 10:49-11:03/14 16:38 10:10-10:36/26	07:45 16:32-16:50/18 17:49	06:29 17:48-18:12/24 18:51 17:42-17:47/5	06:05 20:59	04:59 22:01	04:35 22:35
24	08:50 10:51-11:00/9 16:40 10:11-10:36/25	07:42 16:34-16:49/15 17:51	06:27 17:48-18:11/23 18:54	06:03 21:01	04:57 22:03	04:35 22:35
25	08:49 10:12-10:35/23 16:42	07:40 16:36-16:47/11 17:54	06:24 17:48-18:10/22 18:56	06:00 21:03	04:56 22:05	04:35 22:35
26	08:47 10:13-10:35/22 16:44	07:37 17:56	06:21 17:49-18:09/20 18:58	05:58 21:05	04:54 22:07	04:36 22:35
27	08:45 10:14-10:34/20 16:46	07:34 17:58	06:18 17:50-18:07/17 19:00	05:55 21:07	04:53 22:08	04:36 22:35
28	08:43 10:16-10:33/17 16:49	07:32 18:01	06:15 17:52-18:05/13 19:02	05:53 21:10	04:51 22:10	04:37 22:34
29	08:42 16:04-16:06/2 16:51 10:17-10:31/14		07:13 18:54-19:01/7 20:04	05:50 21:12	04:50 22:12	04:38 22:34
30	08:40 16:00-16:11/11 16:53 10:20-10:28/8		07:10 20:07	05:48 21:14	04:48 22:13	04:38 22:34
31	08:38 15:58-16:14/16 16:56		07:07 20:09		04:47 22:15	
Potential sun hours	230	263	366	429	513	536
Sum of minutes with flicker	2156	770	524	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: 2 - VES-2 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	July	August	September	October	November	December
1	04:39 22:33	05:27 21:50	06:32 20:33	07:35 18:16-18:38/22 19:10	07:43 16:07-16:14/7 16:50 15:22-15:51/29	08:47 14:01-14:34/33 09:48-10:15/27 15:56 10:19-10:49/30
2	04:40 22:33	05:29 21:47	06:34 20:30	07:37 18:16-18:36/20 19:07	07:45 15:22-15:51/29 16:47	08:49 14:01-14:34/33 10:19-10:49/30 15:55 10:52-10:59/7 09:48-10:15/27
3	04:41 22:32	05:31 21:45	06:36 20:27	07:39 18:17-18:33/16 19:04	07:47 15:22-15:51/29 16:45	08:50 14:01-14:35/34 10:20-10:50/30 15:54 10:51-11:01/10 09:49-10:15/26
4	04:42 22:32	05:33 21:43	06:38 20:25	07:41 18:18-18:30/12 19:02	07:49 15:23-15:51/28 16:43	08:52 14:00-14:34/34 09:49-10:15/26 15:53 10:20-11:03/43
5	04:43 22:31	05:36 21:41	06:40 20:22	07:43 18:20-18:27/7 18:59	07:52 15:23-15:50/27 16:40	08:54 14:00-14:35/35 09:49-10:14/25 15:52 10:19-11:03/44
6	04:44 22:30	05:38 21:39	06:42 20:19	07:45 18:56	07:54 15:24-15:50/26 16:38	08:55 14:01-14:36/35 09:50-10:15/25 15:51 10:20-11:05/45
7	04:45 22:29	05:40 21:36	06:45 20:16	07:47 18:53	07:56 15:24-15:49/25 16:36	08:57 14:01-14:36/35 09:51-10:15/24 15:51 10:21-11:06/45
8	04:47 22:28	05:42 21:34	06:47 20:14	07:49 18:51	07:58 15:26-15:49/23 16:34	08:58 14:02-14:37/35 09:52-10:16/24 15:50 10:21-11:07/46
9	04:48 22:27	05:44 21:32	06:49 20:11	07:52 18:48	08:01 15:26-15:47/21 16:32	09:00 14:01-14:37/36 09:52-10:15/23 15:50 10:21-11:07/46
10	04:49 22:26	05:46 21:29	06:51 20:08	07:54 18:45	08:03 15:28-15:47/19 16:30	09:01 14:02-14:38/36 09:54-10:16/22 15:49 10:22-11:09/47
11	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	08:05 15:29-15:45/16 16:28	09:03 14:02-14:38/36 09:54-10:15/21 15:49 10:22-11:09/47
12	04:52 22:24	05:50 21:25	06:55 20:03	07:58 18:40	08:07 15:32-15:43/11 16:26	09:04 14:03-14:39/36 09:55-10:16/21 15:48 10:23-11:10/47
13	04:53 22:23	05:52 21:22	06:57 20:00	08:00 18:37	08:10 09:49-10:03/14 16:24	09:05 14:03-14:39/36 09:56-10:16/20 15:48 10:23-11:11/48
