

AUTORIZZAZIONE UNICA EX D. LGS. N. 387/2003



PROGETTO DEFINITIVO PARCO EOLICO MONTORIO

Titolo elaborato:

Studio sugli effetti dello shadow flickering

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1. PREMESSA

Nella presente trattazione si descrive l'evoluzione giornaliera delle ombre generate dalle pale eoliche facenti parte dell'impianto eolico denominato "Montorio" con lo scopo di verificare che l'alternanza ciclica dell'ombra su di un possibile ricettore non arrechi a questo danni alla salute.

2. DESCRIZIONE DEL PROGETTO

L'impianto eolico presenta una potenza nominale totale pari a 142.6 MWp ed è costituito da n. 23 aerogeneratori di potenza nominale pari a 6.2 MWp. Gli aerogeneratori, che la società Wpd intende installare, presentano un'altezza della torre pari a 165 m e rotore pari a 170 m e verranno collegati tra loro mediante un cavidotto interrato in media tensione che convoglia l'elettricità verso una sottostazione di trasformazione AT/MT al fine di collegarsi alla Rete di Distribuzione Nazionale (RTN) Terna attraverso una linea interrata in alta tensione.

L'impianto interessa prevalentemente i Comuni di Montorio nei Frentani, ove ricadono 10 aerogeneratori, Ururi, ove ricadono 4 aerogeneratori, San Martino in Pensilis, ove ricadono 3 aerogeneratori e il Comune di Larino, ove ricadono 6 aerogeneratori e la stazione elettrica di trasformazione Terna 380/150 kV (**Figura 2.1**).

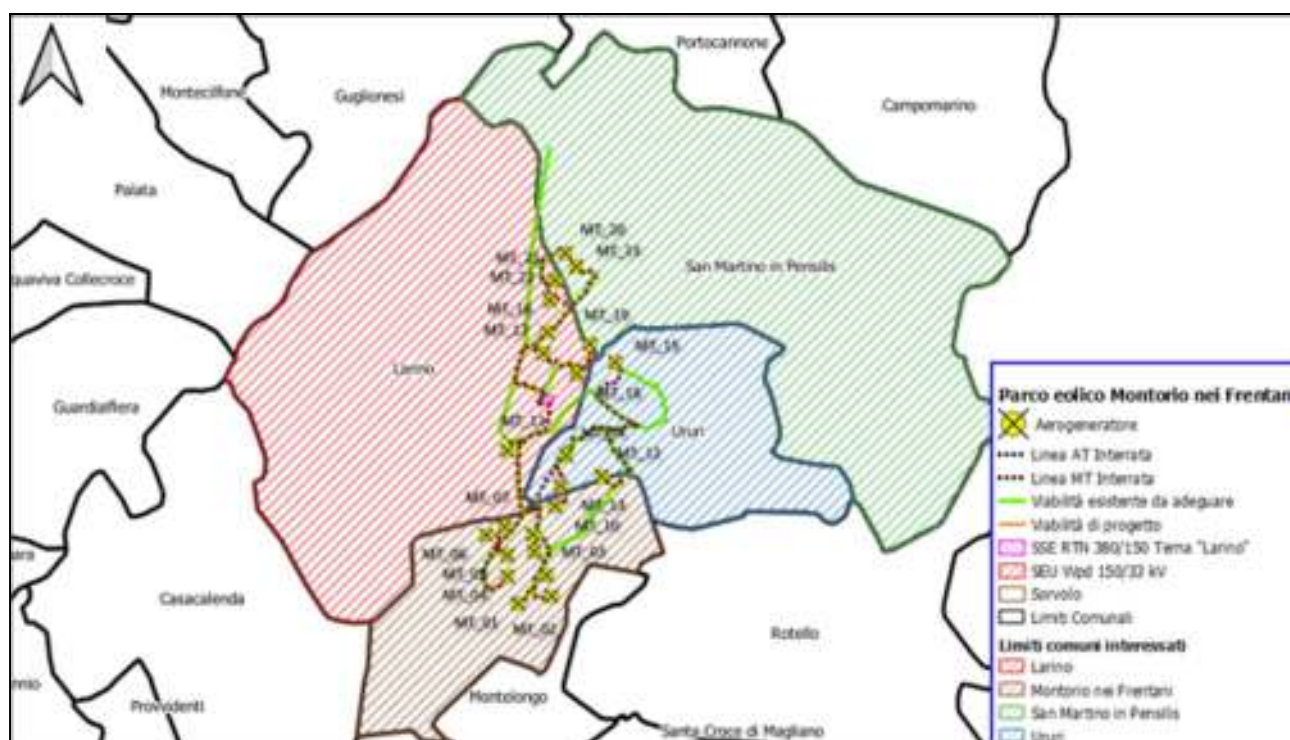


Figura 2.1: Inquadramento territoriale - Limiti amministrativi comuni interessati

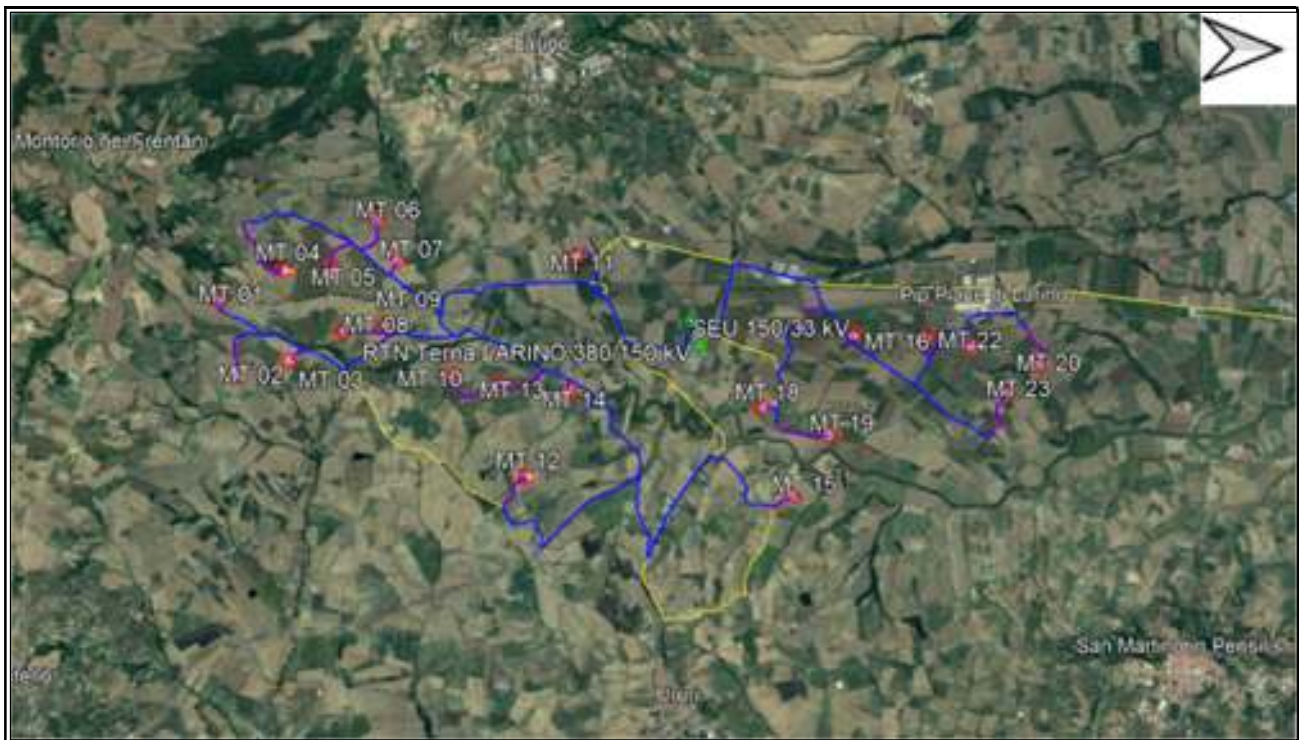


Figura 2.2: Layout d'impianto su immagine satellitare

Il Parco eolico si colloca in un'area di circa 3.000 ettari tra i comuni di Montorio nei Frentani (Sud), Larino (Ovest), San Marino in Pensilis (Nord-Est) e Ururi (Est) e può intendersi suddiviso in due parti, quella ricadente a Nord della Sottostazione Terna di Larino 380/150 kV (Zona 1 – rettangolo rosso), costituita da 9 WTG, e quella ricadente a Sud della suddetta sottostazione (Zona 1 – rettangolo azzurro), costituita da 14 WTG (**Figura 2.3, 2.4 e 2.5**).

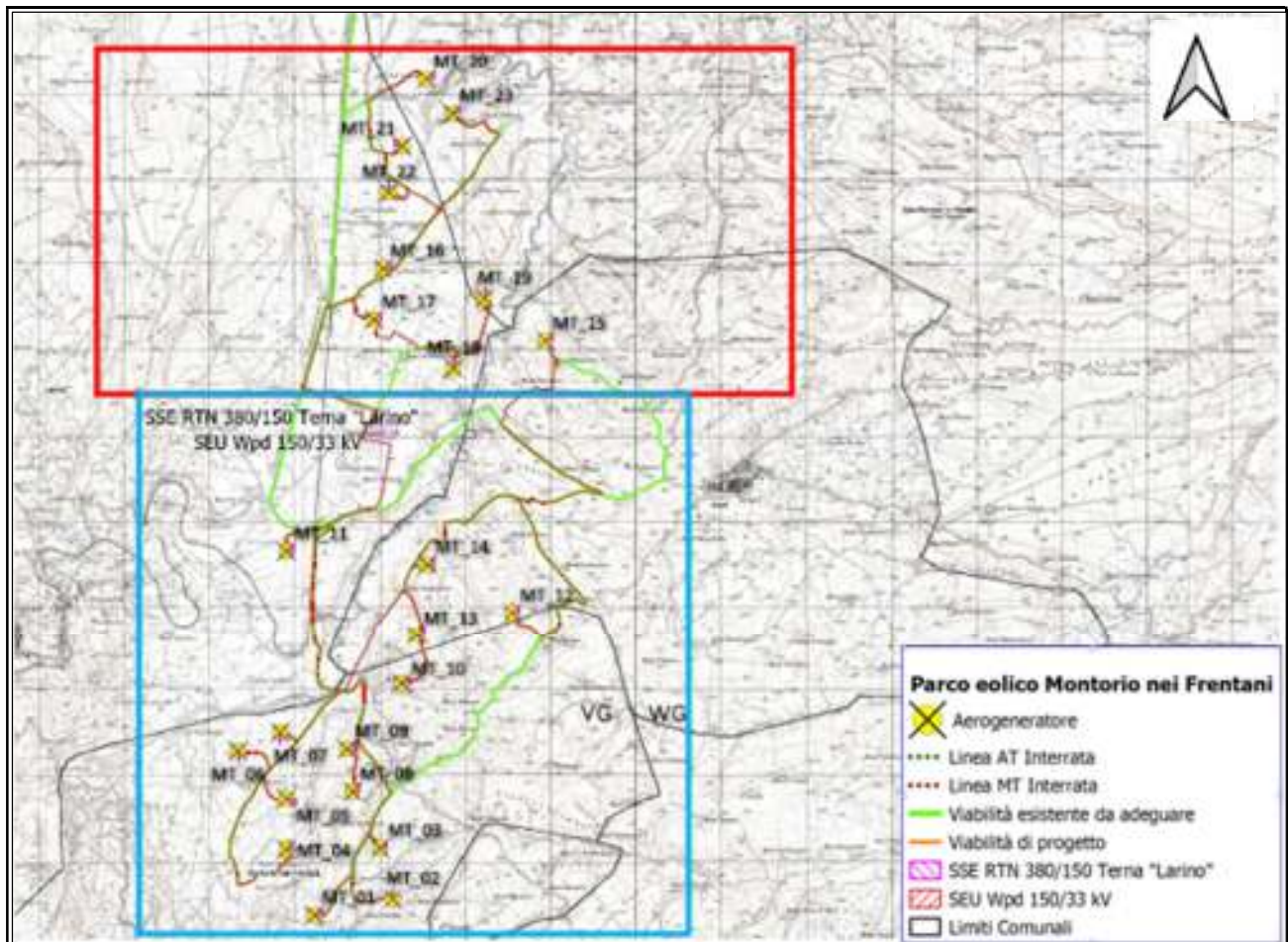


Figura 2.3: Layout d'impianto suddiviso in zone su IgM: Zona 1 (rettangolo rosso) e Zona 2 (rettangolo azzurro)

Il collegamento tra il parco eolico e la sezione 150 kV della stazione elettrica di trasformazione della RTN 380/150 kV nel Comune di Larino (CB) avverrà attraverso una linea in Alta Tensione 150 kV interrata, prevalentemente su strade esistenti o da realizzare per lo scopo, che parte dalla sottostazione di trasformazione utente 150/33 kV, posizionata in territorio di Larino (CB) su cui convogliano tutte le linee di Media tensione del parco, e arriva nel punto di connessione nello stesso Comune Larino.

