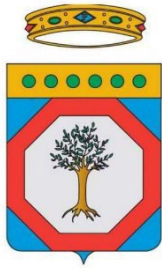


REGIONE PUGLIA



PROVINCIA DI FOGGIA



COMUNI DI ASCOLI SATRIANO E CERIGNOLA



Denominazione impianto:

“Lagnano del Capo”

Ubicazione:

Comuni di Ascoli Satriano (FG) e Cerignola (FG)
Località Lagnano del Capo

Fogli: vari

Particelle: varie

PROGETTO DEFINITIVO

**di un parco eolico composto da 15 aerogeneratori per una potenza complessiva di 84,7 MW
ubicati nei comuni di Ascoli Satriano (FG) e Cerignola (FG), località Lagnano del Capo.**

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ELABORATO

STUDIO OMBRA

Tav. n°

11DS

Scala

Aggiornamenti	Numero	Data	Motivo	Eseguito	Verificato	Approvato
		Rev 0	Settembre 2024	Istanza VIA art.23 D.Lgs 152/06 – Istanza Autorizzazione Unica art.12 D.Lgs 387/03	ING. FRISOLI	ARCH. DEMAIO

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Spazio riservato agli Enti

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1. INTRODUZIONE

Il presente elaborato ha lo scopo di valutare in maniera tecnica l'eventuale impatto generato dall'evoluzione dell'ombra derivante dalla futura installazione di un impianto di produzione di energia da fonte eolica nei Comuni di Ascoli Satriano e Cerignola ubicato a sud-est del centro alla località "Lagnano del Capo", costituito da n. 15 aerogeneratori da 7,2 MW depotenziati per una potenza complessiva di 84,7 MW e aventi un'altezza al mozzo pari a 114 metri ed un diametro del rotore pari a 172 metri. In particolare la posizione degli aerogeneratori è la seguente:

WTG	EST	NORD	FOGLIO	PARTICELLA	COMUNE
1	554695	4560953	67	11	ASCOLI S.
2	556001	4561029	68	180	ASCOLI S.
3	556671	4561583	68	180	ASCOLI S.
4	557568	4561560	68	231	ASCOLI S.
5	558654	4561265	70	28	ASCOLI S.
6	559396	4561110	70	84	ASCOLI S.
7	555156	4559956	76	25	ASCOLI S.
8	556051	4559938	77	78	ASCOLI S.
9	558540	4560419	349	7	CERIGNOLA
10	555771	4558832	84	111	ASCOLI S.
11	556610	4558594	84	22	ASCOLI S.
12	555768	4558109	84	28	ASCOLI S.
13	557299	4558095	84	48	ASCOLI S.
14	558672	4558405	88	14	ASCOLI S.
15	558900	4557445	88	94	ASCOLI S.

Tab. 1 – Coordinate aeroogeneratori

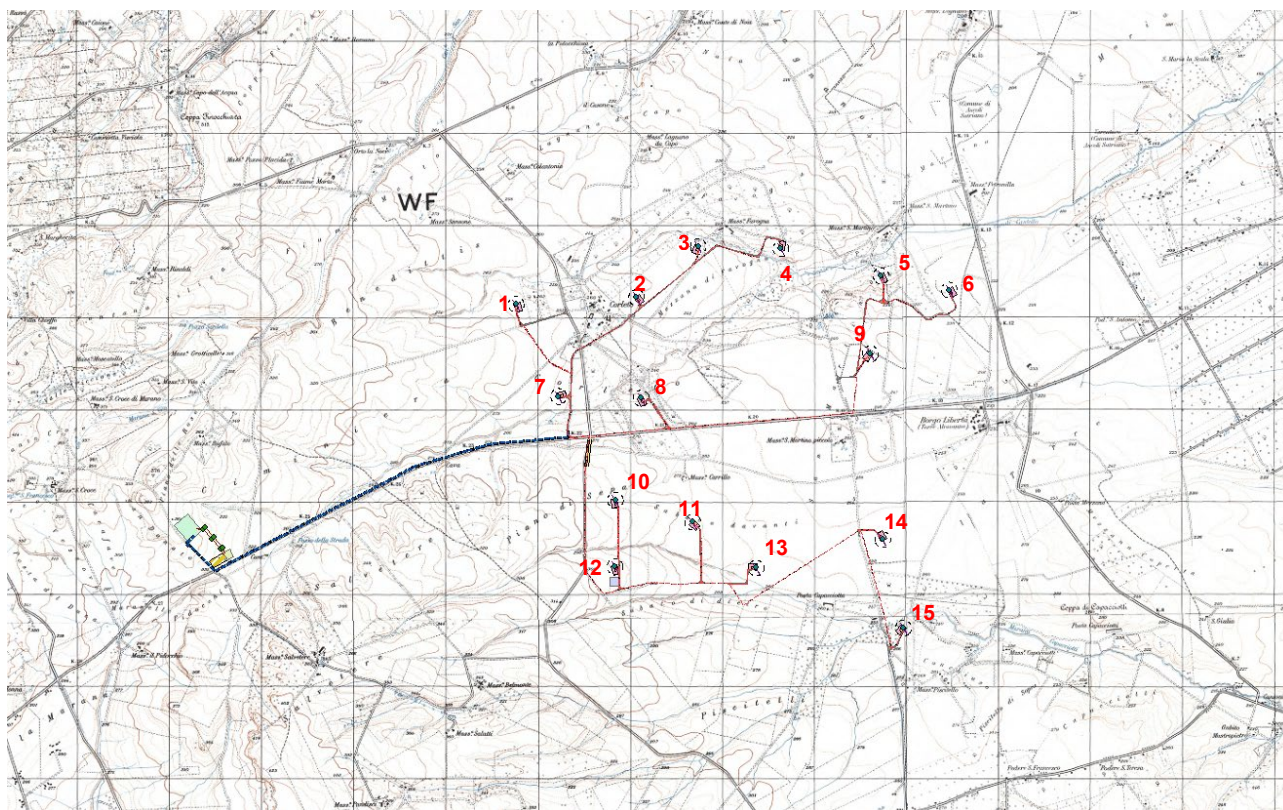


Figura 1: Planimetria dell'impianto

Lo Shadow-Flickering è l'espressione comunemente impiegata in ambito specialistico per descrivere l'effetto stroboscopico delle ombre proiettate dalle pale rotanti degli aerogeneratori eolici quando sussistono le condizioni meteorologiche opportune; infatti la possibilità e la durata di tali effetti dipendono da una serie di condizioni ambientali, tra cui : la posizione del sole, l'ora del giorno, il giorno dell'anno, le condizioni atmosferiche ambientali e la posizione della turbina eolica rispetto ad un recettore sensibile. La valutazione tecnica è eseguita con l'ausilio di un software di simulazione specifico per la progettazione degli impianti eolici WIND PRO®, costituito da un insieme di moduli di elaborazione orientati alla simulazione di una serie di aspetti che caratterizzano le diverse fasi progettuali. Il modulo SHADOW è quello specifico per la valutazione dell'evoluzione dell'ombra e del flickering. In tale report è riportata:

- *La descrizione del caso studio con le posizioni delle turbine e loro caratteristiche tecniche*
- *Una breve descrizione tecnica del fenomeno di shadow flickering*
- *La descrizione dei recettori soggetti al fenomeno per i quali è stata richiesta questa analisi*
- *Sintesi della metodologia di analisi seguita per lo studio*
- *Sintesi dei risultati ottenuti, con allegati grafici ed analitici di dettaglio che descrivono il fenomeno su*

ognuno dei recettori e da parte di ognuna delle turbine per tutto l'anno solare.

2. STUDIO DELL'EVOLUZIONE DELL'OMBRA GIORNALIERA GENERATA DAGLI AEROGENERATORI

Le turbine eoliche, come altre strutture fortemente sviluppate in altezza, proiettano un'ombra sulle aree adiacenti in presenza della luce solare diretta. Per chi vive in tali zone prossime all'insediamento eolico può essere molto fastidioso il cosiddetto fenomeno del "flicker" che consiste in un effetto di lampeggiamento che si verifica quando le pale del rotore in movimento "tagliano" la luce solare in maniera intermittente. Una progettazione attenta a questa problematica permette di evitare questo spiacevole fenomeno semplicemente prevedendo il luogo di incidenza dell'ombra e disponendo le turbine in maniera tale che l'ombra sulle zone sensibili non superi un certo numero di ore all'anno. Il grafico in figura i riporta l'evoluzione annuale dell'ombra di una turbina considerando il caso peggiore di pale sempre in rotazione intorno al mozzo, e orientate sempre ortogonalmente al sole durante la sua evoluzione giornaliera.

Come è evidente dal grafico e dalla legenda le ore annue di ombra sono sempre minori con l'aumentare della distanza dal pilone secondo una particolare geometria dettata dalla posizione geografica; da osservare che l'ombra arriva a proiettarsi anche sino ad una distanza di 1 km, anche se solo per pochi minuti all'anno.

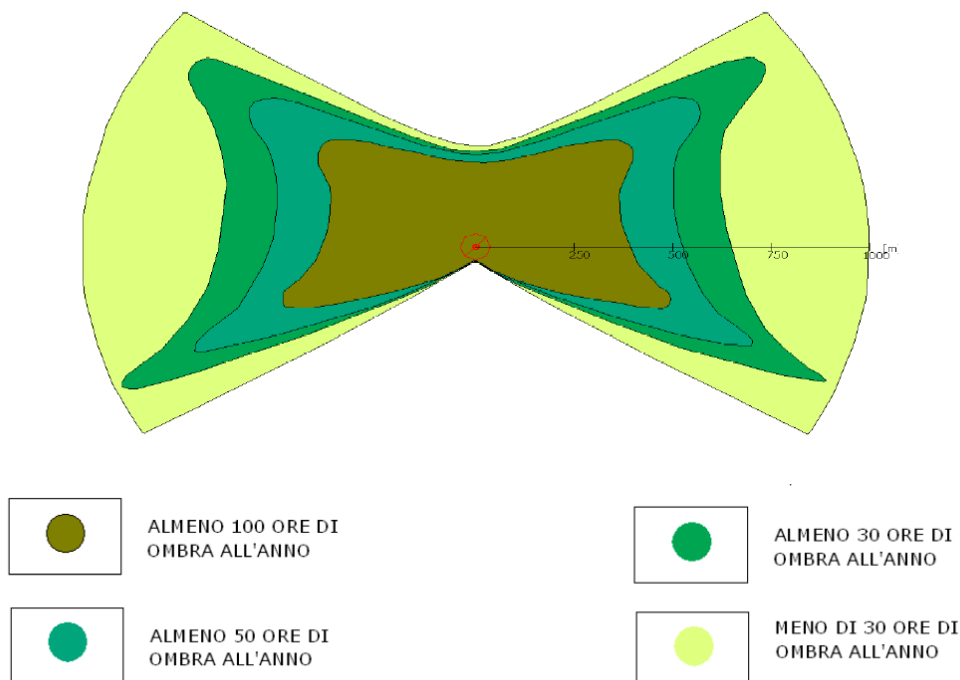


Figura 2: Evoluzione annuale tipo dell'ombra di una pala

Considerati i pochi precedenti esistenti (Germania) e le ipotesi così penalizzanti con cui è stata calcolato tale grafico si è ritenuto opportuno effettuare una sovrapposizione sull'impianto della parte più interna del grafico ovvero dell'area **che supera le 100 ore all'anno di ombra dei punti di installazione, intendendo questo come limite da non superarsi.**

In Italia, così come nella maggior parte dei paesi Europei ed extraeuropei non esiste una normativa specifica in relativa al disturbo generato dal fenomeno di Shadow – Flickering. Esistono delle regolamentazioni locali ma quasi mai comprendono limiti numerici specifici, quanto piuttosto delle raccomandazioni tese a sottolineare che il fenomeno non sia “unreasonable” o “significant”.

3. INDIVIDUAZIONE DEI RECETTORI ED IPOTESI DI CALCOLO

3.1 Individuazione dei ricettori

Il progetto in esame nel comune di Ascoli Satriano prevede l'installazione di 7 aerogeneratori in località “La Fica”.

L'analisi di shadow-flickering di cui al presente studio è stata elaborata per specifici 9 recettori che circondano l'impianto; tuttavia alcune strutture inserite nel modello di simulazione potrebbero essere ruderi non abitati e sostanzialmente privi di caratteristiche minime di abitabilità o agibilità.

A tal riguardo per eventuali approfondimenti, si faccia riferimento allo specifico elaborato di progetto “Allegato 1 – Documentazione fotografica relativa ai ricettori considerati nelle analisi acustiche”.

N	EST	NORD	Z [m]
A	546681	4557534	321
B	546143	4557845	319
C	546116	4557843	317
D	546147	4557914	320
E	546384	4558037	337
F	546437	4558094	345
G	546443	4558443	385
H	546373	4558650	388
I	546410	4558643	384
J	547600	4557679	359
K	547614	4557636	355
L	547518	4557281	346
M	547483	4557273	344
N	547973	4559526	459
O	548216	4559657	429
P	547820	4559902	421

Progetto di un parco eolico composto da 15 aerogeneratori per una potenza complessiva di 84,7 MW ubicato nei comuni di Ascoli Satriano (FG) e Cerignola (FG), località Lagnano del Capo.

Q	547805	4559914	424
R	547824	4559967	423
S	547907	4559967	414
T	547919	4560039	414
U	548095	4560026	419
V	548196	4559989	430
W	548230	4560073	414
X	548230	4560086	410
Y	548727	4559673	426
Z	548533	4559976	405
AA	548513	4560149	391
AB	548602	4560185	387
AC	548677	4560103	404
AD	548986	4559632	391
AE	549148	4559937	396
AF	549499	4559970	364
AG	549670	4560230	372
AH	549792	4560191	354
AI	549916	4560274	356
AJ	549987	4560241	350
AK	550150	4559855	367
AL	549410	4557441	346
AM	550675	4557747	305
AN	549911	4559063	369
AO	551264	4559539	351
AP	551288	4559553	350
AQ	551308	4559528	349

Tab. 2 – Coordinate ricettori

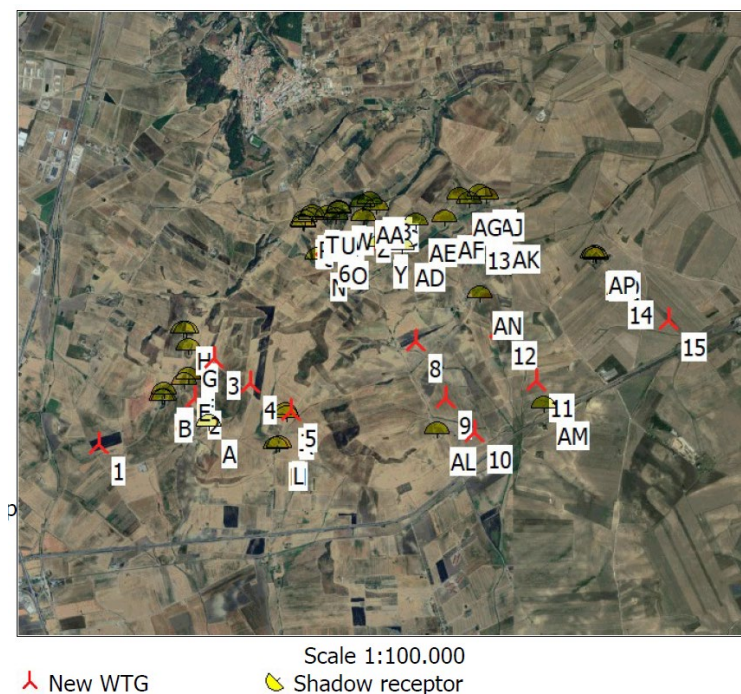


Figura 3 -Indicazione dei recettori su igm

Nella tabella a seguire sono riportate le distanze minime intercorrenti tra recettori in oggetto e l'aerogeneratore più prossimo.

Ricettore	Torre più prossima	Distanza m
A	2	394
B	2	369
C	2	391
D	2	363
E	2	208
F	2	236
G	3	308
H	3	478
I	3	438
J	5	80
K	5	108
L	5	470
M	5	495
N	6	193

O	6	157
P	6	322
Q	6	345
R	6	365
S	6	340
T	6	376
U	6	340
V	6	326
W	6	416
X	6	433
Y	7	75
Z	7	317
AA	7	466
AB	7	468
AC	7	369
AD	7	268
AE	7	448
AF	13	369
AG	13	428
AH	13	357
AI	13	445
AJ	13	431
AK	13	309
AL	10	438
AM	11	351
AN	12	425
AO	14	438
AP	14	439
AQ	14	402

Tab. 3 –Distanze delle turbine dai ricettori più prossimi

In relazione a ciò, si fa presente che già in fase di scelta delle aree sulle quali ubicare l'impianto si è cercato di allontanarsi il più possibile dall'area urbana e dalle abitazioni ed edifici ritenuti sensibili.

Tale fascia è stata definita in fase di progetto al fine di garantire il rispetto dei limiti in merito non solo all'ombreggiamento ma anche agli impatti acustici, elettromagnetici e in termini di calcolo della gittata.

Lo studio, i cui risultati in dettaglio sono riportati di seguito, è stato condotto con uno specifico software (WindPRO).

Nello studio ci si è posti nella condizione più sfavorevole possibile, in quanto si è considerato che:

- il sole risplende per tutta la giornata dall'alba al tramonto (cioè si è sempre in assenza di copertura nuvolosa);
- il piano di rotazione delle pale è sempre perpendicolare alla linea che passa per il sole e per l'aerogeneratore (l'aerogeneratore "insegue" il sole);
- l'aerogeneratore è sempre operativo.

Allo stesso tempo, si è trascurata la presenza degli alberi e di altri ostacoli che bordano le strade "intercettando" l'ombra degli aerogeneratori riducendo il fastidio del flickering.

Ciò significa che i risultati ai quali si perverrà sono ampiamente cautelativi.

3.2 Base dati e parametri di calcolo

In base alla metodologia descritta nei paragrafi precedenti, sono stati utilizzati i seguenti dati di input per impostare il modello di simulazione per la valutazione del fenomeno di Shadow-Flickering degli aerogeneratori di progetto:

- Il DTM o Modello del terreno digitale** per caratterizzare l'orografia è stato estrapolato dal grid disponibile in download dal SIT della Regione Puglia, georeferenziato, sovrapposto, confrontato e adeguato con le curve di livello presenti sulla cartografia ufficiale CTR 1:5.000 con uno step di 5 m. Il modello digitale ottenuto copre un'area sufficiente ad inglobare l'area del parco eolico di progetto e trova un buon riscontro con l'andamento orografico verificato in sito.
- Posizioni geografiche di recettori con dettaglio dimensionale delle aree più esposte.** Sono i ricettori individuati dallo studio acustico e classificati secondo la loro abitabilità e destinazione d'uso. Per tutti i ricettori si è ritenuto opportuno usare l'ipotesi di cautela della modalità "green house mode". Questa scelta è stata operata poiché in talune circostanze anche lo spazio antistante le strutture può essere considerato o adibito a luogo di riposo e relax. La scelta di una singola finestra o di una facciata in alcune condizioni potrebbe risultare riduttiva allo scopo di una vera valutazione d'impatto.
- Posizioni geografiche delle turbine eoliche e loro caratteristiche dimensionali**
Gli aerogeneratori di progetto con le loro caratteristiche dimensionali e tecnologiche
- Nessun ostacolo naturale o artificiale è stato modellato.**

4. I RISULTATI DEL CALCOLO DELL'EVOLUZIONE DELL'OMBRA

Nella procedura "Worst case" il fenomeno di shadow/flickering viene calcolato non tenendo conto delle

condizioni di soleggiamento del sito e del vento, dati che allo stato dell'arte per il sito in questione non sono disponibili. Invece se avessimo di dati di cui sopra potremmo calcolare il fenomeno di shadow/flickering con la metodologia ("real case"), che secondo altri casi simili comporterebbe la riduzione del fenomeno ad 1/3 dei valori, il quale seppur più realistico, è comunque sovrastimato poiché non tiene conto della presenza di nubi e di vegetazione ad alto fusto. Dalle simulazioni effettuate, si evince che gli aerogeneratori di progetto generano maggiormente il fenomeno di shadow/flickering sul recettore "C" individuati nell'analisi che, nelle ipotesi di "Worst case", subiscono il fenomeno per un periodo che si avvicina o supera di poco le 100 ore/anno, per tutti gli altri rimanenti recettori considerati invece, l'effetto calcolato è più modesto e/o comunque meno rilevante fino a divenire irrilevante e in alcuni casi nullo.

Con le considerazioni di cui sopra, ovvero prevedendo la riduzione ad 1/3 si avranno valori sicuramente più ridotti solo per il recettore "C" si superano le 100 ore/anno e comunque è abitato meno di 4 ore giorno e quindi la probabilità di accadimento si riduce quasi al nulla.

E' stato elaborato un calendario dell'ombra riportato in appendice (rif. Appendice Calendar), che riporta in maniera grafica giorno per giorno, per tutto l'anno, la durata giornaliera del fenomeno, l'orario di inizio e di fine del fenomeno, nelle condizioni di caso reale. Dalla lettura del "Calendar" si legge che il fenomeno dell'ombreggiamento, si esplica sui recettori con intensità maggiore nel periodo compreso tra Gennaio, Marzo, Aprile, Settembre, Novembre e Dicembre nelle prime ore della giornata, oppure al primo pomeriggio. Nella figura che segue è riportato a titolo di esempio il grafico "calendar" di un recettore: le macchie individuano i momenti di shadow, la posizione nel grafico individua tempo e durata del fenomeno, il colore della macchia individua la turbina che causa il fenomeno.

L'allegato 2 riporta il dettaglio analitico di quanto espresso dal grafico precedente con gli specifici orari di inizio e di fine del fenomeno. A seguire è altresì riportata la sintesi grafica annuale (come mostra l'immagine precedente) dell'apporto di ombreggiamento a carico di ogni recettore ed il/gli aerogeneratore/i responsabile/i del fenomeno.

E' stata inoltre elaborata una mappa (report Map, Allegato 3) in cui vengono riportate, con diverse gradazioni di colore, le zone soggette ad una determinata durata del fenomeno dell'ombreggiamento oltre all'estensione areale nella quale il fenomeno risulta significativo.

Il fenomeno dell'ombreggiamento interessa marginalmente tratti di strade comunali e/o private per un numero di ore all'anno del tutto irrilevanti e cioè pari ad un massimo di 30 ore/anno, ma solo in alcuni tratti. Preme tuttavia evidenziare che nelle simulazioni non si è tenuto conto della possibile presenza di

vegetazione capace di offrire un effetto “barriera” ai recettori e/o alle strade limitrofe. Inoltre, la percezione dell’impianto dalla strada risulterebbe essere “in movimento” e quindi legata alla breve permanenza delle automobili in transito, per cui il fastidio indotto sarebbe temporalmente limitato. A questo si aggiunge che le simulazioni sono state effettuate assumendo le “condizioni peggiori”, sovrastimando pertanto l’effetto di flickering.

5. CONCLUSIONI E RACCOMANDAZIONI

In conclusione, si può affermare che i risultati ottenuti della elaborazioni evidenziano, pur considerando le condizioni più sfavorevoli, che le turbine di progetto generano effetti di shadow flickering **i cui impatti risultano essere nulli per molte strutture, e piuttosto modesti (o non particolarmente problematici) per altre.**

In ogni caso è comunque da rimarcare l’effetto di sovrastima dovuto al grado di cautela utilizzato per la simulazione che non tiene in conto di tutte le possibili fonti di attenuazione dell’effetto cui ogni recettore è (o può essere) soggetto quali presenza di alberi, ostacoli, siepi e quant’altro possa attenuare il fenomeno dell’evoluzione giornaliera dell’ombra.

6. ELENCO ALLEGATI

1. Main result: quadro sintetico dei risultati di calcolo;
2. Calendar: analisi giornaliera dell’effetto “flickering” ricevuto da ogni recettore;
3. Calendar, graphical: grafico dell’analisi giornaliera dell’effetto “flickering” ricevuto da ogni recettore;
4. Calendar per WTG: analisi giornaliera dell’effetto “flickering” indotto da ogni aerogeneratore sui recettori;
6. Map: mappa delle aree soggette ad ombreggiamento.

Altamura, Settembre 2024

Arch. Antonio Demaio



SHADOW - Main Result

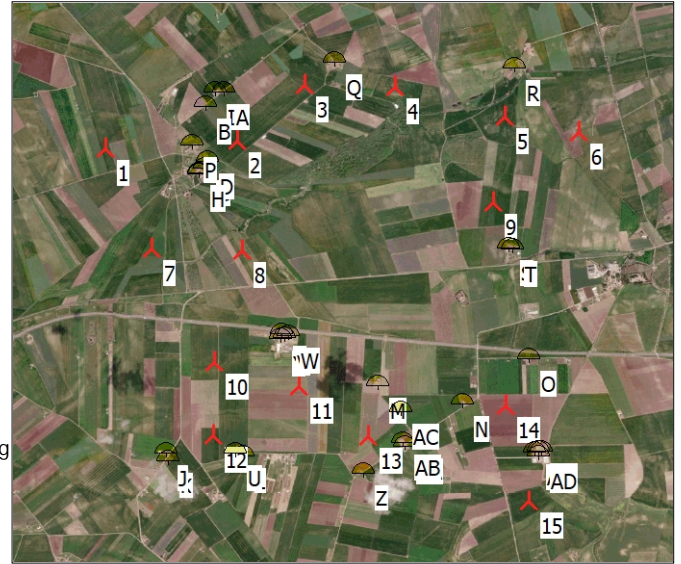
Assumptions for shadow calculations

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:
Height contours used: Elevation Grid Data Object: ASCOLI 2_EMDGrid_0.wpg
Obstacles used in calculation
Eye height for map: 1,5 m
Grid resolution: 1,0 m

All coordinates are in
UTM (north)-WGS84 Zone: 33



Scale 1:75.000
New WTG Shadow receptor

WTGs

	Easting	Northing	Z	Row data/Description	WTG type			Shadow data				
					Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Calculation distance [m]	RPM
1	554.695	4.560.954	267,2	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
2	556.001	4.561.030	250,8	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
3	556.672	4.561.583	238,5	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
4	557.568	4.561.560	234,7	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
5	558.655	4.561.265	215,1	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
6	559.397	4.561.110	230,2	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
7	555.156	4.559.957	262,7	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
8	556.052	4.559.938	252,8	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
9	558.541	4.560.419	245,4	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
10	555.771	4.558.833	283,9	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
11	556.611	4.558.594	271,6	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
12	555.769	4.558.110	293,8	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
13	557.299	4.558.096	263,8	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
14	558.673	4.558.406	256,3	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1
15	558.900	4.557.446	254,8	VESTAS V172 7200 172.0 !O! hub:...No		VESTAS	V172-7.200	7.200	172,0	114,0	1.887	12,1

Shadow receptor-Input

No.	Easting	Northing	Z	Width	Height	Elevation a.g.l.	Degrees from south cw	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
			[m]	[m]	[m]	[m]	[°]	[°]		[m]
A	555.869	4.561.510	247,8	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
B	555.685	4.561.361	248,0	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
C	555.678	4.560.748	255,5	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
D	555.712	4.560.815	255,9	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
E	555.623	4.560.707	255,7	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
F	555.618	4.560.703	255,7	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
G	555.621	4.560.693	255,5	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
H	555.622	4.560.689	255,4	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
I	555.786	4.561.502	249,3	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
J	555.296	4.557.924	307,9	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
K	555.315	4.557.844	308,2	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
L	556.057	4.557.893	284,5	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
M	557.401	4.558.590	259,9	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
N	558.242	4.558.412	256,6	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
O	558.894	4.558.857	254,3	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0

To be continued on next page...

SHADOW - Main Result

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation a.g.l.	Degrees from south cw	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
			[m]	[m]	[m]	[m]	[°]	[°]		[m]
P	555.559	4.560.976	260,0	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
Q	556.968	4.561.802	245,2	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
R	558.750	4.561.743	212,6	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
S	558.699	4.559.960	248,6	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
T	558.736	4.559.952	248,9	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
U	555.987	4.557.921	286,5	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
V	556.470	4.559.067	271,8	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
W	556.509	4.559.089	270,8	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
X	556.445	4.559.108	270,9	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
Y	556.431	4.559.064	271,6	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
Z	557.256	4.557.722	266,2	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
AA	557.670	4.557.988	262,3	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
AB	557.649	4.558.028	263,2	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
AC	557.630	4.558.332	258,9	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
AD	558.996	4.557.901	257,5	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
AE	558.997	4.557.941	257,8	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
AF	559.023	4.557.944	258,3	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0
AG	558.955	4.557.937	257,4	1,0	1,0	1,0	0,0	90,0	Fixed direction	2,0

Calculation Results

Shadow receptor

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
A	19:40	76	0:32
B	178:17	143	1:31
C	0:00	0	0:00
D	0:00	0	0:00
E	0:00	0	0:00
F	0:00	0	0:00
G	0:00	0	0:00
H	0:00	0	0:00
I	27:15	90	0:34
J	0:00	0	0:00
K	0:00	0	0:00
L	0:00	0	0:00
M	48:11	145	0:35
N	100:09	157	1:12
O	38:54	80	0:53
P	39:24	79	0:59
Q	313:46	170	2:43
R	51:39	100	0:44
S	0:00	0	0:00
T	0:00	0	0:00
U	0:00	0	0:00
V	48:47	71	0:54
W	43:53	67	0:51
X	52:21	74	0:54
Y	54:18	75	0:56
Z	5:42	28	0:18
AA	13:31	46	0:28
AB	25:31	107	0:27
AC	237:04	199	1:38
AD	0:00	0	0:00
AE	0:00	0	0:00
AF	0:00	0	0:00
AG	0:00	0	0:00

SHADOW - Main Result

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

No.	Name	Worst case [h/year]
1	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (1)	58:43
2	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (2)	207:46
3	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (3)	250:17
4	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (4)	82:06
5	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (5)	3:57
6	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (6)	34:31
7	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (7)	0:00
8	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (8)	0:00
9	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (9)	0:00
10	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (10)	69:55
11	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (11)	19:17
12	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (12)	14:26
13	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (13)	255:30
14	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (14)	113:11
15	VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (15)	42:35

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

SHADOW - Calendar

Shadow receptor: A - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (1)
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	07:23 16:39	07:10 17:13	16:34 (1) 16:49 (1)	06:34 17:48	06:43 19:22	07:24 (3) 19:54	05:57 20:24	
2	07:24 16:40	07:09 17:15	16:33 (1) 16:51 (1)	06:32 17:49	06:41 19:23	07:26 (3) 07:31 (3)	05:56 19:55	05:27 20:24
3	07:24 16:41	07:08 17:16	16:32 (1) 16:52 (1)	06:31 17:50	06:40 19:24	07:28 (3) 07:31 (3)	05:54 19:56	05:27 20:25
4	07:24 16:42	07:07 17:17	16:32 (1) 16:54 (1)	06:29 17:51	06:38 19:25	07:29 (3) 07:32 (3)	05:53 19:57	05:27 20:26
5	07:24 16:43	07:06 17:18	16:31 (1) 16:55 (1)	06:28 17:52	06:36 19:26	07:31 (3) 07:33 (3)	05:52 19:58	05:26 20:27
6	07:24 16:43	07:05 17:20	16:31 (1) 16:57 (1)	06:26 17:53	06:35 19:27		05:50 19:59	05:26 20:27
7	07:24 16:44	07:04 17:21	16:30 (1) 16:57 (1)	06:24 17:55	06:33 19:28		05:49 20:00	05:26 20:28
8	07:23 16:45	07:03 17:22	16:30 (1) 16:59 (1)	06:23 17:56	06:31 19:29		05:48 20:01	05:25 20:28
9	07:23 16:46	07:01 17:23	16:30 (1) 17:00 (1)	06:21 17:57	06:30 19:30		05:47 20:02	05:25 20:29
10	07:23 16:47	07:00 17:25	16:30 (1) 17:02 (1)	06:20 17:58	06:28 19:32		05:46 20:03	05:25 20:30
11	07:23 16:48	06:59 17:26	16:31 (1) 17:02 (1)	06:18 17:59	06:26 19:33		05:45 20:04	05:25 20:30
12	07:23 16:50	06:58 17:27	16:30 (1) 17:01 (1)	06:16 18:00	06:25 19:34		05:44 20:05	05:25 20:31
13	07:22 16:51	06:56 17:28	16:31 (1) 17:01 (1)	06:15 18:01	06:23 19:35		05:43 20:06	05:24 20:31
14	07:22 16:52	06:55 17:30	16:32 (1) 17:01 (1)	06:13 18:02	06:22 19:36		05:42 20:07	05:24 20:32
15	07:22 16:53	06:54 17:31	16:32 (1) 16:59 (1)	06:11 18:04	06:20 19:37		05:41 20:08	05:24 20:32
16	07:21 16:54	06:53 17:32	16:33 (1) 16:59 (1)	06:10 18:05	06:19 19:38		05:40 20:09	05:24 20:32
17	07:21 16:55	06:51 17:33	16:34 (1) 16:58 (1)	06:08 18:06	06:17 19:39		05:39 20:10	05:24 20:33
18	07:20 16:56	06:50 17:35	16:35 (1) 16:56 (1)	06:06 18:07	06:15 19:40		05:38 20:11	05:24 20:33
19	07:20 16:57	06:49 17:36	16:37 (1) 16:55 (1)	06:05 18:08	06:14 19:41		05:37 20:12	05:25 20:33
20	07:19 16:59	06:47 17:37	16:39 (1) 16:51 (1)	06:03 18:09	06:12 19:42		05:36 20:13	05:25 20:34
21	07:19 17:00	06:46 17:38		06:01 18:10	06:11 19:43		05:35 20:14	05:25 20:34
22	07:18 17:01	06:44 17:39		06:00 18:11	06:09 19:44		05:34 20:15	05:25 20:34
23	07:17 17:02	06:43 17:41		05:58 18:12	06:08 19:45		05:33 20:16	05:25 20:34
24	07:17 17:03	06:41 17:42		05:56 18:13	06:15 (4) 06:07		05:33 20:17	05:26 20:35
25	07:16 17:05	06:40 17:43		05:55 18:14	06:14 (4) 19:48		05:32 20:18	05:26 20:35
26	07:15 17:06	06:38 17:44		05:53 18:15	06:15 (4) 19:49		05:31 20:19	05:26 20:35
27	07:14 17:07	06:37 17:45		05:51 18:17	06:18 (3) 19:50		05:31 20:20	05:27 20:35
28	07:14 17:08	06:35 17:46		05:50 18:18	06:19 (3) 19:51		05:30 20:20	05:27 20:35
29	07:13 17:10	16:38 (1) 16:45 (1)		06:48 19:19	07:20 (3) 19:52		05:29 20:21	05:27 20:35
30	07:12 17:11	16:36 (1) 16:47 (1)		06:46 19:20	07:22 (3) 19:53		05:29 20:22	05:28 20:35
31	07:11 17:12	16:35 (1) 16:48 (1)		06:44 19:21	07:23 (3) 07:29 (3)		05:28 20:23	
Potential sun hours	297		369		399		449	453
Total, worst case	31	297	492	42	19			

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

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

Shadow receptor: A - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (1)
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	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	06:28 16:55	16:00 (1) 16:30
2	05:29 20:35	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	31 16:00 (1) 16:30
3	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	30 16:00 (1) 16:29
4	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	27 16:00 (1) 16:29
5	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	25 16:01 (1) 16:29
6	05:31 20:34	05:57 20:10	06:28 19:24	07:28 (3) 07:29 (3)	06:59 18:33	24 16:01 (1) 16:29
7	05:32 20:33	05:58 20:09	06:29 19:22	07:26 (3) 07:28 (3)	07:00 18:31	22 16:01 (1) 16:29
8	05:32 20:33	05:59 20:07	06:30 19:21	07:24 (3) 07:27 (3)	07:01 18:30	20 16:02 (1) 16:29
9	05:33 20:33	06:00 20:06	06:31 19:19	07:22 (3) 07:26 (3)	07:02 18:28	18 16:04 (1) 16:29
10	05:34 20:32	06:01 20:05	06:32 19:17	07:20 (3) 07:24 (3)	07:03 18:27	15 16:05 (1) 16:29
11	05:34 20:32	06:02 20:04	06:33 19:16	07:18 (3) 07:23 (3)	07:04 18:25	13 16:06 (1) 16:29
12	05:35 20:31	06:03 20:02	06:34 19:14	07:16 (3) 07:21 (3)	07:05 18:23	11 16:08 (1) 16:29
13	05:36 20:31	06:04 20:01	06:35 19:12	07:14 (3) 07:19 (3)	07:06 18:22	7 16:10 (1) 16:29
14	05:36 20:30	06:05 19:59	06:36 19:10	07:11 (3) 07:17 (3)	07:07 18:20	16:41 16:29
15	05:37 20:30	06:06 19:58	06:37 19:09	07:09 (3) 07:14 (3)	07:08 18:19	16:40 16:30
16	05:38 20:29	06:07 19:57	06:38 19:07	07:07 (3) 07:11 (4)	07:10 18:17	16:40 16:30
17	05:39 20:29	06:08 19:55	06:39 19:05	07:04 (4) 07:09 (4)	07:11 18:16	16:40 16:30
18	05:40 20:28	06:09 19:54	06:40 19:04	07:02 (4) 07:08 (4)	07:12 18:14	16:40 16:30
19	05:40 20:27	06:10 19:52	06:41 19:02	07:01 (4) 07:07 (4)	07:13 18:13	16:40 16:31
20	05:41 20:27	06:11 19:51	06:42 19:00	07:02 (4) 07:05 (4)	07:14 18:11	16:40 16:31
21	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	17:14 (1) 17:19 (1)	06:52 16:35
22	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	17:09 (1) 17:23 (1)	06:53 16:34
23	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	17:06 (1) 17:25 (1)	06:54 16:34
24	05:45 20:23	06:15 19:45	06:46 18:53	07:19 18:05	17:05 (1) 17:27 (1)	06:55 16:33
25	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	16:04 (1) 16:28 (1)	06:56 16:33
26	05:47 20:22	06:17 19:42	06:48 18:50	06:21 17:02	16:02 (1) 16:29 (1)	06:58 16:32
27	05:48 20:21	06:18 19:40	06:49 18:48	06:22 17:01	16:01 (1) 16:29 (1)	06:59 16:32
28	05:48 20:20	06:19 19:39	06:50 18:47	06:23 17:00	16:00 (1) 16:29 (1)	07:00 16:31
29	05:49 20:19	06:20 19:37	06:51 18:45	06:24 16:58	16:01 (1) 16:31 (1)	07:01 16:31
30	05:50 20:18	06:21 19:35	06:52 18:43	06:26 16:57	16:00 (1) 16:31 (1)	07:02 16:30
31	05:51 20:17	06:22 19:34		06:27 16:56	15:59 (1) 16:31 (1)	07:23 16:38
Potential sun hours	459	428	375	345	298	271
Total, worst case			64	261		287

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: B - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (2)
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	07:23 16:39 90	08:12 (2) 09:42 (2)	07:10 17:13 78	08:27 (2) 09:45 (2)	06:34 17:48 20	16:40 (1) 19:22	06:43 19:54	05:57 20:24
2	07:24 16:40 90	08:12 (2) 09:42 (2)	07:09 17:15 76	08:28 (2) 09:44 (2)	06:32 17:49 14	16:42 (1) 16:56 (1)	06:41 19:23	05:56 19:55
3	07:24 16:41 90	08:13 (2) 09:43 (2)	07:08 17:16 74	08:29 (2) 09:43 (2)	06:31 17:50	06:40 19:24	05:54 19:56	05:27 20:25
4	07:24 16:42 90	08:13 (2) 09:43 (2)	07:07 17:17 72	08:30 (2) 09:42 (2)	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:26
5	07:24 16:43 91	08:13 (2) 09:44 (2)	07:06 17:18 79	08:31 (2) 16:55 (1)	06:28 17:52	06:36 19:26	05:52 19:58	05:26 20:27
6	07:24 16:43 90	08:14 (2) 09:44 (2)	07:05 17:20 83	08:32 (2) 16:57 (1)	06:26 17:53	06:35 19:27	05:50 19:59	05:26 20:27
7	07:24 16:44 90	08:15 (2) 09:45 (2)	07:04 17:21 84	08:32 (2) 16:57 (1)	06:24 17:55	06:33 19:28	05:49 20:00	05:26 20:28
8	07:24 16:45 91	08:14 (2) 09:45 (2)	07:03 17:22 83	08:34 (2) 16:59 (1)	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28
9	07:23 16:46 90	08:15 (2) 09:45 (2)	07:01 17:23 84	08:35 (2) 17:00 (1)	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29
10	07:23 16:47 90	08:16 (2) 09:46 (2)	07:00 17:25 84	08:37 (2) 17:02 (1)	06:20 17:58	06:28 19:32	05:46 20:03	05:25 20:30
11	07:23 16:48 90	08:16 (2) 09:46 (2)	06:59 17:26 81	08:39 (2) 17:03 (1)	06:18 17:59	06:26 19:33	05:45 20:04	05:25 20:30
12	07:23 16:50 90	08:16 (2) 09:46 (2)	06:58 17:27 82	08:39 (2) 17:04 (1)	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:31
13	07:22 16:51 90	08:17 (2) 09:47 (2)	06:57 17:28 79	08:42 (2) 17:06 (1)	06:15 18:01	06:23 19:35	05:43 20:06	05:24 20:31
14	07:22 16:52 90	08:17 (2) 09:47 (2)	06:55 17:30 75	08:44 (2) 17:07 (1)	06:13 18:02	06:22 19:36	05:42 20:07	05:24 20:32
15	07:22 16:53 89	08:18 (2) 09:47 (2)	06:54 17:31 73	08:46 (2) 17:08 (1)	06:11 18:04	06:20 19:37	05:41 20:08	05:24 20:32
16	07:21 16:54 90	08:18 (2) 09:48 (2)	06:53 17:32 66	08:49 (2) 17:09 (1)	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32
17	07:21 16:55 90	08:18 (2) 09:48 (2)	06:51 17:33 58	08:54 (2) 17:10 (1)	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33
18	07:20 16:56 89	08:18 (2) 09:47 (2)	06:50 17:35 37	16:32 (1) 17:09 (1)	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33
19	07:20 16:57 88	08:20 (2) 09:48 (2)	06:49 17:36 38	16:32 (1) 17:10 (1)	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33
20	07:19 16:59 88	08:20 (2) 09:48 (2)	06:47 17:37 37	16:32 (1) 17:09 (1)	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34
21	07:19 17:00 87	08:21 (2) 09:48 (2)	06:46 17:38 37	16:32 (1) 17:09 (1)	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34
22	07:18 17:01 87	08:21 (2) 09:48 (2)	06:44 17:39 36	16:33 (1) 17:09 (1)	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34
23	07:17 17:02 87	08:21 (2) 09:48 (2)	06:43 17:41 35	16:33 (1) 17:08 (1)	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34
24	07:17 17:03 85	08:22 (2) 09:47 (2)	06:41 17:42 34	16:34 (1) 17:08 (1)	05:56 18:13	06:07 19:47	05:33 20:17	05:26 20:35
25	07:16 17:05 85	08:23 (2) 09:48 (2)	06:40 17:43 32	16:34 (1) 17:06 (1)	05:55 18:14	06:05 19:48	05:32 20:18	05:26 20:35
26	07:15 17:06 85	08:23 (2) 09:48 (2)	06:38 17:44 30	16:36 (1) 17:06 (1)	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35
27	07:14 17:07 83	08:24 (2) 09:47 (2)	06:37 17:45 27	16:37 (1) 17:04 (1)	05:51 18:17	06:02 19:50	05:31 20:20	05:27 20:35
28	07:14 17:08 83	08:24 (2) 09:47 (2)	06:35 17:46 24	16:38 (1) 17:02 (1)	05:50 18:18	06:01 19:51	05:30 20:20	05:27 20:35
29	07:13 17:10 81	08:25 (2) 09:46 (2)	06:48 17:46 24	06:48 19:19	06:48 19:19	06:00 19:52	05:29 20:21	05:27 20:35
30	07:12 17:11 80	08:26 (2) 09:46 (2)	06:46 19:20	06:46 19:20	06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35
31	07:11 17:12 79	08:26 (2) 09:45 (2)	06:45 19:21	06:45 19:21	06:45 19:21	06:01 20:23	05:28 20:23	05:27 20:35
Potential sun hours	297	297	369	399	449	453		
Total, worst case	2718	1678	34					

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

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

Shadow receptor: B - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (2)

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	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	06:28 16:55	08:06 (2) 16:31 (1)
2	05:29 20:35	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	08:05 (2) 16:30 (1)
3	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	08:03 (2) 16:28 (1)
4	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	08:02 (2) 16:27 (1)
5	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	08:02 (2) 16:26 (1)
6	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	08:01 (2) 16:24 (1)
7	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	06:35 16:48	08:00 (2) 09:12 (2)
8	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:59 (2) 09:13 (2)
9	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:59 (2) 09:15 (2)
10	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	06:39 16:44	07:58 (2) 09:16 (2)
11	05:34 20:32	06:02 20:04	06:33 19:16	07:04 18:25	17:19 (1) 16:43	07:57 (2) 09:16 (2)
12	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	17:14 (1) 16:42	07:57 (2) 09:18 (2)
13	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	17:12 (1) 16:41	07:57 (2) 09:18 (2)
14	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	17:10 (1) 16:40	07:56 (2) 09:19 (2)
15	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	17:08 (1) 16:40	06:45 09:19 (2)
16	05:38 20:29	06:07 19:57	06:38 19:07	07:10 18:17	17:07 (1) 16:39	06:46 09:21 (2)
17	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	17:06 (1) 16:38	06:47 09:21 (2)
18	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	17:04 (1) 16:37	06:48 09:21 (2)
19	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	17:04 (1) 16:36	06:49 09:23 (2)
20	05:41 20:27	06:11 19:51	06:42 19:00	07:14 18:11	17:04 (1) 16:36	06:51 09:23 (2)
21	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	17:03 (1) 16:35	06:52 09:23 (2)
22	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	17:02 (1) 16:34	06:53 09:24 (2)
23	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	17:02 (1) 16:34	06:54 09:24 (2)
24	05:45 20:23	06:15 19:45	06:46 18:53	07:19 18:05	09:30 (2) 16:33	06:55 09:25 (2)
25	05:46 20:22	06:16 19:43	06:47 18:52	07:20 18:04	08:23 (2) 16:33	06:56 09:26 (2)
26	05:47 20:22	06:17 19:42	06:48 18:50	07:21 18:03	08:18 (2) 16:32	06:58 09:26 (2)
27	05:48 20:21	06:18 19:40	06:49 18:48	07:22 18:02	08:15 (2) 16:32	06:59 09:26 (2)
28	05:48 20:20	06:19 19:39	06:50 18:47	07:23 18:01	08:13 (2) 16:31	07:00 09:27 (2)
29	05:49 20:19	06:20 19:37	06:51 18:45	07:24 18:00	08:11 (2) 16:31	07:01 09:27 (2)
30	05:50 20:18	06:21 19:35	06:52 18:43	07:25 17:59	08:09 (2) 16:30	07:02 09:28 (2)
31	05:51 20:17	06:22 19:34	06:53 18:42	07:26 17:58	08:07 (2) 16:30	07:03 09:28 (2)
Potential sun hours	459	428	375	345	298	287
Total, worst case				951	2522	2794