14	04:55 22:21	05:54 21:20	06:59 18:46-18:51/5 19:57	08:02 18:35	08:12 09:48-10:05/17 16:22	09:06 14:03-14:39/36 09:56-10:16/20 15:48 10:24-11:11/47
15	04:56 22:20	05:56 21:17	07:01 18:41-18:54/13 19:54	08:05 18:32	08:14 09:46-10:06/20 16:20	09:07 14:03-14:39/36 09:57-10:16/19 15:48 10:24-11:11/47
16	04:58 22:19	05:58 21:15	07:03 18:39-18:56/17 19:52	08:07 17:11-17:16/5 18:29	08:16 09:46-10:08/22 16:18	09:08 14:04-14:40/36 09:57-10:16/19 15:48 10:25-11:12/47
17	05:00 22:17	06:01 21:12	07:05 18:37-18:56/19 19:49	08:09 17:07-17:20/13 18:27	08:19 09:45-10:08/23 16:16	09:09 14:04-14:40/36 09:58-10:16/18 15:48 10:25-11:13/48
18	05:01 22:16	06:03 21:10	07:07 18:36-18:57/21 19:46	08:11 17:05-17:21/16 18:24	08:21 10:25-10:34/9 16:14	09:10 14:05-14:41/36 09:59-10:17/18 15:48 10:26-11:13/47
19	05:03 22:14	06:05 21:07	07:09 18:36-18:58/22 19:43	08:13 17:03-17:22/19 18:22	08:23 10:23-10:37/14 16:13	09:11 14:06-14:41/35 10:00-10:17/17 15:48 10:26-11:14/48
20	05:05 22:12	06:07 21:05	07:12 18:35-18:58/23 19:40	08:16 17:02-17:23/21 18:19	08:25 14:13-14:22/9 09:44-10:11/27 16:11	09:11 14:05-14:41/36 10:01-10:18/17 15:49 10:26-11:15/49
21	05:06 22:11	06:09 21:02	07:14 18:25-18:58/33 19:38	08:18 17:01-17:23/22 18:16	08:27 14:11-14:24/13 09:44-10:11/27 16:09	09:12 14:06-14:42/36 10:01-10:18/17 15:49 10:27-11:15/48
22	05:08 22:09	06:11 20:59	07:16 18:22-18:58/36 19:35	08:20 17:00-17:23/23 18:14	08:29 14:09-14:25/16 09:45-10:12/27 16:08	09:13 14:07-14:42/35 10:02-10:19/17 15:49 10:28-11:16/48
23	05:10 22:07	06:13 20:57	07:18 18:20-18:57/37 19:32	08:22 17:00-17:24/24 18:11	08:31 14:09-14:27/18 09:44-10:12/28 16:06	09:13 14:07-14:43/36 10:02-10:19/17 15:50 10:28-11:16/48
24	05:12 22:05	06:15 20:54	07:20 18:19-18:56/37 19:29	08:25 17:00-17:24/24 18:09	08:33 14:08-14:28/20 09:44-10:12/28 16:05	09:14 14:07-14:43/36 10:02-10:19/17 15:51 10:28-11:16/48
25	05:14 22:04	06:17 20:52	07:22 18:17-18:55/38 19:26	07:27 16:00-16:24/24 17:06	08:35 14:07-14:29/22 09:45-10:14/29 16:03	09:14 14:08-14:44/36 10:02-10:20/18 15:51 10:29-11:16/47
26	05:16 22:02	06:19 20:49	07:24 18:16-18:52/36 19:24	07:29 16:00-16:23/23 17:04	08:37 14:05-14:30/25 09:45-10:14/29 16:02	09:14 14:08-14:44/36 10:03-10:21/18 15:52 10:30-11:18/48
27	05:18 22:00	06:22 20:46	07:26 18:16-18:50/34 19:21	07:31 16:01-16:23/22 17:01	08:39 14:03-14:31/28 09:45-10:14/29 16:01	09:14 14:09-14:44/35 10:03-10:22/19 15:53 10:30-11:18/48
28	05:20 21:58	06:24 20:44	07:28 18:15-18:47/32 19:18	07:34 16:01-16:22/21 16:59	08:41 14:02-14:31/29 09:45-10:14/29 15:59	09:14 14:09-14:45/36 10:03-10:22/19 15:54 10:30-11:17/47
29	05:21 21:56	06:26 20:41	07:30 18:15-18:44/29 19:15	07:36 16:01-16:21/20 16:57	08:43 14:01-14:32/31 09:46-10:14/28 15:58	09:14 14:10-14:46/36 10:03-10:23/20 15:55 10:31-11:18/47
30	05:23 21:54	06:28 20:38	07:32 18:16-18:39/23 19:13	07:38 16:03-16:19/16 16:54	08:45 14:01-14:32/31 09:47-10:15/28 15:57	09:14 14:11-14:47/36 10:03-10:24/21 15:56 10:31-11:18/47
31	05:25 21:52	06:30 20:36		07:40 16:04-16:16/12 16:52		09:14 14:12-14:47/35 10:04-10:25/21 15:57 10:32-11:19/47
Potential sun hours	536	473	385	322	243	209
Sum of minutes with flicker	0	0	455	597	1296	3162