Le turbine eoliche verranno collegate attraverso un sistema di linee elettriche interrate di Media Tensione da 33 kV allocate prevalentemente in corrispondenza del sistema di viabilità interna che servirà per la costruzione e la gestione futura dell'impianto. Tale sistema di viabilità verrà realizzato prevalentemente adeguando il sistema viario esistente e realizzando nuovi tratti di raccordo per consentire il transito dei mezzi eccezionali.

Le linee elettriche in Media Tensione vengono collegate tutte in corrispondenza della sottostazione di trasformazione AT/MT posizionata in posizione baricentrica rispetto all'area d'impianto.

La soluzione di connessione (soluzione tecnica minima generale STMG - codice pratica del preventivo di connessione C.P. 202002435), prevede che l'impianto eolico venga collegato in antenna a 150 kV con

la sezione 150 kV della stazione elettrica di trasformazione (SE) della RTN 380/150 kV di Larino, previa realizzazione degli interventi previsti nell'ambito del Piano di Sviluppo Terna.

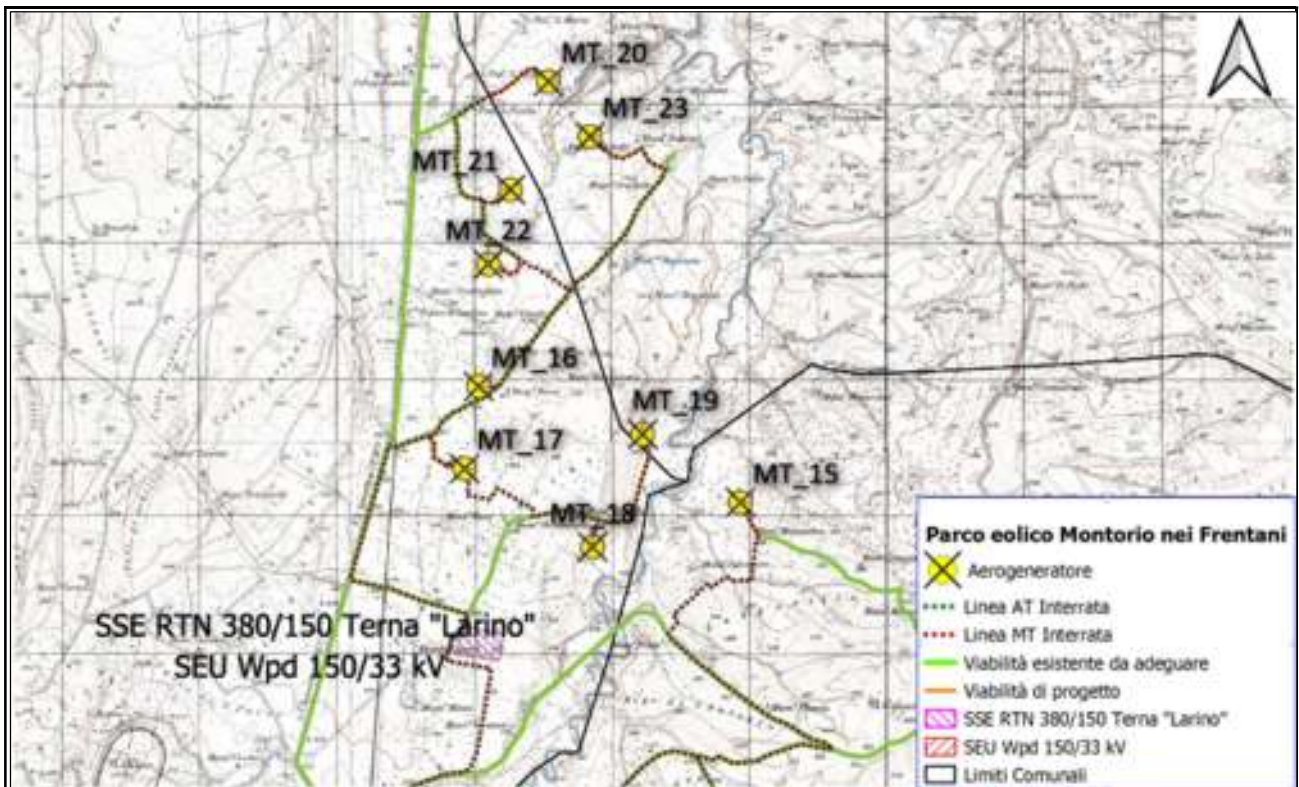


Figura 2.4: Layout d'impianto - zona 1 su IgM

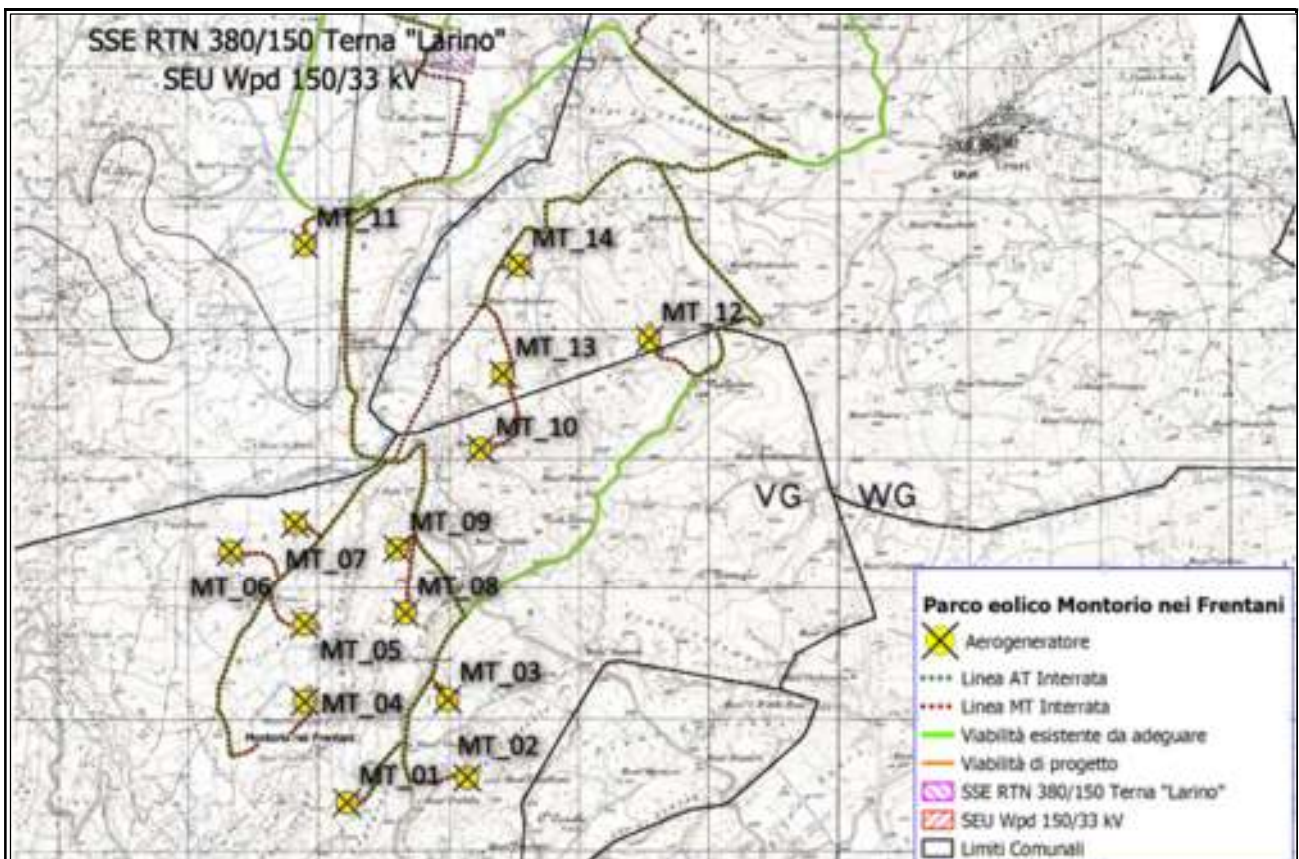


Figura 2.5: Layout d'impianto - zona 2 su IgM

L'area di progetto è servita dalla SS 87 (Sannitica) e da un sistema di viabilità esistente e capillare che non richiede la realizzazione di molti nuovi tratti di viabilità in quanto verranno utilizzate prevalentemente le strade provinciali e strade interpoderali e/o comunali, opportunamente adeguate e migliorate per il transito dei mezzi eccezionali da utilizzare per consegnare in sito i componenti degli aerogeneratori, da cui si dirameranno nuovi tratti di viabilità per giungere alle posizioni degli aerogeneratori, necessari per la costruzione e la manutenzione dell'impianto eolico (Figura 2.6).



Figura 2.6: Layout d'impianto su immagine satellitare

3. CARATTERISTICHE PRINCIPALI DEL PARCO EOLICO

L'impianto eolico sarà costituito essenzialmente da 23 aerogeneratori la cui posizione è stata stabilita a seguito di valutazioni che riguardano diversi aspetti quali l'esposizione a tutti i settori della rosa dei venti, la morfologia del territorio, la distanza da fabbricati e strade esistenti ed utilizzate da un elevato numero di veicoli, distanza dal centro abitato e da beni monumentali presenti nell'area oltre agli aspetti legati alla sicurezza e volti a minimizzare l'impatto sull'ambiente:

- ottemperare alle previsioni della normativa vigente e delle linee guida sia nazionali che regionali;
- minimizzare l'impatto visivo;
- migliorare in sistema viario esistente al fine di migliorare l'accessibilità ai terreni per lo sviluppo dell'agricoltura e dell'allevamento di animali;

- disposizione delle macchine ad una distanza reciproca minima pari ad almeno 450 m, atta a minimizzare l'effetto scia, l'effetto selva e l'impatto sull'avifauna;
- condizioni di massima sicurezza, sia in fase di installazione che di esercizio.

La disposizione finale del parco è stata verificata e confermata a seguito di uno studio di fattibilità condotto sulla base delle informazioni sugli aspetti vincolistici dal punto di vista ambientale e paesaggistico e sulla base dei sopralluoghi svolti sul posto per verificare le interferenze presenti in sito e la fattibilità di realizzazione delle opere.