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: C - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (3)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	06:28 16:55	07:03 16:30
2	07:24 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:35	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	06:36 19:26	05:52 19:58	05:26 20:27	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	06:35 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	06:33 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	06:35 16:48	07:09 16:29
8	07:23 16:45	07:03 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:20 17:58	06:28 19:32	05:46 20:03	05:25 20:30	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	06:39 16:44	07:12 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	06:26 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:04	06:33 19:16	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	06:23 19:35	05:43 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:10 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:49 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:27	06:11 19:51	06:42 19:00	07:14 18:11	06:51 16:36	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	06:07 19:47	05:33 20:17	05:26 20:35	05:45 20:23	06:15 19:45	06:46 18:53	07:19 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:22	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	06:02 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	06:22 17:01	06:59 16:32	07:22 16:35
28	07:14 17:08	06:35 17:46	05:50 18:18	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:47	06:23 17:00	07:00 16:31	07:22 16:36
29	07:13 17:10		06:48 19:19	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	06:26 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (4)

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	07:23	07:10	06:34	06:43	05:57	05:28	05:28	05:52	06:23	06:53	06:28	07:03
	16:39	17:13	17:48	19:22	19:54	20:24	20:35	20:16	19:32	18:41	16:55	16:30
2	07:24	07:09	06:32	06:41	05:56	05:27	05:29	05:53	06:24	06:55	06:29	07:04
	16:40	17:15	17:49	19:23	19:55	20:24	20:35	20:14	19:31	18:40	16:53	16:30
3	07:24	07:08	06:31	06:40	05:54	05:27	05:29	05:54	06:25	06:56	06:30	07:05
	16:41	17:16	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:38	16:52	16:30
4	07:24	07:07	06:29	06:38	05:53	05:27	05:30	05:55	06:26	06:57	06:31	07:06
	16:42	17:17	17:51	19:25	19:57	20:26	20:34	20:12	19:27	18:36	16:51	16:29
5	07:24	07:06	06:28	06:36	05:52	05:26	05:30	05:56	06:27	06:58	06:33	07:07
	16:43	17:18	17:52	19:26	19:58	20:27	20:34	20:11	19:26	18:35	16:50	16:29
6	07:24	07:05	06:26	06:35	05:51	05:26	05:31	05:57	06:28	06:59	06:34	07:08
	16:43	17:20	17:53	19:27	19:59	20:27	20:34	20:10	19:24	18:33	16:49	16:29
7	07:24	07:04	06:24	06:33	05:49	05:26	05:32	05:58	06:29	07:00	06:35	07:09
	16:44	17:21	17:55	19:28	20:00	20:28	20:33	20:09	19:22	18:31	16:48	16:29
8	07:23	07:03	06:23	06:31	05:48	05:25	05:32	05:59	06:30	07:01	06:36	07:10
	16:45	17:22	17:56	19:29	20:01	20:28	20:33	20:07	19:21	18:30	16:46	16:29
9	07:23	07:01	06:21	06:30	05:47	05:25	05:33	06:00	06:31	07:02	06:37	07:11
	16:46	17:23	17:57	19:30	20:02	20:29	20:33	20:06	19:19	18:28	16:45	16:29
10	07:23	07:00	06:20	06:28	05:46	05:25	05:34	06:01	06:32	07:03	06:39	07:12
	16:47	17:25	17:58	19:32	20:03	20:30	20:32	20:05	19:17	18:27	16:44	16:29
11	07:23	06:59	06:18	06:26	05:45	05:25	05:34	06:02	06:33	07:04	06:40	07:12
	16:49	17:26	17:59	19:33	20:04	20:30	20:32	20:04	19:16	18:25	16:43	16:29
12	07:23	06:58	06:16	06:25	05:44	05:25	05:35	06:03	06:34	07:05	06:41	07:13
	16:50	17:27	18:00	19:34	20:05	20:31	20:31	20:02	19:14	18:23	16:42	16:29
13	07:22	06:56	06:15	06:23	05:43	05:24	05:36	06:04	06:35	07:06	06:42	07:14
	16:51	17:28	18:01	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:41	16:29
14	07:22	06:55	06:13	06:22	05:42	05:24	05:36	06:05	06:36	07:07	06:43	07:15
	16:52	17:30	18:02	19:36	20:07	20:32	20:30	19:59	19:10	18:20	16:40	16:29
15	07:22	06:54	06:11	06:20	05:41	05:24	05:37	06:06	06:37	07:08	06:45	07:16
	16:53	17:31	18:04	19:37	20:08	20:32	20:30	19:58	19:09	18:19	16:40	16:30
16	07:21	06:53	06:10	06:19	05:40	05:24	05:38	06:07	06:38	07:10	06:46	07:16
	16:54	17:32	18:05	19:38	20:09	20:32	20:29	19:57	19:07	18:17	16:39	16:30
17	07:21	06:51	06:08	06:17	05:39	05:24	05:39	06:08	06:39	07:11	06:47	07:17
	16:55	17:33	18:06	19:39	20:10	20:33	20:29	19:55	19:05	18:16	16:38	16:30
18	07:20	06:50	06:06	06:15	05:38	05:25	05:40	06:09	06:40	07:12	06:48	07:18
	16:56	17:35	18:07	19:40	20:11	20:33	20:28	19:54	19:04	18:14	16:37	16:30
19	07:20	06:49	06:05	06:14	05:37	05:25	05:40	06:10	06:41	07:13	06:49	07:18
	16:57	17:36	18:08	19:41	20:12	20:33	20:27	19:52	19:02	18:13	16:36	16:31
20	07:19	06:47	06:03	06:12	05:36	05:25	05:41	06:11	06:42	07:14	06:51	07:19
	16:59	17:37	18:09	19:42	20:13	20:34	20:27	19:51	19:00	18:11	16:36	16:31
21	07:19	06:46	06:01	06:11	05:35	05:25	05:42	06:12	06:43	07:15	06:52	07:19
	17:00	17:38	18:10	19:43	20:14	20:34	20:26	19:49	18:58	18:10	16:35	16:32
22	07:18	06:44	06:00	06:09	05:34	05:25	05:43	06:13	06:44	07:16	06:53	07:20
	17:01	17:39	18:11	19:44	20:15	20:34	20:25	19:48	18:57	18:08	16:34	16:32
23	07:17	06:43	05:58	06:08	05:33	05:25	05:44	06:14	06:45	07:17	06:54	07:20
	17:02	17:41	18:12	19:45	20:16	20:34	20:24	19:46	18:55	18:07	16:34	16:33
24	07:17	06:41	05:56	06:07	05:33	05:26	05:45	06:15	06:46	07:19	06:55	07:21
	17:03	17:42	18:13	19:47	20:17	20:35	20:23	19:45	18:53	18:05	16:33	16:33
25	07:16	06:40	05:55	06:05	05:32	05:26	05:46	06:16	06:47	06:20	06:56	07:21
	17:05	17:43	18:14	19:48	20:18	20:35	20:22	19:43	18:52	17:04	16:33	16:34
26	07:15	06:38	05:53	06:04	05:31	05:26	05:47	06:17	06:48	06:21	06:57	07:22
	17:06	17:44	18:15	19:49	20:19	20:35	20:22	19:42	18:50	17:02	16:32	16:34
27	07:14	06:37	05:51	06:02	05:31	05:27	05:48	06:18	06:49	06:22	06:59	07:22
	17:07	17:45	18:17	19:50	20:20	20:35	20:21	19:40	18:48	17:01	16:32	16:35
28	07:14	06:35	05:50	06:01	05:30	05:27	05:48	06:19	06:50	06:23	07:00	07:22
	17:08	17:46	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:31	16:36
29	07:13		06:48	06:00	05:29	05:27	05:49	06:20	06:51	06:24	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:58	16:31	16:36
30	07:12		06:46	05:58	05:29	05:28	05:50	06:21	06:52	06:26	07:02	07:23
	17:11		19:20	19:53	20:22	20:35	20:18	19:35	18:43	16:57	16:30	16:37
31	07:11		06:45		05:28		05:51	06:22		06:27		07:23
	17:12		19:21		20:23		20:17	19:34		16:56		16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Total, worst case												

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: E - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (5)
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
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2	07:24 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:35	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	07:06 16:29
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31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (6)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	06:28 16:55	07:03 16:30
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31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (7)

Assumptions for shadow calculations

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

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- The WTG is always operating

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11	07:23 16:49	06:59 17:26	06:18 17:59	06:26 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:04	06:33 19:16	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	06:23 19:35	05:43 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:10 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:49 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:27	06:11 19:51	06:42 19:00	07:14 18:11	06:51 16:36	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	06:07 19:47	05:33 20:17	05:26 20:35	05:45 20:23	06:15 19:45	06:46 18:53	07:19 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:22	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	06:02 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	06:22 17:01	06:59 16:32	07:22 16:35
28	07:14 17:08	06:35 17:46	05:50 18:18	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:47	06:23 17:00	07:00 16:31	07:22 16:36
29	07:13 17:10		06:48 19:19	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	06:26 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (8)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	06:28 16:55	07:03 16:30
2	07:24 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:35	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	06:36 19:26	05:52 19:58	05:26 20:27	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	06:35 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	06:33 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	06:35 16:48	07:09 16:29
8	07:23 16:45	07:03 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:20 17:58	06:28 19:32	05:46 20:03	05:25 20:30	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	06:39 16:44	07:12 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	06:26 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:04	06:33 19:16	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	06:23 19:35	05:43 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:10 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:49 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:27	06:11 19:51	06:42 19:00	07:14 18:11	06:51 16:36	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	06:07 19:47	05:33 20:17	05:26 20:35	05:45 20:23	06:15 19:45	06:46 18:53	07:19 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:22	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	06:02 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	06:22 17:01	06:59 16:32	07:22 16:35
28	07:14 17:08	06:35 17:46	05:50 18:18	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:47	06:23 17:00	07:00 16:31	07:22 16:36
29	07:13 17:10		06:48 19:19	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	06:26 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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: I - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (9)
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	07:23 16:39	07:10 17:13	16:25 (1) 16:49 (1)	06:34 17:48		
2	07:24 16:40	07:09 17:15	16:25 (1) 16:51 (1)	06:32 17:49	07:24 (3) 19:22	05:57 20:24
3	07:24 16:41	07:08 17:16	16:25 (1) 16:52 (1)	06:31 17:50	07:26 (3) 19:23	05:54 20:26
4	07:24 16:42	07:07 17:17	16:24 (1) 16:54 (1)	06:29 17:51	07:27 (3) 19:23	05:56 20:27
5	07:24 16:43	07:06 17:18	16:24 (1) 16:55 (1)	06:28 17:52	19:55 19:55	20:24 20:24
6	07:24 16:43	07:05 17:20	16:24 (1) 16:57 (1)	06:26 17:53	05:54 19:56	05:27 20:25
7	07:24 16:44	07:04 17:21	16:24 (1) 16:57 (1)	06:24 17:55	05:53 20:00	05:27 20:28
8	07:24 16:45	07:03 17:22	16:24 (1) 16:57 (1)	06:23 17:56	19:58 20:01	20:27 20:28
9	07:23 16:46	07:01 17:23	16:24 (1) 16:57 (1)	06:21 17:57	05:50 20:02	05:26 20:29
10	07:23 16:47	07:00 17:25	16:25 (1) 16:57 (1)	06:20 17:58	19:58 20:03	20:27 20:30
11	07:23 16:48	06:59 17:26	16:25 (1) 16:57 (1)	06:18 17:59	05:45 20:04	05:25 20:30
12	07:23 16:50	06:58 17:27	16:25 (1) 16:56 (1)	06:16 18:00	05:44 20:05	05:25 20:31
13	07:22 16:51	06:56 17:28	16:26 (1) 16:56 (1)	06:15 18:01	05:43 20:06	05:24 20:31
14	07:22 16:52	06:55 17:30	16:27 (1) 16:55 (1)	06:13 18:02	05:42 20:07	05:24 20:32
15	07:22 16:53	06:54 17:31	16:28 (1) 16:54 (1)	06:11 18:04	05:41 20:08	05:24 20:32
16	07:21 16:54	06:53 17:32	16:29 (1) 16:53 (1)	06:10 18:05	05:40 20:09	05:24 20:32
17	07:21 16:55	06:51 17:33	16:31 (1) 16:52 (1)	06:08 18:06	05:39 20:10	05:24 20:33
18	07:20 16:56	06:50 17:35	16:33 (1) 16:49 (1)	06:06 18:07	05:38 20:11	05:24 20:33
19	07:20 16:57	06:49 17:36	16:37 (1) 16:46 (1)	06:05 18:08	05:37 20:12	05:25 20:33
20	07:19 16:59	06:47 17:37	06:03 18:09	06:03 18:09	05:36 20:13	05:25 20:34
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34
24	07:17 17:03	06:41 17:42	05:56 18:13	06:15 (4) 06:18 (4)	05:33 20:17	05:26 20:35
25	07:16 17:05	16:34 (1) 16:41 (1)	06:40 17:43	05:55 18:14	06:14 (4) 06:19 (4)	05:32 20:18
26	07:15 17:06	16:31 (1) 16:42 (1)	06:38 17:44	05:53 18:15	06:15 (4) 06:19 (4)	05:31 20:19
27	07:14 17:07	16:30 (1) 16:43 (1)	06:37 17:45	05:51 18:17	06:18 (4) 06:20 (4)	05:31 20:20
28	07:14 17:08	16:28 (1) 16:44 (1)	06:35 17:46	05:50 18:18	06:19 (3) 06:20 (3)	05:30 20:20
29	07:13 17:10	16:27 (1) 16:45 (1)	06:48 19:19	06:00 19:52	07:20 (3) 07:22 (3)	05:29 20:21
30	07:12 17:11	16:26 (1) 16:47 (1)	06:46 19:20	05:58 19:53	07:22 (3) 07:24 (3)	05:29 20:22
31	07:11 17:12	16:26 (1) 16:48 (1)	06:45 19:21	05:58 19:53	07:23 (3) 07:25 (3)	05:28 20:23
Potential sun hours	297	297	369	399	449	453
Total, worst case	108	519	21	3		

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

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

Shadow receptor: I - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (9)
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	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	06:28 16:55	15:54 (1) 16:27 (1)	07:03 16:30	
2	05:29 20:35	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	33 15:54 (1) 16:27 (1)	07:04 16:30	
3	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	33 15:54 (1) 16:27 (1)	07:05 16:29	
4	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	34 15:53 (1) 16:27 (1)	07:06 16:29	
5	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	32 15:54 (1) 16:26 (1)	07:07 16:29	
6	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	31 15:54 (1) 16:25 (1)	07:08 16:29	
7	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	06:35 16:47	29 15:54 (1) 16:23 (1)	07:09 16:29	
8	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	28 15:54 (1) 16:22 (1)	07:10 16:29	
9	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	26 15:56 (1) 16:22 (1)	07:11 16:29	
10	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	06:39 16:44	24 15:56 (1) 16:20 (1)	07:12 16:29	
11	05:34 20:32	06:02 20:04	06:33 19:16	07:04 18:25	06:40 16:43	22 15:57 (1) 16:19 (1)	07:12 16:29	
12	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	21 15:58 (1) 16:19 (1)	07:13 16:29	
13	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	18 15:59 (1) 16:17 (1)	07:14 16:29	8 09:52 (2) 10:00 (2)
14	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	16 16:00 (1) 16:16 (1)	07:15 16:29	13 09:50 (2) 10:03 (2)
15	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:40	13 16:02 (1) 16:15 (1)	07:16 16:30	15 09:49 (2) 10:04 (2)
16	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	11 16:04 (1) 16:15 (1)	07:16 16:30	18 09:48 (2) 10:06 (2)
17	05:39 20:29	06:08 19:55	06:39 19:05	07:10 18:16	06:47 16:38	7 16:07 (1) 16:14 (1)	07:17 16:30	20 09:48 (2) 10:08 (2)
18	05:40 20:28	06:09 19:54	06:40 19:04	07:11 18:14	06:48 16:37		07:18 16:30	21 09:47 (2) 10:08 (2)
19	05:40 20:27	06:10 19:52	06:41 19:02	07:12 18:13	06:49 16:36		07:18 16:31	22 09:48 (2) 10:10 (2)
20	05:41 20:27	06:11 19:51	06:42 19:00	07:13 18:11	06:51 16:36		07:19 16:31	22 09:48 (2) 10:10 (2)
21	05:42 20:26	06:12 19:49	06:43 18:58	07:14 18:10	06:52 16:35		07:19 16:32	23 09:48 (2) 10:11 (2)
22	05:43 20:25	06:13 19:48	06:44 18:57	07:15 18:08	06:53 16:34		07:20 16:32	23 09:48 (2) 10:11 (2)
23	05:44 20:24	06:14 19:46	06:45 18:55	07:16 18:07	17:05 (1) 17:17 (1)	06:54 16:34	07:21 16:33	23 09:49 (2) 10:12 (2)
24	05:45 20:23	06:15 19:45	06:46 18:53	07:17 18:05	17:03 (1) 17:20 (1)	06:55 16:33	07:21 16:33	23 09:50 (2) 10:12 (2)
25	05:46 20:22	06:16 19:43	06:47 18:52	07:18 17:04	17:00 (1) 16:22 (1)	06:56 16:33	07:21 16:34	22 09:51 (2) 10:13 (2)
26	05:47 20:22	06:17 19:42	06:48 18:50	07:19 17:02	15:59 (1) 16:23 (1)	06:58 16:32	07:22 16:34	22 09:52 (2) 10:12 (2)
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28	05:48 20:20	06:19 19:39	06:50 18:47	07:21 17:00	15:55 (1) 16:25 (1)	07:00 16:31	07:22 16:36	17 09:54 (2) 10:11 (2)
29	05:49 20:19	06:20 19:37	06:51 18:45	07:22 16:58	15:56 (1) 16:26 (1)	07:01 16:31	07:23 16:36	13 09:57 (2) 10:10 (2)
30	05:50 20:18	06:21 19:35	06:52 18:43	07:23 16:57	15:55 (1) 16:26 (1)	07:02 16:30	07:23 16:37	10 09:59 (2) 10:09 (2)
31	05:51 20:17	06:22 19:34		07:24 16:56	15:54 (1) 16:26 (1)		07:23 16:38	
Potential sun hours	459	428	375	345	298	411	287	330
Total, worst case			20	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: J - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (10)
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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:55	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	07:06 16:29
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6	07:24 16:44	07:05 17:20	06:26 17:53	06:35 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	07:08 16:29
7	07:24 16:45	07:04 17:21	06:24 17:55	06:33 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:32	06:35 16:48	07:09 16:29
8	07:23 16:46	07:03 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:10 16:29
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31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (11)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:55	07:03 16:30
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31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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: L - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (12)
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
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11	07:23 16:49	06:59 17:26	06:18 17:59	06:26 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:16	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	06:23 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:42 20:07	05:24 20:31	05:37 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:41	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:25 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	06:48 16:37	07:18 16:31
19	07:20 16:58	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:41 20:27	06:10 19:52	06:41 19:02	07:13 18:13	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:51 16:36	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:17 17:04	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:21	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	06:02 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	06:22 17:01	06:59 16:32	07:22 16:35
28	07:13 17:08	06:35 17:46	05:50 18:18	06:01 19:51	05:30 20:20	05:27 20:35	05:49 20:20	06:19 19:39	06:50 18:47	06:23 17:00	07:00 16:31	07:22 16:36
29	07:13 17:10		06:48 19:19	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:23 16:37
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	06:25 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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: M - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (13)
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	07:23 16:39	07:50 (15) 08:05 (15)	07:10 17:13	06:34 17:48	17:02 (12) 19:22	18:12 (11) 20:24
2	07:23 16:40	07:51 (15) 08:05 (15)	07:09 17:15	06:32 17:49	17:02 (12) 19:23	18:12 (11) 20:24
3	07:23 16:41	07:52 (15) 08:05 (15)	07:08 17:16	06:31 17:50	06:50 (14) 19:24	18:11 (11) 20:25
4	07:24 16:42	07:54 (15) 08:04 (15)	07:07 17:17	06:29 17:51	06:48 (14) 19:25	18:10 (11) 20:26
5	07:24 16:43	07:55 (15) 08:04 (15)	07:06 17:18	06:27 17:52	06:46 (14) 19:26	18:11 (11) 20:26
6	07:24 16:43	07:57 (15) 08:03 (15)	07:05 17:20	06:26 17:53	06:45 (14) 19:27	18:10 (11) 20:27
7	07:23 16:44	07:04 17:21	07:04 17:21	06:24 17:54	06:43 (14) 19:28	18:09 (11) 20:28
8	07:23 16:45	07:02 17:22	07:02 17:22	06:23 17:56	06:42 (14) 19:29	18:10 (11) 20:28
9	07:23 16:46	07:01 17:23	07:01 17:23	06:21 17:57	06:40 (14) 19:30	18:10 (11) 20:29
10	07:23 16:47	07:00 17:25	07:00 17:25	06:19 17:58	06:38 (14) 19:31	18:10 (11) 20:30
11	07:23 16:48	06:59 17:26	06:59 17:26	06:18 17:59	06:37 (14) 19:33	18:10 (11) 20:30
12	07:23 16:50	06:58 17:27	06:58 17:27	06:16 18:00	06:35 (14) 19:34	18:10 (11) 20:31
13	07:22 16:51	06:56 17:28	06:56 17:28	06:15 18:01	06:33 (14) 19:35	18:11 (11) 20:31
14	07:22 16:52	06:54 17:30	06:54 17:30	06:13 18:02	06:32 (14) 19:36	18:11 (11) 20:31
15	07:22 16:53	06:54 17:31	06:54 17:31	06:11 18:03	06:30 (14) 19:37	18:12 (11) 20:32
16	07:21 16:54	06:52 17:32	06:52 17:32	06:10 18:05	06:29 (14) 19:38	18:12 (11) 20:32
17	07:21 16:55	06:51 17:33	06:51 17:33	06:08 18:06	06:31 (14) 19:39	18:12 (11) 20:33
18	07:20 16:56	06:50 17:34	06:50 17:34	06:06 18:07	06:31 (14) 19:40	18:12 (11) 20:33
19	07:20 16:57	06:48 17:36	06:48 17:36	06:05 18:08	06:32 (14) 19:41	18:12 (11) 20:33
20	07:19 16:59	5 17:06 (12)	17:09 (12) 17:06 (12)	06:03 18:09	06:53 (14) 19:42	18:12 (11) 20:34
21	07:19 17:00	9 17:15 (12)	17:05 (12) 17:15 (12)	06:01 18:10	06:36 (14) 19:43	18:12 (11) 20:34
22	07:18 17:01	11 17:16 (12)	17:06 (12) 17:16 (12)	06:00 18:11	06:48 (14) 19:44	18:12 (11) 20:34
23	07:17 17:02	14 17:17 (12)	17:03 (12) 17:17 (12)	05:58 18:11	17:27 (11) 19:45	18:12 (11) 20:34
24	07:17 17:03	16 17:19 (12)	17:03 (12) 17:19 (12)	05:56 18:13	17:51 (11) 19:46	18:12 (11) 20:34
25	07:16 17:05	19 17:20 (12)	17:01 (12) 17:20 (12)	05:55 18:13	17:25 (11) 19:47	18:12 (11) 20:34
26	07:15 17:06	19 17:21 (12)	17:01 (12) 17:21 (12)	05:53 18:14	17:53 (11) 19:47	18:12 (11) 20:34
27	07:14 17:07	21 17:22 (12)	17:01 (12) 17:22 (12)	05:51 18:15	17:20 (11) 19:49	18:12 (11) 20:35
28	07:13 17:08	23 17:24 (12)	17:01 (12) 17:24 (12)	05:49 18:16	17:19 (11) 19:50	18:12 (11) 20:35
29	07:13 17:10	23 17:24 (12)	17:01 (12) 17:24 (12)	05:49 18:18	17:17 (11) 19:51	18:12 (11) 20:35
30	07:12 17:11	23 17:24 (12)	17:01 (12) 17:24 (12)	05:49 18:18	17:52 (11) 19:51	18:12 (11) 20:35
31	07:11 17:12	23 17:24 (12)	17:01 (12) 17:24 (12)	05:49 18:18	17:52 (11) 19:51	18:12 (11) 20:35
Potential sun hours	297	297	369	399	449	453
Total, worst case	67	160	761	271		

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: M - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (13)

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	05:28 20:34	05:52 20:15	06:23 19:32	18:09 (11) 18:21 (11)	06:53 18:41	07:13 (14) 16:55	07:03 16:30	
2	05:29 20:34	05:53 20:14	06:24 19:31	18:08 (11) 18:23 (11)	06:54 18:40	07:15 (14) 16:53	07:04 16:30	
3	05:29 20:34	05:54 20:13	06:25 19:29	18:08 (11) 18:24 (11)	06:55 18:38	07:16 (14) 16:52	07:05 16:29	
4	05:30 20:34	05:55 20:12	06:26 19:27	18:07 (11) 18:26 (11)	06:57 18:36	07:17 (14) 16:51	07:06 16:29	
5	05:30 20:34	05:56 20:11	06:27 19:26	18:06 (11) 18:27 (11)	06:58 18:35	07:18 (14) 16:50	07:07 16:29	
6	05:31 20:34	05:57 20:10	06:28 19:24	18:06 (11) 18:29 (11)	06:59 18:33	07:19 (14) 16:49	07:08 16:29	07:43 (15) 07:49 (15)
7	05:32 20:33	05:58 20:08	06:29 19:22	18:06 (11) 18:30 (11)	07:00 18:31	07:20 (14) 16:47	07:09 16:29	07:42 (15) 07:51 (15)
8	05:32 20:33	05:59 20:07	06:30 19:21	18:06 (11) 18:32 (11)	07:01 18:30	07:21 (14) 16:46	07:10 16:29	07:41 (15) 07:51 (15)
9	05:33 20:33	06:00 20:06	06:31 19:19	18:05 (11) 18:33 (11)	07:02 18:28	07:22 (14) 16:45	07:11 16:29	07:40 (15) 07:53 (15)
10	05:34 20:32	06:01 20:05	06:32 19:17	18:05 (11) 18:34 (11)	07:03 18:27	07:23 (14) 16:44	07:11 16:29	07:40 (15) 07:41 (15)
11	05:34 20:32	06:02 20:03	06:33 19:15	18:05 (11) 18:36 (11)	07:04 18:25	07:24 (14) 16:43	07:12 16:29	07:41 (15) 07:55 (15)
12	05:35 20:31	06:03 20:02	06:34 19:14	18:06 (11) 18:37 (11)	07:05 18:23	17:35 (12) 16:42	07:13 16:29	07:41 (15) 07:56 (15)
13	05:36 20:31	06:04 20:01	06:35 19:12	18:06 (11) 18:39 (11)	07:06 18:22	17:35 (12) 16:41	07:14 16:29	07:41 (15) 07:57 (15)
14	05:36 20:30	06:05 19:59	06:36 19:10	18:06 (11) 18:40 (11)	07:07 18:20	17:34 (12) 16:40	07:15 16:29	07:40 (15) 07:57 (15)
15	05:37 20:30	06:06 19:58	06:37 19:09	18:06 (11) 18:40 (11)	07:08 18:19	17:34 (12) 16:40	07:15 16:30	07:41 (15) 07:58 (15)
16	05:38 20:29	06:07 19:57	06:38 19:07	18:07 (11) 18:42 (11)	07:09 18:17	17:33 (12) 16:39	07:16 16:30	07:42 (15) 07:59 (15)
17	05:39 20:28	06:08 19:55	06:39 19:05	18:08 (11) 18:43 (11)	07:11 18:16	17:33 (12) 16:38	07:17 16:30	07:41 (15) 07:59 (15)
18	05:40 20:28	06:09 19:54	06:40 19:04	18:09 (11) 18:41 (11)	07:12 18:14	17:33 (12) 16:37	07:18 16:30	07:42 (15) 08:00 (15)
19	05:40 20:27	06:10 19:52	06:41 19:02	18:10 (11) 18:39 (11)	07:13 18:12	17:33 (12) 16:36	07:18 16:31	07:43 (15) 08:01 (15)
20	05:41 20:26	06:11 19:51	06:42 19:00	18:12 (11) 18:37 (11)	07:14 18:11	17:35 (12) 16:36	07:19 16:31	07:43 (15) 08:01 (15)
21	05:42 20:26	06:12 19:49	06:43 18:58	18:15 (11) 18:34 (11)	07:15 18:10	17:36 (12) 16:35	07:19 16:32	07:43 (15) 08:02 (15)
22	05:43 20:25	06:13 19:48	06:44 18:57	18:15 (11) 18:28 (11)	07:16 18:08	17:37 (12) 16:34	07:20 16:32	07:43 (15) 08:02 (15)
23	05:44 20:24	06:14 19:46	06:45 18:55	18:18 (14) 18:34 (14)	07:17 18:07	17:40 (12) 16:34	07:20 16:33	07:45 (15) 08:03 (15)
24	05:45 20:23	06:15 19:45	06:46 18:53	18:16 (14) 18:36 (14)	07:18 18:05	17:43 (12) 16:33	07:21 16:33	07:45 (15) 08:03 (15)
25	05:46 20:22	06:16 19:43	06:47 18:52	18:14 (14) 18:37 (14)	06:20 17:04	16:32 16:33	07:21 16:34	07:45 (15) 08:03 (15)
26	05:47 20:21	06:17 19:42	06:48 18:50	18:12 (14) 18:38 (14)	06:21 17:02	16:32 16:34	07:22 16:34	07:46 (15) 08:04 (15)
27	05:48 20:20	06:18 19:40	06:49 18:48	18:11 (14) 18:39 (14)	06:22 17:01	16:32 16:35	07:22 16:35	07:46 (15) 08:04 (15)
28	05:48 20:20	06:19 19:39	18:13 (11) 18:16 (11)	06:50 18:46	06:23 17:00	07:00 16:31	07:22 16:36	07:47 (15) 08:04 (15)
29	05:49 20:19	06:20 19:37	18:12 (11) 18:17 (11)	06:51 18:45	06:24 16:58	07:01 16:31	07:23 16:36	07:47 (15) 08:04 (15)
30	05:50 20:18	06:21 19:35	18:11 (11) 18:19 (11)	06:52 18:43	06:25 17:00	07:02 16:30	07:23 16:37	07:49 (15) 08:05 (15)
31	05:51 20:16	06:22 19:34	18:10 (11) 18:20 (11)	06:53 18:43	06:27 16:56	07:03 16:30	07:23 16:38	07:49 (15) 08:05 (15)
Potential sun hours	459	428	375	345	298	287	414	
Total, worst case		26	765	427				

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: N - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (14)

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	07:23 16:39	07:10 17:13	06:34 17:48	16:42 (13) 17:20 (13)	06:43 19:22	07:24 (14) 08:30 (14)	05:57 19:54	6	08:08 (14) 08:14 (14)	05:28 20:23
2	07:23 16:40	07:09 17:15	06:32 17:49	16:42 (13) 17:19 (13)	06:41 19:23	07:27 (14) 08:31 (14)	05:55 19:55	3	08:10 (14) 08:13 (14)	05:27 20:24
3	07:23 16:41	07:08 17:16	06:31 17:50	16:43 (13) 17:19 (13)	06:39 19:24	07:28 (14) 08:31 (14)	05:54 19:56	1	08:11 (14) 08:12 (14)	05:27 20:25
4	07:23 16:42	07:07 17:17	06:29 17:51	16:43 (13) 17:18 (13)	06:38 19:25	07:29 (14) 08:30 (14)	05:53 19:57			05:26 20:26
5	07:24 16:42	07:06 17:18	06:27 17:52	16:43 (13) 17:16 (13)	06:36 19:26	07:31 (14) 08:31 (14)	05:52 19:58			05:26 20:26
6	07:23 16:43	07:05 17:20	06:26 17:53	16:45 (13) 17:15 (13)	06:34 19:27	07:32 (14) 08:31 (14)	05:50 19:59			05:26 20:27
7	07:23 16:44	07:04 17:21	06:24 17:54	16:46 (13) 17:13 (13)	06:33 19:28	07:33 (14) 08:30 (14)	05:49 20:00			05:26 20:28
8	07:23 16:45	07:02 17:22	06:23 17:56	16:47 (13) 17:11 (13)	06:31 19:29	07:35 (14) 08:30 (14)	05:48 20:01			05:25 20:28
9	07:23 16:46	07:01 17:23	06:21 17:57	16:50 (13) 17:09 (13)	06:30 19:30	07:36 (14) 08:30 (14)	05:47 20:02			05:25 20:29
10	07:23 16:47	07:00 17:25	06:19 17:58	16:53 (13) 17:04 (13)	06:28 19:31	07:38 (14) 08:30 (14)	05:46 20:03			05:25 20:29
11	07:23 16:48	06:59 17:26	06:18 17:59		06:26 19:32	07:39 (14) 08:29 (14)	05:45 20:04			05:25 20:30
12	07:22 16:50	06:58 17:27	16:58 (13) 17:04 (13)	06:16 18:00	06:25 19:34	07:40 (14) 08:29 (14)	05:44 20:05			05:25 20:30
13	07:22 16:51	06:56 17:28	16:54 (13) 17:06 (13)	06:15 18:01	06:23 19:35	07:42 (14) 08:29 (14)	05:43 20:06			05:24 20:31
14	07:22 16:52	06:55 17:30	16:52 (13) 17:07 (13)	06:13 18:02	06:22 19:36	07:43 (14) 08:28 (14)	05:41 20:07			05:24 20:31
15	07:21 16:53	06:54 17:31	16:49 (13) 17:08 (13)	06:11 18:03	06:20 19:37	07:45 (14) 08:28 (14)	05:40 20:08			05:24 20:32
16	07:21 16:54	06:52 17:32	16:48 (13) 17:10 (13)	06:10 18:05	06:18 19:38	07:46 (14) 08:27 (14)	05:39 20:09			05:24 20:32
17	07:21 16:55	06:51 17:33	16:46 (13) 17:10 (13)	06:08 18:06	06:17 19:39	07:48 (14) 08:27 (14)	05:39 20:10			05:24 20:33
18	07:20 16:56	06:50 17:34	16:45 (13) 17:12 (13)	06:06 18:07	06:15 19:40	07:49 (14) 08:25 (14)	05:38 20:11			05:24 20:33
19	07:20 16:57	06:48 17:36	16:45 (13) 17:14 (13)	06:05 18:08	06:14 19:41	07:51 (14) 08:25 (14)	05:37 20:12			05:25 20:33
20	07:19 16:59	06:47 17:37	16:43 (13) 17:15 (13)	06:03 18:09	06:12 19:42	07:52 (14) 08:24 (14)	05:36 20:13			05:25 20:34
21	07:18 17:00	06:46 17:38	16:43 (13) 17:16 (13)	06:01 18:10	06:11 19:43	07:54 (14) 08:24 (14)	05:35 20:14			05:25 20:34
22	07:18 17:01	06:44 17:39	16:42 (13) 17:17 (13)	06:00 18:11	06:09 19:44	07:55 (14) 08:22 (14)	05:34 20:15			05:25 20:34
23	07:17 17:02	06:43 17:40	16:42 (13) 17:19 (13)	05:58 18:12	06:08 19:45	07:57 (14) 08:22 (14)	05:33 20:16			05:25 20:34
24	07:16 17:03	06:41 17:42	16:41 (13) 17:20 (13)	05:56 18:13	06:06 19:46	07:58 (14) 08:20 (14)	05:33 20:17			05:26 20:34
25	07:16 17:05	06:40 17:43	16:41 (13) 17:21 (13)	05:54 18:14	06:05 19:47	08:00 (14) 08:20 (14)	05:32 20:18			05:26 20:34
26	07:15 17:06	06:38 17:44	16:41 (13) 17:21 (13)	05:53 18:15	06:04 19:48	08:01 (14) 08:19 (14)	05:31 20:19			05:26 20:35
27	07:14 17:07	06:37 17:45	16:41 (13) 17:21 (13)	05:51 18:16	06:02 19:50	08:02 (14) 08:18 (14)	05:31 20:19			05:27 20:35
28	07:13 17:08	06:35 17:46	16:41 (13) 17:20 (13)	05:49 18:18	06:01 19:51	08:04 (14) 08:17 (14)	05:30 20:20			05:27 20:35
29	07:13 17:10		06:48 19:19	07:20 (14) 08:29 (14)	05:59 19:52	08:06 (14) 08:16 (14)	05:29 20:21			05:27 20:35
30	07:12 17:11		06:46 19:20	07:22 (14) 08:30 (14)	05:58 19:53	08:06 (14) 08:14 (14)	05:29 20:22			05:28 20:35
31	07:11 17:12		06:44 19:21	07:23 (14) 08:30 (14)			05:28 20:23			
Potential sun hours	297	297	369	399	449	453				
Total, worst case		489	1291	1196	786	453		10		

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: N - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (14)

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	05:28 20:34	05:52 20:15	06:23 19:32	07:38 (14) 18:41	06:53	06:28 07:03
2	05:29 20:34	05:53 20:14	06:24 19:30	07:36 (14) 18:40	06:54	06:29 16:30
3	05:29 20:34	05:54 20:13	06:25 19:29	07:34 (14) 18:38	06:55	17:35 (13) 16:30
4	05:30 20:34	05:55 20:12	06:26 19:27	07:32 (14) 18:36	06:56	17:29 (13) 16:51
5	05:30 20:34	05:56 20:11	06:27 19:26	07:30 (14) 18:35	06:58	17:26 (13) 16:50
6	05:31 20:33	05:57 20:10	06:28 19:24	07:28 (14) 18:33	06:59	17:23 (13) 16:49
7	05:32 20:33	05:58 20:08	06:29 19:22	07:26 (14) 18:31	07:00	17:21 (13) 16:47
8	05:32 20:33	05:59 20:07	06:30 19:21	07:24 (14) 18:30	07:01	17:20 (13) 16:46
9	05:33 20:33	06:00 20:06	06:31 19:19	07:22 (14) 18:28	07:02	17:18 (13) 16:45
10	05:33 20:32	06:01 20:05	06:32 19:17	07:20 (14) 18:26	07:03	17:17 (13) 16:44
11	05:34 20:32	06:02 20:03	08:20 (14) 06:33	07:18 (14) 18:25	07:04	17:16 (13) 16:43
12	05:35 20:31	06:03 20:02	08:21 (14) 06:34	07:16 (14) 18:23	07:05	17:15 (13) 16:42
13	05:36 20:31	06:04 20:01	08:18 (14) 06:35	07:14 (14) 18:22	07:06	17:14 (13) 16:41
14	05:36 20:30	06:05 19:59	08:22 (14) 06:36	07:11 (14) 18:20	07:07	17:13 (13) 16:40
15	05:37 20:30	06:06 19:58	08:15 (14) 06:37	07:08 (14) 18:19	07:08	17:12 (13) 16:40
16	05:38 20:29	06:07 19:57	08:23 (14) 06:38	07:06 (14) 18:17	07:09	17:11 (13) 16:39
17	05:39 20:28	06:08 19:55	08:24 (14) 06:39	07:04 (14) 18:15	07:10	17:10 (13) 16:38
18	05:40 20:28	06:09 19:54	08:26 (14) 06:40	07:02 (14) 18:14	07:12	17:09 (13) 16:37
19	05:40 20:27	06:10 19:52	08:27 (14) 06:41	07:00 (14) 18:12	07:13	17:08 (13) 16:36
20	05:41 20:26	06:11 19:51	08:04 (14) 06:42	07:03 (14) 18:11	07:14	17:07 (13) 16:35
21	05:42 20:26	06:12 19:49	08:28 (14) 06:43	07:01 (14) 18:09	07:15	17:06 (13) 16:34
22	05:43 20:25	06:13 19:48	08:27 (14) 06:44	07:00 (14) 18:08	07:16	17:05 (13) 16:33
23	05:44 20:24	06:14 19:46	08:08 (14) 06:45	07:08 (14) 18:07	07:17	17:04 (13) 16:32
24	05:45 20:23	06:15 19:45	08:28 (14) 06:46	07:06 (14) 18:05	07:18	17:03 (13) 16:31
25	05:46 20:22	06:16 19:43	08:28 (14) 06:47	07:04 (14) 18:04	07:19	17:02 (13) 16:30
26	05:47 20:21	06:17 19:42	08:00 (14) 06:48	07:02 (14) 18:03	07:20	17:01 (13) 16:29
27	05:47 20:20	06:18 19:40	08:27 (14) 06:49	07:00 (14) 18:02	07:21	17:00 (13) 16:28
28	05:48 20:19	06:19 19:39	07:58 (14) 06:50	07:08 (14) 18:01	07:22	17:00 (13) 16:27
29	05:49 20:18	06:20 19:37	08:29 (14) 06:51	07:06 (14) 18:00	07:23	17:00 (13) 16:26
30	05:50 20:17	06:21 19:35	07:46 (14) 06:52	07:26 (14) 18:00	07:24	17:00 (13) 16:25
31	05:51 20:16	06:22 19:34	08:29 (14) 06:53	07:42 (14) 18:00	07:25	17:00 (13) 16:24
Potential sun hours	459	428	375	345	298	287
Total, worst case		569	1669	785		

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: 0 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (15)

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	07:23	13:40 (14)	07:10	16:39 (13)	06:34	06:43	05:57	05:28
	16:39	48 14:28 (14)	17:13	11 16:50 (13)	17:48	19:22	19:54	20:23
2	07:23	13:41 (14)	07:09	16:39 (13)	06:32	06:41	05:55	05:27
	16:40	47 14:28 (14)	17:15	12 16:51 (13)	17:49	19:23	19:55	20:24
3	07:23	13:43 (14)	07:08	16:39 (13)	06:31	06:39	05:54	05:27
	16:41	44 14:27 (14)	17:16	13 16:52 (13)	17:50	19:24	19:56	20:25
4	07:23	13:44 (14)	07:07	16:39 (13)	06:29	06:38	05:53	05:26
	16:42	43 14:27 (14)	17:17	15 16:54 (13)	17:51	19:25	19:57	20:26
5	07:23	13:46 (14)	07:06	16:39 (13)	06:27	06:36	05:52	05:26
	16:42	41 14:27 (14)	17:18	16 16:55 (13)	17:52	19:26	19:58	20:26
6	07:23	13:47 (14)	07:05	16:38 (13)	06:26	06:34	05:50	05:26
	16:43	39 14:26 (14)	17:20	18 16:56 (13)	17:53	19:27	19:59	20:27
7	07:23	13:48 (14)	07:03	16:39 (13)	06:24	06:33	05:49	05:25
	16:44	37 14:25 (14)	17:21	18 16:57 (13)	17:54	19:28	20:00	20:28
8	07:23	13:50 (14)	07:02	16:39 (13)	06:23	06:31	05:48	05:25
	16:45	34 14:24 (14)	17:22	20 16:59 (13)	17:56	19:29	20:01	20:28
9	07:23	13:53 (14)	07:01	16:40 (13)	06:21	06:30	05:47	05:25
	16:46	30 14:23 (14)	17:23	20 17:00 (13)	17:57	19:30	20:02	20:29
10	07:23	13:55 (14)	07:00	16:41 (13)	06:19	06:28	05:46	05:25
	16:47	27 14:22 (14)	17:25	20 17:01 (13)	17:58	19:31	20:03	20:29
11	07:23	13:58 (14)	06:59	16:41 (13)	06:18	06:26	05:45	05:25
	16:48	22 14:20 (14)	17:26	18 16:59 (13)	17:59	19:32	20:04	20:30
12	07:22	14:02 (14)	06:58	16:43 (13)	06:16	06:25	05:44	05:24
	16:49	15 14:17 (14)	17:27	15 16:58 (13)	18:00	19:34	20:05	20:30
13	07:22		06:56	16:45 (13)	06:14	06:23	05:42	05:24
	16:51		17:28	11 16:56 (13)	18:01	19:35	20:06	20:31
14	07:22		06:55	16:51 (13)	06:13	06:22	05:41	05:24
	16:52		17:30	1 16:52 (13)	18:02	19:36	20:07	20:31
15	07:21		06:54		06:11	06:20	05:40	05:24
	16:53		17:31		18:03	19:37	20:08	20:32
16	07:21		06:52		06:10	06:18	05:39	05:24
	16:54		17:32		18:04	19:38	20:09	20:32
17	07:21		06:51		06:08	06:17	05:38	05:24
	16:55		17:33		18:06	19:39	20:10	20:33
18	07:20		06:50		06:06	06:15	05:38	05:24
	16:56		17:34		18:07	19:40	20:11	20:33
19	07:20		06:48		06:05	06:14	05:37	05:25
	16:57		17:36		18:08	19:41	20:12	20:33
20	07:19		06:47		06:03	06:12	05:36	05:25
	16:59		17:37		18:09	19:42	20:13	20:34
21	07:18		06:46		06:01	06:11	05:35	05:25
	17:00		17:38		18:10	19:43	20:14	20:34
22	07:18		06:44		05:59	06:09	05:34	05:25
	17:01		17:39		18:11	19:44	20:15	20:34
23	07:17		06:43		05:58	06:08	05:33	05:25
	17:02		17:40		18:12	19:45	20:16	20:34
24	07:16		06:41		05:56	06:06	05:33	05:26
	17:03		17:42		18:13	19:46	20:17	20:34
25	07:16		06:40		05:54	06:05	05:32	05:26
	17:05		17:43		18:14	19:47	20:18	20:34
26	07:15		06:38		05:53	06:04	05:31	05:26
	17:06		17:44		18:15	19:48	20:19	20:34
27	07:14		06:37		05:51	06:02	05:31	05:26
	17:07		17:45		18:16	19:50	20:19	20:35
28	07:13	16:43 (13)	06:35		05:49	06:01	05:30	05:27
	17:08	1 16:44 (13)	17:46		18:17	19:51	20:20	20:35
29	07:12	16:42 (13)			06:48	05:59	05:29	05:27
	17:10	4 16:46 (13)			19:19	19:52	20:21	20:35
30	07:12	16:41 (13)			06:46	05:58	05:29	05:28
	17:11	6 16:47 (13)			19:20	19:53	20:22	20:35
31	07:11	16:40 (13)			06:44		05:28	
	17:12	8 16:48 (13)			19:21		20:23	
Potential sun hours	297		297		369	399	449	453
Total, worst case	446		208					

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: 0 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (15)

