

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

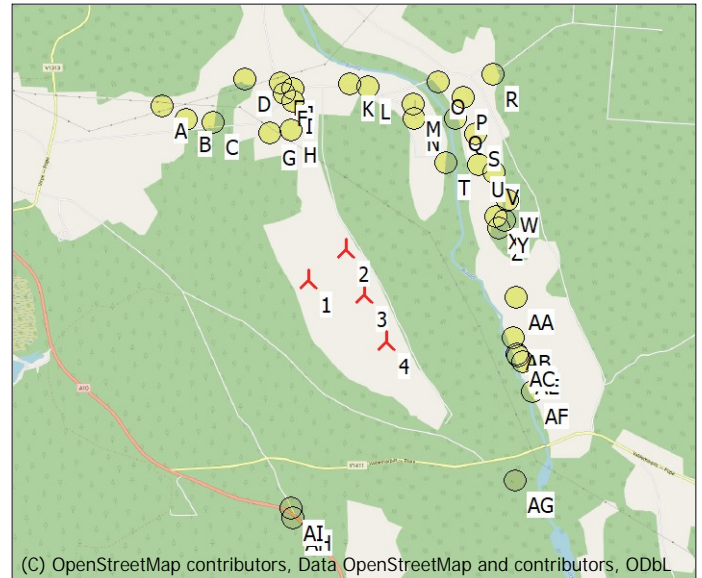
Operational time
 0 1 Sum
 3,899 3,899 7,798

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 (1)
 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 [kW]	Rotor diameter [m]	Hub height [m]	Calculation distance [m]	RPM [RPM]
1	374,416	362,833	20.5 VES-1 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,326	20.0
2	374,792	363,122	19.2 VES-2 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,326	20.0
3	374,968	362,670	19.2 VES-3 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,326	20.0
4	375,172	362,199	18.9 VES-4 (1.alternativa)	No	GENVIND	VALDIS-5,600	5,600	160.0	160.0	1,326	20.0



Scale 1:75,000
 ▲ New WTG ● Shadow receptor

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: Dzirnava	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
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

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Project:

Sarce 1. alternativa

Licensed user:

Enviroprojekts, SIA

Maza Nometņu iela 31

LV-1002 Rīga

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Calculated:

20/07/2021 14:02/3.4.424

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. [m]	window [°]		(ZVI) a.g.l. [m]
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

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: Dzirnava	0:00
H	Shadow Receptor: Berenti	1:29
I	Shadow Receptor: Arumkalni	0:00
J	Shadow Receptor: Auzini	0:00
K	Shadow Receptor: Silmalnieki	0:00
L	Shadow Receptor: Bisenieki	0:00
M	Shadow Receptor: Sirupfabrika	0:00
N	Shadow Receptor: Mež malnieki	0:00
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	2:18
U	Shadow Receptor: Krauli	0:00
V	Shadow Receptor: Kurzemnieki	0:00
W	Shadow Receptor: Mež Iodes	0:00
X	Shadow Receptor: Kroji	0:00
Y	Shadow Receptor: Vinkalni	0:00
Z	Shadow Receptor: Salini	0:00
AA	Shadow Receptor: Atmosas	0:00
AB	Shadow Receptor: Dziri	5:27
AC	Shadow Receptor: Ciekurini	6:05
AD	Shadow Receptor: Kraci	6:06
AE	Shadow Receptor: Cerini	0:00
AF	Shadow Receptor: Niedragi	0:00
AG	Shadow Receptor: Uplejas	0:00
AH	Shadow Receptor: Lielsili	0:00
AI	Shadow Receptor: Ozolini	0:00

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

No.	Name	Worst case [h/year]	Expected [h/year]
1	VES-1 (1.alternativa)	0:00	0:00
2	VES-2 (1.alternativa)	47:38	3:48
3	VES-3 (1.alternativa)	0:00	0:00
4	VES-4 (1.alternativa)	31:24	12:27

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

SHADOW - Calendar

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

SHADOW - Calendar

Shadow receptor: 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
	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	04:50	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
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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
	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	07:10	08:14	08:23	09:11
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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
	16:35	17:47	18:49	20:57	21:59	22:35	22:09	21:00	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	18:52	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	06:19	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
	16:47	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
	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		09:14
	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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 15:58	08:36 16:58	07:29 18:03	07:04 20:11	05:45 21:16	04:46 22:16	04:39 22:34	05:27 21:50	06:32 20:33	07:35 19:10	07:43 16:50	08:47 15:56
2	09:14 16:00	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	07:45 16:47	08:49 15:55
3	09:14 16:01	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	07:47 16:45	08:51 15:54
4	09:13 16:02	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	07:50 16:43	08:52 15:53
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6	09:12 16:05	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	08:56 15:51
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12	09:07 16:15	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	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 19:57	08:03 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	09:03 16:23	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	08:17 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 22:34	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	08:14 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 22:13	06:07 21:05	07:12 19:40	08:16 18:19	08:25 16:11	09:12 15:49
21	08:55 16:33	07:50 17:45	06:35 18:47	06:11 20:55	05:03 21:58	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 16:38	07:45 17:49	06:29 18:52	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 22:06	06:15 20:54	07:20 19:29	08:25 18:09	08:34 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 19:27	08:27 17:06	08:36 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	08:38 16:02	09:14 15:52
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31	08:38 16:56		07:07 20:09	04:47 22:15	04:47 22:15		05:25 21:52	06:30 20:36	07:40 16:52	08:45 15:57	09:15 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
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	08:03	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	04:34	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	06:01	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	08:13	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	17:45	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

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

Table with 12 columns for months (January-December) and 31 rows for days. Each cell contains start and end times. Summary rows at the bottom include 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 Nometņu iela 31
LV-1002 Rīga
+37129262684
Peteris Blumats / info@enviro.lv
Calculated:
20/07/2021 14:02/3.4.424

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



Project:
Sarce 1. alternativa

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
Peteris Blumats / info@enviro.lv
Calculated:
20/07/2021 14:02/3.4.424

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	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	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	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	08:30 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	09:13 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
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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
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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
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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 18:41	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	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	09:12 15:48
21	08:55 16:33	07:50 17:44	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	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 16:38	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	06:26 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
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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												
Total, real												

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

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

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
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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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	16:08	17:14	18:18	20:26	21:31	22:26	22:28	21:34	20:14	18:51	16:34	15:50
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	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	06:03	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	06:10	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
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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
	16:37	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
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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	17:06	16:03	15:51
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	16:44	17:56	18:58	21:05	22:07	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	22:35	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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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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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
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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	07:58	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
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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
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	05:05	06:07	07:11	08:16	08:25	09:11
	16:31	17:42	18:45	20:52	21:56	22:34	22:12	21:05	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	08:50	07:42	06:26	06:03	04:57	04:35	05:12	06:15	07:20	08:24	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	08:27	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	05:15	06:19	07:24	08:29	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	08:34	08:41	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
	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	08:38	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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	04:40 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	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
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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												
Total, real												

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

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

SHADOW - Calendar

Shadow receptor: 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
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 16:42	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	05:33 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	05:39 21:36	06:44 20:16	07:47 18:53	07:56 16:36	08:57 15:51
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31	08:38 16:55		07:07 20:09	04:47 22:15	04:47 22:15		05:25 21:52	06:30 20:35	07:40 16:52	07:40 16:52	09:14 15:57	09:14 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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

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

SHADOW - Calendar

Shadow receptor: 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

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14 15:58	08:36 16:16 (2)	15:57 (2) 18:03	07:29 20:11	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	15:22 (2) 15:56
2	09:14 16:00	08:34 16:17 (2)	15:55 (2) 18:05	07:26 20:13	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	15:22 (2) 15:55
3	09:13 16:01	08:32 16:18 (2)	15:55 (2) 18:07	07:24 20:15	06:59 21:20	05:41 22:19	04:43 22:32	04:41 22:42	05:31 21:45	06:36 20:27	07:39 19:04	15:22 (2) 15:54
4	09:13 16:02	08:29 17:05	15:55 (2) 16:19 (2)	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	15:23 (2) 15:53
5	09:12 16:04	08:27 17:07	15:53 (2) 16:20 (2)	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	15:23 (2) 15:52
6	09:12 16:05	08:25 17:09	15:53 (2) 16:21 (2)	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	15:24 (2) 15:51
7	09:11 16:07	08:23 17:12	15:52 (2) 16:21 (2)	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	15:24 (2) 15:51
8	09:11 16:08	08:21 17:14	15:53 (2) 16:21 (2)	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	15:26 (2) 15:50
9	09:10 16:10	08:19 17:16	15:53 (2) 16:22 (2)	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	15:26 (2) 15:49
10	09:09 16:12	08:16 17:19	15:53 (2) 16:22 (2)	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	15:28 (2) 15:49
11	09:08 16:13	08:14 17:21	15:53 (2) 16:21 (2)	07:02 18:25	06:37 20:33	05:22 21:37	04:37 22:29	04:50 22:25	05:48 21:27	06:53 20:05	07:56 18:43	15:29 (2) 15:49
12	09:07 16:15	08:12 17:23	15:53 (2) 16:21 (2)	07:00 18:27	06:34 20:35	05:20 21:40	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:03	07:58 18:40	15:32 (2) 15:48
13	09:06 16:17	08:09 17:26	15:54 (2) 16:21 (2)	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	09:05 15:48
14	09:05 16:19	08:07 17:28	15:54 (2) 16:20 (2)	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 15:48
15	09:04 16:21	08:05 17:30	15:55 (2) 16:19 (2)	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 15:48
16	09:02 16:23	08:02 17:33	15:56 (2) 16:19 (2)	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	09:08 15:48
17	09:01 16:25	08:00 17:35	15:57 (2) 16:17 (2)	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	09:09 15:48
18	09:00 16:27	07:57 17:37	15:59 (2) 16:16 (2)	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	09:10 15:48
19	08:58 16:29	07:55 17:40	16:02 (2) 16:13 (2)	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	09:11 15:48
20	08:57 16:31	07:52 17:42	16:13 (2)	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	09:11 15:48
21	08:55 16:33	07:50 17:44		06:35 18:47	06:10 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	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	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	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 18:09	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	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 17:04	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	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 20:44	07:28 19:18	08:33 16:59	09:14 15:54
29	08:42 16:51	16:04 (2) 16:06 (2)		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	09:14 15:55
30	08:40 16:53	16:00 (2) 16:11 (2)		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	09:14 15:56
31	08:38 16:55	15:58 (2) 16:14 (2)		07:07 20:09		04:47 22:15		05:25 21:52	06:30 20:35	07:40 16:52	08:45 15:50 (2)	09:14 15:57
Potential sun hours	230	263	366	429	513	536	473	385	322	243	283	209
Total, worst case	29	463							215		283	
Sun reduction	0.16	0.23							0.27		0.15	
Oper. time red.	0.89	0.89							0.89		0.89	
Wind dir. red.	0.74	0.74							0.74		0.74	
Total reduction	0.10	0.15							0.18		0.10	
Total, real	3	69							39		28	