Si riportano di seguito le coordinate delle posizioni scelte per l'installazione degli aerogeneratori:

WTG	Comune	D rotore	H tot	Hhub	Coordinate UTM-WGS84 T33	
		[m]	[m]	[m]	E	N
MT 01	Montorio nei Frentani	170	250	165	496151.07	4624174.41
MT 02	Montorio nei Frentani	170	250	165	497073.81	4624363.01
MT 03	Montorio nei Frentani	170	250	165	496926.55	4624959.10
MT 04	Montorio nei Frentani	170	250	165	495827.00	4624941.77
MT 05	Montorio nei Frentani	170	250	165	495825.24	4625530.07
MT 06	Montorio nei Frentani	170	250	165	495256.53	4626090.11
MT 07	Montorio nei Frentani	170	250	165	495752.23	4626306.26
MT 08	Montorio nei Frentani	170	250	165	496599.98	4625614.55
MT 09	Montorio nei Frentani	170	250	165	496537.44	4626113.15
MT 10	Montorio nei Frentani	170	250	165	497175.17	4626881.46
MT 11	Larino	170	250	165	495825.47	4628448.46
MT 12	Ururi	170	250	165	498474.64	4627721.94
MT 13	Ururi	170	250	165	497348.39	4627455.68
MT 14	Ururi	170	250	165	497478.92	4628291.15
MT 15	Ururi	170	250	165	498862.90	4630913.83
MT 16	Larino	170	250	165	496956.49	4631758.44
MT 17	Larino	170	250	165	496853.56	4631159.44
MT 18	Larino	170	250	165	497786.57	4630588.82
MT 19	San Martino in Pensilis	170	250	165	498150.55	4631410.07
MT 20	San Martino in Pensilis	170	250	165	497464.13	4633974.91
MT 21	Larino	170	250	165	497187.39	4633189.48
MT 22	Larino	170	250	165	497027.15	4632646.95

WTG	Comune	D rotore	H tot	Hhub	Coordinate UTM-WGS84 T33	
		[m]	[m]	[m]	E	N
MT 23	San Martino in Pensilis	170	250	165	497768.13	4633575.83

Tabella 3.1: Localizzazione planimetrica degli aerogeneratori di progetto

Il progetto prevede l'adeguamento di tratti di strada esistenti, in particolare strade comunali, e la realizzazione di una nuova viabilità a servizio degli aerogeneratori di progetto, ossia di una rete viaria interna al parco che si snoderà seguendo lo sviluppo degli esistenti tratturi non vincolati dalla Soprintendenza.

La disponibilità delle aree, necessaria per l'installazione degli aerogeneratori e le relative opere connesse, è garantita grazie alla Dichiarazione di Pubblica utilità ai sensi degli artt. 52-quater "Disposizioni generali in materia di conformità urbanistica, apposizione del vincolo preordinato all'esproprio e pubblica utilità" e 52-quinquies "Disposizioni particolari per le infrastrutture lineari energetiche facenti parte delle reti energetiche nazionali" D.P.R. 327/2001 a conclusione del procedimento autorizzatorio di cui all'art.12, d.lgs. 387/2003 e gli effetti dell'Autorizzazione Unica ottenuta dopo opportuna conferenza di servizi.

Tutte le aree oggetto interessate dal progetto sono riportate nello specifico elaborato di progetto "Piano Particella di esproprio".

4. CARATTERISTICHE TECNICHE DELL'AEROGENERATORE

L'aerogeneratore è una macchina rotante che trasforma l'energia cinetica del vento in energia elettrica ed è essenzialmente costituito da una torre in acciaio (suddivisa in più parti), dalla navicella, dal Drive Train, dall'Hub e tre pale che costituiscono il rotore.

Per il presente progetto una delle possibili macchine che verrà installata è il modello Siemens Gamesa SG 170 di potenza nominale pari a 6.2 MWp, altezza torre all'hub pari a 165 m e diametro del rotore 170 m (**Figura 4.1**).

Ai componenti sopra elencati si aggiunge un sistema che esegue il controllo della potenza ruotando le pale intorno al loro asse principale ed il controllo dell'orientamento della navicella, detto controllo dell'imbardata, che permette l'allineamento della macchina rispetto alla direzione del vento.

Il rotore è in resina epossidica rinforzata con fibra di vetro di diametro pari a 170 metri, posto sopravvento al sostegno, con mozzo rigido in acciaio, ed è a passo variabile. Altre caratteristiche salienti sono riassunte nella **Tabella 4.1**.

Le caratteristiche dell'aerogeneratore descritto sono quelle ritenute idonee in base a quanto disponibile oggi sul mercato; in futuro potrà essere possibile cambiare il modello dell'aerogeneratore senza modificare in maniera sostanziale l'impatto ambientale e i limiti di sicurezza previsti.

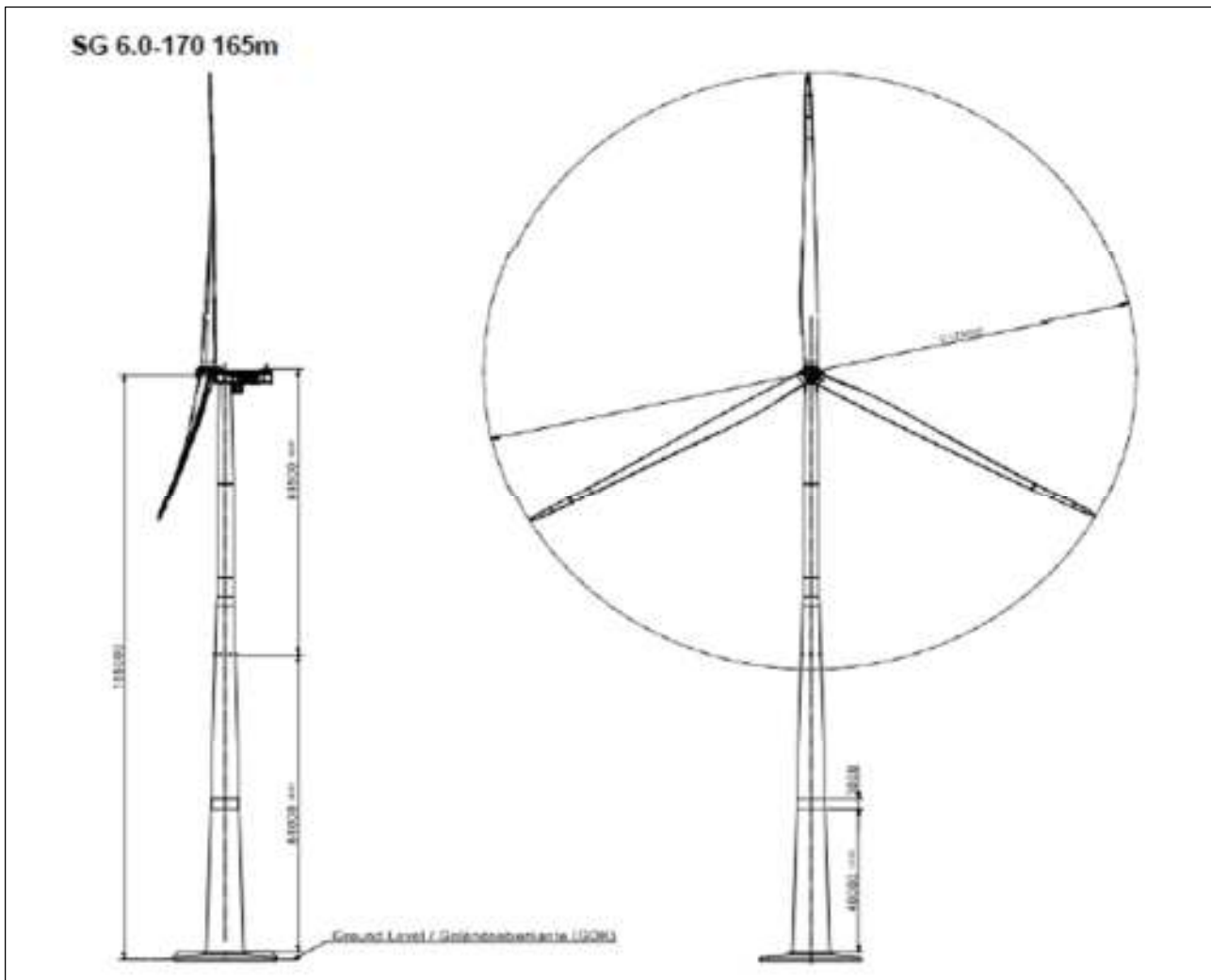


Figura 4.1: Profilo aerogeneratore SG170 – 6.2 MW

Technical Specifications	
Rotor	
Type	3-bladed, horizontal axis
Position	Upwind
Diameter	170 m
Swept area	22,698 m ²
Power regulation	Pitch & torque regulation with variable speed
Rotor tilt	6 degrees
Blade	
Type	Self-supporting
Blade length	83.5 m
Max chord	4.5 m
Aerodynamic profile	Siemens Gamesa proprietary airfoils
Material	G (Glassfiber) – CRP (Carbon Reinforced Plastic)
Surface gloss	Semi-gloss, < 30 / ISO2813
Surface color	Light grey, RAL 7035 or White, RAL 9018
Aerodynamic Brake	
Type	Full span pitching
Activation	Active, hydraulic
Load-Supporting Parts	
Hub	Nodular cast iron
Main shaft	Nodular cast iron
Nacelle bed frame	Nodular cast iron
Mechanical Brake	
Type	Hydraulic disc brake
Position	Gearbox rear end
Nacelle Cover	
Type	Totally enclosed
Surface gloss	Semi-gloss, <30 / ISO2813
Color	Light Grey, RAL 7035 or White, RAL 9018
Generator	
Type	Asynchronous, DFIG
Grid Terminals (LV)	
Baseline nominal power	6.0 MW / 6.2 MW
Voltage	690 V
Frequency	50 Hz or 60 Hz
Yaw System	
Type	Active
Yaw bearing	Externally geared
Yaw drive	Electric gear motors
Yaw brake	Active friction brake
Controller	
Type	Siemens Integrated Control System (SICS)
SCADA system	SGRE SCADA
Tower	
Type	Tubular steel / Hybrid
Hub height	100 m to 165 m and site- specific
Corrosion protection	
Surface gloss	Semi-gloss, <30 / ISO-2813
Color	Light grey, RAL 7035 or White, RAL 9018
Operational Data	
Cut-in wind speed	3 m/s
Rated wind speed	11.0 m/s (steady wind without turbulence, as defined by IEC61400-1)
Cut-out wind speed	25 m/s
Restart wind speed	22 m/s
Weight	
Modular approach	Different modules depending on restriction

Tabella 4.1: Specifiche tecniche aerogeneratore

5. FENOMENO DI SHADOW FLICKERING

La presenza delle turbine eoliche provoca la proiezione dell'ombra sulle aree ad esse adiacenti in presenza di luce solare diretta.

Il fenomeno causa effetti quasi statici dovuti alla presenza della torre fissa ed effetti dinamici legati alla rotazione del rotore delle tre pale della turbina.

Gli effetti statici possono aumentare, nelle prime ed ultime ore del giorno, la probabilità di formazione di ghiaccio su eventuali strade asfaltate soggette a traffico.

Gli effetti dinamici si traducono in una variazione alternata di intensità luminosa che, a lungo andare, può provocare fastidio agli occupanti le abitazioni le cui finestre risultano esposte al fenomeno stesso.

Lo “**shadow flickering**” descrive appunto l'effetto stroboscopico delle ombre proiettate dalle pale rotanti degli aerogeneratori allorché il sole si trova alle loro spalle, come si evince dalla **Figura 5.1**.



Figura 5.1: ombre proiettate dalle pale in rotazione di una turbina

Il conseguente effetto sugli individui è simile a quello che si sperimenterebbe in seguito alle variazioni di intensità luminosa di una lampada ad incandescenza a causa di continui sbalzi della tensione della rete di alimentazione elettrica.

Lo shadow flickering risulta assente nei casi di presenza di nuvole e nebbia che oscurano il sole e nei casi in cui le pale dell'aerogeneratore sono a riposo (per esempio in assenza del vento).

Per effettuare l'analisi del fenomeno vengono considerati alcuni parametri che ne influenzano la rilevanza.

Il primo di essi da tenere in conto è la frequenza di rotazione delle pale; in particolare, le frequenze che possono provocare un senso di fastidio sono comprese tra i 2,5 ed i 20 Hz.

Solitamente gli aerogeneratori tripala operano ad una velocità di rotazione inferiore ai 35 giri al minuto, corrispondente ad una frequenza di passaggio delle pale sulla verticale inferiore a 1,75 Hz, minore, quindi, della frequenza critica di 2,5 Hz.

Inoltre, i generatori di grande potenza (dal MW in su) raramente superano la velocità di rotazione di 20 giri al minuto, corrispondente a frequenze di passaggio delle pale ampiamente minori di quelle ritenute fastidiose per la maggioranza degli individui.