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	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	16:10 (13) 07:03 16:30 (13) 16:30 (14)
2	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	20 16:30 (13) 07:04 16:30 (13) 16:30 (14)
3	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	20 16:30 (13) 07:05 16:29 (13) 16:29 (14)
4	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	19 16:09 (13) 07:06 16:27 (13) 16:29 (14)
5	05:30 20:34	05:56 20:11	06:27 19:25	06:57 18:35	06:32 16:50	17 16:08 (13) 07:07 16:25 (13) 16:29 (14)
6	05:31 20:33	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	17 16:09 (13) 07:08 16:25 (13) 16:29 (14)
7	05:31 20:33	05:58 20:08	06:29 19:22	07:00 18:31	06:35 16:47	16 16:09 (13) 07:09 16:23 (13) 16:29 (14)
8	05:32 20:33	05:59 20:07	06:30 19:20	07:01 18:30	06:36 16:46	16 16:09 (13) 07:10 16:22 (13) 16:29 (14)
9	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	14 16:10 (13) 07:11 16:22 (13) 16:29 (14)
10	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:26	06:38 16:44	10 16:10 (13) 07:11 16:20 (13) 16:29 (14)
11	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	10 16:11 (13) 07:12 16:19 (13) 16:29 (14)
12	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	8 16:12 (13) 07:13 16:18 (13) 16:29 (14)
13	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	3 16:14 (13) 07:14 16:17 (13) 16:29 (14)
14	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	1 16:15 (13) 07:15 16:16 (13) 16:29 (14)
15	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:44 16:39	50 07:15 16:29 07:15 14:21 (14)
16	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	51 07:16 16:30 16:39 14:22 (14)
17	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	52 07:17 16:30 16:38 14:22 (14)
18	05:40 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	52 07:17 16:30 06:48 14:23 (14)
19	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	53 07:18 16:31 06:49 14:24 (14)
20	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:36	53 07:19 16:31 06:50 14:24 (14)
21	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	53 07:19 16:32 06:52 14:25 (14)
22	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	53 07:20 16:32 06:53 14:25 (14)
23	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	53 07:20 16:33 06:54 14:26 (14)
24	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	53 07:21 16:33 06:55 14:26 (14)
25	05:46 20:22	06:16 19:43	06:47 18:51	07:20 17:04	06:56 16:32	52 07:21 16:34 06:56 14:26 (14)
26	05:47 20:21	06:17 19:42	06:48 18:50	07:21 17:02	06:57 16:32	52 07:22 16:34 06:57 14:27 (14)
27	05:47 20:20	06:18 19:40	06:49 18:48	07:22 17:01	06:58 16:31	52 07:22 16:35 06:58 14:27 (14)
28	05:48 20:19	06:19 19:38	06:50 18:46	07:23 17:00	07:00 16:31	6 16:17 (13) 07:22 16:23 (13) 16:31
29	05:49 20:18	06:20 19:37	06:51 18:45	07:24 16:58	07:01 16:31	12 16:15 (13) 07:23 16:27 (13) 16:31
30	05:50 20:17	06:21 19:35	06:52 18:43	07:25 16:57	07:02 16:30	15 16:13 (13) 07:23 16:28 (13) 16:30
31	05:51 20:16	06:22 19:34	06:53 18:42	07:26 16:56	16:30 16:29 (13)	15 13:43 (14) 07:23 13:58 (14) 16:37
Potential sun hours	459	428	375	345	298	287
Total, worst case				51	192	1437

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

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

Shadow receptor: P - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (16)
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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	07:24 (2) 18:43 (1)	05:57 19:54	05:28 20:24	05:52 20:35	06:23 19:32	07:38 (2) 18:21 (1)	06:53 18:41	06:28 16:55	07:03 16:30
2	07:24 16:40	07:09 17:15	06:32 17:49	06:41 19:23	07:26 (2) 18:41 (1)	05:56 19:55	05:27 20:24	05:53 20:35	06:24 19:31	07:36 (2) 18:23 (1)	06:55 18:40	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	06:40 19:24	07:28 (2) 18:39 (1)	05:54 19:56	05:27 20:25	05:54 20:34	06:25 19:29	07:34 (2) 18:24 (1)	06:56 18:38	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	06:38 19:25	07:29 (2) 18:36 (1)	05:53 19:57	05:27 20:26	05:55 20:34	06:26 19:27	07:32 (2) 18:26 (1)	06:57 18:36	06:31 16:51	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	06:36 19:26	07:31 (2) 18:35 (1)	05:52 19:58	05:26 20:27	05:56 20:34	06:27 19:26	07:30 (2) 18:27 (1)	06:58 18:35	06:33 16:50	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	06:35 19:27	07:32 (2) 18:33 (1)	05:51 19:59	05:26 20:27	05:57 20:34	06:28 19:24	07:28 (2) 18:29 (1)	06:59 18:33	06:34 16:49	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	06:33 19:28	07:33 (2) 18:30 (1)	05:49 20:00	05:26 20:28	05:58 20:33	06:29 19:22	07:26 (2) 18:30 (1)	07:00 18:31	06:35 16:48	07:09 16:29
8	07:23 16:45	07:03 17:22	06:23 17:56	06:31 19:29	07:35 (2) 18:29 (1)	05:48 20:01	05:25 20:28	05:59 20:33	06:30 19:21	07:24 (2) 18:31 (1)	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	07:36 (2) 18:26 (1)	05:47 20:02	05:25 20:29	06:00 20:33	06:31 19:19	07:22 (2) 18:33 (1)	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:20 17:58	06:28 19:32	07:38 (2) 18:25 (1)	05:46 20:03	05:25 20:30	06:01 20:32	06:32 19:17	07:20 (2) 18:34 (1)	07:03 18:27	06:39 16:44	07:12 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	06:26 19:33	07:39 (2) 18:22 (1)	05:45 20:04	05:25 20:30	06:02 20:32	06:33 19:16	07:18 (2) 18:36 (1)	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	06:25 19:34	07:40 (2) 18:20 (1)	05:44 20:05	05:25 20:31	06:03 20:31	06:34 19:14	07:16 (2) 18:37 (1)	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:57 17:28	06:15 18:01	06:23 19:35	07:42 (2) 18:01 (2)	05:43 20:06	05:24 20:31	06:04 20:31	06:35 19:12	07:13 (2) 18:39 (1)	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	07:43 (2) 18:01 (2)	05:42 20:07	05:24 20:32	06:05 20:30	06:36 19:10	07:11 (2) 18:40 (1)	07:07 18:20	06:43 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:04	06:20 19:37	07:45 (2) 18:02 (2)	05:41 20:08	05:24 20:32	06:06 20:30	06:37 19:09	07:09 (2) 18:41 (1)	07:08 18:19	06:45 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	06:19 19:38	07:46 (2) 18:01 (2)	05:40 20:09	05:24 20:32	06:07 20:29	06:38 19:07	07:08 (2) 18:43 (1)	07:10 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	07:48 (2) 18:02 (2)	05:39 20:10	05:24 20:33	06:08 20:29	06:39 19:05	07:07 (2) 18:44 (1)	07:11 18:16	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	06:15 19:40	07:49 (2) 17:46 (1)	05:38 20:11	05:25 20:33	06:09 20:28	06:40 19:54	07:06 (2) 18:41 (1)	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:49 17:36	06:05 18:08	06:14 19:41	07:51 (2) 17:47 (1)	05:37 20:12	05:25 20:33	06:10 20:27	06:41 19:52	08:04 (2) 18:07 (2)	07:13 18:13	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	07:52 (2) 17:48 (1)	05:36 20:13	05:25 20:34	06:11 20:27	06:42 19:51	08:02 (2) 18:07 (2)	07:14 18:11	06:51 16:36	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	07:54 (2) 17:49 (1)	05:35 20:14	05:25 20:34	06:12 20:26	06:43 19:49	08:00 (2) 18:07 (2)	07:15 18:10	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	07:55 (2) 17:50 (1)	05:34 20:15	05:25 20:34	06:13 20:25	06:44 19:48	07:59 (2) 18:07 (2)	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	07:57 (2) 17:52 (1)	05:33 20:16	05:25 20:34	06:14 20:24	06:45 19:46	08:06 (2) 18:55 (2)	07:17 18:07	06:54 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	06:07 19:47	07:59 (2) 17:52 (1)	05:33 20:17	05:26 20:35	06:15 20:23	06:46 19:45	08:05 (2) 18:53 (2)	07:19 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:48	07:59 (2) 17:53 (1)	05:32 20:18	05:26 20:35	06:16 20:22	06:47 19:43	08:04 (2) 18:52 (2)	07:20 18:13 (1)	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	08:01 (2) 17:54 (1)	05:31 20:19	05:26 20:35	06:17 20:22	06:48 19:42	08:04 (2) 18:50 (2)	07:21 18:14	06:58 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	06:02 19:50	08:02 (2) 17:54 (1)	05:31 20:20	05:27 20:35	06:18 20:21	06:49 19:40	08:03 (2) 18:46 (2)	07:22 18:48	06:59 17:01	07:22 16:35
28	07:14 17:08	06:35 17:46	05:50 18:18	06:01 19:51	08:03 (2) 17:51 (1)	05:30 20:20	05:27 20:35	06:19 20:20	06:50 19:39	08:04 (2) 18:47 (2)	07:23 18:47	07:00 16:31	07:22 16:36
29	07:13 17:10	06:34 17:47	05:48 18:19	06:00 19:52	08:04 (2) 17:49 (1)	05:29 20:21	05:27 20:35	06:20 20:19	06:51 19:37	08:05 (2) 18:48 (2)	07:24 18:45	07:01 16:31	07:23 16:36
30	07:12 17:11	06:33 17:48	05:46 18:20	05:58 19:53	08:05 (2) 17:48 (1)	05:28 20:22	05:28 20:35	06:21 20:18	06:52 19:35	08:06 (2) 18:49 (2)	07:25 18:43	07:02 16:57	07:23 16:37
31	07:11 17:12	06:32 17:49	05:45 18:21	05:57 19:54	08:06 (2) 17:47 (1)	05:27 20:23	05:28 20:35	06:22 20:17	06:53 19:34	08:07 (2) 18:50 (1)	07:26 18:44	07:03 16:56	07:23 16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287	
Total, worst case			527	646				163	1028				

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: Q - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (17)
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	07:23 16:39 80	14:53 (3) 07:10 127	07:30 (4) 16:36 (3)	06:34 17:48 142	07:09 (4) 16:29 (3)	05:57 19:54 20:24
2	07:24 16:40 81	14:53 (3) 07:09 130	07:29 (4) 16:36 (3)	06:32 17:49 137	07:09 (4) 16:27 (3)	05:55 19:55 20:24
3	07:24 16:41 81	14:53 (3) 07:08 133	07:28 (4) 16:36 (3)	06:31 17:50 134	07:10 (4) 16:27 (3)	05:54 19:56 20:25
4	07:24 16:42 82	14:53 (3) 07:07 137	07:27 (4) 16:37 (3)	06:29 17:51 130	07:10 (4) 16:25 (3)	05:53 19:57 20:26
5	07:24 16:42 83	14:53 (3) 07:06 139	07:26 (4) 16:37 (3)	06:28 17:52 123	07:11 (4) 16:23 (3)	05:52 19:58 20:26
6	07:24 16:43 84	14:53 (3) 07:05 143	07:25 (4) 16:38 (3)	06:26 17:53 118	07:12 (4) 16:22 (3)	05:50 19:59 20:27
7	07:24 16:44 85	14:53 (3) 07:04 144	07:24 (4) 16:37 (3)	06:24 17:54 112	07:13 (4) 16:20 (3)	05:49 20:00 20:28
8	07:23 16:45 86	14:52 (3) 07:02 146	07:22 (4) 16:37 (3)	06:23 17:56 106	07:15 (4) 16:19 (3)	05:48 20:01 20:28
9	07:23 16:46 86	14:53 (3) 07:01 150	07:21 (4) 16:38 (3)	06:21 17:57 99	07:16 (4) 16:17 (3)	05:47 20:02 20:29
10	07:23 16:47 87	14:53 (3) 07:00 151	07:20 (4) 16:38 (3)	06:19 17:58 89	07:18 (4) 16:14 (3)	05:46 20:03 20:30
11	07:23 16:48 89	14:53 (3) 06:59 153	07:19 (4) 16:38 (3)	06:18 17:59 78	07:21 (4) 16:12 (3)	05:45 20:04 20:30
12	07:23 16:49 90	14:52 (3) 06:58 154	07:17 (4) 16:37 (3)	06:16 18:00 66	07:24 (4) 16:09 (3)	05:44 20:05 20:31
13	07:22 16:51 90	14:53 (3) 06:56 156	07:16 (5) 16:37 (3)	06:15 18:01 41	15:25 (3) 16:06 (3)	05:42 19:35 20:06
14	07:22 16:52 91	14:52 (3) 06:54 158	07:15 (5) 16:38 (3)	06:13 18:02 34	15:29 (3) 16:03 (3)	05:41 20:07 20:32
15	07:22 16:53 93	14:52 (3) 06:54 158	07:13 (5) 16:37 (3)	06:11 18:03 25	15:33 (3) 15:58 (3)	05:40 20:08 20:32
16	07:21 16:54 93	14:52 (3) 06:53 160	07:12 (5) 16:37 (3)	06:10 18:05 5	15:43 (3) 15:48 (3)	05:39 19:38 20:09
17	07:21 16:55 94	14:52 (3) 06:51 161	07:11 (5) 16:37 (3)	06:08 18:06	06:17 19:39	05:39 20:10 20:33
18	07:20 16:56 95	14:52 (3) 06:50 161	07:09 (5) 16:36 (3)	06:06 18:07	06:15 19:40	05:38 20:11 20:33
19	07:20 16:57 96	14:52 (3) 06:48 162	07:08 (5) 16:36 (3)	06:05 18:08	06:14 19:41	05:37 20:12 20:33
20	07:19 16:59 96	14:52 (3) 06:47 162	07:06 (5) 16:35 (3)	06:03 18:09	06:12 19:42	05:36 20:13 20:34
21	07:19 17:00 98	14:51 (3) 06:46 162	07:05 (5) 16:35 (3)	06:01 18:10	06:11 19:43	05:35 20:14 20:34
22	07:18 17:01 98	14:52 (3) 06:44 163	07:03 (5) 16:34 (3)	06:00 18:11	06:09 19:44	05:34 20:15 20:34
23	07:17 17:02 100	14:51 (3) 06:43 163	07:02 (5) 16:34 (3)	05:58 18:12	06:08 19:45	05:33 20:16 20:34
24	07:17 17:03 100	14:51 (3) 06:41 162	07:00 (5) 16:33 (3)	05:56 18:13	06:06 19:46	05:33 20:17 20:34
25	07:16 17:05 100	14:51 (3) 06:40 157	07:03 (5) 16:32 (3)	05:55 18:14	06:05 19:48	05:32 20:18 20:35
26	07:15 17:06 102	14:51 (3) 06:38 151	07:07 (4) 16:31 (3)	05:53 18:15	06:04 19:49	05:31 20:19 20:35
27	07:14 17:07 102	14:51 (3) 06:37 148	07:08 (4) 16:31 (3)	05:51 18:17	06:02 19:50	05:31 20:20 20:35
28	07:14 17:08 103	14:51 (3) 06:35 145	07:08 (4) 16:29 (3)	05:49 18:18	06:01 19:51	05:30 20:20 20:35
29	07:13 17:10 110	07:33 (4) 16:34 (3)		06:48 19:19	05:59 19:52	05:29 20:21 20:35
30	07:12 17:11 118	07:32 (4) 16:35 (3)		06:46 19:20	05:58 19:53	05:29 20:22 20:35
31	07:11 17:12 122	07:31 (4) 16:35 (3)		06:44 19:21		05:28 20:23
Potential sun hours	297	297	369	399	449	453
Total, worst case	2915	4236	1439			

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: Q - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (17)

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	05:28	05:52	06:23	06:53	08:06 (4)	06:28	06:49 (4)	07:03	14:35 (3)	
	20:35	20:15	19:32	18:41	16:48 (3)	16:55	16:07 (3)	16:30	89	16:04 (3)
2	05:29	05:53	06:24	06:54	08:01 (4)	06:29	06:51 (4)	07:04	14:36 (3)	
	20:34	20:14	19:31	18:40	16:50 (3)	16:53	16:07 (3)	16:30	88	16:04 (3)
3	05:29	05:54	06:25	06:55	07:57 (4)	06:30	06:52 (4)	07:05	14:37 (3)	
	20:34	20:13	19:29	18:38	16:52 (3)	16:52	16:07 (3)	16:29	86	16:03 (3)
4	05:30	05:55	06:26	06:57	07:55 (4)	06:31	06:53 (4)	07:06	14:37 (3)	
	20:34	20:12	19:27	18:36	16:53 (3)	16:51	16:07 (3)	16:29	86	16:03 (3)
5	05:30	05:56	06:27	06:58	07:52 (4)	06:33	06:55 (4)	07:07	14:38 (3)	
	20:34	20:11	19:26	18:35	16:55 (3)	16:50	16:07 (3)	16:29	85	16:03 (3)
6	05:31	05:57	06:28	06:59	07:50 (4)	06:34	06:56 (4)	07:08	14:39 (3)	
	20:34	20:10	19:24	18:33	16:56 (3)	16:49	16:07 (3)	16:29	84	16:03 (3)
7	05:31	05:58	06:29	07:00	07:49 (4)	06:35	06:57 (4)	07:09	14:40 (3)	
	20:33	20:09	19:22	18:31	16:57 (3)	16:47	16:07 (3)	16:29	83	16:03 (3)
8	05:32	05:59	06:30	07:01	07:47 (4)	06:36	06:58 (4)	07:10	14:41 (3)	
	20:33	20:07	19:21	18:30	16:58 (3)	16:46	16:06 (3)	16:29	82	16:03 (3)
9	05:33	06:00	06:31	07:02	07:45 (4)	06:37	07:00 (4)	07:11	14:42 (3)	
	20:33	20:06	19:19	18:28	16:59 (3)	16:45	16:07 (3)	16:29	82	16:04 (3)
10	05:33	06:01	06:32	07:03	07:44 (4)	06:39	07:01 (4)	07:12	14:42 (3)	
	20:32	20:05	19:17	18:27	17:00 (3)	16:44	16:06 (3)	16:29	81	16:03 (3)
11	05:34	06:02	06:33	07:04	07:43 (4)	06:40	07:02 (4)	07:12	14:43 (3)	
	20:32	20:03	19:16	18:25	17:00 (3)	16:43	16:06 (3)	16:29	80	16:03 (3)
12	05:35	06:03	06:34	07:05	07:42 (4)	06:41	07:04 (4)	07:13	14:44 (3)	
	20:31	20:02	19:14	18:23	17:01 (3)	16:42	16:07 (3)	16:29	79	16:03 (3)
13	05:36	06:04	06:35	07:06	07:42 (4)	06:42	07:05 (4)	07:14	14:44 (3)	
	20:31	20:01	19:12	18:22	17:03 (3)	16:41	16:06 (3)	16:29	80	16:04 (3)
14	05:36	06:05	06:36	07:07	07:41 (4)	06:43	14:23 (3)	07:15	14:45 (3)	
	20:30	19:59	19:10	18:20	17:03 (3)	16:40	16:06 (3)	16:29	79	16:04 (3)
15	05:37	06:06	06:37	07:08	07:40 (4)	06:45	14:23 (3)	07:16	14:45 (3)	
	20:30	19:58	19:09	18:19	17:03 (3)	16:40	16:05 (3)	16:29	78	16:03 (3)
16	05:38	06:07	06:38	07:09	07:39 (4)	06:46	14:24 (3)	07:16	14:46 (3)	
	20:29	19:57	19:07	18:17	17:04 (3)	16:39	16:06 (3)	16:30	78	16:04 (3)
17	05:39	06:08	06:39	07:11	07:33 (5)	06:47	14:25 (3)	07:17	14:47 (3)	
	20:29	19:55	19:05	18:16	17:04 (3)	16:38	16:05 (3)	16:30	78	16:05 (3)
18	05:40	06:09	06:37	07:12	07:32 (5)	06:48	14:25 (3)	07:18	14:47 (3)	
	20:28	19:54	19:04	18:14	17:04 (3)	16:37	16:05 (3)	16:30	77	16:04 (3)
19	05:40	06:10	06:41	07:13	07:34 (5)	06:49	14:25 (3)	07:18	14:48 (3)	
	20:27	19:52	19:02	18:12	17:05 (3)	16:36	16:05 (3)	16:31	77	16:05 (3)
20	05:41	06:11	06:42	07:14	07:35 (5)	06:51	14:27 (3)	07:19	14:48 (3)	
	20:26	19:51	19:00	18:11	17:06 (3)	16:36	16:05 (3)	16:31	77	16:05 (3)
21	05:42	06:12	06:43	07:15	07:36 (5)	06:52	14:27 (3)	07:19	14:49 (3)	
	20:26	19:49	18:58	18:10	17:06 (3)	16:35	16:05 (3)	16:32	77	16:06 (3)
22	05:43	06:13	06:44	07:16	07:37 (5)	06:53	14:28 (3)	07:20	14:49 (3)	
	20:25	19:48	18:57	18:08	17:06 (3)	16:34	16:04 (3)	16:32	77	16:06 (3)
23	05:44	06:14	06:45	07:17	07:38 (5)	06:54	14:28 (3)	07:20	14:50 (3)	
	20:24	19:46	18:55	18:07	17:06 (3)	16:34	16:04 (3)	16:33	77	16:07 (3)
24	05:45	06:15	06:46	07:18	07:40 (5)	06:55	14:30 (3)	07:21	14:50 (3)	
	20:23	19:45	18:53	18:05	17:07 (3)	16:33	16:05 (3)	16:33	77	16:07 (3)
25	05:46	06:16	06:47	06:20	06:41 (5)	06:56	14:30 (3)	07:21	14:51 (3)	
	20:22	19:43	18:52	17:04	16:07 (3)	16:32	16:04 (3)	16:34	77	16:08 (3)
26	05:47	06:17	06:48	06:21	06:42 (5)	06:57	14:31 (3)	07:22	14:51 (3)	
	20:22	19:42	18:50	17:02	16:07 (3)	16:32	16:04 (3)	16:34	77	16:08 (3)
27	05:47	06:18	06:49	06:22	06:43 (5)	06:59	14:31 (3)	07:22	14:51 (3)	
	20:21	19:40	18:48	17:01	16:07 (3)	16:31	16:04 (3)	16:35	78	16:09 (3)
28	05:48	06:19	06:50	16:16 (3)	06:23	06:44 (5)	07:00	14:32 (3)	07:22	14:51 (3)
	20:20	19:39	18:46	20	16:36 (3)	17:00	16:06 (3)	16:31	91	16:09 (3)
29	05:49	06:20	06:51	16:10 (3)	06:24	06:46 (4)	07:01	14:33 (3)	07:23	14:52 (3)
	20:19	19:37	18:45	31	16:41 (3)	16:58	16:07 (3)	16:31	90	16:11 (3)
30	05:50	06:21	06:52	16:06 (3)	06:25	06:47 (4)	07:02	14:34 (3)	07:23	14:52 (3)
	20:18	19:35	18:43	38	16:44 (3)	16:57	16:07 (3)	16:30	90	16:11 (3)
31	05:51	06:22		06:27	06:48 (4)			07:23	14:52 (3)	
	20:17	19:34		16:56	16:07 (3)			16:38	80	16:12 (3)
Potential sun hours	460	428	375	345	298	298	287			
Total, worst case			89	4279	3383	2485				

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: R - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (18)

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	07:23	08:14 (6)	07:10	06:34	06:43	05:57
	16:39	42 08:56 (6)	17:13	17:47	19:22	19:54
2	07:23	08:15 (6)	07:09	06:32	06:41	05:55
	16:40	41 08:56 (6)	17:14	17:49	19:23	19:55
3	07:24	08:16 (6)	07:08	06:31	06:39	05:54
	16:41	40 08:56 (6)	17:16	17:50	19:24	19:56
4	07:24	08:16 (6)	07:07	06:29	06:38	05:53
	16:41	40 08:56 (6)	17:17	17:51	19:25	19:57
5	07:24	08:17 (6)	07:06	06:27	17:25 (4)	06:36
	16:42	40 08:57 (6)	17:18	17:52	4 17:29 (4)	19:26
6	07:24	08:18 (6)	07:05	06:26	17:20 (4)	06:34
	16:43	39 08:57 (6)	17:19	17:53	12 17:32 (4)	19:27
7	07:23	08:19 (6)	07:04	06:24	17:17 (4)	06:33
	16:44	38 08:57 (6)	17:21	17:54	16 17:33 (4)	19:28
8	07:23	08:19 (6)	07:02	06:23	17:15 (4)	06:31
	16:45	37 08:56 (6)	17:22	17:56	19 17:34 (4)	19:29
9	07:23	08:20 (6)	07:01	06:21	17:14 (4)	06:30
	16:46	36 08:56 (6)	17:23	17:57	22 17:36 (4)	19:30
10	07:23	08:22 (6)	07:00	06:19	17:12 (4)	06:28
	16:47	34 08:56 (6)	17:25	17:58	24 17:36 (4)	19:31
11	07:23	08:23 (6)	06:59	06:18	17:12 (4)	06:26
	16:48	33 08:56 (6)	17:26	17:59	26 17:38 (4)	19:32
12	07:23	08:23 (6)	06:58	06:16	17:10 (4)	06:25
	16:49	32 08:55 (6)	17:27	18:00	29 17:39 (4)	19:34
13	07:22	08:25 (6)	06:56	06:14	17:09 (4)	06:23
	16:50	30 08:55 (6)	17:28	18:01	31 17:40 (4)	19:35
14	07:22	08:26 (6)	06:55	06:13	17:10 (4)	06:22
	16:52	28 08:54 (6)	17:29	18:02	32 17:42 (4)	19:36
15	07:22	08:27 (6)	06:54	06:11	17:09 (4)	06:20
	16:53	27 08:54 (6)	17:31	18:03	33 17:42 (4)	19:37
16	07:21	08:29 (6)	06:52	06:10	17:08 (4)	06:18
	16:54	23 08:52 (6)	17:32	18:04	33 17:41 (4)	19:38
17	07:21	08:31 (6)	06:51	06:08	17:09 (4)	06:17
	16:55	20 08:51 (6)	17:33	18:06	32 17:41 (4)	19:39
18	07:20	08:33 (6)	06:50	06:06	17:09 (4)	06:15
	16:56	16 08:49 (6)	17:34	18:07	31 17:40 (4)	19:40
19	07:20	08:37 (6)	06:48	06:05	17:09 (4)	06:14
	16:57	10 08:47 (6)	17:36	18:08	30 17:39 (4)	19:41
20	07:19		06:47	06:03	17:09 (4)	06:12
	16:58		17:37	18:09	29 17:38 (4)	19:42
21	07:19		06:46	06:01	17:10 (4)	06:11
	17:00		17:38	18:10	27 17:37 (4)	19:43
22	07:18		06:44	05:59	17:10 (4)	06:09
	17:01		17:39	18:11	26 17:36 (4)	19:44
23	07:17		06:43	05:58	17:11 (4)	06:08
	17:02		17:40	18:12	23 17:34 (4)	19:45
24	07:17		06:41	05:56	17:14 (4)	06:06
	17:03		17:42	18:13	18 17:32 (4)	19:46
25	07:16		06:40	05:54	17:16 (4)	06:05
	17:05		17:43	18:14	12 17:28 (4)	19:47
26	07:15		06:38	05:53	06:04	05:31
	17:06		17:44	18:15	19:49	20:19
27	07:14		06:37	05:51	06:02	05:30
	17:07		17:45	18:16	19:50	20:19
28	07:13		06:35	05:49	06:01	05:30
	17:08		17:46	18:17	19:51	20:20
29	07:13			06:48	05:59	05:29
	17:09			19:19	19:52	20:21
30	07:12			06:46	05:58	05:29
	17:11			19:20	19:53	20:22
31	07:11			06:44		05:28
	17:12			19:21		20:23
Potential sun hours	297		297	369	399	449
Total, worst case	606		509			453

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: R - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (18)

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	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	17:49 (4) 18:18 (4)	06:28 16:54	07:03 16:30	08:05 (6) 08:38 (6)
2	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	17:49 (4) 18:16 (4)	06:29 16:53	07:04 16:30	08:05 (6) 08:39 (6)
3	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	17:50 (4) 18:16 (4)	06:30 16:52	07:05 16:29	08:04 (6) 08:40 (6)
4	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	17:51 (4) 18:14 (4)	06:31 16:51	07:06 16:29	08:04 (6) 08:41 (6)
5	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	17:52 (4) 18:12 (4)	06:33 16:50	07:07 16:29	08:04 (6) 08:42 (6)
6	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	17:53 (4) 18:10 (4)	06:34 16:48	07:08 16:29	08:04 (6) 08:43 (6)
7	05:31 20:33	05:58 20:08	06:29 19:22	07:00 18:31	17:55 (4) 18:09 (4)	06:35 16:47	07:09 16:29	08:04 (6) 08:44 (6)
8	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	17:57 (4) 18:07 (4)	06:36 16:46	07:10 16:29	08:05 (6) 08:45 (6)
9	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	07:02 16:45	06:37 16:45	07:11 16:29	08:04 (6) 08:44 (6)
10	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:26	06:39 16:44	06:39 16:44	07:11 16:29	08:04 (6) 08:45 (6)
11	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	06:40 16:43	07:12 16:29	08:04 (6) 08:46 (6)
12	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	07:05 16:42	06:41 16:42	07:13 16:29	08:05 (6) 08:47 (6)
13	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	06:42 16:41	07:14 16:29	08:05 (6) 08:48 (6)
14	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	06:43 16:40	07:15 16:29	08:05 (6) 08:47 (6)
15	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:39	06:45 16:39	07:15 16:29	08:06 (6) 08:48 (6)
16	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	06:46 16:39	07:16 16:30	08:06 (6) 08:49 (6)
17	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	06:47 16:38	07:17 16:30	08:07 (6) 08:50 (6)
18	05:39 20:28	06:09 19:54	06:40 19:03	18:04 (4) 18:15 (4)	07:12 18:14	06:48 16:37	07:18 16:30	08:07 (6) 08:50 (6)
19	05:40 20:27	06:10 19:52	06:41 19:02	18:01 (4) 18:18 (4)	07:13 18:12	06:49 16:36	07:18 16:31	08:08 (6) 08:51 (6)
20	05:41 20:26	06:11 19:51	06:42 19:00	17:58 (4) 18:19 (4)	07:14 18:11	06:50 16:35	07:19 16:31	08:07 (6) 08:51 (6)
21	05:42 20:26	06:12 19:49	06:43 18:58	17:56 (4) 18:21 (4)	07:15 18:09	06:52 16:35	07:19 16:31	08:08 (6) 08:52 (6)
22	05:43 20:25	06:13 19:48	06:44 18:57	17:55 (4) 18:21 (4)	07:16 18:08	06:53 16:34	07:20 16:32	08:08 (6) 08:52 (6)
23	05:44 20:24	06:14 19:46	06:45 18:55	17:53 (4) 18:22 (4)	07:17 18:07	06:54 16:34	08:13 (6) 07:20	08:09 (6) 08:09 (6)
24	05:45 20:23	06:15 19:45	06:46 18:53	17:52 (4) 18:22 (4)	07:18 18:05	06:55 16:33	08:23 (6) 16:33	08:09 (6) 08:53 (6)
25	05:46 20:22	06:16 19:43	06:47 18:51	17:51 (4) 18:23 (4)	07:19 17:04	06:56 16:32	08:09 (6) 16:34	08:10 (6) 08:53 (6)
26	05:46 20:21	06:17 19:42	06:48 18:50	17:50 (4) 18:23 (4)	07:04 17:02	06:57 16:32	08:08 (6) 16:34	08:11 (6) 08:54 (6)
27	05:47 20:20	06:18 19:40	06:49 18:48	17:50 (4) 18:22 (4)	06:22 17:01	06:58 16:31	08:07 (6) 16:35	08:11 (6) 08:54 (6)
28	05:48 20:20	06:19 19:39	06:50 18:46	17:49 (4) 18:22 (4)	06:23 17:00	07:00 16:31	08:06 (6) 16:36	08:11 (6) 08:54 (6)
29	05:49 20:19	06:20 19:37	06:51 18:45	17:49 (4) 18:22 (4)	06:24 16:58	07:01 16:31	08:05 (6) 16:36	08:13 (6) 08:55 (6)
30	05:50 20:18	06:21 19:35	06:52 18:43	17:49 (4) 18:20 (4)	06:25 16:57	07:02 16:30	08:04 (6) 16:37	08:13 (6) 08:56 (6)
31	05:51 20:16	06:22 19:34		06:27 16:56			07:23 16:38	08:14 (6) 08:56 (6)
Potential sun hours	460	428	375	345	298	287	1280	
Total, worst case			353	345	166	185	1280	

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: S - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (19)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	07:05 16:29
4	07:24 16:41	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:26 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	07:06 16:29
5	07:24 16:42	07:06 17:18	06:27 17:52	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	07:07 16:29
6	07:23 16:43	07:05 17:20	06:26 17:53	06:34 19:27	05:50 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:48	07:08 16:29
7	07:23 16:44	07:04 17:21	06:24 17:54	06:33 19:28	05:49 20:00	05:25 20:28	05:31 20:33	05:58 20:08	06:29 19:22	07:00 18:31	06:35 16:47	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:19 17:58	06:28 19:31	05:46 20:03	05:25 20:29	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:26	06:39 16:44	07:11 16:29
11	07:23 16:48	06:59 17:26	06:18 17:59	06:26 19:32	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:49	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:24 20:30	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:14 18:01	06:23 19:35	05:42 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:41 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:21 16:53	06:54 17:31	06:11 18:03	06:20 19:37	05:40 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:39	07:15 16:29
16	07:21 16:54	06:52 17:32	06:10 18:04	06:18 19:38	05:39 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:38 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33	05:39 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:24 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:19 16:31
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	05:59 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:16 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:25 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	06:56 16:32	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:48	05:31 20:19	05:26 20:35	05:46 20:21	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19	05:26 20:35	05:47 20:20	06:18 19:40	06:49 18:48	06:22 17:01	06:58 16:31	07:22 16:35
28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:19	06:19 19:39	06:50 18:46	06:23 17:00	07:00 16:31	07:22 16:36
29	07:13 17:09		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35	05:49 20:18	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:17	06:21 19:35	06:52 18:43	06:25 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:44 19:21		05:28 20:23		05:51 20:16	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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: T - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (20)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	07:05 16:29
4	07:24 16:41	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:26 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	07:06 16:29
5	07:24 16:42	07:06 17:18	06:27 17:52	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	07:07 16:29
6	07:23 16:43	07:05 17:20	06:26 17:53	06:34 19:27	05:50 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:48	07:08 16:29
7	07:23 16:44	07:04 17:21	06:24 17:54	06:33 19:28	05:49 20:00	05:25 20:28	05:31 20:33	05:58 20:08	06:29 19:22	07:00 18:31	06:35 16:47	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:19 17:58	06:28 19:31	05:46 20:03	05:25 20:29	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:26	06:39 16:44	07:11 16:29
11	07:23 16:48	06:59 17:26	06:18 17:59	06:26 19:32	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:49	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:24 20:30	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:14 18:01	06:23 19:35	05:42 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:41 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:21 16:53	06:54 17:31	06:11 18:03	06:20 19:37	05:40 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:39	07:15 16:29
16	07:21 16:54	06:52 17:32	06:10 18:04	06:18 19:38	05:39 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:38 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33	05:39 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:24 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:19 16:31
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	05:59 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:16 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:25 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	06:56 16:32	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:48	05:31 20:19	05:26 20:35	05:46 20:21	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19	05:26 20:35	05:47 20:20	06:18 19:40	06:49 18:48	06:22 17:01	06:58 16:31	07:22 16:35
28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:19	06:19 19:39	06:50 18:46	06:23 17:00	07:00 16:31	07:22 16:36
29	07:13 17:09		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35	05:49 20:18	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:17	06:21 19:35	06:52 18:43	06:25 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:44 19:21		05:28 20:23		05:51 20:16	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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: U - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (21)

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	07:23	07:10	06:34	06:43	05:57	05:28	05:28	05:52	06:23	06:53	06:28	07:03
	16:39	17:13	17:48	19:22	19:54	20:24	20:35	20:15	19:32	18:41	16:55	16:30
2	07:23	07:09	06:32	06:41	05:56	05:27	05:29	05:53	06:24	06:54	06:29	07:04
	16:40	17:15	17:49	19:23	19:55	20:24	20:34	20:14	19:31	18:40	16:53	16:30
3	07:24	07:08	06:31	06:40	05:54	05:27	05:29	05:54	06:25	06:56	06:30	07:05
	16:41	17:16	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:38	16:52	16:30
4	07:24	07:07	06:29	06:38	05:53	05:27	05:30	05:55	06:26	06:57	06:31	07:06
	16:42	17:17	17:51	19:25	19:57	20:26	20:34	20:12	19:27	18:36	16:51	16:29
5	07:24	07:06	06:28	06:36	05:52	05:26	05:30	05:56	06:27	06:58	06:33	07:07
	16:43	17:18	17:52	19:26	19:58	20:26	20:34	20:11	19:26	18:35	16:50	16:29
6	07:24	07:05	06:26	06:35	05:51	05:26	05:31	05:57	06:28	06:59	06:34	07:08
	16:44	17:20	17:53	19:27	19:59	20:27	20:34	20:10	19:24	18:33	16:49	16:29
7	07:24	07:04	06:24	06:33	05:49	05:26	05:32	05:58	06:29	07:00	06:35	07:09
	16:45	17:21	17:55	19:28	20:00	20:28	20:33	20:09	19:22	18:31	16:48	16:29
8	07:23	07:02	06:23	06:31	05:48	05:25	05:32	05:59	06:30	07:01	06:36	07:10
	16:45	17:22	17:56	19:29	20:01	20:28	20:33	20:07	19:21	18:30	16:46	16:29
9	07:23	07:01	06:21	06:30	05:47	05:25	05:33	06:00	06:31	07:02	06:37	07:11
	16:46	17:23	17:57	19:30	20:02	20:29	20:33	20:06	19:19	18:28	16:45	16:29
10	07:23	07:00	06:20	06:28	05:46	05:25	05:34	06:01	06:32	07:03	06:39	07:12
	16:48	17:25	17:58	19:32	20:03	20:30	20:32	20:05	19:17	18:27	16:44	16:29
11	07:23	06:59	06:18	06:26	05:45	05:25	05:34	06:02	06:33	07:04	06:40	07:12
	16:49	17:26	17:59	19:33	20:04	20:30	20:32	20:03	19:16	18:25	16:43	16:29
12	07:23	06:58	06:16	06:25	05:44	05:25	05:35	06:03	06:34	07:05	06:41	07:13
	16:50	17:27	18:00	19:34	20:05	20:31	20:31	20:02	19:14	18:23	16:42	16:29
13	07:22	06:56	06:15	06:23	05:43	05:25	05:36	06:04	06:35	07:06	06:42	07:14
	16:51	17:28	18:01	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:41	16:29
14	07:22	06:55	06:13	06:22	05:42	05:25	05:37	06:05	06:36	07:07	06:43	07:15
	16:52	17:30	18:02	19:36	20:07	20:31	20:30	19:59	19:10	18:20	16:41	16:29
15	07:22	06:54	06:11	06:20	05:41	05:24	05:37	06:06	06:37	07:08	06:45	07:16
	16:53	17:31	18:04	19:37	20:08	20:32	20:30	19:58	19:09	18:19	16:40	16:30
16	07:21	06:53	06:10	06:19	05:40	05:24	05:38	06:07	06:38	07:09	06:46	07:16
	16:54	17:32	18:05	19:38	20:09	20:32	20:29	19:57	19:07	18:17	16:39	16:30
17	07:21	06:51	06:08	06:17	05:39	05:25	05:39	06:08	06:39	07:11	06:47	07:17
	16:55	17:33	18:06	19:39	20:10	20:33	20:29	19:55	19:05	18:16	16:38	16:30
18	07:20	06:50	06:06	06:15	05:38	05:25	05:40	06:09	06:40	07:12	06:48	07:18
	16:56	17:35	18:07	19:40	20:11	20:33	20:28	19:54	19:04	18:14	16:37	16:31
19	07:20	06:48	06:05	06:14	05:37	05:25	05:41	06:10	06:41	07:13	06:49	07:18
	16:58	17:36	18:08	19:41	20:12	20:33	20:27	19:52	19:02	18:13	16:36	16:31
20	07:19	06:47	06:03	06:12	05:36	05:25	05:41	06:11	06:42	07:14	06:51	07:19
	16:59	17:37	18:09	19:42	20:13	20:34	20:26	19:51	19:00	18:11	16:36	16:31
21	07:19	06:46	06:01	06:11	05:35	05:25	05:42	06:12	06:43	07:15	06:52	07:19
	17:00	17:38	18:10	19:43	20:14	20:34	20:26	19:49	18:58	18:10	16:35	16:32
22	07:18	06:44	06:00	06:09	05:34	05:25	05:43	06:13	06:44	07:16	06:53	07:20
	17:01	17:39	18:11	19:44	20:15	20:34	20:25	19:48	18:57	18:08	16:34	16:32
23	07:17	06:43	05:58	06:08	05:34	05:25	05:44	06:14	06:45	07:17	06:54	07:20
	17:02	17:41	18:12	19:45	20:16	20:34	20:24	19:46	18:55	18:07	16:34	16:33
24	07:17	06:41	05:56	06:07	05:33	05:26	05:45	06:15	06:46	07:18	06:55	07:21
	17:04	17:42	18:13	19:46	20:17	20:34	20:23	19:45	18:53	18:05	16:33	16:33
25	07:16	06:40	05:55	06:05	05:32	05:26	05:46	06:16	06:47	06:20	06:56	07:21
	17:05	17:43	18:14	19:48	20:18	20:35	20:22	19:43	18:52	17:04	16:33	16:34
26	07:15	06:38	05:53	06:04	05:31	05:26	05:47	06:17	06:48	06:21	06:57	07:22
	17:06	17:44	18:15	19:49	20:19	20:35	20:21	19:42	18:50	17:02	16:32	16:34
27	07:14	06:37	05:51	06:02	05:31	05:27	05:48	06:18	06:49	06:22	06:59	07:22
	17:07	17:45	18:17	19:50	20:20	20:35	20:21	19:40	18:48	17:01	16:32	16:35
28	07:13	06:35	05:50	06:01	05:30	05:27	05:49	06:19	06:50	06:23	07:00	07:22
	17:08	17:46	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:31	16:36
29	07:13		06:48	06:00	05:29	05:27	05:49	06:20	06:51	06:24	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:58	16:31	16:37
30	07:12		06:46	05:58	05:29	05:28	05:50	06:21	06:52	06:25	07:02	07:23
	17:11		19:20	19:53	20:22	20:35	20:18	19:35	18:43	16:57	16:30	16:37
31	07:11		06:45		05:28		05:51	06:22		06:27		07:23
	17:12		19:21		20:23		20:17	19:34		16:56		16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Total, worst case												

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: V - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (22)
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	07:23 16:39	07:10 17:13	06:34 17:48	16:27 (10) 17:20 (10)	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	17:09 (10) 16:55	06:28 16:30	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	16:26 (10) 17:19 (10)	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:31	06:54 18:40	17:08 (10) 16:53	06:29 16:30	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	16:26 (10) 17:20 (10)	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	17:06 (10) 16:52	06:30 16:30	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	16:26 (10) 17:19 (10)	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	17:05 (10) 16:51	06:31 16:29	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	16:26 (10) 17:18 (10)	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	17:04 (10) 16:50	06:33 16:29	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	16:26 (10) 17:18 (10)	06:35 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	17:03 (10) 16:49	06:34 16:29	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	16:26 (10) 17:17 (10)	06:33 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	17:02 (10) 16:48	06:35 16:29	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	16:27 (10) 17:17 (10)	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	17:01 (10) 16:46	06:36 16:29	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	16:27 (10) 17:16 (10)	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	17:01 (10) 16:45	06:37 16:29	07:11 16:29
10	07:23 16:47	07:00 17:25	06:20 17:58	16:27 (10) 17:15 (10)	06:28 19:32	05:46 20:03	05:25 20:30	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	17:00 (10) 16:44	06:39 16:29	07:12 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	16:29 (10) 17:14 (10)	06:26 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:16	07:04 18:25	17:00 (10) 16:43	06:40 16:29	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	16:29 (10) 17:13 (10)	06:25 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	16:59 (10) 16:42	06:41 16:29	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	16:30 (10) 17:11 (10)	06:23 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	17:00 (10) 16:41	06:42 16:29	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	16:31 (10) 17:10 (10)	06:22 19:36	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	17:00 (10) 16:40	06:43 16:29	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:03	16:32 (10) 17:08 (10)	06:20 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	17:00 (10) 16:40	06:45 16:30	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	16:34 (10) 17:06 (10)	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	17:00 (10) 16:39	06:46 16:30	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	16:35 (10) 17:04 (10)	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	17:00 (10) 16:38	06:47 16:30	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	16:39 (10) 17:12 (10)	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	17:00 (10) 16:37	06:48 16:30	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	16:43 (10) 17:14 (10)	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	17:00 (10) 16:36	06:49 16:31	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	16:32 (10) 17:15 (10)	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	17:02 (10) 16:36	06:51 16:31	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	16:32 (10) 17:16 (10)	06:01 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	17:02 (10) 16:35	06:52 16:32	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	16:30 (10) 17:17 (10)	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	17:03 (10) 16:34	06:53 16:32	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	16:30 (10) 17:18 (10)	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	17:04 (10) 16:34	06:54 16:33	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	16:28 (10) 17:18 (10)	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	17:05 (10) 16:33	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	16:28 (10) 17:19 (10)	06:05 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	07:19 18:04	17:04 (10) 16:33	06:56 16:34	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	16:27 (10) 17:19 (10)	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:21	06:17 19:42	06:48 18:50	07:20 18:03	17:04 (10) 16:32	06:57 16:34	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	16:27 (10) 17:19 (10)	06:02 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	07:21 18:02	17:16 (10) 16:32	06:59 16:32	07:22 16:35
28	07:13 17:08	06:35 17:46	05:50 18:18	16:26 (10) 17:19 (10)	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:47	07:22 18:01	17:14 (10) 16:31	07:00 16:31	07:22 16:36
29	07:13 17:10	06:34 19:19	05:48 18:19	16:26 (10) 19:19	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	07:23 18:00	17:12 (10) 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11	06:33 19:20	05:46 18:20	16:26 (10) 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	07:24 18:00	17:10 (10) 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12	06:32 19:21	05:44 18:21	16:26 (10) 19:21	05:57 20:23	05:28 20:23	05:28 20:35	05:51 20:17	06:22 19:34	06:53 18:43	07:25 18:00	17:09 (10) 16:56	07:03 16:30	07:23 16:38
Potential sun hours	297	297	369	813	399	449	453	459	428	375	192	345	298	287
Total, worst case			642								1280			