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

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

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	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	06:47	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	09:02
	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	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	21:39	22:29	22:24	21:24	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
	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	22:19	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	18:40	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	07:14	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
	16:38	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	09:14
	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	08:41		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	22:12	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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 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 22:20	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	04:40 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	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 22:27	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	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	08:07 16:25	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	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 22:18	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	05:10 21:50	04:34 22:33	04:59 22:17	06:00 21:12	07:05 19:49	08:09 18:27	08:18 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 22:16	06:02 21:10	07:07 19:46	08:11 18:24	08:21 16:14	09:10 15:48
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31	08:38 16:55		07:07 20:09		04:47 22:15		05:25 21:52	06:30 20:35		07:40 16:52		09:14 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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: W - Shadow Receptor: Mež Iodes
 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
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
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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	09:10	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
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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
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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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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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	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
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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
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	16:51		20:04	21:12	22:11	22:34	21:56	20:41	19:15	16:56	15:58	15:55
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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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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	07:43 16:49	08:47 15:56
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Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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	Sun set (hh:mm)	Minutes with flicker	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	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	04:45	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	21:23	22:20	22:31	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
	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	20:03	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	18:29	20:37	21:42	22:30	22:23	21:22	20:00	18:37	16:24	15:48
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	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	06:03	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	21:54	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	08:16	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	22:34	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	09:13
	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
	16:38	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	18:54	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
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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	20:43	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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	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	04:45	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	21:23	22:20	22:31	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
	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	20:03	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	18:29	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	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	21:54	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	08:16	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	05:03	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	09:13
	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
	16:38	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
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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
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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
	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	16:57	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	09:14
	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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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	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	08:34	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	21:47	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	19:02	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	21:38	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
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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
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	20:33	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	04:36	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	21:44	22:31	22:21	21:20	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	06:49	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	21:48	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	15:49
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	09:13
	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
	16:38	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	18:54	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	22:03	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	22:02	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	16:01	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	16:57	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		20:07	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	20:35		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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: AB - 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) 05:45	04:46 22:16	04:39 22:33	05:27 21:49	06:32 20:33	19:03 (4) 07:34	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) 05:43	04:45 22:18	04:40 22:33	05:29 21:47	06:34 20:30	19:00 (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	18:59 (4) 05:41	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	18:58 (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	18:59 (4) 05:38	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	18:57 (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	18:58 (4) 05:36	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	18:56 (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	18:59 (4) 05:34	04:40 22:23	04:44 22:30	05:38 21:38	06:42 20:19	18:54 (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	18:59 (4) 05:31	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	18:54 (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	19:00 (4) 05:29	04:39 22:25	04:46 22:28	05:42 21:34	06:47 20:14	18:53 (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	19:00 (4) 05:27	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	18:52 (4) 07:51	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) 05:25	04:37 22:27	04:49 22:26	05:46 21:29	06:51 20:08	18:52 (4) 07:54	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) 05:22	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	18:52 (4) 07:56	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) 05:20	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:02	18:52 (4) 07:58	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 22:22	04:53 22:22	05:52 21:22	06:57 20:00	18:52 (4) 08:00	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 22:21	04:55 22:21	05:54 21:20	06:59 19:57	18:52 (4) 08:02	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 22:26	05:56 21:17	07:01 19:54	18:53 (4) 08:04	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	04:35 22:32	04:58 22:15	05:58 21:15	07:03 19:51	18:54 (4) 08:07	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	18:55 (4) 08:09	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 21:10	07:07 19:46	18:57 (4) 08:11	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	19:10 (4) 08:13	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	19:17 (4) 08:15	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	05:03 21:57	04:34 22:34	05:06 22:11	06:09 21:02	07:13 19:37	19:18 (4) 08:18	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	19:19 (4) 08:14	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	18:18 07:20	08:22 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	19:17 (4) 08:24	08:33 16:05	09:13 15:51
25	08:49 16:42	07:39 17:54	06:24 18:56	18:10 (4) 21:03	06:00 21:03	04:35 22:35	05:14 22:03	06:17 20:51	07:22 19:26	18:19 07:27	08:35 16:03	09:14 15:51
26	08:47 16:44	07:37 17:56	06:21 18:58	18:08 (4) 21:05	05:58 21:05	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	17:06 07:29	08:37 16:02	09:14 15:52
27	08:45 16:46	07:34 17:58	06:18 19:00	18:05 (4) 21:07	05:55 21:07	04:36 22:35	05:18 22:00	06:21 20:46	07:26 19:21	17:04 07:31	08:39 16:01	09:14 15:53
28	08:43 16:49	07:32 18:00	06:15 19:02	18:04 (4) 21:09	05:53 21:09	04:37 22:35	05:19 22:00	06:24 20:46	07:28 19:21	17:01 07:33	08:41 16:01	09:14 15:53
29	08:41 16:51	07:31 20:04	06:13 25	18:27 (4) 21:12	05:50 21:12	04:38 22:34	05:21 21:56	06:26 20:41	07:30 19:15	18:18 16:57	08:43 15:59	09:14 15:54
30	08:39 16:53	07:10 20:06	06:11 27	19:02 (4) 21:14	05:48 21:14	04:38 22:34	05:23 21:54	06:28 20:38	07:32 19:13	18:18 16:54	08:45 15:57	09:14 15:56
31	08:38 16:56	07:07 20:09	06:10 29	19:00 (4) 21:14	05:47 21:14	04:47 22:34	05:25 21:54	06:30 20:38	19:07 (4) 19:14 (4)	16:54 07:40	15:57 16:52	09:14 15:57
Potential sun hours	230	263	366	428	513	536	536	473	385	322	243	210
Total, worst case			153	284				7	434			
Sun reduction			0.38	0.44				0.55	0.42			
Oper. time red.			0.89	0.89				0.89	0.89			
Wind dir. red.			1.00	1.00				1.00	1.00			
Total reduction			0.34	0.39				0.49	0.37			
Total, real			51	111				3	162			