Un ulteriore aspetto da considerare per l'analisi della durata del fenomeno è la relazione spaziale tra un aerogeneratore ed un ricettore (abitazione), così come la direzione del vento.

Per distanze dell'ordine dei 300 m il fenomeno è più rilevante all'alba oppure al tramonto, ovvero in quelle ore in cui le ombre risultano molto lunghe per effetto della piccola elevazione solare. Al di là di una certa distanza l'effetto delle ombre è meno consistente perché il diametro del sole risulta essere di gran lunga superiore rispetto allo spessore della singola pala.

In questo scenario la condizione più penalizzante corrisponde al caso in cui il piano del rotore risulta essere ortogonale alla congiungente tra sole e ricettore; infatti, in tali condizioni, l'ombra proiettata darà origine ad un cerchio di diametro pari al rotore dell'aerogeneratore.

L'effetto dello shadow flickering risulta evidente e fastidioso in quegli ambienti con finestrate rivolte verso le ombre.

In linea di massima, si può ritenere che l'area soggetta al fenomeno in questione non si estende oltre i 500 ÷ 1000 m dall'aerogeneratore e le zone a maggiore impatto ricadono entro i 300 m di distanza dalle turbine.

Al fine di analizzare qualitativamente e quantitativamente il fenomeno, risulta necessario individuare la posizione occupata dal sole in maniera univoca tramite due coordinate angolari, azimuth ed altezza.

L'azimut per convenzione è l'angolo valutato sul piano orizzontale ed in senso orario, a partire dal nord geografico fino alla proiezione della congiungente (origine del sistema) - sole sul piano orizzontale stesso, ovvero il punto direttamente sotto al sole.

L'altezza o elevazione è misurata sul piano verticale, partendo da tale punto sino ad arrivare in corrispondenza del sole.

Tali coordinate variano con continuità grazie al moto della Terra intorno al sole e la traiettoria descritta nel cielo dal sole è assimilabile ad un arco; ogni giorno si caratterizza per un proprio arco, il quale si discosta, se pur di poco, da quello del giorno immediatamente precedente e successivo.

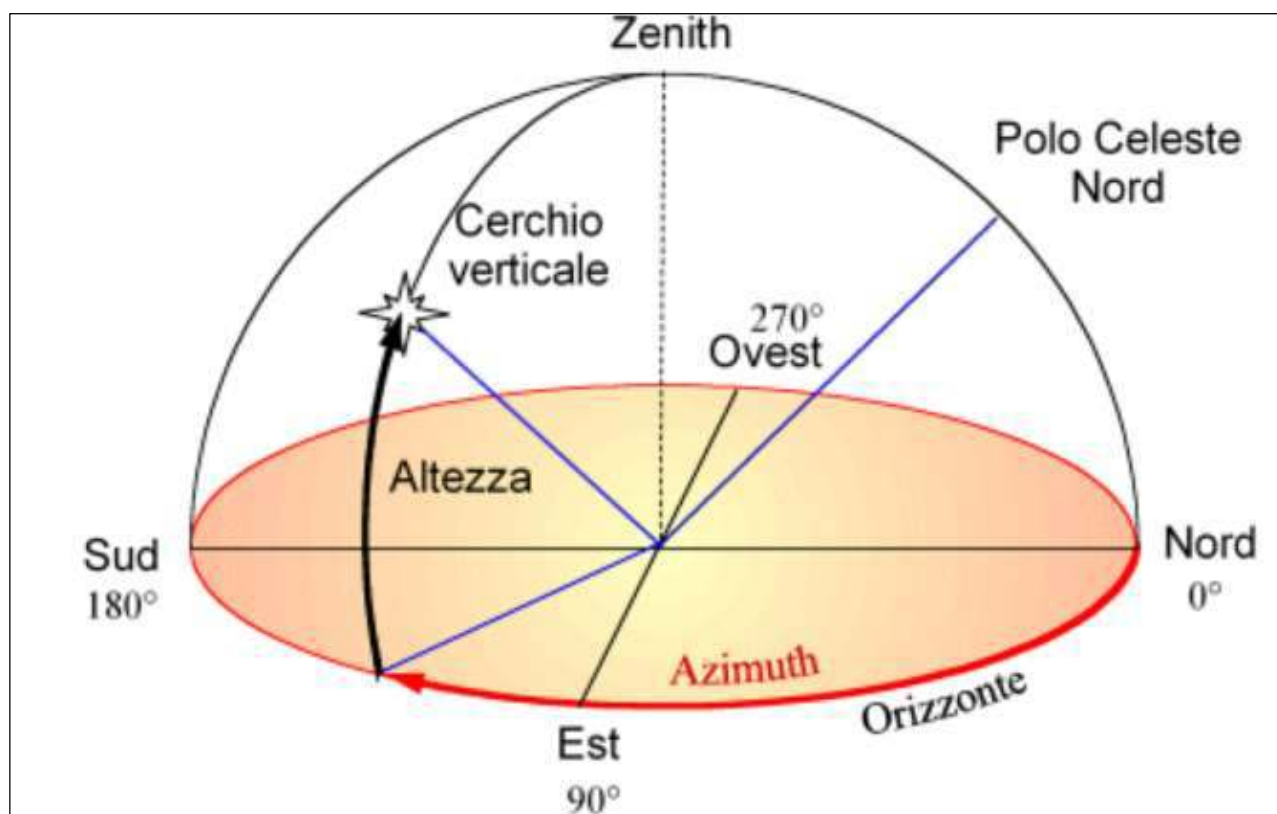


Figura 5.2: Coordinate azimut ed altezza per identificare la posizione del sole

La durata del giorno non coincide con la durata della luce naturale in quanto prima dell'alba e dopo il tramonto sono individuabili due periodi, detti crepuscolo (rispettivamente crepuscolo mattutino e crepuscolo serale o serotino), durante i quali giunge a terra una luce diffusa naturale fornita dai livelli più esterni dell'atmosfera, i quali, trovandosi a quote più elevate, ricevono luce solare diretta per un tempo più lungo riflettendola in parte verso la terra.

Pertanto, la durata dell'illuminazione del sole è pari alla somma della durata del giorno e della durata del crepuscolo mattutino e serale.

6. RIFERIMENTI NORMATIVI

L'effetto Shadow – Flickering è più pronunciato alle latitudini settentrionali durante i mesi invernali; infatti, soprattutto nel Nord Europa, l'effetto della minore altezza del sole all'orizzonte è più rilevante.

Pertanto, alcuni paesi hanno adottato dei limiti di legge relativi all'esposizione all'effetto in questione.

In Italia non esistono specifiche norme o linee guida che regolamentino il fenomeno e definiscano i limiti di esposizione in termini di ore o giorni all'anno.

Tuttavia, al fine di fornire una valutazione dell'impatto del fenomeno anche in termini quantitativi, si è cercato di mantenere l'esposizione allo shadow – flickering di ogni ricettore al di sotto delle 30 ore annue, parametro considerato di qualità a livello internazionale.

In particolare, la seguente trattazione fa riferimento alle norme e linee guida tedesche, in base alle quali il fenomeno in questione deve essere valutato nei casi seguenti:

- Fino alle distanze in corrispondenza delle quali il rotore dell'aerogeneratore copre il 20 % del disco solare (per distanze superiori a quella menzionata lo shadow-flickering arreca danni considerati trascurabili);
- per angoli del sole sull'orizzonte superiori a 3°;
- ad un'altezza di 2 m dal suolo.

Inoltre, come anticipato, le linee guida tedesche stabiliscono i limiti di esposizione al fenomeno di:

- 30 ore all'anno;
- 30 minuti al giorno.

7. IPOTESI E METODO DI CALCOLO

L'obiettivo della trattazione è la stima quantitativa dell'effetto shadow flickering prodotto dall'impianto eolico, fenomeno per cui si genera una intermittenza dell'ombra a seguito del movimento del rotore dell'aerogeneratore quando in esercizio (in particolare quando il piano del rotore risulta perpendicolare alla congiungente tra l'osservatore e il sole) e che potrebbe risultare fastidioso per un osservatore.

Nell'analisi condotta sono stati considerati 23 aerogeneratori di nuova realizzazione e relativi al progetto del Parco Eolico Montorio e 88 aerogeneratori esistenti.

I 23 aerogeneratori hanno un'altezza al mozzo di 165 m, diametro del rotore di 170 m, potenza nominale di 6.2 MWp e 8,8 giri al minuto (RPM).

Nel file **allegato 1** alla relazione sono esplicitati anche i modelli delle 88 turbine eoliche esistenti e le relative coordinate, in quanto contribuiscono agli effetti provocati dal fenomeno shadow flickering così come quelle di nuova installazione, essendo prossime alle stesse.

La verifica è stata effettuata in corrispondenza di 69 ricettori, rappresentativi di fabbricati di "civile abitazione", riportati nella **Tabella 7.1**, sui quali l'effetto trattato potrebbe avere una certa rilevanza:

Ricettore	Coordinate UTM WGS 84, 33°		Altitudine slm [m]	Comune	Buffer [m]	WTG più prossime [m]	Foglio	Particella	Uso	Verifica in sito
R5	41.769483°	14.960088°	346	Montorio nei Frentani	400	406 - MT 02	16	90	A/7	
R7	41.773109°	14.959510°	327	Montorio nei Frentani	400	509 - MT 02	16	89	A/3	
R12	41.776998°	14.941982°	386	Montorio nei Frentani	400	770 - MT 03	15	116, 122, 117	A/3	

Ricettore	Coordinate UTM WGS 84, 33°		Altitudine slm [m]	Comune	Buffer [m]	WTG più prossime [m]	Foglio	Particella	Uso	Verifica in sito
R13	41.779097°	14.956661°	313	Montorio nei Frentani	400	416 - MT 05	15	120	D/10	Abitazione
R17	41.786890°	14.967416°	253	Montorio nei Frentani	400	753 - MT 06	8	204, 210	A/3	
R19	41.791606°	14.953087°	198	Montorio nei Frentani	400	478 - MT 12	7	72	C/2	
R20	41.796884°	14.952302°	229	Larino	400	976 - MT12	62	119, 120, 131	A/3	
R21	41.796575°	14.947720°	241	Larino	400	903 - MT 12	61	142, 207	A/3	
R22	41.797583°	14.952046°	231	Larino	400	1048 - MT 12	62	126	A/2	
R24	41.800987°	14.962510°	189	Ururi	400	522 - MT 08	16	77, 31, 68	D/10 - D/1	Abitazione
R25	41.803681°	14.965758°	188	Ururi	400	430 - MT 16	15	60	A/3	
R26	41.803537°	14.953161°	223	Larino	400	538 - MT 09	62	4	E/1	
R27	41.801945°	14.949099°	237	Larino	400	647 - MT 09	61	227, 240	A/3	
R28	41.798333°	14.946710°	253	Larino	400	1099 - MT 12	61	211, 219, 98	A/7 - A/2	
R29	41.799681°	14.953979°	219	Larino	400	784 - MT 09	62	123	A/3	
R30	41.801151°	14.953294°	226	Larino	400	793 - MT 09	62	8	A/3	
R31	41.809130°	14.957084°	208	Larino	400	625 - MT 09	50	190, 139	A/3	
R32	41.810266°	14.956798°	206	Larino	400	644 - MT 09	50	179, 137, 172	A/4 - A/2	
R35	41.811730°	14.955312°	205	Larino	400	645 - MT 09	44	84	D/10 - F/2	
R39	41.811898°	14.947477°	219	Larino	400	495 - MT 09	50	181, 191, 177, 185, 175, 184	A/2 - A/4 - A/3	
R40	41.815421°	14.952204°	201	Larino	400	877 - MT 09	42	96, 161	A/3	
R41	41.816843°	14.949884°	202	Larino	400	1015 - MT 09	42	152, 157, 170	A/3	
R42	41.817046°	14.958004°	194	Larino	400	1226 - MT 09	43	133, 134, 29, 136, 140, 128	A/4 - A/3 - A/2	
R43	41.820244°	14.957710°	188	Larino	400	1352 - MT 20	43	154	A/2	
R45	41.825206°	14.969031°	175	Larino	400	409 - MT 19	35	94	A/4	