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: W - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (23)
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	07:23 16:39	07:10 17:13	06:34 17:48	16:28 (10) 19:22	06:43 19:54	05:57 20:24	05:28 20:35	05:28 20:15	05:52 19:32	06:23 18:41	17:13 (10) 17:47 (10)	06:28 16:55	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	16:27 (10) 19:23	06:41 19:55	05:56 20:24	05:27 20:34	05:29 20:14	05:53 19:31	06:24 18:40	17:11 (10) 17:48 (10)	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	16:28 (10) 19:24	06:39 19:56	05:54 20:25	05:27 20:34	05:29 20:13	05:54 19:29	06:25 18:38	17:10 (10) 17:49 (10)	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	16:28 (10) 19:25	06:38 19:57	05:53 20:26	05:27 20:34	05:30 20:12	05:55 19:27	06:26 18:36	17:08 (10) 17:50 (10)	06:31 16:51	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	16:27 (10) 19:26	06:36 19:58	05:52 20:26	05:26 20:34	05:30 20:11	05:56 19:26	06:27 18:35	17:07 (10) 17:50 (10)	06:33 16:50	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	16:28 (10) 19:27	06:35 19:59	05:51 20:27	05:26 20:34	05:31 20:10	05:57 19:24	06:28 18:33	17:05 (10) 17:51 (10)	06:34 16:49	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	16:28 (10) 19:28	06:33 19:58	05:49 20:28	05:26 20:33	05:32 20:09	05:58 19:22	06:29 18:31	17:04 (10) 17:51 (10)	06:35 16:48	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	16:30 (10) 19:29	06:31 19:59	05:48 20:01	05:25 20:28	05:32 20:07	05:59 19:21	06:30 18:30	17:03 (10) 17:51 (10)	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	16:30 (10) 19:30	06:30 19:59	05:47 20:02	05:25 20:29	05:33 20:06	06:00 19:19	06:31 18:28	17:02 (10) 17:51 (10)	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:20 17:58	16:30 (10) 19:32	06:28 19:59	05:46 20:03	05:25 20:30	05:34 20:05	06:01 19:17	06:32 18:27	17:02 (10) 17:51 (10)	06:39 16:44	07:12 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	16:32 (10) 19:33	06:26 19:59	05:45 20:04	05:25 20:30	05:34 20:03	06:02 19:16	06:33 18:25	17:01 (10) 17:51 (10)	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 17:01 (10)	16:33 (10) 19:34	06:25 19:58	05:44 20:05	05:25 20:31	05:35 20:02	06:03 19:14	06:34 18:23	17:01 (10) 17:51 (10)	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 16:43 (10)	16:34 (10) 19:35	06:23 19:57	05:43 20:06	05:25 20:31	05:36 20:01	06:04 19:12	06:35 18:22	17:01 (10) 17:51 (10)	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 16:41 (10)	16:37 (10) 19:36	06:22 19:56	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:09	06:36 18:20	17:01 (10) 17:51 (10)	06:43 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 16:38 (10)	16:39 (10) 19:37	06:20 19:55	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:07	06:37 18:19	17:00 (10) 17:50 (10)	06:45 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 16:37 (10)	16:42 (10) 19:38	06:19 19:54	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:07	06:38 18:17	17:00 (10) 17:50 (10)	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 16:36 (10)	16:46 (10) 19:39	06:17 19:53	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:05	06:39 18:16	17:00 (10) 17:49 (10)	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 16:34 (10)	16:47 (10) 19:40	06:15 19:52	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:04	06:40 18:14	17:00 (10) 17:48 (10)	06:48 16:37	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 16:33 (10)	16:48 (10) 19:41	06:14 19:51	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:02	06:41 18:13	17:00 (10) 17:48 (10)	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 16:32 (10)	16:49 (10) 19:42	06:12 19:50	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:00	06:42 18:11	17:02 (10) 17:48 (10)	06:51 16:36	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 16:31 (10)	16:50 (10) 19:43	06:11 19:49	05:35 20:14	05:25 20:34	05:42 20:26	06:12 18:58	06:43 18:10	17:02 (10) 17:46 (10)	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 16:30 (10)	16:51 (10) 19:44	06:09 19:48	05:34 20:15	05:25 20:34	05:43 20:25	06:13 18:57	06:44 18:08	17:02 (10) 17:45 (10)	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 16:30 (10)	16:52 (10) 19:45	06:08 19:47	05:33 20:16	05:25 20:34	05:44 20:24	06:14 18:55	06:45 18:07	17:03 (10) 17:43 (10)	06:54 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 16:29 (10)	16:53 (10) 19:46	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 18:53	06:46 18:05	17:04 (10) 17:41 (10)	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 16:29 (10)	16:54 (10) 19:47	06:06 19:45	05:32 20:18	05:26 20:35	05:46 20:22	06:16 18:52	06:47 18:04	17:04 (10) 17:40 (10)	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 16:28 (10)	16:55 (10) 19:48	06:04 19:44	05:31 20:19	05:26 20:35	05:47 20:21	06:17 18:50	06:48 18:02	17:04 (10) 17:39 (10)	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 16:28 (10)	16:56 (10) 19:49	06:02 19:43	05:31 20:20	05:27 20:35	05:48 20:21	06:18 18:48	06:49 18:00	17:26 (10) 17:36 (10)	06:58 16:32	07:22 16:35
28	07:13 17:08	06:35 17:46	05:50 16:27 (10)	16:57 (10) 19:50	06:01 19:42	05:30 20:20	05:27 20:35	05:48 20:20	06:50 18:47	06:50 18:00	17:21 (10) 17:40 (10)	06:59 16:31	07:22 16:36
29	07:13 17:10		06:48 19:19	17:18 (10)	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 18:45	06:51 18:00	17:17 (10) 17:43 (10)	06:24 16:58	07:01 16:31
30	07:12 17:11		06:46 19:20		05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 18:35	06:52 18:43	17:15 (10) 17:45 (10)	06:25 16:57	07:02 16:30
31	07:11 17:12		06:44 19:21		05:57 20:23	05:28 20:23	05:27 20:35	05:51 20:17	06:22 19:34	06:53 18:43		06:27 16:56	07:03 16:38
Potential sun hours	297	297	369	637	399	449	453	459	428	375	85	345	298
Total, worst case		668								1243			287

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

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

Shadow receptor: X - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (24)
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	07:23 16:39	07:10 17:13	06:34 17:48	16:17 (10) 17:08 (10)	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	17:11 (10) 17:29 (10)	06:28 16:55	15:54 (10) 16:30 (10)	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	16:17 (10) 17:07 (10)	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:31	06:54 18:40	17:07 (10) 17:32 (10)	06:29 16:53	15:56 (10) 16:30 (10)	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	16:18 (10) 17:07 (10)	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	17:04 (10) 17:34 (10)	06:30 16:52	15:58 (10) 16:28 (10)	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	16:18 (10) 17:06 (10)	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	17:02 (10) 17:36 (10)	06:31 16:51	16:00 (10) 16:25 (10)	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	16:18 (10) 17:04 (10)	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	17:00 (10) 17:37 (10)	06:33 16:50	16:03 (10) 16:23 (10)	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	16:20 (10) 17:04 (10)	06:35 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	16:58 (10) 17:38 (10)	06:34 16:49	16:07 (10) 16:19 (10)	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	16:20 (10) 17:02 (10)	06:33 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	16:56 (10) 17:39 (10)	06:35 16:48	16:09 (10) 16:29	07:09 16:29
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9	07:23 16:46	07:01 17:23	06:21 17:57	16:23 (10) 16:59 (10)	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	16:53 (10) 17:40 (10)	06:37 16:45	16:11 (10) 16:29	07:11 16:29
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11	07:23 16:49	06:59 17:26	06:18 17:59	16:27 (10) 16:54 (10)	06:26 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:16	07:04 18:25	16:51 (10) 17:41 (10)	06:40 16:43	16:13 (10) 16:29	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	16:30 (10) 16:51 (10)	06:25 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	16:50 (10) 17:41 (10)	06:41 16:42	16:14 (10) 16:29	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	16:34 (10) 16:45 (10)	06:23 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	16:50 (10) 17:42 (10)	06:42 16:41	16:15 (10) 16:29	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	16:36 (10) 16:46 (10)	06:22 19:36	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	16:49 (10) 17:42 (10)	06:43 16:40	16:16 (10) 16:29	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:03	16:19 (10) 17:07 (10)	06:11 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	16:48 (10) 17:42 (10)	06:45 16:40	16:17 (10) 16:30	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	16:19 (10) 17:08 (10)	06:10 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	16:48 (10) 17:42 (10)	06:46 16:39	16:18 (10) 16:30	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	16:18 (10) 17:09 (10)	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	16:47 (10) 17:41 (10)	06:47 16:38	16:19 (10) 16:30	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	16:17 (10) 17:09 (10)	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	16:47 (10) 17:41 (10)	06:48 16:37	16:20 (10) 16:30	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	16:17 (10) 17:10 (10)	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	16:46 (10) 17:40 (10)	06:49 16:36	16:21 (10) 16:31	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	16:16 (10) 17:09 (10)	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	16:47 (10) 17:41 (10)	06:51 16:36	16:22 (10) 16:31	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	16:16 (10) 17:10 (10)	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	16:47 (10) 17:40 (10)	06:52 16:35	16:23 (10) 16:32	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	16:16 (10) 17:09 (10)	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	16:47 (10) 17:40 (10)	06:53 16:34	16:24 (10) 16:32	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	16:16 (10) 17:10 (10)	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	16:47 (10) 17:39 (10)	06:54 16:34	16:25 (10) 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	16:15 (10) 17:09 (10)	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	16:47 (10) 17:38 (10)	06:55 16:33	16:26 (10) 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	16:16 (10) 17:10 (10)	06:05 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	07:19 17:04	16:47 (10) 17:39 (10)	06:56 16:33	16:27 (10) 16:34	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	16:15 (10) 17:09 (10)	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:21	06:17 19:42	06:48 18:50	07:20 17:02	16:48 (10) 17:39 (10)	06:57 16:32	16:28 (10) 16:34	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	16:16 (10) 17:09 (10)	06:02 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	07:21 17:01	16:49 (10) 17:36 (10)	06:59 16:32	16:29 (10) 16:35	07:22 16:35
28	07:13 17:08	06:35 17:46	05:50 18:18	16:16 (10) 17:08 (10)	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:47	07:22 17:00	16:50 (10) 17:37 (10)	07:00 16:31	16:30 (10) 16:36	07:22 16:36
29	07:13 17:10	06:34 17:47	05:49 18:19	16:17 (10) 17:09 (10)	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	07:23 16:58	16:51 (10) 17:38 (10)	07:01 16:31	16:31 (10) 16:36	07:23 16:36
30	07:12 17:11	06:33 17:48	05:48 18:20	16:18 (10) 17:10 (10)	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	07:24 16:57	16:52 (10) 17:39 (10)	07:02 16:32	16:32 (10) 16:37	07:23 16:37
31	07:11 17:12	06:32 17:49	05:47 18:21	16:19 (10) 17:11 (10)	05:57 19:54	05:28 20:23	05:27 20:36	05:51 20:17	06:22 19:34	06:53 18:44	07:25 17:01	16:53 (10) 17:40 (10)	07:03 16:33	16:33 (10) 16:38	07:23 16:38
Potential sun hours	297	297	369	495	399	449	453	459	428	375	345	1422	298	157	287
Total, worst case			1067												

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

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

SHADOW - Calendar

Shadow receptor: Y - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (25)
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	07:23 16:39	07:10 17:13	06:34 17:48	16:21 (10) 17:17 (10)	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	17:04 (10) 16:55	06:28 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	16:21 (10) 17:17 (10)	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:31	06:54 18:40	17:03 (10) 16:53	06:29 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	16:21 (10) 17:17 (10)	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	17:01 (10) 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	16:21 (10) 17:16 (10)	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	17:00 (10) 16:51	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	16:21 (10) 17:15 (10)	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	16:59 (10) 16:50	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	16:21 (10) 17:16 (10)	06:35 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	16:58 (10) 16:49	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	16:21 (10) 17:15 (10)	06:33 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	16:57 (10) 16:48	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	16:22 (10) 17:14 (10)	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	16:56 (10) 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	16:22 (10) 17:13 (10)	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	16:56 (10) 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:20 17:58	16:22 (10) 17:12 (10)	06:28 19:32	05:46 20:03	05:25 20:30	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	16:55 (10) 16:44	07:12 16:29
11	07:23 16:49	06:59 17:26	16:46 (10) 16:55 (10)	06:18 17:59	16:24 (10) 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:16	07:04 18:25	16:55 (10) 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	16:40 (10) 17:00 (10)	06:16 18:00	16:24 (10) 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	16:54 (10) 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	16:37 (10) 17:03 (10)	06:15 18:01	16:25 (10) 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	16:55 (10) 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	16:35 (10) 17:06 (10)	06:13 18:02	16:27 (10) 19:36	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	16:55 (10) 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	16:33 (10) 17:07 (10)	06:11 18:03	16:28 (10) 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	16:54 (10) 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	16:31 (10) 17:09 (10)	06:10 18:05	16:29 (10) 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	16:54 (10) 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	16:30 (10) 17:11 (10)	06:08 18:06	16:32 (10) 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	16:54 (10) 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	16:28 (10) 17:12 (10)	06:06 18:07	16:34 (10) 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	16:54 (10) 16:37	07:18 16:30
19	07:20 16:57	06:48 17:36	16:28 (10) 17:13 (10)	06:05 18:08	16:37 (10) 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	16:55 (10) 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	16:26 (10) 17:14 (10)	06:03 18:09	16:40 (10) 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	16:56 (10) 16:36	07:19 16:31
21	07:19 17:00	06:46 17:38	16:25 (10) 17:15 (10)	06:01 18:10	16:43 (10) 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	16:56 (10) 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	16:24 (10) 17:15 (10)	06:00 18:11	16:46 (10) 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	16:57 (10) 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	16:24 (10) 17:16 (10)	05:58 18:12	16:49 (10) 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	16:58 (10) 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	16:23 (10) 17:16 (10)	05:56 18:13	16:50 (10) 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	16:58 (10) 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	16:23 (10) 17:17 (10)	05:55 18:14	16:51 (10) 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	07:19 18:04	16:59 (10) 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	16:22 (10) 17:16 (10)	05:53 18:15	16:52 (10) 19:49	05:31 20:19	05:26 20:35	05:47 20:21	06:17 19:42	06:48 18:50	07:20 18:03	16:59 (10) 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	16:22 (10) 17:17 (10)	05:51 18:17	16:53 (10) 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	07:21 18:02	16:59 (10) 16:32	07:22 16:35
28	07:13 17:08	06:35 17:46	16:21 (10) 17:17 (10)	05:50 18:18	16:54 (10) 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:47	07:22 18:01	16:59 (10) 16:31	07:22 16:36
29	07:13 17:10	06:34 19:19	16:20 (10) 19:19	05:49 18:19	16:55 (10) 19:52	05:29 20:21	05:28 20:35	05:49 20:19	06:20 19:37	06:51 18:45	07:23 18:00	16:59 (10) 16:31	07:23 16:36
30	07:12 17:11	06:33 19:20	16:19 (10) 19:20	05:48 18:20	16:56 (10) 19:53	05:28 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	07:24 18:00	16:59 (10) 16:30	07:23 16:37
31	07:11 17:12	06:32 19:21	16:18 (10) 19:21	05:47 18:21	16:57 (10) 19:54	05:27 20:23	05:28 20:36	05:51 20:17	06:22 19:34	06:53 18:43	07:25 18:00	16:59 (10) 16:29	07:23 16:38
Potential sun hours	297	297	369	856	399	449	453	459	428	375	211	345	298
Total, worst case			761									1430	

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

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

Shadow receptor: Z - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (26)
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	07:23 16:39	07:10 17:13	06:34 17:48	06:53 (15) 06:43	05:57 19:54	05:28 20:23	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	07:14 (15) 07:31 (15)	06:28 16:55	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	06:51 (15) 06:41	05:56 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:31	06:54 18:40	07:15 (15) 07:33 (15)	06:29 16:53	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:50 (15) 06:39	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	07:16 (15) 07:34 (15)	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	06:48 (15) 06:38	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	07:17 (15) 07:34 (15)	06:31 16:51	07:06 16:29
5	07:24 16:43	07:06 17:18	06:27 17:52	06:46 (15) 06:36	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	07:18 (15) 07:34 (15)	06:33 16:50	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	06:45 (15) 06:35	05:50 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	07:19 (15) 07:34 (15)	06:34 16:49	07:08 16:29
7	07:23 16:44	07:04 17:21	06:24 17:55	06:43 (15) 06:33	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:08	06:29 19:22	07:00 18:31	07:20 (15) 07:33 (15)	06:35 16:47	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	06:42 (15) 06:31	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	07:21 (15) 07:31 (15)	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:40 (15) 06:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	07:22 (15) 07:32 (15)	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:19 17:58	06:38 (15) 06:28	05:46 20:03	05:25 20:29	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	07:23 (15) 07:31 (15)	06:39 16:44	07:11 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	06:37 (15) 06:26	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	07:24 (15) 07:29 (15)	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	06:35 (15) 06:25	05:44 20:05	05:25 20:30	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	07:25 (15) 07:28 (15)	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	06:36 (15) 06:23	05:43 20:06	05:25 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	07:26 (15) 07:31 (15)	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:39 (15) 06:22	05:42 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	07:27 (15) 07:32 (15)	06:43 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:03	06:40 (15) 06:20	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	07:28 (15) 07:33 (15)	06:45 16:40	07:16 16:30
16	07:21 16:54	06:52 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	07:29 (15) 07:34 (15)	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:11 18:16	07:35 (15) 07:40 (15)	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	07:36 (15) 07:41 (15)	06:48 16:37	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	07:42 (15) 07:47 (15)	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	07:48 (15) 07:53 (15)	06:50 16:36	07:19 16:31
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	07:54 (15) 07:59 (15)	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:07	08:00 (15) 08:05 (15)	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	08:06 (15) 08:11 (15)	06:54 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	08:12 (15) 08:17 (15)	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:52	07:19 18:04	08:18 (15) 08:23 (15)	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:21	06:17 19:42	06:48 18:50	07:20 18:06	08:24 (15) 08:29 (15)	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19	05:27 20:35	05:48 20:20	06:18 19:40	06:49 18:48	07:21 18:07	08:30 (15) 08:35 (15)	06:58 16:32	07:22 16:35
28	07:13 17:08	06:35 17:46	05:49 18:18	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:46	07:22 18:08	08:36 (15) 08:41 (15)	07:00 16:31	07:22 16:36
29	07:13 17:10	06:48 19:19	06:00 19:19	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	07:23 18:09	08:42 (15) 08:47 (15)	07:01 16:31	07:23 16:36
30	07:12 17:11	06:46 19:20	06:00 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:17	06:52 19:35	06:25 18:43	07:24 18:10	08:48 (15) 08:53 (15)	07:02 16:30	07:23 16:37
31	07:11 17:12	06:44 19:21	06:00 19:21	05:58 19:53	05:28 20:23	05:27 20:35	05:51 20:16	06:22 19:34	06:52 18:43	07:25 18:11	08:54 (15) 08:59 (15)	07:03 16:30	07:23 16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287	
Total, worst case			169						21	152			

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

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

Shadow receptor: AA - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (27)
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	07:23 16:39	07:10 17:13	07:30 (15) 07:41 (15)	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:52 20:34	06:23 20:15	06:53 19:32	06:28 18:41	06:49 (15) 16:30
2	07:23 16:40	07:09 17:15	07:29 (15) 07:42 (15)	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:53 20:34	06:24 20:14	06:54 19:30	06:29 18:40	06:51 (15) 16:30
3	07:23 16:41	07:08 17:16	07:28 (15) 07:43 (15)	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:54 20:34	06:25 20:13	06:55 19:29	06:30 18:38	06:52 (15) 16:29
4	07:24 16:42	07:07 17:17	07:27 (15) 07:44 (15)	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:26	05:55 20:34	06:26 20:12	06:57 19:27	06:31 18:36	06:53 (15) 16:29
5	07:24 16:43	07:06 17:18	07:26 (15) 07:45 (15)	06:27 17:52	06:36 19:26	05:52 19:58	05:26 20:26	05:56 20:34	06:27 20:11	06:58 19:26	06:33 18:35	06:54 (15) 16:29
6	07:23 16:43	07:05 17:20	07:24 (15) 07:44 (15)	06:26 17:53	06:34 19:27	05:50 19:59	05:26 20:27	05:57 20:34	06:28 20:10	06:59 19:24	06:34 18:33	06:56 (15) 16:29
7	07:23 16:44	07:04 17:21	07:23 (15) 07:45 (15)	06:24 17:54	06:33 19:28	05:49 20:00	05:26 20:28	05:58 20:33	06:29 20:08	07:00 19:22	06:35 18:31	06:57 (15) 16:29
8	07:23 16:45	07:02 17:22	07:22 (15) 07:45 (15)	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:59 20:33	06:30 20:07	07:01 19:21	06:36 18:30	06:58 (15) 16:29
9	07:23 16:46	07:01 17:23	07:21 (15) 07:45 (15)	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	06:00 20:33	06:31 20:06	07:02 19:19	06:37 18:28	07:00 (15) 16:29
10	07:23 16:47	07:00 17:25	07:20 (15) 07:46 (15)	06:19 17:58	06:28 19:31	05:46 20:03	05:25 20:29	06:01 20:32	06:32 20:05	07:03 19:17	06:39 18:27	07:01 (15) 16:29
11	07:23 16:48	06:59 17:26	07:18 (15) 07:45 (15)	06:18 17:59	06:26 19:33	05:45 20:04	05:25 20:30	06:02 20:32	06:33 20:03	07:04 19:15	06:40 18:25	07:02 (15) 16:29
12	07:23 16:50	06:58 17:27	07:17 (15) 07:44 (15)	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:30	06:03 20:31	06:34 20:02	07:05 19:14	06:41 18:23	07:03 (15) 16:29
13	07:22 16:51	06:56 17:28	07:17 (15) 07:44 (15)	06:15 18:01	06:23 19:35	05:43 20:06	05:24 20:31	06:04 20:31	06:35 20:01	07:06 19:12	06:42 18:22	07:05 (15) 16:29
14	07:22 16:52	06:55 17:30	07:18 (15) 07:44 (15)	06:13 18:02	06:22 19:36	05:42 20:07	05:24 20:31	06:05 19:59	06:36 19:10	07:07 18:20	06:43 18:20	07:06 (15) 16:29
15	07:21 16:53	06:54 17:31	07:18 (15) 07:42 (15)	06:11 18:03	06:20 19:37	05:41 20:08	05:24 20:32	06:06 19:58	06:37 19:09	07:08 18:19	06:45 18:19	07:07 (15) 16:30
16	07:21 16:54	06:52 17:32	07:20 (15) 07:41 (15)	06:10 18:05	06:18 19:38	05:40 20:09	05:24 20:32	06:07 19:57	06:38 20:29	07:09 18:17	06:46 18:17	07:08 (15) 16:30
17	07:21 16:55	06:51 17:33	07:20 (15) 07:39 (15)	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	06:08 19:55	06:39 19:05	07:11 18:16	06:47 18:16	07:09 (15) 16:30
18	07:20 16:56	06:50 17:34	07:23 (15) 07:37 (15)	06:06 18:07	06:15 19:40	05:38 20:11	05:25 20:33	06:09 19:54	06:40 19:04	07:12 18:14	06:48 18:14	07:10 (15) 16:30
19	07:20 16:57	06:48 17:36	07:27 (15) 07:33 (15)	06:05 18:08	06:14 19:41	05:37 20:12	05:40 20:33	06:10 19:52	06:41 19:02	07:13 18:12	06:49 18:12	07:11 (15) 16:31
20	07:19 16:59	06:47 17:37	07:33 (15)	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	06:11 19:51	06:42 19:00	07:14 18:11	06:50 18:11	07:12 (15) 16:31
21	07:18 17:00	06:46 17:38	07:34 (15)	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	06:12 19:49	06:43 18:58	07:15 18:10	06:52 18:10	07:13 (15) 16:31
22	07:18 17:01	06:44 17:39	07:35 (15)	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	06:07 19:48	06:38 18:57	07:16 18:08	06:53 18:08	07:14 (15) 16:32
23	07:17 17:02	06:43 17:41	07:36 (15)	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	06:14 19:46	06:45 18:55	07:17 18:07	06:54 18:07	07:15 (15) 16:33
24	07:16 17:03	06:41 17:42	07:37 (15)	05:56 18:13	06:06 19:46	05:33 20:17	05:26 20:34	06:15 19:45	06:46 18:53	07:18 18:05	06:55 18:05	07:16 (15) 16:33
25	07:16 17:05	06:40 17:43	07:38 (15)	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	06:16 19:43	06:47 18:52	07:19 17:04	06:56 18:04	07:17 (15) 16:34
26	07:15 17:06	06:38 17:44	07:39 (15)	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	06:17 19:42	06:48 18:50	07:20 17:02	06:57 18:04	07:18 (15) 16:34
27	07:14 17:07	06:37 17:45	07:40 (15)	05:51 18:16	06:02 19:50	05:31 20:19	05:27 20:35	06:18 19:40	06:49 18:48	07:21 17:01	06:58 17:01	07:19 (15) 16:35
28	07:13 17:08	06:35 17:46	07:41 (15)	05:49 18:18	06:01 19:51	05:30 20:20	05:27 20:35	06:19 19:39	06:50 18:46	07:22 17:00	06:59 17:00	07:20 (15) 16:36
29	07:13 17:10	06:33 (15) 07:37 (15)	07:42 (15)	06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35	06:20 19:37	06:51 18:45	07:23 16:58	07:01 18:45	07:21 (15) 16:36
30	07:12 17:11	06:32 (15) 07:39 (15)	07:43 (15)	06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	06:21 20:17	06:52 19:35	07:24 18:43	07:02 16:57	07:22 (15) 16:37
31	07:11 17:12	06:31 (15) 07:40 (15)	07:44 (15)	06:44 19:21	05:57 19:21	05:28 20:23	05:27 20:36	06:22 19:34	06:27 16:56	07:25 17:14	07:03 16:56	07:23 (15) 16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Total, worst case	21	381	369	399	449	453	459	428	375	345	298	287

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: AB - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (28)

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	07:23 16:39	07:10 17:13	07:30 (15) 07:46 (15)	06:34 17:48	06:43 19:22	05:57 19:54
2	07:23 16:40	07:09 17:15	07:29 (15) 07:47 (15)	06:32 17:49	06:41 19:23	05:55 19:55
3	07:23 16:41	07:08 17:16	07:28 (15) 07:47 (15)	06:31 17:50	06:39 19:24	05:54 19:56
4	07:24 16:42	07:07 17:17	07:27 (15) 07:48 (15)	06:29 17:51	06:38 19:25	05:53 19:57
5	07:24 16:43	07:06 17:18	07:26 (15) 07:48 (15)	06:27 17:52	06:36 19:26	05:52 19:58
6	07:23 16:43	07:05 17:20	07:24 (15) 07:47 (15)	06:26 17:53	06:34 19:27	05:50 19:59
7	07:23 16:44	07:04 17:21	07:23 (15) 07:47 (15)	06:24 17:54	06:33 19:28	05:49 20:00
8	07:23 16:45	07:02 17:22	07:22 (15) 07:47 (15)	06:23 17:56	06:31 19:29	05:48 20:01
9	07:23 16:46	07:01 17:23	07:21 (15) 07:47 (15)	06:21 17:57	06:30 19:30	05:47 20:02
10	07:23 16:47	07:00 17:25	07:20 (15) 07:47 (15)	06:19 17:58	06:28 19:31	05:46 20:03
11	07:23 16:48	06:59 17:26	07:20 (15) 07:46 (15)	06:18 17:59	06:26 19:33	05:45 20:04
12	07:23 16:50	06:58 17:27	07:21 (15) 07:45 (15)	06:16 18:00	06:25 19:34	05:44 20:05
13	07:22 16:51	06:56 17:28	07:23 (15) 07:44 (15)	06:15 18:01	06:23 19:35	05:43 20:06
14	07:22 16:52	06:55 17:30	07:24 (15) 07:43 (15)	06:13 18:02	06:22 19:36	05:42 20:07
15	07:21 16:53	06:54 17:31	07:26 (15) 07:40 (15)	06:11 18:03	06:20 19:37	05:41 20:08
16	07:21 16:54	06:52 17:32	07:30 (15) 07:37 (15)	06:10 18:05	06:18 19:38	05:40 20:09
17	07:21 16:55	06:51 17:33	07:37 (15) 18:06	18:05 18:06	19:38 19:39	20:09 20:10
18	07:20 16:56	06:50 17:34	06:06 18:07	06:06 18:07	06:15 19:40	05:38 20:11
19	07:20 16:57	06:48 17:36	06:05 18:08	06:05 18:08	06:14 19:41	05:37 20:12
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 18:09	06:12 19:42	05:36 20:13
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 18:10	06:11 19:43	05:35 20:14
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 18:11	06:09 19:44	05:34 20:15
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 18:12	06:08 19:45	05:33 20:16
24	07:16 17:03	06:41 17:42	05:56 18:13	06:06 18:13	06:06 19:46	05:33 20:17
25	07:16 17:05	07:36 (15) 07:37 (15)	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18
26	07:15 17:06	07:36 (15) 07:40 (15)	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19
27	07:14 17:07	07:35 (15) 07:42 (15)	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19
28	07:13 17:08	07:34 (15) 07:43 (15)	06:35 17:46	05:49 18:18	06:01 19:51	05:30 20:20
29	07:13 17:10	07:33 (15) 07:44 (15)	06:48 19:19	06:48 19:19	05:59 19:52	05:29 20:21
30	07:12 17:11	07:32 (15) 07:45 (15)	06:46 19:20	06:46 19:20	05:58 19:53	05:29 20:22
31	07:11 17:12	07:31 (15) 07:46 (15)	06:44 19:21	06:44 19:21	05:58 20:23	05:28 20:23
Potential sun hours	297	297	369	399	449	453
Total, worst case	60	332	1	343	27	

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: AB - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (28)

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	05:28 20:34	05:52 20:15	06:23 19:32	18:05 (13) 18:21 (13)	06:53 18:41	06:28 16:55
2	05:29 20:34	05:53 20:14	06:24 19:30	18:08 (13) 18:23 (13)	06:54 18:40	06:29 16:53
3	05:29 20:34	05:54 20:13	06:25 19:29	18:11 (13) 18:24 (13)	06:55 18:38	06:30 16:52
4	05:30 20:34	05:55 20:12	06:26 19:27	18:16 (13) 18:26 (13)	06:57 18:36	06:31 16:51
5	05:30 20:34	05:56 20:11	06:27 19:26	18:23 (13) 18:27 (13)	06:58 18:35	06:33 16:50
6	05:31 20:34	05:57 20:10	06:28 19:24	06:28 18:33	06:59 18:31	06:34 16:49
7	05:32 20:33	05:58 20:08	17:45 (13) 19:22	06:29 19:22	07:00 18:31	06:35 16:47
8	05:32 20:33	05:59 20:07	17:45 (13) 19:21	06:30 19:21	07:01 18:30	06:36 16:46
9	05:33 20:33	06:00 20:06	17:45 (13) 19:19	06:31 19:19	07:02 18:28	06:37 16:45
10	05:34 20:32	06:01 20:05	17:46 (13) 19:17	06:32 19:17	07:03 18:27	06:39 16:44
11	05:34 20:32	06:02 20:03	17:46 (13) 19:15	06:33 19:15	07:04 18:25	06:40 16:43
12	05:35 20:31	06:03 20:02	17:46 (13) 19:14	06:34 19:14	07:05 18:23	06:41 16:42
13	05:36 20:31	06:04 20:01	17:46 (13) 19:12	06:35 19:12	07:06 18:22	06:42 16:41
14	05:36 20:30	06:05 19:59	17:47 (13) 19:10	06:36 19:10	07:07 18:20	06:43 16:40
15	05:37 20:30	06:06 19:58	17:47 (13) 19:09	06:37 19:09	07:08 18:19	06:45 16:40
16	05:38 20:29	06:07 19:57	17:48 (13) 19:07	06:38 19:07	07:09 18:17	06:46 16:39
17	05:39 20:28	06:08 19:55	17:48 (13) 19:05	06:39 19:05	07:11 18:16	06:47 16:38
18	05:40 20:28	06:09 19:54	17:49 (13) 19:04	06:40 19:04	07:12 18:14	06:48 16:37
19	05:40 20:27	06:10 19:52	17:49 (13) 19:02	06:41 19:02	07:13 18:12	06:49 16:36
20	05:41 20:26	06:11 19:51	17:50 (13) 19:00	06:42 19:00	07:14 18:11	06:50 16:36
21	05:42 20:26	06:12 19:49	17:51 (13) 18:58	06:43 18:58	07:15 18:10	06:52 16:35
22	05:43 20:25	06:13 19:48	17:51 (13) 18:57	06:44 18:57	07:16 18:08	06:53 16:34
23	05:44 20:24	06:14 19:46	17:52 (13) 18:55	06:45 18:55	07:17 18:07	06:54 16:34
24	05:45 20:23	06:15 19:45	17:53 (13) 18:53	06:46 18:53	07:18 18:05	06:55 16:33
25	05:46 20:22	06:16 19:43	17:54 (13) 18:52	06:47 18:52	07:19 18:04	06:56 16:33
26	05:47 20:21	06:17 19:42	17:55 (13) 18:50	06:48 18:50	07:20 18:03	06:57 16:32
27	05:48 20:20	06:18 19:40	17:56 (13) 18:48	06:49 18:48	07:21 18:02	06:58 16:32
28	05:48 20:19	06:19 19:39	17:58 (13) 18:46	06:50 18:46	07:22 18:01	06:59 16:31
29	05:49 20:19	06:20 19:37	17:59 (13) 18:45	06:51 18:45	07:23 18:00	07:00 16:31
30	05:50 20:17	06:21 19:35	18:01 (13) 18:43	06:52 18:43	07:24 18:00	07:01 16:30
31	05:51 20:16	06:22 19:34	18:03 (13) 18:20 (13)	06:53 18:20	07:25 18:00	07:02 16:30
Potential sun hours	459	428	375	345	298	287
Total, worst case		316	58	115	279	

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: AC - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (29)
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	07:23 16:39 79	07:46 (15) 16:05 (13) 17:13	07:10 17:13 93	14:59 (13) 16:32 (13) 17:48	06:34 17:48 78	15:09 (13) 16:27 (13) 19:22	07:24 (14) 19:54 20:23
2	07:23 16:40 80	07:46 (15) 16:06 (13) 17:15	07:09 17:15 94	14:59 (13) 16:33 (13) 17:49	06:32 17:49 75	15:10 (13) 16:25 (13) 19:23	07:27 (14) 19:55 20:24
3	07:23 16:41 82	07:46 (15) 16:07 (13) 17:16	07:08 17:16 94	14:59 (13) 16:33 (13) 17:50	06:31 17:50 73	15:12 (13) 16:25 (13) 19:24	07:28 (14) 19:54 20:25
4	07:24 16:42 83	07:46 (15) 16:08 (13) 17:17	07:07 17:17 95	14:59 (13) 16:34 (13) 17:51	06:29 17:51 70	15:13 (13) 16:23 (13) 19:25	19:55 20:26 20:26
5	07:24 16:43 84	07:46 (15) 16:09 (13) 17:18	07:06 17:18 95	14:59 (13) 16:34 (13) 17:52	06:27 17:52 67	15:14 (13) 16:21 (13) 19:26	19:56 20:26 20:26
6	07:24 16:44 86	07:46 (15) 16:10 (13) 17:20	07:05 17:20 96	14:58 (13) 16:34 (13) 17:53	06:26 17:53 64	15:16 (13) 16:20 (13) 19:27	19:57 20:27 20:27
7	07:23 16:44 87	07:45 (15) 16:10 (13) 17:21	07:04 17:21 96	14:58 (13) 16:34 (13) 17:54	06:24 17:54 61	15:17 (13) 16:18 (13) 19:28	19:58 20:28 20:28
8	07:23 16:45 89	07:45 (15) 16:11 (13) 17:22	07:02 17:22 95	14:59 (13) 16:34 (13) 17:56	06:23 17:56 58	15:19 (13) 16:17 (13) 19:29	19:59 20:28 20:28
9	07:23 16:46 90	07:45 (15) 16:12 (13) 17:23	07:01 17:23 96	14:59 (13) 16:35 (13) 17:57	06:21 17:57 53	15:21 (13) 16:14 (13) 19:30	20:01 20:29 20:29
10	07:23 16:47 93	07:45 (15) 16:14 (13) 17:25	07:00 17:25 96	14:59 (13) 16:35 (13) 17:58	06:19 17:58 54	15:23 (13) 17:37 (12) 19:31	20:02 20:30 20:30
11	07:23 16:48 94	07:44 (15) 16:14 (13) 17:26	06:59 17:26 95	14:59 (13) 16:34 (13) 17:59	06:18 17:59 52	15:26 (13) 17:38 (12) 19:33	20:03 20:31 20:31
12	07:23 16:50 96	07:44 (15) 16:15 (13) 17:27	06:58 17:27 96	14:59 (13) 16:35 (13) 18:00	06:16 18:00 48	15:29 (13) 17:39 (12) 19:34	20:04 20:32 20:32
13	07:22 16:51 98	07:44 (15) 16:17 (13) 17:28	06:56 17:28 95	15:00 (13) 16:35 (13) 18:01	06:15 18:01 43	15:32 (13) 17:40 (12) 19:35	20:05 20:33 20:33
14	07:22 16:52 98	07:45 (15) 16:17 (13) 17:30	06:55 17:30 95	15:00 (13) 16:35 (13) 18:02	06:13 18:02 35	15:38 (13) 17:42 (12) 19:36	20:06 20:34 20:34
15	07:22 16:53 98	07:46 (15) 16:19 (13) 17:32	06:54 17:32 95	15:00 (13) 16:35 (13) 18:03	06:11 18:03 16	17:26 (12) 17:42 (12) 19:37	20:07 20:35 20:35
16	07:21 16:54 98	07:46 (15) 16:19 (13) 17:33	06:52 17:33 94	15:00 (13) 16:35 (13) 18:05	06:10 18:05 18	17:25 (12) 17:43 (12) 19:38	20:08 20:36 20:36
17	07:21 16:55 98	07:48 (15) 16:21 (13) 17:33	06:51 17:33 94	15:00 (13) 16:34 (13) 18:06	06:08 18:06 19	17:26 (12) 17:45 (12) 19:39	20:09 20:37 20:37
18	07:20 16:56 97	07:49 (15) 16:21 (13) 17:34	06:50 17:34 93	15:01 (13) 16:34 (13) 18:07	06:06 18:07 20	17:25 (12) 17:45 (12) 19:40	20:10 20:38 20:38
19	07:20 16:57 96	07:51 (15) 16:23 (13) 17:36	06:48 17:36 92	15:02 (13) 16:34 (13) 18:08	06:05 18:08 18	17:26 (12) 17:44 (12) 19:41	20:11 20:39 20:39
20	07:19 16:59 95	07:52 (15) 16:23 (13) 17:37	06:47 17:37 91	15:02 (13) 16:33 (13) 18:09	06:03 18:09 16	17:26 (12) 17:42 (12) 19:42	20:12 20:40 20:40
21	07:18 17:00 93	07:54 (15) 16:24 (13) 17:38	06:46 17:38 90	15:03 (13) 16:33 (13) 18:10	06:01 18:10 13	17:28 (12) 17:41 (12) 19:43	20:13 20:41 20:41
22	07:18 17:01 85	07:59 (15) 16:25 (13) 17:39	06:44 17:39 89	15:03 (13) 16:32 (13) 18:11	06:00 18:11 8	17:30 (12) 17:38 (12) 19:44	20:14 20:42 20:42
23	07:17 17:02 85	15:01 (13) 16:26 (13) 17:41	06:43 17:41 88	15:04 (13) 16:32 (13) 18:12	05:58 18:12 3	06:08 19:45 19:45	20:15 20:43 20:43
24	07:17 17:03 86	15:01 (13) 16:27 (13) 17:42	06:41 17:42 87	15:04 (13) 16:31 (13) 18:13	05:56 18:13 4	06:06 19:46 19:46	20:16 20:44 20:44
25	07:16 17:05 87	15:00 (13) 16:27 (13) 17:43	06:40 17:43 85	15:05 (13) 16:30 (13) 18:14	05:54 18:14 3	06:05 19:47 19:47	20:17 20:45 20:45
26	07:15 17:06 88	15:01 (13) 16:29 (13) 17:44	06:38 17:44 83	15:06 (13) 16:29 (13) 18:15	05:53 18:15 3	06:15 (14) 06:18 (14) 19:49	20:18 20:46 20:46
27	07:14 17:07 89	15:00 (13) 16:29 (13) 17:45	06:37 17:45 82	15:07 (13) 16:29 (13) 18:16	05:51 18:16 3	06:18 (14) 06:21 (14) 19:50	20:19 20:47 20:47
28	07:13 17:08 90	15:00 (13) 16:30 (13) 17:46	06:35 17:46 79	15:08 (13) 16:27 (13) 18:18	05:49 18:18 4	06:19 (14) 06:23 (14) 19:51	20:20 20:48 20:48
29	07:13 17:10 90	15:00 (13) 16:30 (13)	06:48 19:19	06:48 19:19	4	07:20 (14) 07:24 (14) 19:52	20:21 20:49 20:49
30	07:12 17:11 91	15:00 (13) 16:31 (13)	06:46 19:20	06:46 19:20	4	07:22 (14) 07:26 (14) 19:53	20:22 20:50 20:50
31	07:11 17:12 93	14:59 (13) 16:32 (13)	06:44 19:21	06:44 19:21	3	07:23 (14) 07:26 (14)	20:23 20:51 20:51
Potential sun hours	297	297	369	399	449	453	
Total, worst case	2798	2574	980	3			

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

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

Shadow receptor: AC - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (29)

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	05:28	05:52	06:23	06:53	16:09 (13)	06:28	14:28 (13)	07:03	07:26 (15)
	20:34	20:15	19:32	18:41	18:18 (12)	16:55	16:04 (13)	16:30	15:56 (13)
2	05:29	05:53	06:24	06:54	16:06 (13)	06:29	14:29 (13)	07:04	07:28 (15)
	20:34	20:14	19:30	18:40	18:17 (12)	16:53	16:05 (13)	16:30	15:57 (13)
3	05:29	05:54	06:25	06:55	16:03 (13)	06:30	14:28 (13)	07:05	07:29 (15)
	20:34	20:13	19:29	18:38	18:16 (12)	16:52	16:04 (13)	16:29	15:57 (13)
4	05:30	05:55	06:26	06:57	16:00 (13)	06:31	14:28 (13)	07:06	07:30 (15)
	20:34	20:12	19:27	18:36	18:14 (12)	16:51	16:04 (13)	16:29	15:56 (13)
5	05:30	05:56	06:27	06:58	15:57 (13)	06:33	14:28 (13)	07:07	07:31 (15)
	20:34	20:11	19:26	18:35	16:53 (13)	16:50	16:03 (13)	16:29	15:56 (13)
6	05:31	05:57	06:28	06:59	15:55 (13)	06:34	14:29 (13)	07:08	07:32 (15)
	20:34	20:10	19:24	18:33	16:54 (13)	16:49	16:04 (13)	16:29	15:56 (13)
7	05:32	05:58	06:29	07:00	15:52 (13)	06:35	14:29 (13)	07:09	07:33 (15)
	20:33	20:08	19:22	18:31	16:55 (13)	16:47	16:03 (13)	16:29	15:56 (13)
8	05:32	05:59	06:30	07:01	15:50 (13)	06:36	14:29 (13)	07:10	07:33 (15)
	20:33	20:07	19:21	18:30	16:56 (13)	16:46	16:03 (13)	16:29	15:55 (13)
9	05:33	06:00	06:31	07:02	15:48 (13)	06:37	14:30 (13)	07:11	07:34 (15)
	20:33	20:06	19:19	18:28	16:57 (13)	16:45	16:03 (13)	16:29	15:55 (13)
10	05:34	06:01	06:32	07:03	15:46 (13)	06:39	14:30 (13)	07:11	07:35 (15)
	20:32	20:05	19:17	18:27	16:58 (13)	16:44	16:03 (13)	16:29	15:55 (13)
11	05:34	06:02	06:33	07:18 (14)	07:04	15:44 (13)	14:30 (13)	07:12	07:36 (15)
	20:32	20:03	19:15	18:25	16:59 (13)	16:43	16:02 (13)	16:29	15:55 (13)
12	05:35	06:03	06:34	07:16 (14)	07:05	15:43 (13)	14:31 (13)	07:13	07:37 (15)
	20:31	20:02	19:14	18:23	16:59 (13)	16:42	16:02 (13)	16:29	15:55 (13)
13	05:36	06:04	06:35	07:14 (14)	07:06	15:41 (13)	14:32 (13)	07:14	07:38 (15)
	20:31	20:01	19:12	18:22	17:00 (13)	16:41	16:02 (13)	16:29	15:55 (13)
14	05:36	06:05	06:36	07:11 (14)	07:07	15:41 (13)	14:32 (13)	07:15	07:38 (15)
	20:30	19:59	19:10	18:20	17:01 (13)	16:40	16:02 (13)	16:29	15:54 (13)
15	05:37	06:06	06:37	07:08 (14)	07:08	15:39 (13)	14:32 (13)	07:15	07:39 (15)
	20:30	19:58	19:09	18:19	17:02 (13)	16:40	16:01 (13)	16:30	15:55 (13)
16	05:38	06:07	06:38	07:06 (14)	07:09	15:38 (13)	14:34 (13)	07:16	07:40 (15)
	20:29	19:57	19:07	18:17	17:02 (13)	16:39	16:02 (13)	16:30	15:55 (13)
17	05:39	06:08	06:39	07:04 (14)	07:11	15:36 (13)	14:34 (13)	07:17	07:40 (15)
	20:28	19:55	19:05	18:16	17:02 (13)	16:38	16:01 (13)	16:30	15:55 (13)
18	05:40	06:09	06:40	07:12 (14)	07:12	15:35 (13)	14:35 (13)	07:18	07:41 (15)
	20:28	19:54	19:04	18:14	17:02 (13)	16:37	16:01 (13)	16:30	15:56 (13)
19	05:40	06:10	06:41	07:13 (14)	07:13	15:34 (13)	14:35 (13)	07:18	07:42 (15)
	20:27	19:52	19:02	18:12	17:03 (13)	16:36	16:00 (13)	16:31	15:56 (13)
20	05:41	06:11	06:42	07:14 (14)	07:14	15:34 (13)	07:34 (15)	07:19	07:42 (15)
	20:26	19:51	19:00	18:11	17:04 (13)	16:36	16:00 (13)	16:31	15:56 (13)
21	05:42	06:12	06:43	18:17 (12)	07:15	15:33 (13)	07:30 (15)	07:19	07:43 (15)
	20:26	19:49	18:58	18:22 (12)	18:10	17:04 (13)	16:35	16:32	15:57 (13)
22	05:43	06:13	06:44	18:13 (12)	07:16	15:32 (13)	07:28 (15)	07:20	07:43 (15)
	20:25	19:48	18:57	18:25 (12)	18:08	17:04 (13)	16:34	16:32	15:57 (13)
23	05:44	06:14	06:45	18:11 (12)	07:17	15:31 (13)	07:27 (15)	07:20	07:44 (15)
	20:24	19:46	18:55	18:26 (12)	18:07	17:04 (13)	16:34	16:33	15:58 (13)
24	05:45	06:15	06:46	18:09 (12)	07:18	15:30 (13)	07:26 (15)	07:21	07:44 (15)
	20:23	19:45	18:53	18:27 (12)	18:05	17:04 (13)	16:33	16:33	15:58 (13)
25	05:46	06:16	06:47	18:08 (12)	06:20	14:31 (13)	07:26 (15)	07:21	07:44 (15)
	20:22	19:43	18:52	18:28 (12)	17:04	16:05 (13)	16:33	16:34	15:58 (13)
26	05:47	06:17	06:48	18:07 (12)	06:21	14:30 (13)	07:25 (15)	07:22	07:45 (15)
	20:21	19:42	18:50	18:27 (12)	17:02	16:04 (13)	16:32	16:34	16:00 (13)
27	05:48	06:18	06:49	18:07 (12)	06:22	14:29 (13)	07:25 (15)	07:22	07:45 (15)
	20:20	19:40	18:48	18:25 (12)	17:01	16:04 (13)	16:32	16:35	16:00 (13)
28	05:48	06:19	06:50	18:06 (12)	06:23	14:29 (13)	07:25 (15)	07:22	07:45 (15)
	20:19	19:39	18:46	18:24 (12)	17:00	16:04 (13)	16:31	16:36	16:01 (13)
29	05:49	06:20	06:51	16:21 (13)	06:24	14:29 (13)	07:25 (15)	07:23	07:45 (15)
	20:19	19:37	18:45	18:22 (12)	16:58	16:05 (13)	16:31	16:36	16:01 (13)
30	05:50	06:21	06:52	16:14 (13)	06:25	14:29 (13)	07:25 (15)	07:23	07:46 (15)
	20:17	19:35	18:43	18:20 (12)	16:57	16:05 (13)	16:30	16:37	16:03 (13)
31	05:51	06:22		06:27		14:28 (13)		07:23	07:46 (15)
	20:16	19:34		16:56	96	16:04 (13)		16:38	16:04 (13)
Potential sun hours	459	428	375	345	298	278	287	2401	
Total, worst case			220	2450	2798				