Table 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: 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) 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	19:21 (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	19:22 (4) 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	9	19:34 (4) 05:38 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	19:22 (4) 19:07	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	16	19:30 (4) 05:36 21:25	04:41 22:22	04:43 22:31	05:35 21:41	06:40 20:22	19:23 (4) 19:05	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	19	19:29 (4) 05:34 21:27	04:40 22:23	04:44 22:30	05:38 21:38	06:42 20:19	19:24 (4) 19:06	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	22	19:27 (4) 05:31 21:29	04:39 22:24	04:45 22:29	05:40 21:36	06:44 20:16	19:25 (4) 19:01	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	25	19:25 (4) 05:29 21:31	04:39 22:25	04:46 22:28	05:42 21:34	06:47 20:14	19:28 (4) 19:00	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	26	19:24 (4) 05:27 21:33	04:38 22:26	04:48 22:27	05:44 21:32	06:49 20:11	19:38 (4) 18:51	07:51 16:32	09:00 15:50	
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	27	19:24 (4) 05:25 21:35	04:37 22:27	04:49 22:26	05:46 21:29	06:51 20:08	19:45 (4) 18:45	07:54 16:30	09:01 15:49	
11	09:08 16:14	08:14 17:21	07:02 18:25	06:37 20:33	28	19:22 (4) 05:22 21:37	04:37 22:28	04:50 22:25	05:48 21:27	06:53 20:05	18:45 18:43	07:56 16:28	09:02 15:49	
12	09:07 16:15	08:12 17:23	06:59 18:27	06:34 20:35	28	19:23 (4) 05:20 21:39	04:36 22:29	04:52 22:24	05:50 21:24	06:55 20:02	18:58 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	28	19:22 (4) 05:18 21:41	04:36 22:30	04:53 22:22	05:52 21:22	06:57 20:00	18:00 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	29	19:21 (4) 05:16 21:43	04:35 22:31	04:55 22:21	05:54 21:19	06:59 19:57	18:02 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	28	19:22 (4) 05:14 21:46	04:35 22:32	04:56 22:20	05:56 21:17	07:01 19:54	18:04 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	27	19:22 (4) 05:12 21:48	04:35 22:32	04:58 22:18	05:58 21:15	07:03 19:51	18:07 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	26	19:22 (4) 05:10 21:50	04:34 22:33	05:00 22:17	06:00 21:12	07:05 19:49	18:09 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	25	19:22 (4) 05:08 21:51	04:34 22:33	05:01 22:15	06:03 21:10	07:07 19:46	18:11 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	22	19:24 (4) 05:06 21:53	04:34 22:34	05:03 22:14	06:05 21:07	07:09 19:43	18:13 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	20	19:24 (4) 05:04 21:55	04:34 22:34	05:05 22:12	06:07 21:04	19:37 (4) 19:42 (4)	07:11 19:40	18:15 16:11	08:25 15:49	
21	08:55 16:33	07:50 17:44	06:35 18:47	06:11 20:54	17	19:26 (4) 05:03 21:57	04:34 22:34	05:06 22:11	06:09 21:02	19:33 (4) 19:46 (4)	07:13 19:37	18:18 16:09	08:27 15:49	
22	08:54 16:35	07:47 17:47	06:32 18:49	06:08 20:56	12	19:28 (4) 05:01 21:59	04:34 22:35	05:08 22:09	06:11 20:59	19:31 (4) 19:48 (4)	07:16 19:35	18:20 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	19:29 (4) 19:49 (4)	07:18 19:32	18:22 16:06	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	19:27 (4) 19:50 (4)	07:20 19:29	18:24 18:09	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		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	17:27 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	19:24 (4) 19:50 (4)	07:24 19:24	17:29 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 22:34	05:18 22:00	06:21 20:46	19:23 (4) 19:51 (4)	07:26 19:21	17:31 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	19:23 (4) 19:51 (4)	07:28 19:18	17:33 16:59	08:41 15:59	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	19:22 (4) 19:51 (4)	07:30 19:15	17:36 16:57	08:43 15:58	09:14 15:55
30	08:39 16:53		07:10 20:06	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	17:38 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 20:35		19:22 (4) 19:50 (4)		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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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) 19:52 (4)	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	19:25 (4) 19:51 (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	05:41 21:20	04:43 22:19	04:41 22:32	05:31 21:45	06:36 20:27	19:26 (4) 19:50 (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	05:38 21:22	04:42 22:20	04:42 22:31	05:33 21:43	06:38 20:25	19:26 (4) 19:48 (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	05:36 19:37 (4) 21:25	04:41 19:45 (4) 22:22	04:43 21:29 22:31	05:35 21:41	06:40 20:22	19:27 (4) 19:47 (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	05:34 19:49 (4) 21:27	04:40 19:31 (4) 22:23	04:44 21:29 22:30	05:38 21:40	06:42 20:19	19:29 (4) 19:44 (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	05:31 19:50 (4) 21:29	04:39 19:29 (4) 22:24	04:45 21:29 22:29	05:40 21:36	06:44 20:16	19:32 (4) 19:41 (4)	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 19:51 (4) 21:31	04:39 19:28 (4) 22:25	04:46 21:28 22:28	05:42 21:34	06:47 20:14	19:41 (4) 18:51	07:49 16:34	07:58 15:50	08:58 15:50
9	09:10 16:10	08:18 17:16	07:08 18:21	06:42 20:28	05:27 19:52 (4) 21:33	04:38 19:27 (4) 22:26	04:48 21:27 22:27	05:44 21:32	06:49 20:11	18:51 18:48	16:34 16:32	15:50 15:50	09:00 15:50
10	09:09 16:12	08:16 17:19	07:05 18:23	06:40 20:30	05:25 19:53 (4) 21:35	04:37 19:26 (4) 22:27	04:49 21:27 22:26	05:46 21:29	06:51 20:08	18:54 18:45	16:32 16:30	15:50 15:49	09:01 15:49
11	09:08 16:14	08:14 17:21	07:02 18:25	06:37 20:33	05:22 19:53 (4) 21:37	04:37 19:26 (4) 22:28	04:50 21:37 22:25	05:48 21:27	06:53 20:05	18:45 18:43	16:30 16:28	15:49 15:49	09:02 15:49
12	09:07 16:15	08:12 17:23	06:59 18:27	06:34 20:35	05:20 19:54 (4) 21:39	04:36 19:25 (4) 22:29	04:52 21:39 22:24	05:50 21:24	06:55 20:02	18:58 18:40	16:27 16:26	15:48 15:48	09:04 15:48
13	09:06 16:17	08:09 17:26	06:57 18:29	06:32 20:37	05:18 19:53 (4) 21:41	04:36 19:24 (4) 22:30	04:53 21:41 22:22	05:52 21:22	06:57 20:00	18:00 18:37	16:24 16:24	15:48 15:48	09:05 15:48
14	09:05 16:19	08:07 17:28	06:54 18:32	06:29 20:39	05:16 19:53 (4) 21:43	04:35 19:24 (4) 22:31	04:55 21:43 22:21	05:54 21:19	06:59 19:57	18:02 18:35	16:22 16:22	15:48 15:48	09:06 15:48
15	09:03 16:21	08:04 17:30	06:51 18:34	06:26 20:41	05:14 19:53 (4) 21:46	04:35 19:24 (4) 22:32	04:56 21:46 22:20	05:56 21:17	07:01 19:54	18:04 18:32	16:20 16:20	15:48 15:48	09:07 15:48
16	09:02 16:23	08:02 17:33	06:49 18:36	06:24 20:43	05:12 19:52 (4) 21:48	04:35 19:24 (4) 22:32	04:58 21:48 22:18	05:58 21:15	07:03 19:51	18:07 18:29	16:18 16:18	15:48 15:48	09:08 15:48
17	09:01 16:25	08:00 17:35	06:46 18:38	06:21 20:46	05:10 19:52 (4) 21:50	04:34 19:25 (4) 22:33	05:00 21:50 22:17	06:00 21:12	07:05 19:49	18:09 18:27	16:16 16:16	15:48 15:48	09:09 15:48
18	09:00 16:27	07:57 17:37	06:43 18:40	06:18 20:48	05:08 19:51 (4) 21:51	04:34 19:26 (4) 22:33	05:01 21:51 22:05	06:03 21:10	07:07 19:46	18:07 18:24	16:14 16:14	15:48 15:48	09:10 15:48
19	08:58 16:29	07:55 17:40	06:40 18:43	06:16 20:50	05:06 19:50 (4) 21:53	04:34 19:26 (4) 22:34	05:03 21:53 22:14	06:05 21:07	19:40 (4) 19:46 (4)	07:09 19:43	18:13 18:21	16:13 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 19:48 (4) 21:55	04:34 19:26 (4) 22:34	05:05 21:55 22:12	06:07 21:04	19:36 (4) 19:49 (4)	07:11 19:40	18:15 18:19	16:11 16:11	09:11 15:49
21	08:55 16:33	07:50 17:44	06:35 18:47	06:11 20:54	05:03 19:48 (4) 21:57	04:34 19:27 (4) 22:34	05:06 21:57 22:11	06:09 21:02	19:34 (4) 19:51 (4)	07:13 19:37	18:18 18:16	16:09 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 19:45 (4) 21:59	04:34 19:28 (4) 22:35	05:08 21:59 22:09	06:11 20:59	19:32 (4) 19:52 (4)	07:16 19:35	18:20 18:14	16:08 16:08	09:12 15:49
23	08:52 16:38	07:45 17:49	06:29 18:51	06:05 20:59	05:01 19:43 (4) 22:01	04:35 19:28 (4) 22:35	05:10 22:01 22:07	06:13 20:57	19:30 (4) 19:53 (4)	07:18 19:32	18:22 18:11	16:06 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 19:35 (4) 22:03	04:35 19:28 (4) 22:35	05:12 22:03 22:05	06:15 20:54	19:29 (4) 19:54 (4)	07:20 19:29	18:24 18:09	16:05 16:05	09:13 15:51
25	08:49 16:42	07:39 17:54	06:24 18:56	06:00 21:03	05:00 19:38 (4) 22:05	04:35 22:05 22:35	05:14 22:03	06:17 20:51	19:27 (4) 19:53 (4)	07:22 19:26	18:07 17:06	16:03 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 19:48 (4) 22:06	04:36 22:06 22:35	05:16 22:02	06:19 20:49	19:27 (4) 19:54 (4)	07:24 19:24	18:07 17:04	16:02 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 19:45 (4) 22:08	04:36 22:08 22:34	05:18 22:00	06:21 20:46	19:26 (4) 19:54 (4)	07:26 19:21	17:04 17:01	16:01 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	19:25 (4) 19:54 (4)	07:28 19:18	17:01 16:59	16:01 15:59	09:14 15:54
29	08:41 16:51	07:13 20:04	05:50 21:12	04:50 22:11	04:50 22:11	04:38 22:34	05:21 21:56	06:26 20:41	19:25 (4) 19:53 (4)	07:30 19:15	17:06 16:57	16:03 15:58	09:14 15:55
30	08:39 16:53	07:10 20:06	05:48 21:14	04:48 22:13	04:48 22:34	05:23 21:54	06:28 20:38	06:28 20:38	19:25 (4) 19:53 (4)	07:32 19:13	17:06 16:54	16:03 15:57	09:14 15:56
31	08:38 16:56	07:07 20:09	05:48 21:14	04:47 22:15	04:47 22:35	05:25 21:52	06:30 20:35	06:30 20:35	19:25 (4) 19:52 (4)	07:40 16:52	16:52 16:52	15:57 15:57	09:14 15:57
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)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