Ricettore	Coordinate UTM WGS 84, 33°		Altitudine slm [m]	Comune	Buffer [m]	WTG più prossime [m]	Foglio	Particella	Uso	Verifica in sito
R52	41.828654°	14.960216°	172	Larino	400	407 - MT 20	33	17	A/3	
R53	41.828841°	14.966068°	170	Larino	400	477 - MT 20	34	36	D/10	Abitazione
R56	41.833375°	14.955878°	165	Larino	400	558 - MT 20	33	51, 33, 34		Abitazione
R57	41.834671°	14.955645°	163	Larino	400	617 - MT 20	22	37	A/7	
R59	41.838005°	14.970114°	156	Larino	400	556 - MT 22	24	23	A/4	
R60	41.839880°	14.970534°	154	Larino	400	660 - MT 22	24	71, 73	A/3	
R61	41.841356°	14.963758°	153	Larino	400	424 - MT 22	23	40, 39	D/10	Abitazione
R61bis	41.841682°	14.963712°	155	Larino	400	446 - MT 22, 442 - MT 23	15	621, 622	D/10	Abitazione
R62	41.843207°	14.960551°	152	Larino	400	408 - MT 23	15	561	A/3	
R63	41.843079°	14.960154°	152	Larino	400	443 - MT 23	23	8		Abitazione
R64	41.843759°	14.959289°	152	Larino	400	455 - MT 23	15	226, 641, 569	A/3	
R65	41.842032°	14.967508°	150	Larino	400	480 - MT 23	15	522	A/4	
R66	41.842602°	14.970436°	149	Larino	400	611 - MT 23	24	75	A/3	
R67	41.844550°	14.973075°	144	San Martino in Pensilis	400	735 - MT 23	51	92	A/4	
R71	41.853102°	14.961091°	133	Larino	400	508 - MT 24	15	37, 562, 35, 565	A/3	
R72	41.855683°	14.963021°	132	Larino	400	570 - MT 14	15	567, 118, 612, 121, 201	A/3 - A/4 - A/10	
R73	41.848654°	14.973747°	138	San Martino in Pensilis	400	574 - MT 13	51	83	A/3	
R74	41.849784°	14.975496°	134	San Martino in Pensilis	400	501 - MT 13	51	98	A/7	
R75	41.848910°	14.976717°	133	San Martino in Pensilis	400	632 - MT 13	51	81, 97	A/7 - A/4	
R76	41.809234°	14.981135°	201	Ururi	400	903 - MT 17	14	78, 79	A/3	
R78	41.816852°	14.958087°	194	Larino	400	1192 - MT 9	44	3, 86, 56	A/4 - A/3	
R79	41.843279°	14.955607°	150	Larino	400	754 - MT 23	15	564	A/4	
R82	41.839570°	14.976423°	150	San Martino in Pensilis	400	594 - MT 21	24	82		Abitazione

Ricettore	Coordinate UTM WGS 84, 33°		Altitudine slm [m]	Comune	Buffer [m]	WTG più prossime [m]	Foglio	Particella	Uso	Verifica in sito
R85	41.813964°	14.978519°	172	Ururi	400	1112 - MT 16	14	80	A/4	
R91	41.851337°	14.976927°	130	San Martino in Pensilis	400	438 - MT 13	51	91	A/3	
R93	41.851193°	14.976662°	130	San Martino in Pensilis	400	430 - MT 13	51	91	A/3	
R94	41.857732°	14.974945°	117	San Martino in Pensilis	400	439 - MT 13	42	100, 105, 101, 104	A/4	
R95	41.861255°	14.967369°	122	San Martino in Pensilis	400	437 - MT 14	26	359	A/4	
R96	41.861211°	14.966648°	122	San Martino in Pensilis	400	463 - MT 14	26	112	A/3	
R99	41.861630°	14.967745°	122	San Martino in Pensilis	400	462 - MT 14	26	357, 301	A/4	
R100	41.861903°	14.967340°	120	San Martino in Pensilis	400	505 - MT 14	26	358	A/4	
R101	41.861871°	14.967123°	120	San Martino in Pensilis	400	506 - MT 14	26	358	A/4	
R102	41.862066°	14.967119°	120	San Martino in Pensilis	400	526 - MT 14	26	297	A/4	
R103	41.861426°	14.966658°	120	San Martino in Pensilis	400	480 - MT 14	26	112	A/3	
R106	41.858571°	14.963705°	127	San Martino in Pensilis	400	490 - MT 14	26	282	A/3	
R107	41.858227°	14.963330°	127	San Martino in Pensilis	400	517 - MT 14	26	281	A/3	
R109	41.856265°	14.963881°	130	Larino	400	480 - MT 14	15	121	A/4, A/10	
R113	41.816274°	14.966233°	191	Larino	400	1168 - MT 16	15	567	A/3	
R114	41.810617°	14.973987°	193	Ururi	400	635 - MT 16	17	55, 54	A/3	
R115	41.805641°	14.945081°	256	Larino	400	440 - MT 09	61	157	D/10	Azienda +Abitazione
R116	41.807656°	14.943431°	259	Larino	400	520 - MT 09	49	185, 186	A/3	
R117	41.812065°	14.946402°	224	Larino	400	550 - MT 09	50	177, 185, 175	A/3	
R118	41.809739°	14.956654°	207	Larino	400	613 - MT 09	50	179	C/2	Abitazione
R119	41.810077°	14.956501°	208	Larino	400	607 - MT 09	50	137	A/2, A/4	

Tabella 7.1: Ricettori oggetto di verifica

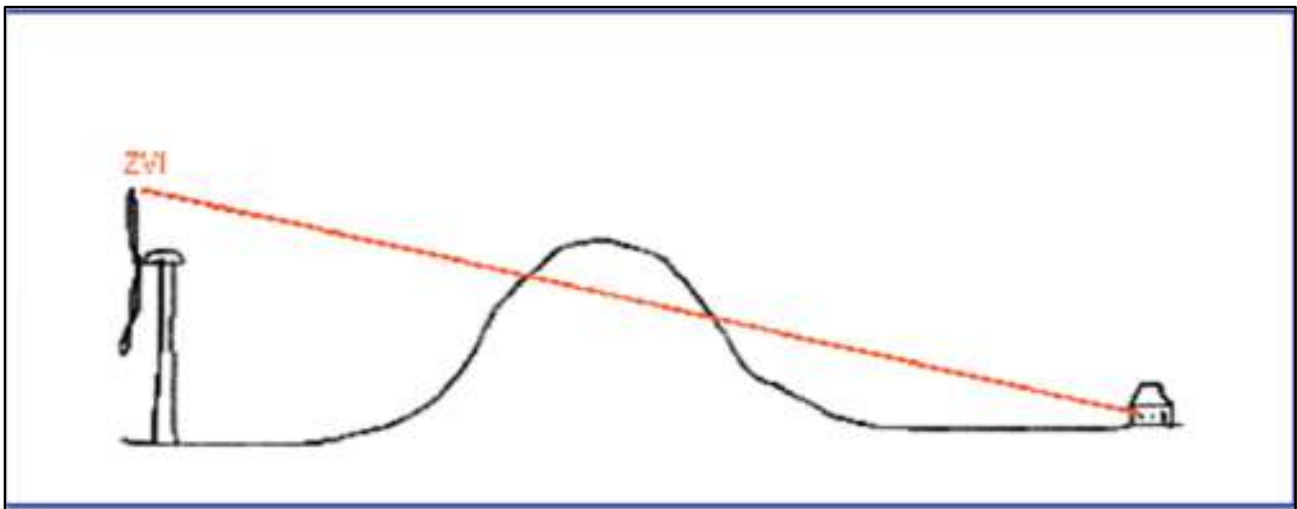


Figura 7.2: Impatto della ZVI, l'orografia del territorio può rendere non visibile l'aerogeneratore al ricettore

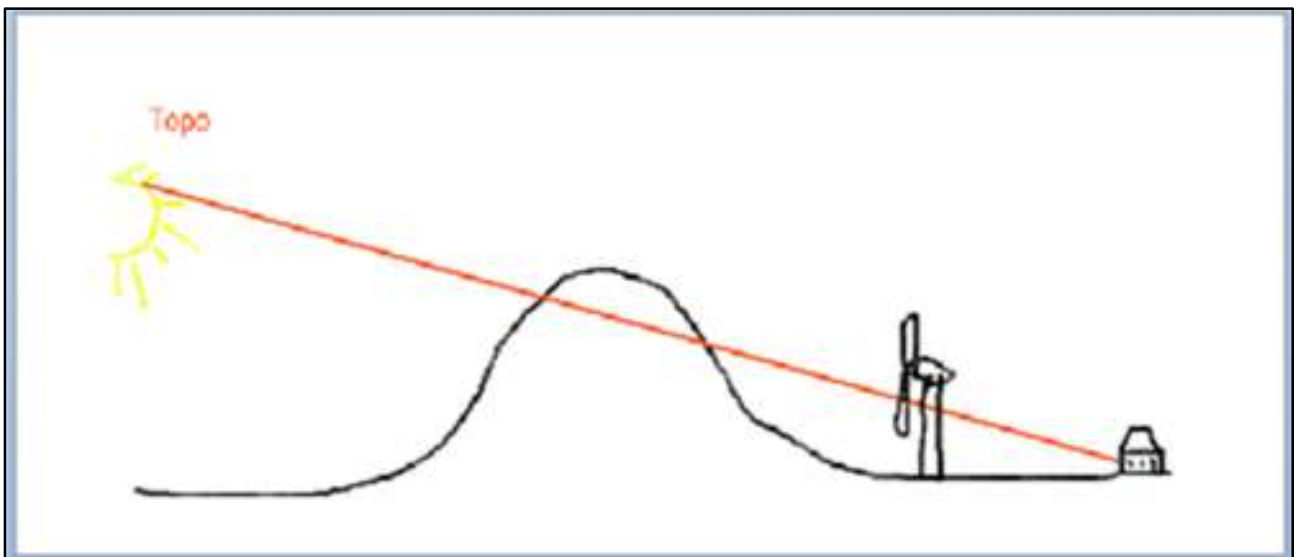


Figura 7.3: Impatto dell'orografia del territorio sull'ombreggiamento

In una prima stima effettuata si assumono le seguenti ipotesi restrittive (**worst case**):

- l'impianto eolico sempre in funzione durante le ore di sole;
- il vento caratterizzato da direzione prevalente SW durante le ore di sole;
- altezza minima del sole sull'orizzonte pari a 3° ;
- piano del rotore sempre ortogonale alla congiungente tra l'osservatore e il sole;
- totale assenza di ostacoli o schermi vegetazionali presenti negli spazi circostanti i possibili ricettori e che potrebbero inficiare il fenomeno;
- ricettori in modalità "green house", ovvero le finestre delle abitazioni attenzionate non orientate in una particolare direzione ma omnidirezionali.

In una seconda stima (**real case**), allo scopo di pervenire a valori più realistici di impatto (**expected values**), si è impiegato il valore di eliofania locale, che tiene in conto del numero medio di ore di cielo

libero da nubi durante il giorno, e le ore di funzionamento degli aerogeneratori in presenza del sole (restano comunque valide le restanti ipotesi introdotte nella stima relativa al worst case).

Per l'area in esame, con riferimento all'anno 2021 ed alla zona di Campobasso, i valori delle probabilità medie di eliofania per ognuno dei mesi e le ore di funzionamento degli aerogeneratori in presenza del sole in funzione della direzione del vento sono riportati rispettivamente nelle tabelle seguenti:

MESE	gen	feb	mar	apr	mag	giu	lug	ago	set	ott	nov	dic
GIORNI	31	28	31	30	31	30	31	31	30	31	30	31
PROB. MEDIA ELIOFANIA	4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Tabella 7.2: Probabilità medie di eliofania e ore di funzionamento aerogeneratori in presenza del sole

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Somma
981	393	245	98	116	178	202	368	932	441	576	1600	6130

Tabella 7.3: Ore di funzionamento degli aerogeneratori in presenza del sole in funzione della direzione del vento (ipotesi di funzione dell'impianto 80% del totale ore annue)

Il modello numerico utilizzato, al pari degli altri presenti sul mercato, produce statisticamente un output relativo al valore atteso delle ore d'ombra per anno relativo ai ricettori.