Table 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

Project:

Sarce 1. alternativa

Licensed user:

Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
Peteris Blumats / info@enviro.lv
Calculated:
29/09/2021 15:41/3.4.424

SHADOW - Calendar per WTG

WTG: 3 - VES-3 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June
1	09:14 14:38-15:01/23 15:58	08:36 16:58	07:29 16:49-17:14/25 18:03	07:04 19:14-19:38/24 20:11	05:45 19:59-20:21/22 21:16	04:46 22:16
2	09:14 14:38-15:01/23 16:00	08:34 17:00	07:26 16:51-17:13/22 18:05	07:02 19:13-19:38/25 20:13	05:43 20:00-20:20/20 21:18	04:45 22:18
3	09:13 14:39-15:03/24 16:01	08:32 17:03	07:24 16:52-17:12/20 18:07	06:59 19:14-19:38/24 20:15	05:41 20:01-20:19/18 21:20	04:44 22:19
4	09:13 14:39-15:03/24 16:02	08:29 17:05	07:21 16:53-17:10/17 18:10	06:56 19:13-19:38/25 20:17	05:38 20:02-20:17/15 21:23	04:42 22:20
5	09:12 14:39-15:03/24 16:04	08:27 17:07	07:18 16:55-17:08/13 18:12	06:53 19:13-19:37/24 20:20	05:36 20:03-20:16/13 21:25	04:41 22:22
6	09:12 14:39-15:04/25 16:05	08:25 17:10	07:16 16:59-17:03/4 18:14	06:51 19:14-19:37/23 20:22	05:34 20:06-20:13/7 21:27	04:40 22:23
7	09:11 14:39-15:05/26 16:07	08:23 17:12	07:13 18:16	06:48 19:14-19:35/21 20:24	05:31 21:29 21:29	04:40 22:24
8	09:10 14:40-15:05/25 16:08	08:21 17:14	07:10 18:19	06:45 19:14-19:34/20 20:26	05:29 21:31 21:31	04:39 22:25
9	09:10 14:40-15:06/26 16:10	08:19 17:17	07:08 18:21	06:43 19:15-19:32/17 20:28	05:27 21:33 21:33	04:38 22:27
10	09:09 14:41-15:06/25 16:12	08:16 17:19	07:05 18:23	06:40 19:18-19:30/12 20:30	05:25 21:35 21:35	04:37 22:28
11	09:08 14:41-15:07/26 16:14	08:14 17:21	07:02 17:49-17:56/7 18:25	06:37 19:21-19:26/5 20:33	05:22 21:37 21:37	04:37 22:29
12	09:07 14:41-15:07/26 16:15	08:12 16:42-16:50/8 17:24	07:00 17:47-17:59/12 18:27	06:34 20:35 20:35	05:20 21:40 21:40	04:36 22:29
13	09:06 14:42-15:08/26 16:17	08:09 16:40-16:53/13 17:26	06:57 17:45-18:01/16 18:30	06:32 20:37 20:37	05:18 21:42 21:42	04:36 22:30
14	09:05 14:42-15:07/25 16:19	08:07 16:39-16:56/17 17:28	06:54 17:43-18:03/20 18:32	06:29 20:39 20:39	05:16 21:44 21:44	04:35 22:31
15	09:04 14:43-15:08/25 16:21	08:05 16:37-16:58/21 17:31	06:51 17:42-18:04/22 18:34	06:26 20:41 20:41	05:14 21:46 21:46	04:35 22:32
16	09:02 14:43-15:08/25 16:23	08:02 16:37-17:01/24 17:33	06:49 17:41-18:04/23 18:36	06:24 20:43 20:43	05:12 21:48 21:48	04:35 22:32
17	09:01 14:44-15:09/25 16:25	08:00 16:36-17:03/27 17:35	06:46 17:41-18:05/24 18:38	06:21 20:46 20:46	05:10 21:50 21:50	04:34 22:33
18	09:00 14:45-15:08/23 16:27	07:57 16:36-17:06/30 17:38	06:43 17:40-18:04/24 18:41	06:18 20:48 20:48	05:08 21:52 21:52	04:34 22:33
19	08:58 14:45-15:08/23 16:29	07:55 16:35-17:08/33 17:40	06:40 17:40-18:04/24 18:43	06:16 20:50 20:50	05:06 21:54 21:54	04:34 22:34
20	08:57 14:46-15:08/22 16:31	07:52 16:35-17:10/35 17:42	06:38 17:40-18:03/23 18:45	06:13 20:52 20:52	05:04 21:55 21:55	04:34 22:34
21	08:55 14:47-15:08/21 16:33	07:50 16:36-17:14/38 17:44	06:35 17:40-18:02/22 18:47	06:11 20:54 20:54	05:03 21:57 21:57	04:34 22:34
22	08:54 14:48-15:08/20 16:35	07:47 16:36-17:14/38 17:47	06:32 17:41-18:02/21 18:49	06:08 20:57 20:57	05:01 21:59 21:59	04:35 22:35
23	08:52 14:50-15:07/17 16:38	07:45 16:36-17:14/38 17:49	06:29 17:41-18:00/19 18:51	06:05 20:59 20:59	04:59 22:01 22:01	04:35 22:35
24	08:50 14:51-15:06/15 16:40	07:42 16:37-17:15/38 17:51	06:27 17:43-17:58/15 18:54	06:03 21:01 21:01	04:57 22:03 22:03	04:35 22:35
25	08:49 14:53-15:04/11 16:42	07:40 16:38-17:15/37 17:54	06:24 17:45-17:55/10 18:56	06:00 21:03 21:03	04:56 22:05 22:05	04:35 22:35
26	08:47 14:58-15:01/3 16:44	07:37 16:39-17:15/36 17:56	06:21 18:58 18:58	05:58 21:05 21:05	04:54 22:06 22:06	04:36 22:35
27	08:45 16:46	07:34 16:41-17:15/34 17:58	06:18 18:23-18:31/8 19:00	05:55 21:07 21:07	04:53 22:08 22:08	04:36 22:35
28	08:43 16:49	07:32 16:46-17:15/29 18:01	06:15 18:20-18:33/13 19:02	05:53 21:10 21:10	04:51 22:10 22:10	04:37 22:34
29	08:42 16:51		07:13 19:18-19:35/17 20:04	05:50 21:12 21:12	04:50 22:12 22:12	04:38 22:34
30	08:40 16:53		07:10 19:17-19:38/21 20:07	05:48 21:14 21:14	04:48 22:13 22:13	04:38 22:34
31	08:38 16:56		07:07 19:15-19:38/23 20:09		04:47 22:15 22:15	
Potential sun hours	230	263	366	428	513	536
Sum of minutes with flicker	578	496	465	492	95	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: 3 - VES-3 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

