

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

The calculated times are "worst case" given by the following assumptions:
The sun is shining all the day, from sunrise to sunset
The rotor plane is always perpendicular to the line from the WTG to the sun
The WTG is always operating

A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Project Wizard Elevation Data Grid (Czech Republic DTM - 20m grid)
Receptor grid resolution: 1,0 m
Topographic shadow included in calculation

All coordinates are in
Geo [deg]-WGS84

WTGs

	Longitude	Latitude	Z	Row data/Description	WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.					Calculation distance [m]	RPM [RPM]
1	15,966427° E	49,499399° N	550,1	V1	Yes	ENERCON	E-138 EP3 E3-4 260	4 260	138,3	91,0	1 691	11,1
2	15,966344° E	49,503236° N	547,7	V2	Yes	ENERCON	E-138 EP3 E3-4 260	4 260	138,3	91,0	1 691	11,1
3	15,965461° E	49,509942° N	547,1	V3	Yes	ENERCON	E-138 EP3 E3-4 260	4 260	138,3	91,0	1 691	11,1

Shadow receptor-Input

No.	Name	Longitude	Latitude	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
A	RB1	15,968671° E	49,515583° N	533,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
B	RB2	15,975848° E	49,511135° N	544,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
C	RB3	15,975983° E	49,510741° N	546,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
D	RB4	15,977865° E	49,509526° N	541,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
E	RB5	15,979255° E	49,509139° N	536,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
F	RB6	15,980183° E	49,508575° N	531,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
G	RB7	15,981739° E	49,507136° N	534,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
H	RB8	15,981336° E	49,505631° N	541,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
I	RB9	15,984539° E	49,503625° N	553,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
J	RB10	15,983090° E	49,502932° N	557,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
K	RB11	15,983933° E	49,492399° N	528,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
L	RB12	15,983557° E	49,492068° N	527,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
M	RB13	15,982704° E	49,491650° N	525,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
N	RB14	15,948055° E	49,493333° N	541,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
O	RB15	15,944413° E	49,494054° N	542,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
P	RB16	15,938775° E	49,500939° N	544,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case		
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
A	RB1	1:08	10	0:10
B	RB2	23:26	70	0:37
C	RB3	36:06	89	0:41
D	RB4	36:42	126	0:34

To be continued on next page...



New WTG

Shadow receptor

SHADOW - Main Result

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Shadow, worst case				
No.	Name	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
	E RB5	27:10	101	0:31
	F RB6	32:51	123	0:28
	G RB7	22:20	96	0:27
	H RB8	11:40	74	0:21
	I RB9	19:34	96	0:21
	J RB10	26:06	117	0:22
	K RB11	13:56	55	0:21
	L RB12	7:09	41	0:15
	M RB13	0:00	0	0:00
	N RB14	12:13	53	0:21
	O RB15	0:00	0	0:00
	P RB16	0:00	0	0:00

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

No.	Name	Worst case [h/year]
1	V1	54:04
2	V2	68:15
3	V3	95:08

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

SHADOW - Calendar

Shadow receptor: A - RB1

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:13	04:55 20:54	04:53 21:07	05:26 20:39	06:11 19:42	06:55 18:37	06:44 16:36	07:30 16:00	
2	07:53 16:08	07:29 16:53	06:39 17:40	06:34 19:28	05:34 20:14	04:55 20:55	04:54 21:07	05:28 20:37	06:12 19:40	06:56 18:35	06:45 16:35	07:31 16:00	
3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 19:30	05:33 20:16	04:54 20:56	04:55 21:06	05:29 20:36	06:14 19:38	06:58 18:33	06:47 16:33	07:33 15:59	
4	07:53 16:10	07:26 16:56	06:35 17:43	06:30 19:31	05:31 20:17	04:53 20:57	04:55 21:06	05:30 20:34	06:15 19:36	06:59 18:31	06:49 16:31	07:34 15:59	
5	07:53 16:11	07:24 16:58	06:33 17:44	06:27 19:33	05:29 20:19	04:53 20:58	04:56 21:06	05:32 20:33	06:17 19:33	07:01 18:29	06:50 16:30	07:35 15:58	
6	07:52 16:12	07:23 16:59	06:31 17:46	06:25 19:34	05:28 20:20	04:52 20:59	04:57 21:05	05:33 20:31	06:18 19:31	07:02 18:27	06:52 16:28	07:36 15:58	
7	07:52 16:13	07:21 17:01	06:29 17:48	06:23 19:36	05:26 20:22	04:52 20:59	04:58 21:05	05:35 20:29	06:20 19:29	07:04 18:25	06:53 16:27	07:38 15:58	
8	07:52 16:15	07:20 17:03	06:27 17:49	06:21 19:37	05:24 20:23	04:51 21:00	04:58 21:04	05:36 20:28	06:21 19:27	07:06 18:22	06:55 16:25	07:39 15:57	
9	07:51 16:16	07:18 17:04	06:25 17:51	06:19 19:39	05:23 20:24	04:51 21:01	04:59 21:04	05:37 20:26	06:23 19:25	07:07 18:20	06:57 16:24	07:40 15:57	
10	07:51 16:17	07:16 17:06	06:23 17:52	06:17 19:41	05:21 20:26	04:50 21:02	05:00 21:03	05:39 20:24	06:24 19:23	07:09 18:18	06:58 16:22	07:41 15:57	
11	07:51 16:19	07:15 17:08	06:21 17:54	06:15 19:42	05:20 20:27	04:50 21:02	05:01 21:02	05:40 20:23	06:25 19:21	07:10 18:16	07:00 16:21	07:42 15:57	
12	07:50 16:20	07:13 17:10	06:19 17:56	06:13 19:44	05:18 20:29	04:50 21:03	05:02 21:02	05:42 20:21	06:27 19:19	07:12 18:14	07:02 16:19	07:43 15:57	
13	07:49 16:21	07:11 17:11	06:17 17:57	06:11 19:45	05:17 20:30	04:50 21:04	05:03 21:01	05:43 20:19	06:28 19:16	07:13 18:12	07:03 16:18	07:44 15:57	
14	07:49 16:23	07:10 17:13	06:14 17:59	06:09 19:47	05:15 20:32	04:49 21:04	05:04 21:00	05:45 20:17	06:30 19:14	07:15 18:10	07:05 16:17	07:45 15:57	
15	07:48 16:24	07:08 17:15	06:12 18:00	06:07 19:48	05:14 20:33	04:49 21:05	05:05 20:59	05:46 20:15	06:31 19:12	07:16 18:08	07:06 16:15	07:46 15:57	
16	07:47 16:25	07:06 17:16	06:10 18:02	06:05 19:50	05:12 20:34	04:49 21:05	05:06 20:58	05:48 20:14	06:33 19:10	07:18 18:06	07:08 16:14	07:46 15:57	
17	07:47 16:27	07:04 17:18	06:08 18:03	06:03 19:51	05:11 20:36	04:49 21:06	05:07 20:57	05:49 20:12	06:34 19:08	07:19 18:04	07:10 16:13	07:47 15:57	13:24 (3)
18	07:46 16:28	07:03 17:20	06:06 18:05	06:01 19:53	05:10 20:37	04:49 21:06	05:09 20:56	05:50 20:10	06:36 19:05	07:21 18:02	07:11 16:12	07:48 15:58	13:25 (3)
19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 19:54	05:09 20:38	04:49 21:06	05:10 20:55	05:52 20:08	06:37 19:03	07:23 18:00	07:13 16:11	07:49 15:58	13:28 (3)
20	07:44 16:31	06:59 17:23	06:02 18:08	05:57 19:56	05:07 20:40	04:49 21:07	05:11 20:54	05:53 20:06	06:39 19:01	07:24 17:58	07:14 16:10	07:49 15:58	13:29 (3)
21	07:43 16:33	06:57 17:25	05:59 18:10	05:55 19:57	05:06 20:41	04:50 21:07	05:12 20:53	05:55 20:04	06:40 18:59	07:26 17:56	07:16 16:08	07:50 15:59	13:30 (3)
22	07:42 16:35	06:55 17:26	05:57 18:11	05:53 19:59	05:05 20:42	04:50 21:07	05:13 20:52	05:56 20:02	06:42 18:57	07:27 17:54	07:17 16:07	07:50 15:59	13:32 (3)
23	07:41 16:36	06:53 17:28	05:55 18:13	05:51 20:00	05:04 20:44	04:50 21:07	05:14 20:51	05:58 20:00	06:43 18:55	07:29 17:52	07:19 16:06	07:51 16:00	13:32 (3)
24	07:40 16:38	06:51 17:30	05:53 18:14	05:49 20:02	05:03 20:45	04:50 21:07	05:16 20:50	05:59 19:58	06:45 18:52	07:31 17:51	07:20 16:06	07:51 16:00	13:32 (3)
25	07:39 16:39	06:49 17:31	05:51 18:16	05:47 20:03	05:02 20:46	04:51 21:08	05:17 20:48	06:01 19:56	06:46 18:50	06:32 16:49	07:22 16:05	07:52 16:01	13:32 (3)
26	07:38 16:41	06:47 17:33	05:49 18:17	05:45 20:05	05:01 20:47	04:51 21:08	05:18 20:47	06:02 19:54	06:47 18:48	06:34 16:47	07:23 16:04	07:52 16:02	13:32 (3)
27	07:37 16:43	06:45 17:35	05:47 18:19	05:43 20:07	05:00 20:48	04:51 21:08	05:20 20:46	06:04 19:52	06:49 18:46	06:35 16:45	07:25 16:03	07:52 16:02	13:30 (3)
28	07:35 16:44	06:43 17:36	05:44 18:21	05:42 20:08	04:59 20:50	04:52 21:07	05:21 20:45	06:05 19:50	06:50 18:44	06:37 16:43	07:26 16:02	07:53 16:03	
29	07:34 16:46		06:42 19:22	05:40 20:10	04:58 20:51	04:52 21:07	05:22 20:43	06:07 19:48	06:52 18:42	06:39 16:41	07:27 16:02	07:53 16:04	
30	07:33 16:48		06:40 19:24	05:38 20:11	04:57 20:52	04:53 21:07	05:24 20:42	06:08 19:46	06:53 18:39	06:40 16:40	07:29 16:01	07:53 16:05	
31	07:31 16:49		06:38 19:25		04:56 20:53		05:25 20:40	06:09 19:44		06:42 16:38		07:53 16:06	
Potential sun hours	269	283	368	411	475	486	490	447	379	335	275	256	
Total, worst case													68

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

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

Project: Sazomin
Description: Sazomin

Licensed user:
Integra Consulting Ltd.
Sudoměřská 1243/25
CZ-130 00 Praha 3
+420 724 110 779
Integra Consulting / windpro@integracons.com
Calculated:
30.05.2025 11:03/4.1.273

SHADOW - Calendar

Shadow receptor: B - RB2

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

The sun is shining all the day, from sunrise to sunset

The rotor plane is always perpendicular to the line from the WTG to the sun

The WTG is always operating

	January		February		March		April		May		June		July		August		September		October		November		December	
1	07:53	14:50 (2)	07:30	06:41		06:36	05:36	04:55	04:53	05:26	06:11		06:55	17:38 (3)	06:44	07:30								
2	16:07	5 14:55 (2)	16:51	17:38		19:27	20:13	20:54	21:07	20:39	19:42		18:37	18	17:56 (3)	16:36	16:00							
3	07:53		07:29	06:39		06:34	05:34	04:55	04:54	05:28	06:12		06:56	16	17:38 (3)	06:45	07:31							
4	16:08		16:53	17:39		19:28	20:14	20:55	21:07	20:37	19:40		18:35		17:54 (3)	16:35	16:00							
5	07:53		07:27	06:37		06:32	05:33	04:54	04:55	05:29	06:14		06:58		17:39 (3)	06:47	07:33							
6	16:09		16:54	17:41		19:30	20:16	20:56	21:06	20:36	19:38		18:33	13	17:52 (3)	16:33	15:59							
7	07:53		07:26	06:35		06:29	05:31	04:53	04:55	05:30	06:15		06:59		17:39 (3)	06:48	07:34							
8	16:10		16:56	17:43		19:31	20:17	20:57	21:06	20:34	19:36		18:31	10	17:49 (3)	16:31	15:59							
9	07:53		07:24	06:33		06:27	05:29	04:53	04:56	05:32	06:17		07:01		17:41 (3)	06:50	07:35							
10	16:11		16:58	17:44		19:33	20:19	20:58	21:06	20:33	19:33		18:29	7	17:48 (3)	16:30	15:58							
11	07:52		07:23	06:31		06:25	05:28	04:52	04:57	05:33	06:18		07:02		17:41 (3)	06:52	07:36							
12	16:12		16:59	17:46		19:34	20:20	20:59	21:05	20:31	19:31		18:27	4	17:45 (3)	16:28	15:58							
13	07:52		07:21	06:29		17:06 (3)	06:23	05:26	04:52	04:58	05:35	06:20	07:04			06:53	07:38							
14	16:13		17:01	17:48	2	17:08 (3)	19:36	20:21	20:59	21:05	20:29	19:29	18:25			16:27	15:58							
15	07:52		07:20	06:27		17:04 (3)	06:21	05:24	04:51	04:58	05:36	06:21	07:06			06:55	07:39							
16	16:15		17:03	17:49	6	17:10 (3)	19:37	20:23	21:00	21:04	20:28	19:27	18:22			16:25	15:57							
17	07:51		07:18	06:25		17:03 (3)	06:19	05:23	04:51	04:59	05:37	06:23	07:07			06:57	07:40							
18	16:16		17:04	17:51	9	17:12 (3)	19:39	20:24	21:01	21:04	20:26	19:25	18:20			16:24	15:57							
19	07:51		07:16	06:23		17:02 (3)	06:17	05:21	04:50	05:00	05:39	06:24	07:09			06:58	07:41							
20	16:17		17:06	17:52	11	17:13 (3)	19:41	20:26	21:02	21:03	20:24	19:23	18:18			16:22	15:57							
21	07:51		07:15	06:21		16:59 (3)	06:15	05:20	04:50	05:01	05:40	06:25	07:10			07:00	07:42						14:41 (2)	
22	16:18		17:08	17:54	15	17:14 (3)	19:42	20:27	21:02	21:02	20:23	19:21	18:16			16:21	15:57	3					14:44 (2)	
23	07:50		07:13	06:19		16:59 (3)	06:13	05:18	04:50	05:02	05:42	06:27	07:12			07:01	07:43						14:39 (2)	
24	16:20		17:10	17:56	17	17:16 (3)	19:44	20:29	21:03	21:02	20:21	19:18	18:14			06:19	15:57	8					14:47 (2)	
25	07:49		07:11	06:17		16:58 (3)	06:11	05:17	04:50	05:03	05:43	06:28	17:59 (3)	9	07:13	07:03	07:44						14:39 (2)	
26	16:21		17:11	17:57	20	17:18 (3)	19:45	20:30	21:04	21:01	20:19	19:16	18:08 (3)		18:12	07:18	15:57	9					14:48 (2)	
27	07:49		07:10	06:14		16:57 (3)	06:09	05:15	04:49	05:04	05:45	06:30	17:55 (3)		07:15	07:05	07:45						14:39 (2)	
28	16:23		17:13	17:59	22	17:19 (3)	19:47	20:32	21:04	21:00	20:17	19:14	18:13 (3)	18	18:13 (3)	18:10	15:57						14:50 (2)	
29	07:48		07:08	06:12		16:57 (3)	06:07	05:14	04:49	05:05	05:46	06:31	17:51 (3)		07:16	07:06	07:46						14:39 (2)	
30	16:24		17:15	18:00	24	17:21 (3)	19:48	20:33	21:05	20:59	20:15	19:12	18:15 (3)	24	18:15 (3)	18:08	15:57	12					14:51 (2)	
31	07:47		07:06	06:10		16:56 (3)	06:05	05:12	04:49	05:06	05:48	06:33	17:50 (3)		07:18	07:08	07:46						14:38 (2)	
32	16:25		17:16	18:02	27	17:23 (3)	19:50	20:34	21:05	20:58	20:14	19:10	18:17 (3)	27	18:17 (3)	18:06	15:57	13					14:51 (2)	
33	07:47		07:04	06:08		16:56 (3)	06:03	05:11	04:49	05:07	05:49	06:34	17:47 (3)		07:19	07:09	07:47						14:38 (2)	
34	16:27		17:18	18:03	28	17:24 (3)	19:51	20:36	21:06	20:57	20:12	19:08	18:17 (3)	30	18:17 (3)	18:04	15:57	14					14:52 (2)	
35	07:46		07:02	06:06		16:55 (3)	06:01	05:10	04:49	05:09	05:50	06:36	17:46 (3)		07:21	07:11	07:48						14:39 (2)	
36	16:28		17:20	18:05	30	17:25 (3)	19:53	20:37	21:06	20:56	20:10	19:05	18:19 (3)	33	18:19 (3)	18:02	15:58	14					14:53 (2)	
37	07:45		07:01	06:04		16:55 (3)	05:59	05:09	04:49	05:10	05:52	06:37	17:44 (3)		07:23	07:13	07:49						14:38 (2)	
38	16:30		17:21	18:07	32	17:27 (3)	19:54	20:38	21:06	20:55	20:08	19:03	18:19 (3)	35	18:19 (3)	18:00	15:58	15					14:53 (2)	
39	07:44		06:59	06:02		16:55 (3)	05:57	05:07	04:49	05:11	05:53	06:39	17:42 (3)		07:24	07:14	07:49						14:39 (2)	
40	16:31		17:23	18:08	34	17:29 (3)	19:56	20:40	21:07	20:54	20:06	19:01	18:19 (3)	37	18:19 (3)	17:58	15:58	15					14:54 (2)	
41	07:43		06:57	05:59		16:56 (3)	05:55	05:06	04:49	05:12	05:55	06:40	17:42 (3)		07:26	07:16	07:50						14:40 (2)	
42	16:33		17:25	18:10	34	17:30 (3)	19:57	20:41	21:07	20:53	20:04	18:59	18:18 (3)	36	18:18 (3)	17:56	15:58	15					14:55 (2)	
43	07:42		06:55	05:57		16:56 (3)	05:53	05:05	04:50	05:13	05:56	06:42	17:40 (3)		07:27	07:17	07:50						14:40 (2)	
44	16:35		17:26	18:11	36	17:32 (3)	19:59	20:42	21:07	20:52	20:02	18:57	18:15 (3)	35	18:15 (3)	17:54	15:57						14:45 (2)	
45	07:41		06:53	05:55		16:57 (3)	05:51	05:04	04:50	05:14	05:58	06:43	17:40 (3)		07:29	07:19	07:51						14:40 (2)	
46	16:36		17:28	18:13	37	17:34 (3)	20:00	20:44	21:07	20:51	20:00	18:55	18:14 (3)	34	18:14 (3)	17:52	15:59						14:55 (2)	
47	07:40		06:51	05:53		16:56 (3)	05:49	05:03	04:50	05:16	05:59	06:44	17:39 (3)		07:31	07:20	07:51						14:41 (2)	
48	16:38		17:30	18:14	36	17:32 (3)	20:02	20:45	21:07	20:50	19:58	18:52	18:11 (3)	32	18:11 (3)	17:51	15:59	15					14:56 (2)	
49	07:39		06:49	05:51		16:57 (3)	05:47	05:02	04:51	05:17	06:01	06:46	17:39 (3)		06:32	07:22	07:52						14:41 (2)	
50	16:39		17:31	18:16	34	17:31 (3)	20:03	20:46	21:07	20:48	19:56	18:50	18:09 (3)	30	18:09 (3)	16:49	15:56	15					14:56 (2)	
51	07:38		06:47	05:49		16:58 (3)	05:45	05:01	04:51	05:18	06:02	06:47	17:38 (3)		06:34	07:23	07:52						14:42 (2)	
52	16:41		17:33	18:17	31	17:29 (3)	20:05	20:47	21:07	20:47	19:54	18:48	18:07 (3)	29	18:07 (3)	16:47	15:56	14					14:56 (2)	
53	07:37		06:45	05:47		17:00 (3)	05:43	05:00	04:51	05:20	06:04	06:49	17:38 (3)		06:35	07:25	07:52						14:43 (2)	
54	16:43		17:35	18:19	28	17:28 (3)	20:06	20:48	21:07	20:46	19:52	18:46	18:05 (3)	27	18:05 (3)	16:45	15:56	14					14:57 (2)	
55	07:35		06:43	05:44		17:02 (3)	05:41	04:59	04:52	05:21	06:05	06:50	17:37 (3)		06:37	07:26	07:53						14:44 (2)	
56	16:44		17:36	18:21	24	17:26 (3)	20:08	20:49	21:07	20:44	19:50	18:44	18:02 (3)	25	18:02 (3)	16:43	15:57						14:57 (2)	
57	07:34		06:42	05:42		18:04 (3)	05:40	04:58	04:52	05:22	06:06	06:52	17:38 (3)		06:39	07:27	07:53						14:45 (2)	
58	16:46		17:22	18:19	19	18:23 (3)	20:10	20:51	21:07	20:43	19:48	18:42	18:01 (3)	23	18:01 (3)	16:42	15:57	12					14:57 (2)	
59	07:33		06:40	05:40		18:08 (3)	05:38	04:57	04:53	05:24	06:08	06:53	17:37 (3)		06:40	07:29	07:53						14:46 (2)	
60	16:48		17:24	18:19	11	18:19 (3)	20:11	20:52	21:07	20:42	19:46	18:39	17:58 (3)	21	17:58 (3)	16:40	15:56						14:57 (2)	
61	07:31		06:38	05:38		04:56	05:25	04:56	05:25	06:09	06:42	07:01	16:05			07:53	11						14:48 (2)	
62	16:49																							

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

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

SHADOW - Calendar

Shadow receptor: C - RB3

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

The sun is shining all the day, from sunrise to sunset

The rotor plane is always perpendicular to the line from the WTG to the sun

The WTG is always operating

January			February			March			April			May			June		
1	07:53		14:49 (2)	07:30		06:41			06:36			18:08 (3)	05:36		04:55		
	16:07	22	15:11 (2)	07:51		17:38			19:27		29	18:37 (3)	20:13		20:54		
2	07:53		14:50 (2)	07:29		06:39			06:34			18:10 (3)	05:34		04:55		
	16:08	21	15:11 (2)	06:53		17:39			19:28		25	18:35 (3)	20:14		20:55		
3	07:53		14:50 (2)	07:27		06:37			06:32			18:12 (3)	05:33		04:54		
	16:09	20	15:10 (2)	06:54		17:41			19:30		20	18:32 (3)	20:16		20:56		
4	07:53		14:51 (2)	07:26		06:35			06:29			18:16 (3)	05:31		04:53		
	16:10	19	15:10 (2)	06:56		17:43			19:31		12	18:28 (3)	20:17		20:57		
5	07:53		14:53 (2)	07:24		06:33			06:27				05:29		04:53		
	16:11	17	15:10 (2)	06:58		17:44			19:33				20:19		20:58		
6	07:52		14:53 (2)	07:23		06:31			06:25				05:28		04:52		
	16:12	16	15:09 (2)	06:59		17:46			19:34				20:20		20:59		
7	07:52		14:55 (2)	07:21		06:29			06:23				05:26		04:52		
	16:13	14	15:09 (2)	07:01		17:48			19:36				20:21		20:59		
8	07:52		14:57 (2)	07:20		06:27			06:21				05:24		04:51		
	16:15	10	15:07 (2)	07:03		17:49			19:37				20:23		21:00		
9	07:51		15:00 (2)	07:18		06:25			06:19				05:23		04:51		
	16:16	6	15:06 (2)	07:04		17:51			19:39				20:24		21:01		
10	07:51			07:16		06:23			06:17				05:21		04:50		
	16:17			07:06		17:52			19:41				20:26		21:02		
11	07:51			07:15		06:21		17:18 (3)	06:15				05:20		04:50		
	16:18			07:08		17:54	5	17:23 (3)	19:42				20:27		21:02		
12	07:50			07:13		06:19		17:16 (3)	06:13				05:18		04:50		
	16:20			07:10		17:56	9	17:25 (3)	19:44				20:29		21:03		
13	07:49			07:11		06:17		17:14 (3)	06:11				05:17		04:50		
	16:21			07:11		17:57	13	17:27 (3)	19:45				20:30		21:04		
14	07:49			07:10		06:14		17:12 (3)	06:09				05:15		04:49		
	16:23			07:13		17:59	17	17:29 (3)	19:47				20:32		21:04		
15	07:48			07:08		06:12		17:11 (3)	06:07				05:14		04:49		
	16:24			07:15		18:00	19	17:30 (3)	19:48				20:33		21:05		
16	07:47			07:06		06:10		17:10 (3)	06:05				05:12		04:49		
	16:25			07:16		18:02	22	17:32 (3)	19:50				20:34		21:05		
17	07:47			07:04		06:08		17:09 (3)	06:03				05:11		04:49		
	16:27			07:18		18:03	25	17:34 (3)	19:51				20:36		21:06		
18	07:46			07:02		06:06		17:07 (3)	06:01				05:10		04:49		
	16:28			07:20		18:05	28	17:35 (3)	19:53				20:37		21:06		
19	07:45			07:01		06:04		17:06 (3)	05:59				05:09		04:49		
	16:30			07:21		18:07	30	17:36 (3)	19:54				20:38		21:06		
20	07:44			06:59		06:02		17:06 (3)	05:57				05:07		04:49		
	16:31			07:23		18:08	32	17:38 (3)	19:56				20:40		21:07		
21	07:43			06:57		05:59		17:05 (3)	05:55				05:06		04:49		
	16:33			07:25		18:10	35	17:40 (3)	19:57				20:41		21:07		
22	07:42			06:55		05:57		17:05 (3)	05:53				05:05		04:50		
	16:35			07:26		18:11	36	17:41 (3)	19:59				20:42		21:07		
23	07:41			06:53		05:55		17:05 (3)	05:51				05:04		04:50		
	16:36			07:28		18:13	38	17:43 (3)	20:00				20:44		21:07		
24	07:40			06:51		05:53		17:04 (3)	05:49				05:03		04:50		
	16:38			07:30		18:14	40	17:44 (3)	20:02				20:45		21:07		
25	07:39			06:49		05:51		17:04 (3)	05:47				05:02		04:51		
	16:39			07:31		18:16	41	17:45 (3)	20:03				20:46		21:07		
26	07:38			06:47		05:49		17:05 (3)	05:45				05:01		04:51		
	16:41			07:33		18:17	39	17:44 (3)	20:05				20:47		21:07		
27	07:37			06:45		05:47		17:05 (3)	05:43				05:00		04:51		
	16:43			07:35		18:19	39	17:44 (3)	20:06				20:48		21:07		
28	07:35			06:43		05:44		17:05 (3)	05:41				04:59		04:52		
	16:44			07:36		18:21	38	17:43 (3)	20:08				20:49		21:07		
29	07:34					06:42		18:06 (3)	05:40				04:58		04:52		
	16:46					19:22	36	18:42 (3)	20:10				20:51		21:07		
30	07:33					06:40		18:07 (3)	05:38				04:57		04:53		
	16:48					19:24	34	18:41 (3)	20:11				20:52		21:07		
31	07:31					06:38		18:07 (3)					04:56				
	16:49					19:25	31	18:38 (3)					20:53				
Potential sun hours	269			283		368		411					475		486		
Total, worst case	145					607		86									