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	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	19:02	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	20:19	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	04:39	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	06:47	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	08:18	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	20:33	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	04:36	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	06:49	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	21:48	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	06:11	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	22:11	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	15:51
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	22:03	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	22:02	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	06:21	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	05:19	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	22:34	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	20:35		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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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	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	20:25	19:02	16:43	15:53
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	16:04	17:07	18:12	20:19	21:25	22:22	22:31	21:41	20:22	18:59	16:40	15:52
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	16:05	17:09	18:14	20:22	21:27	22:23	22:30	21:38	20:19	18:56	16:38	15:51
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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	05:22	04:37	04:50	05:48	06:53	07:56	08:05	09:02
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	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
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31	08:37		07:07		04:47		05:25	06:30		07:40		09:14
	16:56		20:09		22:14		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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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 15:58	08:35 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 22:17	04:40 22:33	05:29 21:47	06:34 20:30	07:37 19:07	07:45 16:47	08:48 15:55
3	09:13 16:01	08:31 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 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 20:24	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	05:36 21:25	04:41 22:22	04:43 22:31	05:36 21:41	06:40 20:22	07:43 18:59	07:51 16:40	08:54 15:52
6	09:12 16:05	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 21:38	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	04:40 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	04:47 22:28	05:42 21:34	06:47 20:14	07:49 18:51	07:58 16:34	08:58 15:50
9	09:09 16:10	08:18 17:17	07:08 18:21	06:42 20:28	05:27 21:33	04:38 22:26	04:48 22:27	05:44 21:31	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	04:51 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	08:11 17:24	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 18:40	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	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
15	09:03 16:21	08:04 17:31	06:51 18:34	06:26 20:41	05:14 21:45	04:35 22:31	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	05:12 21:47	04:35 22:32	04:58 22:18	05:58 21:14	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 21:49	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	08:59 16:27	07:57 17:38	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	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	08:13 18:22	08:23 16:13	09:10 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	08:15 18:19	08:25 16:11	09:11 15:49
21	08:55 16:33	07:50 17:44	06:35 18:47	06:11 20:54	05:03 21:57	04:34 22:34	05:06 22:10	06:09 21:02	07:13 19:37	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	04:35 22:34	05:08 22:09	06:11 20:59	07:16 19:35	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	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	08:24 18:09	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	04:56 22:05	04:36 22:35	05:14 22:03	06:17 20:51	07:22 19:26	07:27 17:06	08:35 16:03	09:14 15:51
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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	05:20 21:58	06:24 20:43	07:28 19:18	07:33 16:59	08:41 15:59	09:14 15:54
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31	08:37 16:56		07:07 20:09		04:47 22:14		05:25 21:51	06:30 20:35		07:40 16:52		09:14 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)	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker
			(WTG causing flicker last time)

SHADOW - Calendar

Shadow receptor: 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
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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	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	06:20	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	04:37	05:18	06:22	07:26	07:31	08:39	09:14
	16:47	17:58	19:00	21:07	22:08	22:35	22:00	20:46	19:21	17:02	16:01	15:53
28	08:43	07:32	06:16	05:53	04:51	04:37	05:20	06:24	07:28	07:33	08:41	09:14
	16:49	18:01	19:02	21:10	22:10	22:34	21:58	20:44	19:18	16:59	16:00	15:54
29	08:41		07:13	05:50	04:50	04:38	05:22	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	08:40		07:10	05:48	04:49	04:39	05:24	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		05:26	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

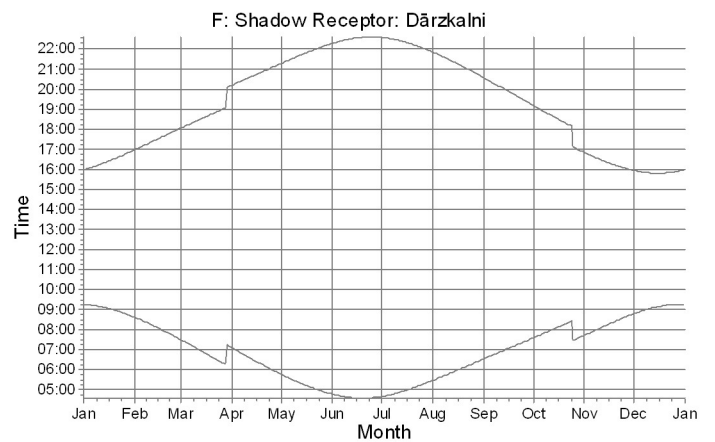
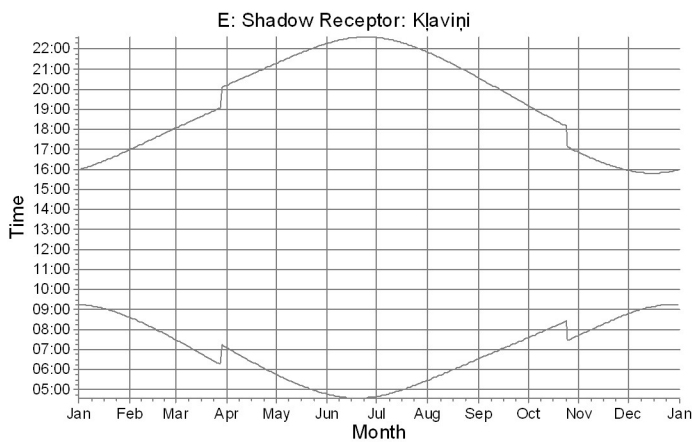
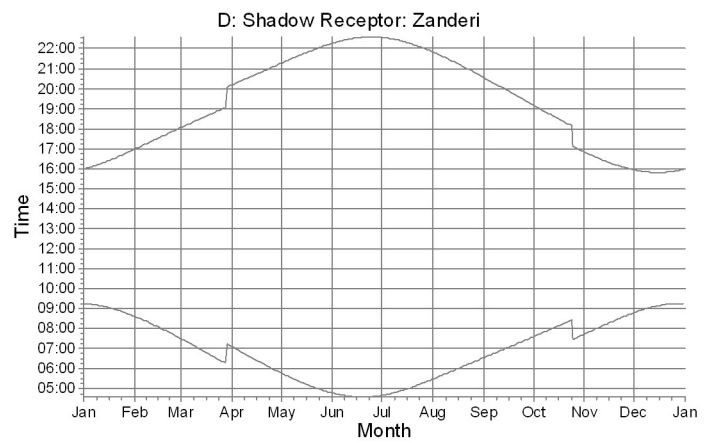
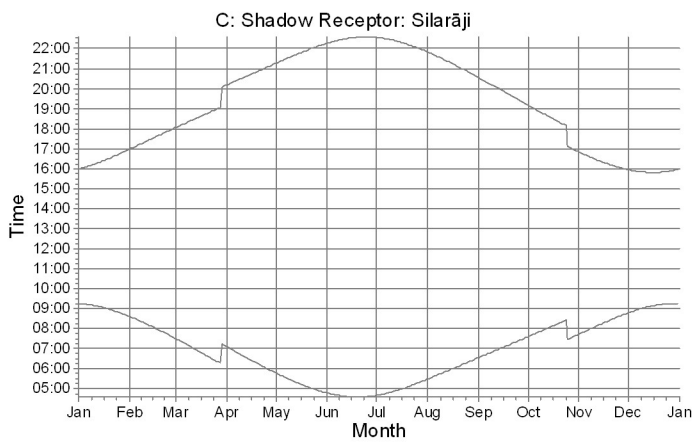
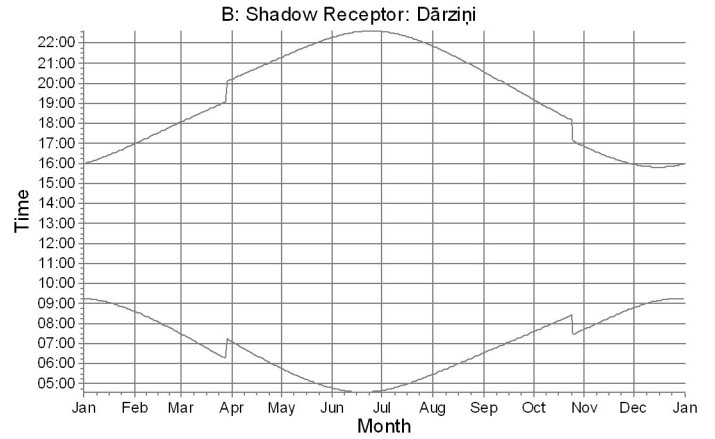
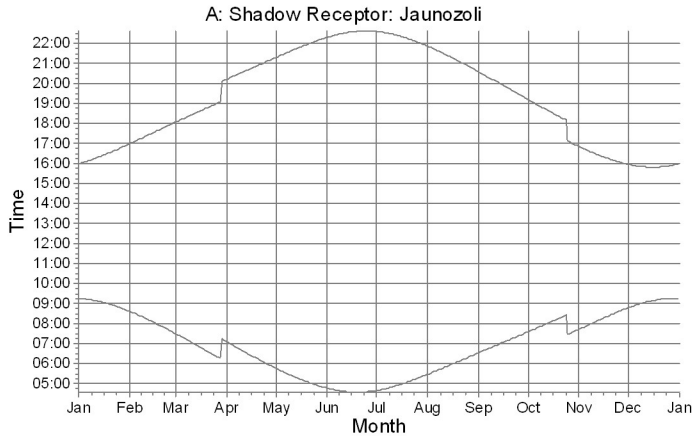
Operational time		
0	1	Sum
3,899	3,899	7,798