0	1	Sum
3,899	3,899	7,798

	July	August	September	October	November	December
1	04:39 22:33	05:27 21:50	06:32 19:20-19:25/5 20:33	07:35 18:25-18:39/14 19:10	07:43 16:50	08:47 14:23-14:49/26 15:56
2	04:40 22:33	05:29 21:47	06:34 19:16-19:28/12 20:30	07:37 18:27-18:36/9 19:07	07:45 16:47	08:49 14:24-14:50/26 15:55
3	04:41 22:32	05:31 21:45	06:36 19:13-19:30/17 20:27	07:39 19:04	07:47 16:45	08:50 14:24-14:50/26 15:54
4	04:42 22:32	05:33 21:43	06:38 19:11-19:31/20 20:25	07:41 19:02	07:49 16:43	08:52 14:24-14:49/25 15:53
5	04:43 22:31	05:36 21:41	06:40 19:10-19:31/21 20:22	07:43 18:59	07:52 16:40	08:54 14:25-14:50/25 15:52
6	04:44 22:30	05:38 21:39	06:42 19:09-19:32/23 20:19	07:45 18:56	07:54 16:38	08:55 14:25-14:50/25 15:51
7	04:45 22:29	05:40 20:14-20:23/9 21:36	06:45 19:08-19:32/24 20:16	07:47 18:53	07:56 16:36	08:57 14:26-14:51/25 15:51
8	04:47 22:28	05:42 20:12-20:26/14 21:34	06:47 19:07-19:32/25 20:14	07:49 17:32-17:41/9 18:51	07:58 16:34	08:58 14:26-14:50/24 15:50
9	04:48 22:27	05:44 20:10-20:27/17 21:32	06:49 19:07-19:32/25 20:11	07:52 17:29-17:44/15 18:48	08:01 16:32	09:00 14:27-14:51/24 15:50
10	04:49 22:26	05:46 20:09-20:28/19 21:29	06:51 19:07-19:31/24 20:08	07:54 17:27-17:45/18 18:45	08:03 16:30	09:01 14:28-14:52/24 15:49
11	04:51 22:25	05:48 20:08-20:29/21 21:27	06:53 19:07-19:30/23 20:05	07:56 17:26-17:47/21 18:43	08:05 16:28	09:02 14:28-14:51/23 15:49
12	04:52 22:24	05:50 20:07-20:30/23 21:24	06:55 19:07-19:30/23 20:03	07:58 17:24-17:47/23 18:40	08:07 16:26	09:04 14:28-14:51/23 15:48
13	04:53 22:23	05:52 20:07-20:30/23 21:22	06:57 19:07-19:28/21 20:00	08:00 17:22-17:47/25 18:37	08:10 16:24	09:05 14:30-14:52/22 15:48
14	04:55 22:21	05:54 20:06-20:30/24 21:20	06:59 19:08-19:26/18 19:57	08:02 17:16-17:48/32 18:35	08:12 16:22	09:06 14:30-14:52/22 15:48
15	04:56 22:20	05:56 20:06-20:30/24 21:17	07:01 19:09-19:23/14 19:54	08:05 17:12-17:48/36 18:32	08:14 16:20	09:07 14:31-14:53/22 15:48
16	04:58 22:19	05:58 20:06-20:30/24 21:15	07:03 19:10-19:20/10 19:51	08:07 17:10-17:47/37 18:29	08:16 14:30-14:34/4 16:18	09:08 14:31-14:53/22 15:48
17	05:00 22:17	06:01 20:06-20:30/24 21:12	07:05 19:15-19:17/2 19:49	08:09 17:09-17:47/38 18:27	08:19 14:26-14:37/11 16:16	09:09 14:32-14:53/21 15:48
18	05:01 22:16	06:03 20:06-20:30/24 21:10	07:07 18:33-18:42/9 19:46	08:11 17:08-17:46/38 18:24	08:21 14:25-14:40/15 16:14	09:10 14:32-14:54/22 15:48
19	05:03 22:14	06:05 20:06-20:29/23 21:07	07:09 18:31-18:45/14 19:43	08:13 17:07-17:45/38 18:22	08:23 14:24-14:41/17 16:13	09:11 14:33-14:54/21 15:48
20	05:05 22:12	06:07 20:06-20:29/23 21:05	07:12 18:28-18:46/18 19:40	08:16 17:07-17:45/38 18:19	08:25 14:23-14:43/20 16:11	09:11 14:33-14:54/21 15:49
21	05:06 22:11	06:09 20:07-20:28/21 21:02	07:14 18:27-18:47/20 19:38	08:18 17:06-17:43/37 18:16	08:27 14:22-14:43/21 16:09	09:12 14:34-14:55/21 15:49
22	05:08 22:09	06:11 20:07-20:27/20 20:59	07:16 18:25-18:47/22 19:35	08:20 17:05-17:40/35 18:14	08:29 14:22-14:44/22 16:08	09:13 14:34-14:55/21 15:49
23	05:10 22:07	06:13 20:08-20:25/17 20:57	07:18 18:24-18:48/24 19:32	08:22 17:06-17:38/32 18:11	08:31 14:22-14:45/23 16:06	09:13 14:35-14:56/21 15:50
24	05:12 22:05	06:15 20:10-20:23/13 20:54	07:20 18:24-18:47/23 19:29	08:25 17:06-17:35/29 18:09	08:33 14:22-14:45/23 16:05	09:14 14:35-14:56/21 15:51
25	05:14 22:04	06:17 20:12-20:19/7 20:52	07:22 18:23-18:47/24 19:26	07:27 16:06-16:33/27 17:06	08:35 14:21-14:46/25 16:03	09:14 14:35-14:57/22 15:51
26	05:16 22:02	06:19 20:49	07:24 18:23-18:47/24 19:24	07:29 16:07-16:30/23 17:04	08:37 14:22-14:47/25 16:02	09:14 14:36-14:57/21 15:52
27	05:18 22:00	06:22 20:46	07:26 18:22-18:46/24 19:21	07:31 16:08-16:28/20 17:01	08:39 14:22-14:47/25 16:01	09:14 14:36-14:58/22 15:53
28	05:20 21:58	06:24 20:44	07:28 18:22-18:45/23 19:18	07:34 16:09-16:25/16 16:59	08:41 14:22-14:47/25 15:59	09:14 14:36-14:58/22 15:54
29	05:21 21:56	06:26 20:41	07:30 18:23-18:44/21 19:15	07:36 16:10-16:21/11 16:57	08:43 14:22-14:48/26 15:58	09:14 14:37-14:59/22 15:55
30	05:23 21:54	06:28 20:38	07:32 18:24-18:42/18 19:13	07:38 16:12-16:19/7 16:54	08:45 14:22-14:48/26 15:57	09:14 14:37-15:00/23 15:56
31	05:25 21:52	06:30 20:35		07:40 16:52		09:14 14:37-15:00/23 15:57
Potential sun hours	536	473	385	322	243	210
Sum of minutes with flicker	0	370	571	628	308	708