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

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

SHADOW - Calendar

Shadow receptor: C - RB3

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	04:53	05:26	06:11	06:55	17:55 (3)	06:44	07:30	
	21:07	20:39	19:42	18:37	11 18:06 (3)	16:36	16:00	
2	04:54	05:28	06:12	06:56	17:56 (3)	06:45	07:31	
	21:07	20:37	19:40	18:35	7 18:03 (3)	16:35	16:00	
3	04:55	05:29	06:14	06:58	17:59 (3)	06:47	07:33	
	21:06	20:36	19:38	18:33	2 18:01 (3)	16:33	15:59	6 14:43 (2)
4	04:55	05:30	06:15	06:59		06:48	07:34	14:42 (2)
	21:06	20:34	19:36	18:31		16:31	15:59	10 14:52 (2)
5	04:56	05:32	06:17	07:01		06:50	07:35	14:41 (2)
	21:06	20:33	19:33	18:29		16:30	15:58	13 14:54 (2)
6	04:57	05:33	06:18	07:02		06:52	07:36	14:40 (2)
	21:05	20:31	19:31	18:27		16:28	15:58	15 14:55 (2)
7	04:58	05:35	06:20	07:04		06:53	07:38	14:39 (2)
	21:05	20:29	19:29	18:25		16:27	15:58	17 14:56 (2)
8	04:58	05:36	06:21	18:10 (3)	07:06	06:55	07:39	14:39 (2)
	21:04	20:28	19:27	18:22 (3)	18:22	16:25	15:57	19 14:58 (2)
9	04:59	05:37	06:23	18:07 (3)	07:07	06:57	07:40	14:39 (2)
	21:04	20:26	19:25	18:26 (3)	18:20	16:24	15:57	20 14:59 (2)
10	05:00	05:39	06:24	18:04 (3)	07:09	06:58	07:41	14:39 (2)
	21:03	20:24	19:23	18:28 (3)	18:18	16:22	15:57	21 15:00 (2)
11	05:01	05:40	06:25	18:02 (3)	07:10	07:00	07:42	14:39 (2)
	21:02	20:23	19:21	18:30 (3)	18:16	16:21	15:57	22 15:01 (2)
12	05:02	05:42	06:27	18:00 (3)	07:12	07:01	07:43	14:39 (2)
	21:02	20:21	19:18	18:30 (3)	18:14	16:19	15:57	22 15:01 (2)
13	05:03	05:43	06:28	17:57 (3)	07:13	07:03	07:44	14:39 (2)
	21:01	20:19	19:16	18:31 (3)	18:12	16:18	15:57	23 15:02 (2)
14	05:04	05:45	06:30	17:57 (3)	07:15	07:05	07:45	14:39 (2)
	21:00	20:17	19:14	18:32 (3)	18:10	16:17	15:57	24 15:03 (2)
15	05:05	05:46	06:31	17:55 (3)	07:16	07:06	07:46	14:40 (2)
	20:59	20:15	19:12	18:32 (3)	18:08	16:15	15:57	24 15:04 (2)
16	05:06	05:48	06:33	17:54 (3)	07:18	07:08	07:46	14:39 (2)
	20:58	20:14	19:10	18:33 (3)	18:06	16:14	15:57	25 15:04 (2)
17	05:07	05:49	06:34	17:53 (3)	07:19	07:09	07:47	14:40 (2)
	20:57	20:12	19:08	18:33 (3)	18:04	16:13	15:57	25 15:05 (2)
18	05:09	05:50	06:36	17:53 (3)	07:21	07:11	07:48	14:40 (2)
	20:56	20:10	19:05	18:33 (3)	18:02	16:12	15:58	25 15:05 (2)
19	05:10	05:52	06:37	17:52 (3)	07:23	07:13	07:49	14:40 (2)
	20:55	20:08	19:03	18:31 (3)	18:00	16:11	15:58	25 15:05 (2)
20	05:11	05:53	06:39	17:51 (3)	07:24	07:14	07:49	14:41 (2)
	20:54	20:06	19:01	18:29 (3)	17:58	16:09	15:58	25 15:06 (2)
21	05:12	05:55	06:40	17:51 (3)	07:26	07:16	07:50	14:42 (2)
	20:53	20:04	18:59	18:27 (3)	17:56	16:08	15:59	25 15:07 (2)
22	05:13	05:56	06:42	17:50 (3)	07:27	07:17	07:50	14:42 (2)
	20:52	20:02	18:57	18:25 (3)	17:54	16:07	15:59	25 15:07 (2)
23	05:14	05:58	06:43	17:50 (3)	07:29	07:19	07:51	14:42 (2)
	20:51	20:00	18:55	18:23 (3)	17:52	16:06	16:00	25 15:07 (2)
24	05:16	05:59	06:44	17:50 (3)	07:31	07:20	07:51	14:43 (2)
	20:50	19:58	18:52	18:20 (3)	17:51	16:06	16:00	25 15:08 (2)
25	05:17	06:01	06:46	17:50 (3)	06:32	07:22	07:52	14:43 (2)
	20:48	19:56	18:50	18:19 (3)	16:49	16:05	16:01	25 15:08 (2)
26	05:18	06:02	06:47	17:50 (3)	06:34	07:23	07:52	14:44 (2)
	20:47	19:54	18:48	18:16 (3)	16:47	16:04	16:02	24 15:08 (2)
27	05:20	06:04	06:49	17:51 (3)	06:35	07:25	07:52	14:45 (2)
	20:46	19:52	18:46	18:14 (3)	16:45	16:03	16:02	25 15:10 (2)
28	05:21	06:05	06:50	17:51 (3)	06:37	07:26	07:53	14:46 (2)
	20:44	19:50	18:44	18:12 (3)	16:43	16:02	16:03	24 15:10 (2)
29	05:22	06:06	06:52	17:52 (3)	06:39	07:27	07:53	14:46 (2)
	20:43	19:48	18:42	18:10 (3)	16:41	16:02	16:04	24 15:10 (2)
30	05:24	06:08	06:53	17:53 (3)	06:40	07:29	07:53	14:47 (2)
	20:42	19:46	18:39	18:07 (3)	16:40	16:01	16:05	23 15:10 (2)
31	05:25	06:09			06:42		07:53	14:48 (2)
	20:40	19:44			16:38		16:06	22 15:10 (2)
Potential sun hours	490	447	379	335	275	256		
Total, worst case			680	20		628		

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

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

Shadow receptor: D - RB4

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

January			February			March			April			May			June		
1	07:53		15:26 (2)	07:30		15:40 (2)	06:41		06:36		18:37 (3)	05:36		04:55			
	16:07	5	15:31 (2)	16:51	13	15:53 (2)	17:38		19:27	15	18:52 (3)	20:13		20:54			
2	07:53		15:26 (2)	07:29		15:45 (2)	06:39		06:34		18:36 (3)	05:34		04:55			
	16:08	6	15:32 (2)	16:53	5	15:50 (2)	17:39		19:28	18	18:54 (3)	20:14		20:55			
3	07:53		15:25 (2)	07:27			06:37		06:32		18:35 (3)	05:33		04:54			
	16:09	8	15:33 (2)	16:54			17:41		19:30	21	18:56 (3)	20:16		20:56			
4	07:53		15:26 (2)	07:26			06:35		06:29		18:35 (3)	05:31		04:53			
	16:10	8	15:34 (2)	16:56			17:43		19:31	22	18:57 (3)	20:17		20:57			
5	07:53		15:26 (2)	07:24			06:33		06:27		18:34 (3)	05:29		04:53			
	16:11	9	15:35 (2)	16:58			17:44		19:33	25	18:59 (3)	20:19		20:58			
6	07:52		15:26 (2)	07:23			06:31		06:25		18:34 (3)	05:28		04:52			
	16:12	10	15:36 (2)	16:59			17:46		19:34	27	19:01 (3)	20:20		20:58			
7	07:52		15:26 (2)	07:21			06:29		06:23		18:34 (3)	05:26		04:52			
	16:13	11	15:37 (2)	17:01			17:48		19:36	29	19:03 (3)	20:21		20:59			
8	07:52		15:26 (2)	07:20			06:27		06:21		18:34 (3)	05:24		04:51			
	16:15	12	15:38 (2)	17:03			17:49		19:37	30	19:04 (3)	20:23		21:00			
9	07:51		15:26 (2)	07:18			06:25		06:19		18:33 (3)	05:23		04:51			
	16:16	14	15:40 (2)	17:04			17:51		19:39	32	19:05 (3)	20:24		21:01			
10	07:51		15:26 (2)	07:16			06:23		06:17		18:33 (3)	05:21		04:50			
	16:17	15	15:41 (2)	17:06			17:52		19:40	34	19:07 (3)	20:26		21:02			
11	07:51		15:27 (2)	07:15			06:21		06:15		18:34 (3)	05:20		04:50			
	16:18	15	15:42 (2)	17:08			17:54		19:42	32	19:06 (3)	20:27		21:02			
12	07:50		15:27 (2)	07:13			06:19		06:13		18:34 (3)	05:18		04:50			
	16:20	16	15:43 (2)	17:10			17:56		19:44	31	19:05 (3)	20:29		21:03			
13	07:49		15:26 (2)	07:11			06:17		06:11		18:35 (3)	05:17		04:50			
	16:21	19	15:45 (2)	17:11			17:57		19:45	29	19:04 (3)	20:30		21:04			
14	07:49		15:27 (2)	07:10			06:14		06:09		18:36 (3)	05:15		04:49			
	16:23	20	15:47 (2)	17:13			17:59		19:47	26	19:02 (3)	20:32		21:04			
15	07:48		15:27 (2)	07:08			06:12		06:07		18:37 (3)	05:14		04:49			
	16:24	21	15:48 (2)	17:15			18:00		19:48	24	19:01 (3)	20:33		21:05			
16	07:47		15:27 (2)	07:06			06:10		06:05		18:39 (3)	05:12		04:49			
	16:25	22	15:49 (2)	17:16			18:02		19:50	20	18:59 (3)	20:34		21:05			
17	07:47		15:28 (2)	07:04			06:08		06:03		18:41 (3)	05:11		04:49			
	16:27	22	15:50 (2)	17:18			18:03		19:51	15	18:56 (3)	20:36		21:06			
18	07:46		15:28 (2)	07:02			06:06		06:01		18:45 (3)	05:10		04:49			
	16:28	24	15:52 (2)	17:20			18:05		19:53	7	18:52 (3)	20:37		21:06			
19	07:45		15:28 (2)	07:01			06:04		05:59			05:09		04:49			
	16:30	25	15:53 (2)	17:21			18:07		19:54			20:38		21:06			
20	07:44		15:29 (2)	06:59			06:02		05:57			05:07		04:49			
	16:31	26	15:55 (2)	17:23			18:08		19:56			20:40		21:07			
21	07:43		15:29 (2)	06:57			05:59		05:55			05:06		04:49			
	16:33	28	15:57 (2)	17:25			18:10		19:57			20:41		21:07			
22	07:42		15:30 (2)	06:55			05:57		05:53			05:05		04:50			
	16:35	28	15:58 (2)	17:26			18:11		19:59			20:42		21:07			
23	07:41		15:30 (2)	06:53			05:55		05:51			05:04		04:50			
	16:36	30	16:00 (2)	17:28			18:13		20:00			20:43		21:07			
24	07:40		15:30 (2)	06:51			05:53		05:49			05:03		04:50			
	16:38	30	16:00 (2)	17:30			18:14		20:02			20:45		21:07			
25	07:39		15:31 (2)	06:49			05:51		05:47			05:02		04:51			
	16:39	29	16:00 (2)	17:31			18:16		20:03			20:46		21:07			
26	07:38		15:32 (2)	06:47			05:49		05:45			05:01		04:51			
	16:41	28	16:00 (2)	17:33			18:17		20:05			20:47		21:07			
27	07:37		15:32 (2)	06:45			05:47		05:43			05:00		04:51			
	16:43	27	15:59 (2)	17:35			18:19		20:06			20:48		21:07			
28	07:35		15:34 (2)	06:43			05:44		05:41			04:59		04:52			
	16:44	24	15:58 (2)	17:36			18:20	2	17:44 (3)		20:08	20:49		21:07			
29	07:34		15:35 (2)				06:42		18:42 (3)		05:40		04:58	04:52			
	16:46	23	15:58 (2)				19:22	6	18:48 (3)		20:10		20:51	21:07			
30	07:33		15:36 (2)				06:40		18:40 (3)		05:38		04:57	04:53			
	16:48	20	15:56 (2)				19:24	10	18:50 (3)		20:11		20:52	21:07			
31	07:31		15:39 (2)				06:38		18:38 (3)				04:56				
	16:49	17	15:56 (2)				19:25	12	18:50 (3)				20:53				
Potential sun hours	269			283			368		411			475		486			
Total, worst case	592			18			30		437								

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

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

SHADOW - Calendar

Shadow receptor: D - RB4

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	04:53 21:07	05:26 20:39	06:11 19:42	18:34 (3) 18:37	06:55 16:36	07:30 15:25 (2)
2	04:54 21:07	05:28 20:37	06:12 19:40	18:32 (3) 18:35	06:56 16:35	07:31 15:24 (2)
3	04:55 21:06	05:29 20:36	06:14 19:38	18:31 (3) 19:03 (3)	06:58 16:33	07:33 15:23 (2)
4	04:55 21:06	05:30 20:34	06:15 19:36	18:31 (3) 19:01 (3)	06:59 16:31	07:34 15:23 (2)
5	04:56 21:06	05:32 20:33	06:17 19:33	18:30 (3) 18:59 (3)	07:01 16:30	07:35 15:23 (2)
6	04:57 21:05	05:33 20:31	06:18 19:31	18:30 (3) 18:57 (3)	07:02 16:28	07:36 15:22 (2)
7	04:58 21:05	05:35 20:29	06:20 19:29	18:30 (3) 18:54 (3)	07:04 16:27	07:38 15:21 (2)
8	04:58 21:04	05:36 20:28	06:21 19:27	18:29 (3) 18:52 (3)	07:06 16:25	07:39 15:22 (2)
9	04:59 21:04	05:37 20:26	06:23 19:25	18:30 (3) 18:50 (3)	07:07 16:24	07:40 15:22 (2)
10	05:00 21:03	05:39 20:24	06:24 19:23	18:29 (3) 18:47 (3)	07:09 16:22	07:41 15:22 (2)
11	05:01 21:02	05:40 20:23	06:25 19:21	18:30 (3) 18:46 (3)	07:10 16:21	07:42 15:21 (2)
12	05:02 21:02	05:43 20:21	06:27 19:18	18:30 (3) 18:43 (3)	07:12 16:19	07:43 15:21 (2)
13	05:03 21:01	05:43 20:19	06:28 19:16	07:13 18:40 (3)	16:18 18:12	07:44 15:21 (2)
14	05:04 21:00	05:45 20:17	06:30 19:14	07:15 18:38 (3)	07:05 16:17	07:45 15:22 (2)
15	05:05 20:59	05:46 20:15	06:31 19:12	07:16 18:36 (3)	07:06 16:15	07:46 15:22 (2)
16	05:06 20:58	05:48 20:14	06:33 19:10	07:18 18:06	07:08 16:14	07:46 15:21 (2)
17	05:07 20:57	05:49 20:12	06:34 19:08	07:19 18:04	07:09 16:13	07:47 15:22 (2)
18	05:09 20:56	05:50 20:10	06:36 19:05	07:21 18:02	07:11 16:12	07:48 15:22 (2)
19	05:10 20:55	05:52 20:08	06:37 19:03	07:23 18:00	07:13 16:11	07:49 15:22 (2)
20	05:11 20:54	05:53 20:06	06:39 19:01	07:24 17:58	07:14 16:09	07:49 15:58
21	05:12 20:53	05:55 20:04	06:40 18:59	07:26 17:56	07:16 16:08	07:50 15:59
22	05:13 20:52	05:56 20:02	06:42 18:57	07:27 17:54	07:17 16:07	07:50 15:59
23	05:14 20:51	05:58 20:00	06:43 18:55	07:29 17:52	07:19 16:06	07:51 16:00
24	05:16 20:50	05:59 19:58	06:44 18:52	07:31 17:51	07:20 16:06	07:51 16:00
25	05:17 20:48	06:01 19:56	06:46 18:56 (3)	07:32 16:49	07:22 16:05	07:52 16:01
26	05:18 20:47	06:02 19:54	06:47 18:53 (3)	07:34 16:47	07:23 16:04	07:52 16:02
27	05:20 20:46	06:04 19:52	06:49 18:41 (3)	07:35 16:45	07:25 16:03	07:52 16:02
28	05:21 20:44	06:05 19:50	06:50 19:03 (3)	07:37 16:43	07:26 16:02	07:53 16:03
29	05:22 20:43	06:06 19:48	06:52 18:37 (3)	07:39 16:41	07:27 16:02	07:53 16:04
30	05:24 20:42	06:08 19:46	06:53 19:05 (3)	07:40 16:40	07:29 16:01	07:53 16:05
31	05:25 20:40	06:09 19:44	06:54 19:05 (3)	07:42 16:38	07:31 16:06	07:53 16:06
Potential sun hours	490	447	379	335	275	256
Total, worst case		155	316		500	154

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 - RB5

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

January		February		March		April		May		June	
1	07:53	07:30	15:49 (2)	06:41	06:36	18:51 (3)	05:36	04:55			
	16:07	16:51	22	16:11 (2)	17:38	19:27	4	18:55 (3)	20:13	20:54	
2	07:53	07:29	15:50 (2)	06:39	06:34	18:49 (3)	05:34	04:55			
	16:08	16:53	23	16:13 (2)	17:39	19:28	7	18:56 (3)	20:14	20:55	
3	07:53	07:27	15:51 (2)	06:37	06:32	18:47 (3)	05:33	04:54			
	16:09	16:54	24	16:15 (2)	17:41	19:30	11	18:58 (3)	20:16	20:56	
4	07:53	07:26	15:52 (2)	06:35	06:29	18:46 (3)	05:31	04:53			
	16:10	16:56	26	16:18 (2)	17:43	19:31	13	18:59 (3)	20:17	20:57	
5	07:53	07:24	15:52 (2)	06:33	06:27	18:45 (3)	05:29	04:53			
	16:11	16:58	25	16:17 (2)	17:44	19:33	16	19:01 (3)	20:19	20:58	
6	07:52	07:23	15:54 (2)	06:31	06:25	18:44 (3)	05:28	04:52			
	16:12	16:59	23	16:17 (2)	17:46	19:34	19	19:03 (3)	20:20	20:58	
7	07:52	07:21	15:55 (2)	06:29	06:23	18:43 (3)	05:26	04:52			
	16:13	17:01	21	16:16 (2)	17:48	19:36	22	19:05 (3)	20:21	20:59	
8	07:52	07:20	15:56 (2)	06:27	06:21	18:43 (3)	05:24	04:51			
	16:15	17:03	18	16:14 (2)	17:49	19:37	23	19:06 (3)	20:23	21:00	
9	07:51	07:18	15:59 (2)	06:25	06:19	18:42 (3)	05:23	04:51			
	16:16	17:04	14	16:13 (2)	17:51	19:39	25	19:07 (3)	20:24	21:01	
10	07:51	07:16	16:02 (2)	06:23	06:17	18:41 (3)	05:21	04:50			
	16:17	17:06	7	16:09 (2)	17:52	19:40	27	19:08 (3)	20:26	21:02	
11	07:50	07:15		06:21	06:15	18:41 (3)	05:20	04:50			
	16:18	17:08		17:54	19:42	29	19:10 (3)	20:27	21:02		
12	07:50	07:13		06:19	06:13	18:41 (3)	05:18	04:50			
	16:20	17:10		17:56	19:44	31	19:12 (3)	20:29	21:03		
13	07:49	07:11		06:17	06:11	18:42 (3)	05:17	04:50			
	16:21	17:11		17:57	19:45	30	19:12 (3)	20:30	21:04		
14	07:49	07:10		06:14	06:09	18:42 (3)	05:15	04:49			
	16:23	17:13		17:59	19:47	29	19:11 (3)	20:32	21:04		
15	07:48	07:08		06:12	06:07	18:43 (3)	05:14	04:49			
	16:24	17:15		18:00	19:48	27	19:10 (3)	20:33	21:05		
16	07:47	07:06		06:10	06:05	18:43 (3)	05:12	04:49			
	16:25	17:16		18:02	19:50	25	19:08 (3)	20:34	21:05		
17	07:47	07:04		06:08	06:03	18:44 (3)	05:11	04:49			
	16:27	17:18		18:03	19:51	23	19:07 (3)	20:36	21:06		
18	07:46	07:02		06:06	06:01	18:46 (3)	05:10	04:49			
	16:28	17:20		18:05	19:53	19	19:05 (3)	20:37	21:06		
19	07:45	07:01		06:04	05:59	18:49 (3)	05:09	04:49			
	16:30	17:21		18:07	19:54	14	19:03 (3)	20:38	21:06		
20	07:44	06:59		06:02	05:57	18:52 (3)	05:07	04:49			
	16:31	17:23		18:08	19:56	8	19:00 (3)	20:40	21:07		
21	07:43	15:50 (2)	06:57	05:59	05:55		05:06	04:49			
	16:33	1	15:51 (2)	17:25	18:10	19:57	20:41	21:07			
22	07:42	15:50 (2)	06:55	05:57	05:53		05:05	04:50			
	16:35	3	15:53 (2)	17:26	18:11	19:59	20:42	21:07			
23	07:41	15:50 (2)	06:53	05:55	05:51		05:04	04:50			
	16:36	5	15:55 (2)	17:28	18:13	20:00	20:43	21:07			
24	07:40	15:49 (2)	06:51	05:53	05:49		05:03	04:50			
	16:38	7	15:56 (2)	17:30	18:14	20:02	20:45	21:07			
25	07:39	15:49 (2)	06:49	05:51	05:47		05:02	04:51			
	16:39	9	15:58 (2)	17:31	18:16	20:03	20:46	21:07			
26	07:38	15:49 (2)	06:47	05:49	05:45		05:01	04:51			
	16:41	11	16:00 (2)	17:33	18:17	20:05	20:47	21:07			
27	07:37	15:48 (2)	06:45	05:47	05:43		05:00	04:51			
	16:43	13	16:01 (2)	17:35	18:19	20:06	20:48	21:07			
28	07:35	15:49 (2)	06:43	05:44	05:41		04:59	04:52			
	16:44	14	16:03 (2)	17:36	18:20	20:08	20:49	21:07			
29	07:34	15:49 (2)		06:42	05:40		04:58	04:52			
	16:46	17	16:06 (2)		19:22	20:10	20:51	21:07			
30	07:33	15:49 (2)		06:40	05:38		04:57	04:53			
	16:48	18	16:07 (2)		19:24	20:11	20:52	21:07			
31	07:31	15:50 (2)		06:38			04:56				
	16:49	20	16:10 (2)		19:25		20:53				
Potential sun hours	269		283		368	411		475		486	
Total, worst case	118		203			402					