8. CONCLUSIONI

Nella **Tabella 8.1** si riportano i valori attesi delle ore d'ombra intermittente per anno e per giorno relativamente ai ricettori considerati nel worst case e nel real case:

Ricettore	WORST CASE			REAL CASE
	ORE/ANNO	GIORNI/ANNO	MAX ORE/GIORNO	ORE/ANNO
R5	183:09	189	1:21	41:54
R7	224:30	215	2:03	45:53
R12	101:37	211	1:08	21:24
R13	179:25	154	2:02	37:20
R17	177:40	296	1:15	35:37
R19	268:37	221	2:35	48:47
R20	35:17	87	0:33	7:37
R21	19:22	65	0:26	4:11
R22	33:21	85	0:32	7:15
R24	92:15	117	1:10	20:13
R25	111:17	190	1:09	23:49
R26	32:19	94	0:30	6:59
R27	34:40	121	0:24	7:07
R28	15:01	58	0:24	3:08

Ricettore	WORST CASE			REAL CASE
	ORE/ANNO	GIORNI/ANNO	MAX ORE/GIORNO	ORE/ANNO
R29	50:04	129	0:34	10:37
R30	82:20	204	0:32	16:53
R31	81:28	101	1:15	16:23
R32	79:37	82	1:28	14:50
R35	122:39	124	1:28	20:01
R39	101:15	112	1:22	20:12
R40	20:59	76	0:24	4:01
R41	16:59	66	0:21	3:12
R42	0:00	0	0:00	0:00
R43	4:26	34	0:11	0:57
R45	20:47	62	0:27	4:28
R52	42:10	128	0:35	9:08
R53	71:04	109	1:01	15:02
R56	98:30	131	1:17	21:58
R57	103:46	190	1:03	21:54
R59	201:14	227	1:20	40:27
R60	123:00	148	1:20	22:21
R61	150:31	92	1:54	29:14
R61bis	118:45	82	1:42	22:50
R62	18:00	74	0:23	3:27
R63	27:44	78	0:33	5:19
R64	17:28	85	0:22	3:26
R65	103:18	92	1:35	17:07
R66	73:40	98	0:51	11:15
R67	101:01	165	0:53	21:01
R71	129:56	163	1:15	27:53
R72	131:57	181	1:05	28:07
R73	122:43	159	1:01	27:44
R74	76:05	132	0:50	16:54
R75	66:23	126	0:45	14:46
R76	48:18	67	1:06	9:11
R78	0:00	0	0:00	0:00
R79	127:26	173	0:55	26:11
R82	43:32	109	0:35	7:47
R85	35:36	56	0:49	5:50
R91	53:53	110	0:43	10:35
R93	56:37	113	0:44	11:13
R94	297:59	245	2:08	61:09
R95	137:54	104	1:32	27:55

Ricettore	WORST CASE			REAL CASE
	ORE/ANNO	GIORNI/ANNO	MAX ORE/GIORNO	ORE/ANNO
R96	142:24	112	1:27	28:46
R99	99:12	84	1:25	19:42
R100	78:45	76	1:16	15:34
R101	83:39	79	1:17	16:37
R102	67:59	70	1:11	13:23
R103	124:04	102	1:25	24:57
R106	138:02	175	1:15	<u>30:46</u>
R107	128:43	166	1:12	29:27
R109	144:33	157	1:20	<u>31:00</u>
R113	17:57	57	0:25	2:56
R114	107:48	124	1:10	17:35
R115	0:00	0	0:00	0:00
R116	104:47	113	1:13	24:47
R117	95:34	111	1:15	18:56
R118	82:53	90	1:26	15:47
R119	83:33	83	1:31	15:38

Tabella 8.1: Ore d'ombra intermittente per anno e per giorno sui ricettori nel worst case e real case

Dai risultati riportati nella **Tabella 8.1** si evince che, nel worst case, per alcuni ricettori il valore atteso delle ore d'ombra intermittente per anno è superiore al valore di 30 ore/anno, parametro considerato di qualità a livello internazionale, mentre tale valore viene superato in pochi casi nelle ipotesi di real case.

Nella stima di worst case sono state adottate ipotesi molto restrittive, tra le quali quella secondo cui l'impianto sia sempre in funzione durante le ore di sole, il piano del rotore sempre ortogonale alla congiungente tra l'osservatore e il sole e ci sia totale assenza di ostacoli o schermi vegetazionali presenti negli spazi circostanti i possibili ricettori e che potrebbero attenuare il fenomeno.

Quest'ultima considerazione risulta avvalorata dai risultati ottenuti nel real case, in cui solo per 9 dei 69 ricettori considerati il valore atteso delle ore d'ombra intermittente è superiore al valore di 30 ore/anno (R5, R7, R13, R17, R19, R59, R94, R106, R109) come evidenziato nella tabella Tabella 8.1.

Nella stima relativa al real case, tuttavia, sono state considerate ipotesi conservative quali quella secondo cui i ricettori siano in modalità "green house", ovvero le finestre delle abitazioni attenzionate siano omnidirezionali, situazione non sempre verificata nella realtà.

Nello scenario reale ci si aspetta che il fenomeno, quindi, risulti ulteriormente meno rilevante.

Pertanto, si può ragionevolmente affermare che l'effetto shadow flickering non abbia un impatto negativo sul territorio circostante, in particolare sui fabbricati adibiti a "civile abitazione", nella maggior parte dei casi.

9. ALLEGATO 1: SHADOW – MAIN RESULT – ELABORAZIONE MEDIANTE IL SOFTWARE WINDPRO 3.4

SHADOW - Main Result

...continued from previous page

	Longitude	Latitude	Z	Row data/Description	WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.					Calculation distance [m]	RPM [RPM]
			[m]									
52	14,935239° E	41,742545° N	653,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
53	14,938587° E	41,742130° N	638,8	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
54	14,941264° E	41,742167° N	640,5	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
55	14,944891° E	41,741616° N	650,2	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
56	14,947741° E	41,741123° N	632,7	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
57	14,950275° E	41,757976° N	501,8	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
58	14,953911° E	41,757721° N	501,5	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
59	14,958186° E	41,755557° N	504,1	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
60	14,962369° E	41,753838° N	506,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
61	14,965536° E	41,754131° N	473,2	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
62	14,969279° E	41,754345° N	461,9	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
63	14,972754° E	41,753659° N	464,7	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
64	14,976490° E	41,751203° N	459,8	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
65	14,980378° E	41,749326° N	474,7	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
66	14,984020° E	41,748549° N	442,6	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
67	14,973796° E	41,767368° N	350,6	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
68	14,978435° E	41,768159° N	309,5	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
69	14,974121° E	41,788246° N	329,9	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
70	14,981949° E	41,793516° N	323,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
71	15,042122° E	41,795090° N	175,9	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
72	15,012484° E	41,802277° N	216,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
73	15,013708° E	41,794236° N	251,1	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
74	15,018078° E	41,796672° N	240,8	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
75	15,026744° E	41,794951° N	190,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
76	15,028332° E	41,802273° N	205,7	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
77	14,999003° E	41,799347° N	244,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
78	14,996407° E	41,806252° N	230,8	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
79	15,002672° E	41,805836° N	205,8	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
80	14,988249° E	41,808257° N	196,1	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
81	15,003776° E	41,795710° N	282,1	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
82	15,099886° E	41,850244° N	60,6	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
83	15,096133° E	41,850313° N	66,2	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
84	15,095889° E	41,837366° N	62,6	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
85	15,089717° E	41,837494° N	77,0	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
86	15,086381° E	41,837802° N	86,9	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
87	15,080871° E	41,837067° N	103,3	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
88	15,073373° E	41,836325° N	116,1	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
89	15,069146° E	41,835278° N	125,9	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
90	15,069425° E	41,845426° N	126,3	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
91	15,073774° E	41,845085° N	116,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
92	15,077486° E	41,844707° N	108,5	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
93	15,081195° E	41,843718° N	98,4	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
94	15,085623° E	41,844107° N	90,0	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
95	15,088762° E	41,844865° N	82,6	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
96	15,090710° E	41,851187° N	76,9	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
97	15,087084° E	41,850812° N	81,7	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
98	15,083296° E	41,851281° N	92,2	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
99	15,079596° E	41,851691° N	101,1	VESTAS V90-2.0 GridStr...	No	VESTAS	V90-2.0 GridStreamer-2.000	2.000	90,0	80,0	1.507	15,2
MT 01	14,953692° E	41,769399° N	375,9	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 02	14,964793° E	41,771102° N	313,6	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 03	14,963018° E	41,776470° N	301,8	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 04	14,949788° E	41,776309° N	325,0	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 05	14,949762° E	41,781608° N	284,8	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 06	14,942914° E	41,786649° N	267,8	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 07	14,948878° E	41,788599° N	228,2	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 08	14,959085° E	41,782372° N	298,8	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 09	14,958329° E	41,786863° N	254,7	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 10	14,966000° E	41,793786° N	242,3	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 11	14,949745° E	41,807894° N	222,3	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 12	14,981639° E	41,801359° N	249,4	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 13	14,968083° E	41,798958° N	219,1	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 14	14,969650° E	41,806484° N	199,9	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 15	14,986306° E	41,830109° N	165,7	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 16	14,963344° E	41,837712° N	166,8	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 17	14,962107° E	41,832316° N	156,4	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 18	14,973345° E	41,827180° N	140,8	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 19	14,977726° E	41,834578° N	119,2	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 20	14,969448° E	41,857677° N	124,3	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 21	14,966118° E	41,850602° N	136,0	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 22	14,964190° E	41,845715° N	144,3	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8
MT 23	14,973112° E	41,854083° N	123,9	Siemens Gamesa SG 6.0...	Yes	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8

SHADOW - Main Result

Shadow receptor-Input

No.	Longitude	Latitude	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
			[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
						[m]	[°]		[m]
R100	14,967346° E	41,861903° N	118,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R101	14,967123° E	41,861871° N	118,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R102	14,967119° E	41,862066° N	118,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R103	14,966658° E	41,861426° N	119,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R106	14,963705° E	41,858571° N	124,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R107	14,963330° E	41,858227° N	125,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R109	14,963881° E	41,856265° N	128,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R113	14,966233° E	41,816274° N	187,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R114	14,973987° E	41,810617° N	189,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R115	14,945081° E	41,805641° N	257,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R116	14,943431° E	41,807656° N	256,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R117	14,946402° E	41,812065° N	222,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R118	14,956654° E	41,809739° N	206,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R119	14,956501° E	41,810077° N	205,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R12	14,941982° E	41,776998° N	379,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R13	14,956661° E	41,779097° N	305,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R17	14,967416° E	41,786890° N	248,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R19	14,953087° E	41,791606° N	198,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R20	14,952302° E	41,796884° N	225,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R21	14,947720° E	41,796575° N	236,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R22	14,952046° E	41,797583° N	226,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R24	14,962510° E	41,800987° N	186,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R25	14,965758° E	41,803681° N	184,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R26	14,953161° E	41,803537° N	222,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R27	14,949099° E	41,801945° N	236,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R28	14,946710° E	41,798333° N	256,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R29	14,953979° E	41,799681° N	211,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R30	14,953294° E	41,801151° N	224,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R31	14,957084° E	41,809130° N	206,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R32	14,956798° E	41,810266° N	205,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R35	14,955312° E	41,811730° N	205,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R39	14,947477° E	41,811898° N	220,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R40	14,952204° E	41,815421° N	198,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R41	14,949884° E	41,816843° N	200,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R42	14,958004° E	41,817046° N	192,8	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R43	14,957710° E	41,820244° N	187,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R45	14,969031° E	41,825206° N	174,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R5	14,960088° E	41,769483° N	344,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R52	14,960216° E	41,828654° N	171,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R53	14,966068° E	41,828841° N	168,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R56	14,955878° E	41,833375° N	164,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R57	14,955645° E	41,834671° N	161,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R59	14,970114° E	41,838005° N	154,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R60	14,970534° E	41,839880° N	151,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R61	14,963758° E	41,841356° N	150,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R61bis	14,963712° E	41,841682° N	150,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R62	14,960551° E	41,843207° N	150,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R63	14,960154° E	41,843079° N	150,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R64	14,959289° E	41,843759° N	148,6	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R65	14,967508° E	41,842032° N	150,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R66	14,970436° E	41,842602° N	146,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R67	14,973075° E	41,844550° N	141,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R7	14,959510° E	41,773109° N	324,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R71	14,961091° E	41,853102° N	130,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R72	14,963021° E	41,855683° N	127,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R73	14,973747° E	41,848654° N	139,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R74	14,975496° E	41,849784° N	133,5	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R75	14,976717° E	41,848910° N	132,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R76	14,981135° E	41,809234° N	201,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R78	14,958087° E	41,816852° N	193,2	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R79	14,955607° E	41,843279° N	146,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R82	14,976423° E	41,839570° N	147,9	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R85	14,978519° E	41,813964° N	170,7	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R91	14,976927° E	41,851337° N	127,1	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R93	14,976662° E	41,851193° N	129,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0