Table 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 - VES-4 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time		
0	1	Sum
3,899	3,899	7,798

	January	February	March	April	May	June
1	09:14 15:58	08:36 15:41-16:05/24	07:29 16:46-16:51/5	07:04 19:00-19:28/28	05:45 20:07-20:32/25	04:46 22:16
2	09:14 16:00	08:34 15:42-16:06/24	07:26 17:17-17:35/18	07:02 18:59-19:28/29	05:43 20:08-20:32/24	04:45 22:18
3	09:13 16:01	08:32 15:43-16:06/23	07:24 17:16-17:37/21	06:59 18:59-19:28/29	05:41 20:08-20:32/24	04:44 22:19
4	09:13 16:02	08:29 15:44-16:06/22	07:21 17:15-17:38/23	06:56 19:34-19:43/9	05:38 20:07-20:31/24	04:42 22:20
5	09:12 16:04	08:27 15:44-16:05/21	07:18 17:14-17:38/24	06:53 19:30-19:46/16	05:36 20:08-20:31/23	04:41 22:22
6	09:12 16:05	08:25 15:45-16:04/19	07:16 17:12-17:38/26	06:51 19:29-19:49/20	05:34 20:08-20:30/22	04:40 22:23
7	09:11 16:07	08:23 15:46-16:02/16	07:13 17:12-17:38/26	06:48 19:27-19:50/23	05:31 20:09-20:30/21	04:40 22:24
8	09:10 16:08	08:21 15:49-16:01/12	07:10 17:42-17:49/7	06:45 19:25-19:54/29	05:29 20:10-20:29/19	04:39 22:25
9	09:10 16:10	08:19 15:51-15:58/7	07:08 17:11-17:52/41	06:43 19:24-19:55/31	05:27 20:11-20:28/17	04:38 22:26
10	09:09 16:12	08:16 17:19	07:05 17:11-17:54/43	06:40 19:24-19:57/33	05:25 20:12-20:26/14	04:37 22:27
11	09:08 16:14	08:14 17:21	07:02 17:11-17:56/45	06:37 19:22-19:58/36	05:23 20:14-20:25/11	04:37 22:28
12	09:07 16:15	08:12 16:48-16:50/2	07:00 17:12-17:58/46	06:34 19:23-19:59/36	05:20 20:17-20:21/4	04:36 22:29
13	09:06 16:17	08:09 16:43-16:53/10	06:57 17:12-17:58/46	06:32 19:22-19:59/37	05:18 21:39	04:36 22:30
14	09:05 16:19	08:07 16:42-16:56/14	06:54 17:13-17:58/45	06:29 19:21-19:59/38	05:16 21:44	04:35 22:31
15	09:04 16:21	08:05 16:40-16:58/18	06:51 17:33-17:57/24	06:26 19:22-20:00/38	05:14 21:46	04:35 22:32
16	09:02 16:23	08:02 16:39-17:00/21	06:49 17:33-17:57/24	06:24 19:22-19:59/37	05:12 21:48	04:35 22:32
17	09:01 16:25	08:00 16:38-17:01/23	06:46 18:03-18:10/7 17:20-17:26/6	06:21 19:22-19:59/37	05:10 21:50	04:34 22:33
18	09:00 16:27	07:57 16:38-17:02/24	06:43 18:00-18:12/12	06:18 19:22-19:58/36	05:08 21:52	04:34 22:33
19	08:58 15:48-15:49/1	07:55 16:37-17:02/25	06:40 17:58-18:14/16	06:16 19:24-19:58/34	05:06 21:54	04:34 22:34
20	08:57 15:46-15:51/5	07:52 16:37-17:02/25	06:38 17:56-18:16/20	06:13 19:24-19:57/33	05:04 21:55	04:34 22:34
21	08:55 15:44-15:53/9	07:50 16:37-17:02/25	06:35 17:55-18:17/22	06:11 19:26-19:56/30	05:03 21:57	04:34 22:34
22	08:54 15:44-15:57/13	07:47 16:37-17:02/25	06:32 17:55-18:18/23	06:08 20:20-20:23/3	05:01 21:59	04:35 22:35
23	08:52 15:43-15:59/16	07:45 16:37-17:01/24	06:29 17:54-18:18/24	06:05 20:16-20:27/11	04:59 22:01	04:35 22:35
24	08:50 15:43-16:02/19	07:42 16:38-17:01/23	06:27 17:54-18:18/24	06:03 20:13-20:29/16	04:57 22:03	04:35 22:35
25	08:49 15:42-16:03/21	07:40 16:38-17:00/22	06:24 17:53-18:21/28	06:00 20:12-20:30/18	04:56 22:05	04:35 22:35
26	08:47 15:42-16:04/22	07:37 16:39-16:59/20	06:21 17:54-18:25/31	05:58 20:11-20:32/21	04:54 22:06	04:36 22:35
27	08:45 15:41-16:04/23	07:34 16:40-16:57/17	06:18 17:54-18:26/32	05:55 20:09-20:31/22	04:53 22:07	04:36 22:35
28	08:43 15:41-16:05/24	07:32 16:42-16:55/13	06:15 17:55-18:27/32	05:53 20:09-20:32/23	04:51 22:10	04:37 22:34
29	08:41 15:41-16:05/24	18:01 17:25-17:29/4	19:02	21:10	22:10	04:38 22:34
30	08:40 15:41-16:06/25		07:13 18:55-19:27/32	05:50 20:09-20:33/24	04:50 22:11	04:38 22:34
31	08:38 15:42-16:06/24		20:04	21:12	22:11	04:38 22:34
	Potential sun hours 230	263	366	428	513	536
	Sum of minutes with flicker 226	503	1012	1079	228	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 - VES-4 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.16	2.12	4.45	6.25	9.03	9.67	9.68	8.42	5.40	2.84	1.20	0.65