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

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

SHADOW - Calendar

Shadow receptor: E - RB5

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	04:53 21:07	05:26 20:39	06:11 19:42	18:41 (3) 19:10 (3)	06:55 18:37	06:44 16:36
2	04:54 21:07	05:28 20:37	06:12 19:40	18:40 (3) 19:07 (3)	06:56 18:35	06:45 16:35
3	04:55 21:06	05:29 20:36	06:14 19:38	18:40 (3) 19:05 (3)	06:58 18:33	06:47 16:33
4	04:55 21:06	05:30 20:34	06:15 19:36	18:40 (3) 19:03 (3)	06:59 18:31	06:48 16:31
5	04:56 21:06	05:32 20:33	06:17 19:33	18:40 (3) 19:01 (3)	07:01 18:29	06:50 16:30
6	04:57 21:05	05:33 20:31	06:18 19:31	18:40 (3) 18:59 (3)	07:02 18:27	06:52 16:28
7	04:58 21:05	05:35 20:29	06:20 19:29	18:40 (3) 18:56 (3)	07:04 18:25	06:53 16:27
8	04:58 21:04	05:36 20:28	06:21 19:27	18:40 (3) 18:54 (3)	07:05 18:22	06:55 16:25
9	04:59 21:04	05:37 20:26	06:23 19:25	18:41 (3) 18:52 (3)	07:07 18:20	06:57 16:24
10	05:00 21:03	05:39 20:24	06:24 19:23	18:42 (3) 18:50 (3)	07:09 18:18	06:58 16:22
11	05:01 21:02	05:40 20:23	06:25 19:21	18:44 (3) 18:48 (3)	07:10 18:16	07:00 16:21
12	05:02 21:01	05:42 20:21	06:27 19:18	07:12 18:14	16:21 16:19	15:57 15:57
13	05:03 21:01	05:43 20:19	06:28 19:16	07:13 18:12	16:19 16:18	15:57 15:57
14	05:04 21:00	05:45 20:17	06:30 19:14	07:15 18:10	16:17 16:17	15:57 15:57
15	05:05 20:59	05:46 20:15	06:31 19:12	07:16 18:08	16:16 16:15	15:57 15:57
16	05:06 20:58	05:48 20:14	06:33 19:10	07:18 18:06	16:15 16:14	15:57 15:57
17	05:07 20:57	05:49 20:12	06:34 19:08	07:19 18:04	16:14 16:13	15:57 15:57
18	05:09 20:56	05:50 20:10	06:36 19:05	07:21 18:02	16:11 16:12	15:58 15:58
19	05:10 20:55	05:52 20:08	06:37 19:03	07:23 18:00	16:13 16:11	15:58 15:58
20	05:11 20:54	05:53 20:06	06:39 19:01	07:24 17:58	16:14 16:09	15:59 15:58
21	05:12 20:53	05:55 20:04	06:40 18:59	07:26 17:56	16:16 16:08	15:59 15:59
22	05:13 20:52	05:56 20:02	06:42 18:57	07:27 17:54	16:17 16:07	15:59 15:59
23	05:14 20:51	05:58 20:00	18:55 (3) 19:04 (3)	06:43 18:55	16:07 16:06	15:59 16:00
24	05:16 20:50	05:59 19:58	18:51 (3) 19:07 (3)	06:44 18:52	16:06 16:06	16:00 16:00
25	05:17 20:48	06:01 19:56	18:49 (3) 19:09 (3)	06:46 18:50	16:06 16:05	16:00 16:01
26	05:18 20:47	06:02 19:54	18:47 (3) 19:10 (3)	06:47 18:48	16:05 16:04	16:01 16:02
27	05:20 20:46	06:04 19:52	18:46 (3) 19:11 (3)	06:49 18:46	16:05 16:03	16:02 16:03
28	05:21 20:44	06:05 19:50	18:44 (3) 19:12 (3)	06:50 18:44	16:03 16:02	16:03 16:02
29	05:22 20:43	06:06 19:48	18:43 (3) 19:12 (3)	06:52 18:42	16:03 16:02	16:02 16:04
30	05:24 20:42	06:08 19:46	18:43 (3) 19:13 (3)	06:53 18:39	16:02 16:01	16:04 16:05
31	05:25 20:40	06:09 19:44	18:41 (3) 19:12 (3)	06:53 16:38	16:01 16:38	16:05 16:06
Potential sun hours	490	447	379	335	275	256
Total, worst case		211	197		325	174

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

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

Shadow receptor: F - RB6

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

January		February		March		April		May		June	
1	07:53	15:06 (1)	07:30	16:07 (2)	06:41	06:36		05:36	04:55		
	16:07	15:23 (1)	16:51	16:09 (2)	17:38	19:27		20:13	20:54		
2	07:53	15:06 (1)	07:29	16:07 (2)	06:39	06:34		05:34	04:55		
	16:08	15:23 (1)	16:53	16:11 (2)	17:39	19:28		20:14	20:55		
3	07:53	15:07 (1)	07:27	16:06 (2)	06:37	06:32		05:33	04:54		
	16:09	15:24 (1)	16:54	16:13 (2)	17:41	19:30		20:16	20:56		
4	07:53	15:08 (1)	07:26	16:06 (2)	06:35	06:29		05:31	04:53		
	16:10	15:26 (1)	16:56	16:15 (2)	17:43	19:31		20:17	20:57		
5	07:53	15:09 (1)	07:24	16:06 (2)	06:33	06:27		05:29	04:53		
	16:11	15:27 (1)	16:58	16:16 (2)	17:44	19:33		20:19	20:58		
6	07:52	15:09 (1)	07:23	16:06 (2)	06:31	06:25	19:01 (3)	05:28	04:52		
	16:12	15:28 (1)	16:59	16:18 (2)	17:46	19:34	2 19:03 (3)	20:20	20:58		
7	07:52	15:10 (1)	07:21	16:06 (2)	06:29	06:23	18:58 (3)	05:26	04:52		
	16:13	15:30 (1)	17:01	16:20 (2)	17:48	19:36	7 19:05 (3)	20:21	20:59		
8	07:52	15:10 (1)	07:20	16:06 (2)	06:27	06:21	18:57 (3)	05:24	04:51		
	16:15	15:29 (1)	17:03	16:21 (2)	17:49	19:37	9 19:06 (3)	20:23	21:00		
9	07:51	15:12 (1)	07:18	16:06 (2)	06:25	06:19	18:55 (3)	05:23	04:51		
	16:16	15:30 (1)	17:04	16:24 (2)	17:51	19:39	12 19:07 (3)	20:24	21:01		
10	07:51	15:12 (1)	07:16	16:06 (2)	06:23	06:17	18:53 (3)	05:21	04:50		
	16:17	15:29 (1)	17:06	16:25 (2)	17:52	19:40	15 19:08 (3)	20:26	21:02		
11	07:50	15:14 (1)	07:15	16:07 (2)	06:21	06:15	18:53 (3)	05:20	04:50		
	16:18	15:30 (1)	17:08	16:27 (2)	17:54	19:42	17 19:10 (3)	20:27	21:02		
12	07:50	15:15 (1)	07:13	16:07 (2)	06:19	06:13	18:52 (3)	05:18	04:50		
	16:20	15:29 (1)	17:10	16:28 (2)	17:56	19:44	19 19:11 (3)	20:29	21:03		
13	07:49	15:16 (1)	07:11	16:09 (2)	06:17	06:11	18:51 (3)	05:17	04:50		
	16:21	15:28 (1)	17:11	16:31 (2)	17:57	19:45	22 19:13 (3)	20:30	21:04		
14	07:49	15:18 (1)	07:10	16:09 (2)	06:14	06:09	18:51 (3)	05:15	04:49		
	16:23	15:26 (1)	17:13	16:32 (2)	17:59	19:47	23 19:14 (3)	20:32	21:04		
15	07:48		07:08	16:11 (2)	06:12	06:07	18:51 (3)	05:14	04:49		
	16:24		17:15	16:30 (2)	18:00	19:48	25 19:16 (3)	20:33	21:05		
16	07:47		07:06	16:12 (2)	06:10	06:05	18:51 (3)	05:12	04:49		
	16:25		17:16	16:28 (2)	18:02	19:50	26 19:17 (3)	20:34	21:05		
17	07:47		07:04	16:15 (2)	06:08	06:03	18:51 (3)	05:11	04:49		
	16:27		17:18	16:26 (2)	18:03	19:51	28 19:19 (3)	20:36	21:06		
18	07:46		07:02		06:06	06:01	18:51 (3)	05:10	04:49		
	16:28		17:20		18:05	19:53	28 19:19 (3)	20:37	21:06		
19	07:45		07:01		06:04	05:59	18:52 (3)	05:09	04:49		
	16:30		17:21		18:07	19:54	27 19:19 (3)	20:38	21:06		
20	07:44		06:59		06:02	05:57	18:53 (3)	05:07	04:49		
	16:31		17:23		18:08	19:56	25 19:18 (3)	20:40	21:07		
21	07:43		06:57		05:59	05:55	18:53 (3)	05:06	04:49		
	16:33		17:25		18:10	19:57	23 19:16 (3)	20:41	21:07		
22	07:42		06:55		05:57	05:53	18:54 (3)	05:05	04:50		
	16:35		17:26		18:11	19:59	21 19:15 (3)	20:42	21:07		
23	07:41		06:53		05:55	05:51	18:56 (3)	05:04	04:50		
	16:36		17:28		18:13	20:00	17 19:13 (3)	20:43	21:07		
24	07:40		06:51		05:53	05:49	18:58 (3)	05:03	04:50		
	16:38		17:30		18:14	20:02	12 19:10 (3)	20:45	21:07		
25	07:39		06:49		05:51	05:47	19:03 (3)	05:02	04:51		
	16:39		17:31		18:16	20:03	1 19:04 (3)	20:46	21:07		
26	07:38		06:47		05:49	05:45		05:01	04:51		
	16:41		17:33		18:17	20:05		20:47	21:07		
27	07:37		06:45		05:47	05:43		05:00	04:51		
	16:43		17:35		18:19	20:06		20:48	21:07		
28	07:35		06:43		05:44	05:41		04:59	04:52		
	16:44		17:36		18:20	20:08		20:49	21:07		
29	07:34				06:42	05:40		04:58	04:52		
	16:46				19:22	20:09		20:51	21:07		
30	07:33				06:40	05:38		04:57	04:53		
	16:48				19:24	20:11		20:52	21:07		
31	07:31				06:38			04:56			
	16:49				19:25			20:53			
Potential sun hours	269	283		368	411	359		475	486		
Total, worst case	230	242									

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

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

Shadow receptor: F - RB6

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

The sun is shining all the day, from sunrise to sunset

The rotor plane is always perpendicular to the line from the WTG to the sun

The WTG is always operating

	July	August	September		October		November		December		
1	04:53 21:07	05:26 20:39		06:11 19:42	18:53 (3) 19:10 (3)	06:55 18:37		06:44 16:36	15:36 (2) 15:55 (2)	07:30 16:00	14:56 (1) 15:12 (1)
2	04:54 21:07	05:28 20:37		06:12 19:40	18:52 (3) 19:07 (3)	06:56 18:35		06:45 16:35	15:35 (2) 15:52 (2)	07:31 16:00	14:55 (1) 15:12 (1)
3	04:55 21:06	05:29 20:36		06:14 19:38	18:53 (3) 19:05 (3)	06:58 18:33		06:47 16:33	15:35 (2) 15:51 (2)	07:33 15:59	14:55 (1) 15:13 (1)
4	04:55 21:06	05:30 20:34		06:15 19:36	18:54 (3) 19:03 (3)	06:59 18:31		06:48 16:31	15:36 (2) 15:49 (2)	07:34 15:59	14:55 (1) 15:14 (1)
5	04:56 21:06	05:32 20:33		06:17 19:33	18:54 (3) 19:01 (3)	07:01 18:29		06:50 16:30	15:36 (2) 15:48 (2)	07:35 15:58	14:55 (1) 15:15 (1)
6	04:57 21:05	05:33 20:31		06:18 19:31	18:57 (3) 18:59 (3)	07:02 18:27		06:52 16:28	15:35 (2) 15:46 (2)	07:36 15:58	14:55 (1) 15:14 (1)
7	04:58 21:05	05:35 20:29		06:20 19:29		07:04 18:25		06:53 16:27	15:36 (2) 15:44 (2)	07:38 15:58	14:55 (1) 15:14 (1)
8	04:58 21:04	05:36 20:28		06:21 19:27		07:05 18:22		06:55 16:25	15:37 (2) 15:43 (2)	07:39 15:57	14:56 (1) 15:14 (1)
9	04:59 21:04	05:37 20:26		06:23 19:25		07:07 18:20		06:57 16:24	15:38 (2) 15:42 (2)	07:40 15:57	14:56 (1) 15:14 (1)
10	05:00 21:03	05:39 20:24		06:24 19:23		07:09 18:18		06:58 16:22	15:38 (2) 15:40 (2)	07:41 15:57	14:56 (1) 15:13 (1)
11	05:01 21:02	05:40 20:23		06:25 19:21		07:10 18:16		07:00 16:21		07:42 15:57	14:56 (1) 15:13 (1)
12	05:02 21:01	05:42 20:21		06:27 19:18		07:12 18:14		07:01 16:19		07:43 15:57	14:56 (1) 15:13 (1)
13	05:03 21:01	05:43 20:19		06:28 19:16		07:13 18:12		07:03 16:18		07:44 15:57	14:57 (1) 15:13 (1)
14	05:04 21:00	05:45 20:17		06:30 19:14		07:15 18:10		07:05 16:17		07:45 15:57	14:57 (1) 15:13 (1)
15	05:05 20:59	05:46 20:15		06:31 19:12		07:16 18:08		07:06 16:15		07:46 15:57	14:58 (1) 15:13 (1)
16	05:06 20:58	05:48 20:14		06:33 19:10		07:18 18:06		07:08 16:14		07:46 15:57	14:57 (1) 15:12 (1)
17	05:07 20:57	05:49 20:12		06:34 19:08		07:19 18:04		07:09 16:13		07:47 15:57	14:58 (1) 15:13 (1)
18	05:09 20:56	05:50 20:10	19:07 (3) 19:13 (3)	06:36 19:05		07:21 18:02		07:11 16:12		07:48 15:58	14:59 (1) 15:13 (1)
19	05:10 20:55	05:52 20:08	6 13	19:13 (3) 19:16 (3)	06:37 19:03	07:23 18:00		07:13 16:11		07:49 15:58	14:59 (1) 15:13 (1)
20	05:11 20:54	05:53 20:06	18	19:03 (3) 19:19 (3)	06:39 19:01	07:24 17:58		07:14 16:09		07:49 15:58	14:59 (1) 15:13 (1)
21	05:12 20:53	05:55 20:04	21	18:59 (3) 19:20 (3)	06:40 18:59	07:26 17:56		07:16 16:08		07:50 15:59	15:00 (1) 15:14 (1)
22	05:13 20:52	05:56 20:02	23	18:58 (3) 19:21 (3)	06:42 18:57	07:27 17:54		07:17 16:07		07:50 15:59	15:00 (1) 15:14 (1)
23	05:14 20:51	05:58 20:00	26	18:56 (3) 19:22 (3)	06:43 18:55	07:29 17:52		07:19 16:06		07:51 16:00	15:00 (1) 15:14 (1)
24	05:16 20:50	05:59 19:58	27	18:55 (3) 19:22 (3)	06:44 18:52	07:31 17:51	16:49 (2) 16:52 (2)	07:20 16:06		07:51 16:00	15:02 (1) 15:16 (1)
25	05:17 20:48	06:01 19:56	28	18:55 (3) 19:23 (3)	06:46 18:50	06:32 16:49	15:43 (2) 15:56 (2)	07:22 16:05		07:52 16:01	15:02 (1) 15:16 (1)
26	05:18 20:47	06:02 19:54	28	18:53 (3) 19:21 (3)	06:47 18:48	06:34 16:47	15:41 (2) 15:58 (2)	07:23 16:04		07:52 16:02	15:02 (1) 15:16 (1)
27	05:20 20:46	06:04 19:52	27	18:53 (3) 19:20 (3)	06:49 18:46	06:35 16:45	15:40 (2) 16:00 (2)	07:25 16:03		07:52 16:02	15:03 (1) 15:18 (1)
28	05:21 20:44	06:05 19:50	24	18:53 (3) 19:17 (3)	06:50 18:44	06:37 16:43	15:39 (2) 16:01 (2)	07:26 16:02	14:58 (1) 15:06 (1)	07:53 16:03	15:04 (1) 15:19 (1)
29	05:22 20:43	06:06 19:48	23	18:52 (3) 19:15 (3)	06:52 18:42	06:39 16:41	15:37 (2) 15:59 (2)	07:27 16:02	14:57 (1) 15:09 (1)	07:53 16:04	15:04 (1) 15:19 (1)
30	05:24 20:42	06:08 19:46	22	18:52 (3) 19:14 (3)	06:53 18:39	06:40 16:40	15:37 (2) 15:57 (2)	07:29 16:01	14:56 (1) 15:10 (1)	07:53 16:05	15:05 (1) 15:20 (1)
31	05:25 20:40	06:09 19:44	19	18:52 (3) 19:11 (3)		06:42 16:38	15:36 (2) 15:56 (2)			07:53 16:06	15:05 (1) 15:21 (1)
Potential sun hours	490	447		379		335		275		256	
Total, worst case		305		62		137		142		494	

Table 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: G - RB7

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January			February			March			April			May			June		
1	07:53			07:30	15:54 (1)	06:41		16:40 (2)	06:36			05:36		19:15 (3)	04:55			
	16:07			16:51	4 15:58 (1)	17:38	20	17:00 (2)	19:27			20:13	22	19:37 (3)	20:54			
2	07:53			07:29		06:39		16:41 (2)	06:34			05:34		19:15 (3)	04:55			
	16:08			16:53		17:39	17	16:58 (2)	19:28			20:14	20	19:35 (3)	20:55			
3	07:53			07:27		06:37		16:43 (2)	06:32			05:33		19:17 (3)	04:54			
	16:09			16:54		17:41	13	16:56 (2)	19:30			20:16	18	19:35 (3)	20:56			
4	07:53			07:26		06:35		16:48 (2)	06:29			05:31		19:18 (3)	04:53			
	16:10			16:56		17:43	3	16:51 (2)	19:31			20:17	15	19:33 (3)	20:57			
5	07:53			07:24		06:33			06:27			05:29		19:20 (3)	04:53			
	16:11			16:58		17:44			19:33			20:18	10	19:30 (3)	20:58			
6	07:52			07:23		06:31			06:25			05:28			04:52			
	16:12			16:59		17:46			19:34			20:20			20:58			
7	07:52			07:21		06:29			06:23			05:26			04:52			
	16:13			17:01		17:48			19:36			20:21			20:59			
8	07:52			07:20		06:27			06:21			05:24			04:51			
	16:15			17:03		17:49			19:37			20:23			21:00			
9	07:51			07:18		06:25			06:19			05:23			04:51			
	16:16			17:04		17:51			19:39			20:24			21:01			
10	07:51			07:16		06:23			06:17			05:21			04:50			
	16:17			17:06		17:52			19:40			20:26			21:02			
11	07:50			07:15		06:21			06:15			05:20			04:50			
	16:18			17:08		17:54			19:42			20:27			21:02			
12	07:50			07:13		06:19			06:13			05:18			04:50			
	16:20			17:09		17:56			19:44			20:29			21:03			
13	07:49			07:11		06:17			06:11			05:17			04:50			
	16:21			17:11		17:57			19:45			20:30			21:04			
14	07:49			07:10		06:14			06:09			05:15			04:49			
	16:23			17:13		17:59			19:47			20:32			21:04			
15	07:48			07:08		06:12			06:07			05:14			04:49			
	16:24			17:15		18:00			19:48			20:33			21:05			
16	07:47			07:06		06:10			06:05			05:12			04:49			
	16:25			17:16		18:02			19:50			20:34			21:05			
17	07:47			07:04		06:08			06:03		19:21 (3)	05:11			04:49			
	16:27			17:18		18:03			19:51	4	19:25 (3)	20:36			21:06			
18	07:46			07:02		16:40 (2)			06:01		19:19 (3)	05:10			04:49			
	16:28			17:20	1	16:41 (2)			19:53	7	19:26 (3)	20:37			21:06			
19	07:45		15:41 (1)	07:01		16:39 (2)			05:59		19:18 (3)	05:09			04:49			
	16:30	1	15:42 (1)	17:21	4	16:43 (2)			19:54	11	19:29 (3)	20:38			21:06			
20	07:44		15:42 (1)	06:59		16:38 (2)			05:57		19:17 (3)	05:07			04:49			
	16:31	2	15:44 (1)	17:23	7	16:45 (2)			19:56	13	19:30 (3)	20:40			21:07			
21	07:43		15:42 (1)	06:57		16:38 (2)			05:55		19:16 (3)	05:06			04:49			
	16:33	4	15:46 (1)	17:25	9	16:47 (2)			19:57	16	19:32 (3)	20:41			21:07			
22	07:42		15:42 (1)	06:55		16:38 (2)			05:53		19:15 (3)	05:05			04:50			
	16:35	6	15:48 (1)	17:26	12	16:50 (2)			19:59	18	19:33 (3)	20:42			21:07			
23	07:41		15:42 (1)	06:53		16:38 (2)			05:51		19:14 (3)	05:04			04:50			
	16:36	7	15:49 (1)	17:28	14	16:52 (2)			20:00	20	19:34 (3)	20:43			21:07			
24	07:40		15:43 (1)	06:51		16:38 (2)			05:49		19:13 (3)	05:03			04:50			
	16:38	8	15:51 (1)	17:30	16	16:54 (2)			20:02	23	19:36 (3)	20:45			21:07			
25	07:39		15:43 (1)	06:49		16:38 (2)			05:47		19:13 (3)	05:02			04:51			
	16:39	10	15:53 (1)	17:31	18	16:56 (2)			20:03	24	19:37 (3)	20:46			21:07			
26	07:38		15:44 (1)	06:47		16:38 (2)			05:45		19:13 (3)	05:01			04:51			
	16:41	11	15:55 (1)	17:33	20	16:58 (2)			20:05	26	19:39 (3)	20:47			21:07			
27	07:36		15:45 (1)	06:45		16:39 (2)			05:43		19:13 (3)	05:00			04:51			
	16:43	11	15:56 (1)	17:35	21	17:00 (2)			20:06	27	19:40 (3)	20:48			21:07			
28	07:35		15:46 (1)	06:43		16:40 (2)			05:41		19:13 (3)	04:59			04:52			
	16:44	12	15:58 (1)	17:36	22	17:02 (2)			20:08	26	19:39 (3)	20:49			21:07			
29	07:34		15:47 (1)			06:42			05:40		19:13 (3)	04:58			04:52			
	16:46	14	16:01 (1)			19:22			20:09	25	19:38 (3)	20:51			21:07			
30	07:33		15:48 (1)			06:40			05:38		19:14 (3)	04:57			04:53			
	16:48	14	16:02 (1)			19:24			20:11	24	19:38 (3)	20:52			21:07			
31	07:31		15:51 (1)			06:38						04:56						
	16:49	11	16:02 (1)			19:25						20:53						
Potential sun hours	269			283		368			411			475			486			
Total, worst case		111			148		53			264		85						