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: AD - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (30)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	07:05 16:29
4	07:23 16:42	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:26 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	07:06 16:29
5	07:23 16:42	07:06 17:18	06:27 17:52	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:25	06:57 18:35	06:32 16:50	07:07 16:29
6	07:23 16:43	07:05 17:20	06:26 17:53	06:34 19:27	05:50 19:59	05:26 20:27	05:31 20:33	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	07:08 16:29
7	07:23 16:44	07:03 17:21	06:24 17:54	06:33 19:28	05:49 20:00	05:25 20:28	05:32 20:33	05:58 20:08	06:29 19:22	07:00 18:31	06:35 16:47	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:20	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:32	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:19 17:58	06:28 19:31	05:46 20:03	05:25 20:29	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:26	06:38 16:44	07:11 16:29
11	07:23 16:48	06:59 17:26	06:18 17:59	06:26 19:32	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	07:12 16:29
12	07:22 16:49	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:30	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:14 18:01	06:23 19:35	05:42 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:41 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:21 16:53	06:54 17:31	06:11 18:03	06:20 19:37	05:40 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:44 16:39	07:15 16:29
16	07:21 16:54	06:52 17:32	06:10 18:04	06:18 19:38	05:39 20:09	05:24 20:32	05:38 20:29	06:07 19:56	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33	05:40 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:17 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:33	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:19 16:31
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	05:59 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:16 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:51	06:19 17:04	06:56 16:32	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:48	05:31 20:19	05:26 20:34	05:47 20:21	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19	05:27 20:35	05:47 20:20	06:18 19:40	06:49 18:48	06:22 17:01	06:58 16:31	07:22 16:35
28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:19	06:19 19:38	06:50 18:46	06:23 17:00	06:59 16:31	07:22 16:36
29	07:12 17:10		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35	05:49 20:18	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:22 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:34	05:50 20:17	06:21 19:35	06:52 18:43	06:25 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:44 19:21		05:28 20:23		05:51 20:16	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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: AE - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (31)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:28 20:34	05:52 20:15	06:23 18:32	06:53 18:41	06:28 16:54	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	07:05 16:29
4	07:23 16:42	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:26 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	07:06 16:29
5	07:23 16:42	07:06 17:18	06:27 17:52	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:25	06:57 18:35	06:32 16:50	07:07 16:29
6	07:23 16:43	07:05 17:20	06:26 17:53	06:34 19:27	05:50 19:59	05:26 20:27	05:31 20:33	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	07:08 16:29
7	07:23 16:44	07:03 17:21	06:24 17:54	06:33 19:28	05:49 20:00	05:25 20:28	05:31 20:33	05:58 20:08	06:29 19:22	07:00 18:31	06:35 16:47	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:20	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:32	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
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11	07:23 16:48	06:59 17:26	06:18 17:59	06:26 19:32	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	07:12 16:29
12	07:22 16:49	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:30	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:14 18:01	06:23 19:35	05:42 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:41 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:21 16:53	06:54 17:31	06:11 18:03	06:20 19:37	05:40 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:44 16:39	07:15 16:29
16	07:21 16:54	06:52 17:32	06:10 18:04	06:18 19:38	05:39 20:09	05:24 20:32	05:38 20:29	06:07 19:56	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33	05:40 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:17 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:33	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:19 16:31
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28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:19	06:19 19:38	06:50 18:46	06:23 17:00	06:59 16:31	07:22 16:36
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31	07:11 17:12		06:44 19:21		05:28 20:23		05:51 20:16	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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: AF - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (32)

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	07:23	07:10	06:34	06:43	05:57	05:28	05:28	05:52	06:23	06:53	06:28	07:03
	16:39	17:13	17:48	17:22	19:54	20:23	20:34	20:15	19:32	18:41	16:54	16:30
2	07:23	07:09	06:32	06:41	05:55	05:27	05:29	05:53	06:24	06:54	06:29	07:04
	16:40	17:15	17:49	19:23	19:55	20:24	20:34	20:14	19:30	18:40	16:53	16:30
3	07:23	07:08	06:31	06:39	05:54	05:27	05:29	05:54	06:25	06:55	06:30	07:05
	16:41	17:16	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:38	16:52	16:29
4	07:23	07:07	06:29	06:38	05:53	05:26	05:30	05:55	06:26	06:56	06:31	07:06
	16:42	17:17	17:51	19:25	19:57	20:26	20:34	20:12	19:27	18:36	16:51	16:29
5	07:23	07:06	06:27	06:36	05:52	05:26	05:30	05:56	06:27	06:57	06:32	07:07
	16:42	17:18	17:52	19:26	19:58	20:26	20:34	20:11	19:25	18:35	16:50	16:29
6	07:23	07:05	06:26	06:34	05:50	05:26	05:31	05:57	06:28	06:59	06:34	07:08
	16:43	17:20	17:53	19:27	19:59	20:27	20:33	20:10	19:24	18:33	16:49	16:29
7	07:23	07:03	06:24	06:33	05:49	05:25	05:31	05:58	06:29	07:00	06:35	07:09
	16:44	17:21	17:54	19:28	20:00	20:28	20:33	20:08	19:22	18:31	16:47	16:29
8	07:23	07:02	06:23	06:31	05:48	05:25	05:32	05:59	06:30	07:01	06:36	07:10
	16:45	17:22	17:56	19:29	20:01	20:28	20:33	20:07	19:20	18:30	16:46	16:29
9	07:23	07:01	06:21	06:30	05:47	05:25	05:33	06:00	06:31	07:02	06:37	07:11
	16:46	17:23	17:57	19:30	20:02	20:29	20:32	20:06	19:19	18:28	16:45	16:29
10	07:23	07:00	06:19	06:28	05:46	05:25	05:33	06:01	06:32	07:03	06:38	07:11
	16:47	17:25	17:58	19:31	20:03	20:29	20:32	20:05	19:17	18:26	16:44	16:29
11	07:23	06:59	06:18	06:26	05:45	05:25	05:34	06:02	06:33	07:04	06:40	07:12
	16:48	17:26	17:59	19:32	20:04	20:30	20:32	20:03	19:15	18:25	16:43	16:29
12	07:22	06:58	06:16	06:25	05:44	05:25	05:35	06:03	06:34	07:05	06:41	07:13
	16:49	17:27	18:00	19:34	20:05	20:30	20:31	20:02	19:14	18:23	16:42	16:29
13	07:22	06:56	06:14	06:23	05:42	05:24	05:36	06:04	06:35	07:06	06:42	07:14
	16:51	17:28	18:01	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:41	16:29
14	07:22	06:55	06:13	06:22	05:41	05:24	05:36	06:05	06:36	07:07	06:43	07:15
	16:52	17:30	18:02	19:36	20:07	20:31	20:30	19:59	19:10	18:20	16:40	16:29
15	07:21	06:54	06:11	06:20	05:40	05:24	05:37	06:06	06:37	07:08	06:44	07:15
	16:53	17:31	18:03	19:37	20:08	20:32	20:30	19:58	19:09	18:19	16:39	16:29
16	07:21	06:52	06:10	06:18	05:39	05:24	05:38	06:07	06:38	07:09	06:46	07:16
	16:54	17:32	18:04	19:38	20:09	20:32	20:29	19:56	19:07	18:17	16:39	16:30
17	07:21	06:51	06:08	06:17	05:39	05:24	05:39	06:08	06:39	07:10	06:47	07:17
	16:55	17:33	18:06	19:39	20:10	20:33	20:28	19:55	19:05	18:15	16:38	16:30
18	07:20	06:50	06:06	06:15	05:38	05:24	05:40	06:09	06:40	07:12	06:48	07:17
	16:56	17:34	18:07	19:40	20:11	20:33	20:28	19:54	19:03	18:14	16:37	16:30
19	07:20	06:48	06:05	06:14	05:37	05:25	05:40	06:10	06:41	07:13	06:49	07:18
	16:57	17:36	18:08	19:41	20:12	20:33	20:27	19:52	19:02	18:12	16:36	16:31
20	07:19	06:47	06:03	06:12	05:36	05:25	05:41	06:11	06:42	07:14	06:50	07:19
	16:59	17:37	18:09	19:42	20:13	20:33	20:26	19:51	19:00	18:11	16:36	16:31
21	07:18	06:46	06:01	06:11	05:35	05:25	05:42	06:12	06:43	07:15	06:52	07:19
	17:00	17:38	18:10	19:43	20:14	20:34	20:26	19:49	18:58	18:09	16:35	16:32
22	07:18	06:44	05:59	06:09	05:34	05:25	05:43	06:13	06:44	07:16	06:53	07:20
	17:01	17:39	18:11	19:44	20:15	20:34	20:25	19:48	18:57	18:08	16:34	16:32
23	07:17	06:43	05:58	06:08	05:33	05:25	05:44	06:14	06:45	07:17	06:54	07:20
	17:02	17:40	18:12	19:45	20:16	20:34	20:24	19:46	18:55	18:07	16:34	16:33
24	07:16	06:41	05:56	06:06	05:33	05:26	05:45	06:15	06:46	07:18	06:55	07:21
	17:03	17:42	18:13	19:46	20:17	20:34	20:23	19:45	18:53	18:05	16:33	16:33
25	07:16	06:40	05:54	06:05	05:32	05:26	05:46	06:16	06:47	06:19	06:56	07:21
	17:05	17:43	18:14	19:47	20:18	20:34	20:22	19:43	18:51	17:04	16:32	16:34
26	07:15	06:38	05:53	06:04	05:31	05:26	05:47	06:17	06:48	06:21	06:57	07:22
	17:06	17:44	18:15	19:48	20:19	20:34	20:21	19:42	18:50	17:02	16:32	16:34
27	07:14	06:37	05:51	06:02	05:31	05:26	05:47	06:18	06:49	06:22	06:58	07:22
	17:07	17:45	18:16	19:50	20:19	20:35	20:20	19:40	18:48	17:01	16:31	16:35
28	07:13	06:35	05:49	06:01	05:30	05:27	05:48	06:19	06:50	06:23	06:59	07:22
	17:08	17:46	18:17	19:51	20:20	20:35	20:19	19:38	18:46	17:00	16:31	16:36
29	07:12		06:48	05:59	05:29	05:27	05:49	06:20	06:51	06:24	07:01	07:22
	17:10		19:19	19:52	20:21	20:35	20:18	19:37	18:45	16:58	16:31	16:36
30	07:12		06:46	05:58	05:29	05:28	05:50	06:21	06:52	06:25	07:02	07:23
	17:11		19:20	19:53	20:22	20:34	20:17	19:35	18:43	16:57	16:30	16:37
31	07:11		06:44		05:28		05:51	06:22		06:27		07:23
	17:12		19:21		20:23		20:16	19:34		16:56		16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Total, worst case												

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: AG - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (33)

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

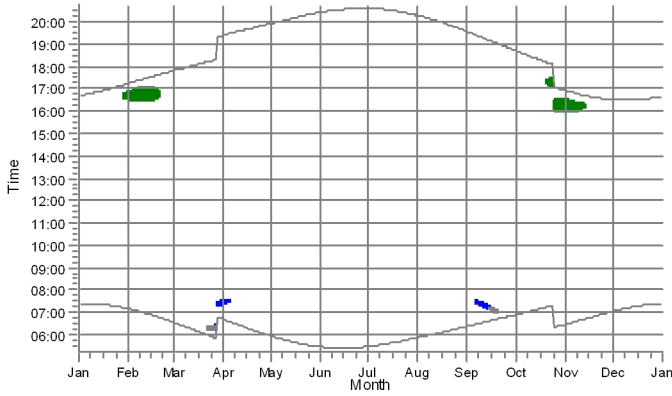
	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	07:03 16:30
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13	07:22 16:51	06:56 17:28	06:14 18:01	06:23 19:35	05:42 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
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17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	07:17 16:30
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19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:33	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:19 16:31
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	05:59 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:16 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:51	06:20 17:04	06:56 16:32	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:48	05:31 20:19	05:26 20:34	05:47 20:21	06:17 19:42	06:48 18:50	06:21 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19	05:27 20:35	05:47 20:20	06:18 19:40	06:49 18:48	06:22 17:01	06:58 16:31	07:22 16:35
28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:19	06:19 19:38	06:50 18:46	06:23 17:00	06:59 16:31	07:22 16:36
29	07:12 17:10		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35	05:49 20:18	06:20 19:37	06:51 18:45	06:24 16:58	07:01 16:31	07:22 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:34	05:50 20:17	06:21 19:35	06:52 18:43	06:25 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:44 19:21		05:28 20:23		05:51 20:16	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours Total, worst case	297	297	369	399	449	453	459	428	375	345	298	287

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

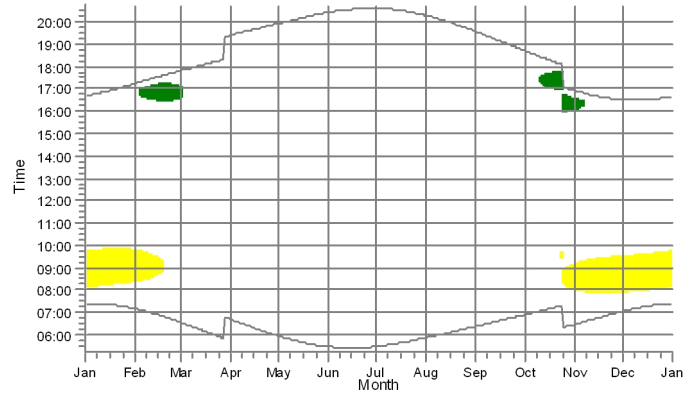
Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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SHADOW - Calendar, graphical

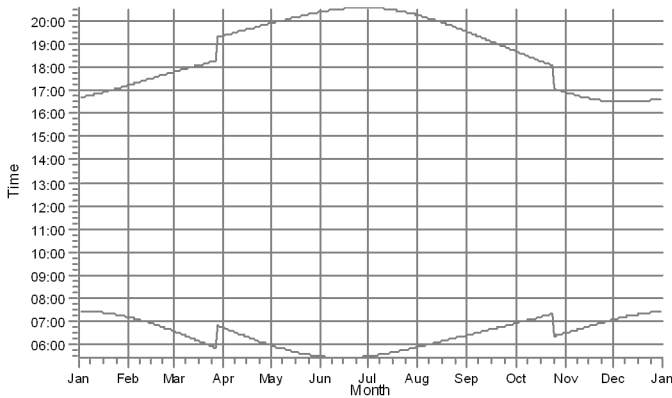
A: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (1)



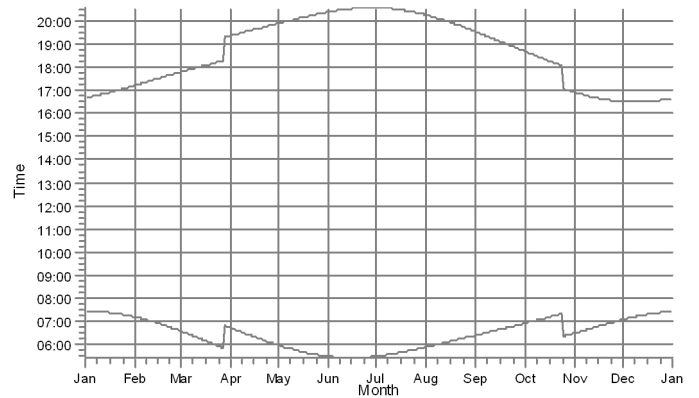
B: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (2)



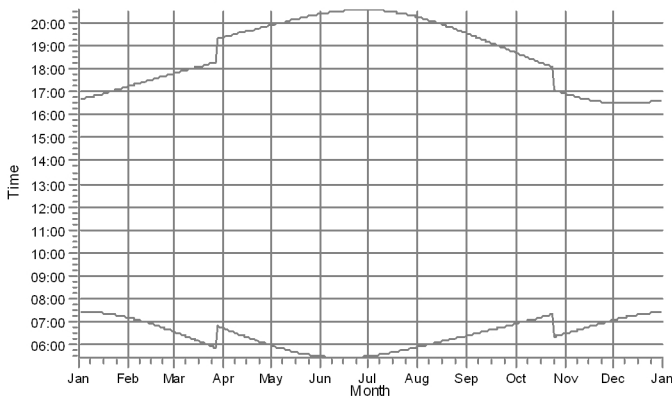
C: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (3)



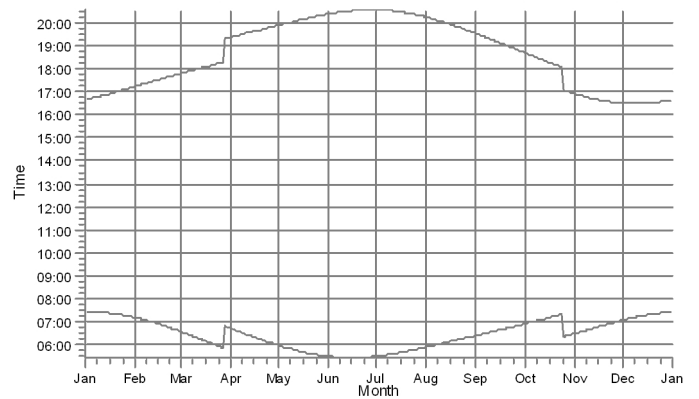
D: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (4)



E: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (5)



F: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (6)



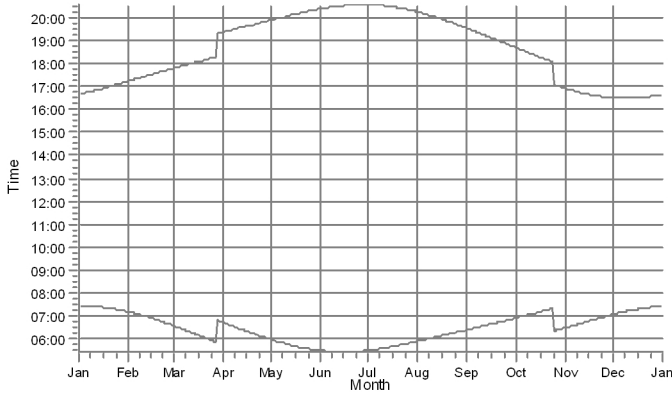
WTGs

- 1: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (1)
- 2: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (2)

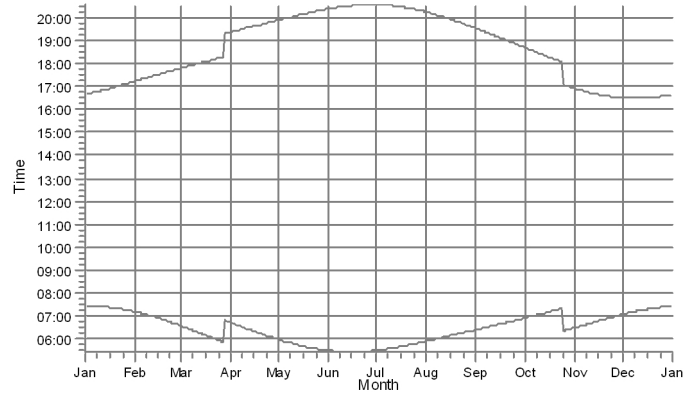
- 3: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (3)
- 4: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (4)

SHADOW - Calendar, graphical

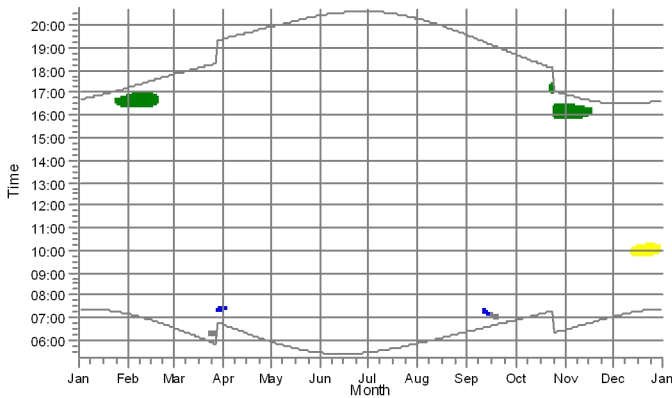
G: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (7)



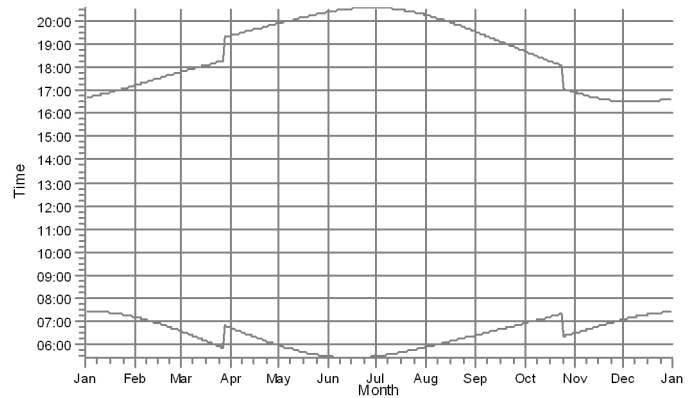
H: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (8)



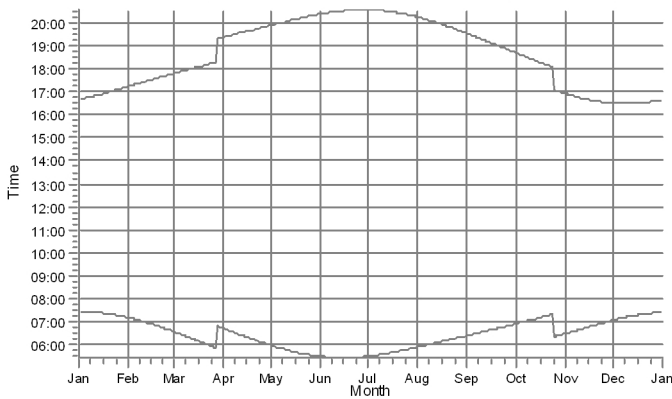
I: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (9)



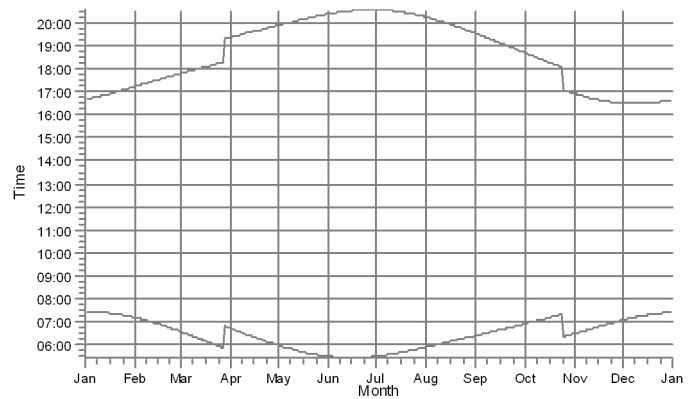
J: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (10)



K: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (11)



L: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (12)



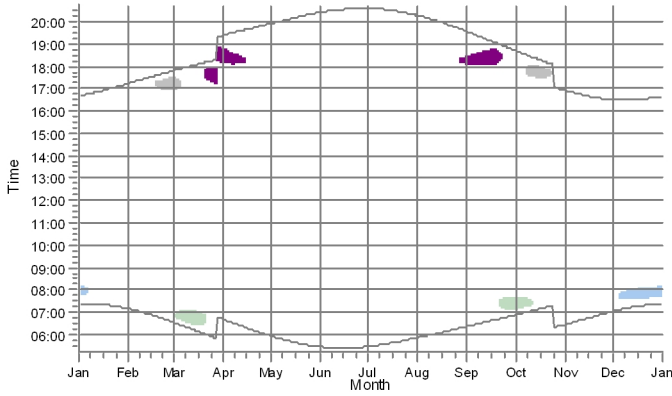
WTGs

- 1: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (1)
- 2: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (2)

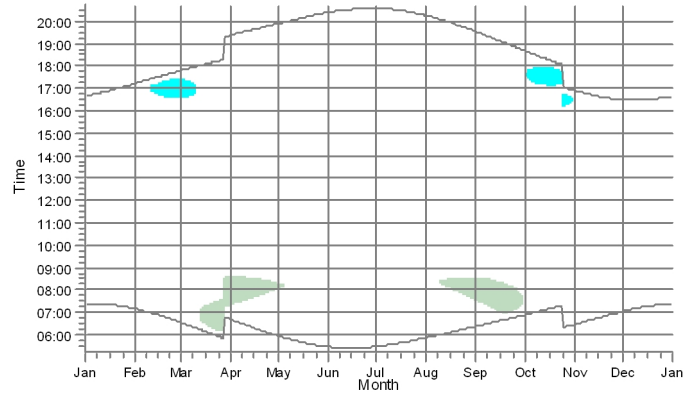
- 3: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (3)
- 4: VESTAS V172 7200 172.0 !OI! hub: 114,0 m (TOT: 200,0 m) (4)

SHADOW - Calendar, graphical

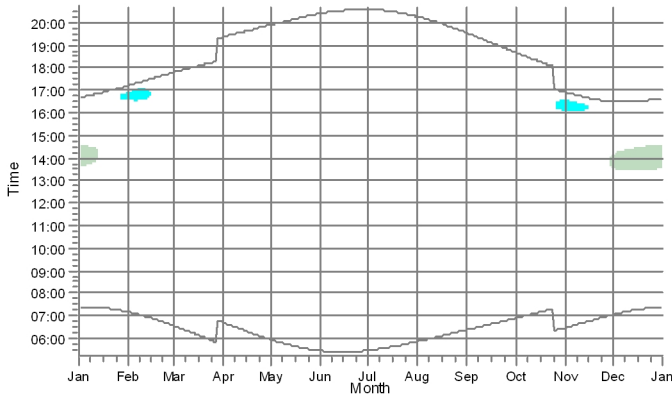
M: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (13)



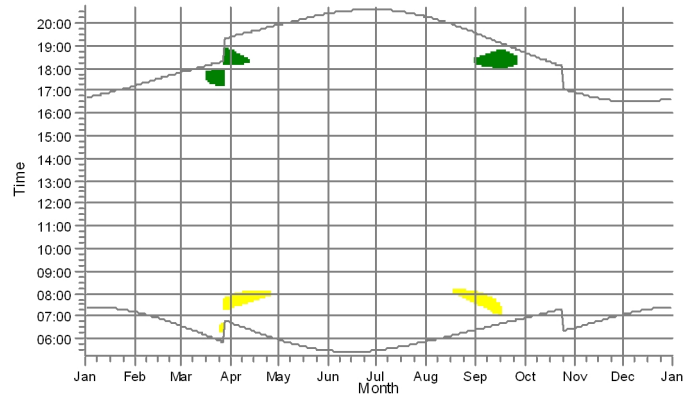
N: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (14)



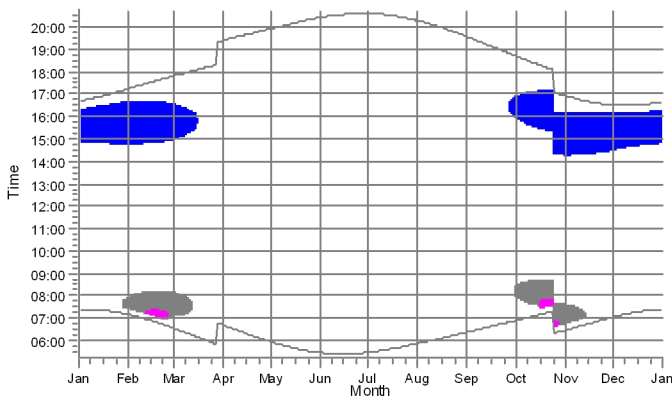
O: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (15)



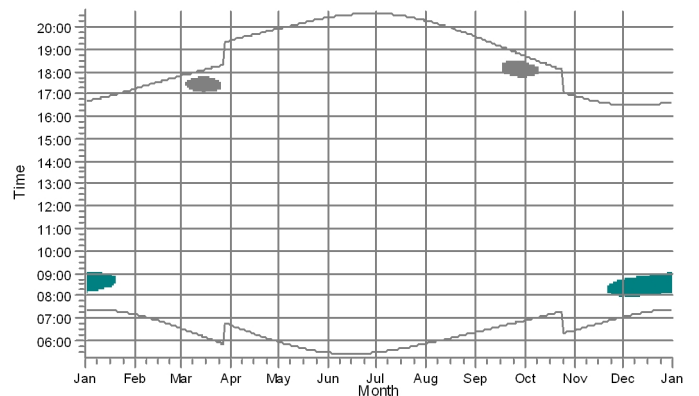
P: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (16)



Q: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (17)



R: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (18)



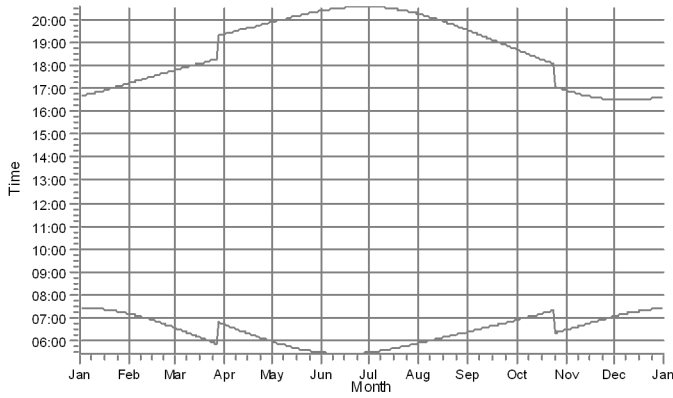
WTGs

- 1: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (1)
- 2: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (2)
- 3: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (3)
- 4: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (4)
- 5: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (5)
- 6: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (6)

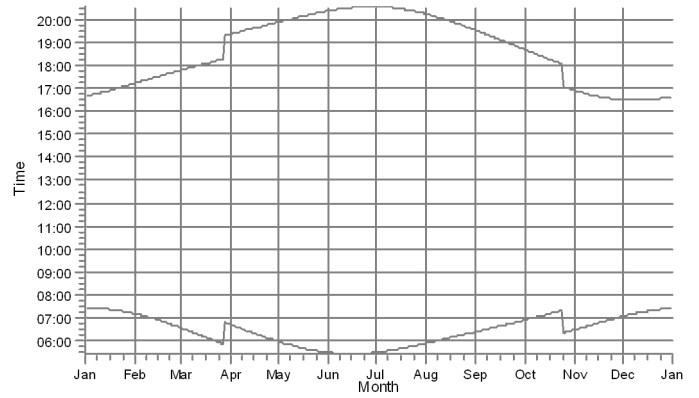
- 11: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (11)
- 12: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (12)
- 13: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (13)
- 14: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (14)
- 15: VESTAS V172 7200 172.0 IO! hub: 114,0 m (TOT: 200,0 m) (15)

SHADOW - Calendar, graphical

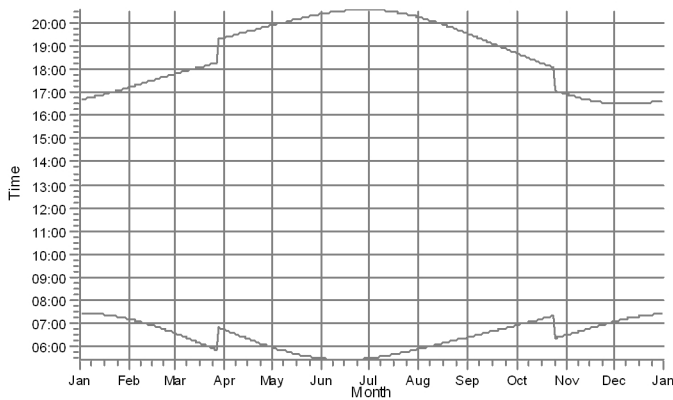
S: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (19)



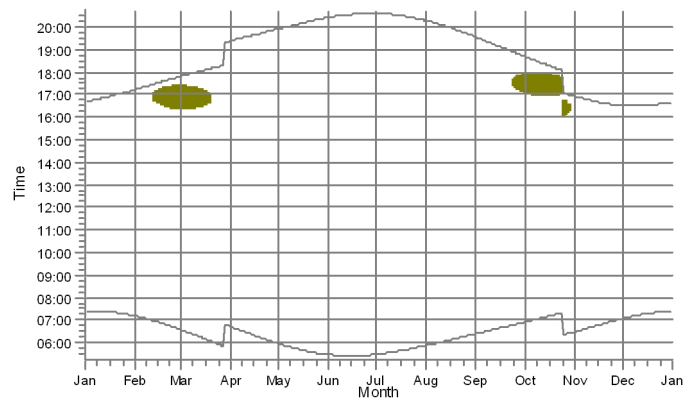
T: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (20)



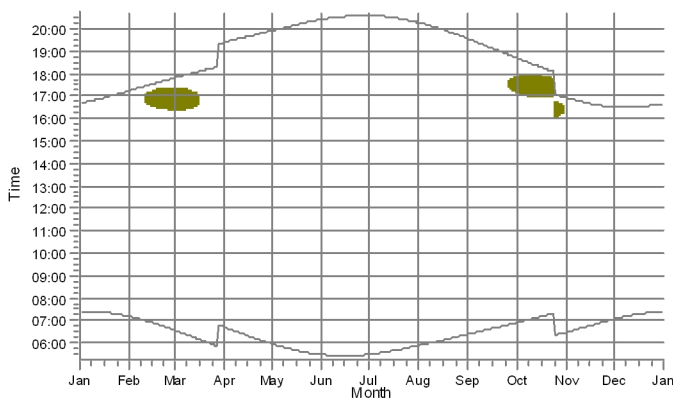
U: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (21)



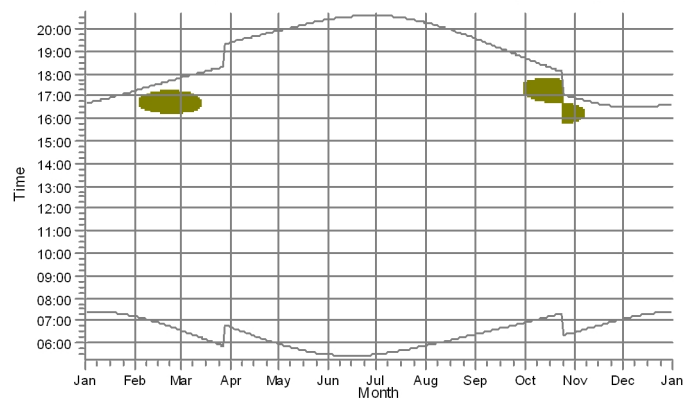
V: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (22)



W: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (23)



X: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (24)

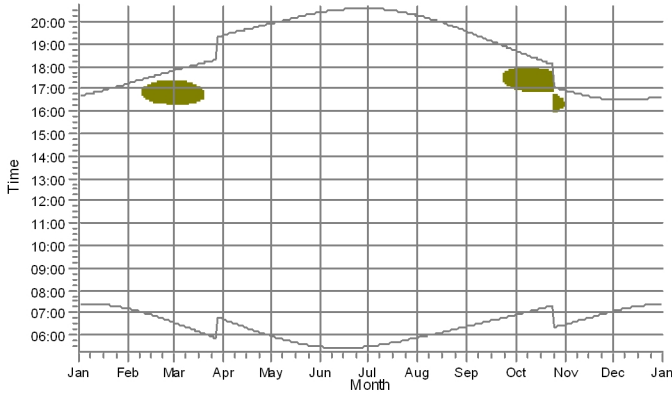


WTGs

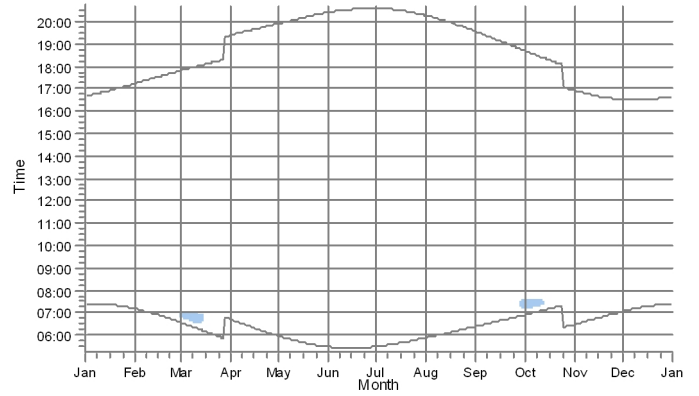
10: VESTAS V172 7200 172.0 !OI hub: 114,0 m (TOT: 200,0 m) (10)

SHADOW - Calendar, graphical

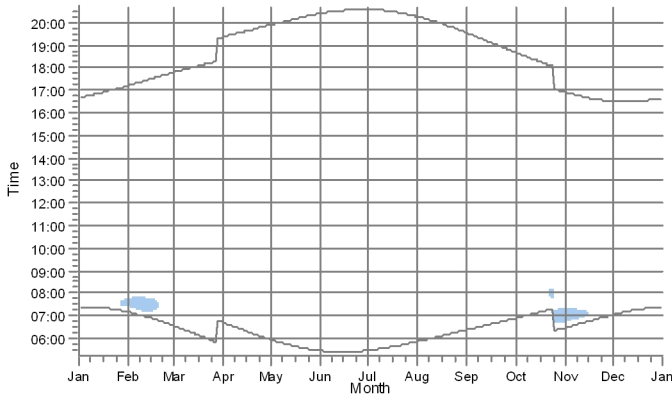
Y: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (25)



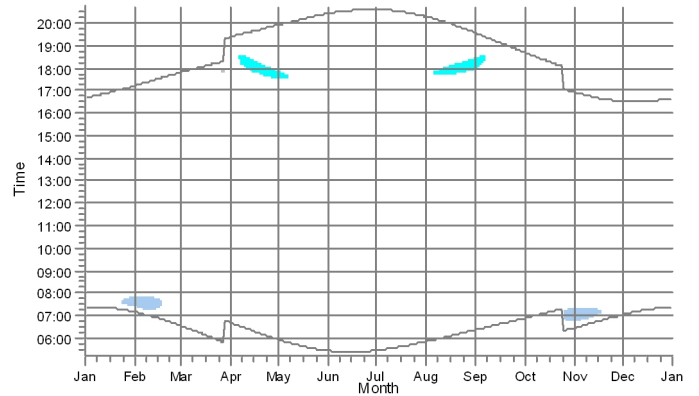
Z: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (26)



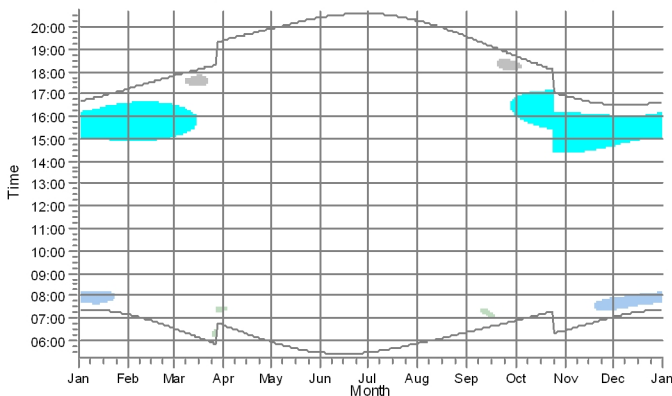
AA: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (27)



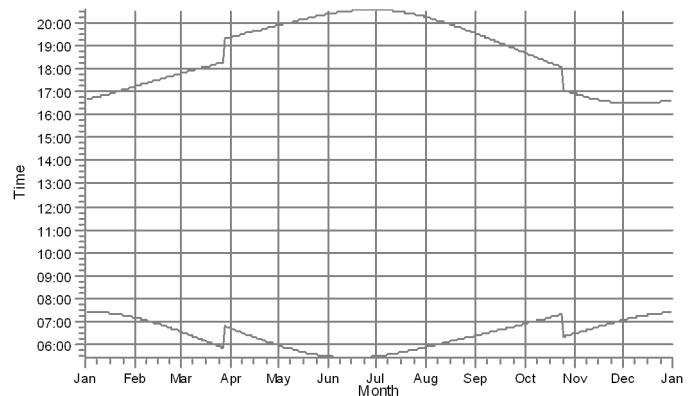
AB: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (28)



AC: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (29)



AD: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (30)



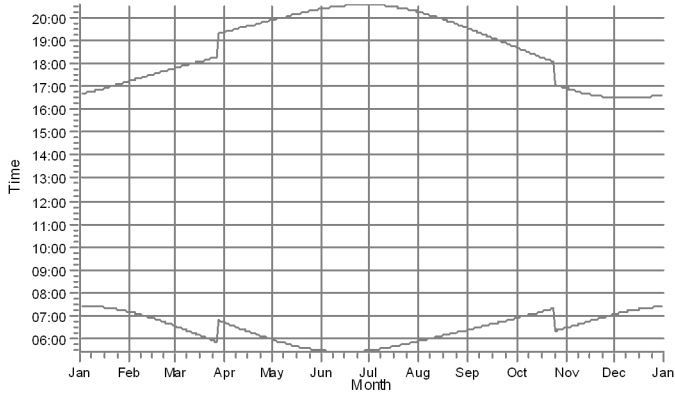
WTGs

- 10: VESTAS V172 7200 172.0 !OI hub: 114,0 m (TOT: 200,0 m) (10)
- 12: VESTAS V172 7200 172.0 !OI hub: 114,0 m (TOT: 200,0 m) (12)
- 13: VESTAS V172 7200 172.0 !OI hub: 114,0 m (TOT: 200,0 m) (13)

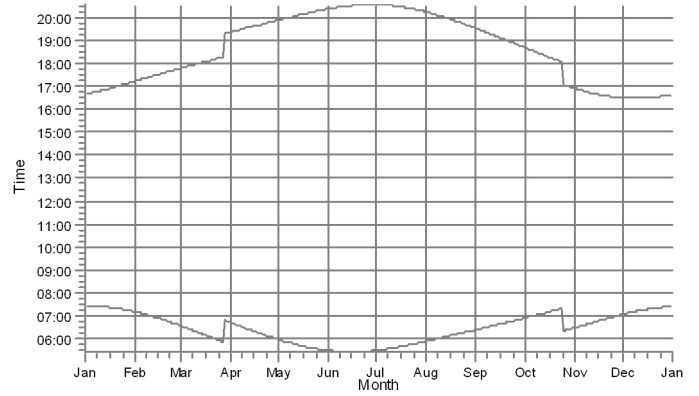
- 14: VESTAS V172 7200 172.0 !OI hub: 114,0 m (TOT: 200,0 m) (14)
- 15: VESTAS V172 7200 172.0 !OI hub: 114,0 m (TOT: 200,0 m) (15)

SHADOW - Calendar, graphical

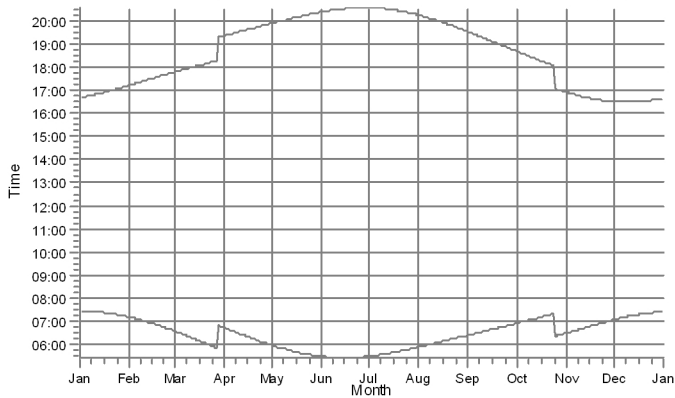
AE: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (31)



AF: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (32)



AG: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (33)



WTGs

SHADOW - Calendar per WTG

WTG: 1 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (1)

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	07:23 16:39	07:10 16:25-16:49/24 17:13	06:34 16:40-17:00/20 17:48	06:43 18:12-18:43/31 19:22	05:57 19:54	05:28 20:24
2	07:24 16:40	07:09 16:25-16:51/26 17:15	06:32 16:42-16:56/14 17:49	06:41 18:12-18:41/29 19:23	05:56 19:55	05:27 20:24
3	07:24 16:41	07:08 16:25-16:52/27 17:16	06:31 17:50	06:40 18:12-18:39/27 19:24	05:54 19:56	05:27 20:25
4	07:24 16:42	07:07 16:24-16:54/30 17:17	06:29 17:51	06:38 18:12-18:36/24 19:25	05:53 19:57	05:27 20:26
5	07:24 16:43	07:06 16:24-16:55/31 17:18	06:28 17:52	06:36 18:12-18:35/23 19:26	05:52 19:58	05:26 20:27
6	07:24 16:44	07:05 16:24-16:57/33 17:20	06:26 17:53	06:35 18:12-18:33/21 19:27	05:51 19:59	05:26 20:27
7	07:24 16:44	07:04 16:24-16:57/33 17:21	06:24 17:55	06:33 18:12-18:30/18 19:28	05:49 20:00	05:26 20:28
8	07:24 16:45	07:03 16:24-16:59/35 17:22	06:23 17:56	06:31 18:13-18:29/16 19:29	05:48 20:01	05:25 20:29
9	07:23 16:46	07:01 16:24-17:00/36 17:23	06:21 17:57	06:30 18:14-18:26/12 19:31	05:47 20:02	05:25 20:29
10	07:23 16:48	07:00 16:25-17:02/37 17:25	06:20 17:58	06:28 18:15-18:25/10 19:32	05:46 20:03	05:25 20:30
11	07:23 16:49	06:59 16:25-17:03/38 17:26	06:18 17:59	06:26 18:16-18:22/6 19:33	05:45 20:04	05:25 20:30
12	07:23 16:50	06:58 16:25-17:04/39 17:27	06:16 18:00	06:25 18:17-18:20/3 19:34	05:44 20:06	05:25 20:31
13	07:22 16:51	06:57 16:26-17:06/40 17:28	06:15 18:01	06:23 19:35	05:43 20:07	05:25 20:31
14	07:22 16:52	06:55 16:27-17:07/40 17:30	06:13 18:02	06:22 19:36	05:42 20:08	05:24 20:32
15	07:22 16:53	06:54 16:28-17:08/40 17:31	06:11 18:04	06:20 19:37	05:41 20:09	05:24 20:32
16	07:21 16:54	06:53 16:29-17:09/40 17:32	06:10 18:05	06:19 19:38	05:40 20:10	05:24 20:32
17	07:21 16:55	06:51 16:31-17:10/39 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33
18	07:20 16:56	06:50 16:32-17:09/37 17:35	06:06 17:32-17:46/14 18:07	06:16 19:40	05:38 20:11	05:25 20:33
19	07:20 16:58	06:49 16:32-17:10/38 17:36	06:05 17:28-17:47/19 18:08	06:14 19:41	05:37 20:12	05:25 20:33
20	07:19 16:59	06:47 16:32-17:09/37 17:37	06:03 17:26-17:48/22 18:09	06:12 19:42	05:36 20:13	05:25 20:34
21	07:19 17:00	06:46 16:32-17:09/37 17:38	06:01 17:23-17:49/26 18:10	06:11 19:43	05:35 20:14	05:25 20:34
22	07:18 17:01	06:44 16:33-17:09/36 17:39	06:00 17:21-17:50/29 18:11	06:10 19:44	05:34 20:15	05:25 20:34
23	07:17 17:02	06:43 16:33-17:08/35 17:41	05:58 17:20-17:52/32 18:12	06:08 19:46	05:34 20:16	05:25 20:34
24	07:17 17:03	06:41 16:34-17:08/34 17:42	05:56 17:18-17:52/34 18:13	06:07 19:47	05:33 20:17	05:26 20:35
25	07:16 16:34-16:41/7 17:05	06:40 16:34-17:06/32 17:43	05:55 17:17-17:53/36 18:14	06:05 19:48	05:32 20:18	05:26 20:35
26	07:15 16:31-16:42/11 17:06	06:38 16:36-17:06/30 17:44	05:53 17:15-17:54/39 18:16	06:04 19:49	05:31 20:19	05:26 20:35
27	07:14 16:30-16:43/13 17:07	06:37 16:37-17:04/27 17:45	05:51 17:15-17:54/39 18:17	06:02 19:50	05:31 20:20	05:27 20:35
28	07:14 16:28-16:44/16 17:08	06:35 16:38-17:02/24 17:47	05:50 17:14-17:51/37 18:18	06:01 19:51	05:30 20:21	05:27 20:35
29	07:13 16:27-16:45/18 17:10		06:48 18:13-18:49/36 19:19	06:00 19:52	05:29 20:21	05:27 20:35
30	07:12 16:26-16:47/21 17:11		06:46 18:13-18:48/35 19:20	05:58 19:53	05:29 20:22	05:28 20:35
31	07:11 16:26-16:48/22 17:12		06:45 18:13-18:45/32 19:21		05:28 20:23	
Potential sun hours	297	297	369	399	449	453
Sum of minutes with flicker	108	955	464	220	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: 1 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (1)