Operational time

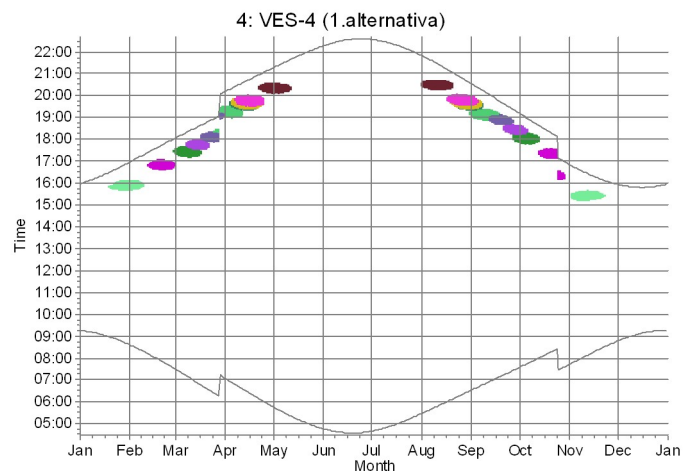
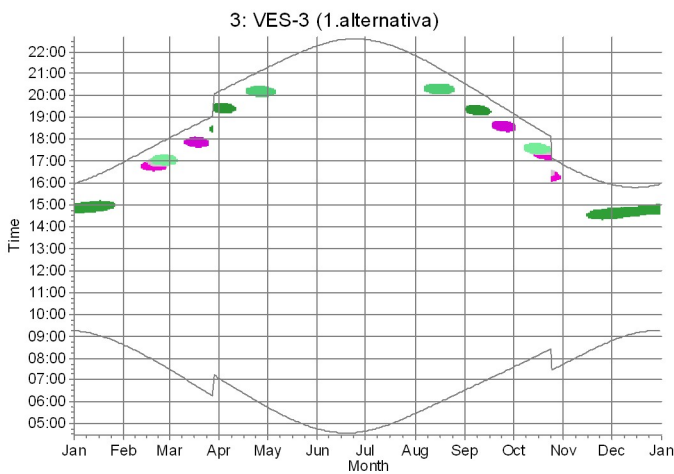
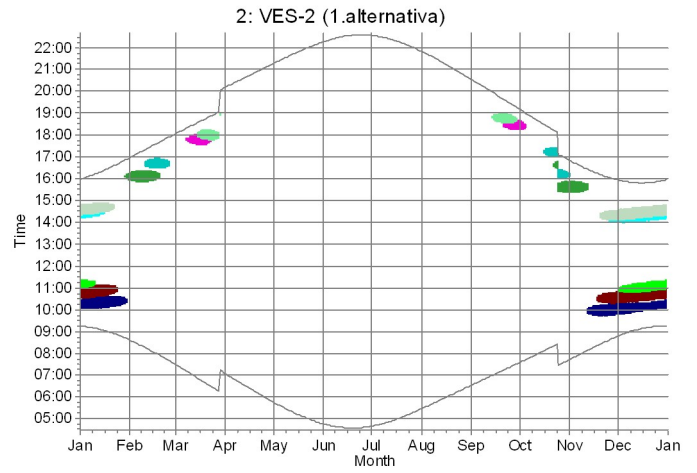
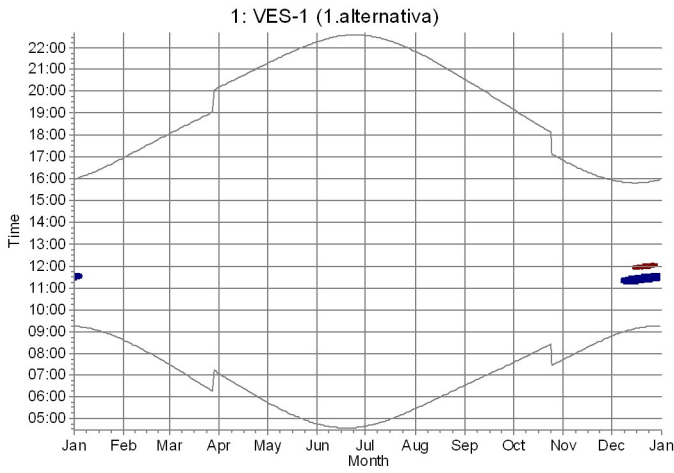
0	1	Sum
3,899	3,899	7,798