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

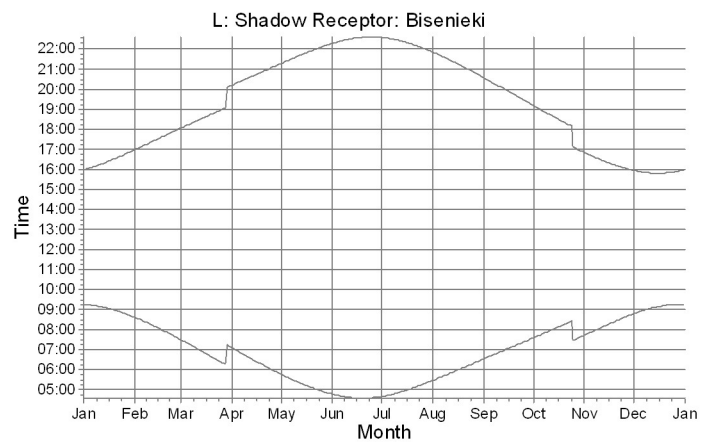
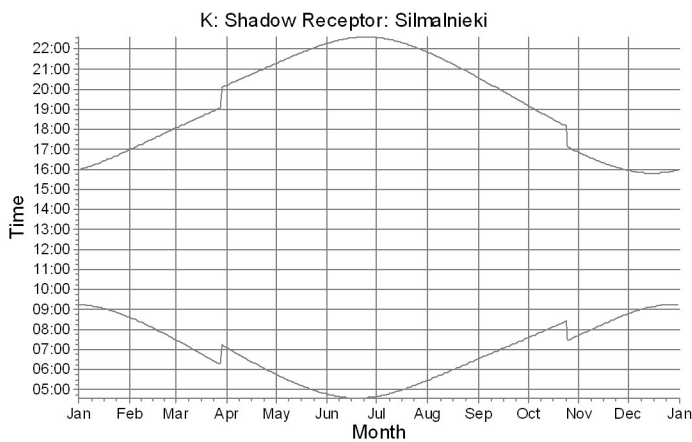
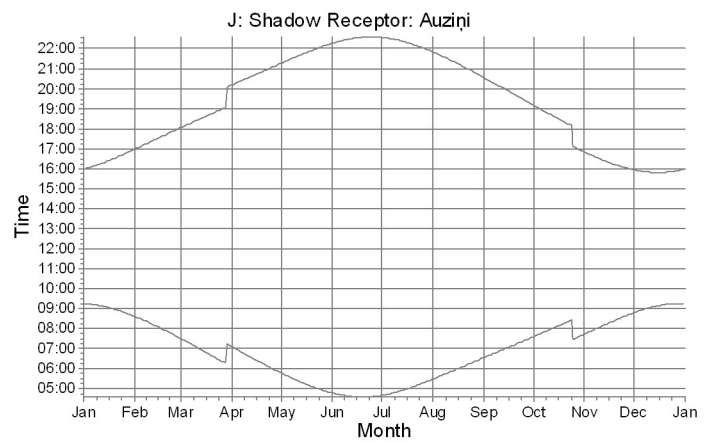
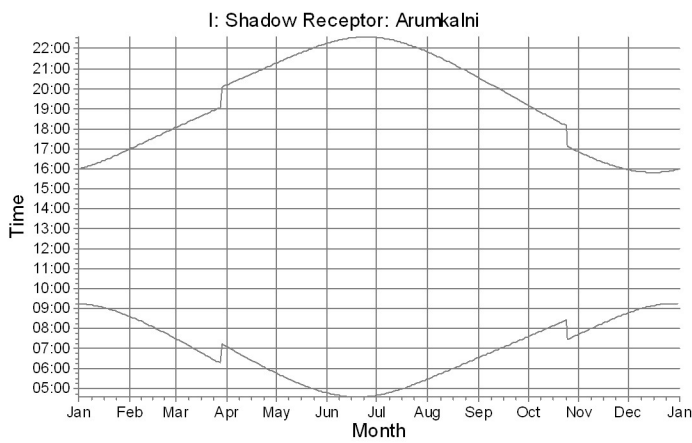
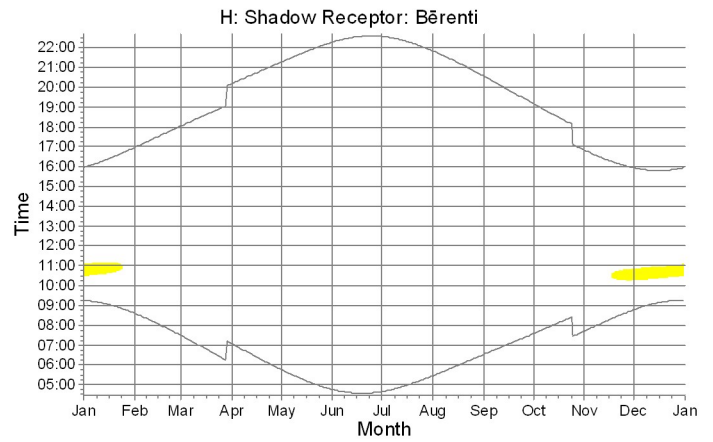
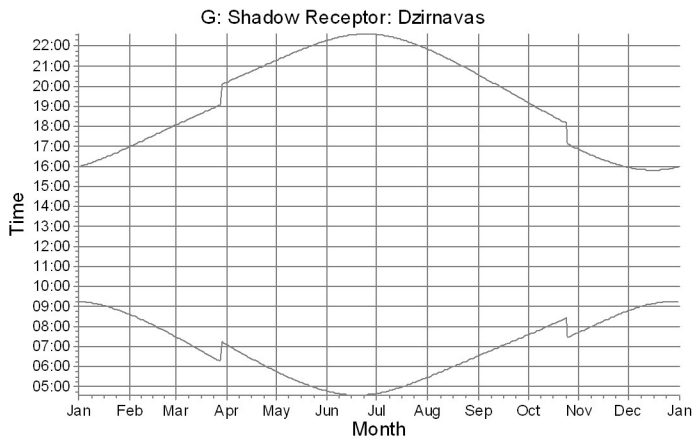
Table layout: For each day in each month the following matrix apply

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

SHADOW - Calendar, graphical



SHADOW - Calendar, graphical



WTGs



2: VES-2 (1.alternativa)

Project:

Sarce 1. alternativa

Licensed user:

Enviroprojekts, SIA

Maza Nometņu iela 31

LV-1002 Rīga

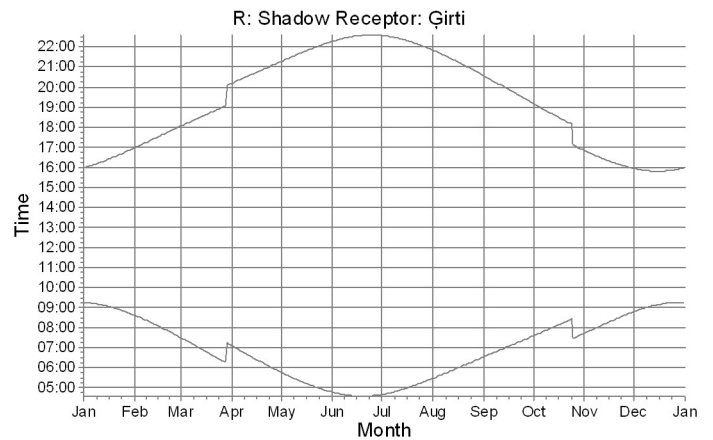
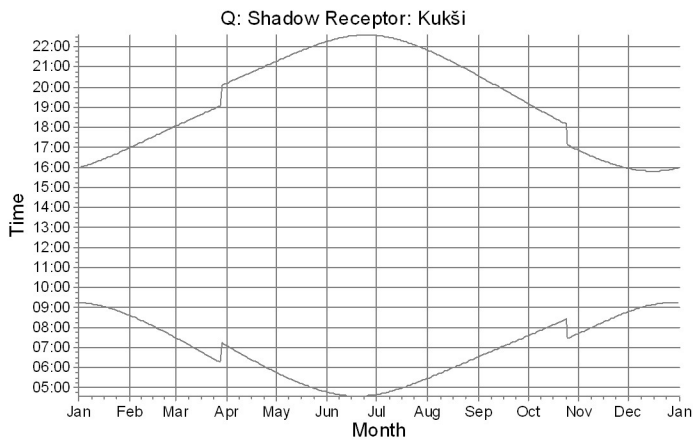
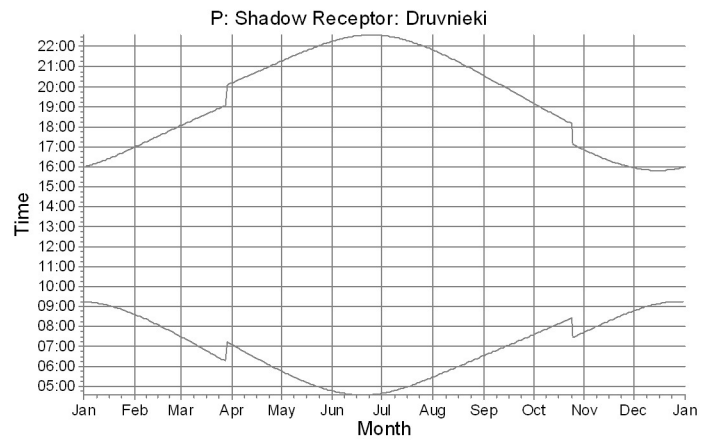
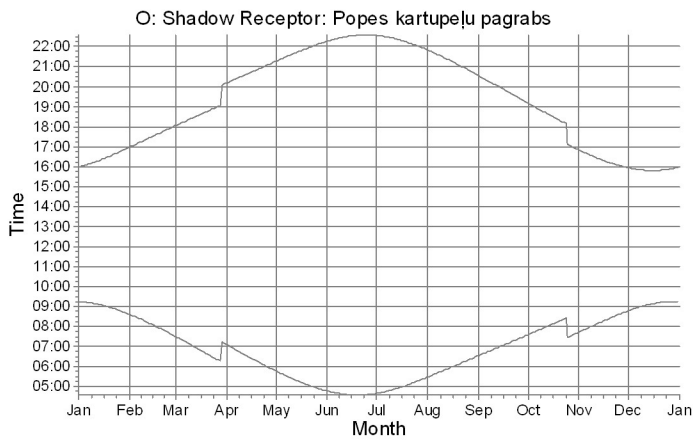
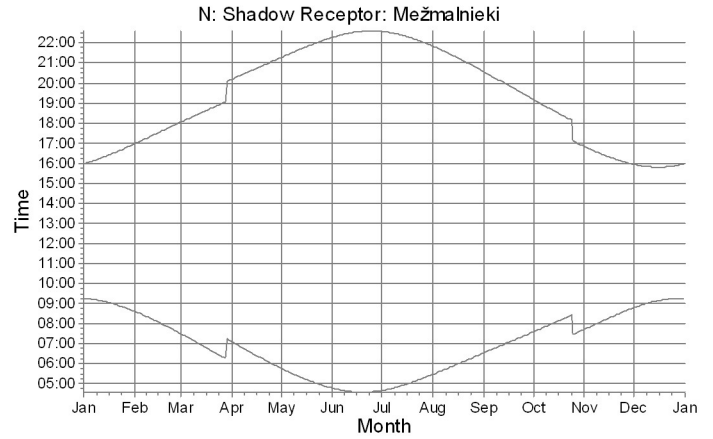
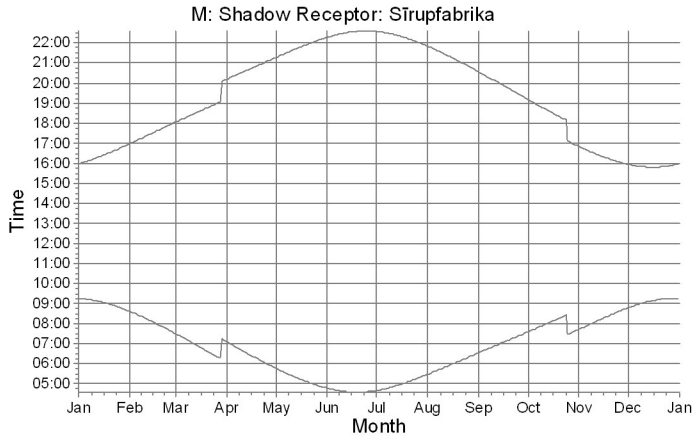
+37129262684