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	05:28 20:35	05:52 20:16	06:23 18:15-18:21/6 19:32	06:54 18:42	06:28 15:54-16:31/37 16:55	07:03 16:30
2	05:29 20:35	05:53 20:14	06:24 18:13-18:23/10 19:31	06:55 18:40	06:29 15:54-16:30/36 16:53	07:04 16:30
3	05:29 20:34	05:54 20:13	06:25 18:12-18:24/12 19:29	06:56 18:38	06:30 15:54-16:28/34 16:52	07:05 16:30
4	05:30 20:34	05:55 20:12	06:26 18:10-18:26/16 19:27	06:57 18:36	06:32 15:53-16:27/34 16:51	07:06 16:29
5	05:30 20:34	05:56 20:11	06:27 18:09-18:27/18 19:26	06:58 18:35	06:33 15:54-16:26/32 16:50	07:07 16:29
6	05:31 20:34	05:57 20:10	06:28 18:08-18:29/21 19:24	06:59 18:33	06:34 15:54-16:25/31 16:49	07:08 16:29
7	05:32 20:33	05:58 20:09	06:29 18:07-18:30/23 19:22	07:00 18:32	06:35 15:54-16:23/29 16:48	07:09 16:29
8	05:32 20:33	05:59 20:07	06:30 18:07-18:31/24 19:21	07:01 18:30	06:36 15:54-16:22/28 16:46	07:10 16:29
9	05:33 20:33	06:00 20:06	06:31 18:06-18:33/27 19:19	07:02 18:28	06:38 15:56-16:22/26 16:45	07:11 16:29
10	05:34 20:32	06:01 20:05	06:32 18:06-18:34/28 19:17	07:03 18:27	06:39 15:56-16:20/24 16:44	07:12 16:29
11	05:34 20:32	06:02 20:04	06:33 18:05-18:36/31 19:16	07:04 17:19-17:28/9 18:25	06:40 15:57-16:19/22 16:43	07:13 16:29
12	05:35 20:31	06:03 20:02	06:34 18:05-18:37/32 19:14	07:05 17:14-17:31/17 18:23	06:41 15:58-16:19/21 16:42	07:13 16:29
13	05:36 20:31	06:04 20:01	06:35 18:04-18:39/35 19:12	07:06 17:12-17:34/22 18:22	06:42 15:59-16:17/18 16:41	07:14 16:29
14	05:36 20:30	06:05 20:00	06:36 18:04-18:40/36 19:11	07:07 17:10-17:36/26 18:20	06:44 16:00-16:16/16 16:41	07:15 16:29
15	05:37 20:30	06:06 19:58	06:37 18:04-18:41/37 19:09	07:08 17:08-17:37/29 18:19	06:45 16:02-16:15/13 16:40	07:16 16:30
16	05:38 20:29	06:07 19:57	06:38 18:04-18:43/39 19:07	07:10 17:07-17:37/30 18:17	06:46 16:04-16:15/11 16:39	07:16 16:30
17	05:39 20:29	06:08 19:55	06:39 18:05-18:44/39 19:05	07:11 17:06-17:38/32 18:16	06:47 16:07-16:14/7 16:38	07:17 16:30
18	05:40 20:28	06:09 19:54	06:40 18:04-18:41/37 19:04	07:12 17:04-17:38/34 18:14	06:48 16:37	07:18 16:30
19	05:40 20:27	06:10 19:52	06:41 18:04-18:39/35 19:02	07:13 17:04-17:40/36 18:13	06:49 16:36	07:18 16:31
20	05:41 20:27	06:11 19:51	06:42 18:05-18:37/32 19:00	07:14 17:04-17:40/36 18:11	06:51 16:36	07:19 16:31
21	05:42 20:26	06:12 19:49	06:43 18:06-18:36/30 18:59	07:15 17:03-17:40/37 18:10	06:52 16:35	07:20 16:32
22	05:43 20:25	06:13 19:48	06:44 18:07-18:34/27 18:57	07:16 17:02-17:40/38 18:08	06:53 16:34	07:20 16:32
23	05:44 20:24	06:14 19:46	06:45 18:08-18:32/24 18:55	07:17 17:02-17:39/37 18:07	06:54 16:34	07:21 16:33
24	05:45 20:23	06:15 19:45	06:46 18:10-18:30/20 18:53	07:19 17:03-17:40/37 18:05	06:55 16:33	07:21 16:33
25	05:46 20:22	06:16 19:43	06:47 18:13-18:29/16 18:52	06:20 16:00-16:39/39 17:04	06:56 16:33	07:21 16:34
26	05:47 20:22	06:17 19:42	06:48 18:19-18:24/5 18:50	06:21 15:59-16:39/40 17:03	06:58 16:32	07:22 16:34
27	05:48 20:21	06:18 19:40	06:49 18:48	06:22 15:57-16:37/40 17:01	06:59 16:32	07:22 16:35
28	05:49 20:20	06:19 19:39	06:50 18:47	06:23 15:57-16:37/40 17:00	07:00 16:31	07:22 16:36
29	05:49 20:19	06:20 19:37	06:51 18:45	06:24 15:56-16:35/39 16:58	07:01 16:31	07:23 16:36
30	05:50 20:18	06:21 19:36	06:52 18:43	06:26 15:55-16:33/38 16:57	07:02 16:30	07:23 16:37
31	05:51 20:17	06:22 18:17-18:20/3 19:34		06:27 15:54-16:32/38 16:56		07:23 16:38
Potential sun hours	459	428	375	345	298	287
Sum of minutes with flicker	0	3	660	694	419	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 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (2)

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	07:23 15:37-16:11/34 16:39 08:12-09:42/90	07:10 08:27-09:45/78 17:13	06:34 17:48	06:43 07:24-07:49/25 19:22	05:57 19:54	05:28 20:24
2	07:24 15:38-16:12/34 16:40 08:12-09:42/90	07:09 08:28-09:44/76 17:15	06:32 17:49	06:41 07:26-07:52/26 19:23	05:56 19:55	05:27 20:24
3	07:24 15:38-16:12/34 16:41 08:13-09:43/90	07:08 08:29-09:43/74 17:16	06:31 17:50	06:40 07:28-07:53/25 19:24	05:54 19:56	05:27 20:25
4	07:24 15:39-16:13/34 16:42 08:13-09:43/90	07:07 08:30-09:42/72 17:17	06:29 17:51	06:38 07:29-07:54/25 19:25	05:53 19:57	05:27 20:26
5	07:24 15:39-16:13/34 16:43 08:13-09:44/91	07:06 08:31-09:42/71 17:18	06:28 17:52	06:36 07:31-07:56/25 19:26	05:52 19:58	05:26 20:27
6	07:24 15:40-16:13/33 16:43 08:14-09:44/90	07:05 08:32-09:41/69 17:20	06:26 17:53	06:35 07:32-07:57/25 19:27	05:50 19:59	05:26 20:27
7	07:24 15:41-16:14/33 16:44 08:15-09:45/90	07:04 08:32-09:39/67 17:21	06:24 17:55	06:33 07:33-07:57/24 19:28	05:49 20:00	05:26 20:28
8	07:23 15:41-16:13/32 16:45 08:14-09:45/91	07:03 08:34-09:37/63 17:22	06:23 17:56	06:31 07:35-07:59/24 19:29	05:48 20:01	05:25 20:28
9	07:23 15:42-16:14/32 16:46 08:15-09:45/90	07:01 08:35-09:36/61 17:23	06:21 17:57	06:30 07:36-07:59/23 19:30	05:47 20:02	05:25 20:29
10	07:23 15:43-16:14/31 16:47 08:16-09:46/90	07:00 08:37-09:35/58 17:25	06:20 17:58	06:28 07:38-08:00/22 19:32	05:46 20:03	05:25 20:30
11	07:23 15:44-16:14/30 16:48 08:16-09:46/90	06:59 08:39-09:33/54 17:26	06:18 17:59	06:26 07:39-08:00/21 19:33	05:45 20:04	05:25 20:30
12	07:23 15:44-16:14/30 16:50 08:16-09:46/90	06:58 08:39-09:31/52 17:27	06:16 18:00	06:25 07:40-08:00/20 19:34	05:44 20:05	05:25 20:31
13	07:22 15:45-16:14/29 16:51 08:17-09:47/90	06:56 08:42-09:29/47 17:28	06:15 18:01	06:23 07:42-08:01/19 19:35	05:43 20:06	05:24 20:31
14	07:22 15:45-16:13/28 16:52 08:17-09:47/90	06:55 08:44-09:26/42 17:30	06:13 18:02	06:22 07:43-08:01/18 19:36	05:42 20:07	05:24 20:32
15	07:22 15:47-16:13/26 16:53 08:18-09:47/89	06:54 08:46-09:23/37 17:31	06:11 18:04	06:20 07:45-08:02/17 19:37	05:41 20:08	05:24 20:32
16	07:21 15:47-16:13/26 16:54 08:18-09:48/90	06:53 08:49-09:19/30 17:32	06:10 18:05	06:19 07:46-08:01/15 19:38	05:40 20:09	05:24 20:32
17	07:21 15:49-16:13/24 16:55 08:18-09:48/90	06:51 08:54-09:15/21 17:33	06:08 18:06	06:17 07:48-08:02/14 19:39	05:39 20:10	05:24 20:33
18	07:20 15:50-16:12/22 16:56 08:18-09:47/89	06:50 17:35	06:06 18:07	06:15 07:49-08:02/13 19:40	05:38 20:11	05:24 20:33
19	07:20 15:52-16:11/19 16:57 08:20-09:48/88	06:49 17:36	06:05 18:08	06:14 07:51-08:02/11 19:41	05:37 20:12	05:25 20:33
20	07:19 15:54-16:10/16 16:59 08:20-09:48/88	06:47 17:37	06:03 18:09	06:12 07:52-08:02/10 19:42	05:36 20:13	05:25 20:34
21	07:19 15:56-16:08/12 17:00 08:21-09:48/87	06:46 17:38	06:01 18:10	06:11 07:54-08:02/8 19:43	05:35 20:14	05:25 20:34
22	07:18 16:00-16:05/5 17:01 08:21-09:48/87	06:44 17:39	06:00 18:11	06:09 07:55-08:01/6 19:44	05:34 20:15	05:25 20:34
23	07:17 08:21-09:48/87 17:02	06:43 17:41	05:58 18:12	06:08 07:57-08:02/5 19:45	05:33 20:16	05:25 20:34
24	07:17 08:22-09:47/85 17:03	06:41 17:42	05:56 18:13	06:07 07:59-08:02/3 19:47	05:33 20:17	05:26 20:35
25	07:16 08:23-09:48/85 17:05	06:40 17:43	05:55 18:14	06:05 07:59-08:01/2 19:48	05:32 20:18	05:26 20:35
26	07:15 08:23-09:48/85 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35
27	07:14 08:24-09:47/83 17:07	06:37 17:45	05:51 06:22-06:30/8 18:17	06:02 19:50	05:31 20:20	05:27 20:35
28	07:14 08:24-09:47/83 17:08	06:35 17:46	05:50 06:19-06:38/19 18:18	06:01 19:51	05:30 20:20	05:27 20:35
29	07:13 08:25-09:46/81 17:10		06:48 07:20-07:42/22 19:19	06:00 19:52	05:29 20:21	05:27 20:35
30	07:12 08:26-09:46/80 17:11		06:46 07:22-07:45/23 19:20	05:58 19:53	05:29 20:22	05:28 20:35
31	07:11 08:26-09:45/79 17:12		06:44 07:23-07:48/25 19:21		05:28 20:23	
Potential sun hours	297	297	369	399	449	453
Sum of minutes with flicker	3316	972	97	426	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 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (2)

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	05:28 20:35	05:52 20:16	06:23 07:38-07:59/21 19:32	06:53 18:41	06:28 08:06-09:05/59 16:55	07:03 15:26-15:56/30 16:30 07:58-09:29/91
2	05:29 20:35	05:53 20:14	06:24 07:36-07:58/22 19:31	06:54 18:40	06:29 08:05-09:06/61 16:53	07:04 15:26-15:57/31 16:30 07:59-09:29/90
3	05:29 20:34	05:54 20:13	06:25 07:34-07:57/23 19:29	06:56 18:38	06:30 08:03-09:08/65 16:52	07:05 15:26-15:58/32 16:29 07:59-09:29/90
4	05:30 20:34	05:55 20:12	06:26 07:32-07:56/24 19:27	06:57 18:36	06:31 08:02-09:09/67 16:51	07:06 15:26-15:58/32 16:29 07:59-09:30/91
5	05:30 20:34	05:56 20:11	06:27 07:30-07:54/24 19:26	06:58 18:35	06:33 08:02-09:11/69 16:50	07:07 15:26-15:59/33 16:29 08:00-09:30/90
6	05:31 20:34	05:57 20:10	06:28 07:28-07:53/25 19:24	06:59 18:33	06:34 08:01-09:12/71 16:49	07:08 15:26-15:59/33 16:29 08:00-09:30/90
7	05:32 20:33	05:58 20:09	06:29 07:26-07:51/25 19:22	07:00 18:31	06:35 08:00-09:12/72 16:47	07:09 15:26-16:00/34 16:29 08:01-09:31/90
8	05:32 20:33	05:59 20:07	06:30 07:24-07:49/25 19:21	07:01 18:30	06:36 07:59-09:13/74 16:46	07:10 15:27-16:01/34 16:29 08:01-09:31/90
9	05:33 20:33	06:00 20:06	06:31 07:22-07:47/25 19:19	07:02 18:28	06:37 07:59-09:15/76 16:45	07:11 15:27-16:01/34 16:29 08:02-09:32/90
10	05:34 20:32	06:01 20:05	06:32 07:20-07:45/25 19:17	07:03 18:27	06:39 07:58-09:16/78 16:44	07:12 15:27-16:01/34 16:29 08:01-09:31/90
11	05:34 20:32	06:02 20:04	06:33 07:18-07:43/25 19:16	07:04 18:25	06:40 07:57-09:16/79 16:43	07:12 15:27-16:01/34 16:29 08:02-09:32/90
12	05:35 20:31	06:03 20:02	06:34 07:16-07:40/24 19:14	07:05 18:23	06:41 07:57-09:18/81 16:42	07:13 15:28-16:02/34 16:29 08:02-09:33/91
13	05:36 20:31	06:04 20:01	06:35 07:13-07:37/24 19:12	07:06 18:22	06:42 07:57-09:18/81 16:41	07:14 15:28-16:03/35 08:03-09:33/90 16:29 09:52-10:00/8
14	05:36 20:30	06:05 19:59	06:36 07:11-07:33/22 19:10	07:07 18:20	06:43 07:56-09:19/83 16:40	07:15 15:29-16:04/35 08:04-09:34/90 16:29 09:50-10:03/13
15	05:37 20:30	06:06 19:58	06:37 07:09-07:29/20 19:09	07:08 18:19	06:45 07:56-09:19/83 16:40	07:16 15:29-16:03/34 08:04-09:34/90 16:30 09:49-10:04/15
16	05:38 20:29	06:07 19:57	06:38 07:08-07:22/14 19:07	07:09 18:17	06:46 07:56-09:21/85 16:39	07:16 15:29-16:04/35 08:04-09:34/90 16:30 09:48-10:06/18
17	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	06:47 07:56-09:21/85 16:38	07:17 15:30-16:05/35 08:05-09:35/90 16:30 09:48-10:08/20
18	05:40 20:28	06:09 08:06-08:08/2 19:54	06:40 19:04	07:12 18:14	06:48 07:56-09:21/85 16:37	07:18 15:30-16:04/34 08:05-09:35/90 16:30 09:47-10:08/21
19	05:40 20:27	06:10 08:04-08:07/3 19:52	06:41 19:02	07:13 18:13	06:49 07:56-09:23/87 16:36	07:18 15:31-16:05/34 08:06-09:36/90 16:31 09:48-10:10/22
20	05:41 20:27	06:11 08:02-08:07/5 19:51	06:42 19:00	07:14 18:11	06:51 15:35-15:40/5 16:36 07:56-09:23/87	07:19 15:31-16:05/34 08:06-09:36/90 16:31 09:48-10:10/22
21	05:42 20:26	06:12 08:00-08:07/7 19:49	06:43 18:58	07:15 18:10	06:52 15:32-15:44/12 16:35 07:56-09:23/87	07:19 15:32-16:06/34 08:07-09:37/90 16:32 09:48-10:11/23
22	05:43 20:25	06:13 07:59-08:07/8 19:48	06:44 18:57	07:16 18:08	06:53 15:30-15:46/16 16:34 07:56-09:24/88	07:20 15:32-16:06/34 08:07-09:37/90 16:32 09:48-10:11/23
23	05:44 20:24	06:14 07:57-08:06/9 19:46	06:45 18:55	07:17 18:07	06:54 15:28-15:47/19 16:34 07:56-09:24/88	07:20 15:33-16:07/34 08:08-09:38/90 16:33 09:49-10:12/23
24	05:45 20:23	06:15 07:54-08:05/11 19:45	06:46 18:53	07:19 09:30-09:39/9 18:05	06:55 15:28-15:50/22 16:33 07:56-09:25/89	07:21 15:33-16:07/34 08:08-09:38/90 16:33 09:50-10:12/22
25	05:46 20:22	06:16 07:52-08:04/12 19:43	06:47 18:52	08:23-08:46/23 17:04	06:56 15:27-15:51/24 16:33 07:56-09:26/90	07:21 15:34-16:08/34 08:09-09:39/90 16:34 09:51-10:13/22
26	05:47 20:22	06:17 07:50-08:04/14 19:42	06:48 18:50	08:18-08:50/32 17:02	06:57 15:26-15:52/26 16:32 07:57-09:26/89	07:22 15:34-16:08/34 08:09-09:39/90 16:34 09:52-10:12/20
27	05:48 20:21	06:18 07:48-08:03/15 19:40	06:49 18:48	08:15-08:53/38 17:01	06:59 15:26-15:52/26 16:32 07:57-09:26/89	07:22 15:34-16:09/35 08:09-09:39/90 16:35 09:53-10:11/18
28	05:48 20:20	06:19 07:46-08:03/17 19:39	06:50 18:47	08:13-08:57/44 17:00	07:00 15:25-15:53/28 16:31 07:57-09:27/90	07:22 15:35-16:09/34 08:10-09:40/90 16:36 09:54-10:11/17
29	05:49 20:19	06:20 07:44-08:02/18 19:37	06:51 18:45	08:11-08:59/48 16:58	07:01 15:25-15:54/29 16:31 07:57-09:27/90	07:23 15:36-16:10/34 08:11-09:41/90 16:36 09:57-10:10/13
30	05:50 20:18	06:21 07:42-08:01/19 19:35	06:52 18:43	08:09-09:01/52 16:57	07:02 15:26-15:56/30 16:30 07:58-09:28/90	07:23 15:36-16:11/35 08:11-09:41/90 16:37 09:59-10:09/10
31	05:51 20:17	06:22 07:40-08:00/20 19:34	06:53 18:43	08:07-09:02/55 16:56	07:03 15:26-15:56/30 16:30 07:58-09:28/90	07:23 15:37-16:11/34 16:38 08:11-09:42/91
Potential sun hours	459	428	375	345	298	287
Sum of minutes with flicker	0	160	368	301	2655	4171

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 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (3)

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	07:23 14:53-16:13/80 16:39	07:10 14:51-16:36/105 17:13	06:34 15:03-16:29/86 17:48	06:43 07:24-07:30/6 19:22	05:57 19:54	05:28 20:24
2	07:24 14:53-16:14/81 16:40	07:09 14:51-16:36/105 17:15	06:32 15:04-16:27/83 17:49	06:41 07:26-07:31/5 19:23	05:55 19:55	05:27 20:24
3	07:24 14:53-16:14/81 16:41	07:08 14:51-16:36/105 17:16	06:31 15:06-16:27/81 17:50	06:39 07:28-07:31/3 19:24	05:54 19:56	05:27 20:25
4	07:24 14:53-16:15/82 16:42	07:07 14:51-16:37/106 17:17	06:29 15:06-16:25/79 17:51	06:38 07:29-07:32/3 19:25	05:53 19:57	05:26 20:26
5	07:24 14:53-16:16/83 16:42	07:06 14:51-16:37/106 17:18	06:28 15:08-16:23/75 17:52	06:36 07:31-07:33/2 19:26	05:52 19:58	05:26 20:27
6	07:24 14:53-16:17/84 16:43	07:05 14:51-16:38/107 17:20	06:26 15:10-16:22/72 17:53	06:35 19:27	05:50 19:59	05:26 20:27
7	07:24 14:53-16:18/85 16:44	07:04 14:51-16:37/106 17:21	06:24 15:11-16:20/69 17:55	06:33 19:28	05:49 20:00	05:25 20:28
8	07:23 14:52-16:18/86 16:45	07:03 14:51-16:37/106 17:22	06:23 15:13-16:19/66 17:56	06:31 19:29	05:48 20:01	05:25 20:28
9	07:23 14:53-16:19/86 16:46	07:01 14:51-16:38/107 17:23	06:21 15:15-16:17/62 17:57	06:30 19:30	05:47 20:02	05:25 20:29
10	07:23 14:53-16:20/87 16:47	07:00 14:52-16:38/106 17:25	06:20 15:17-16:14/57 17:58	06:28 19:32	05:46 20:03	05:25 20:30
11	07:23 14:53-16:22/89 16:48	06:59 14:52-16:38/106 17:26	06:18 15:20-16:12/52 17:59	06:26 19:33	05:45 20:04	05:25 20:30
12	07:23 14:52-16:22/90 16:50	06:58 14:52-16:37/105 17:27	06:16 15:22-16:09/47 18:00	06:25 19:34	05:44 20:05	05:25 20:31
13	07:22 14:53-16:23/90 16:51	06:56 14:52-16:37/105 17:28	06:15 15:25-16:06/41 18:01	06:23 19:35	05:43 20:06	05:24 20:31
14	07:22 14:52-16:23/91 16:52	06:55 14:53-16:38/105 17:30	06:13 15:29-16:03/34 18:02	06:22 19:36	05:41 20:07	05:24 20:32
15	07:22 14:52-16:25/93 16:53	06:54 14:53-16:37/104 17:31	06:11 15:33-15:58/25 18:03	06:20 19:37	05:40 20:08	05:24 20:32
16	07:21 14:52-16:25/93 16:54	06:53 14:53-16:37/104 17:32	06:10 15:43-15:48/5 18:05	06:18 19:38	05:39 20:09	05:24 20:32
17	07:21 14:52-16:26/94 16:55	06:51 14:54-16:37/103 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33
18	07:20 14:52-16:27/95 16:56	06:50 14:54-16:36/102 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33
19	07:20 14:52-16:28/96 16:57	06:48 14:55-16:36/101 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33
20	07:19 14:52-16:28/96 16:59	06:47 14:55-16:35/100 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34
21	07:19 14:51-16:29/98 17:00	06:46 14:56-16:35/99 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34
22	07:18 14:52-16:30/98 17:01	06:44 14:56-16:34/98 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34
23	07:17 14:51-16:31/100 17:02	06:43 14:57-16:34/97 17:41	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34
24	07:17 14:51-16:31/100 17:03	06:41 14:58-16:33/95 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:26 20:34
25	07:16 14:51-16:31/100 17:05	06:40 14:59-16:32/93 17:43	05:55 18:14	06:05 19:48	05:32 20:18	05:26 20:35
26	07:15 14:51-16:33/102 17:06	06:38 14:59-16:31/92 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35
27	07:14 14:51-16:33/102 17:07	06:37 15:01-16:31/90 17:45	05:51 06:18-06:20/2 18:17	06:02 19:50	05:31 20:20	05:26 20:35
28	07:14 14:51-16:34/103 17:08	06:35 15:01-16:29/88 17:46	05:49 06:19-06:23/4 18:18	06:01 19:51	05:30 20:20	05:27 20:35
29	07:13 14:51-16:34/103 17:10		06:48 07:20-07:25/5 19:19	05:59 19:52	05:29 20:21	05:27 20:35
30	07:12 14:51-16:35/104 17:11		06:46 07:22-07:28/6 19:20	05:58 19:53	05:29 20:22	05:28 20:35
31	07:11 14:51-16:35/104 17:12		06:44 07:23-07:29/6 19:21		05:28 20:23	
Potential sun hours	297	297	369	399	449	453
Sum of minutes with flicker	2876	2846	957	19	0	0

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

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

WTG: 3 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (3)

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	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	16:03-16:48/45 18:41 16:55	06:28 14:20-16:07/107 07:03 14:35-16:04/89 16:30
2	05:29 20:34	05:53 20:14	06:24 19:31	06:54 18:40	15:59-16:50/51 18:40 16:53	06:29 14:21-16:07/106 07:04 14:36-16:04/88 16:30
3	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	15:56-16:52/56 18:38 16:52	06:30 14:21-16:07/106 07:05 14:37-16:03/86 16:29
4	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	15:54-16:53/59 18:36 16:51	06:31 14:20-16:07/107 07:06 14:37-16:03/86 16:29
5	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	15:51-16:55/64 18:35 16:50	06:33 14:21-16:07/106 07:07 14:38-16:03/85 16:29
6	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	15:49-16:56/67 18:33 16:49	06:34 14:21-16:07/106 07:08 14:39-16:03/84 16:29
7	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:31	15:46-16:57/71 18:31 16:47	06:35 14:21-16:07/106 07:09 14:40-16:03/83 16:29
8	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	15:44-16:58/74 18:30 16:46	06:36 14:21-16:06/105 07:10 14:41-16:03/82 16:29
9	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	15:42-16:59/77 18:28 16:45	06:37 14:22-16:07/105 07:11 14:42-16:04/82 16:29
10	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:27	15:40-17:00/80 18:27 16:44	06:39 14:22-16:06/104 07:12 14:42-16:03/81 16:29
11	05:34 20:32	06:02 20:03	06:33 19:16	07:04 18:25	15:38-17:00/82 18:25 16:43	06:40 14:22-16:06/104 07:12 14:43-16:03/80 16:29
12	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	15:37-17:01/84 18:23 16:42	06:41 14:23-16:07/104 07:13 14:44-16:03/79 16:29
13	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	15:36-17:03/87 18:22 16:41	06:42 14:23-16:06/103 07:14 14:44-16:04/80 16:29
14	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	15:34-17:03/89 18:20 16:40	06:43 14:23-16:06/103 07:15 14:45-16:04/79 16:29
15	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	15:33-17:03/90 18:19 16:40	06:45 14:23-16:05/102 07:16 14:45-16:03/78 16:29
16	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	15:31-17:04/93 18:17 16:39	06:46 14:24-16:06/102 07:16 14:46-16:04/78 16:30
17	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	15:30-17:04/94 18:16 16:38	06:47 14:25-16:05/100 07:17 14:47-16:05/78 16:30
18	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	15:29-17:04/95 18:14 16:37	06:48 14:25-16:05/100 07:18 14:47-16:04/77 16:30
19	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	15:29-17:05/96 18:12 16:36	06:49 14:25-16:05/100 07:18 14:48-16:05/77 16:31
20	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	15:27-17:06/99 18:11 16:36	06:51 14:27-16:05/98 07:19 14:48-16:05/77 16:31
21	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:10	15:26-17:06/100 18:10 16:35	06:52 14:27-16:05/98 07:19 14:49-16:06/77 16:32
22	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	15:25-17:06/101 18:08 16:34	06:53 14:28-16:04/96 07:20 14:49-16:06/77 16:32
23	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	15:24-17:06/102 18:07 16:34	06:54 14:28-16:04/96 07:20 14:50-16:07/77 16:33
24	05:45 20:23	06:15 19:45	06:46 18:53	07:19 18:05	15:24-17:07/103 18:05 16:33	06:55 14:30-16:05/95 07:21 14:50-16:07/77 16:33
25	05:46 20:22	06:16 19:43	06:47 18:52	06:20 17:04	14:24-16:07/103 17:04 16:32	06:56 14:30-16:04/94 07:21 14:51-16:08/77 16:34
26	05:47 20:22	06:17 19:42	06:48 18:50	06:21 17:02	14:23-16:07/104 17:02 16:32	06:57 14:31-16:04/93 07:22 14:51-16:08/77 16:34
27	05:47 20:21	06:18 19:40	06:49 18:48	06:22 17:01	14:22-16:07/105 17:01 16:32	06:59 14:31-16:04/93 07:22 14:51-16:09/78 16:35
28	05:48 20:20	06:19 19:39	06:50 18:46	06:23 17:00	14:22-16:06/104 17:00 16:31	07:00 14:32-16:03/91 07:22 14:51-16:09/78 16:36
29	05:49 20:19	06:20 19:37	06:51 18:45	06:24 16:58	14:22-16:07/105 16:58 16:31	07:01 14:33-16:03/90 07:23 14:52-16:11/79 16:36
30	05:50 20:18	06:21 19:35	06:52 18:43	06:26 16:57	14:21-16:07/106 16:57 16:30	07:02 14:34-16:04/90 07:23 14:52-16:11/79 16:37
31	05:51 20:17	06:22 19:34		06:27 16:56	14:21-16:07/106 16:56 16:30	07:23 14:52-16:12/80 16:38
Potential sun hours	460	428	375	345	298	287
Sum of minutes with flicker	0	0	132	2692	3010	2485

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

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

SHADOW - Calendar per WTG

WTG: 4 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (4)

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	07:23 16:39	07:10 07:30-07:52/22 17:13	06:34 07:09-08:05/56 17:48	06:43 19:22	05:57 19:54	05:28 20:24
2	07:23 16:40	07:09 07:29-07:54/25 17:15	06:32 07:09-08:03/54 17:49	06:41 19:23	05:55 19:55	05:27 20:24
3	07:24 16:41	07:08 07:28-07:56/28 17:16	06:31 07:10-08:03/53 17:50	06:39 19:24	05:54 19:56	05:27 20:25
4	07:24 16:42	07:07 07:27-07:58/31 17:17	06:29 07:10-08:01/51 17:51	06:38 19:25	05:53 19:57	05:26 20:26
5	07:24 16:42	07:06 07:26-07:59/33 17:18	06:28 17:25-17:29/4 17:52 07:11-07:59/48	06:36 19:26	05:52 19:58	05:26 20:26
6	07:24 16:43	07:05 07:25-08:01/36 17:20	06:26 17:20-17:32/12 17:53 07:12-07:58/46	06:34 19:27	05:50 19:59	05:26 20:27
7	07:24 16:44	07:04 07:23-08:01/38 17:21	06:24 17:17-17:33/16 17:54 07:13-07:56/43	06:33 19:28	05:49 20:00	05:25 20:28
8	07:23 16:45	07:02 07:22-08:02/40 17:22	06:23 17:15-17:34/19 17:56 07:15-07:55/40	06:31 19:29	05:48 20:01	05:25 20:28
9	07:23 16:46	07:01 07:21-08:04/43 17:23	06:21 17:14-17:36/22 17:57 07:16-07:53/37	06:30 19:30	05:47 20:02	05:25 20:29
10	07:23 16:47	07:00 07:20-08:05/45 17:25	06:19 17:12-17:36/24 17:58 07:18-07:50/32	06:28 19:31	05:46 20:03	05:25 20:30
11	07:23 16:48	06:59 07:19-08:06/47 17:26	06:18 17:12-17:38/26 17:59 07:21-07:47/26	06:26 19:33	05:45 20:04	05:25 20:30
12	07:23 16:49	06:58 07:17-08:06/49 17:27	06:16 17:10-17:39/29 18:00 07:24-07:43/19	06:25 19:34	05:44 20:05	05:24 20:31
13	07:22 16:51	06:56 07:16-08:07/51 17:28	06:15 17:09-17:40/31 18:01	06:23 19:35	05:42 20:06	05:24 20:31
14	07:22 16:52	06:55 07:15-08:08/53 17:30	06:13 17:10-17:42/32 18:02	06:22 19:36	05:41 20:07	05:24 20:32
15	07:22 16:53	06:54 07:13-08:07/54 17:31	06:11 17:09-17:42/33 18:03	06:20 19:37	05:40 20:08	05:24 20:32
16	07:21 16:54	06:53 07:12-08:08/56 17:32	06:10 17:08-17:41/33 18:05	06:18 19:38	05:39 20:09	05:24 20:32
17	07:21 16:55	06:51 07:11-08:09/58 17:33	06:08 17:09-17:41/32 18:06	06:17 19:39	05:38 20:10	05:24 20:33
18	07:20 16:56	06:50 07:09-08:08/59 17:34	06:06 17:09-17:40/31 18:07	06:15 19:40	05:38 20:11	05:24 20:33
19	07:20 16:57	06:48 07:08-08:09/61 17:36	06:05 17:09-17:39/30 18:08	06:14 19:41	05:37 20:12	05:25 20:33
20	07:19 16:59	06:47 07:07-08:08/61 17:37	06:03 17:09-17:38/29 18:09	06:12 19:42	05:36 20:13	05:25 20:34
21	07:19 17:00	06:46 07:07-08:08/61 17:38	06:01 17:10-17:37/27 18:10	06:11 19:43	05:35 20:14	05:25 20:34
22	07:18 17:01	06:44 07:07-08:08/61 17:39	06:00 17:10-17:36/26 18:11	06:09 19:44	05:34 20:15	05:25 20:34
23	07:17 17:02	06:43 07:07-08:08/61 17:40	05:58 17:11-17:34/23 18:12 06:16-06:18/2	06:08 19:45	05:33 20:16	05:25 20:34
24	07:17 17:03	06:41 07:07-08:07/60 17:42	05:56 17:14-17:32/18 18:13 06:15-06:20/5	06:06 19:46	05:33 20:17	05:25 20:34
25	07:16 17:05	06:40 07:07-08:07/60 17:43	05:54 17:16-17:28/12 18:14 06:14-06:20/6	06:05 19:48	05:32 20:18	05:26 20:35
26	07:15 17:06	06:38 07:07-08:06/59 17:44	05:53 06:15-06:20/5 18:15	06:04 19:49	05:31 20:19	05:26 20:35
27	07:14 17:07	06:37 07:08-08:06/58 17:45	05:51 06:18-06:21/3 18:16	06:02 19:50	05:31 20:20	05:26 20:35
28	07:13 17:08	06:35 07:08-08:05/57 17:46	05:49 06:19-06:21/2 18:18	06:01 19:51	05:30 20:20	05:27 20:35
29	07:13 07:33-07:40/7 17:10		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35
30	07:12 07:32-07:46/14 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35
31	07:11 07:31-07:49/18 17:12		06:44 19:21		05:28 20:23	
Potential sun hours	297	297	369	399	449	453
Sum of minutes with flicker	39	1367	1037	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 4 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (4)

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	05:28 20:35	05:52 20:15	06:23 19:32	06:53 17:49-18:18/29 18:41 08:06-08:20/14	06:28 06:49-07:33/44 16:54	07:03 16:30
2	05:29 20:34	05:53 20:14	06:24 19:31	06:54 17:49-18:16/27 18:40 08:01-08:24/23	06:29 06:51-07:33/42 16:53	07:04 16:30
3	05:29 20:34	05:54 20:13	06:25 19:29	06:55 17:50-18:16/26 18:38 07:57-08:27/30	06:30 06:52-07:32/40 16:52	07:05 16:29
4	05:30 20:34	05:55 20:12	06:26 19:27	06:57 17:51-18:14/23 18:36 07:55-08:29/34	06:31 06:53-07:31/38 16:51	07:06 16:29
5	05:30 20:34	05:56 20:11	06:27 19:26	06:58 17:52-18:12/20 18:35 07:52-08:31/39	06:33 06:55-07:30/35 16:50	07:07 16:29
6	05:31 20:34	05:57 20:10	06:28 19:24	06:59 17:53-18:10/17 18:33 07:50-08:32/42	06:34 06:56-07:29/33 16:49	07:08 16:29
7	05:31 20:33	05:58 20:09	06:29 19:22	07:00 17:55-18:09/14 18:31 07:49-08:33/44	06:35 06:57-07:27/30 16:47	07:09 16:29
8	05:32 20:33	05:59 20:07	06:30 19:21	07:01 17:57-18:07/10 18:30 07:47-08:34/47	06:36 06:58-07:26/28 16:46	07:10 16:29
9	05:33 20:33	06:00 20:06	06:31 19:19	07:02 07:45-08:35/50 18:28	06:37 07:00-07:25/25 16:45	07:11 16:29
10	05:33 20:32	06:01 20:05	06:32 19:17	07:03 07:44-08:36/52 18:26	06:39 07:01-07:22/21 16:44	07:12 16:29
11	05:34 20:32	06:02 20:03	06:33 19:16	07:04 07:43-08:37/54 18:25	06:40 07:02-07:20/18 16:43	07:12 16:29
12	05:35 20:31	06:03 20:02	06:34 19:14	07:05 07:42-08:37/55 18:23	06:41 07:04-07:17/13 16:42	07:13 16:29
13	05:36 20:31	06:04 20:01	06:35 19:12	07:06 07:42-08:38/56 18:22	06:42 07:05-07:11/6 16:41	07:14 16:29
14	05:36 20:30	06:05 19:59	06:36 19:10	07:07 07:41-08:39/58 18:20	06:43 16:40	07:15 16:29
15	05:37 20:30	06:06 19:58	06:37 07:09-07:11/2 19:09	07:08 07:40-08:39/59 18:19	06:45 16:39	07:16 16:29
16	05:38 20:29	06:07 19:57	06:38 07:07-07:11/4 19:07	07:09 07:39-08:39/60 18:17	06:46 16:39	07:16 16:30
17	05:39 20:29	06:08 19:55	06:39 07:04-07:09/5 19:05	07:11 07:39-08:39/60 18:15	06:47 16:38	07:17 16:30
18	05:39 20:28	06:09 19:54	06:40 18:04-18:15/11 19:04 07:02-07:08/6	07:12 07:38-08:39/61 18:14	06:48 16:37	07:18 16:30
19	05:40 20:27	06:10 19:52	06:41 18:01-18:18/17 19:02 07:01-07:07/6	07:13 07:39-08:40/61 18:12	06:49 16:36	07:18 16:31
20	05:41 20:26	06:11 19:51	06:42 17:58-18:19/21 19:00 07:02-07:05/3	07:14 07:38-08:39/61 18:11	06:51 16:36	07:19 16:31
21	05:42 20:26	06:12 19:49	06:43 17:56-18:21/25 18:58	07:15 07:38-08:39/61 18:09	06:52 16:35	07:19 16:32
22	05:43 20:25	06:13 19:48	06:44 17:55-18:21/26 18:57	07:16 07:37-08:39/62 18:08	06:53 16:34	07:20 16:32
23	05:44 20:24	06:14 19:46	06:45 17:53-18:22/29 18:55	07:17 07:38-08:38/60 18:07	06:54 16:34	07:20 16:33
24	05:45 20:23	06:15 19:45	06:46 17:52-18:22/30 18:53	07:18 07:40-08:39/59 18:05	06:55 16:33	07:21 16:33
25	05:46 20:22	06:16 19:43	06:47 17:51-18:23/32 18:52	06:20 06:41-07:38/57 17:04	06:56 16:32	07:21 16:34
26	05:47 20:21	06:17 19:42	06:48 17:50-18:23/33 18:50	06:21 06:42-07:38/56 17:02	06:57 16:32	07:22 16:34
27	05:47 20:21	06:18 19:40	06:49 17:50-18:22/32 18:48	06:22 06:43-07:37/54 17:01	06:59 16:31	07:22 16:35
28	05:48 20:20	06:19 19:39	06:50 17:49-18:22/33 18:46	06:23 06:44-07:36/52 17:00	07:00 16:31	07:22 16:36
29	05:49 20:19	06:20 19:37	06:51 17:49-18:22/33 18:45	06:24 06:46-07:36/50 16:58	07:01 16:31	07:23 16:36
30	05:50 20:18	06:21 19:35	06:52 17:49-18:20/31 18:43	06:25 06:47-07:35/48 16:57	07:02 16:30	07:23 16:37
31	05:51 20:17	06:22 19:34		06:27 06:48-07:34/46 16:56		07:23 16:38
Potential sun hours	460	428	375	345	298	287
Sum of minutes with flicker	0	0	379	1731	373	0

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

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

WTG: 5 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (5)
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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	07:03 16:30
2	07:23 16:40	07:09 17:14	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	07:05 16:29
4	07:24 16:41	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:26 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	07:06 16:29
5	07:24 16:42	07:06 17:18	06:27 17:52	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	07:07 16:29
6	07:24 16:43	07:05 17:20	06:26 17:53	06:34 19:27	05:50 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:48	07:08 16:29
7	07:23 16:44	07:04 17:21	06:24 17:54	06:33 19:28	05:49 20:00	05:25 20:28	05:31 20:33	05:58 20:08	06:29 19:22	07:00 18:31	06:35 16:47	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:47	07:00 17:25	06:19 17:58	06:28 19:31	05:46 20:03	05:25 20:29	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:26	06:39 16:44	07:11 16:29
11	07:23 16:48	06:59 17:26	06:18 17:59	06:26 19:32	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:49	06:58 17:27	06:16 18:00	06:25 19:34	05:43 20:05	05:24 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	06:23 19:35	05:42 20:06	05:24 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:29	06:13 18:02	06:22 19:36	05:41 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:03	06:20 19:37	05:40 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:39	07:15 16:29
16	07:21 16:54	06:52 17:32	06:10 18:04	06:18 19:38	05:39 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:38 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33	05:39 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:24 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 16:31
20	07:19 16:58	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:35	07:19 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	07:19 16:31
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:32
24	07:17 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:25 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:52	07:19 17:04	06:56 16:32	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:46 20:21	06:17 19:42	06:48 18:50	07:20 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:30 20:19	05:26 20:35	05:47 20:20	06:18 19:40	06:49 18:48	07:22 17:01	06:58 16:31	07:22 16:35
28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:46	07:23 17:00	06:59 16:31	07:23 16:36
29	07:13 17:09		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	07:24 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:43	07:25 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:44 19:21		05:28 20:23		05:51 20:16	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Sum of minutes with flicker	0	118	0	0	0	0	0	0	0	119	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: 6 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (6)

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	07:23 08:14-08:56/42 16:39 16:42	07:10 17:13	06:34 17:47	06:43 19:22	05:57 19:54	05:28 20:23	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	07:03 08:05-08:38/33 16:30	
2	07:23 08:15-08:56/41 16:40	07:09 17:14	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	07:04 08:05-08:39/34 16:30	
3	07:23 08:16-08:56/40 16:41	07:08 17:16	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	07:05 08:04-08:40/36 16:29	
4	07:24 08:16-08:56/40 16:41	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:26 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	07:06 08:04-08:41/37 16:29	
5	07:24 08:17-08:57/40 16:42	07:06 17:18	06:27 17:52	06:36 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 19:25	06:57 18:35	06:33 16:50	07:07 08:04-08:42/38 16:29	
6	07:23 08:18-08:57/39 16:43	07:05 17:19	06:26 17:53	06:34 19:27	05:50 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:48	07:08 08:04-08:43/39 16:29	
7	07:23 08:19-08:57/38 16:44	07:04 17:21	06:24 17:54	06:33 19:28	05:49 20:00	05:25 20:28	05:31 20:33	05:58 20:08	06:29 19:22	07:00 18:31	06:35 16:47	07:09 08:04-08:44/40 16:29	
8	07:23 08:19-08:56/37 16:45	07:02 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:20	07:01 18:30	06:36 16:46	07:10 08:05-08:45/40 16:29	
9	07:23 08:20-08:56/36 16:46	07:01 17:23	06:21 17:57	06:29 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 08:04-08:44/40 16:29	
10	07:23 08:22-08:56/34 16:47	07:00 17:24	06:19 17:58	06:28 19:31	05:46 20:03	05:25 20:29	05:33 20:32	06:01 20:05	06:32 19:17	07:03 18:26	06:39 16:44	07:11 08:04-08:45/41 16:29	
11	07:23 08:23-08:56/33 16:48	06:59 17:26	06:18 17:59	06:26 19:32	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 19:15	07:04 18:25	06:40 16:43	07:12 08:04-08:46/42 16:29	
12	07:23 08:23-08:55/32 16:49	06:58 17:27	06:16 18:00	06:25 19:34	05:43 20:05	05:24 20:30	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 08:05-08:47/42 16:29	
13	07:22 08:25-08:55/30 16:50	06:56 17:28	06:14 18:01	06:23 19:35	05:42 20:06	05:24 20:31	05:35 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 08:05-08:48/43 16:29	
14	07:22 08:26-08:54/28 16:52	06:55 17:29	06:13 18:02	06:22 19:36	05:41 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 16:40	07:15 08:05-08:47/42 16:29	
15	07:21 08:27-08:54/27 16:53	06:54 17:31	06:11 18:03	06:20 19:37	05:40 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:18	06:45 16:39	07:15 08:06-08:48/42 16:29	
16	07:21 08:29-08:52/23 16:54	06:52 17:32	06:09 18:04	06:18 19:38	05:39 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:09 18:17	06:46 16:39	07:16 08:06-08:49/43 16:30	
17	07:21 08:31-08:51/20 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:38 20:10	05:24 20:33	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 16:38	07:17 08:07-08:50/43 16:30	
18	07:20 08:33-08:49/16 16:56	06:50 17:34	06:06 18:07	06:15 19:40	05:37 20:11	05:24 20:33	05:39 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:18 08:07-08:50/43 16:30	
19	07:20 08:37-08:47/10 16:57	06:48 17:36	06:04 18:08	06:14 19:41	05:37 20:12	05:24 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 08:08-08:51/43 16:31	
20	07:19 16:58	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:35	07:19 08:07-08:51/44 16:31	
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	07:19 08:08-08:52/44 16:31	
22	07:18 17:01	06:44 17:39	05:59 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 08:08-08:52/44 16:32	
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 08:13-08:23/10 16:34	07:20 08:09-08:53/44 16:32	
24	07:16 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:25 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 08:11-08:27/16 16:33	07:21 08:09-08:53/44 16:33	
25	07:16 17:04	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:51	07:19 17:04	06:56 08:09-08:29/20 16:32	07:21 08:10-08:53/43 16:34	
26	07:15 17:06	06:38 17:44	05:53 18:15	06:03 19:48	05:31 20:19	05:26 20:35	05:46 20:21	06:17 19:42	06:48 18:50	07:20 17:02	06:57 08:08-08:31/23 16:32	07:22 08:11-08:54/43 16:34	
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:30 20:19	05:26 20:35	05:47 20:20	06:18 19:40	06:49 18:48	07:21 17:01	06:58 08:07-08:33/26 16:31	07:22 08:11-08:54/43 16:35	
28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:19	06:19 19:38	06:50 18:46	07:22 17:00	07:00 08:06-08:34/28 16:31	07:22 08:11-08:54/43 16:36	
29	07:13 17:09	06:34 17:46	05:48 18:19	05:59 19:52	05:29 20:21	05:27 20:35	05:49 20:18	06:20 19:37	06:51 18:45	07:23 16:58	07:01 08:05-08:35/30 16:31	07:23 08:13-08:55/42 16:36	
30	07:12 17:11	06:33 19:20	05:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:17	06:21 19:35	06:52 18:43	07:24 16:57	07:02 08:04-08:36/32 16:30	07:23 08:13-08:56/43 16:37	
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	Potential sun hours Sum of minutes with flicker	297 606	297 0	369 0	399 0	449 0	453 0	459 0	428 0	375 0	345 0	298 185	287 1280