	July	August	September	October	November	December
1	04:39 22:33	05:27 20:26-20:33/7 21:50	06:32 19:21-19:57/36 20:33 19:03-19:17/14	07:35 17:51-18:37/46 19:10	07:43 16:50	08:47 15:56
2	04:40 22:33	05:29 20:23-20:36/13 21:47	06:34 19:21-19:55/34 20:30 19:00-19:19/19	07:37 17:50-18:36/46 19:07	07:45 15:20-15:28/8 16:47	08:49 15:55
3	04:41 22:32	05:31 20:22-20:37/15 21:45	06:36 19:22-19:54/32 20:27 18:58-19:20/22	07:39 17:49-18:33/44 19:04	07:47 15:18-15:31/13 16:45	08:50 15:54
4	04:42 22:31	05:33 20:21-20:39/18 21:43	06:38 19:22-19:51/29 20:25 18:57-19:21/24	07:41 17:49-18:30/41 19:02	07:49 15:16-15:32/16 16:43	08:52 15:53
5	04:43 22:31	05:36 20:20-20:40/20 21:41	06:40 19:23-19:47/24 20:22 18:56-19:21/25	07:43 18:17-18:27/10 18:59 17:48-18:15/27	07:52 15:15-15:34/19 16:40	08:54 15:52
6	04:44 22:30	05:38 20:19-20:40/21 21:39	06:42 19:24-19:44/20 20:19 18:54-19:22/28	07:45 18:21-18:25/4 18:56 17:49-18:16/27	07:54 15:13-15:34/21 16:38	08:55 15:51
7	04:45 22:29	05:40 20:17-20:40/23 21:36	06:45 19:25-19:41/16 20:16 18:54-19:22/28	07:47 17:48-18:15/27 18:53	07:56 15:13-15:35/22 16:36	08:57 15:51
8	04:47 22:28	05:42 20:17-20:40/23 21:34	06:47 19:28-19:38/10 20:14 18:53-19:22/29	07:49 17:48-18:14/26 18:51	07:58 15:13-15:37/24 16:34	08:58 15:50
9	04:48 22:27	05:44 20:16-20:41/25 21:32	06:49 18:52-19:22/30 20:11	07:52 17:49-18:13/24 18:48	08:01 15:13-15:36/23 16:32	09:00 15:50
10	04:49 22:26	05:46 20:16-20:41/25 21:29	06:51 18:52-19:21/29 20:08	07:54 17:49-18:11/22 18:45	08:03 15:13-15:37/24 16:30	09:01 15:49
11	04:51 22:25	05:48 20:16-20:41/25 21:27	06:53 18:52-19:21/29 20:05	07:56 17:51-18:10/19 18:43	08:05 15:12-15:37/25 16:28	09:02 15:49
12	04:52 22:24	05:50 20:16-20:41/25 21:24	06:55 18:52-19:20/28 20:03	07:58 17:52-18:08/16 18:40	08:07 15:13-15:38/25 16:26	09:04 15:48
13	04:53 22:23	05:52 20:16-20:41/25 21:22	06:57 18:49-19:19/30 20:00	08:00 17:17-17:26/9 18:37 17:54-18:05/11	08:10 15:13-15:37/24 16:24	09:05 15:48
14	04:55 22:21	05:54 20:16-20:40/24 21:20	06:59 18:46-19:18/32 19:57	08:02 17:14-17:29/15 18:35	08:12 15:14-15:37/23 16:22	09:06 15:48
15	04:56 22:20	05:56 20:16-20:40/24 21:17	07:01 18:44-19:17/33 19:54	08:05 17:12-17:30/18 18:32	08:14 15:14-15:37/23 16:20	09:07 15:48
16	04:58 22:18	05:58 20:17-20:39/22 21:15	07:03 18:43-19:15/32 19:51	08:07 17:10-17:31/21 18:29	08:16 15:15-15:37/22 16:18	09:08 15:48
17	05:00 22:17	06:01 20:18-20:38/20 21:12 19:48-19:53/5	07:05 18:42-19:13/31 19:49	08:09 17:10-17:32/22 18:27	08:18 15:15-15:36/21 16:16	09:09 15:48
18	05:01 22:15	06:03 20:19-20:37/18 21:10 19:44-19:57/13	07:07 18:41-19:10/29 19:46	08:11 17:09-17:33/24 18:24	08:21 15:17-15:36/19 16:14	09:10 15:48
19	05:03 22:14	06:05 20:20-20:35/15 21:07 19:40-19:58/18	07:09 18:41-19:05/24 19:43	08:13 17:08-17:32/24 18:22	08:23 15:17-15:33/16 16:13	09:11 15:48
20	05:05 22:12	06:07 20:22-20:32/10 21:04 19:36-20:00/24	07:11 18:41-19:05/24 19:40	08:16 17:08-17:33/25 18:19	08:25 15:19-15:32/13 16:11	09:11 15:49
21	05:06 22:11	06:09 19:33-20:01/28 21:02	07:14 18:41-19:04/23 19:38 18:26-18:33/7	08:18 17:07-17:33/26 18:16	08:27 15:20-15:29/9 16:09	09:12 15:49
22	05:08 22:09	06:11 19:31-20:01/30 20:59	07:16 18:41-19:03/22 19:35 18:22-18:36/14	08:20 17:07-17:32/25 18:14	08:29 15:22-15:27/5 16:08	09:13 15:49
23	05:10 22:07	06:13 19:29-20:02/33 20:57	07:18 18:41-19:01/20 19:32 18:20-18:37/17	08:22 17:08-17:32/24 18:11	08:31 15:25-15:26/1 16:06	09:13 15:50
24	05:12 22:05	06:15 19:27-20:01/34 20:54	07:20 18:41-18:58/17 19:29 18:18-18:38/20	08:24 17:08-17:31/23 18:09	08:33 15:25-15:26/1 16:05	09:13 15:51
25	05:14 22:04	06:17 19:25-20:01/36 20:51	07:22 18:42-18:55/13 19:26 18:17-18:38/21	07:27 16:09-16:31/22 17:06	08:35 15:25-15:26/1 16:03	09:14 15:51
26	05:16 22:02	06:19 19:24-20:01/37 20:49	07:24 18:44-18:52/8 19:24 18:16-18:39/23	07:29 16:09-16:30/21 17:04	08:37 15:25-15:26/1 16:02	09:14 15:52
27	05:18 22:00	06:22 19:23-20:01/38 20:46	07:26 18:47-18:50/3 19:21 18:15-18:39/24	7:59-18:11/12 17:01	07:31 16:10-16:27/17 16:01	08:39 15:53
28	05:20 21:58	06:24 19:23-20:00/37 20:44	07:28 18:14-18:38/24 19:18 17:56-18:13/17	07:33 16:12-16:25/13 16:59	08:41 15:25-15:26/1 15:59	09:14 15:54
29	05:21 21:56	06:26 19:22-20:00/38 20:41	07:30 17:54-18:38/44 19:15	07:36 16:13-16:21/8 16:57	08:43 15:25-15:26/1 15:58	09:14 15:55
30	05:23 21:54	06:28 19:22-19:59/37 20:38	07:32 17:53-18:38/45 19:13	07:38 16:13-16:21/8 16:54	08:45 15:25-15:26/1 15:57	09:14 15:56
31	05:25 21:52	06:30 19:22-19:58/36 20:35 19:07-19:14/7	07:34 17:53-18:38/45 19:11	07:40 16:13-16:21/8 16:52	08:47 15:25-15:26/1 15:57	09:14 15:57
Potential sun hours	536	473	385	322	243	210
Sum of minutes with flicker	0	849	1115	727	396	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, graphical