Peteris Blumats / info@enviro.lv

Calculated:

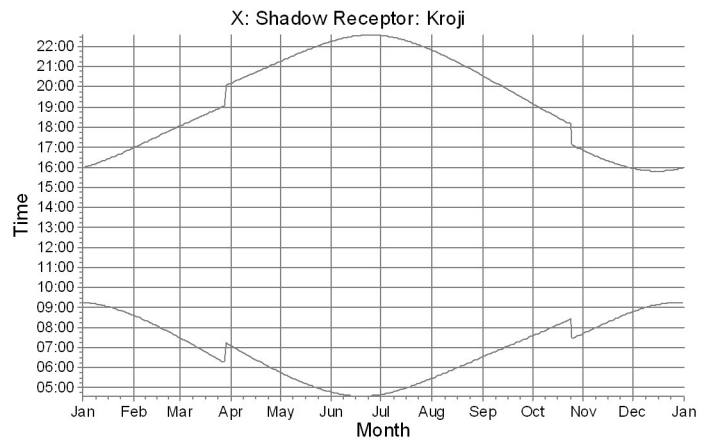
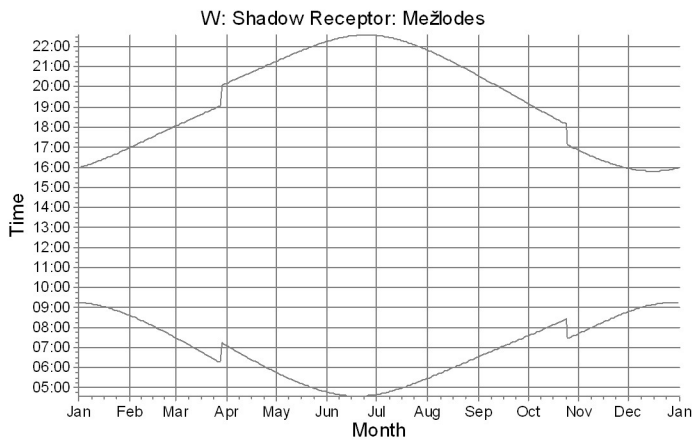
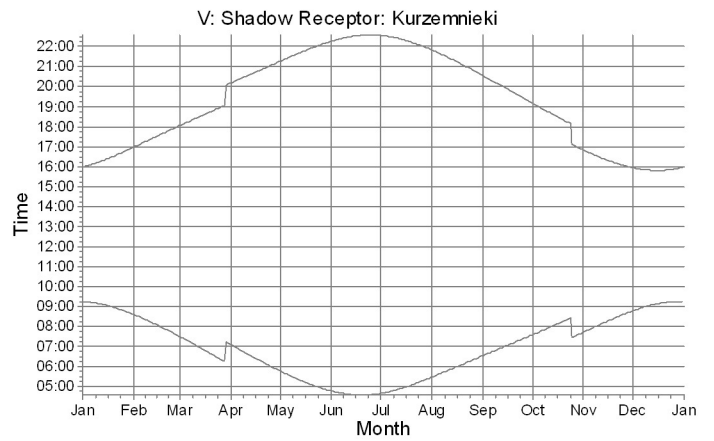
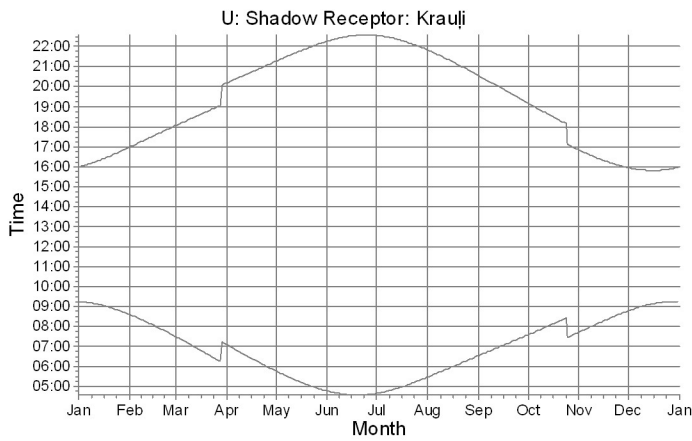
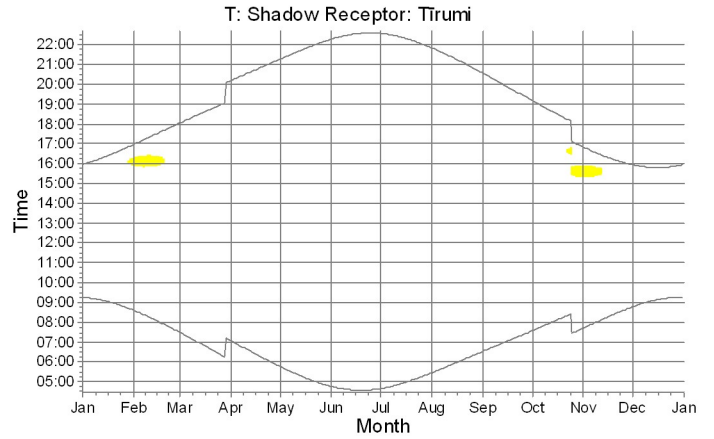
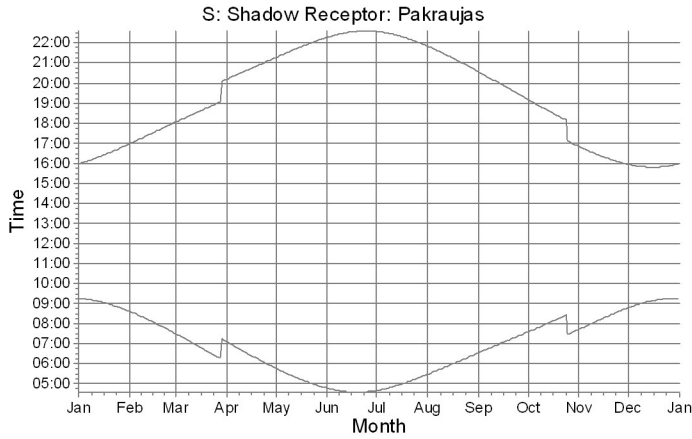
20/07/2021 14:02/3.4.424