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

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

SHADOW - Calendar per WTG

WTG: 7 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (7)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:16	06:23 19:32	06:53 18:41	06:28 16:55	07:03 16:30
2	07:24 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:27 20:24	05:29 20:35	05:53 20:14	06:24 19:31	06:55 18:40	06:29 16:53	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:57 18:36	06:31 16:51	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	06:36 19:26	05:52 19:58	05:26 20:27	05:30 20:34	05:56 20:11	06:27 19:26	06:58 18:35	06:33 16:50	07:07 16:29
6	07:24 16:44	07:05 17:20	06:26 17:53	06:35 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 19:24	06:59 18:33	06:34 16:49	07:08 16:29
7	07:24 16:44	07:04 17:21	06:24 17:55	06:33 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 19:22	07:00 18:32	06:35 16:48	07:09 16:29
8	07:23 16:45	07:03 17:22	06:23 17:56	06:31 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 19:21	07:01 18:30	06:36 16:46	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 19:31	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 19:19	07:02 18:28	06:37 16:45	07:11 16:29
10	07:23 16:48	07:00 17:25	06:20 17:58	06:28 19:32	05:46 20:03	05:25 20:30	05:34 20:32	06:01 20:05	06:32 19:17	07:03 18:27	06:39 16:44	07:12 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	06:26 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:04	06:33 19:16	07:04 18:25	06:40 16:43	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 19:14	07:05 18:23	06:41 16:42	07:13 16:29
13	07:22 16:51	06:57 17:28	06:15 18:01	06:23 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 16:41	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:42 20:07	05:24 20:32	05:36 20:30	06:05 19:59	06:36 19:11	07:07 18:20	06:43 16:41	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:45 16:40	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 19:07	07:10 18:17	06:46 16:39	07:16 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 19:05	07:11 18:16	06:47 16:38	07:17 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 19:04	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:58	06:49 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:13	06:49 16:36	07:18 16:31
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31	07:11 17:12		06:45 19:21		05:28 20:23		05:51 20:17	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 8 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (8)

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	07:23	07:10	06:34	06:43	05:57	05:28	05:28	05:52	06:23	06:53	06:28	07:03
	16:39	17:13	17:48	19:22	19:54	20:24	20:35	20:15	19:32	18:41	16:55	16:30
2	07:24	07:09	06:32	06:41	05:56	05:27	05:29	05:53	06:24	06:54	06:29	07:04
	16:40	17:15	17:49	19:23	19:55	20:24	20:34	20:14	19:31	18:40	16:53	16:30
3	07:24	07:08	06:31	06:40	05:54	05:27	05:29	05:54	06:25	06:56	06:30	07:05
	16:41	17:16	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:38	16:52	16:30
4	07:24	07:07	06:29	06:38	05:53	05:27	05:30	05:55	06:26	06:57	06:31	07:06
	16:42	17:17	17:51	19:25	19:57	20:26	20:34	20:12	19:27	18:36	16:51	16:29
5	07:24	07:06	06:28	06:36	05:52	05:26	05:30	05:56	06:27	06:58	06:33	07:07
	16:43	17:18	17:52	19:26	19:58	20:26	20:34	20:11	19:26	18:35	16:50	16:29
6	07:24	07:05	06:26	06:35	05:51	05:26	05:31	05:57	06:28	06:59	06:34	07:08
	16:43	17:20	17:53	19:27	19:59	20:27	20:34	20:10	19:24	18:33	16:49	16:29
7	07:24	07:04	06:24	06:33	05:49	05:26	05:32	05:58	06:29	07:00	06:35	07:09
	16:44	17:21	17:55	19:28	20:00	20:28	20:33	20:09	19:22	18:31	16:48	16:29
8	07:23	07:03	06:23	06:31	05:48	05:25	05:32	05:59	06:30	07:01	06:36	07:10
	16:45	17:22	17:56	19:29	20:01	20:28	20:33	20:07	19:21	18:30	16:46	16:29
9	07:23	07:01	06:21	06:30	05:47	05:25	05:33	06:00	06:31	07:02	06:37	07:11
	16:46	17:23	17:57	19:30	20:02	20:29	20:33	20:06	19:19	18:28	16:45	16:29
10	07:23	07:00	06:20	06:28	05:46	05:25	05:34	06:01	06:32	07:03	06:39	07:12
	16:47	17:25	17:58	19:32	20:03	20:30	20:32	20:05	19:17	18:27	16:44	16:29
11	07:23	06:59	06:18	06:26	05:45	05:25	05:34	06:02	06:33	07:04	06:40	07:12
	16:49	17:26	17:59	19:33	20:04	20:30	20:32	20:03	19:16	18:25	16:43	16:29
12	07:23	06:58	06:16	06:25	05:44	05:25	05:35	06:03	06:34	07:05	06:41	07:13
	16:50	17:27	18:00	19:34	20:05	20:31	20:31	20:02	19:14	18:23	16:42	16:29
13	07:22	06:56	06:15	06:23	05:43	05:24	05:36	06:04	06:35	07:06	06:42	07:14
	16:51	17:28	18:01	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:41	16:29
14	07:22	06:55	06:13	06:22	05:42	05:24	05:36	06:05	06:36	07:07	06:43	07:15
	16:52	17:30	18:02	19:36	20:07	20:32	20:30	19:59	19:10	18:20	16:40	16:29
15	07:22	06:54	06:11	06:20	05:41	05:24	05:37	06:06	06:37	07:08	06:45	07:16
	16:53	17:31	18:04	19:37	20:08	20:32	20:30	19:58	19:09	18:19	16:40	16:30
16	07:21	06:53	06:10	06:19	05:40	05:24	05:38	06:07	06:38	07:09	06:46	07:16
	16:54	17:32	18:05	19:38	20:09	20:32	20:29	19:57	19:07	18:17	16:39	16:30
17	07:21	06:51	06:08	06:17	05:39	05:24	05:39	06:08	06:39	07:11	06:47	07:17
	16:55	17:33	18:06	19:39	20:10	20:33	20:29	19:55	19:05	18:16	16:38	16:30
18	07:20	06:50	06:06	06:15	05:38	05:25	05:40	06:09	06:40	07:12	06:48	07:18
	16:56	17:35	18:07	19:40	20:11	20:33	20:28	19:54	19:04	18:14	16:37	16:30
19	07:20	06:48	06:05	06:14	05:37	05:25	05:40	06:10	06:41	07:13	06:49	07:18
	16:57	17:36	18:08	19:41	20:12	20:33	20:27	19:52	19:02	18:13	16:36	16:31
20	07:19	06:47	06:03	06:12	05:36	05:25	05:41	06:11	06:42	07:14	06:51	07:19
	16:59	17:37	18:09	19:42	20:13	20:34	20:26	19:51	19:00	18:11	16:36	16:31
21	07:19	06:46	06:01	06:11	05:35	05:25	05:42	06:12	06:43	07:15	06:52	07:19
	17:00	17:38	18:10	19:43	20:14	20:34	20:26	19:49	18:58	18:10	16:35	16:32
22	07:18	06:44	06:00	06:09	05:34	05:25	05:43	06:13	06:44	07:16	06:53	07:20
	17:01	17:39	18:11	19:44	20:15	20:34	20:25	19:48	18:57	18:08	16:34	16:32
23	07:17	06:43	05:58	06:08	05:33	05:25	05:44	06:14	06:45	07:17	06:54	07:20
	17:02	17:41	18:12	19:45	20:16	20:34	20:24	19:46	18:55	18:07	16:34	16:33
24	07:17	06:41	05:56	06:07	05:33	05:26	05:45	06:15	06:46	07:19	06:55	07:21
	17:03	17:42	18:13	19:46	20:17	20:34	20:23	19:45	18:53	18:05	16:33	16:33
25	07:16	06:40	05:55	06:05	05:32	05:26	05:46	06:16	06:47	06:20	06:56	07:21
	17:05	17:43	18:14	19:48	20:18	20:35	20:22	19:43	18:52	17:04	16:33	16:34
26	07:15	06:38	05:53	06:04	05:31	05:26	05:47	06:17	06:48	06:21	06:57	07:22
	17:06	17:44	18:15	19:49	20:19	20:35	20:22	19:42	18:50	17:02	16:32	16:34
27	07:14	06:37	05:51	06:02	05:31	05:27	05:48	06:18	06:49	06:22	06:59	07:22
	17:07	17:45	18:17	19:50	20:20	20:35	20:21	19:40	18:48	17:01	16:32	16:35
28	07:14	06:35	05:50	06:01	05:30	05:27	05:48	06:19	06:50	06:23	07:00	07:22
	17:08	17:46	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:31	16:36
29	07:13		06:48	06:00	05:29	05:27	05:49	06:20	06:51	06:24	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:58	16:31	16:36
30	07:12		06:46	05:58	05:29	05:28	05:50	06:21	06:52	06:26	07:02	07:23
	17:11		19:20	19:53	20:22	20:35	20:18	19:35	18:43	16:57	16:30	16:37
31	07:11		06:44		05:28		05:51	06:22		06:27		07:23
	17:12		19:21		20:23		20:17	19:34		16:56		16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 9 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (9)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:24	05:28 20:34	05:52 20:15	06:23 19:32	06:53 18:41	06:28 16:54	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:55 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 19:30	06:54 18:40	06:29 16:53	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:39 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 19:29	06:55 18:38	06:30 16:52	07:05 16:29
4	07:24 16:41	07:07 17:17	06:29 17:51	06:38 19:25	05:53 19:57	05:26 20:26	05:30 20:34	05:55 20:12	06:26 19:27	06:56 18:36	06:31 16:51	07:06 16:29
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18	07:20 16:56	06:50 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33	05:39 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:18 16:30
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:24 20:33	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:19 16:31
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 16:35	07:19 16:32
22	07:18 17:01	06:44 17:39	05:59 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 16:34	07:20 16:32
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:17 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:25 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33
25	07:16 17:05	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34	05:46 20:22	06:16 19:43	06:47 18:52	07:19 17:04	06:56 16:32	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:46 20:21	06:17 19:42	06:48 18:50	07:20 17:02	06:57 16:32	07:22 16:34
27	07:14 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19	05:26 20:35	05:47 20:20	06:18 19:40	06:49 18:48	07:21 17:01	06:58 16:31	07:22 16:35
28	07:13 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:46	07:22 17:00	07:00 16:31	07:22 16:36
29	07:13 17:09		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:45	07:23 16:58	07:01 16:31	07:23 16:36
30	07:12 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:17	06:21 19:35	06:52 18:43	07:24 16:57	07:02 16:30	07:23 16:37
31	07:11 17:12		06:44 19:21		05:28 20:23		05:51 20:16	06:22 19:34		06:27 16:56		07:23 16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 10 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (10)

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	07:23	07:10	06:34 16:17-17:20/63	06:43	05:57	05:28	05:28	05:52	06:23	06:53 17:04-17:52/48	06:28 15:54-16:30/36	07:03	
	16:39	17:13	17:48	17:22	19:54	20:24	20:35	20:15	19:32	18:41	16:55	16:30	
2	07:23	07:09	06:32 16:17-17:19/62	06:41	05:56	05:27	05:29	05:53	06:24	06:55 17:03-17:53/50	06:29 15:56-16:30/34	07:04	
	16:40	17:15	17:49	19:23	19:55	20:24	20:34	20:14	19:31	18:40	16:53	16:30	
3	07:24	07:08	06:31 16:18-17:20/62	06:40	05:54	05:27	05:29	05:54	06:25	06:56 17:01-17:53/52	06:30 15:58-16:28/30	07:05	
	16:41	17:16	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:38	16:52	16:30	
4	07:24	07:07	06:29 16:18-17:19/61	06:38	05:53	05:27	05:30	05:55	06:26	06:57 17:00-17:53/53	06:31 16:00-16:25/25	07:06	
	16:42	17:17	17:51	19:25	19:57	20:26	20:34	20:12	19:27	18:36	16:51	16:29	
5	07:24	07:06	16:37-16:50/13	06:28	16:18-17:18/60	06:36	05:52	05:26	05:30	05:56	06:27	07:07	
	16:43	17:18	17:52	19:26	19:58	20:26	20:34	20:11	19:26	18:35	16:50	16:29	
6	07:24	07:05	16:33-16:54/21	06:26	16:20-17:18/58	06:35	05:51	05:26	05:31	05:57	06:28	07:08	
	16:44	17:20	17:53	19:27	19:59	20:27	20:34	20:10	19:24	18:33	16:49	16:29	
7	07:24	07:04	16:29-16:56/27	06:24	16:20-17:17/57	06:33	05:49	05:26	05:32	05:58	06:29	07:09	
	16:44	17:21	17:55	19:28	20:00	20:28	20:33	20:09	19:22	18:31	16:48	16:29	
8	07:23	07:03	16:28-16:58/30	06:23	16:22-17:17/55	06:31	05:48	05:25	05:32	05:59	06:30	07:10	
	16:45	17:22	17:56	19:29	20:01	20:28	20:33	20:07	19:21	18:30	16:46	16:29	
9	07:23	07:01	16:26-17:00/34	06:21	16:22-17:16/54	06:30	05:47	05:25	05:33	06:00	06:31	07:11	
	16:46	17:23	17:57	19:30	20:02	20:29	20:33	20:06	19:19	18:28	16:45	16:29	
10	07:23	07:00	16:25-17:02/37	06:20	16:22-17:15/53	06:28	05:46	05:25	05:34	06:01	06:32	07:12	
	16:48	17:25	17:58	19:32	20:03	20:30	20:32	20:05	19:17	18:27	16:44	16:29	
11	07:23	06:59	16:24-17:03/39	06:18	16:24-17:14/50	06:26	05:45	05:25	05:34	06:02	06:33	07:12	
	16:49	17:26	17:59	19:33	20:04	20:30	20:32	20:03	19:16	18:25	16:43	16:29	
12	07:23	06:58	16:22-17:04/42	06:16	16:24-17:13/49	06:25	05:44	05:25	05:35	06:03	06:34	07:13	
	16:50	17:27	18:00	19:34	20:05	20:31	20:31	20:02	19:14	18:23	16:42	16:29	
13	07:22	06:56	16:21-17:05/44	06:15	16:25-17:11/46	06:23	05:43	05:25	05:36	06:04	06:35	07:14	
	16:51	17:28	18:01	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:41	16:29	
14	07:22	06:55	16:21-17:07/46	06:13	16:27-17:10/43	06:22	05:42	05:24	05:36	06:05	06:36	07:15	
	16:52	17:30	18:02	19:36	20:07	20:32	20:30	19:59	19:10	18:20	16:41	16:29	
15	07:22	06:54	16:19-17:08/49	06:11	16:28-17:08/40	06:20	05:41	05:24	05:37	06:06	06:37	07:16	
	16:53	17:31	18:04	19:37	20:08	20:32	20:30	19:58	19:09	18:19	16:40	16:30	
16	07:21	06:53	16:19-17:10/51	06:10	16:29-17:06/37	06:19	05:40	05:24	05:38	06:07	06:38	07:16	
	16:54	17:32	18:05	19:38	20:09	20:32	20:29	19:57	19:07	18:17	16:39	16:30	
17	07:21	06:51	16:18-17:11/53	06:08	16:32-17:04/32	06:17	05:39	05:24	05:39	06:08	06:39	07:17	
	16:55	17:33	18:06	19:39	20:10	20:33	20:29	19:55	19:05	18:16	16:38	16:30	
18	07:20	06:50	16:17-17:12/55	06:06	16:34-17:00/26	06:15	05:38	05:25	05:40	06:09	06:40	07:18	
	16:56	17:35	18:07	19:40	20:11	20:33	20:28	19:54	19:04	18:14	16:37	16:30	
19	07:20	06:48	16:17-17:14/57	06:05	16:37-16:55/18	06:14	05:37	05:25	05:40	06:10	06:41	07:18	
	16:58	17:36	18:08	19:41	20:12	20:33	20:27	19:52	19:02	18:13	16:36	16:31	
20	07:19	06:47	16:16-17:15/59	06:03	06:12	05:36	05:25	05:41	06:11	06:42	07:14	07:19	
	16:59	17:37	18:09	19:42	20:13	20:34	20:26	19:51	19:00	18:11	16:36	16:31	
21	07:19	06:46	16:16-17:16/60	06:01	06:11	05:35	05:25	05:42	06:12	06:43	07:15	07:19	
	17:00	17:38	18:10	19:43	20:14	20:34	20:26	19:49	18:58	18:10	16:35	16:32	
22	07:18	06:44	16:16-17:17/61	06:00	06:09	05:34	05:25	05:43	06:13	06:44	07:16	07:20	
	17:01	17:39	18:11	19:44	20:15	20:34	20:25	19:48	18:57	18:08	16:34	16:32	
23	07:17	06:43	16:16-17:18/62	05:58	06:08	05:34	05:25	05:44	06:14	06:45	07:17	07:20	
	17:02	17:41	18:12	19:45	20:16	20:34	20:24	19:46	18:55	18:07	16:34	16:33	
24	07:17	06:41	16:15-17:18/63	05:56	06:07	05:33	05:26	05:45	06:15	06:46	17:23-17:36/13	07:19	07:21
	17:03	17:42	18:13	19:46	20:17	20:34	20:23	19:45	18:53	18:05	16:33	16:33	
25	07:16	06:40	16:16-17:19/63	05:55	06:05	05:32	05:26	05:46	06:16	06:47	17:18-17:42/24	07:18	07:21
	17:05	17:43	18:14	19:48	20:18	20:35	20:22	19:43	18:52	18:04	16:32	16:34	
26	07:15	06:38	16:15-17:19/64	05:53	06:04	05:31	05:26	05:47	06:17	06:48	17:14-17:44/30	07:17	07:22
	17:06	17:44	18:15	19:49	20:19	20:35	20:21	19:42	18:50	18:02	16:32	16:34	
27	07:14	06:37	16:16-17:19/63	05:51	06:02	05:31	05:27	05:48	06:18	06:49	17:11-17:46/35	07:16	07:22
	17:07	17:45	18:17	19:50	20:20	20:35	20:21	19:40	18:48	18:01	16:32	16:35	
28	07:13	06:35	16:16-17:19/63	05:50	06:01	05:30	05:27	05:49	06:19	06:50	17:09-17:48/39	07:15	07:22
	17:08	17:46	18:18	19:51	20:20	20:35	20:20	19:39	18:47	18:00	16:31	16:36	
29	07:13		06:48	06:00	05:29	05:27	05:49	06:20	06:51	17:07-17:49/42	07:14	07:23	
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	18:00	16:31	16:36	
30	07:12		06:46	05:58	05:29	05:28	05:50	06:21	06:52	17:05-17:50/45	07:13	07:23	
	17:11		19:20	19:53	20:22	20:35	20:18	19:35	18:43	18:00	16:30	16:37	
31	07:11		06:45		05:28		05:51	06:22		16:57	15:53-16:32/39	07:12	07:23
	17:12		19:21		20:23		20:17	19:34		16:56		16:38	07:23
Potential sun hours	297	297	369	399	449	453	459	428	375	345	298	287	
Sum of minutes with flicker	0	1156	926	0	0	0	0	0	228	1728	157	0	

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

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

SHADOW - Calendar per WTG

WTG: 11 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (11)

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	07:23 16:39	07:10 17:13	06:34 17:48	06:43 18:12-18:43/31 19:22	05:57 19:54	05:28 20:24	05:28 20:35	05:52 20:15	06:23 18:09-18:21/12 19:32	06:53 18:41	06:28 16:55	07:03 16:30	
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 18:12-18:41/29 19:23	05:56 19:55	05:27 20:24	05:29 20:34	05:53 20:14	06:24 18:08-18:23/15 19:31	06:54 18:40	06:29 16:53	07:04 16:30	
3	07:24 16:41	07:08 17:16	06:31 17:50	06:39 18:11-18:39/28 19:24	05:54 19:56	05:27 20:25	05:29 20:34	05:54 20:13	06:25 18:08-18:24/16 19:29	06:56 18:38	06:30 16:52	07:05 16:30	
4	07:24 16:42	07:07 17:17	06:29 17:51	06:38 18:10-18:37/27 19:25	05:53 19:57	05:27 20:26	05:30 20:34	05:55 20:12	06:26 18:07-18:26/19 19:27	06:57 18:36	06:31 16:51	07:06 16:29	
5	07:24 16:43	07:06 17:18	06:28 17:52	06:36 18:11-18:35/24 19:26	05:52 19:58	05:26 20:26	05:30 20:34	05:56 20:11	06:27 18:06-18:27/21 19:26	06:58 18:35	06:33 16:50	07:07 16:29	
6	07:24 16:43	07:05 17:20	06:26 17:53	06:35 18:10-18:33/23 19:27	05:51 19:59	05:26 20:27	05:31 20:34	05:57 20:10	06:28 18:06-18:29/23 19:24	06:59 18:33	06:34 16:49	07:08 16:29	
7	07:23 16:44	07:04 17:21	06:24 17:55	06:33 18:09-18:30/21 19:28	05:49 20:00	05:26 20:28	05:32 20:33	05:58 20:09	06:29 18:06-18:30/24 19:22	07:00 18:31	06:35 16:48	07:09 16:29	
8	07:23 16:45	07:02 17:22	06:23 17:56	06:31 18:10-18:29/19 19:29	05:48 20:01	05:25 20:28	05:32 20:33	05:59 20:07	06:30 18:06-18:32/26 19:21	07:01 18:30	06:36 16:46	07:10 16:29	
9	07:23 16:46	07:01 17:23	06:21 17:57	06:30 18:10-18:26/16 19:30	05:47 20:02	05:25 20:29	05:33 20:33	06:00 20:06	06:31 18:05-18:33/28 19:19	07:02 18:28	06:37 16:45	07:11 16:29	
10	07:23 16:47	07:00 17:25	06:20 17:58	06:28 18:10-18:25/15 19:31	05:46 20:03	05:25 20:29	05:34 20:32	06:01 20:05	06:32 18:05-18:34/29 19:17	07:03 18:27	06:39 16:44	07:12 16:29	
11	07:23 16:49	06:59 17:26	06:18 17:59	06:26 18:10-18:22/12 19:33	05:45 20:04	05:25 20:30	05:34 20:32	06:02 20:03	06:33 18:05-18:36/31 19:16	07:04 18:25	06:40 16:43	07:12 16:29	
12	07:23 16:50	06:58 17:27	06:16 18:00	06:25 18:10-18:20/10 19:34	05:44 20:05	05:25 20:31	05:35 20:31	06:03 20:02	06:34 18:06-18:37/31 19:14	07:05 18:23	06:41 16:42	07:13 16:29	
13	07:22 16:51	06:56 17:28	06:15 18:01	06:23 18:11-18:19/8 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:04 20:01	06:35 18:06-18:39/33 19:12	07:06 18:22	06:42 16:41	07:14 16:29	
14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 18:11-18:16/5 19:36	05:42 20:07	05:24 20:31	05:36 20:30	06:05 19:59	06:36 18:06-18:40/34 19:10	07:07 18:20	06:43 16:40	07:15 16:29	
15	07:22 16:53	06:54 17:31	06:11 18:03	06:20 18:12-18:15/3 19:37	05:41 20:08	05:24 20:32	05:37 20:30	06:06 19:58	06:37 18:06-18:40/34 19:09	07:08 18:19	06:45 16:40	07:16 16:30	
16	07:21 16:54	06:53 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:24 20:32	05:38 20:29	06:07 19:57	06:38 18:07-18:42/35 19:07	07:09 18:17	06:46 16:39	07:16 16:30	
17	07:21 16:55	06:51 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33	05:39 20:29	06:08 19:55	06:39 18:08-18:43/35 19:05	07:11 18:16	06:47 16:38	07:17 16:30	
18	07:20 16:56	06:50 17:35	06:06 18:07	06:15 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:09 19:54	06:40 18:09-18:41/32 19:04	07:12 18:14	06:48 16:37	07:18 16:30	
19	07:20 16:57	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:40 20:27	06:10 19:52	06:41 18:10-18:39/29 19:02	07:13 18:13	06:49 16:36	07:18 16:31	
20	07:19 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:34	05:41 20:26	06:11 19:51	06:42 18:12-18:37/25 19:00	07:14 18:11	06:51 16:36	07:19 16:31	
21	07:19 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34	05:42 20:26	06:12 19:49	06:43 18:15-18:34/19 18:58	07:15 18:10	06:52 16:35	07:19 16:32	
22	07:18 17:01	06:44 17:39	06:00 18:11	06:09 19:44	05:34 20:15	05:25 20:34	05:43 20:25	06:13 19:48	06:44 18:20-18:28/8 18:57	07:16 18:08	06:53 16:34	07:20 16:32	
23	07:17 17:02	06:43 17:41	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34	05:44 20:24	06:14 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33	
24	07:17 17:03	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:15 19:45	06:46 18:53	07:18 18:05	06:55 16:33	07:21 16:33	
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:48	05:32 20:18	05:26 20:35	05:46 20:22	06:16 19:43	06:47 18:52	07:19 17:04	06:56 16:33	07:21 16:34	
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:49	05:31 20:19	05:26 20:35	05:47 20:21	06:17 19:42	06:48 18:50	07:20 17:02	06:57 16:32	07:22 16:34	
27	07:14 17:07	06:37 17:45	05:51 18:17	06:02 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:18 19:40	06:49 18:48	07:22 17:01	06:59 16:32	07:22 16:35	
28	07:13 17:08	06:35 17:46	05:50 18:18	06:01 19:51	05:30 20:20	05:27 20:35	05:48 20:20	06:19 19:39	06:50 18:13-18:16/3 18:46	07:23 17:00	07:00 16:31	07:22 16:36	
29	07:13 17:10	06:48 19:19	18:15-18:49/34 19:52	06:00 19:52	05:29 20:21	05:27 20:35	05:49 20:19	06:20 19:37	06:51 18:12-18:17/5 18:45	07:24 16:58	07:01 16:31	07:23 16:36	
30	07:12 17:11	06:46 19:20	18:15-18:48/33 19:53	05:58 19:53	05:29 20:22	05:28 20:35	05:50 20:18	06:21 19:35	06:52 18:11-18:19/8 18:43	07:25 16:57	07:02 16:30	07:23 16:37	
31	07:11 17:12	06:44 19:21	18:14-18:45/31 19:54	05:57 20:23	05:28 20:23	05:27 20:17	05:51 20:17	06:22 19:34	06:53 18:10-18:20/10 19:34	07:26 16:56	07:03 16:38	07:24 16:38	
Potential sun hours	297	297	369	399	449	453	459	428	375	559	345	298	287
Sum of minutes with flicker	0	0	301	271	0	0	0	26	26	559	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 12 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (12)

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	07:23 16:39	07:10 17:13	06:34 17:48	17:02-17:24/22 19:22	06:43 19:54	05:57 20:24	05:28 20:35	05:52 20:15	06:23 19:32	06:53 18:41	18:07-18:18/11 16:55	06:28 16:30	07:03 16:30
2	07:23 16:40	07:09 17:15	06:32 17:49	17:02-17:22/20 19:23	06:41 19:55	05:56 20:24	05:29 20:34	05:53 20:14	06:24 19:31	06:55 18:40	18:08-18:17/9 16:53	06:29 16:30	07:04 16:30
3	07:24 16:41	07:08 17:16	06:31 17:50	17:03-17:22/19 19:24	06:40 19:56	05:54 20:25	05:27 20:34	05:54 20:13	06:25 19:29	06:56 18:38	18:10-18:16/6 16:52	06:30 16:30	07:05 16:30
4	07:24 16:42	07:07 17:17	06:29 17:51	17:04-17:20/16 19:25	06:38 19:57	05:53 20:26	05:27 20:34	05:55 20:12	06:26 19:27	06:57 18:36	18:13-18:14/1 16:51	06:31 16:29	07:06 16:29
5	07:24 16:43	07:06 17:18	06:28 17:52	17:06-17:17/11 19:26	06:36 19:58	05:52 20:26	05:26 20:34	05:56 20:11	06:27 19:26	06:58 18:35	16:50 16:29	06:33 16:29	07:07 16:29
6	07:24 16:44	07:05 17:20	06:26 17:53	17:07-17:18/12 19:27	06:35 19:59	05:51 20:27	05:26 20:34	05:57 20:10	06:28 19:24	06:59 18:33	16:50 16:29	06:34 16:29	07:08 16:29
7	07:24 16:45	07:04 17:21	06:24 17:55	17:08-17:19/13 19:28	06:33 19:58	05:49 20:28	05:26 20:33	05:58 20:09	06:29 19:22	07:00 18:31	16:49 16:29	06:35 16:29	07:09 16:29
8	07:23 16:45	07:02 17:22	06:23 17:56	17:09-17:20/14 19:29	06:31 19:59	05:48 20:01	05:25 20:33	05:59 20:07	06:30 19:21	07:01 18:30	17:43-17:51/8 16:46	06:36 16:29	07:10 16:29
9	07:23 16:46	07:01 17:23	06:21 17:57	17:10-17:21/15 19:30	06:30 20:02	05:47 20:29	05:25 20:33	06:00 20:06	06:31 19:19	07:02 18:28	17:40-17:53/13 16:45	06:37 16:29	07:11 16:29
10	07:23 16:48	07:00 17:25	06:20 17:58	17:32-17:37/5 19:32	06:28 20:03	05:46 20:30	05:25 20:32	06:01 20:05	06:32 19:17	07:03 18:27	17:38-17:55/17 16:44	06:39 16:29	07:12 16:29
11	07:23 16:49	06:59 17:26	06:18 17:59	17:30-17:38/8 19:33	06:26 20:04	05:45 20:30	05:25 20:32	06:02 20:03	06:33 19:16	07:04 18:25	17:36-17:56/20 16:43	06:40 16:29	07:12 16:29
12	07:23 16:50	06:58 17:27	06:16 18:00	17:28-17:39/11 19:34	06:25 20:05	05:44 20:31	05:25 20:31	06:03 20:02	06:34 19:14	07:05 18:23	17:35-17:56/21 16:42	06:41 16:29	07:13 16:29
13	07:22 16:51	06:56 17:28	06:15 18:01	17:27-17:40/13 19:35	06:23 20:06	05:43 20:31	05:25 20:31	06:04 20:01	06:35 19:12	07:06 18:22	17:35-17:57/22 16:41	06:42 16:29	07:14 16:29
14	07:22 16:52	06:55 17:30	06:13 18:02	17:27-17:42/15 19:36	06:22 20:07	05:42 20:32	05:25 20:30	06:05 19:59	06:36 19:10	07:07 18:20	17:34-17:57/23 16:41	06:43 16:29	07:15 16:29
15	07:22 16:53	06:54 17:31	06:11 18:04	17:26-17:42/16 19:37	06:20 20:08	05:41 20:32	05:24 20:30	06:06 19:58	06:37 19:09	07:08 18:19	17:34-17:56/22 16:40	06:45 16:30	07:16 16:30
16	07:21 16:54	06:53 17:32	06:10 18:05	17:25-17:43/18 19:38	06:19 20:09	05:40 20:32	05:24 20:29	06:07 19:57	06:38 19:07	07:09 18:17	17:33-17:54/21 16:39	06:46 16:30	07:17 16:30
17	07:21 16:55	06:51 17:33	06:08 18:06	17:26-17:45/19 19:39	06:17 20:10	05:39 20:33	05:25 20:29	06:08 19:55	06:39 19:05	07:11 18:16	17:33-17:52/19 16:38	06:47 16:30	07:18 16:30
18	07:20 16:56	06:50 17:35	06:06 18:07	17:25-17:45/20 19:40	06:16 20:11	05:38 20:33	05:25 20:28	06:09 19:54	06:40 19:04	07:12 18:14	17:33-17:51/18 16:37	06:48 16:31	07:19 16:31
19	07:20 16:58	06:48 17:36	06:05 18:08	17:26-17:44/18 19:41	06:14 20:12	05:37 20:33	05:25 20:27	06:10 19:52	06:41 19:02	07:13 18:13	17:33-17:49/16 16:36	06:49 16:31	07:20 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	17:26-17:42/16 19:42	06:12 20:13	05:36 20:34	05:25 20:26	06:11 19:51	06:42 19:00	07:14 18:11	17:35-17:48/13 16:35	06:51 16:31	07:21 16:31
21	07:19 17:00	06:46 17:38	06:01 18:10	17:28-17:41/13 19:43	06:11 20:14	05:35 20:34	05:25 20:26	06:12 19:49	06:43 18:58	07:15 18:10	17:36-17:46/10 16:35	06:52 16:32	07:22 16:32
22	07:18 17:01	06:44 17:39	06:00 18:11	17:30-17:38/8 19:44	06:09 20:15	05:34 20:34	05:25 20:25	06:13 19:48	06:44 18:57	07:16 18:08	18:13-18:25/12 16:34	06:53 16:32	07:23 16:32
23	07:17 17:02	06:43 17:41	05:58 18:12	17:03-17:19/16 19:45	06:08 20:16	05:34 20:34	05:25 20:24	06:14 19:46	06:45 18:55	07:17 18:07	18:11-18:26/15 16:34	06:54 16:33	07:24 16:33
24	07:17 17:04	06:41 17:42	05:56 18:13	17:01-17:20/19 19:46	06:07 20:17	05:33 20:34	05:26 20:23	06:15 19:45	06:46 18:53	07:19 18:05	18:09-18:27/18 16:33	06:55 16:33	07:25 16:33
25	07:16 17:05	06:40 17:43	05:55 18:14	17:02-17:21/19 19:48	06:05 20:18	05:32 20:35	05:26 20:22	06:16 19:43	06:47 18:52	07:20 17:04	18:08-18:28/20 16:33	06:56 16:34	07:26 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	17:01-17:22/21 19:49	06:04 20:19	05:31 20:35	05:26 20:21	06:17 19:42	06:48 18:50	07:21 17:03	18:07-18:27/20 16:32	06:57 16:34	07:27 16:34
27	07:14 17:07	06:37 17:45	05:51 18:17	17:01-17:24/23 19:50	06:02 20:20	05:31 20:35	05:27 20:21	06:18 19:40	06:49 18:48	07:22 17:01	18:07-18:25/18 16:32	06:59 16:35	07:28 16:35
28	07:13 17:08	06:35 17:47	05:50 18:18	17:01-17:24/23 19:51	06:01 20:20	05:30 20:35	05:27 20:20	06:19 19:39	06:50 18:47	07:23 17:00	18:06-18:24/18 16:31	07:00 16:36	07:29 16:36
29	07:13 17:10	06:34 17:48	05:49 18:19	17:02-17:25/24 19:52	06:00 20:21	05:29 20:35	05:27 20:19	06:20 19:37	06:51 18:45	07:24 16:58	18:06-18:22/16 16:31	07:01 16:37	07:30 16:37
30	07:12 17:11	06:33 17:49	05:48 18:20	17:03-17:26/25 19:53	06:00 20:22	05:28 20:35	05:26 20:18	06:21 19:35	06:52 18:43	07:25 16:57	18:06-18:20/14 16:30	07:02 16:37	07:31 16:37
31	07:11 17:12	06:32 17:50	05:47 18:21	17:04-17:27/26 19:54	06:00 20:23	05:27 20:36	05:25 20:17	06:22 19:34	06:53 18:44	07:26 16:56	16:56 16:38	07:03 16:38	07:32 16:38
Potential sun hours	297	297	369	399	449	453	459	428	375	345	281	298	287
Sum of minutes with flicker	0	160	269	0	0	0	0	0	156	0	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 13 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (13)

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	07:23 15:06-16:05/59 16:39	07:10 14:59-16:32/93 17:13 16:39-16:50/11	06:34 15:09-16:27/78 17:48 16:42-17:20/38	06:43 19:22	05:57 17:37-17:45/8 19:54	05:28 20:23
2	07:23 15:06-16:06/60 16:40	07:09 14:59-16:33/94 17:15 16:39-16:51/12	06:32 15:10-16:25/75 17:49 16:42-17:19/37	06:41 19:23	05:56 17:37-17:43/6 19:55	05:27 20:24
3	07:23 15:06-16:07/61 16:41	07:08 14:59-16:33/94 17:16 16:39-16:52/13	06:31 15:12-16:25/73 17:50 16:43-17:19/36	06:39 19:24	05:54 17:37-17:42/5 19:56	05:27 20:25
4	07:24 15:06-16:08/62 16:42	07:07 14:59-16:34/95 17:17 16:39-16:54/15	06:29 15:13-16:23/70 17:51 16:43-17:18/35	06:38 19:25	05:53 17:36-17:39/3 19:57	05:27 20:26
5	07:24 15:06-16:09/63 16:43	07:06 14:59-16:34/95 17:18 16:39-16:55/16	06:27 15:14-16:21/67 17:52 16:43-17:16/33	06:36 19:26	05:52 17:35-17:38/3 19:58	05:26 20:26
6	07:24 15:06-16:10/64 16:43	07:05 14:58-16:34/96 17:20 16:38-16:56/18	06:26 15:16-16:20/64 17:53 16:45-17:15/30	06:35 19:27	05:50 17:35-17:37/2 19:59	05:26 20:27
7	07:23 15:05-16:10/65 16:44	07:04 14:58-16:34/96 17:21 16:39-16:57/18	06:24 15:17-16:18/61 17:55 16:46-17:13/27	06:33 18:26-18:30/4 19:28	05:49 20:00	05:26 20:28
8	07:23 15:05-16:11/66 16:45	07:02 14:59-16:34/95 17:22 16:39-16:59/20	06:23 15:19-16:17/58 17:56 16:47-17:11/24	06:31 18:19-18:29/10 19:29	05:48 20:01	05:25 20:28
9	07:23 15:05-16:12/67 16:46	07:01 14:59-16:35/96 17:23 16:40-17:00/20	06:21 15:21-16:14/53 17:57 16:50-17:09/19	06:30 18:13-18:26/13 19:30	05:47 20:02	05:25 20:29
10	07:23 15:05-16:14/69 16:47	07:00 14:59-16:35/96 17:25 16:41-17:01/20	06:19 15:23-16:12/49 17:58 16:53-17:04/11	06:28 18:10-18:25/15 19:31	05:46 20:03	05:25 20:29
11	07:23 15:04-16:14/70 16:49	06:59 14:59-16:34/95 17:26 16:41-16:59/18	06:18 15:26-16:10/44 17:59	06:26 18:06-18:22/16 19:33	05:45 20:04	05:25 20:30
12	07:23 15:04-16:15/71 16:50	06:58 14:59-16:35/96 17:27 16:43-17:04/21	06:16 15:29-16:06/37 18:00	06:25 18:03-18:20/17 19:34	05:44 20:05	05:25 20:31
13	07:22 15:04-16:17/73 16:51	06:56 15:00-16:35/95 17:28 16:45-17:06/21	06:15 15:32-16:02/30 18:01	06:23 18:01-18:19/18 19:35	05:43 20:06	05:24 20:31
14	07:22 15:03-16:17/74 16:52	06:55 15:00-16:35/95 17:30 16:51-17:07/16	06:13 15:38-15:58/20 18:02	06:22 17:58-18:16/18 19:36	05:42 20:07	05:24 20:31
15	07:22 15:04-16:19/75 16:53	06:54 15:00-16:35/95 17:31 16:49-17:08/19	06:11 18:03 18:03	06:20 17:57-18:15/18 19:37	05:41 20:08	05:24 20:32
16	07:21 15:03-16:19/76 16:54	06:52 15:00-16:35/95 17:32 16:48-17:10/22	06:10 18:05 18:05	06:19 17:54-18:12/18 19:38	05:40 20:09	05:24 20:32
17	07:21 15:03-16:21/78 16:55	06:51 15:00-16:34/94 17:33 16:46-17:10/24	06:08 18:06 18:06	06:17 17:53-18:11/18 19:39	05:39 20:10	05:24 20:33
18	07:20 15:02-16:21/79 16:56	06:50 15:01-16:34/93 17:35 16:45-17:12/27	06:06 18:07 18:07	06:15 17:51-18:08/17 19:40	05:38 20:11	05:25 20:33
19	07:20 15:03-16:23/80 16:57	06:48 15:02-16:34/92 17:36 16:45-17:14/29	06:05 18:08 18:08	06:14 17:50-18:07/17 19:41	05:37 20:12	05:25 20:33
20	07:19 15:02-16:23/81 16:59	06:47 15:02-16:33/91 17:37 16:43-17:15/32	06:03 18:09 18:09	06:12 17:48-18:04/16 19:42	05:36 20:13	05:25 20:34
21	07:18 15:01-16:24/83 17:00	06:46 15:03-16:33/90 17:38 16:43-17:16/33	06:01 18:10 18:10	06:11 17:47-18:03/16 19:43	05:35 20:14	05:25 20:34
22	07:18 15:02-16:25/83 17:01	06:44 15:03-16:32/89 17:39 16:42-17:17/35	06:00 18:11 18:11	06:09 17:45-18:01/16 19:44	05:34 20:15	05:25 20:34
23	07:17 15:01-16:26/85 17:02	06:43 15:04-16:32/88 17:41 16:42-17:19/37	05:58 18:12 18:12	06:08 17:44-17:59/15 19:45	05:33 20:16	05:25 20:34
24	07:17 15:01-16:27/86 17:03	06:41 15:04-16:31/87 17:42 16:41-17:20/39	05:56 18:13 18:13	06:07 17:42-17:57/15 19:46	05:33 20:17	05:26 20:34
25	07:16 15:00-16:27/87 17:05	06:40 15:05-16:30/85 17:43 16:41-17:21/40	05:55 18:14 18:14	06:05 17:42-17:55/13 19:47	05:32 20:18	05:26 20:34
26	07:15 15:01-16:29/88 17:06	06:38 15:06-16:29/83 17:44 16:41-17:21/40	05:53 18:15 18:15	06:04 17:41-17:54/13 19:49	05:31 20:19	05:26 20:35
27	07:14 15:00-16:29/89 17:07	06:37 15:07-16:29/82 17:45 16:41-17:21/40	05:51 18:16 18:16	06:02 17:40-17:51/11 19:50	05:31 20:19	05:27 20:35
28	07:13 15:00-16:30/90 17:08	06:35 15:08-16:27/79 17:46 16:41-17:20/39	05:49 18:18 18:18	06:01 17:39-17:50/11 19:51	05:30 20:20	05:27 20:35
29	07:13 15:00-16:30/90 17:10	06:42 16:42-16:46/4 17:10 16:42-16:46/4	06:48 19:19	05:59 17:39-17:49/10 19:52	05:29 20:21	05:27 20:35
30	07:12 15:00-16:31/91 17:11	06:41 16:41-16:47/6 17:11 16:41-16:47/6	06:46 19:20	05:58 17:38-17:46/8 19:53	05:29 20:22	05:28 20:35
31	07:11 14:59-16:32/93 17:12	06:40 16:40-16:48/8 17:12 16:40-16:48/8	06:44 19:21	05:57 20:23	05:28 20:23	05:28 20:35
Potential sun hours	297	297	369	399	449	453
Sum of minutes with flicker	2377	3269	1069	343	27	0

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

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

SHADOW - Calendar per WTG

WTG: 13 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (13)