Shadow receptors

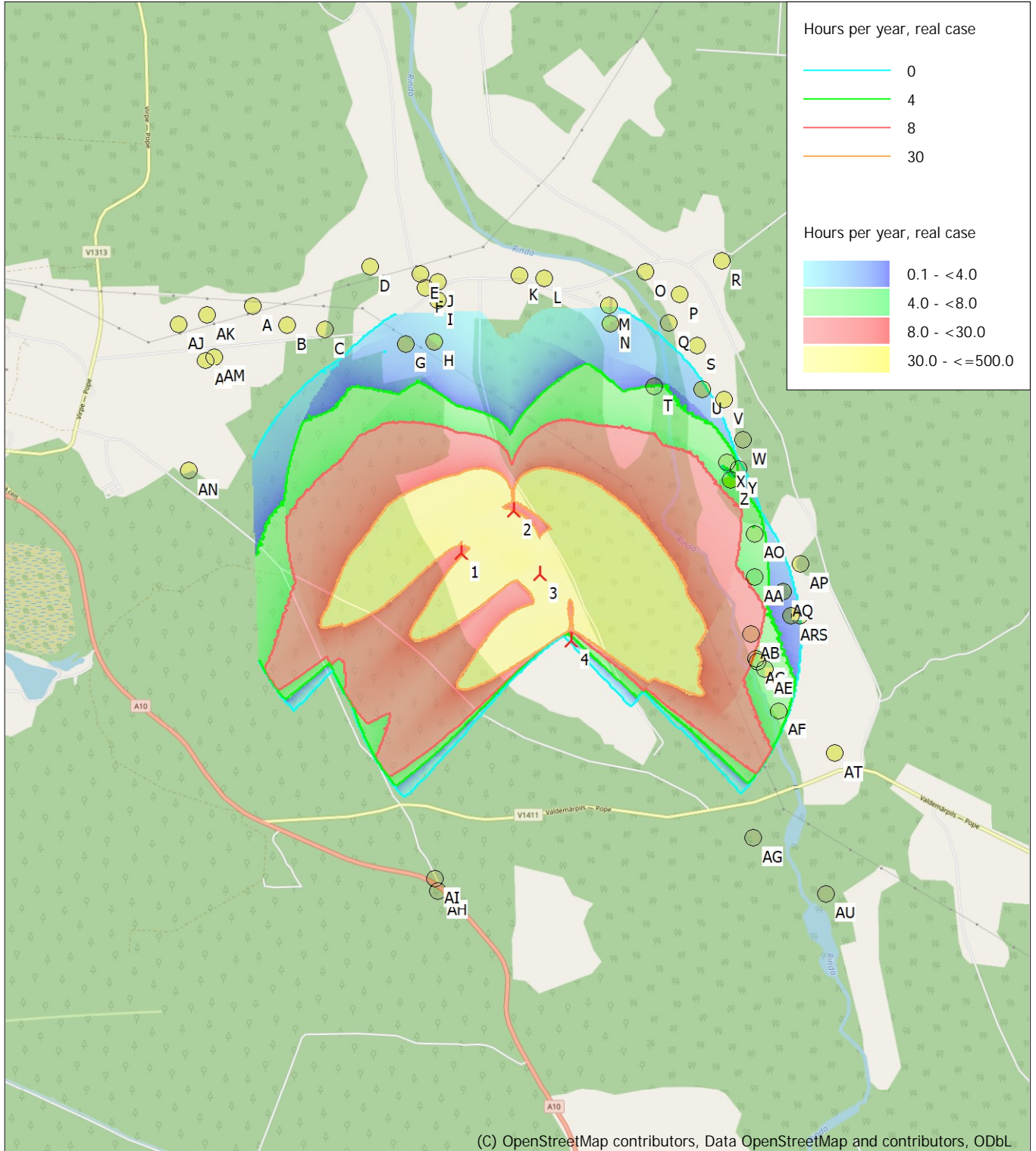
- G: Shadow Receptor: Dzirnavas
- H: Shadow Receptor: Berenti
- I: Shadow Receptor: Arumkalni
- M: Shadow Receptor: Sirupfabrika
- N: Shadow Receptor: Mež mainieki

- T: Shadow Receptor: Tirumi
- U: Shadow Receptor: Krauli
- X: Shadow Receptor: Krojji
- Y: Shadow Receptor: Vinkalni
- Z: Shadow Receptor: Salini

- AA: Shadow Receptor: Almatas
- AB: Shadow Receptor: Dziri
- AC: Shadow Receptor: Ciekurini
- AD: Shadow Receptor: Kraci
- AE: Shadow Receptor: Cerini

- AF: Shadow Receptor: Niedragi
- AO: Shadow Receptor: Jaunkaleji
- AQ: Shadow Receptor: Ivnieku ferma
- AR: Shadow Receptor: Kalnenieki

SHADOW - Map



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

0 500 1000 1500 2000 m

Map: EMD OpenStreetMap , Print scale 1:40,000, Map center Latvian TM LKS92-LKS92 (LV) East: 374,741 North: 362,612

🚧 New WTG

🟡 Shadow receptor

Flicker map level: Elevation Grid Data Object: jaunais_EMDGrid_0(1).wpg (1)