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

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

Shadow receptor: G - RB7

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	04:53	05:26	06:11	06:55	06:44	07:30
	21:07	20:39	19:42	18:37	16:36	16:00
2	04:54	05:28	06:12	06:56	06:45	07:31
	21:07	20:37	19:40	18:35	16:35	16:00
3	04:55	05:29	06:14	06:58	06:47	07:33
	21:06	20:36	19:38	18:33	16:33	15:59
4	04:55	05:30	06:15	06:59	06:48	07:34
	21:06	20:34	19:36	18:31	16:31	15:59
5	04:56	05:32	06:17	07:01	06:50	07:35
	21:06	20:33	19:33	18:29	16:30	15:58
6	04:57	05:33	06:18	07:02	06:52	07:36
	21:05	20:31	19:31	18:27	16:28	15:58
7	04:58	05:35	19:32 (3)	06:20	07:04	06:53
	21:05	20:29	19:38 (3)	19:29	18:25	16:27
8	04:58	05:36	19:28 (3)	06:21	07:05	06:55
	21:04	20:28	19:40 (3)	19:27	18:22	16:25
9	04:59	05:37	19:27 (3)	06:23	07:07	06:57
	21:03	20:26	19:43 (3)	19:25	18:20	16:24
10	05:00	05:39	19:25 (3)	06:24	07:09	06:58
	21:03	20:24	19:44 (3)	19:23	18:18	17:20 (2)
11	05:01	05:40	19:23 (3)	06:25	07:10	17:16 (2)
	21:02	20:23	19:44 (3)	19:21	18:16	17:31 (2)
12	05:02	05:42	19:23 (3)	06:27	07:12	17:15 (2)
	21:01	20:21	19:46 (3)	19:18	18:14	17:33 (2)
13	05:03	05:43	19:22 (3)	06:28	07:13	17:12 (2)
	21:01	20:19	19:46 (3)	19:16	18:12	17:34 (2)
14	05:04	05:45	19:22 (3)	06:30	07:15	17:11 (2)
	21:00	20:17	19:47 (3)	19:14	18:10	17:34 (2)
15	05:05	05:46	19:21 (3)	06:31	07:16	17:11 (2)
	20:59	20:15	19:47 (3)	19:12	18:08	17:32 (2)
16	05:06	05:48	19:20 (3)	06:33	07:18	17:09 (2)
	20:58	20:14	19:46 (3)	19:10	18:06	17:29 (2)
17	05:07	05:49	19:20 (3)	06:34	07:19	17:09 (2)
	20:57	20:12	19:45 (3)	19:08	18:04	17:27 (2)
18	05:09	05:50	19:19 (3)	06:36	07:21	17:09 (2)
	20:56	20:10	19:43 (3)	19:05	18:02	17:25 (2)
19	05:10	05:52	19:19 (3)	06:37	07:23	17:08 (2)
	20:55	20:08	19:41 (3)	19:03	18:00	17:22 (2)
20	05:11	05:53	19:20 (3)	06:39	07:24	17:09 (2)
	20:54	20:06	19:40 (3)	19:01	17:58	17:20 (2)
21	05:12	05:55	19:19 (3)	06:40	07:26	17:09 (2)
	20:53	20:04	19:37 (3)	18:59	17:56	17:18 (2)
22	05:13	05:56	19:20 (3)	06:42	07:27	17:09 (2)
	20:52	20:02	19:36 (3)	18:57	17:54	17:15 (2)
23	05:14	05:58	19:21 (3)	06:43	07:29	17:10 (2)
	20:51	20:00	19:34 (3)	18:55	17:52	17:13 (2)
24	05:16	05:59	19:21 (3)	06:44	07:31	17:06
	20:50	19:58	19:32 (3)	18:52	17:51	16:06
25	05:17	06:01	19:23 (3)	06:46	06:32	07:22
	20:48	19:56	19:30 (3)	18:50	16:49	16:05
26	05:18	06:02	19:24 (3)	06:47	06:34	07:23
	20:47	19:54	19:28 (3)	18:48	16:47	16:04
27	05:20	06:04		06:49	06:35	07:25
	20:46	19:52		18:46	16:45	16:03
28	05:21	06:05		06:50	06:37	07:26
	20:44	19:50		18:44	16:43	16:02
29	05:22	06:06		06:52	06:39	07:27
	20:43	19:48		18:42	16:41	16:02
30	05:24	06:08		06:53	06:40	07:29
	20:42	19:46		18:39	16:40	16:01
31	05:25	06:09			06:42	
	20:40	19:44			16:38	
Potential sun hours	490	447	379	335	275	256
Total, worst case		358		205	116	

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: H - RB8

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:13	04:55 20:54
2	07:53 16:08	07:29 16:53	06:39 17:39	06:34 19:28	05:34 20:14	04:55 20:55
3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 19:30	05:33 20:16	04:54 20:56
4	07:53 16:10	07:26 16:56	06:35 17:43	06:29 19:31	05:31 20:17	04:53 20:57
5	07:53 16:11	07:24 16:58	16:02 (1) 06:33 16:03 (1) 17:44	06:27 19:33	05:29 20:18	04:53 20:58
6	07:52 16:12	07:23 16:59	16:03 (1) 06:31 16:06 (1) 17:46	06:25 19:34	05:28 20:20	04:52 20:58
7	07:52 16:13	07:21 17:01	16:04 (1) 06:29 16:08 (1) 17:48	16:58 (2) 06:23 17:00 (2) 19:36	05:26 20:21	19:38 (3) 04:52 20:59
8	07:52 16:15	07:20 17:03	16:05 (1) 06:27 16:09 (1) 17:49	16:58 (2) 06:21 17:02 (2) 19:37	05:24 20:23	19:38 (3) 04:51 21:00
9	07:51 16:16	07:18 17:04	16:07 (1) 06:25 16:12 (1) 17:51	16:58 (2) 06:19 17:03 (2) 19:39	05:23 20:24	19:37 (3) 04:51 21:01
10	07:51 16:17	07:16 17:06	16:08 (1) 06:23 16:14 (1) 17:52	16:58 (2) 06:17 17:05 (2) 19:40	05:21 20:26	19:37 (3) 04:50 21:02
11	07:50 16:18	07:15 17:08	16:11 (1) 06:21 16:16 (1) 17:54	16:58 (2) 06:15 17:06 (2) 19:42	05:20 20:27	19:38 (3) 04:50 21:02
12	07:50 16:20	07:13 17:10	06:19 17:56	06:13 17:07 (2) 19:44	05:18 20:29	19:37 (3) 04:50 21:03
13	07:49 16:21	07:11 17:11	06:17 17:57	06:11 17:09 (2) 19:45	05:17 20:30	19:38 (3) 04:50 21:04
14	07:49 16:23	07:10 17:13	06:14 17:59	17:01 (2) 06:09 17:11 (2) 19:47	05:15 20:32	19:38 (3) 04:49 21:04
15	07:48 16:24	07:08 17:15	06:12 18:00	17:03 (2) 06:07 17:12 (2) 19:48	05:14 20:33	19:38 (3) 04:49 21:05
16	07:47 16:25	07:06 17:16	06:10 18:02	17:06 (2) 06:05 17:14 (2) 19:50	05:12 20:34	19:38 (3) 04:49 21:05
17	07:47 16:27	07:04 17:18	06:08 18:03	06:03 19:51	05:11 20:36	19:39 (3) 04:49 21:06
18	07:46 16:28	07:02 17:20	06:06 18:05	06:01 19:53	05:10 20:37	19:40 (3) 04:49 21:06
19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 19:54	05:09 20:38	19:39 (3) 04:49 21:06
20	07:44 16:31	06:59 17:23	06:02 18:08	05:57 19:56	05:07 20:40	19:40 (3) 04:49 21:07
21	07:43 16:33	06:57 17:25	05:59 18:10	05:55 19:57	05:06 20:41	19:41 (3) 04:50 21:07
22	07:42 16:35	06:55 17:26	05:57 18:11	05:53 19:59	05:05 20:42	19:42 (3) 04:50 21:07
23	07:41 16:36	06:53 17:28	05:55 18:13	05:51 20:00	05:04 20:43	19:44 (3) 04:50 21:07
24	07:40 16:38	06:51 17:30	05:53 18:14	05:49 20:02	05:03 20:45	19:45 (3) 04:50 21:07
25	07:39 16:39	06:49 17:31	05:51 18:16	05:47 20:03	05:02 20:46	19:47 (3) 04:51 21:07
26	07:38 16:41	06:47 17:33	05:49 18:17	05:45 20:05	05:01 20:47	19:55 (3) 04:51 21:07
27	07:36 16:43	06:45 17:35	05:47 18:19	05:43 20:06	05:00 20:48	20:00 (3) 04:51 21:07
28	07:35 16:44	06:43 17:36	05:44 18:20	05:41 20:08	04:59 20:49	19:58 (3) 04:51 21:07
29	07:34 16:46		06:42 19:22	05:40 20:09	04:58 20:51	19:57 (3) 04:51 21:07
30	07:33 16:48		06:40 19:24	05:38 20:11	04:57 20:52	19:55 (3) 04:51 21:07
31	07:31 16:49		06:38 19:25		04:56 20:53	
Potential sun hours	269	283	368	411	475	486
Total, worst case		28	70		252	

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

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

Shadow receptor: H - RB8

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July			August			September			October			November			December			
1	04:53			05:26			19:48 (3)	06:11			06:55			17:39 (2)	06:44			15:38 (1)	07:30
	21:07			20:39	10		19:58 (3)	19:42			18:37	9		17:48 (2)	16:36	5		15:43 (1)	16:00
2	04:54			05:28			19:47 (3)	06:12			06:56			17:37 (2)	06:45			15:35 (1)	07:31
	21:07			20:37	9		19:56 (3)	19:40			18:35	8		17:45 (2)	16:35	6		15:41 (1)	16:00
3	04:55			05:29			19:48 (3)	06:14			06:58			17:37 (2)	06:47			15:34 (1)	07:33
	21:06			20:36	7		19:55 (3)	19:38			18:33	7		17:44 (2)	16:33	5		15:39 (1)	15:59
4	04:55			05:30			19:48 (3)	06:15			06:59			17:35 (2)	06:48			15:34 (1)	07:34
	21:06			20:34	5		19:53 (3)	19:36			18:31	6		17:41 (2)	16:31	3		15:37 (1)	15:59
5	04:56			05:32			19:48 (3)	06:17			07:01			17:35 (2)	06:50			15:33 (1)	07:35
	21:06			20:33	3		19:51 (3)	19:33			18:29	4		17:39 (2)	16:30	2		15:35 (1)	15:58
6	04:57			05:33			19:49 (3)	06:18			07:02			17:34 (2)	06:52			15:32 (1)	07:36
	21:05			20:31	1		19:50 (3)	19:31			18:27	3		17:37 (2)	16:28	1		15:33 (1)	15:58
7	04:58			05:35				06:20			07:04			17:34 (2)	06:53				07:38
	21:05			20:29				19:29			18:25	1		17:35 (2)	16:27				15:58
8	04:58			05:36				06:21			07:05				06:55				07:39
	21:04			20:28				19:27			18:22				16:25				15:57
9	04:59			05:37				06:23			07:07				06:57				07:40
	21:03			20:26				19:25			18:20				16:24				15:57
10	05:00			05:39				06:24			07:09				06:58				07:41
	21:03			20:24				19:23			18:18				16:22				15:57
11	05:01			05:40				06:25			07:10				07:00				07:42
	21:02			20:23				19:21			18:16				16:21				15:57
12	05:02			05:42				06:27			07:12				07:01				07:43
	21:01			20:21				19:18			18:14				16:19				15:57
13	05:03			05:43				06:28			07:13				07:03				07:44
	21:01			20:19				19:16			18:12				16:18				15:57
14	05:04			05:45				06:30			07:15				07:05				07:45
	21:00			20:17				19:14			18:10				16:17				15:57
15	05:05			05:46				06:31			07:16				07:06				07:46
	20:59			20:15				19:12			18:08				16:15				15:57
16	05:06			05:48				06:33			07:18				07:08				07:46
	20:58			20:14				19:10			18:06				16:14				15:57
17	05:07			05:49				06:34			07:19				07:09				07:47
	20:57			20:12				19:08			18:04				16:13				15:57
18	05:09		19:58 (3)	05:50				06:36			07:21				07:11				07:48
	20:56	5	20:03 (3)	20:10				19:05			18:02				16:12				15:58
19	05:10		19:55 (3)	05:52				06:37			07:23				07:13				07:49
	20:55	11	20:06 (3)	20:08				19:03			18:00				16:11				15:58
20	05:11		19:54 (3)	05:53				06:39			07:24				07:14				07:49
	20:54	13	20:07 (3)	20:06				19:01			17:58				16:09				15:58
21	05:12		19:54 (3)	05:55				06:40			07:26				07:16				07:50
	20:53	15	20:09 (3)	20:04				18:59			17:56				16:08				15:59
22	05:13		19:52 (3)	05:56				06:42			07:27				07:17				07:50
	20:52	18	20:10 (3)	20:02				18:57			17:54				16:07				15:59
23	05:14		19:51 (3)	05:58				06:43			07:29				07:19				07:51
	20:51	20	20:11 (3)	20:00				18:55			17:52				16:06				16:00
24	05:16		19:50 (3)	05:59				06:44			07:31				07:20				07:51
	20:50	21	20:11 (3)	19:58				18:52			17:51				16:06				16:00
25	05:17		19:50 (3)	06:01				06:46			06:32				07:22				07:52
	20:48	20	20:10 (3)	19:56				18:50			16:49				16:05				16:01
26	05:18		19:50 (3)	06:02				06:47			06:34				07:23				07:52
	20:47	19	20:09 (3)	19:54				18:48			16:47				16:04				16:02
27	05:20		19:49 (3)	06:04				06:49		17:50 (2)	06:35				07:25				07:52
	20:46	18	20:07 (3)	19:52				18:46	5	17:55 (2)	16:45				16:03				16:02
28	05:21		19:49 (3)	06:05				06:50		17:45 (2)	06:37				07:26				07:53
	20:44	16	20:05 (3)	19:50				18:44	9	17:54 (2)	16:43				16:02				16:03
29	05:22		19:48 (3)	06:06				06:52		17:42 (2)	06:39				07:27				07:53
	20:43	15	20:03 (3)	19:48				18:42	10	17:52 (2)	16:41				16:02				16:04
30	05:24		19:48 (3)	06:08				06:53		17:40 (2)	06:40				07:29				07:53
	20:42	14	20:02 (3)	19:46				18:39	9	17:49 (2)	16:40				16:01				16:05
31	05:25		19:48 (3)	06:09						06:42				15:40 (1)					07:53
	20:40	12	20:00 (3)	19:44						16:38	5			15:45 (1)					16:06
Potential sun hours	490			447				379			335				275				256
Total, worst case		217			35				33			43				22			

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

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

SHADOW - Calendar

Shadow receptor: I - RB9

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:53 16:07	07:30 16:51	06:41 17:38	16:51 (1) 17:05 (1)	06:36 19:27	04:55 20:54
2	07:53 16:08	07:29 16:53	06:39 17:39	16:54 (1) 17:02 (1)	06:34 19:28	04:55 20:55
3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 19:30	05:33 20:15	04:54 20:56
4	07:53 16:10	07:26 16:56	06:35 17:43	06:29 19:31	05:31 20:17	04:53 20:57
5	07:53 16:11	07:24 16:58	06:33 17:44	06:27 19:33	05:29 20:18	04:53 20:58
6	07:52 16:12	07:23 16:59	06:31 17:46	06:25 19:34	05:28 20:20	04:52 20:58
7	07:52 16:13	07:21 17:01	06:29 17:48	06:23 19:36	05:26 20:21	04:52 20:59
8	07:52 16:15	07:20 17:03	06:27 17:49	06:21 19:37	05:24 20:23	04:51 21:00
9	07:51 16:16	07:18 17:04	06:25 17:51	06:19 19:39	05:23 20:24	04:51 21:01
10	07:51 16:17	07:16 17:06	06:23 17:52	06:17 19:40	05:21 20:26	04:50 21:02
11	07:50 16:18	07:15 17:08	06:21 17:54	06:15 19:42	05:20 20:27	04:50 21:02
12	07:50 16:20	07:13 17:09	06:19 17:56	06:13 19:44	05:18 20:29	19:59 (3) 20:00 (3)
13	07:49 16:21	07:11 17:11	06:16 17:57	06:11 19:45	05:17 20:30	19:59 (3) 20:02 (3)
14	07:49 16:23	07:10 17:13	06:14 17:59	06:09 19:47	05:15 20:31	19:59 (3) 20:04 (3)
15	07:48 16:24	07:08 17:15	06:12 18:00	06:07 19:48	05:14 20:33	19:58 (3) 20:04 (3)
16	07:47 16:25	07:06 17:16	06:10 18:02	06:05 19:50	05:12 20:34	19:58 (3) 20:06 (3)
17	07:47 16:27	07:04 17:18	06:08 18:03	06:03 19:51	05:11 20:36	19:58 (3) 20:07 (3)
18	07:46 16:28	07:02 17:20	16:50 (1) 16:53 (1)	06:06 18:05	05:10 20:37	19:58 (3) 20:09 (3)
19	07:45 16:30	07:01 17:21	16:49 (1) 16:55 (1)	06:04 18:07	05:09 20:38	19:57 (3) 20:09 (3)
20	07:44 16:31	06:59 17:23	16:48 (1) 16:57 (1)	06:02 18:08	05:07 20:40	19:57 (3) 20:10 (3)
21	07:43 16:33	06:57 17:25	16:48 (1) 16:59 (1)	05:59 18:10	05:06 20:41	19:58 (3) 20:12 (3)
22	07:42 16:35	06:55 17:26	16:48 (1) 17:01 (1)	05:57 18:11	05:05 20:42	19:58 (3) 20:13 (3)
23	07:41 16:36	06:53 17:28	16:48 (1) 17:03 (1)	05:55 18:13	05:04 20:43	19:58 (3) 20:14 (3)
24	07:40 16:38	06:51 17:30	16:48 (1) 17:05 (1)	05:53 18:14	05:03 20:45	19:59 (3) 20:15 (3)
25	07:39 16:39	06:49 17:31	16:48 (1) 17:07 (1)	05:51 18:16	05:02 20:46	19:59 (3) 20:16 (3)
26	07:38 16:41	06:47 17:33	16:49 (1) 17:08 (1)	05:49 18:17	05:01 20:47	20:00 (3) 20:17 (3)
27	07:36 16:43	06:45 17:35	16:50 (1) 17:09 (1)	05:47 18:19	05:00 20:48	20:00 (3) 20:17 (3)
28	07:35 16:44	06:43 17:36	16:50 (1) 17:07 (1)	05:44 18:20	04:59 20:49	20:02 (3) 20:17 (3)
29	07:34 16:46		06:42 19:22	05:40 18:56 (2)	04:58 20:51	20:03 (3) 20:16 (3)
30	07:33 16:48		06:40 19:24	05:38 18:58 (2)	04:57 20:52	20:04 (3) 20:15 (3)
31	07:31 16:49		06:38 19:25	05:36 18:51 (2)	04:56 20:53	20:05 (3) 20:14 (3)
Potential sun hours	269	283	368	411	475	486
Total, worst case		148	197	5	228	6

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

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

SHADOW - Calendar

Shadow receptor: I - RB9

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

July		August		September		October		November		December	
1	04:53 21:07		05:26 20:39	06:11 19:42		06:55 18:37		06:44 16:36	07:30 16:00		
2	04:54 21:07		05:28 20:37	06:12 19:40		06:56 18:35		06:45 16:35	07:31 16:00		
3	04:55 21:06		05:29 20:36	06:14 19:38		06:58 18:33		06:47 16:33	07:33 15:59		
4	04:55 21:06		05:30 20:34	06:15 19:36		06:59 18:31		06:48 16:31	07:34 15:59		
5	04:56 21:06		05:32 20:33	06:17 19:33		07:01 18:29		06:50 16:30	07:35 15:58		
6	04:57 21:05		05:33 20:31	06:18 19:31		07:02 18:27		06:52 16:28	07:36 15:58		
7	04:58 21:05		05:35 20:29	06:20 19:29		07:04 18:25		06:53 16:27	07:38 15:58		
8	04:58 21:04		05:36 20:28	06:21 19:27		07:05 18:22		06:55 16:25	07:39 15:57		
9	04:59 21:03		05:37 20:26	06:23 19:25		07:07 18:20		06:57 16:24	07:40 15:57		
10	05:00 21:03		05:39 20:24	06:24 19:23		07:09 18:18		06:58 16:22	07:41 15:57		
11	05:01 21:02	3	05:40 20:19 (3)	06:25 19:21	2	18:37 (2) 18:39 (2)	07:10 18:16		07:00 16:21	07:42 15:57	
12	05:02 21:01	7	05:42 20:14 (3) 20:21 (3)	06:27 19:18	12	18:31 (2) 18:43 (2)	07:12 18:14	11	17:27 (1) 17:38 (1)	07:01 16:19	07:43 15:57
13	05:03 21:01	11	05:43 20:12 (3) 20:23 (3)	06:28 19:16	16	07:13 18:28 (2) 18:44 (2)	18:12	15	17:24 (1) 17:39 (1)	07:03 16:18	07:44 15:57
14	05:04 21:00	12	05:45 20:12 (3) 20:24 (3)	06:30 19:14	19	07:15 18:46 (2)	18:10	19	17:22 (1) 17:41 (1)	07:05 16:17	07:45 15:57
15	05:05 20:59	14	05:46 20:11 (3) 20:25 (3)	06:31 19:12	21	07:16 18:25 (2) 18:46 (2)	18:08	21	17:21 (1) 17:42 (1)	07:06 16:15	07:46 15:57
16	05:06 20:58	16	05:48 20:10 (3) 20:26 (3)	06:33 19:10	19	07:18 18:25 (2) 18:44 (2)	18:06	19	17:20 (1) 17:39 (1)	07:08 16:14	07:46 15:57
17	05:07 20:57	16	05:49 20:10 (3) 20:26 (3)	06:34 19:08	19	07:19 18:23 (2) 18:42 (2)	18:04	17	17:20 (1) 17:37 (1)	07:09 16:13	07:47 15:57
18	05:09 20:56	17	05:50 20:09 (3) 20:26 (3)	06:36 19:05	17	07:21 18:22 (2) 18:39 (2)	18:02	17	17:19 (1) 17:36 (1)	07:11 16:12	07:48 15:58
19	05:10 20:55	16	05:52 20:09 (3) 20:25 (3)	06:37 19:03	16	07:23 18:22 (2) 18:38 (2)	18:00	14	17:19 (1) 17:33 (1)	07:13 16:11	07:49 15:58
20	05:11 20:54	16	05:53 20:08 (3) 20:24 (3)	06:39 19:01	13	07:24 18:22 (2) 18:35 (2)	17:58	12	17:19 (1) 17:31 (1)	07:14 16:09	07:49 15:58
21	05:12 20:53	15	05:55 20:09 (3) 20:24 (3)	06:40 18:59	11	07:26 18:22 (2) 18:33 (2)	17:56	10	17:19 (1) 17:29 (1)	07:16 16:08	07:50 15:59
22	05:13 20:52	15	05:56 20:08 (3) 20:23 (3)	06:42 18:57	9	07:27 18:22 (2) 18:31 (2)	17:54	8	17:19 (1) 17:27 (1)	07:17 16:07	07:50 15:59
23	05:14 20:51	14	05:58 20:08 (3) 20:22 (3)	06:43 18:55	6	07:29 18:23 (2) 18:29 (2)	17:52	5	17:20 (1) 17:25 (1)	07:19 16:06	07:51 16:00
24	05:16 20:50	12	05:59 20:08 (3) 20:20 (3)	06:44 18:52	3	07:31 18:26 (2) 17:51	17:51	2	17:21 (1) 17:23 (1)	07:20 16:06	07:51 16:00
25	05:17 20:48	12	06:01 20:07 (3) 20:19 (3)	06:46 18:50		06:32 16:49			07:22 16:05	07:52 16:01	
26	05:18 20:47	11	06:02 20:08 (3) 20:19 (3)	06:47 18:48		06:34 16:47			07:23 16:04	07:52 16:02	
27	05:20 20:46	9	06:04 20:08 (3) 20:17 (3)	06:49 18:46		06:35 16:45			07:25 16:03	07:52 16:02	
28	05:21 20:44	8	06:05 20:08 (3) 20:16 (3)	06:50 18:44		06:37 16:43			07:26 16:02	07:53 16:03	
29	05:22 20:43	6	06:06 20:08 (3) 20:14 (3)	06:52 18:42		06:39 16:41			07:27 16:02	07:53 16:04	
30	05:24 20:42	5	06:08 20:09 (3) 20:14 (3)	06:53 18:39		06:40 16:40			07:29 16:01	07:53 16:05	
31	05:25 20:40	2	06:09 20:10 (3) 20:12 (3)	06:09 19:44		06:42 16:38				07:53 16:06	
Potential sun hours		490		447	379		335		275		256
Total, worst case		237			183		170				