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SHADOW - Main Result

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No.	Longitude	Latitude	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
			[m]	[m]	[m]	[m]	[°]		[m]
R94	14,974945° E	41,857732° N	115,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R95	14,967369° E	41,861255° N	119,3	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R96	14,966648° E	41,861211° N	119,4	1,0	1,0	1,0	90,0	"Green house mode"	2,0
R99	14,967745° E	41,861630° N	119,0	1,0	1,0	1,0	90,0	"Green house mode"	2,0

Calculation Results

Shadow receptor

No.	Shadow, worst case			Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]	
R100	78:45	76	1:16	15:34	
R101	83:39	79	1:17	16:37	
R102	67:59	70	1:11	13:23	
R103	124:04	102	1:25	24:57	
R106	138:02	175	1:15	30:46	
R107	128:43	166	1:12	29:27	
R109	144:33	157	1:20	31:00	
R113	17:57	57	0:25	2:56	
R114	107:48	124	1:10	17:35	
R115	0:00	0	0:00	0:00	
R116	104:47	113	1:13	24:47	
R117	95:34	111	1:15	18:56	
R118	82:53	90	1:26	15:47	
R119	83:33	83	1:31	15:38	
R12	101:37	211	1:08	21:24	
R13	179:25	154	2:02	37:20	
R17	177:40	296	1:15	35:37	
R19	268:37	221	2:35	48:47	
R20	35:17	87	0:33	7:37	
R21	19:22	65	0:26	4:11	
R22	33:21	85	0:32	7:15	
R24	92:15	117	1:10	20:13	
R25	111:17	190	1:09	23:49	
R26	32:19	94	0:30	6:59	
R27	34:40	121	0:24	7:07	
R28	15:01	58	0:24	3:08	
R29	50:04	129	0:34	10:37	
R30	82:20	204	0:32	16:53	
R31	81:28	101	1:15	16:23	
R32	79:37	82	1:28	14:50	
R35	122:39	124	1:28	20:01	
R39	101:15	112	1:22	20:12	
R40	20:59	76	0:24	4:01	
R41	16:59	66	0:21	3:12	
R42	0:00	0	0:00	0:00	
R43	4:26	34	0:11	0:57	
R45	20:47	62	0:27	4:28	
R5	183:09	189	1:21	41:54	
R52	42:10	128	0:35	9:08	
R53	71:04	109	1:01	15:02	
R56	98:30	131	1:17	21:58	
R57	103:46	190	1:03	21:54	
R59	201:14	227	1:20	40:27	
R60	123:00	148	1:20	22:21	
R61	150:31	92	1:54	29:14	
R61bis	118:45	82	1:42	22:50	
R62	18:00	74	0:23	3:27	
R63	27:44	78	0:33	5:19	
R64	17:28	85	0:22	3:26	
R65	103:18	92	1:35	17:07	
R66	73:40	98	0:51	11:15	
R67	101:01	165	0:53	21:01	
R7	224:30	215	2:03	45:53	

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SHADOW - Main Result

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No.	Shadow, worst case		Shadow, expected values	
	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
R71	129:56	163	1:15	27:53
R72	131:57	181	1:05	28:07
R73	122:43	159	1:01	27:44
R74	76:05	132	0:50	16:54
R75	66:23	126	0:45	14:46
R76	48:18	67	1:06	9:11
R78	0:00	0	0:00	0:00
R79	127:26	173	0:55	26:11
R82	43:32	109	0:35	7:47
R85	35:36	56	0:49	5:50
R91	53:53	110	0:43	10:35
R93	56:37	113	0:44	11:13
R94	297:59	245	2:08	61:09
R95	137:54	104	1:32	27:55
R96	142:24	112	1:27	28:46
R99	99:12	84	1:25	19:42

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

No.	Name	Worst case [h/year]	Expected [h/year]
100	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (82)	0:00	0:00
101	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (83)	0:00	0:00
102	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (84)	0:00	0:00
103	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (85)	0:00	0:00
104	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (86)	0:00	0:00
105	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (87)	0:00	0:00
106	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (88)	0:00	0:00
107	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (89)	0:00	0:00
108	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (90)	0:00	0:00
109	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (91)	0:00	0:00
110	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (92)	0:00	0:00
111	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (93)	0:00	0:00
24	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (1)	0:00	0:00
25	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (2)	0:00	0:00
26	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (3)	0:00	0:00
27	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (4)	0:00	0:00
28	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (5)	0:00	0:00
29	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (11)	0:00	0:00
30	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (12)	0:00	0:00
31	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (13)	0:00	0:00
32	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (14)	0:00	0:00
33	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (15)	0:00	0:00
34	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (16)	0:00	0:00
35	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (17)	0:00	0:00
36	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (18)	0:00	0:00
37	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (19)	0:00	0:00
38	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (20)	0:00	0:00
39	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (21)	0:00	0:00
40	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (22)	0:00	0:00
41	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (23)	0:00	0:00
42	VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (24)	0:00	0:00
43	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (25)	0:00	0:00
44	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (26)	0:00	0:00
45	REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (27)	0:00	0:00
46	REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (28)	0:00	0:00
47	REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (29)	0:00	0:00
48	REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (30)	0:00	0:00
49	REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (31)	0:00	0:00
50	REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (32)	0:00	0:00
51	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (33)	0:00	0:00
52	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (34)	0:00	0:00
53	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (35)	0:00	0:00
54	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (36)	0:00	0:00

To be continued on next page...

SHADOW - Main Result

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
55	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (37)	0:00	0:00
56	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (38)	0:00	0:00
57	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (39)	0:00	0:00
58	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (40)	0:00	0:00
59	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (41)	0:00	0:00
60	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (42)	0:00	0:00
61	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (43)	0:00	0:00
62	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (44)	0:00	0:00
63	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (45)	0:00	0:00
64	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (46)	0:00	0:00
65	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (47)	0:00	0:00
66	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (48)	0:00	0:00
67	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (49)	9:56	1:57
68	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (50)	0:00	0:00
69	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (51)	47:50	10:15
70	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (52)	0:00	0:00
71	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (53)	0:00	0:00
72	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (54)	0:00	0:00
73	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (55)	0:00	0:00
74	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (56)	0:00	0:00
75	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (57)	0:00	0:00
76	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (58)	0:00	0:00
77	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (59)	0:00	0:00
78	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (60)	4:19	0:50
79	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (61)	0:00	0:00
80	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (62)	37:00	7:19
81	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (63)	0:00	0:00
82	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (64)	0:00	0:00
83	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (65)	0:00	0:00
84	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (66)	0:00	0:00
85	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (67)	0:00	0:00
86	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (68)	0:00	0:00
87	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (69)	0:00	0:00
88	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (70)	0:00	0:00
89	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (71)	0:00	0:00
90	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (72)	0:00	0:00
91	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (73)	0:00	0:00
92	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (74)	0:00	0:00
93	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (75)	0:00	0:00
94	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (76)	0:00	0:00
95	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (77)	0:00	0:00
96	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (78)	0:00	0:00
97	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (79)	0:00	0:00
98	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (80)	0:00	0:00
99	VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (81)	0:00	0:00
MT 01	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (1)	197:40	40:25
MT 02	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (2)	184:49	39:34
MT 03	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (3)	76:40	15:51
MT 04	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (4)	184:44	38:12
MT 05	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (5)	56:10	13:37
MT 06	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (6)	29:50	5:05
MT 07	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (7)	129:55	21:53
MT 08	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (8)	55:29	9:50
MT 09	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (9)	135:20	28:19
MT 10	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (10)	132:42	26:51
MT 11	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (11)	512:08	101:14
MT 12	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (12)	24:05	5:20
MT 13	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (13)	233:38	49:34
MT 14	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (14)	264:58	48:59
MT 15	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (15)	66:23	13:28
MT 16	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (16)	525:11	98:20
MT 17	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (17)	221:27	43:19
MT 18	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (18)	104:06	21:44
MT 19	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (19)	157:11	31:14
MT 20	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (20)	588:59	129:55
MT 21	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (21)	333:56	73:24

To be continued on next page...

Project:

WF Montorio

Licensed user:

Ge.co.Dor srl

Via P.Amedeo n.32

IT-75021 Colobraro (MT)

Gaetano / info@gecodor.it

Calculated:

15/02/2022 19:06/3.4.424

SHADOW - Main Result

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
MT 22	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (22)	202:35	42:50
MT 23	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (23)	271:50	53:33