SHADOW - Calendar, graphical



WTGs

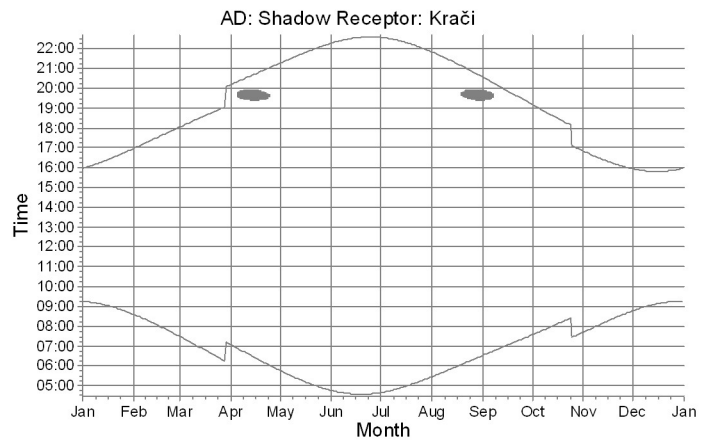
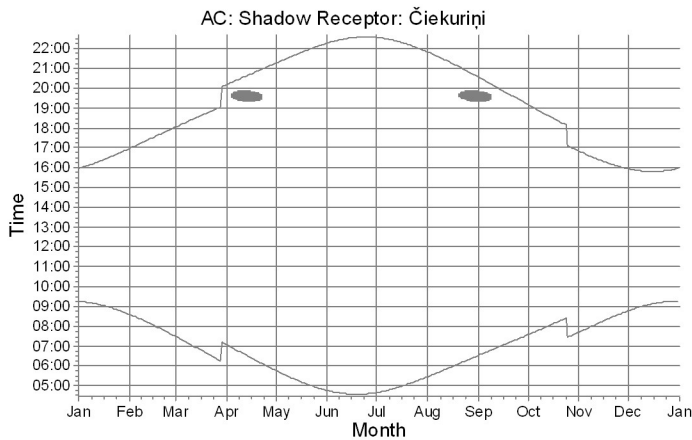
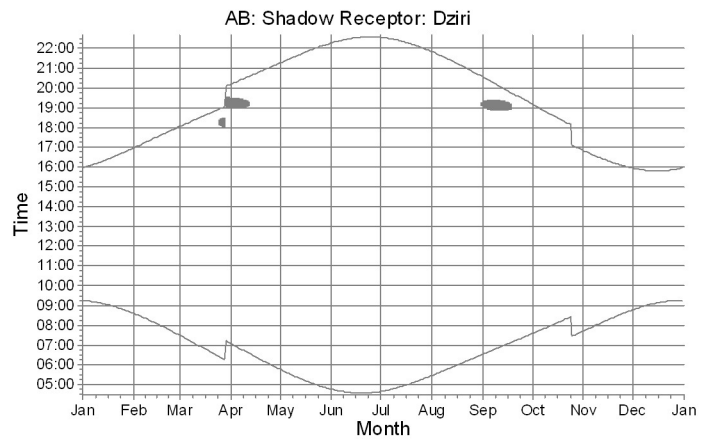
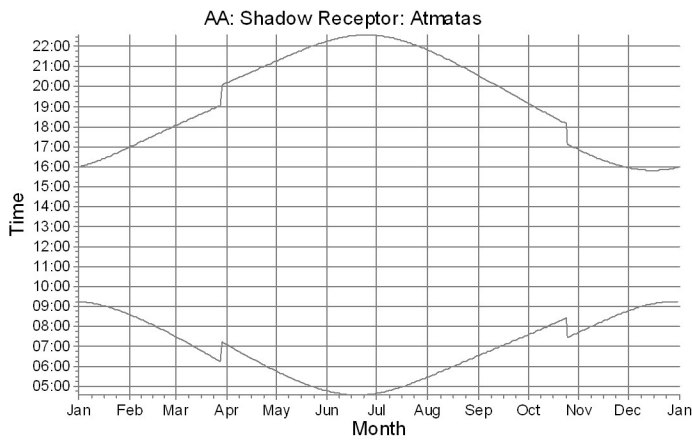
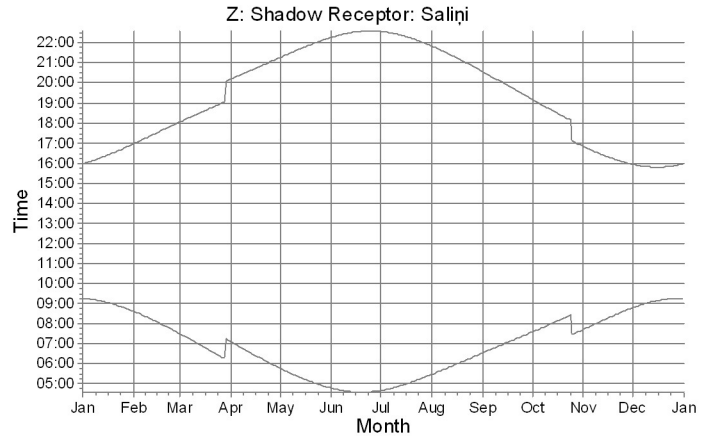
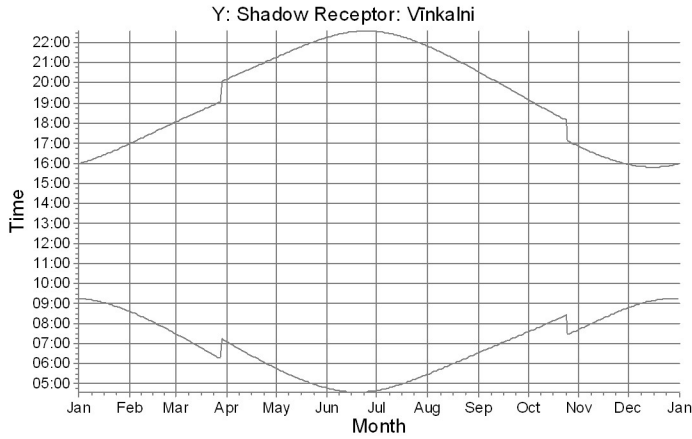
SHADOW - Calendar, graphical



WTGs

2: VES-2 (1.alternativa)

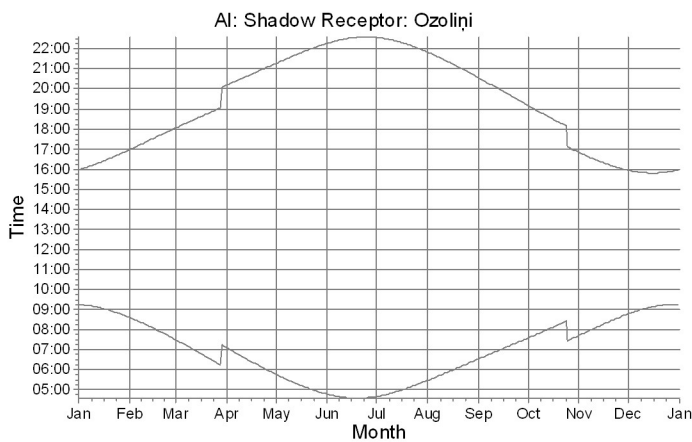
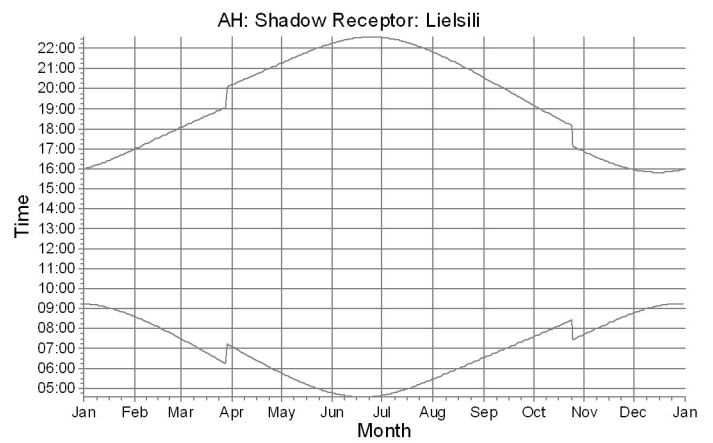
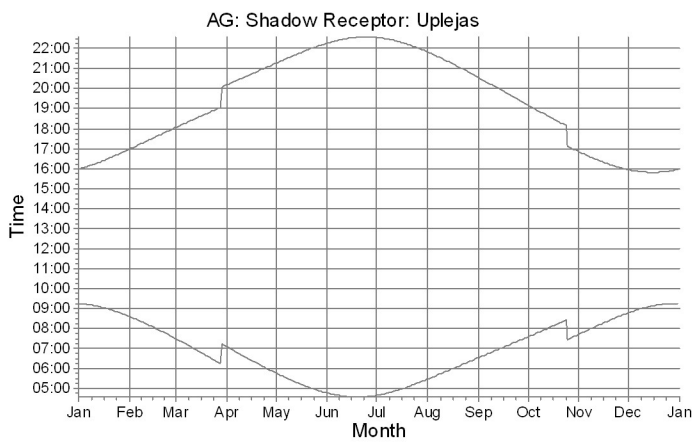
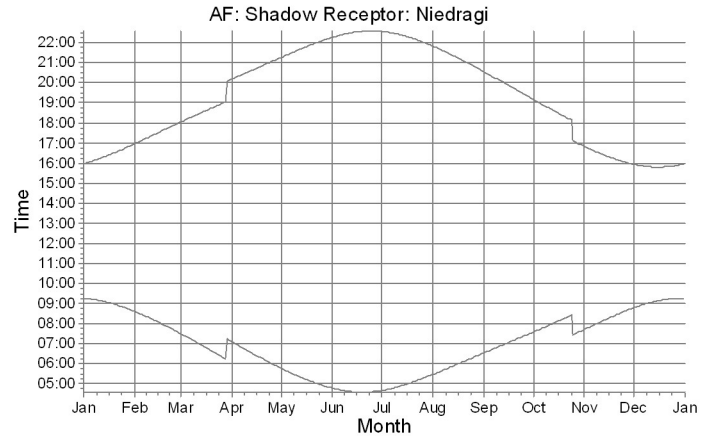
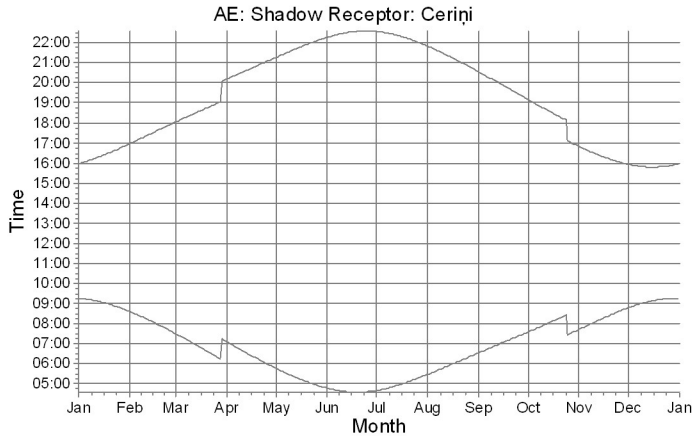
SHADOW - Calendar, graphical