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

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

Shadow receptor: J - RB10

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:53 16:07	07:30 16:51	06:41 17:38	16:51 (1) 17:13 (1)	06:36 19:27	18:42 (2) 19:02 (2)	05:36 20:12	04:55 20:54	20:14 (3) 20:24 (3)
2	07:53 16:08	07:29 16:53	06:39 17:39	16:52 (1) 17:14 (1)	06:34 19:28	18:42 (2) 19:04 (2)	05:34 20:14	04:55 20:55	20:13 (3) 20:24 (3)
3	07:53 16:09	07:27 16:54	06:37 17:41	16:53 (1) 17:13 (1)	06:32 19:30	18:43 (2) 19:05 (2)	05:33 20:15	04:54 20:56	20:14 (3) 20:26 (3)
4	07:53 16:10	07:26 16:56	06:35 17:43	16:54 (1) 17:11 (1)	06:29 19:31	18:43 (2) 19:05 (2)	05:31 20:17	04:53 20:57	20:14 (3) 20:26 (3)
5	07:53 16:11	07:24 16:58	06:33 17:44	16:56 (1) 17:09 (1)	06:27 19:33	18:44 (2) 19:04 (2)	05:29 20:18	04:53 20:58	20:14 (3) 20:28 (3)
6	07:52 16:12	07:23 16:59	06:31 17:46	16:59 (1) 17:06 (1)	06:25 19:34	18:46 (2) 19:02 (2)	05:28 20:20	04:52 20:58	20:14 (3) 20:28 (3)
7	07:52 16:13	07:21 17:01	06:29 17:48		19:36	18:48 (2) 19:00 (2)	05:26 20:21	04:52 20:59	20:15 (3) 20:29 (3)
8	07:52 16:15	07:20 17:03	06:27 17:49		06:21 19:37		05:24 20:23	04:51 21:00	20:14 (3) 20:29 (3)
9	07:51 16:16	07:18 17:04	06:25 17:51		06:19 19:39		05:23 20:24	04:51 21:01	20:15 (3) 20:30 (3)
10	07:51 16:17	07:16 17:06	06:23 17:52		06:17 19:40		05:21 20:26	04:50 21:02	20:16 (3) 20:31 (3)
11	07:50 16:19	07:15 17:08	06:21 17:54		06:15 19:42		05:20 20:27	04:50 21:02	20:16 (3) 20:32 (3)
12	07:50 16:20	07:13 17:10	06:19 17:56		06:13 19:44		05:18 20:29	04:50 21:03	20:16 (3) 20:32 (3)
13	07:49 16:21	07:11 17:11	06:17 17:57		06:11 19:45		05:17 20:30	04:50 21:04	20:16 (3) 20:32 (3)
14	07:49 16:23	07:10 17:13	06:14 17:59		06:09 19:47		05:15 20:31	04:49 21:04	20:17 (3) 20:33 (3)
15	07:48 16:24	07:08 17:15	06:12 18:00		06:07 19:48		05:14 20:33	04:49 21:05	20:17 (3) 20:34 (3)
16	07:47 16:25	07:06 17:16	06:10 18:02		06:05 19:50		05:12 20:34	04:49 21:05	20:17 (3) 20:34 (3)
17	07:47 16:27	07:04 17:18	06:08 18:03		06:03 19:51		05:11 20:36	04:49 21:06	20:17 (3) 20:34 (3)
18	07:46 16:28	07:02 17:20	06:06 18:05		06:01 19:53		05:10 20:37	04:49 21:06	20:18 (3) 20:35 (3)
19	07:45 16:30	07:01 17:21	06:04 18:07		05:59 19:54		05:09 20:38	04:49 21:06	20:18 (3) 20:35 (3)
20	07:44 16:31	06:59 17:23	16:55 (1) 18:08		06:02 19:56		05:07 20:40	04:49 21:07	20:18 (3) 20:35 (3)
21	07:43 16:33	06:57 17:25	16:54 (1) 18:10		05:59 19:57		05:06 20:41	04:50 21:07	20:19 (3) 20:36 (3)
22	07:42 16:35	06:55 17:26	16:54 (1) 18:11		05:57 19:59		05:05 20:42	04:50 21:07	20:19 (3) 20:36 (3)
23	07:41 16:36	06:53 17:28	16:53 (1) 18:13		05:55 20:00		05:04 20:43	04:50 21:07	20:19 (3) 20:36 (3)
24	07:40 16:38	06:51 17:30	16:52 (1) 18:14	17:49 (2)	05:49 20:02		05:03 20:45	20:14 (3) 20:15 (3)	04:50 21:07
25	07:39 16:39	06:49 17:31	17:05 (1) 18:16	17:50 (2) 17:51 (2)	20:02 20:03	1	20:14 (3) 20:16 (3)	04:51 21:07	20:20 (3) 20:37 (3)
26	07:38 16:41	06:47 17:33	16:52 (1) 18:17	17:46 (2) 17:53 (2)	05:45 20:05	2	20:13 (3) 20:17 (3)	04:51 21:07	20:19 (3) 20:36 (3)
27	07:36 16:43	06:45 17:35	16:52 (1) 17:10 (1)	17:45 (2) 17:55 (2)	05:43 20:06	5	20:14 (3) 20:19 (3)	04:51 21:07	20:20 (3) 20:37 (3)
28	07:35 16:44	06:43 17:36	16:51 (1) 17:11 (1)	17:44 (2) 17:56 (2)	05:41 20:08	6	20:14 (3) 20:20 (3)	04:52 21:07	20:20 (3) 20:36 (3)
29	07:34 16:46		06:42 19:22	18:43 (2) 18:58 (2)	05:40 20:09	8	20:13 (3) 20:21 (3)	04:52 21:07	20:20 (3) 20:37 (3)
30	07:33 16:48		06:40 19:24	18:43 (2) 19:00 (2)	05:38 20:11	9	20:13 (3) 20:22 (3)	04:53 21:07	20:20 (3) 20:36 (3)
31	07:31 16:49		06:38 19:25	18:42 (2) 19:00 (2)		9	20:13 (3) 20:22 (3)		
Potential sun hours	269	283	368	411	475	486			
Total, worst case		106	185	134	44	466			

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

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

SHADOW - Calendar

Shadow receptor: J - RB10

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July			August		September		October			November		December	
1	04:53		20:20 (3)	05:26		06:11		06:55			06:44		07:30	
	21:07	16	20:36 (3)	20:39		19:42		18:37			16:36		16:00	
2	04:54		20:20 (3)	05:28		06:12		06:56			06:45		07:31	
	21:07	15	20:35 (3)	20:37		19:40		18:35			16:35		16:00	
3	04:55		20:20 (3)	05:29		06:14		06:58			06:47		07:33	
	21:06	15	20:35 (3)	20:36		19:38		18:33			16:33		15:59	
4	04:55		20:21 (3)	05:30		06:15		06:59			06:48		07:34	
	21:06	14	20:35 (3)	20:34		19:36		18:31			16:31		15:59	
5	04:56		20:20 (3)	05:32		06:17	18:44 (2)	07:01			06:50		07:35	
	21:06	14	20:34 (3)	20:33		19:33	12	18:56 (2)	18:29		16:30		15:58	
6	04:57		20:20 (3)	05:33		06:18		18:42 (2)	07:02		06:52		07:36	
	21:05	14	20:34 (3)	20:31		19:31	16	18:58 (2)	18:27		16:28		15:58	
7	04:58		20:21 (3)	05:35		06:20		18:39 (2)	07:04		06:53		07:38	
	21:05	13	20:34 (3)	20:29		19:29	20	18:59 (2)	18:25		16:27		15:58	
8	04:59		20:21 (3)	05:36		06:21		18:37 (2)	07:05	17:32 (1)	06:55		07:39	
	21:04	13	20:34 (3)	20:28		19:27	22	18:59 (2)	18:22	11	17:43 (1)	16:25	15:57	
9	04:59		20:21 (3)	05:37		06:23		18:37 (2)	07:07		17:30 (1)	06:57	07:40	
	21:03	12	20:33 (3)	20:26		19:25	22	18:59 (2)	18:20	16	17:46 (1)	16:24	15:57	
10	05:00		20:21 (3)	05:39		06:24		18:35 (2)	07:09		17:28 (1)	06:58	07:41	
	21:03	11	20:32 (3)	20:24		19:23	22	18:57 (2)	18:18	19	17:47 (1)	16:22	15:57	
11	05:01		20:21 (3)	05:40		06:25		18:35 (2)	07:10		17:26 (1)	07:00	07:42	
	21:02	11	20:32 (3)	20:23		19:21	20	18:55 (2)	18:16	22	17:48 (1)	16:21	15:57	
12	05:02		20:21 (3)	05:42		06:27		18:34 (2)	07:12		17:26 (1)	07:01	07:43	
	21:01	10	20:31 (3)	20:21		19:18	19	18:53 (2)	18:14	22	17:48 (1)	16:19	15:57	
13	05:03		20:21 (3)	05:43		06:28		18:33 (2)	07:13		17:24 (1)	07:03	07:44	
	21:01	9	20:30 (3)	20:19		19:16	17	18:50 (2)	18:12	21	17:45 (1)	16:18	15:57	
14	05:04		20:22 (3)	05:45		06:30		18:34 (2)	07:15		17:24 (1)	07:05	07:45	
	21:00	8	20:30 (3)	20:17		19:14	15	18:49 (2)	18:10	19	17:43 (1)	16:17	15:57	
15	05:05		20:22 (3)	05:46		06:31		18:33 (2)	07:16		17:24 (1)	07:06	07:46	
	20:59	7	20:29 (3)	20:15		19:12	13	18:46 (2)	18:08	18	17:42 (1)	16:15	15:57	
16	05:06		20:22 (3)	05:48		06:33		18:34 (2)	07:18		17:23 (1)	07:08	07:46	
	20:58	6	20:28 (3)	20:13		19:10	10	18:44 (2)	18:06	16	17:39 (1)	16:14	15:57	
17	05:07		20:23 (3)	05:49		06:34		18:34 (2)	07:19		17:23 (1)	07:09	07:47	
	20:57	4	20:27 (3)	20:12		19:08	8	18:42 (2)	18:04	14	17:37 (1)	16:13	15:57	
18	05:09		20:23 (3)	05:50		06:36		18:35 (2)	07:21		17:24 (1)	07:11	07:48	
	20:56	3	20:26 (3)	20:10		19:05	5	18:40 (2)	18:02	12	17:36 (1)	16:12	15:58	
19	05:10		20:23 (3)	05:52		06:37		18:36 (2)	07:23		17:23 (1)	07:13	07:49	
	20:55	2	20:25 (3)	20:08		19:03	2	18:38 (2)	18:00	10	17:33 (1)	16:11	15:58	
20	05:11			05:53		06:39		07:24			17:24 (1)	07:14	07:49	
	20:54			20:06		19:01		17:58		7	17:31 (1)	16:09	15:58	
21	05:12			05:55		06:40		07:26			17:26 (1)	07:16	07:50	
	20:53			20:04		18:59		17:56		3	17:29 (1)	16:08	15:59	
22	05:13			05:56		06:42		07:27			17:26 (1)	07:17	07:50	
	20:52			20:02		18:57		17:54		1	17:27 (1)	16:07	15:59	
23	05:14			05:58		06:43		07:29				07:19	07:51	
	20:51			20:00		18:55		17:52				16:06	16:00	
24	05:16			05:59		06:44		07:31				07:20	07:51	
	20:50			19:58		18:52		17:51				16:06	16:00	
25	05:17			06:01		06:46		06:32				07:22	07:52	
	20:48			19:56		18:50		16:49				16:05	16:01	
26	05:18			06:02		06:47		06:34				07:23	07:52	
	20:47			19:54		18:48		16:47				16:04	16:02	
27	05:20			06:04		06:49		06:35				07:25	07:52	
	20:46			19:52		18:46		16:45				16:03	16:02	
28	05:21			06:05		06:50		06:37				07:26	07:53	
	20:44			19:50		18:44		16:43				16:02	16:03	
29	05:22			06:06		06:52		06:39				07:27	07:53	
	20:43			19:48		18:42		16:41				16:02	16:04	
30	05:24			06:08		06:53		06:40				07:29	07:53	
	20:42			19:46		18:39		16:40				16:01	16:05	
31	05:25			06:09				06:42					07:53	
	20:40			19:44				16:38					16:06	
Potential sun hours	490			447		379		335		211		275	256	
Total, worst case		197					223							

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

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

Shadow receptor: K - RB11

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

The sun is shining all the day, from sunrise to sunset

The rotor plane is always perpendicular to the line from the WTG to the sun

The WTG is always operating

		January	February	March	April	May		June		July		August	September	October	November	December		
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:12			04:55 20:54	12	20:12 (1) 20:24 (1)	04:53 21:07	19	20:17 (1) 20:36 (1)	05:26 20:39	06:11 19:42	06:55 18:37	06:43 16:36	07:30 16:00
2	07:53 16:08	07:29 16:53	06:39 17:39	06:34 19:28	05:34 20:14			04:55 20:55	13	20:11 (1) 20:24 (1)	04:54 21:07	19	20:16 (1) 20:35 (1)	05:28 20:37	06:12 19:40	06:56 18:35	06:45 16:35	07:31 16:00
3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 19:30	05:33 20:15			04:54 20:56	14	20:12 (1) 20:26 (1)	04:55 21:06	18	20:17 (1) 20:35 (1)	05:29 20:36	06:14 19:38	06:58 18:33	06:47 16:33	07:33 15:59
4	07:53 16:10	07:26 16:56	06:35 17:43	06:29 19:31	05:31 20:17			04:53 20:57	15	20:11 (1) 20:26 (1)	04:55 21:06	17	20:18 (1) 20:35 (1)	05:30 20:34	06:15 19:36	06:59 18:31	06:48 16:31	07:34 15:59
5	07:53 16:11	07:24 16:58	06:33 17:44	06:27 19:33	05:29 20:18			04:53 20:58	15	20:12 (1) 20:27 (1)	04:56 21:05	17	20:17 (1) 20:34 (1)	05:32 20:33	06:17 19:33	07:01 18:29	06:50 16:30	07:35 15:58
6	07:52 16:12	07:23 16:59	06:31 17:46	06:25 19:34	05:28 20:20			04:52 20:58	17	20:11 (1) 20:28 (1)	04:57 21:05	16	20:18 (1) 20:34 (1)	05:33 20:31	06:18 19:31	07:02 18:27	06:52 16:28	07:36 15:58
7	07:52 16:13	07:21 17:01	06:29 17:48	06:23 19:36	05:26 20:21			04:52 20:59	17	20:12 (1) 20:29 (1)	04:58 21:05	16	20:18 (1) 20:34 (1)	05:35 20:29	06:20 19:29	07:04 18:25	06:53 16:27	07:37 15:58
8	07:52 16:15	07:20 17:03	06:27 17:49	06:21 19:37	05:24 20:23			04:51 21:00	18	20:11 (1) 20:29 (1)	04:59 21:04	15	20:19 (1) 20:34 (1)	05:36 20:28	06:21 19:27	07:05 18:22	06:55 16:25	07:39 15:57
9	07:51 16:16	07:18 17:04	06:25 17:51	06:19 19:39	05:23 20:24			04:51 21:01	18	20:12 (1) 20:30 (1)	04:59 21:03	14	20:19 (1) 20:33 (1)	05:37 20:26	06:23 19:25	07:07 18:20	06:57 16:24	07:40 15:57
10	07:51 16:17	07:16 17:06	06:23 17:52	06:17 19:40	05:21 20:26			04:51 21:02	19	20:12 (1) 20:31 (1)	05:00 21:03	13	20:19 (1) 20:32 (1)	05:39 20:24	06:24 19:23	07:09 18:18	06:58 16:22	07:41 15:57
11	07:50 16:19	07:15 17:08	06:21 17:54	06:15 19:42	05:20 20:27			04:50 21:02	19	20:13 (1) 20:32 (1)	05:01 21:02	12	20:19 (1) 20:31 (1)	05:40 20:22	06:25 19:21	07:10 18:16	07:00 16:21	07:42 15:57
12	07:50 16:20	07:13 17:10	06:19 17:56	06:13 19:44	05:18 20:29			04:50 21:03	20	20:12 (1) 20:32 (1)	05:02 21:01	11	20:20 (1) 20:31 (1)	05:42 20:21	06:27 19:18	07:12 18:14	07:01 16:19	07:43 15:57
13	07:49 16:21	07:11 17:11	06:16 17:57	06:11 19:45	05:17 20:30			04:50 21:03	20	20:12 (1) 20:32 (1)	05:03 21:01	10	20:20 (1) 20:30 (1)	05:43 20:19	06:28 19:16	07:13 18:12	07:03 16:18	07:44 15:57
14	07:49 16:23	07:10 17:13	06:14 17:59	06:09 19:47	05:15 20:31			04:50 21:04	20	20:13 (1) 20:33 (1)	05:04 21:00	9	20:21 (1) 20:30 (1)	05:45 20:17	06:30 19:14	07:15 18:10	07:05 16:17	07:45 15:57
15	07:48 16:24	07:08 17:15	06:12 18:00	06:07 19:48	05:14 20:33			04:49 21:05	20	20:13 (1) 20:33 (1)	05:05 20:59	7	20:22 (1) 20:29 (1)	05:46 20:15	06:31 19:12	07:16 18:08	07:06 16:15	07:45 15:57
16	07:47 16:26	07:06 17:16	06:10 18:02	06:05 19:50	05:13 20:34			04:49 21:05	21	20:13 (1) 20:34 (1)	05:06 20:58	6	20:22 (1) 20:28 (1)	05:48 20:13	06:33 19:10	07:18 18:06	07:08 16:14	07:46 15:57
17	07:46 16:27	07:04 17:18	06:08 18:03	06:03 19:51	05:11 20:36			04:49 21:05	21	20:13 (1) 20:34 (1)	05:07 20:57	4	20:23 (1) 20:27 (1)	05:49 20:12	06:34 19:08	07:19 18:04	07:09 16:13	07:47 15:57
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19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 19:54	05:09 20:38			04:49 21:06	21	20:14 (1) 20:35 (1)	05:10 20:55		05:52 20:08	06:37 19:03	07:23 18:00	07:13 16:11	07:48 15:58	
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30	07:33 16:48		06:40 19:24	05:38 20:11	04:57 20:52	20:13 (1)	04:53	21:07	20	20:18 (1) 20:36 (1)	05:24 20:42		06:08 19:46	06:53 18:39	07:38 18:40	07:29 16:01	07:53 16:05	
31	07:31 16:49		06:38 19:25		04:56 20:53	20:13 (1)	04:53	21:07			05:25 20:40		06:09 19:44		06:42 16:38		07:53 16:06	
Potential sun hours	269	283	368	411	475	486	490	447	379	335	275	256						
Total, worst case					43	568	225											

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: Sazomin
Description: Sazomin

Licensed user:
Integra Consulting Ltd.
Sudoměřská 1243/25
CZ-130 00 Praha 3
+420 724 110 779
Integra Consulting / windpro@integracons.com
Calculated:
30.05.2025 11:03/4.1.273

SHADOW - Calendar

Shadow receptor: L - RB12

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:12	04:55 20:54	20:23 (1) 21:07	20:24 (1) 20:39	05:26 19:42	06:11 18:37	06:55 16:36	06:43 16:00
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3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 19:30	05:33 20:15	04:54 20:56	20:21 (1) 21:06	20:25 (1) 20:36	05:29 19:38	06:14 18:33	06:58 16:33	06:47 15:59
4	07:53 16:10	07:26 16:56	06:35 17:43	06:29 19:31	05:31 20:17	04:53 20:57	20:21 (1) 21:06	20:25 (1) 20:34	05:30 19:36	06:15 18:31	06:59 16:31	06:48 15:59
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8	07:52 16:15	07:20 17:03	06:27 17:49	06:21 19:37	05:24 20:23	04:51 21:00	20:19 (1) 21:04	20:28 (1) 20:28	05:36 19:27	06:21 18:22	07:05 16:25	06:55 15:57
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10	07:51 16:17	07:16 17:06	06:23 17:52	06:17 19:40	05:21 20:26	04:51 21:02	20:20 (1) 21:03	20:28 (1) 20:24	05:39 19:23	06:24 18:18	07:09 16:22	06:58 15:57
11	07:50 16:19	07:15 17:08	06:21 17:54	06:15 19:42	05:20 20:27	04:50 21:02	20:20 (1) 21:02	20:29 (1) 20:22	05:40 19:21	06:25 18:16	07:10 16:21	07:00 15:57
12	07:50 16:20	07:13 17:10	06:19 17:56	06:13 19:44	05:18 20:29	04:50 21:03	20:19 (1) 21:01	05:42 20:21	05:38 19:18	06:27 18:14	07:12 16:19	07:01 15:57
13	07:49 16:21	07:11 17:11	06:16 17:57	06:11 19:45	05:17 20:30	04:50 21:03	20:20 (1) 21:01	05:43 20:19	06:28 19:16	07:13 18:12	07:03 16:18	07:04 15:57
14	07:49 16:23	07:10 17:13	06:14 17:59	06:09 19:47	05:15 20:31	04:50 21:04	20:20 (1) 21:00	05:45 20:17	06:30 19:14	07:15 18:10	07:05 16:17	07:45 15:57
15	07:48 16:24	07:08 17:15	06:12 18:00	06:07 19:48	05:14 20:33	04:49 21:05	20:20 (1) 20:59	05:46 20:15	06:31 19:12	07:16 18:08	07:06 16:15	07:45 15:57
16	07:47 16:26	07:06 17:16	06:10 18:02	06:05 19:50	05:13 20:34	04:49 21:05	20:20 (1) 20:58	05:48 20:13	06:33 19:10	07:18 18:06	07:08 16:14	07:46 15:57
17	07:46 16:27	07:04 17:18	06:08 18:03	06:03 19:51	05:11 20:36	04:49 21:05	20:20 (1) 20:57	05:49 20:12	06:34 19:08	07:19 18:04	07:09 16:13	07:47 15:57
18	07:46 16:28	07:02 17:20	06:06 18:05	06:01 19:53	05:10 20:37	04:49 21:06	20:20 (1) 20:56	05:50 20:10	06:36 19:05	07:21 18:02	07:11 16:12	07:48 15:58
19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 19:54	05:09 20:38	04:49 21:06	20:20 (1) 20:55	05:52 20:08	06:37 19:03	07:23 18:00	07:13 16:11	07:48 15:58
20	07:44 16:32	06:59 17:23	06:02 18:08	05:57 19:56	05:07 20:40	04:49 21:07	20:20 (1) 20:54	05:53 20:06	06:39 19:01	07:24 17:58	07:14 16:10	07:49 15:58
21	07:43 16:33	06:57 17:25	05:59 18:10	05:55 19:57	05:06 20:41	04:50 21:07	20:21 (1) 20:53	05:55 20:04	06:40 18:59	07:26 17:56	07:16 16:08	07:50 15:59
22	07:42 16:35	06:55 17:26	05:57 18:11	05:53 19:59	05:05 20:42	04:50 21:07	20:21 (1) 20:52	05:56 20:02	06:42 18:57	07:27 17:54	07:17 16:07	07:50 15:59
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31	07:31 16:49		06:38 19:25		04:56 20:53		05:25 20:40	06:09 19:44		06:42 16:38		07:53 16:06
Potential sun hours	269	283	368	411	475	486	490	447	379	335	275	256
Total, worst case						345	84					