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	05:28 20:34	05:52 20:15	06:23 18:05-18:21/16 19:32	06:53 16:09-16:44/35 18:41	06:28 14:28-16:04/96 16:55 16:10-16:30/20	07:03 14:46-15:56/70 16:30	
2	05:29 20:34	05:53 20:14	06:24 18:08-18:23/15 19:31	06:54 16:06-16:47/41 18:40	06:29 14:29-16:05/96 16:53 16:10-16:30/20	07:04 14:48-15:57/69 16:30	
3	05:29 20:34	05:54 20:13	06:25 18:11-18:24/13 19:29	06:55 16:03-16:49/46 18:38 17:35-17:39/4	06:30 14:28-16:04/96 16:52 16:09-16:28/19	07:05 14:49-15:57/68 16:30	
4	05:30 20:34	05:55 20:12	06:26 18:16-18:26/10 19:27	06:57 16:00-16:51/51 18:36 17:29-17:45/16	06:31 14:28-16:04/96 16:51 16:09-16:27/18	07:06 14:50-15:56/66 16:29	
5	05:30 20:34	05:56 20:11	06:27 18:23-18:27/4 19:26	06:58 15:57-16:53/56 18:35 17:26-17:47/21	06:33 14:28-16:03/95 16:50 16:08-16:25/17	07:07 14:51-15:56/65 16:29	
6	05:31 20:34	05:57 20:10	06:28 19:24	06:59 15:55-16:54/59 18:33 17:23-17:49/26	06:34 14:29-16:04/95 16:49 16:09-16:25/16	07:08 14:52-15:56/64 16:29	
7	05:32 20:33	05:58 20:08	17:45-17:47/2 19:22	06:29 19:22	07:00 15:52-16:55/63 18:31 17:21-17:50/29	06:35 14:29-16:03/94 16:47 16:09-16:23/14	07:09 14:53-15:56/63 16:29
8	05:32 20:33	05:59 20:07	17:45-17:48/3 19:21	06:30 19:21	07:01 15:50-16:56/66 18:30 17:20-17:51/31	06:36 14:29-16:03/94 16:46 16:09-16:22/13	07:10 14:53-15:55/62 16:29
9	05:33 20:33	06:00 20:06	17:45-17:49/4 19:19	06:31 19:19	07:02 15:48-16:57/69 18:28 17:18-17:52/34	06:37 14:30-16:03/93 16:45 16:10-16:22/12	07:11 14:54-15:55/61 16:29
10	05:34 20:32	06:01 20:05	17:46-17:51/5 19:17	06:32 19:17	07:03 15:46-16:58/72 18:27 17:17-17:52/35	06:39 14:30-16:03/93 16:44 16:10-16:20/10	07:11 14:55-15:55/60 16:29
11	05:34 20:32	06:02 20:03	17:46-17:52/6 19:15	06:33 19:15	07:04 15:44-16:59/75 18:25 17:16-17:53/37	06:40 14:30-16:02/92 16:43 16:11-16:19/8	07:12 14:56-15:55/59 16:29
12	05:35 20:31	06:03 20:02	17:46-17:54/8 19:14	06:34 19:14	07:05 15:43-16:59/76 18:23 17:15-17:53/38	06:41 14:31-16:02/91 16:42 16:12-16:18/6	07:13 14:57-15:55/58 16:29
13	05:36 20:31	06:04 20:01	17:46-17:55/9 19:12	06:35 19:12	07:06 15:41-17:00/79 18:22 17:14-17:53/39	06:42 14:32-16:02/90 16:41 16:14-16:17/3	07:14 14:58-15:55/57 16:29
14	05:36 20:30	06:05 19:59	17:47-17:57/10 19:10	06:36 19:10	07:07 15:41-17:01/80 18:20 17:14-17:54/40	06:43 14:32-16:02/90 16:40 16:15-16:16/1	07:15 14:58-15:54/56 16:29
15	05:37 20:30	06:06 19:58	17:47-17:58/11 19:09	06:37 19:09	07:08 15:39-17:02/83 18:19 17:14-17:54/40	06:45 14:32-16:01/89 16:40	07:15 15:00-15:55/55 16:30
16	05:38 20:29	06:07 19:57	17:48-18:00/12 19:07	06:38 19:07	07:09 15:38-17:02/84 18:17 17:13-17:53/40	06:46 14:34-16:02/88 16:39	07:16 15:01-15:55/54 16:30
17	05:39 20:28	06:08 19:55	17:48-18:01/13 19:05	06:39 19:05	07:11 15:36-17:02/86 18:16 17:13-17:52/39	06:47 14:34-16:01/87 16:38	07:17 15:01-15:55/54 16:30
18	05:40 20:28	06:09 19:54	17:49-18:02/13 19:04	06:40 19:04	07:12 15:35-17:02/87 18:14 17:13-17:51/38	06:48 14:35-16:01/86 16:37	07:18 15:02-15:56/54 16:30
19	05:40 20:27	06:10 19:52	17:49-18:04/15 19:02	06:41 19:02	07:13 15:34-17:03/89 18:13 17:13-17:49/36	06:49 14:35-16:00/85 16:36	07:18 15:03-15:56/53 16:31
20	05:41 20:26	06:11 19:51	17:50-18:05/15 19:00	06:42 19:00	07:14 15:34-17:04/90 18:11 17:14-17:48/34	06:50 14:37-16:00/83 16:36	07:19 15:03-15:56/53 16:31
21	05:42 20:26	06:12 19:49	17:51-18:07/16 18:58	06:43 18:58	07:15 15:33-17:04/91 18:10 17:14-17:46/32	06:52 14:37-16:00/83 16:35	07:19 15:04-15:57/53 16:32
22	05:43 20:25	06:13 19:48	17:51-18:07/16 18:57	06:44 18:57	07:16 15:32-17:04/92 18:08 17:14-17:45/31	06:53 14:38-15:59/81 16:34	07:20 15:04-15:57/53 16:32
23	05:44 20:24	06:14 19:46	17:52-18:09/17 18:55	06:45 18:55	07:17 15:31-17:04/93 18:07 17:15-17:43/28	06:54 14:39-15:59/80 16:34	07:20 15:05-15:58/53 16:33
24	05:45 20:23	06:15 19:45	17:53-18:10/17 18:53	06:46 18:53	07:18 15:30-17:04/94 18:05 17:15-17:41/26	06:55 14:39-15:58/79 16:33	07:21 15:05-15:58/53 16:33
25	05:46 20:22	06:16 19:43	17:54-18:11/17 18:52	06:47 18:52	06:20 14:31-16:05/94 17:04 16:17-16:41/24	06:56 14:41-15:59/78 16:33	07:21 15:05-15:58/53 16:34
26	05:47 20:21	06:17 19:42	17:55-18:13/18 18:50	06:48 18:50	06:21 14:30-16:04/94 17:02 16:18-16:39/21	06:57 14:42-15:58/76 16:32	07:22 15:06-16:00/54 16:34
27	05:48 20:20	06:18 19:40	17:56-18:14/18 18:48	06:49 18:48	06:22 14:29-16:04/95 17:01 16:19-16:37/18	06:58 14:43-15:58/75 16:32	07:22 15:06-16:00/54 16:35
28	05:48 20:20	06:19 19:39	17:58-18:16/18 18:46	06:50 18:46	06:23 14:29-16:04/95 17:00 16:17-16:36/19	07:00 14:43-15:57/74 16:31	07:22 15:06-16:01/55 16:36
29	05:49 20:19	06:20 19:37	17:59-18:17/18 18:45	06:51 18:45	06:24 14:29-16:05/96 16:58 16:15-16:35/20	07:01 14:44-15:57/73 16:31	07:23 15:05-16:01/56 16:36
30	05:50 20:18	06:21 19:35	18:01-18:19/18 18:43	06:52 18:43	06:25 14:29-16:05/96 16:57 16:13-16:28/15	07:02 14:45-15:57/72 16:30	07:23 15:06-16:03/57 16:37
31	05:51 20:16	06:22 19:34	18:03-18:20/17 18:41	06:27 18:41	14:28-16:04/96 16:56 16:11-16:29/18		07:23 15:06-16:04/58 16:38
Potential sun hours	459	428	375	345	298	277	1800
Sum of minutes with flicker	0	316	97	3255			

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: 14 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (14)

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	07:23 13:40-14:28/48 16:39	07:10 17:13	06:34 17:48	06:43 07:24-08:30/66 19:22	05:57 08:08-08:14/6 19:54	05:28 20:23
2	07:23 13:41-14:28/47 16:40	07:09 17:15	06:32 17:49	06:41 07:27-08:31/64 19:23	05:55 08:10-08:13/3 19:55	05:27 20:24
3	07:23 13:43-14:27/44 16:41	07:08 17:16	06:31 06:50-06:53/3 17:50	06:39 07:28-08:31/63 19:24	05:54 08:11-08:12/1 19:56	05:27 20:25
4	07:23 13:44-14:27/43 16:42	07:07 17:17	06:29 06:48-06:55/7 17:51	06:38 07:29-08:30/61 19:25	05:53 19:57	05:26 20:26
5	07:23 13:46-14:27/41 16:42	07:06 17:18	06:27 06:46-06:57/11 17:52	06:36 07:31-08:31/60 19:26	05:52 19:58	05:26 20:26
6	07:23 13:47-14:26/39 16:43	07:05 17:20	06:26 06:45-06:59/14 17:53	06:34 07:32-08:31/59 19:27	05:50 19:59	05:26 20:27
7	07:23 13:48-14:25/37 16:44	07:03 17:21	06:24 06:43-06:59/16 17:54	06:33 07:33-08:30/57 19:28	05:49 20:00	05:25 20:28
8	07:23 13:50-14:24/34 16:45	07:02 17:22	06:23 06:42-07:00/18 17:56	06:31 07:35-08:30/55 19:29	05:48 20:01	05:25 20:28
9	07:23 13:53-14:23/30 16:46	07:01 17:23	06:21 06:40-07:00/20 17:57	06:30 07:36-08:30/54 19:30	05:47 20:02	05:25 20:29
10	07:23 13:55-14:22/27 16:47	07:00 17:25	06:19 06:38-07:00/22 17:58	06:28 07:38-08:30/52 19:31	05:46 20:03	05:25 20:29
11	07:23 13:58-14:20/22 16:48	06:59 17:26	06:18 06:37-07:01/24 17:59	06:26 07:39-08:29/50 19:32	05:45 20:04	05:25 20:30
12	07:22 14:02-14:17/15 16:49	06:58 17:27	06:16 06:35-07:00/25 18:00	06:25 07:40-08:29/49 19:34	05:44 20:05	05:25 20:30
13	07:22 16:51	06:56 17:28	06:14 06:33-06:59/26 18:01	06:23 07:42-08:29/47 19:35	05:42 20:06	05:24 20:31
14	07:22 16:52	06:55 17:30	06:13 06:32-07:00/28 18:02	06:22 07:43-08:28/45 19:36	05:41 20:07	05:24 20:31
15	07:21 16:53	06:54 17:31	06:11 06:30-07:06/36 18:03	06:20 07:45-08:28/43 19:37	05:40 20:08	05:24 20:32
16	07:21 16:54	06:52 17:32	06:10 06:29-07:10/41 18:04	06:18 07:46-08:27/41 19:38	05:39 20:09	05:24 20:32
17	07:21 16:55	06:51 17:33	06:08 06:31-07:14/43 18:06	06:17 07:48-08:27/39 19:39	05:39 20:10	05:24 20:33
18	07:20 16:56	06:50 17:34	06:06 06:30-07:17/47 18:07	06:15 07:49-08:25/36 19:40	05:38 20:11	05:24 20:33
19	07:20 16:57	06:48 17:36	06:05 06:27-07:18/51 18:08	06:14 07:51-08:25/34 19:41	05:37 20:12	05:25 20:33
20	07:19 16:59	06:47 17:37	06:03 06:24-07:20/56 18:09	06:12 07:52-08:24/32 19:42	05:36 20:13	05:25 20:34
21	07:18 17:00	06:46 17:38	06:01 06:23-07:22/59 18:10	06:11 07:54-08:24/30 19:43	05:35 20:14	05:25 20:34
22	07:18 17:01	06:44 17:39	05:59 06:20-07:23/63 18:11	06:09 07:55-08:22/27 19:44	05:34 20:15	05:25 20:34
23	07:17 17:02	06:43 17:40	05:58 06:18-07:24/66 18:12	06:08 07:57-08:22/25 19:45	05:33 20:16	05:25 20:34
24	07:16 17:03	06:41 17:42	05:56 06:17-07:26/69 18:13	06:06 07:58-08:20/22 19:46	05:33 20:17	05:26 20:34
25	07:16 17:05	06:40 17:43	05:54 06:15-07:27/72 18:14	06:05 08:00-08:20/20 19:47	05:32 20:18	05:26 20:34
26	07:15 17:06	06:38 17:44	05:53 06:15-07:27/72 18:15	06:04 08:01-08:19/18 19:48	05:31 20:19	05:26 20:34
27	07:14 17:07	06:37 17:45	05:51 06:18-07:29/71 18:16	06:02 08:02-08:18/16 19:50	05:31 20:19	05:27 20:35
28	07:13 17:08	06:35 17:46	05:49 06:19-07:29/70 18:17	06:01 08:04-08:17/13 19:51	05:30 20:20	05:27 20:35
29	07:12 17:10		06:48 07:20-08:29/69 19:19	05:59 08:06-08:16/10 19:52	05:29 20:21	05:27 20:35
30	07:12 17:11		06:46 07:22-08:30/68 19:20	05:58 08:06-08:14/8 19:53	05:29 20:22	05:28 20:34
31	07:11 17:12		06:44 07:23-08:30/67 19:21		05:28 20:23	
Potential sun hours	297	297	369	399	449	453
Sum of minutes with flicker	427	0	1234	1196	10	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: 14 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (14)

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	05:28 20:34	05:52 20:15	06:23 07:38-08:28/50 19:32	06:53 07:13-07:39/26 18:41	06:28 16:54	07:03 13:40-14:01/21 16:30
2	05:29 20:34	05:53 20:14	06:24 07:36-08:28/52 19:30	06:54 07:15-07:39/24 18:40	06:29 16:53	07:04 13:38-14:04/26 16:30
3	05:29 20:34	05:54 20:13	06:25 07:34-08:28/54 19:29	06:55 07:16-07:39/23 18:38	06:30 16:52	07:05 13:37-14:07/30 16:29
4	05:30 20:34	05:55 20:12	06:26 07:32-08:27/55 19:27	06:56 07:17-07:38/21 18:36	06:31 16:51	07:06 13:35-14:09/34 16:29
5	05:30 20:34	05:56 20:11	06:27 07:30-08:27/57 19:26	06:58 07:18-07:37/19 18:35	06:32 16:50	07:07 13:34-14:11/37 16:29
6	05:31 20:33	05:57 20:10	06:28 07:28-08:27/59 19:24	06:59 07:19-07:36/17 18:33	06:34 16:49	07:08 13:33-14:12/39 16:29
7	05:32 20:33	05:58 20:08	06:29 07:26-08:26/60 19:22	07:00 07:20-07:35/15 18:31	06:35 16:47	07:09 13:32-14:13/41 16:29
8	05:32 20:33	05:59 20:07	06:30 07:24-08:26/62 19:20	07:01 07:21-07:33/12 18:30	06:36 16:46	07:10 13:31-14:14/43 16:29
9	05:33 20:33	06:00 20:06	06:31 07:22-08:25/63 19:19	07:02 07:22-07:31/9 18:28	06:37 16:45	07:11 13:31-14:15/44 16:29
10	05:33 20:32	06:01 08:20-08:21/1 20:05	06:32 07:20-08:24/64 19:17	07:03 07:23-07:29/6 18:26	06:38 16:44	07:11 13:31-14:17/46 16:29
11	05:34 20:32	06:02 08:18-08:22/4 20:03	06:33 07:18-08:23/65 19:15	07:04 07:24-07:25/1 18:25	06:40 16:43	07:12 13:30-14:18/48 16:29
12	05:35 20:31	06:03 08:16-08:23/7 20:02	06:34 07:16-08:22/66 19:14	07:05 18:23	06:41 16:42	07:13 13:30-14:19/49 16:29
13	05:36 20:31	06:04 08:15-08:23/8 20:01	06:35 07:14-08:21/67 19:12	07:06 18:22	06:42 16:41	07:14 13:31-14:20/49 16:29
14	05:36 20:30	06:05 08:13-08:24/11 19:59	06:36 07:11-08:19/68 19:10	07:07 18:20	06:43 16:40	07:15 13:30-14:20/50 16:29
15	05:37 20:30	06:06 08:11-08:25/14 19:58	06:37 07:08-08:18/70 19:09	07:08 18:19	06:44 16:40	07:15 13:30-14:21/51 16:29
16	05:38 20:29	06:07 08:10-08:26/16 19:57	06:38 07:06-08:17/71 19:07	07:09 18:17	06:46 16:39	07:16 13:31-14:22/51 16:30
17	05:39 20:28	06:08 08:08-08:26/18 19:55	06:39 07:04-08:16/72 19:05	07:10 18:15	06:47 16:38	07:17 13:30-14:22/52 16:30
18	05:40 20:28	06:09 08:06-08:27/21 19:54	06:40 07:02-08:14/72 19:03	07:12 18:14	06:48 16:37	07:17 13:31-14:23/52 16:30
19	05:40 20:27	06:10 08:04-08:27/23 19:52	06:41 07:03-08:13/70 19:02	07:13 18:12	06:49 16:36	07:18 13:31-14:24/53 16:31
20	05:41 20:26	06:11 08:02-08:28/26 19:51	06:42 07:04-08:11/67 19:00	07:14 18:11	06:50 16:36	07:19 13:31-14:24/53 16:31
21	05:42 20:26	06:12 08:00-08:27/27 19:49	06:43 07:05-08:09/64 18:58	07:15 18:09	06:52 16:35	07:19 13:32-14:25/53 16:32
22	05:43 20:25	06:13 07:58-08:27/29 19:48	06:44 07:07-08:07/60 18:57	07:16 18:08	06:53 16:34	07:20 13:32-14:25/53 16:32
23	05:44 20:24	06:14 07:56-08:28/32 19:46	06:45 07:08-08:05/57 18:55	07:17 18:07	06:54 16:34	07:20 13:33-14:26/53 16:33
24	05:45 20:23	06:15 07:54-08:28/34 19:45	06:46 07:10-08:03/53 18:53	07:18 18:05	06:55 16:33	07:21 13:33-14:26/53 16:33
25	05:46 20:22	06:16 07:52-08:28/36 19:43	06:47 07:12-08:00/48 18:52	07:19 17:04	06:56 16:32	07:21 13:34-14:26/52 16:34
26	05:47 20:21	06:17 07:50-08:28/38 19:42	06:48 07:12-07:57/45 18:50	07:20 17:02	06:57 16:32	07:22 13:35-14:27/52 16:34
27	05:47 20:20	06:18 07:48-08:29/41 19:40	06:49 07:11-07:53/42 18:48	07:22 17:01	06:58 16:31	07:22 13:35-14:27/52 16:35
28	05:48 20:19	06:19 07:46-08:29/43 19:38	06:50 07:10-07:49/39 18:46	07:23 17:00	07:00 16:31	07:22 13:36-14:27/51 16:36
29	05:49 20:18	06:20 07:44-08:29/45 19:37	06:51 07:11-07:42/31 18:45	07:24 16:58	07:01 16:31	07:23 13:37-14:27/50 16:36
30	05:50 20:17	06:21 07:42-08:29/47 19:35	06:52 07:12-07:39/27 18:43	07:25 16:57	07:02 13:43-13:58/15 16:30	07:23 13:38-14:28/50 16:37
31	05:51 20:16	06:22 07:40-08:28/48 19:34		06:27 16:56		07:23 13:39-14:28/49 16:38
Potential sun hours	459	428	375	345	298	287
Sum of minutes with flicker	0	569	1730	173	15	1437

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

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

WTG: 15 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (15)

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	07:23 07:46-08:06/20 16:39	07:10 07:30-07:46/16 17:13	06:34 06:53-06:54/1 17:48	06:43 19:22	05:57 19:54	05:28 20:23
2	07:23 07:46-08:06/20 16:40	07:09 07:29-07:47/18 17:15	06:32 06:51-06:55/4 17:49	06:41 19:23	05:55 19:55	05:27 20:24
3	07:23 07:46-08:07/21 16:41	07:08 07:28-07:47/19 17:16	06:31 06:50-06:57/7 17:50	06:39 19:24	05:54 19:56	05:27 20:25
4	07:23 07:46-08:07/21 16:42	07:07 07:27-07:48/21 17:17	06:29 06:48-06:57/9 17:51	06:38 19:25	05:53 19:57	05:26 20:26
5	07:23 07:46-08:07/21 16:42	07:06 07:26-07:48/22 17:18	06:27 06:46-06:57/11 17:52	06:36 19:26	05:52 19:58	05:26 20:26
6	07:23 07:46-08:08/22 16:43	07:05 07:24-07:47/23 17:20	06:26 06:45-06:58/13 17:53	06:34 19:27	05:50 19:59	05:26 20:27
7	07:23 07:45-08:07/22 16:44	07:03 07:23-07:47/24 17:21	06:24 06:43-06:57/14 17:54	06:33 19:28	05:49 20:00	05:26 20:28
8	07:23 07:45-08:08/23 16:45	07:02 07:22-07:47/25 17:22	06:23 06:42-06:57/15 17:56	06:31 19:29	05:48 20:01	05:25 20:28
9	07:23 07:45-08:08/23 16:46	07:01 07:21-07:47/26 17:23	06:21 06:40-06:57/17 17:57	06:30 19:30	05:47 20:02	05:25 20:29
10	07:23 07:45-08:09/24 16:47	07:00 07:20-07:47/27 17:25	06:19 06:38-06:55/17 17:58	06:28 19:31	05:46 20:03	05:25 20:29
11	07:23 07:44-08:08/24 16:48	06:59 07:18-07:46/28 17:26	06:18 06:37-06:55/18 17:59	06:26 19:32	05:45 20:04	05:25 20:30
12	07:22 07:44-08:09/25 16:50	06:58 07:17-07:45/28 17:27	06:16 06:35-06:53/18 18:00	06:25 19:34	05:44 20:05	05:25 20:30
13	07:22 07:44-08:09/25 16:51	06:56 07:17-07:44/27 17:28	06:14 06:36-06:51/15 18:01	06:23 19:35	05:42 20:06	05:24 20:31
14	07:22 07:45-08:09/24 16:52	06:55 07:18-07:44/26 17:30	06:13 06:39-06:49/10 18:02	06:22 19:36	05:41 20:07	05:24 20:31
15	07:21 07:46-08:09/23 16:53	06:54 07:18-07:42/24 17:31	06:11 18:03	06:20 19:37	05:40 20:08	05:24 20:32
16	07:21 07:46-08:08/22 16:54	06:52 07:20-07:41/21 17:32	06:10 18:04	06:18 19:38	05:39 20:09	05:24 20:32
17	07:21 07:48-08:08/20 16:55	06:51 07:20-07:39/19 17:33	06:08 18:06	06:17 19:39	05:39 20:10	05:24 20:33
18	07:20 07:49-08:07/18 16:56	06:50 07:23-07:37/14 17:34	06:06 18:07	06:15 19:40	05:38 20:11	05:24 20:33
19	07:20 07:51-08:07/16 16:57	06:48 07:27-07:33/6 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33
20	07:19 07:52-08:06/14 16:59	06:47 17:37	06:03 18:09	06:12 19:42	05:36 20:13	05:25 20:33
21	07:18 07:54-08:04/10 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:35 20:14	05:25 20:34
22	07:18 07:59-08:01/2 17:01	06:44 17:39	05:59 18:11	06:09 19:44	05:34 20:15	05:25 20:34
23	07:17 17:02	06:43 17:40	05:58 18:12	06:08 19:45	05:33 20:16	05:25 20:34
24	07:16 17:03	06:41 17:42	05:56 18:13	06:06 19:46	05:33 20:17	05:26 20:34
25	07:16 07:36-07:37/1 17:05	06:40 17:43	05:54 18:14	06:05 19:47	05:32 20:18	05:26 20:34
26	07:15 07:36-07:40/4 17:06	06:38 17:44	05:53 18:15	06:04 19:48	05:31 20:19	05:26 20:34
27	07:14 07:35-07:42/7 17:07	06:37 17:45	05:51 18:16	06:02 19:50	05:31 20:19	05:27 20:35
28	07:13 07:34-07:43/9 17:08	06:35 17:46	05:49 18:17	06:01 19:51	05:30 20:20	05:27 20:35
29	07:12 07:33-07:44/11 17:10		06:48 19:19	05:59 19:52	05:29 20:21	05:27 20:35
30	07:12 07:32-07:45/13 17:11		06:46 19:20	05:58 19:53	05:29 20:22	05:28 20:34
31	07:11 07:31-07:46/15 17:12		06:44 19:21		05:28 20:23	
Potential sun hours	297	297	369	399	449	453
Sum of minutes with flicker	500	414	169	0	0	0

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

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

SHADOW - Calendar per WTG

WTG: 15 - VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (15)

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

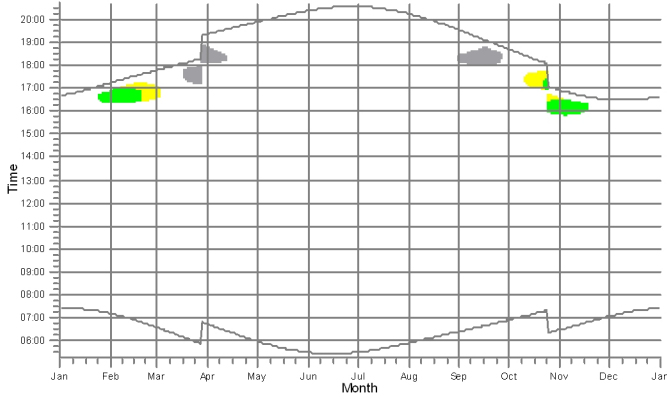
	July	August	September	October	November	December
1	05:28 20:34	05:52 20:15	06:23 19:32	06:53 07:14-07:31/17 18:41	06:28 06:49-07:16/27 16:54	07:03 07:26-07:50/24 16:30
2	05:29 20:34	05:53 20:14	06:24 19:30	06:54 07:15-07:33/18 18:40	06:29 06:51-07:17/26 16:53	07:04 07:28-07:52/24 16:30
3	05:29 20:34	05:54 20:13	06:25 19:29	06:55 07:16-07:34/18 18:38	06:30 06:52-07:17/25 16:52	07:05 07:29-07:52/23 16:29
4	05:30 20:34	05:55 20:12	06:26 19:27	06:56 07:17-07:34/17 18:36	06:31 06:53-07:17/24 16:51	07:06 07:30-07:53/23 16:29
5	05:30 20:34	05:56 20:11	06:27 19:25	06:57 07:18-07:34/16 18:35	06:32 06:54-07:17/23 16:50	07:07 07:31-07:53/22 16:29
6	05:31 20:33	05:57 20:10	06:28 19:24	06:59 07:19-07:34/15 18:33	06:34 06:56-07:18/22 16:49	07:08 07:32-07:54/22 16:29
7	05:32 20:33	05:58 20:08	06:29 19:22	07:00 07:20-07:33/13 18:31	06:35 06:57-07:18/21 16:47	07:09 07:33-07:54/21 16:29
8	05:32 20:33	05:59 20:07	06:30 19:20	07:01 07:21-07:33/12 18:30	06:36 06:58-07:17/19 16:46	07:10 07:33-07:54/21 16:29
9	05:33 20:32	06:00 20:06	06:31 19:19	07:02 07:22-07:32/10 18:28	06:37 07:00-07:18/18 16:45	07:10 07:34-07:55/21 16:29
10	05:33 20:32	06:01 20:05	06:32 19:17	07:03 07:23-07:31/8 18:26	06:38 07:01-07:17/16 16:44	07:11 07:35-07:55/20 16:29
11	05:34 20:32	06:02 20:03	06:33 19:15	07:04 07:24-07:29/5 18:25	06:40 07:02-07:16/14 16:43	07:12 07:36-07:56/20 16:29
12	05:35 20:31	06:03 20:02	06:34 19:14	07:05 07:25-07:28/3 18:23	06:41 07:03-07:16/13 16:42	07:13 07:37-07:56/19 16:29
13	05:36 20:31	06:04 20:01	06:35 19:12	07:06 18:22	06:42 07:05-07:16/11 16:41	07:14 07:38-07:57/19 16:29
14	05:36 20:30	06:05 19:59	06:36 19:10	07:07 18:20	06:43 07:06-07:15/9 16:40	07:15 07:38-07:57/19 16:29
15	05:37 20:30	06:06 19:58	06:37 19:09	07:08 18:19	06:44 07:07-07:13/6 16:40	07:15 07:39-07:58/19 16:29
16	05:38 20:29	06:07 19:56	06:38 19:07	07:09 18:17	06:46 07:09-07:13/4 16:39	07:16 07:40-07:59/19 16:30
17	05:39 20:28	06:08 19:55	06:39 19:05	07:10 18:15	06:47 07:10-07:11/1 16:38	07:17 07:40-07:59/19 16:30
18	05:40 20:28	06:09 19:54	06:40 19:03	07:12 18:14	06:48 16:37	07:17 07:41-08:00/19 16:30
19	05:40 20:27	06:10 19:52	06:41 19:02	07:13 18:12	06:49 16:36	07:18 07:42-08:01/19 16:31
20	05:41 20:26	06:11 19:51	06:42 19:00	07:14 18:11	06:50 07:34-07:36/2 16:36	07:19 07:42-08:01/19 16:31
21	05:42 20:26	06:12 19:49	06:43 18:58	07:15 18:09	06:52 07:30-07:40/10 16:35	07:19 07:43-08:02/19 16:32
22	05:43 20:25	06:13 19:48	06:44 18:57	07:16 18:08	06:53 07:28-07:42/14 16:34	07:20 07:43-08:02/19 16:32
23	05:44 20:24	06:14 19:46	06:45 18:55	07:17 07:55-08:05/10 18:07	06:54 07:27-07:43/16 16:34	07:20 07:44-08:03/19 16:33
24	05:45 20:23	06:15 19:45	06:46 18:53	07:18 07:52-08:07/15 18:05	06:55 07:26-07:44/18 16:33	07:21 07:44-08:03/19 16:33
25	05:46 20:22	06:16 19:43	06:47 18:51	06:19 06:51-07:10/19 17:04	06:56 07:26-07:46/20 16:32	07:21 07:44-08:03/19 16:34
26	05:47 20:21	06:17 19:42	06:48 18:50	06:21 06:49-07:11/22 17:02	06:57 07:25-07:47/22 16:32	07:22 07:45-08:04/19 16:34
27	05:47 20:20	06:18 19:40	06:49 18:48	06:22 06:47-07:12/25 17:01	06:58 07:25-07:48/23 16:32	07:22 07:45-08:04/19 16:35
28	05:48 20:19	06:19 19:38	06:50 18:46	06:23 06:46-07:13/27 17:00	06:59 07:25-07:49/24 16:31	07:22 07:45-08:04/19 16:36
29	05:49 20:18	06:20 19:37	06:51 07:20-07:27/7 18:45	06:24 06:46-07:14/28 16:58	07:01 07:25-07:49/24 16:31	07:22 07:45-08:04/19 16:36
30	05:50 20:17	06:21 19:35	06:52 07:16-07:30/14 18:43	06:25 06:47-07:15/28 16:57	07:02 07:25-07:50/25 16:30	07:23 07:46-08:05/19 16:37
31	05:51 20:16	06:22 19:34		06:27 06:48-07:15/27 16:56		07:23 07:46-08:05/19 16:38
Potential sun hours	459	428	375	345	298	287
Sum of minutes with flicker	0	0	21	353	477	621

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

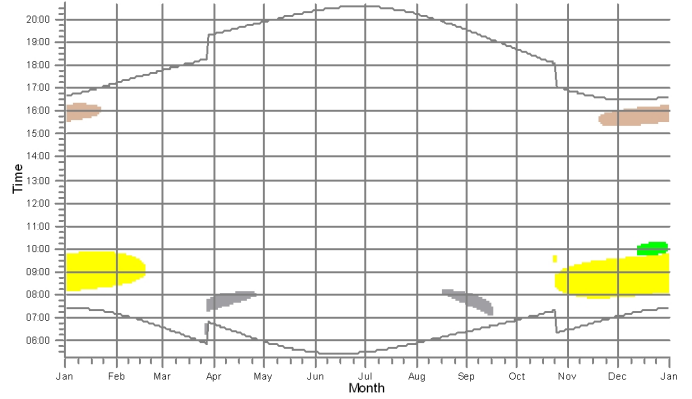
Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

SHADOW - Calendar per WTG, graphical

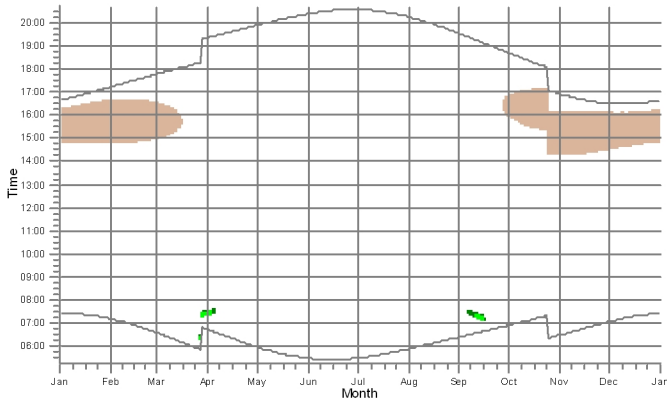
1: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (1)



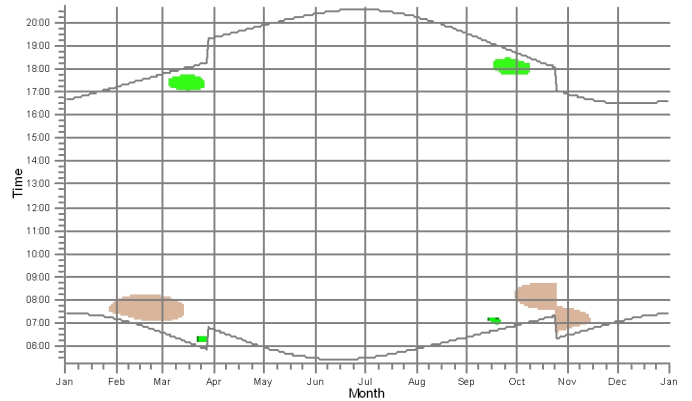
2: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (2)



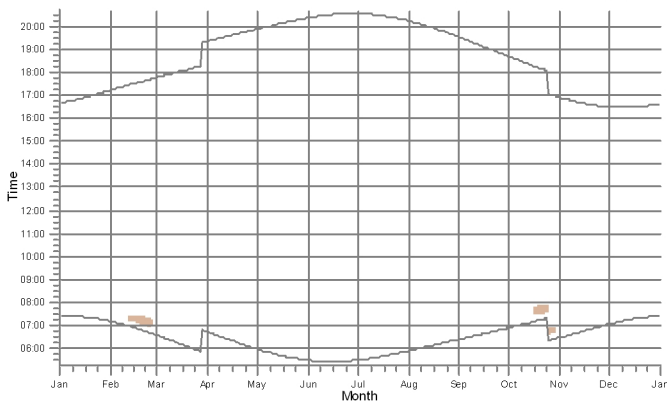
3: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (3)



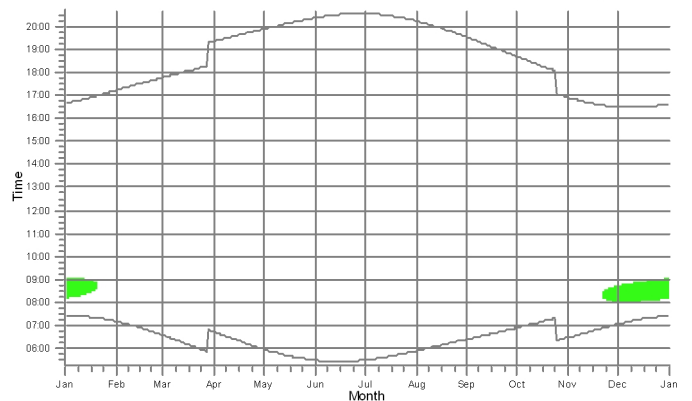
4: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (4)









5: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (5)



6: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (6)

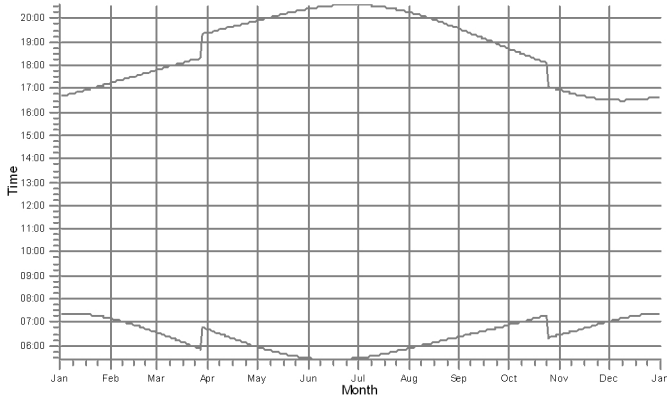


Shadow receptors

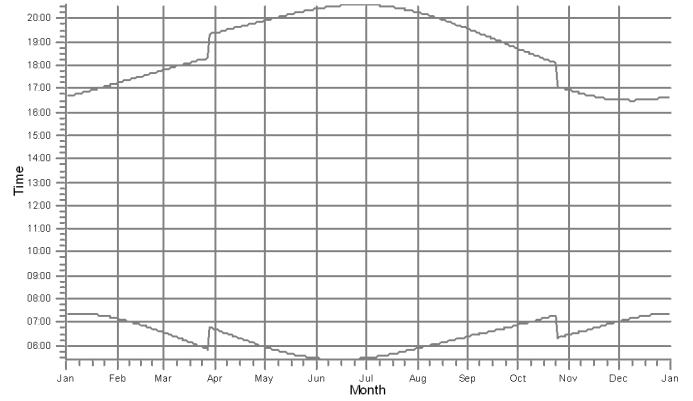
- | | | |
|---|--|--|
|  A: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (1) |  I: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (9) |  Q: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (17) |
|  B: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (2) |  P: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (16) |  R: Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 0,0° (18) |

SHADOW - Calendar per WTG, graphical

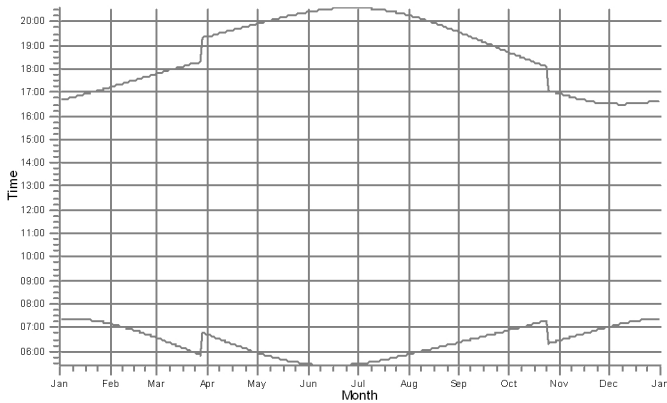
7: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (7)



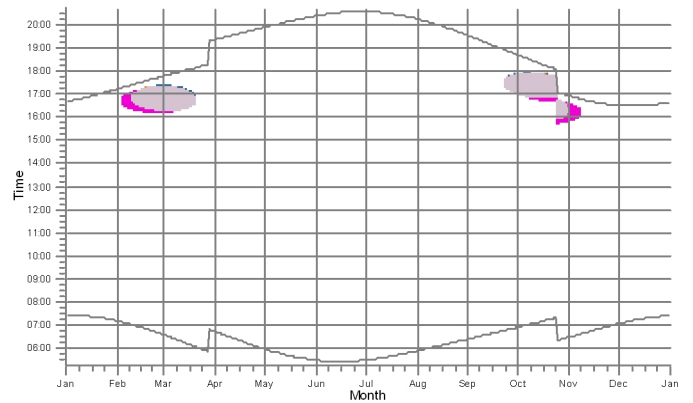
8: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (8)



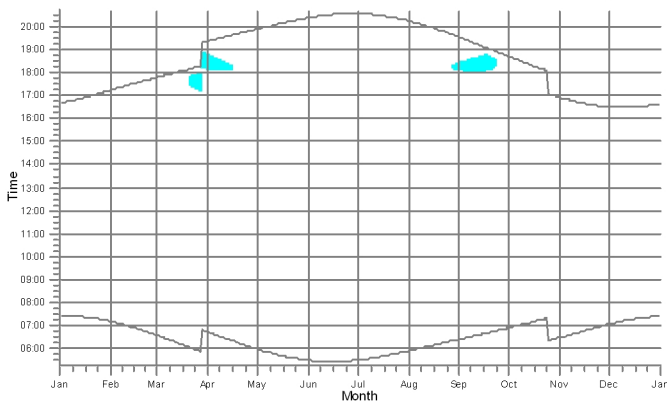
9: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (9)



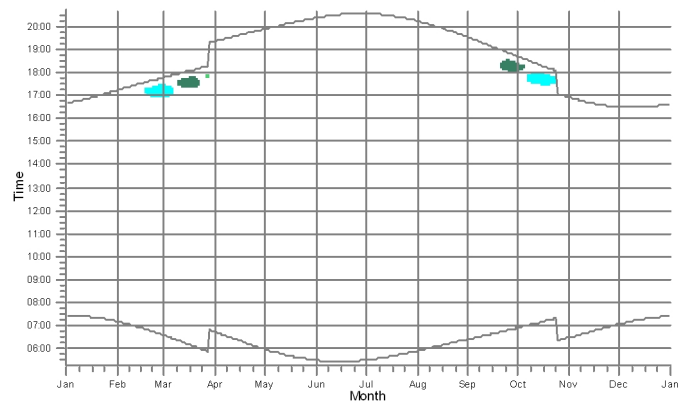
10: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (10)










11: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (11)



12: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (12)

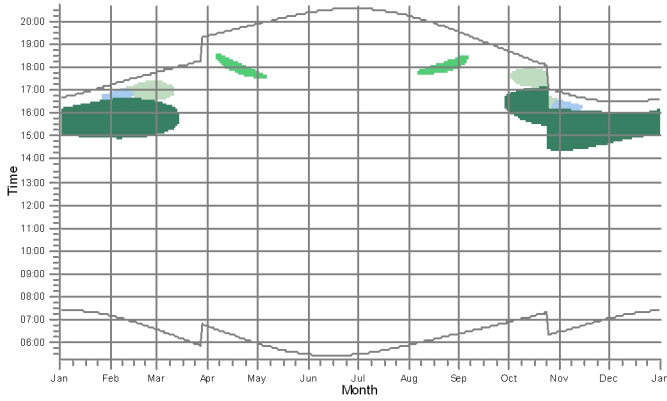


Shadow receptors

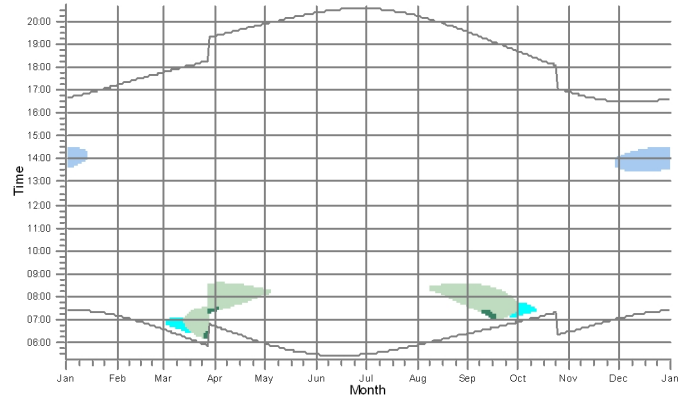
- | | | |
|--|---|---|
|  M: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (13) |  X: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (24) |  AC: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (29) |
|  V: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (22) |  Y: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (25) | |
|  W: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (23) |  AB: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (28) | |

SHADOW - Calendar per WTG, graphical

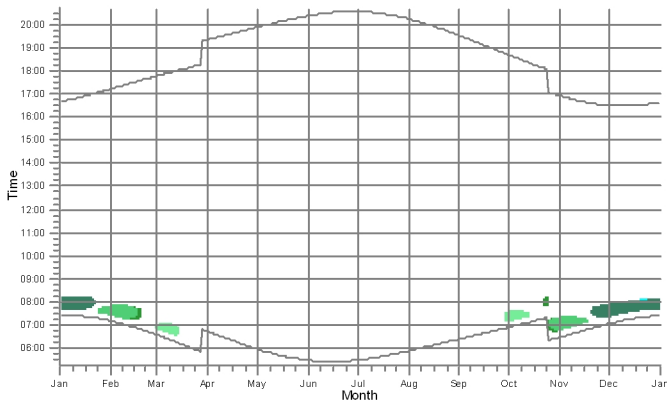
13: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (13)










14: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (14)



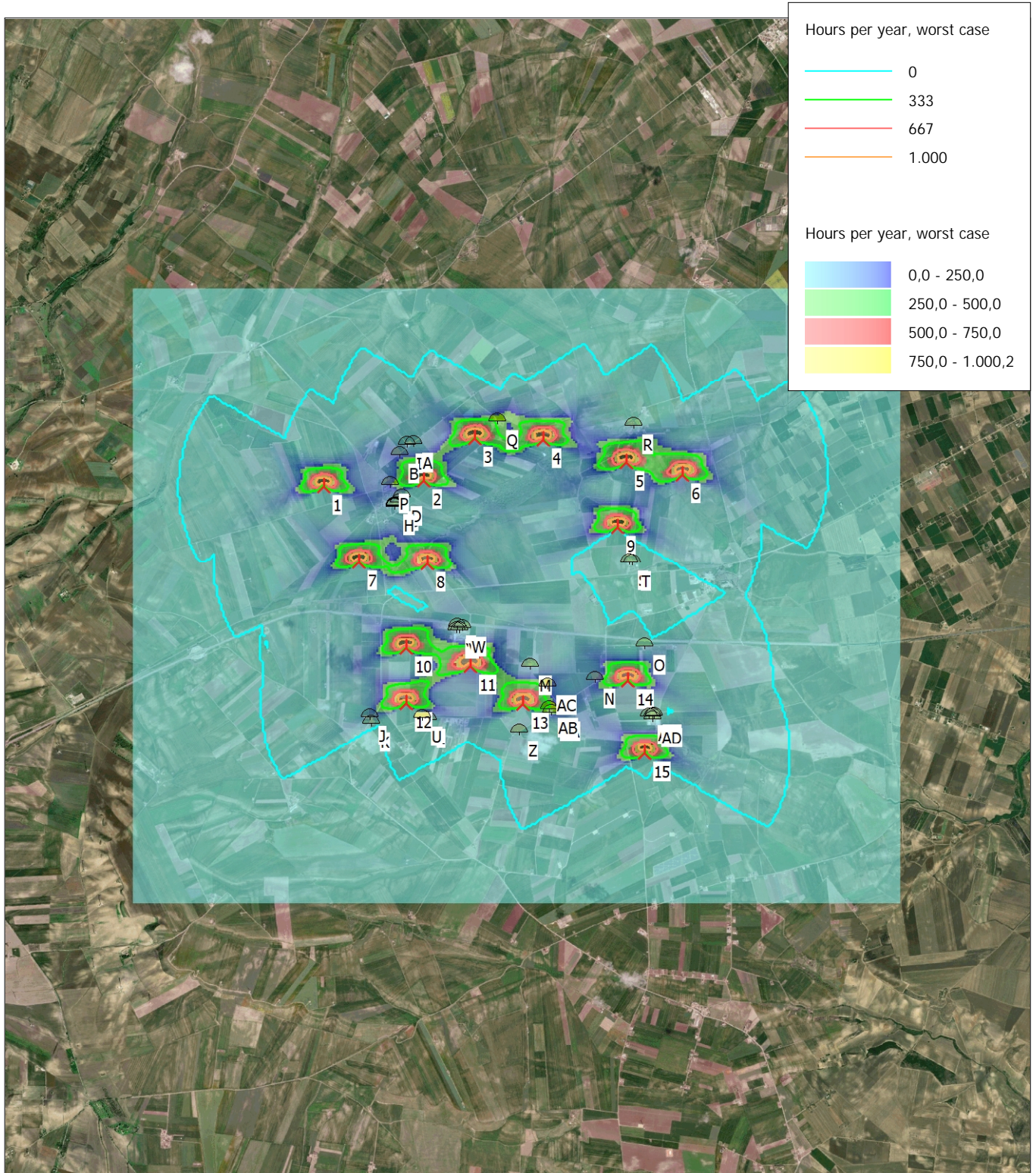
15: VESTAS V172 7200 172.0 !O! hub: 114,0 m (TOT: 200,0 m) (15)



Shadow receptors

- | | | |
|--|---|---|
|  M: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (13) |  Z: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (26) |  AC: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (29) |
|  N: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (14) |  AA: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (27) | |
|  O: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (15) |  AB: Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 0,0° (28) | |

SHADOW - Map



0 1 2 3 4 km

Map: Ortofoto , Print scale 1:75.000, Map center UTM (north)-WGS84 Zone: 33 East: 557.220 North: 4.559.520

New WTG

Shadow receptor

Flicker map level: Elevation Grid Data Object: ASCOLI 2_EMDGrid_0.wpg (1)