WTGs

4: VES-4 (1.alternativa)

SHADOW - Calendar, graphical



Project:

Sarce 1. alternativa

Licensed user:

Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
Peteris Blumats / info@enviro.lv
Calculated:
20/07/2021 14:02/3.4.424

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 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	07:35 19:10	07:43 16:50	08:47 15:56
2	09:14 16:00	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 16:01	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 16:02	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 16:04	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 16:05	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 22:27	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 19:57	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	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 22:07	04:36 22:35	05:16 22:02	06:19 20:49	07:24 19:24	07:29 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	07:31 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	07:34 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	07:36 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	07:38 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	0	0	0	0	0	0	0	0	0	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 4 - VES-4 (1.alternativa)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 1 row of values: 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 table with columns 0, 1, Sum and values 3,899, 3,899, 7,798

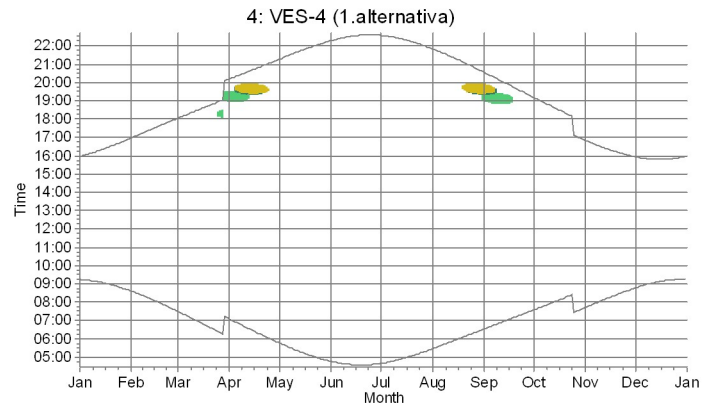
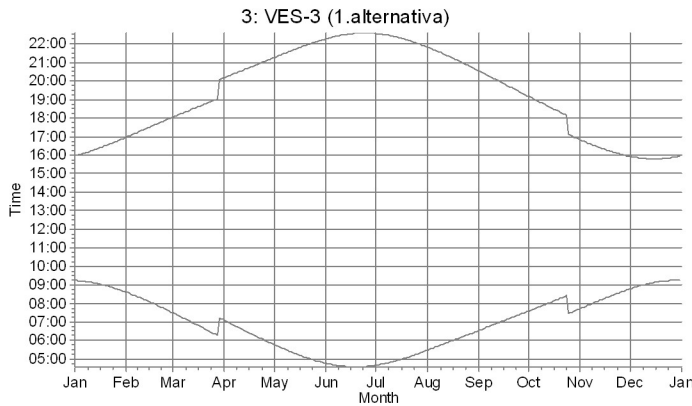
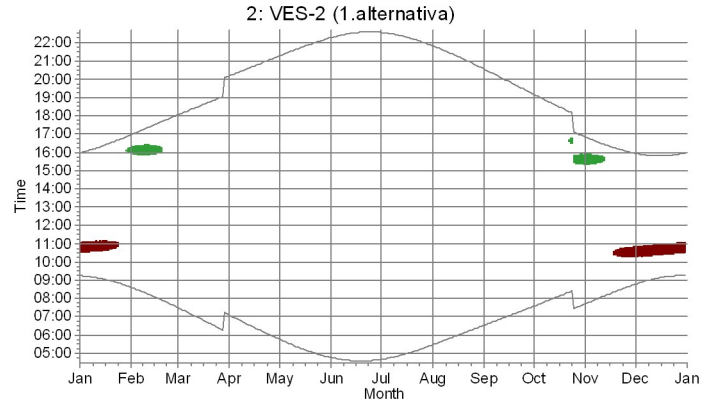
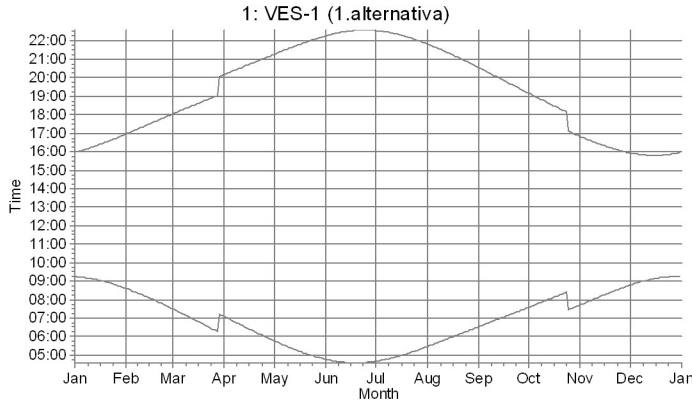
Main calendar table with columns for months (January-December) and rows for days (1-31). Includes sunrise/sunset times and potential sun hours.

Table 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



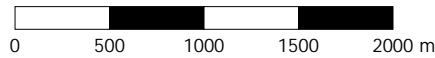
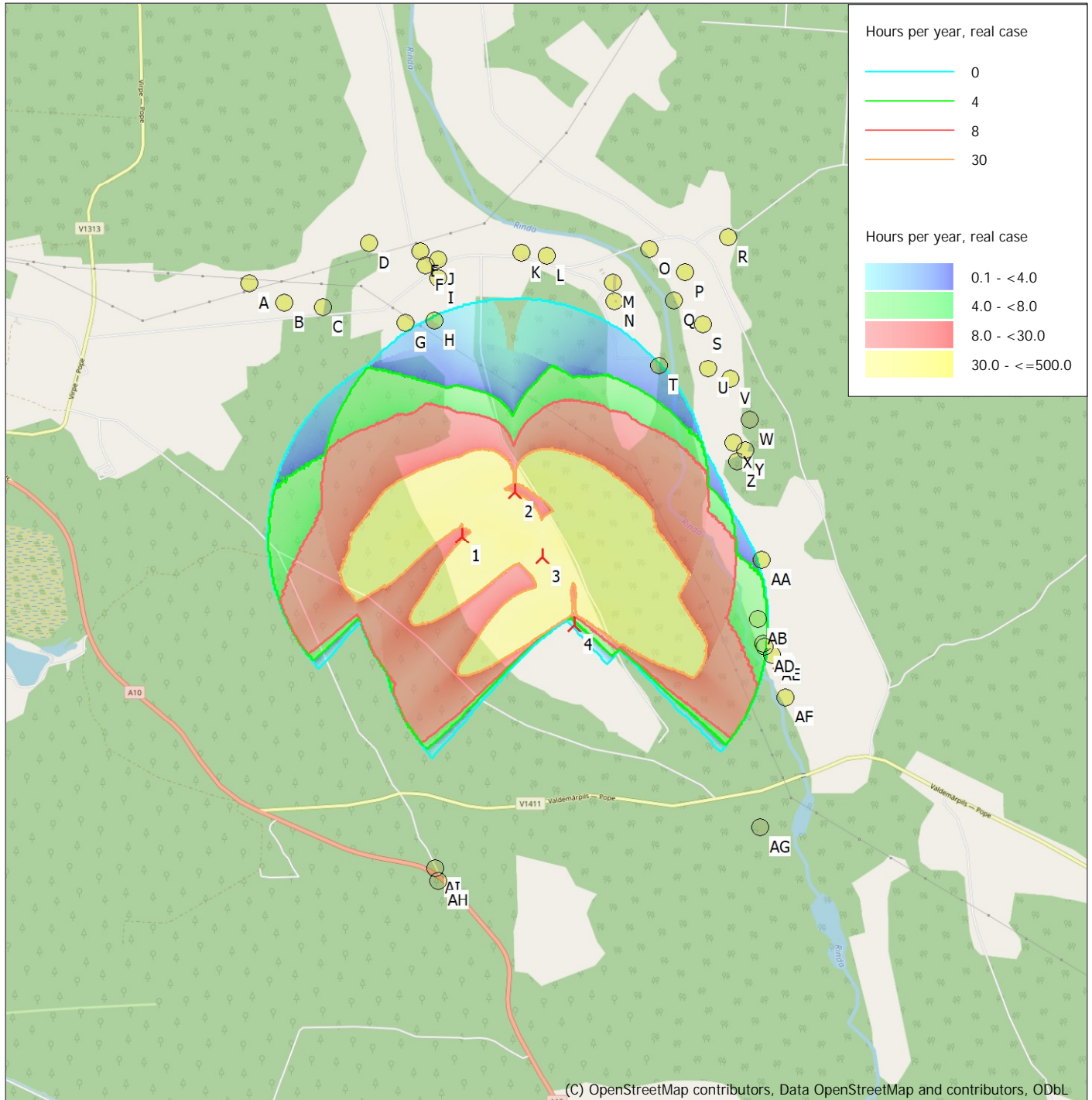
Shadow receptors

H: Shadow Receptor: Berenti
 T: Shadow Receptor: Tirumi

AB: Shadow Receptor: Dziri
 AC: Shadow Receptor: Ciekurini

AD: Shadow Receptor: Kraci

SHADOW - Map



Map: EMD OpenStreetMap , Print scale 1:40,000, Map center Latvian TM LKS92-LKS92 (LV) East: 374,930 North: 362,664

New WTG

Shadow receptor

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