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

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

SHADOW - Calendar

Shadow receptor: M - RB13

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:12	04:55 20:54	04:53 21:07	05:26 20:39	06:11 19:42	06:55 18:37	06:43 16:36	07:30 16:00
2	07:53 16:08	07:29 16:53	06:39 17:39	06:34 19:28	05:34 20:14	04:55 20:55	04:54 21:07	05:28 20:37	06:12 19:40	06:56 18:35	06:45 16:35	07:31 16:00
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4	07:53 16:10	07:26 16:56	06:35 17:43	06:29 19:31	05:31 20:17	04:53 20:57	04:55 21:06	05:30 20:34	06:15 19:36	06:59 18:31	06:48 16:31	07:34 15:59
5	07:53 16:11	07:24 16:58	06:33 17:44	06:27 19:33	05:29 20:18	04:53 20:58	04:56 21:05	05:32 20:33	06:17 19:33	07:01 18:29	06:50 16:30	07:35 15:58
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11	07:50 16:19	07:15 17:08	06:21 17:54	06:15 19:42	05:20 20:27	04:50 21:02	05:01 21:02	05:40 20:22	06:25 19:21	07:10 18:16	07:00 16:21	07:42 15:57
12	07:50 16:20	07:13 17:10	06:19 17:56	06:13 19:44	05:18 20:29	04:50 21:03	05:02 21:01	05:42 20:21	06:27 19:18	07:12 18:14	07:01 16:19	07:43 15:57
13	07:49 16:21	07:11 17:11	06:16 17:57	06:11 19:45	05:17 20:30	04:50 21:03	05:03 21:01	05:43 20:19	06:28 19:16	07:13 18:12	07:03 16:18	07:44 15:57
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17	07:46 16:27	07:04 17:18	06:08 18:03	06:03 19:51	05:11 20:36	04:49 21:05	05:07 20:57	05:49 20:12	06:34 19:08	07:19 18:04	07:09 16:13	07:47 15:57
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19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 19:54	05:09 20:38	04:49 21:06	05:10 20:55	05:52 20:08	06:37 19:03	07:23 18:00	07:13 16:11	07:48 15:58
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31	07:31 16:49		06:38 19:25		04:56 20:53		05:25 20:40	06:09 19:44		06:42 17:38		07:53 16:06
Potential sun hours Total, worst case	269	283	368	411	475	486	490	447	379	335	275	256

Table 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		

Project: Sazomin
Description: Sazomin

Licensed user:
Integra Consulting Ltd.
Sudoměřská 1243/25
CZ-130 00 Praha 3
+420 724 110 779
Integra Consulting / windpro@integracons.com
Calculated:
30.05.2025 11:03/4.1.273

SHADOW - Calendar

Shadow receptor: N - RB14

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:13	04:56 20:54	05:31 (1) 05:46 (1)	04:54 21:07	05:26 20:39	05:53 (1) 05:55 (1)	06:11 19:42	06:55 18:37	06:44 16:36	07:30 16:00
2	07:53 16:08	07:29 16:53	06:39 17:40	06:34 19:28	05:35 20:14	04:55 20:55	05:31 (1) 05:45 (1)	04:54 21:07	05:28 20:37		06:12 19:40	06:57 18:35	06:45 16:35	07:31 16:01
3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 19:30	05:33 20:16	04:54 20:56	05:33 (1) 05:45 (1)	04:55 21:06	05:29 20:36		06:14 19:38	06:58 18:33	06:47 16:33	07:33 15:59
4	07:53 16:10	07:26 16:56	06:35 17:43	06:30 19:31	05:31 20:17	04:54 20:57	05:33 (1) 05:44 (1)	04:56 21:06	05:31 20:34		06:15 19:36	07:00 18:31	06:49 16:31	07:34 15:59
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10	07:51 16:17	07:16 17:06	06:23 17:53	06:17 19:41	05:21 20:26	04:51 21:02	05:00 21:03	05:00 21:03	05:39 20:24	05:40 (1)	06:24 19:23	07:09 18:18	06:58 16:22	07:41 15:57
11	07:51 16:19	07:15 17:08	06:21 17:54	06:15 19:42	05:20 20:27	04:50 21:02	05:01 21:02	05:01 21:02	05:39 20:23	05:40 (1)	06:26 19:21	07:10 18:16	07:00 16:21	07:42 15:57
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16	07:47 16:26	07:06 17:16	06:10 18:02	06:05 19:50	05:13 20:34	04:49 21:05	05:06 20:58	05:06 20:58	05:37 20:14	05:48 (1)	06:33 19:10	07:18 18:06	07:08 16:14	07:46 15:57
17	07:47 16:27	07:04 17:18	06:08 18:04	06:03 19:51	05:11 20:36	04:49 21:06	05:08 20:57	05:08 20:57	05:36 20:12	05:49 (1)	06:34 19:08	07:20 18:04	07:10 16:13	07:47 15:58
18	07:46 16:29	07:03 17:20	06:06 18:05	06:01 19:53	05:10 20:37	04:49 21:06	05:09 20:56	05:09 20:56	05:36 20:10	05:51 (1)	06:36 19:06	07:21 18:02	07:11 16:12	07:48 15:58
19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 19:54	05:09 20:38	04:49 21:06	05:10 20:55	05:10 20:55	05:38 20:08	05:52 (1)	06:37 19:03	07:23 18:00	07:13 16:11	07:49 15:58
20	07:44 16:32	06:59 17:23	06:02 18:08	05:57 19:56	05:07 20:40	04:50 21:07	05:11 20:54	05:11 20:54	05:39 20:06	05:54 (1)	06:39 19:01	07:24 17:58	07:14 16:10	07:49 15:59
21	07:43 16:33	06:57 17:25	06:00 18:10	05:55 19:57	05:06 20:41	04:50 21:07	05:12 20:53	05:12 20:53	05:40 20:04	05:55 (1)	06:40 18:59	07:26 17:56	07:16 16:09	07:50 15:59
22	07:42 16:35	06:55 17:26	05:57 18:11	05:53 19:59	05:05 20:42	04:50 21:07	05:13 20:52	05:13 20:52	05:41 20:02	05:56 (1)	06:42 18:57	07:27 17:54	07:17 16:08	07:50 15:59
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Potential sun hours	269	283	368	411	475	486	490	490	447	379	335	275	256	
Total, worst case					300	65	366	2						

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

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

SHADOW - Calendar

Shadow receptor: O - RB15

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:13	04:56 20:54	04:54 21:07	05:26 20:39	06:11 19:42	06:55 18:37	06:44 16:36	07:30 16:00
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31	07:31 16:49		06:38 19:25		04:56 20:53		05:25 20:40	06:10 19:44		06:42 17:38		07:53 16:06
Potential sun hours Total, worst case	269	283	368	411	475	486	490	447	379	335	275	256

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

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

SHADOW - Calendar

Shadow receptor: P - RB16

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

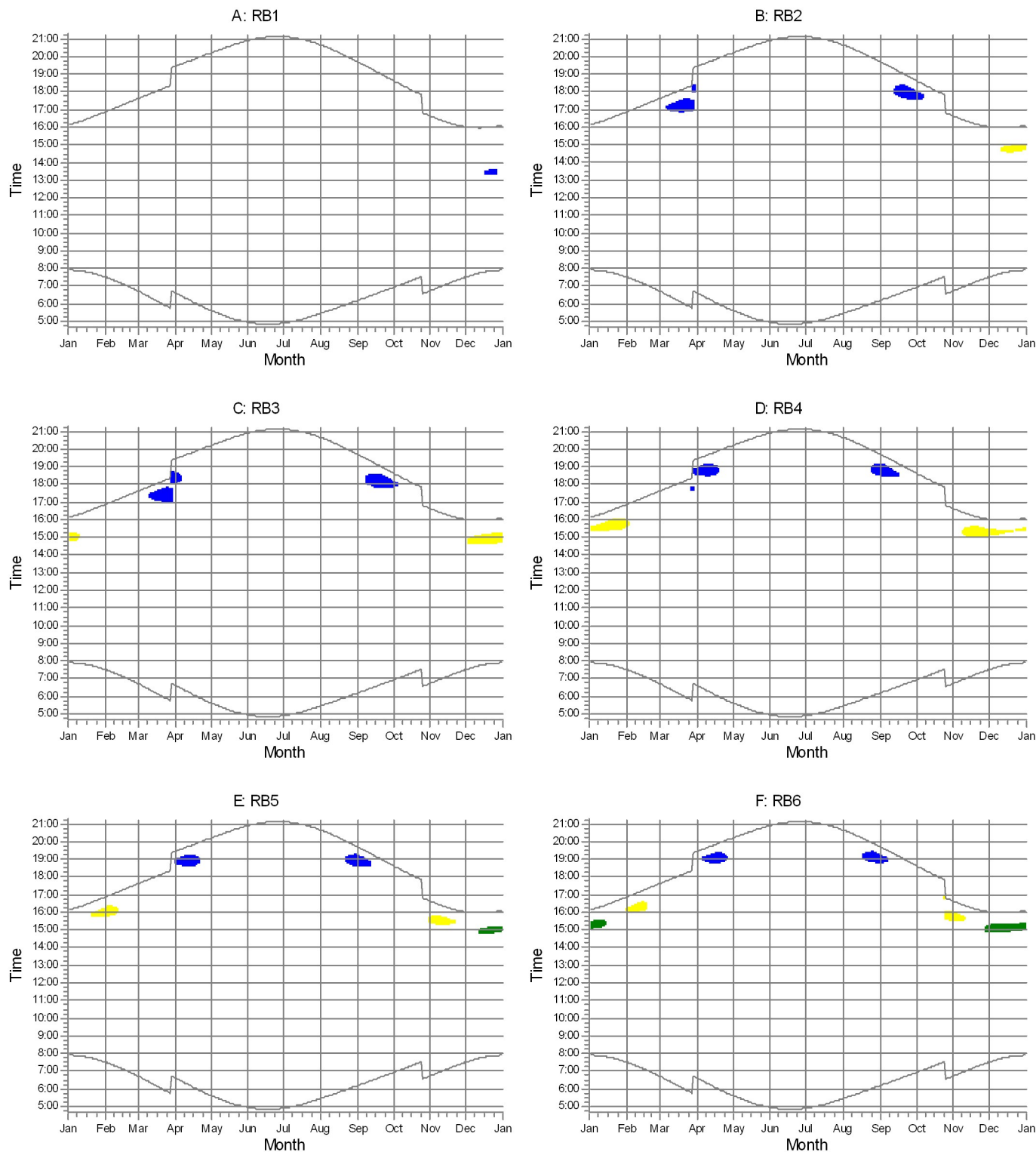
- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 19:27	05:36 20:13	04:56 20:54	04:54 21:07	05:26 20:39	06:11 19:42	06:55 18:37	06:44 16:36	07:30 16:00
2	07:53 16:08	07:29 16:53	06:39 17:40	06:34 19:28	05:35 20:14	04:55 20:55	04:54 21:07	05:28 20:37	06:13 19:40	06:57 18:35	06:45 16:35	07:32 16:00
3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 19:30	05:33 20:16	04:54 20:56	04:55 21:06	05:29 20:36	06:14 19:38	06:58 18:33	06:47 16:33	07:33 15:59
4	07:53 16:10	07:26 16:56	06:35 17:43	06:30 19:31	05:31 20:17	04:54 20:57	04:56 21:06	05:31 20:34	06:15 19:36	07:00 18:31	06:49 16:31	07:34 15:59
5	07:53 16:11	07:24 16:58	06:33 17:45	06:28 19:33	05:29 20:19	04:53 20:58	04:56 21:06	05:32 20:33	06:17 19:34	07:01 18:29	06:50 16:30	07:35 15:59
6	07:53 16:12	07:23 17:00	06:31 17:46	06:25 19:34	05:28 20:20	04:52 20:59	04:57 21:05	05:33 20:31	06:18 19:31	07:03 18:27	06:52 16:28	07:37 15:58
7	07:52 16:14	07:21 17:01	06:29 17:48	06:23 19:36	05:26 20:22	04:52 20:59	04:58 21:05	05:35 20:29	06:20 19:29	07:04 18:25	06:53 16:27	07:38 15:58
8	07:52 16:15	07:20 17:03	06:27 17:49	06:21 19:38	05:25 20:23	04:51 21:00	04:59 21:04	05:36 20:28	06:21 19:27	07:06 18:23	06:55 16:25	07:39 15:58
9	07:52 16:16	07:18 17:05	06:25 17:51	06:19 19:39	05:23 20:25	04:51 21:01	05:00 21:04	05:38 20:26	06:23 19:25	07:07 18:21	06:57 16:24	07:40 15:57
10	07:51 16:17	07:17 17:06	06:23 17:53	06:17 19:41	05:21 20:26	04:51 21:02	05:00 21:03	05:39 20:24	06:24 19:23	07:09 18:18	06:58 16:22	07:41 15:57
11	07:51 16:19	07:15 17:08	06:21 17:54	06:15 19:42	05:20 20:27	04:50 21:02	05:01 21:02	05:41 20:23	06:26 19:21	07:10 18:16	07:00 16:21	07:42 15:57
12	07:50 16:20	07:13 17:10	06:19 17:56	06:13 19:44	05:18 20:29	04:50 21:03	05:02 21:02	05:42 20:21	06:27 19:19	07:12 18:14	07:02 16:20	07:43 15:57
13	07:50 16:21	07:11 17:11	06:17 17:57	06:11 19:45	05:17 20:30	04:50 21:04	05:03 21:01	05:43 20:19	06:29 19:16	07:13 18:12	07:03 16:18	07:44 15:57
14	07:49 16:23	07:10 17:13	06:15 17:59	06:09 19:47	05:15 20:32	04:50 21:04	05:04 21:00	05:45 20:17	06:30 19:14	07:15 18:10	07:05 16:17	07:45 15:57
15	07:48 16:24	07:08 17:15	06:12 18:00	06:07 19:48	05:14 20:33	04:50 21:05	05:05 20:59	05:46 20:16	06:31 19:12	07:16 18:08	07:06 16:16	07:46 15:57
16	07:47 16:26	07:06 17:16	06:10 18:02	06:05 19:50	05:13 20:34	04:49 21:05	05:06 20:58	05:48 20:14	06:33 19:10	07:18 18:06	07:08 16:14	07:47 15:57
17	07:47 16:27	07:04 17:18	06:08 18:04	06:03 19:51	05:11 20:36	04:49 21:06	05:08 20:57	05:49 20:12	06:34 19:08	07:20 18:04	07:10 16:13	07:47 15:58
18	07:46 16:29	07:03 17:20	06:06 18:05	06:01 19:53	05:10 20:37	04:49 21:06	05:09 20:56	05:51 20:10	06:36 19:06	07:21 18:02	07:11 16:12	07:48 15:58
19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 19:54	05:09 20:38	04:49 21:06	05:10 20:55	05:52 20:08	06:37 19:03	07:23 18:00	07:13 16:11	07:49 15:58
20	07:44 16:32	06:59 17:23	06:02 18:08	05:57 19:56	05:08 20:40	04:50 21:07	05:11 20:54	05:54 20:06	06:39 19:01	07:24 17:58	07:14 16:10	07:49 15:59
21	07:43 16:33	06:57 17:25	06:00 18:10	05:55 19:57	05:06 20:41	04:50 21:07	05:12 20:53	05:55 20:04	06:40 18:59	07:26 17:56	07:16 16:09	07:50 15:59
22	07:42 16:35	06:55 17:26	05:57 18:11	05:53 19:59	05:05 20:42	04:50 21:07	05:13 20:52	05:56 20:02	06:42 18:57	07:28 17:54	07:17 16:08	07:50 15:59
23	07:41 16:36	06:53 17:28	05:55 18:13	05:51 20:01	05:04 20:44	04:50 21:07	05:15 20:51	05:58 20:00	06:43 18:55	07:29 17:53	07:19 16:07	07:51 16:00
24	07:40 16:38	06:51 17:30	05:53 18:14	05:49 20:02	05:03 20:45	04:50 21:07	05:16 20:50	05:59 19:58	06:45 18:53	07:31 17:51	07:20 16:06	07:51 16:01
25	07:39 16:40	06:49 17:31	05:51 18:16	05:47 20:04	05:02 20:46	04:51 21:08	05:17 20:49	06:01 19:56	06:46 18:50	06:32 17:49	07:22 16:05	07:52 16:01
26	07:38 16:41	06:47 17:33	05:49 18:18	05:45 20:05	05:01 20:47	04:51 21:08	05:18 20:47	06:02 19:54	06:48 18:48	06:34 17:47	07:23 16:04	07:52 16:02
27	07:37 16:43	06:45 17:35	05:47 18:19	05:43 20:07	05:00 20:48	04:52 21:08	05:20 20:46	06:04 19:52	06:49 18:46	06:36 17:45	07:25 16:03	07:52 16:03
28	07:35 16:44	06:43 17:36	05:45 18:21	05:42 20:08	04:59 20:50	04:52 21:08	05:21 20:45	06:05 19:50	06:51 18:44	06:37 17:43	07:26 16:02	07:53 16:03
29	07:34 16:46		06:42 19:22	05:40 20:10	04:58 20:51	04:52 21:07	05:22 20:43	06:07 19:48	06:52 18:42	06:39 17:42	07:28 16:02	07:53 16:04
30	07:33 16:48		06:40 19:24	05:38 20:11	04:57 20:52	04:53 21:07	05:24 20:42	06:08 19:46	06:54 18:40	06:40 17:40	07:29 16:01	07:53 16:05
31	07:32 16:49		06:38 19:25		04:56 20:53		05:25 20:40	06:10 19:44		06:42 17:38		07:53 16:06
Potential sun hours Total, worst case	269	283	368	411	475	486	490	447	379	335	275	256

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

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

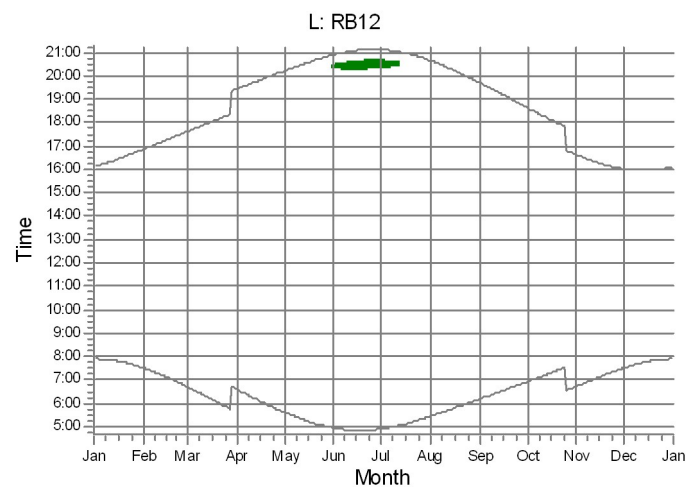
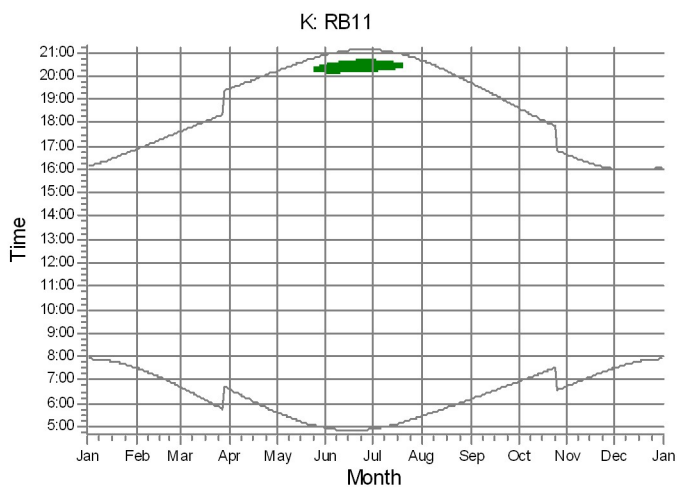
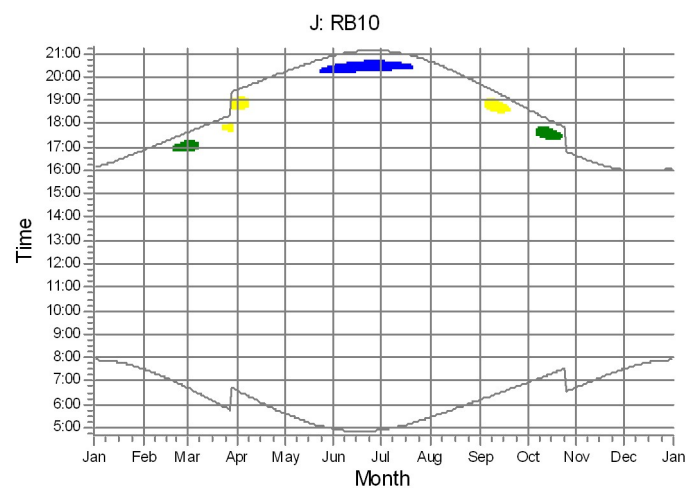
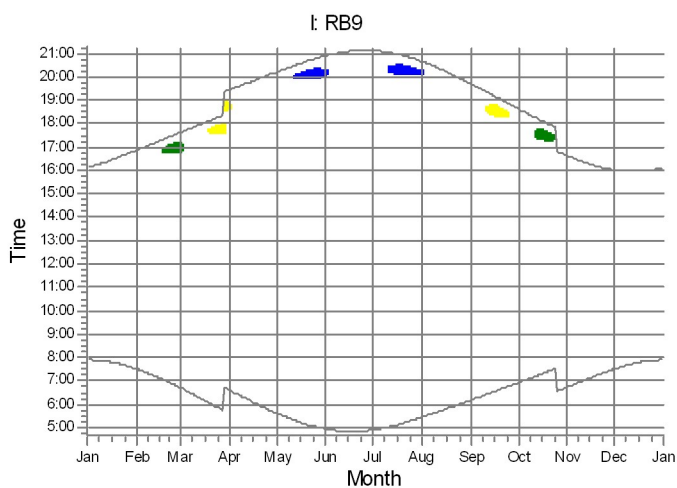
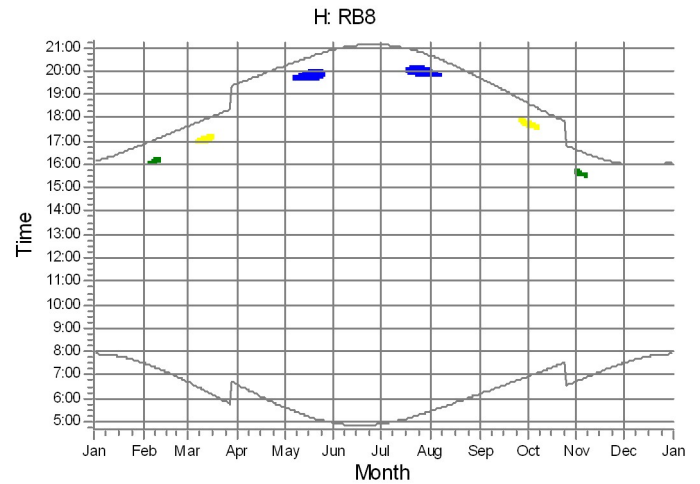
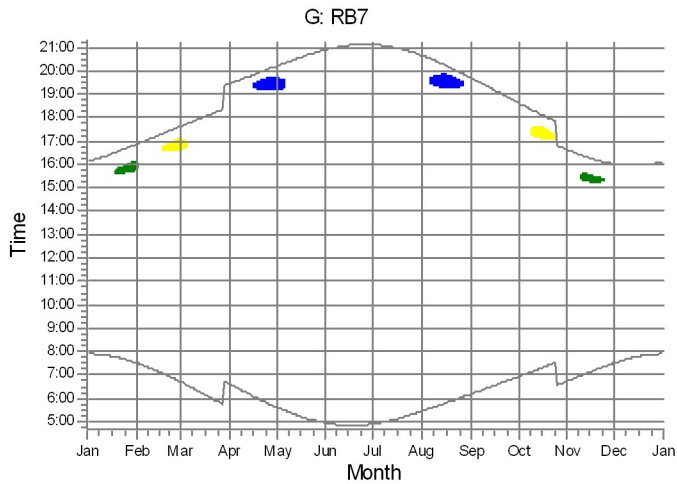
SHADOW - Calendar, graphical



WTGs

1: V1 2: V2 3: V3

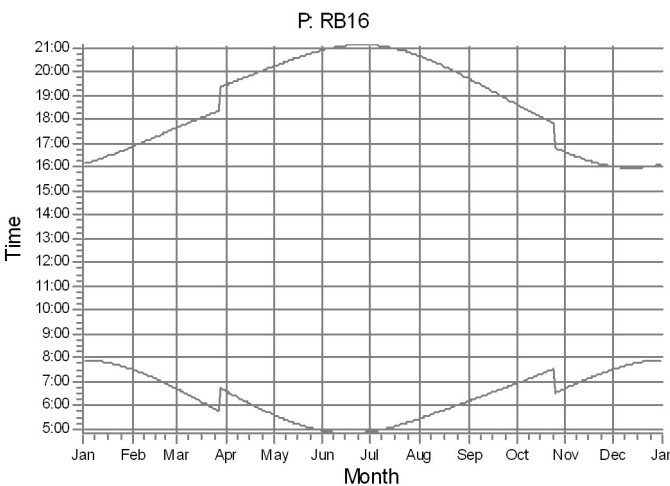
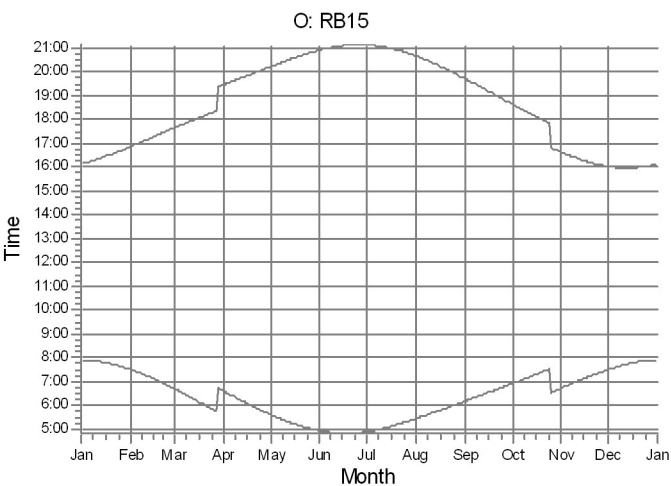
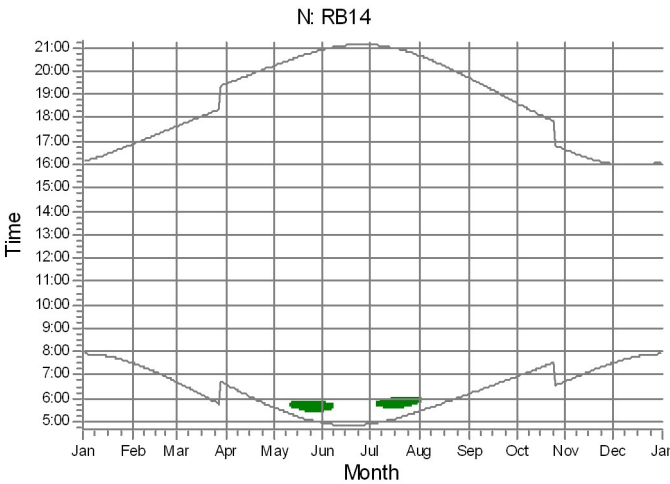
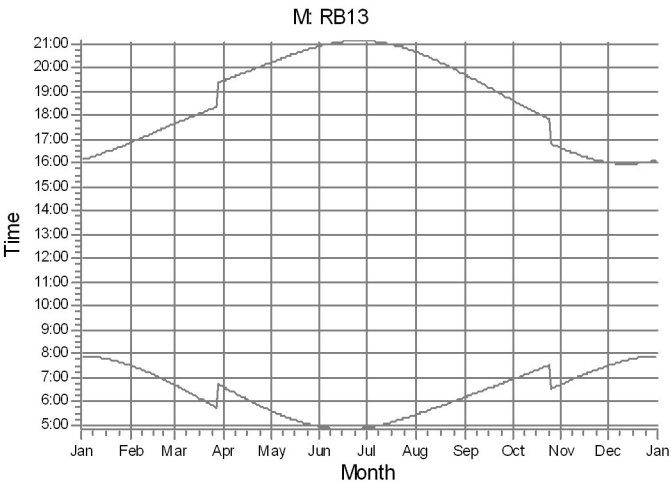
SHADOW - Calendar, graphical



WTGs

1: V1 2: V2 3: V3

SHADOW - Calendar, graphical



WTGs

1: V1

SHADOW - Calendar per WTG

WTG: 1 - V1

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:53 15:06-15:23/17 16:07	07:30 15:54-15:58/4 16:51	06:41 16:51-17:13/22 17:38	06:36 19:27 05:36 20:13		04:55 05:31-05:46/15 20:54 20:12-20:24/12
2	07:53 15:06-15:23/17 16:08	07:29 16:53 17:01	06:39 16:52-17:14/22 17:40	06:34 19:28 05:34 20:14		04:55 05:31-05:45/14 20:55 20:11-20:24/13
3	07:53 15:07-15:24/17 16:09	07:27 16:54 17:02	06:37 16:53-17:13/20 17:41	06:32 19:30 05:33 20:16		04:54 05:33-05:45/12 20:56 20:12-20:26/14
4	07:53 15:08-15:26/18 16:10	07:26 16:56 17:03	06:35 16:54-17:11/17 17:43	06:30 19:31 05:31 20:17		04:53 05:33-05:44/11 20:57 20:11-20:26/15
5	07:53 15:09-15:27/18 16:11	07:24 16:02-16:03/1 16:58	06:33 16:56-17:09/13 17:44	06:27 19:33 05:29 20:19		04:53 05:35-05:43/8 20:58 20:12-20:27/15
6	07:52 15:09-15:28/19 16:12	07:23 16:03-16:06/3 16:59	06:31 16:59-17:06/7 17:46	06:25 19:34 05:28 20:20		04:52 05:36-05:41/5 20:58 20:11-20:28/17
7	07:52 15:10-15:30/20 16:14	07:21 16:04-16:08/4 17:01	06:29 17:48 17:49	06:23 19:36 05:26 20:21		04:52 20:12-20:29/17 20:59
8	07:52 15:10-15:29/19 16:15	07:20 16:05-16:09/4 17:03	06:27 17:49 17:52	06:21 19:37 05:24 20:23		04:51 20:11-20:29/18 21:00
9	07:51 15:12-15:30/18 16:16	07:18 16:07-16:12/5 17:04	06:25 17:51 17:54	06:19 19:39 05:23 20:24		04:51 20:12-20:30/18 21:01
10	07:51 15:12-15:29/17 16:17	07:16 16:08-16:14/6 17:06	06:23 17:52 17:56	06:17 19:41 05:21 20:26		04:51 20:12-20:31/19 21:02
11	07:51 15:14-15:30/16 16:19	07:15 16:11-16:16/5 17:08	06:21 17:54 17:57	06:15 19:42 05:20 20:27		04:50 20:13-20:32/19 21:02
12	07:50 15:15-15:29/14 16:20	07:13 17:10 17:11	06:19 17:56 17:59	06:13 19:44 05:18 20:29	05:42-05:45/3	04:50 20:12-20:32/20 21:03
13	07:49 15:16-15:28/12 16:21	07:11 17:11 17:13	06:17 17:57 18:00	06:11 19:45 05:17 20:30	05:41-05:46/5	04:50 20:12-20:32/20 21:04
14	07:49 15:18-15:26/8 16:23	07:10 17:13 17:15	06:14 17:59 18:02	06:09 19:47 05:15 20:32	05:40-05:47/7	04:50 20:13-20:33/20 21:04
15	07:48 16:24 16:24	07:08 17:15 17:16	06:12 18:00 18:03	06:07 19:48 05:14 20:33	05:38-05:47/9	04:49 20:13-20:33/20 21:05
16	07:47 16:26 16:26	07:06 17:16 17:18	06:10 18:02 18:06	06:05 19:50 05:13 20:34	05:37-05:48/11	04:49 20:13-20:34/21 21:05
17	07:47 16:27 16:27	07:04 17:18 17:20	06:08 18:03 18:07	06:03 19:51 05:11 20:36	05:36-05:48/12	04:49 20:13-20:34/21 21:06
18	07:46 16:29 16:29	07:02 16:50-16:53/3 17:20	06:06 18:05 18:08	06:01 19:53 05:10 20:37	05:35-05:49/14	04:49 20:14-20:35/21 21:06
19	07:45 15:41-15:42/1 16:30	07:01 16:49-16:55/6 17:21	06:04 18:07 18:10	05:59 19:54 05:09 20:38	05:34-05:49/15	04:49 20:14-20:35/21 21:06
20	07:44 15:42-15:44/2 16:32	06:59 16:48-16:57/9 17:23	06:02 18:08 18:11	05:57 19:56 05:07 20:40	05:32-05:48/16	04:49 20:14-20:35/21 21:07
21	07:43 15:42-15:46/4 16:33	06:57 16:48-16:59/11 17:25	06:00 18:10 18:13	05:55 19:57 05:06 20:41	05:31-05:48/17	04:50 20:15-20:36/21 21:07
22	07:42 15:42-15:48/6 16:35	06:55 16:48-17:01/13 17:26	05:57 18:11 18:14	05:53 19:59 05:05 20:42	05:30-05:48/18	04:50 20:15-20:36/21 21:07
23	07:41 15:42-15:49/7 16:36	06:53 16:48-17:03/15 17:28	05:55 18:13 18:16	05:51 20:00 05:04 20:44	05:29-05:48/19	04:50 20:15-20:36/21 21:07
24	07:40 15:43-15:51/8 16:38	06:51 16:48-17:05/17 17:30	05:53 18:14 18:17	05:49 20:02 05:03 20:45	05:28-05:48/20	04:50 20:15-20:36/21 21:07
25	07:39 15:43-15:53/10 16:39	06:49 16:48-17:07/19 17:31	05:51 18:16 18:19	05:47 20:03 05:02 20:46	05:27-05:48/21	04:51 20:16-20:36/20 21:07
26	07:38 15:44-15:55/11 16:41	06:47 16:49-17:08/19 17:33	05:49 18:17 18:20	05:45 20:05 05:01 20:47	05:28-05:49/21	04:51 20:15-20:36/21 21:07
27	07:37 15:45-15:56/11 16:43	06:45 16:50-17:10/20 17:35	05:47 18:19 18:22	05:43 20:06 05:00 20:48	05:28-05:48/20	04:51 20:16-20:37/21 21:07
28	07:35 15:46-15:58/12 16:44	06:43 16:50-17:11/21 17:36	05:44 18:21 18:24	05:42 20:08 04:58 20:49	05:28-05:48/20	04:52 20:16-20:36/20 21:07
29	07:34 15:47-16:01/14 16:46		06:42 19:22 20:10	05:40 20:10 04:57 20:51	05:29-05:47/18	04:52 20:17-20:37/20 21:07
30	07:33 15:48-16:02/14 16:48		06:40 19:24 20:11	05:38 20:11 04:56 20:52	05:29-05:46/17	04:53 20:16-20:36/20 21:07
31	07:31 15:51-16:02/11 16:49		06:38 19:25 20:53		05:30-05:47/17	
Potential sun hours	269	283	368	411	475	486
Sum of minutes with flicker	341	185	101	0	343	633

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

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

SHADOW - Calendar per WTG

WTG: 1 - V1

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	04:53 20:17-20:36/19 21:07	05:26 05:53-05:55/2 20:39	06:11 06:55 19:42 18:37		06:44 15:38-15:43/5 16:36	07:30 14:56-15:12/16 16:00
2	04:54 20:16-20:35/19 21:07	05:28 20:37	06:12 06:56 19:40 18:35		06:45 15:35-15:41/6 16:35	07:31 14:55-15:12/17 16:00
3	04:55 20:17-20:35/18 21:06	05:29 20:36	06:14 06:58 19:38 18:33		06:47 15:34-15:39/5 16:33	07:33 14:55-15:13/18 15:59
4	04:55 20:18-20:35/17 21:06	05:30 20:34	06:15 06:59 19:36 18:31		06:48 15:34-15:37/3 16:31	07:34 14:55-15:14/19 15:59
5	04:56 20:17-20:34/17 21:06	05:32 20:33	06:17 07:01 19:33 18:29		06:50 15:33-15:35/2 16:30	07:35 14:55-15:15/20 15:58
6	04:57 05:44-05:47/3 21:05	05:33 20:31	06:18 07:02 19:31 18:27		06:52 15:32-15:33/1 16:28	07:36 14:55-15:14/19 15:58
7	04:58 05:42-05:49/7 21:05	05:35 20:29	06:20 07:04 19:29 18:25		06:53 16:27	07:38 14:55-15:14/19 15:58
8	04:59 05:41-05:51/10 21:04	05:36 20:28	06:21 07:06 17:32-17:43/11 19:27 18:23		06:55 16:25	07:39 14:56-15:14/18 15:57
9	04:59 05:41-05:52/11 21:04	05:38 20:26	06:23 07:07 17:30-17:46/16 19:25 18:20		06:57 16:24	07:40 14:56-15:14/18 15:57
10	05:00 05:40-05:53/13 21:03	05:39 20:24	06:24 07:09 17:28-17:47/19 19:23 18:18		06:58 15:24-15:30/6 16:22	07:41 14:56-15:13/17 15:57
11	05:01 05:39-05:53/14 21:02	05:40 20:23	06:26 07:10 17:26-17:48/22 19:21 18:16		07:00 15:22-15:33/11 16:21	07:42 14:56-15:13/17 15:57
12	05:02 05:38-05:54/16 21:02	05:42 20:21	06:27 07:12 17:26-17:48/22 19:18 18:14		07:01 15:20-15:34/14 16:19	07:43 14:56-15:13/17 15:57
13	05:03 05:38-05:55/17 21:01	05:43 20:19	06:28 07:13 17:24-17:45/21 19:16 18:12		07:03 15:19-15:32/13 16:18	07:44 14:53-15:13/20 15:57
14	05:04 05:37-05:55/18 21:00	05:45 20:17	06:30 07:15 17:22-17:43/21 19:14 18:10		07:05 15:18-15:30/12 16:17	07:45 14:52-15:13/21 15:57
15	05:05 05:37-05:56/19 20:59	05:46 20:15	06:31 07:16 17:21-17:42/21 19:12 18:08		07:06 15:18-15:29/11 16:15	07:46 14:52-15:13/21 15:57
16	05:06 05:37-05:56/19 20:58	05:48 20:14	06:33 07:18 17:20-17:39/19 19:10 18:06		07:08 15:17-15:28/11 16:14	07:46 14:51-15:12/21 15:57
17	05:07 05:36-05:57/21 20:57	05:49 20:12	06:34 07:19 17:20-17:37/17 19:08 18:04		07:09 15:17-15:27/10 16:13	07:47 14:51-15:13/22 15:58
18	05:09 05:36-05:57/21 20:56	05:51 20:10	06:36 07:21 17:19-17:36/17 19:05 18:02		07:11 15:17-15:25/8 16:12	07:48 14:52-15:13/21 15:58
19	05:10 05:38-05:59/21 20:55	05:52 20:08	06:37 07:23 17:19-17:33/14 19:03 18:00		07:13 15:17-15:24/7 16:11	07:49 14:51-15:13/22 15:58
20	05:11 05:39-05:59/20 20:54	05:53 20:06	06:39 07:24 17:19-17:31/12 19:01 17:58		07:14 15:17-15:23/6 16:10	07:49 14:52-15:13/21 15:58
21	05:12 05:40-05:59/19 20:53	05:55 20:04	06:40 07:26 17:19-17:29/10 18:59 17:56		07:16 15:17-15:21/4 16:09	07:50 14:53-15:14/21 15:59
22	05:13 05:41-05:59/18 20:52	05:56 20:02	06:42 07:27 17:19-17:27/8 18:57 17:54		07:17 15:18-15:20/2 16:08	07:50 14:53-15:14/21 15:59
23	05:15 05:42-05:59/17 20:51	05:58 20:00	06:43 07:29 17:20-17:25/5 18:55 17:52		07:19 15:18-15:19/1 16:07	07:51 14:53-15:14/21 16:00
24	05:16 05:43-05:59/16 20:50	05:59 19:58	06:45 07:31 17:21-17:23/2 18:52 17:51		07:20 16:06	07:51 14:54-15:16/22 16:00
25	05:17 05:45-05:59/14 20:48	06:01 19:56	06:46 07:32 18:50 16:49		07:22 16:05	07:52 14:54-15:16/22 16:01
26	05:18 05:46-05:59/13 20:47	06:02 19:54	06:47 07:34 18:48 16:47		07:23 16:04	07:52 14:55-15:16/21 16:02
27	05:20 05:47-05:58/11 20:46	06:04 19:52	06:49 07:35 18:46 16:45		07:25 16:03	07:52 14:57-15:18/21 16:02
28	05:21 05:48-05:58/10 20:44	06:05 19:50	06:50 07:37 18:44 16:43		07:26 14:58-15:06/8 16:02	07:53 14:57-15:19/22 16:03
29	05:22 05:49-05:57/8 20:43	06:07 19:48	06:52 06:39 18:42 16:42		07:27 14:57-15:09/12 16:02	07:53 14:58-15:19/21 16:04
30	05:24 05:51-05:57/6 20:42	06:08 19:46	06:53 06:40 18:39 16:40		07:29 14:56-15:10/14 16:01	07:53 15:00-15:20/20 16:05
31	05:25 05:52-05:56/4 20:40	06:09 19:44		06:42 15:40-15:45/5 16:38		07:53 15:05-15:21/16 16:06
Potential sun hours	490	447	379	335	275	256
Sum of minutes with flicker	591	2	0	262	172	614

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

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

SHADOW - Calendar per WTG

WTG: 2 - V2

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:53 15:26-15:31/5 16:07 14:49-15:11/22	07:30 15:40-16:11/31 16:51	06:41 16:40-17:00/20 17:38	06:36 18:42-19:02/20 19:27	05:36 20:13	04:55 20:54
2	07:53 15:26-15:32/6 16:08 14:50-15:11/21	07:29 15:45-16:13/28 16:53	06:39 16:41-16:58/17 17:40	06:34 18:42-19:04/22 19:28	05:34 20:14	04:55 20:55
3	07:53 15:25-15:33/8 16:09 14:50-15:10/20	07:27 15:51-16:15/24 16:54	06:37 16:43-16:56/13 17:41	06:32 18:43-19:05/22 19:30	05:33 20:16	04:54 20:56
4	07:53 15:26-15:34/8 16:10 14:51-15:10/19	07:26 15:52-16:18/26 16:56	06:35 16:48-16:51/3 17:43	06:30 18:43-19:05/22 19:31	05:31 20:17	04:53 20:57
5	07:53 15:26-15:35/9 16:11 14:53-15:10/17	07:24 15:52-16:17/25 16:58	06:33 17:44	06:27 18:44-19:04/20 19:33	05:29 20:19	04:53 20:58
6	07:52 15:26-15:36/10 16:12 14:53-15:09/16	07:23 15:54-16:18/24 16:59	06:31 17:46	06:25 18:46-19:02/16 19:34	05:28 20:20	04:52 20:59
7	07:52 15:26-15:37/11 16:14 14:55-15:09/14	07:21 15:55-16:20/25 17:01	06:29 16:58-17:00/2 17:48	06:23 18:48-19:00/12 19:36	05:26 20:21	04:52 20:59
8	07:52 15:26-15:38/12 16:15 14:57-15:07/10	07:20 15:56-16:21/25 17:03	06:27 16:58-17:02/4 17:49	06:21 19:37	05:24 20:23	04:51 21:00
9	07:51 15:26-15:40/14 16:16 15:00-15:06/6	07:18 15:59-16:24/25 17:04	06:25 16:58-17:03/5 17:51	06:19 19:39	05:23 20:24	04:51 21:01
10	07:51 15:26-15:41/15 16:17	07:16 16:02-16:25/23 17:06	06:23 16:58-17:05/7 17:52	06:17 19:41	05:21 20:26	04:51 21:02
11	07:51 15:27-15:42/15 16:19	07:15 16:07-16:27/20 17:08	06:21 16:58-17:06/8 17:54	06:15 19:42	05:20 20:27	04:50 21:02
12	07:50 15:27-15:43/16 16:20	07:13 16:07-16:28/21 17:10	06:19 16:59-17:07/8 17:56	06:13 19:44	05:18 20:29	04:50 21:03
13	07:49 15:26-15:45/19 16:21	07:11 16:09-16:31/22 17:11	06:17 17:00-17:09/9 17:57	06:11 19:45	05:17 20:30	04:50 21:04
14	07:49 15:27-15:47/20 16:23	07:10 16:09-16:32/23 17:13	06:14 17:01-17:11/10 17:59	06:09 19:47	05:15 20:32	04:50 21:04
15	07:48 15:27-15:48/21 16:24	07:08 16:11-16:30/19 17:15	06:12 17:03-17:12/9 18:00	06:07 19:48	05:14 20:33	04:49 21:05
16	07:47 15:27-15:49/22 16:26	07:06 16:12-16:28/16 17:16	06:10 17:06-17:14/8 18:02	06:05 19:50	05:13 20:34	04:49 21:05
17	07:47 15:28-15:50/22 16:27	07:04 16:15-16:26/11 17:18	06:08 18:03	06:03 19:51	05:11 20:36	04:49 21:06
18	07:46 15:28-15:52/24 16:28	07:03 16:40-16:41/1 17:20	06:06 18:05	06:01 19:53	05:10 20:37	04:49 21:06
19	07:45 15:28-15:53/25 16:30	07:01 16:39-16:43/4 17:21	06:04 17:40-17:42/2 18:07	05:59 19:54	05:09 20:38	04:49 21:06
20	07:44 15:29-15:55/26 16:32	06:59 16:38-16:45/7 17:23	06:02 17:39-17:44/5 18:08	05:57 19:56	05:07 20:40	04:49 21:07
21	07:43 15:29-15:57/28 16:33	06:57 16:38-16:47/9 17:25	06:00 17:38-17:46/8 18:10	05:55 19:57	05:06 20:41	04:50 21:07
22	07:42 15:30-15:58/28 16:35	06:55 16:38-16:50/12 17:26	05:57 17:37-17:47/10 18:11	05:53 19:59	05:05 20:42	04:50 21:07
23	07:41 15:30-16:00/30 16:36	06:53 16:38-16:52/14 17:28	05:55 17:36-17:49/13 18:13	05:51 20:00	05:04 20:44	04:50 21:07
24	07:40 15:30-16:00/30 16:38	06:51 16:38-16:54/16 17:30	05:53 17:35-17:50/15 18:14	05:49 20:02	05:03 20:45	04:50 21:07
25	07:39 15:31-16:00/29 16:39	06:49 16:38-16:56/18 17:31	05:51 17:35-17:51/16 18:16	05:47 20:03	05:02 20:46	04:51 21:07
26	07:38 15:32-16:00/28 16:41	06:47 16:38-16:58/20 17:33	05:49 17:35-17:53/18 18:17	05:45 20:05	05:01 20:47	04:51 21:07
27	07:37 15:32-16:01/29 16:43	06:45 16:39-17:00/21 17:35	05:47 17:35-17:55/20 18:19	05:43 20:07	05:00 20:48	04:51 21:07
28	07:35 15:34-16:03/29 16:44	06:43 16:40-17:02/22 17:36	05:44 17:36-17:56/20 18:21	05:42 20:08	04:59 20:49	04:52 21:07
29	07:34 15:35-16:06/31 16:46		06:42 18:36-18:58/22 19:22	05:40 20:10	04:58 20:51	04:52 21:07
30	07:33 15:36-16:07/31 16:48		06:40 18:38-19:00/22 19:24	05:38 20:11	04:57 20:52	04:53 21:07
31	07:31 15:39-16:10/31 16:49		06:38 18:39-19:00/21 19:25		04:56 20:53	
Potential sun hours	269	283	368	411	475	486
Sum of minutes with flicker	777	532	315	134	0	0

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

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

SHADOW - Calendar per WTG

WTG: 2 - V2

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	04:53 21:07	05:26 20:39	06:11 19:42	06:55 17:39-17:48/9 18:37	06:44 15:31-15:55/24 16:36	07:30 15:09-15:25/16 16:00
2	04:54 21:07	05:28 20:37	06:12 19:40	06:56 17:37-17:45/8 18:35	06:45 15:27-15:52/25 16:35	07:31 15:09-15:24/15 16:00
3	04:55 21:06	05:29 20:36	06:14 19:38	06:58 17:37-17:44/7 18:33	06:47 15:25-15:51/26 16:33	07:33 15:09-15:23/14 15:59 14:43-14:49/6
4	04:55 21:06	05:30 20:34	06:15 19:36	06:59 17:35-17:41/6 18:31	06:48 15:24-15:49/25 16:31	07:34 15:11-15:23/12 15:59 14:42-14:52/10
5	04:56 21:06	05:32 20:33	06:17 18:44-18:56/12 19:33	07:01 17:35-17:39/4 18:29	06:50 15:23-15:48/25 16:30	07:35 15:11-15:23/12 15:58 14:41-14:54/13
6	04:57 21:05	05:33 20:31	06:18 18:42-18:58/16 19:31	07:02 17:34-17:37/3 18:27	06:52 15:22-15:47/25 16:28	07:36 15:12-15:22/10 15:58 14:40-14:55/15
7	04:58 21:05	05:35 20:29	06:20 18:39-18:59/20 19:29	07:04 17:34-17:35/1 18:25	06:53 15:22-15:47/25 16:27	07:38 15:12-15:21/9 15:58 14:39-14:56/17
8	04:59 21:04	05:36 20:28	06:21 18:37-18:59/22 19:27	07:06 18:23	06:55 15:21-15:46/25 16:25	07:39 15:14-15:22/8 15:57 14:39-14:58/19
9	04:59 21:04	05:38 20:26	06:23 18:37-18:59/22 19:25	07:07 18:20	06:57 15:15-15:44/29 16:24	07:40 15:14-15:22/8 15:57 14:39-14:59/20
10	05:00 21:03	05:39 20:24	06:24 18:35-18:57/22 19:23	07:09 17:20-17:29/9 18:18	06:58 15:11-15:42/31 16:22	07:41 15:15-15:22/7 15:57 14:39-15:00/21
11	05:01 21:02	05:40 20:23	06:26 18:35-18:55/20 19:21	07:10 17:16-17:31/15 18:16	07:00 15:09-15:40/31 16:21	07:42 15:16-15:21/5 15:57 14:39-15:01/22
12	05:02 21:02	05:42 20:21	06:27 18:31-18:53/22 19:19	07:12 17:15-17:33/18 18:14	07:01 15:08-15:39/31 16:19	07:43 15:17-15:21/4 15:57 14:39-15:01/22
13	05:03 21:01	05:43 20:19	06:28 18:28-18:50/22 19:16	07:13 17:12-17:34/22 18:12	07:03 15:07-15:38/31 16:18	07:44 15:18-15:21/3 15:57 14:39-15:02/23
14	05:04 21:00	05:45 20:17	06:30 18:27-18:49/22 19:14	07:15 17:11-17:34/23 18:10	07:05 15:06-15:35/29 16:17	07:45 15:18-15:22/4 15:57 14:39-15:03/24
15	05:05 20:59	05:46 20:15	06:31 18:25-18:46/21 19:12	07:16 17:11-17:32/21 18:08	07:06 15:05-15:34/29 16:15	07:46 15:19-15:22/3 15:57 14:39-15:04/25
16	05:06 20:58	05:48 20:14	06:33 18:25-18:44/19 19:10	07:18 17:09-17:29/20 18:06	07:08 15:05-15:33/28 16:14	07:46 15:19-15:21/2 15:57 14:38-15:04/26
17	05:07 20:57	05:49 20:12	06:34 18:23-18:42/19 19:08	07:19 17:09-17:27/18 18:04	07:09 15:05-15:34/29 16:13	07:47 15:20-15:22/2 15:57 14:38-15:05/27
18	05:09 20:56	05:51 20:10	06:36 18:22-18:40/18 19:05	07:21 17:09-17:25/16 18:02	07:11 15:04-15:34/30 16:12	07:48 15:21-15:22/1 15:58 14:39-15:05/26
19	05:10 20:55	05:52 20:08	06:37 18:22-18:38/16 19:03	07:23 17:08-17:22/14 18:00	07:13 15:04-15:34/30 16:11	07:49 15:21-15:22/1 15:58 14:38-15:05/27
20	05:11 20:54	05:53 20:06	06:39 18:22-18:35/13 19:01	07:24 17:09-17:20/11 17:58	07:14 15:05-15:33/28 16:10	07:49 14:39-15:06/27 15:58
21	05:12 20:53	05:55 20:04	06:40 18:22-18:33/11 18:59	07:26 17:09-17:18/9 17:56	07:16 15:04-15:32/28 16:09	07:50 14:40-15:07/27 15:59
22	05:13 20:52	05:56 20:02	06:42 18:22-18:31/9 18:57	07:27 17:09-17:15/6 17:54	07:17 15:05-15:31/26 16:07	07:50 14:40-15:07/27 15:59
23	05:15 20:51	05:58 20:00	06:43 18:23-18:29/6 18:55	07:29 17:10-17:13/3 17:52	07:19 15:05-15:30/25 16:07	07:51 14:40-15:07/27 16:00
24	05:16 20:50	05:59 19:58	06:45 18:23-18:26/3 18:52	07:31 16:49-16:52/3 17:51	07:20 15:05-15:29/24 16:06	07:51 15:24-15:25/1 16:00 14:41-15:08/27
25	05:17 20:48	06:01 19:56	06:46 18:50	06:32 15:43-15:56/13 16:49	07:22 15:06-15:29/23 16:05	07:52 15:24-15:25/1 16:01 14:41-15:08/27
26	05:18 20:47	06:02 19:54	06:47 18:48	06:34 15:41-15:58/17 16:47	07:23 15:06-15:27/21 16:04	07:52 15:24-15:25/1 16:02 14:42-15:08/26
27	05:20 20:46	06:04 19:52	06:49 17:50-17:55/5 18:46	06:35 15:40-16:00/20 16:45	07:25 15:06-15:27/21 16:03	07:52 15:25-15:27/2 16:02 14:43-15:10/27
28	05:21 20:44	06:05 19:50	06:50 17:45-17:54/9 18:44	06:37 15:39-16:01/22 16:43	07:26 15:06-15:26/20 16:02	07:53 15:25-15:27/2 16:03 14:44-15:10/26
29	05:22 20:43	06:07 19:48	06:52 17:42-17:52/10 18:42	06:39 15:37-15:59/22 16:42	07:27 15:07-15:26/19 16:02	07:53 15:25-15:28/3 16:04 14:45-15:10/25
30	05:24 20:42	06:08 19:46	06:53 17:40-17:49/9 18:39	06:40 15:37-15:57/20 16:40	07:29 15:08-15:25/17 16:01	07:53 15:25-15:29/4 16:05 14:46-15:10/24
31	05:25 20:40	06:09 19:44		06:42 15:36-15:56/20 16:38		07:53 15:26-15:30/4 16:06 14:48-15:10/22
Potential sun hours	490	447	379	335	275	256
Sum of minutes with flicker	0	0	368	380	780	809

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

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

SHADOW - Calendar per WTG

WTG: 3 - V3

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:53 16:07	07:30 16:51	06:41 17:38	06:36 18:08-18:55/47	05:36 19:15-19:37/22	04:55 20:14-20:24/10
2	07:53 16:08	07:29 16:53	06:39 17:40	06:34 18:36-18:56/20	05:34 19:15-19:35/20	04:55 20:13-20:24/11
3	07:53 16:09	07:27 16:54	06:37 17:41	06:32 18:35-18:58/23	05:33 19:17-19:35/18	04:54 20:14-20:26/12
4	07:53 16:10	07:26 16:56	06:35 17:43	06:30 18:35-18:59/24	05:31 19:18-19:33/15	04:53 20:14-20:26/12
5	07:53 16:11	07:24 16:58	06:33 17:44	06:27 18:34-19:01/27	05:29 19:20-19:30/10	04:53 20:14-20:28/14
6	07:52 16:12	07:23 16:59	06:31 17:46	06:25 18:34-19:03/29	05:28 19:20-19:30/10	04:52 20:14-20:28/14
7	07:52 16:13	07:21 17:01	06:29 17:48	06:23 18:34-19:05/31	05:26 19:38-19:40/2	04:52 20:15-20:29/14
8	07:52 16:15	07:20 17:03	06:27 17:49	06:21 18:34-19:06/32	05:24 19:38-19:42/4	04:51 20:14-20:29/15
9	07:51 16:16	07:18 17:04	06:25 17:51	06:19 18:33-19:07/34	05:23 19:37-19:43/6	04:51 20:15-20:30/15
10	07:51 16:17	07:16 17:06	06:23 17:52	06:17 18:33-19:08/35	05:21 19:37-19:45/8	04:51 20:16-20:31/15
11	07:51 16:19	07:15 17:08	06:21 17:54	06:15 18:34-19:10/36	05:20 19:38-19:48/10	04:50 20:16-20:32/16
12	07:50 16:20	07:13 17:10	06:19 17:56	06:13 18:34-19:12/38	05:18 19:59-20:00/1	04:50 20:16-20:32/16
13	07:49 16:21	07:11 17:11	06:17 17:57	06:11 18:35-19:13/38	05:17 19:59-20:02/3	04:50 20:16-20:32/16
14	07:49 16:23	07:10 17:13	06:14 17:59	06:09 18:36-19:14/38	05:15 19:59-20:04/5	04:50 20:17-20:33/16
15	07:48 16:24	07:08 17:15	06:12 18:00	06:07 18:37-19:16/39	05:14 19:58-20:04/6	04:49 20:17-20:34/17
16	07:47 16:26	07:06 17:16	06:10 18:02	06:05 18:39-19:17/38	05:13 19:58-20:06/8	04:49 20:17-20:34/17
17	07:47 16:27	07:04 17:18	06:08 18:03	06:03 19:21-19:25/4	05:11 19:58-20:07/9	04:49 20:17-20:34/17
18	07:46 16:28	07:03 17:20	06:06 18:05	06:01 18:45-19:26/41	05:10 19:40-20:09/29	04:49 20:18-20:35/17
19	07:45 16:30	07:01 17:21	06:04 18:07	05:59 18:49-19:29/40	05:09 19:39-20:09/30	04:49 20:18-20:35/17
20	07:44 16:32	06:59 17:23	06:02 18:08	05:57 18:52-19:30/38	05:07 19:40-20:10/30	04:49 20:18-20:35/17
21	07:43 16:33	06:57 17:25	06:00 18:10	05:55 18:53-19:32/39	05:06 19:41-20:12/31	04:50 20:19-20:36/17
22	07:42 16:35	06:55 17:26	05:57 18:11	05:53 18:54-19:33/39	05:05 19:42-20:13/31	04:50 20:19-20:36/17
23	07:41 16:36	06:53 17:28	05:55 18:13	05:51 19:14-19:34/20	05:04 19:44-20:14/30	04:50 20:19-20:36/17
24	07:40 16:38	06:51 17:30	05:53 18:14	05:49 19:13-19:36/23	05:03 19:59-20:15/16	04:50 20:19-20:36/17
25	07:39 16:39	06:49 17:31	05:51 18:16	05:47 19:13-19:37/24	05:02 19:59-20:16/17	04:51 20:20-20:37/17
26	07:38 16:41	06:47 17:33	05:49 18:17	05:45 19:13-19:39/26	05:01 20:00-20:17/17	04:51 20:19-20:36/17
27	07:37 16:43	06:45 17:35	05:47 18:19	05:43 19:13-19:40/27	05:00 20:00-20:19/19	04:51 20:20-20:37/17
28	07:35 16:44	06:43 17:36	05:44 18:21	05:42 19:13-19:39/26	04:59 20:02-20:20/18	04:52 20:20-20:36/16
29	07:34 16:46		06:42 19:22	05:40 19:13-19:38/25	04:58 20:03-20:21/18	04:52 20:20-20:37/17
30	07:33 16:48		06:40 19:24	05:38 19:14-19:38/24	04:57 20:04-20:22/18	04:53 20:20-20:36/16
31	07:31 16:49		06:38 19:25		04:56 20:05-20:22/17	
Potential sun hours	269	283	368	411	475	486
Sum of minutes with flicker	0	0	860	1050	579	472

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

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

SHADOW - Calendar per WTG

WTG: 3 - V3

Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

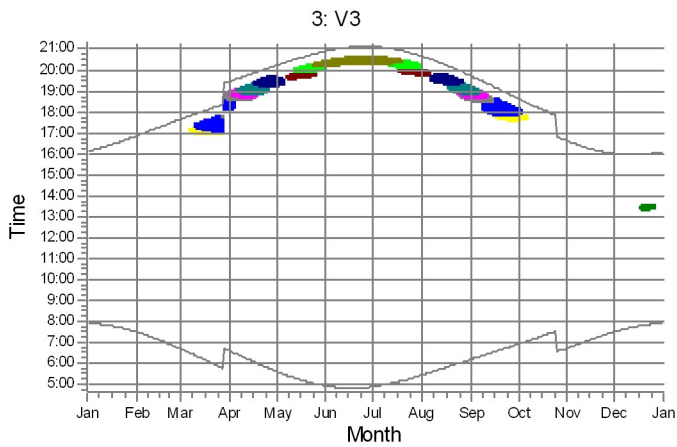
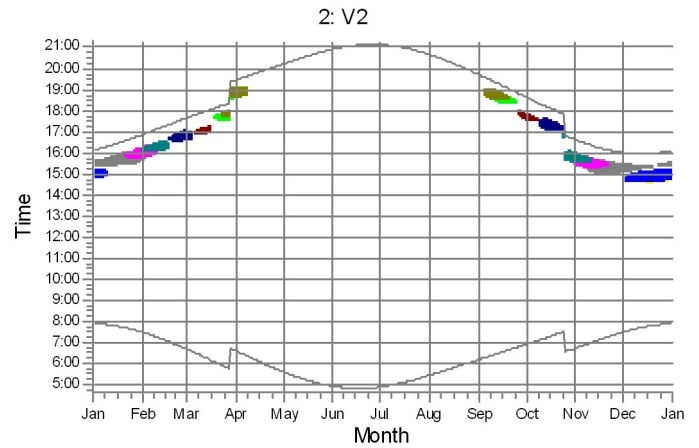
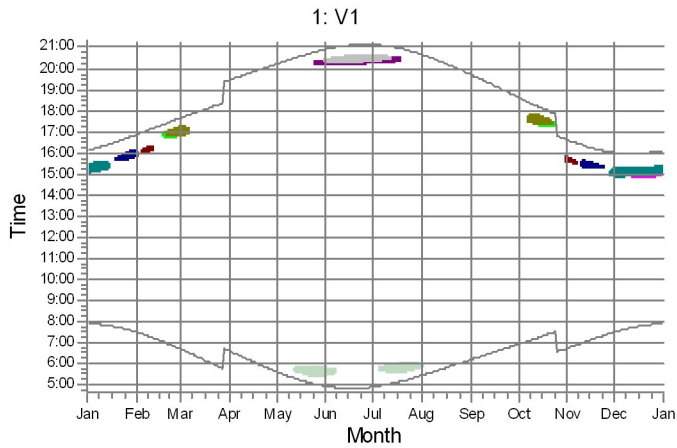
- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	04:53 20:20-20:36/16 21:07	05:26 19:48-19:58/10 20:39	06:11 18:34-19:10/36 19:42	06:55 17:38-18:06/28 18:37	06:44 16:36	07:30 16:00
2	04:54 20:20-20:35/15 21:07	05:28 19:47-19:56/9 20:37	06:12 18:32-19:07/35 19:40	06:56 17:56-18:03/7 18:35	06:45 16:35	07:31 16:00
3	04:55 20:20-20:35/15 21:06	05:29 19:48-19:55/7 20:36	06:14 18:31-19:05/34 19:38	06:58 17:59-18:01/2 18:33	06:47 16:33	07:33 15:59
4	04:55 20:21-20:35/14 21:06	05:30 19:48-19:53/5 20:34	06:15 18:31-19:03/32 19:36	06:59 17:39-17:49/10 18:31	06:48 16:31	07:34 15:59
5	04:56 20:20-20:34/14 21:06	05:32 19:48-19:51/3 20:33	06:17 18:30-19:01/31 19:33	07:01 17:41-17:48/7 18:29	06:50 16:30	07:35 15:58
6	04:57 20:20-20:34/14 21:05	05:33 19:49-19:50/1 20:31	06:18 18:30-18:59/29 19:31	07:03 17:41-17:45/4 18:27	06:52 16:28	07:36 15:58
7	04:58 20:21-20:34/13 21:05	05:35 19:32-19:38/6 20:29	06:20 18:30-18:56/26 19:29	07:04 18:25	06:53 16:27	07:38 15:58
8	04:59 20:21-20:34/13 21:04	05:36 19:28-19:40/12 20:28	06:21 18:29-18:54/25 19:27	07:06 18:23	06:55 16:25	07:39 15:57
9	04:59 20:21-20:33/12 21:04	05:38 19:27-19:43/16 20:26	06:23 18:30-18:52/22 19:25	07:07 18:20	06:57 16:24	07:40 15:57
10	05:00 20:21-20:32/11 21:03	05:39 19:25-19:44/19 20:24	06:24 18:29-18:50/21 19:23	07:09 18:18	06:58 16:22	07:41 15:57
11	05:01 20:21-20:32/11 21:02	05:40 19:23-19:44/21 20:23	06:26 18:02-18:48/46 19:21	07:10 18:16	07:00 16:21	07:42 15:57
12	05:02 20:14-20:31/17 21:02	05:42 19:23-19:46/23 20:21	06:27 18:00-18:43/43 19:19	07:12 18:14	07:02 16:19	07:43 15:57
13	05:03 20:12-20:30/18 21:01	05:43 19:22-19:46/24 20:19	06:28 17:57-18:40/43 19:16	07:13 18:12	07:03 16:18	07:44 15:57
14	05:04 20:12-20:30/18 21:00	05:45 19:22-19:47/25 20:17	06:30 17:55-18:38/43 19:14	07:15 18:10	07:05 16:17	07:45 15:57
15	05:05 20:11-20:29/18 20:59	05:46 19:21-19:47/26 20:15	06:31 18:33-18:36/3 19:12	07:16 18:08	07:06 16:15	07:46 15:57
16	05:06 20:10-20:28/18 20:58	05:48 19:20-19:46/26 20:14	06:33 17:50-18:33/43 19:10	07:18 18:06	07:08 16:14	07:46 15:57
17	05:07 20:10-20:27/17 20:57	05:49 19:20-19:45/25 20:12	06:34 17:47-18:33/46 19:08	07:19 18:04	07:10 16:13	13:24-13:25/1 15:57
18	05:09 20:09-20:26/17 20:56	05:50 19:19-19:43/24 20:10	06:36 17:46-18:33/47 19:06	07:21 18:02	07:11 16:12	07:48 15:58
19	05:10 20:09-20:25/16 20:55	05:52 19:19-19:41/22 20:08	06:37 17:44-18:31/47 19:03	07:23 18:00	07:13 16:11	13:21-13:29/8 15:58
20	05:11 20:08-20:24/16 20:54	05:53 19:20-19:40/20 20:06	06:39 17:42-18:29/47 19:01	07:24 17:58	07:14 16:10	13:22-13:30/8 15:58
21	05:12 19:54-20:24/30 20:53	05:55 18:59-19:37/38 20:04	06:40 17:42-18:27/45 18:59	07:26 17:56	07:16 16:08	13:22-13:32/10 15:59
22	05:13 19:52-20:23/31 20:52	05:56 18:58-19:36/38 20:02	06:42 17:40-18:25/45 18:57	07:27 17:54	07:17 16:07	13:22-13:32/10 15:59
23	05:15 19:51-20:22/31 20:51	05:58 18:55-19:34/39 20:00	06:43 17:40-18:23/43 18:55	07:29 17:52	07:19 16:06	13:24-13:32/8 16:00
24	05:16 19:50-20:20/30 20:50	05:59 18:51-19:32/41 19:58	06:45 17:39-18:20/41 18:52	07:31 17:51	07:20 16:06	13:24-13:32/8 16:00
25	05:17 19:50-20:19/29 20:48	06:01 18:48-19:30/42 19:56	06:46 17:39-18:19/40 18:50	06:32 16:49	07:22 16:05	13:25-13:32/7 16:01
26	05:18 19:50-20:19/29 20:47	06:02 19:24-19:28/4 19:54	06:47 17:38-18:16/38 18:48	06:34 16:47	07:23 16:04	13:27-13:30/3 16:02
27	05:20 20:08-20:17/9 20:46	06:04 18:41-19:20/39 19:52	06:49 17:38-18:14/36 18:46	06:35 16:45	07:25 16:03	07:52 16:02
28	05:21 20:08-20:16/8 20:45	06:05 18:39-19:17/38 19:50	06:50 17:37-18:12/35 18:44	06:37 16:43	07:26 16:02	07:53 16:03
29	05:22 20:08-20:14/6 20:43	06:07 18:37-19:15/38 19:48	06:52 17:38-18:10/32 18:42	06:39 16:42	07:27 16:02	07:53 16:04
30	05:24 20:09-20:14/5 20:42	06:08 18:36-19:14/38 19:46	06:53 17:37-18:07/30 18:39	06:40 16:40	07:29 16:01	07:53 16:05
31	05:25 20:10-20:12/2 20:40	06:09 18:34-19:12/38 19:44		06:42 16:38		07:53 16:06
Potential sun hours	490	447	379	335	275	256
Sum of minutes with flicker	620	792	1180	87	0	68

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

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

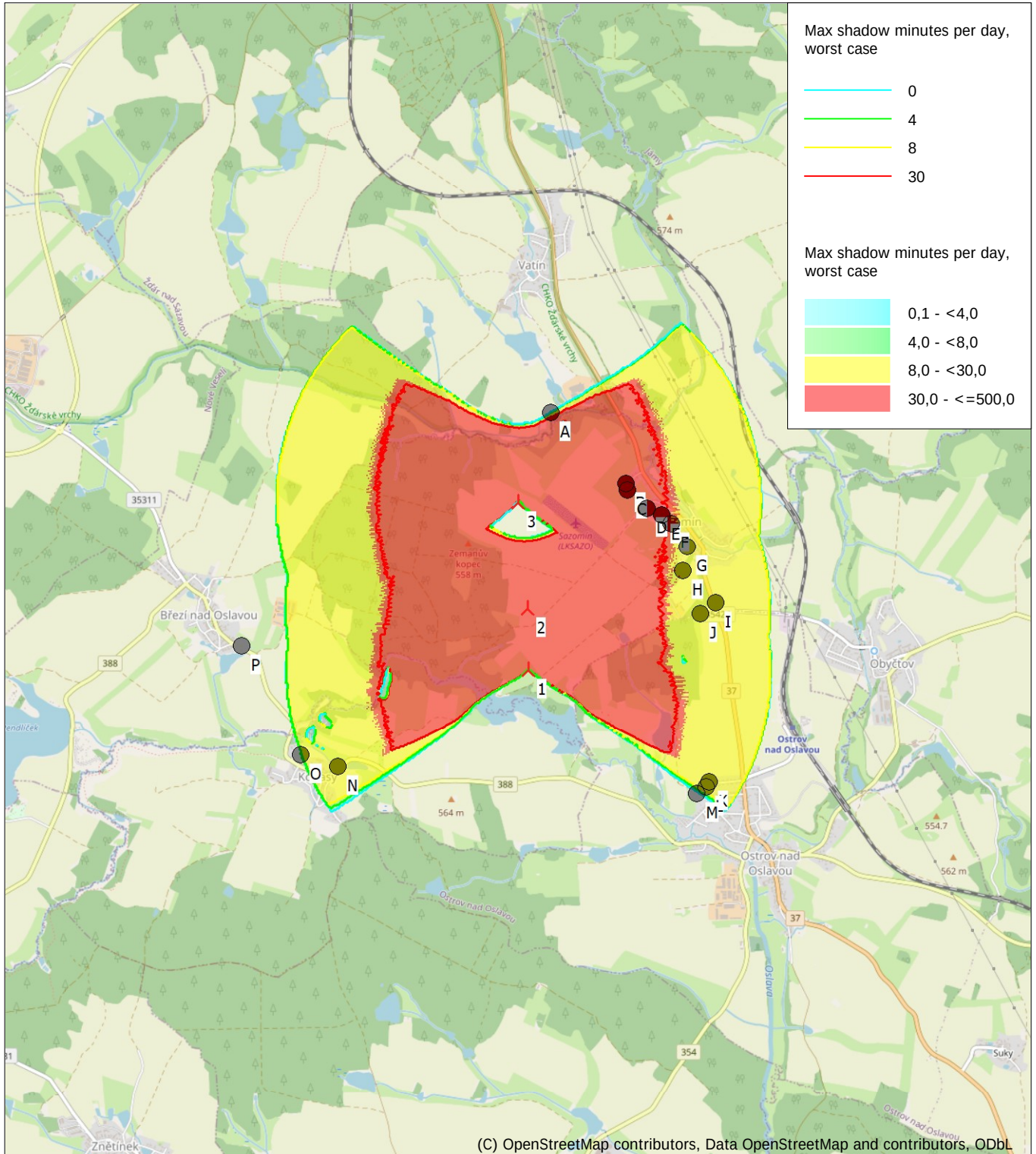
SHADOW - Calendar per WTG, graphical



Shadow receptors

	A: RB1		E: RB5		I: RB9		N: RB14
	B: RB2		F: RB6		J: RB10		
	C: RB3		G: RB7		K: RB11		
	D: RB4		H: RB8		L: RB12		

SHADOW - Map



0 500 1000 1500 2000 m

Map: EMD OpenStreetMap , Print scale 1:40 000, Map center Geo WGS84 East: 15,964547° E North: 49,504683° N
 New WTG Shadow receptor
 Flicker map level: Project Wizard Elevation Data Grid (Czech Republic DTM - 20m grid)
 Time step: 2 minutes, Day step: 3 days, Map resolution: 10 m, Visibility resolution: 5 m, Eye height: 1,5 m