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: R100 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (57)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:28 16:40	09:58 (MT 20) 11:12 (MT 20)	07:14 17:15	06:37 19:25	06:45 19:58	05:58 20:29	05:28 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31	09:47 (MT 20) 10:55 (MT 20)
2	07:28 16:41	09:58 (MT 20) 11:12 (MT 20)	07:13 17:16	06:36 19:26	06:44 19:59	05:57 20:29	05:28 20:40	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31	09:47 (MT 20) 10:56 (MT 20)
3	07:29 16:41	09:59 (MT 20) 11:13 (MT 20)	07:12 17:17	06:34 19:27	06:42 20:00	05:58 20:30	05:29 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30	09:47 (MT 20) 10:57 (MT 20)
4	07:29 16:42	10:00 (MT 20) 11:13 (MT 20)	07:11 17:19	06:32 19:28	06:40 20:01	05:54 20:31	05:27 20:39	05:30 20:17	06:28 19:31	07:00 18:39	06:36 16:52	07:11 16:30	09:47 (MT 20) 10:58 (MT 20)
5	07:29 16:43	10:00 (MT 20) 11:13 (MT 20)	07:10 17:20	06:31 19:30	06:38 20:02	05:53 20:32	05:27 20:39	05:31 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30	09:47 (MT 20) 10:58 (MT 20)
6	07:29 16:44	10:01 (MT 20) 11:13 (MT 20)	07:09 17:21	06:29 19:31	06:37 20:04	05:52 20:32	05:26 20:39	05:32 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:13 16:30	09:47 (MT 20) 10:59 (MT 20)
7	07:28 16:45	10:02 (MT 20) 11:13 (MT 20)	07:08 17:22	06:28 19:32	06:35 20:05	05:51 20:33	05:26 20:38	05:32 20:13	06:31 19:26	07:03 18:34	06:39 16:49	07:14 16:30	09:48 (MT 20) 11:00 (MT 20)
8	07:28 16:46	10:03 (MT 20) 11:14 (MT 20)	07:07 17:24	06:26 19:33	06:33 20:06	05:49 20:33	05:26 20:38	06:00 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30	09:48 (MT 20) 11:01 (MT 20)
9	07:28 16:47	10:03 (MT 20) 11:14 (MT 20)	07:05 17:25	06:24 19:34	06:32 20:07	05:48 20:34	05:26 20:38	06:01 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:16 16:30	09:48 (MT 20) 11:02 (MT 20)
10	07:28 16:48	10:04 (MT 20) 11:13 (MT 20)	07:04 17:26	06:23 19:35	06:30 20:08	05:47 20:35	05:25 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30	09:48 (MT 20) 11:02 (MT 20)
11	07:28 16:49	10:05 (MT 20) 11:13 (MT 20)	07:03 17:28	06:21 19:36	06:29 20:09	05:46 20:35	05:25 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30	09:48 (MT 20) 11:02 (MT 20)
12	07:27 16:50	10:06 (MT 20) 11:12 (MT 20)	07:02 17:29	06:19 19:37	06:27 20:10	05:45 20:36	05:25 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30	09:48 (MT 20) 11:03 (MT 20)
13	07:27 16:52	10:07 (MT 20) 11:12 (MT 20)	07:00 17:30	06:18 19:38	06:25 20:11	05:44 20:36	05:25 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	07:19 16:30	09:49 (MT 20) 11:04 (MT 20)
14	07:27 16:53	10:07 (MT 20) 11:11 (MT 20)	06:59 17:31	06:16 19:39	06:24 20:12	05:43 20:37	05:25 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	10 07:20 16:30	09:49 (MT 20) 11:05 (MT 20)
15	07:26 16:54	10:09 (MT 20) 11:10 (MT 20)	06:58 17:33	06:14 19:41	06:22 20:13	05:42 20:37	05:25 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	22 07:21 16:30	09:50 (MT 20) 11:06 (MT 20)
16	07:26 16:55	10:09 (MT 20) 11:10 (MT 20)	06:56 17:34	06:13 19:42	06:20 20:14	05:41 20:38	05:25 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	30 07:21 16:30	09:50 (MT 20) 11:06 (MT 20)
17	07:25 16:56	10:11 (MT 20) 11:10 (MT 20)	06:55 17:35	06:11 19:43	06:19 20:15	05:40 20:38	05:25 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	35 07:22 16:31	09:50 (MT 20) 11:06 (MT 20)
18	07:25 16:57	10:12 (MT 20) 11:09 (MT 20)	06:54 17:36	06:09 19:44	06:17 20:16	05:39 20:38	05:25 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	40 07:23 16:31	09:51 (MT 20) 11:07 (MT 20)
19	07:24 16:58	10:14 (MT 20) 11:09 (MT 20)	06:52 17:38	06:07 19:45	06:16 20:17	05:38 20:39	05:25 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:37	43 07:23 16:31	09:51 (MT 20) 11:07 (MT 20)
20	07:24 17:00	10:15 (MT 20) 11:07 (MT 20)	06:51 17:39	06:06 19:46	06:14 20:18	05:37 20:39	05:25 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	47 07:24 16:32	09:52 (MT 20) 11:08 (MT 20)
21	07:23 17:01	10:16 (MT 20) 11:06 (MT 20)	06:49 17:40	06:04 19:47	06:13 20:19	05:36 20:39	05:25 20:31	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	50 07:24 16:32	09:52 (MT 20) 11:08 (MT 20)
22	07:23 17:02	10:18 (MT 20) 11:05 (MT 20)	06:48 17:41	06:02 19:48	06:11 20:20	05:35 20:39	05:26 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	52 07:25 16:33	09:53 (MT 20) 11:09 (MT 20)
23	07:22 17:03	10:20 (MT 20) 11:03 (MT 20)	06:46 17:43	06:01 19:49	06:10 20:21	05:34 20:39	05:26 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	55 07:25 16:33	09:53 (MT 20) 11:09 (MT 20)
24	07:21 17:05	10:22 (MT 20) 11:01 (MT 20)	06:45 17:44	05:59 19:50	06:08 20:22	05:34 20:40	05:26 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	57 07:26 16:34	09:54 (MT 20) 11:10 (MT 20)
25	07:20 17:06	10:24 (MT 20) 10:59 (MT 20)	06:43 17:45	05:57 19:52	06:07 20:23	05:33 20:40	05:26 20:27	06:18 19:47	06:50 18:54	07:23 17:06	07:01 16:34	59 07:26 16:34	09:54 (MT 20) 11:10 (MT 20)
26	07:20 17:07	10:26 (MT 20) 10:56 (MT 20)	06:42 17:46	05:55 19:53	06:05 20:24	05:32 20:40	05:27 20:26	06:19 19:46	06:51 18:53	07:25 17:04	07:02 16:33	61 07:27 16:35	09:54 (MT 20) 11:10 (MT 20)
27	07:19 17:08	10:30 (MT 20) 10:52 (MT 20)	06:40 17:47	05:54 19:54	06:04 20:24	05:31 20:40	05:27 20:25	06:20 19:44	06:52 18:51	07:26 17:03	07:03 16:32	62 07:27 16:36	09:54 (MT 20) 11:10 (MT 20)
28	07:18 17:10	10:37 (MT 20) 10:46 (MT 20)	06:39 17:49	05:52 19:55	06:02 20:25	05:31 20:40	05:27 20:24	06:21 19:42	06:53 18:49	07:27 17:01	07:04 16:32	64 07:27 16:36	09:55 (MT 20) 11:11 (MT 20)
29	07:17 17:11	10:40 (MT 20) 10:48 (MT 20)	06:38 17:50	05:51 19:56	06:01 20:26	05:30 20:40	05:28 20:23	06:22 19:41	06:54 18:47	07:28 17:00	07:06 16:32	65 07:28 16:37	09:55 (MT 20) 11:12 (MT 20)
30	07:16 17:12	10:43 (MT 20) 10:51 (MT 20)	06:37 17:51	05:50 19:57	06:00 20:27	05:29 20:40	05:28 20:22	06:23 19:39	06:55 18:46	07:29 16:59	07:07 16:31	66 07:28 16:38	09:57 (MT 20) 11:12 (MT 20)
31	07:15 17:13	10:46 (MT 20) 10:50 (MT 20)	06:36 17:52	05:49 19:58	05:59 20:28	05:28 20:40	05:27 20:21	06:24 19:37	06:56 18:46	07:30 16:57	07:08 16:31	67 07:28 16:39	09:57 (MT 20) 11:12 (MT 20)
Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285	
Total, worst case	1605										818		2302
Sun reduction	0,44										0,41		0,36
Oper. time red.	0,70										0,70		0,70
Wind dir. red.	0,71										0,71		0,71
Total reduction	0,22										0,20		0,18
Total, real	353										165		417

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: R101 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (58)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December						
1	07:28	09:49 (MT 20)	07:14	06:37	06:45	05:58	05:29	05:29	05:53	06:25	06:56	06:32	07:08	09:38 (MT 20)				
	16:40	75	11:04 (MT 20)	17:15	17:50	19:25	19:58	20:29	20:40	20:20	19:36	18:44	16:56	16:31	70	10:48 (MT 20)		
2	07:28	09:49 (MT 20)	07:13	06:36	06:44	05:57	05:28	05:29	05:54	06:26	06:58	06:33	07:09	09:38 (MT 20)				
	16:41	75	11:04 (MT 20)	17:16	17:51	19:26	19:59	20:29	20:40	20:19	19:34	18:42	16:55	16:31	70	10:48 (MT 20)		
3	07:29	09:50 (MT 20)	07:12	06:34	06:42	05:56	05:28	05:30	05:55	06:27	06:59	06:34	07:10	09:38 (MT 20)				
	16:41	75	11:05 (MT 20)	17:17	17:52	19:27	20:00	20:30	20:39	20:18	19:32	18:41	16:54	16:30	71	10:49 (MT 20)		
4	07:29	09:50 (MT 20)	07:11	06:32	06:40	05:54	05:27	05:30	05:56	06:28	07:00	06:36	07:11	09:38 (MT 20)				
	16:42	75	11:05 (MT 20)	17:19	17:53	19:28	20:01	20:31	20:39	20:17	19:31	18:39	16:52	16:30	72	10:50 (MT 20)		
5	07:29	09:51 (MT 20)	07:10	06:31	06:38	05:53	05:27	05:31	05:57	06:29	07:01	06:37	07:12	09:38 (MT 20)				
	16:43	74	11:05 (MT 20)	17:20	17:55	19:30	20:02	20:32	20:39	20:15	19:29	18:37	16:51	16:30	73	10:51 (MT 20)		
6	07:29	09:52 (MT 20)	07:09	06:29	06:37	05:52	05:26	05:32	05:58	06:30	07:02	06:38	07:13	09:38 (MT 20)				
	16:44	73	11:05 (MT 20)	17:21	17:56	19:31	20:04	20:32	20:39	20:14	19:27	18:36	16:50	16:30	73	10:51 (MT 20)		
7	07:28	09:53 (MT 20)	07:08	06:28	06:35	05:51	05:26	05:32	05:59	06:31	07:03	06:39	07:14	09:38 (MT 20)				
	16:45	73	11:06 (MT 20)	17:22	17:57	19:32	20:05	20:33	20:38	20:13	19:26	18:34	16:49	16:30	74	10:52 (MT 20)		
8	07:28	09:54 (MT 20)	07:07	06:26	06:33	05:49	05:26	05:33	06:00	06:33	07:04	06:40	07:15	09:38 (MT 20)				
	16:46	72	11:06 (MT 20)	17:24	17:58	19:33	20:06	20:33	20:38	20:12	19:24	18:32	16:48	16:30	75	10:53 (MT 20)		
9	07:28	09:54 (MT 20)	07:05	06:24	06:32	05:48	05:26	05:33	06:01	06:34	07:05	06:42	07:16	09:39 (MT 20)				
	16:47	71	11:05 (MT 20)	17:25	17:59	19:34	20:07	20:34	20:38	20:10	19:22	18:31	16:47	16:30	75	10:54 (MT 20)		
10	07:28	09:55 (MT 20)	07:04	06:23	06:30	05:47	05:25	05:34	06:03	06:35	07:06	06:43	07:16	09:39 (MT 20)				
	16:48	70	11:05 (MT 20)	17:26	18:00	19:35	20:08	20:35	20:37	20:09	19:21	18:29	16:46	16:30	75	10:54 (MT 20)		
11	07:28	09:56 (MT 20)	07:03	06:21	06:29	05:46	05:25	05:35	06:04	06:36	07:07	06:44	07:17	09:39 (MT 20)				
	16:49	70	11:06 (MT 20)	17:28	18:02	19:36	20:09	20:35	20:37	20:08	19:19	18:27	16:45	16:30	75	10:54 (MT 20)		
12	07:27	09:56 (MT 20)	07:02	06:19	06:27	05:45	05:25	05:36	06:05	06:37	07:08	06:45	07:18	09:39 (MT 20)				
	16:50	69	11:05 (MT 20)	17:29	18:03	19:37	20:10	20:36	20:36	20:06	19:17	18:26	16:44	3	10:06 (MT 20)	16:30	76	10:55 (MT 20)
13	07:27	09:57 (MT 20)	07:00	06:18	06:25	05:44	05:25	05:36	06:06	06:38	07:10	06:47	07:19	09:40 (MT 20)				
	16:52	68	11:05 (MT 20)	17:30	18:04	19:38	20:11	20:36	20:36	20:05	19:15	18:24	16:43	20	10:15 (MT 20)	16:30	76	10:56 (MT 20)
14	07:27	09:57 (MT 20)	06:59	06:16	06:24	05:43	05:25	05:37	06:07	06:39	07:11	06:48	07:20	09:41 (MT 20)				
	16:53	67	11:04 (MT 20)	17:31	18:05	19:39	20:12	20:37	20:35	20:04	19:14	18:22	16:42	29	10:20 (MT 20)	16:30	77	10:57 (MT 20)
15	07:26	09:59 (MT 20)	06:58	06:14	06:22	05:42	05:25	05:38	06:08	06:40	07:12	06:49	07:21	09:49 (MT 20)				
	16:54	65	11:04 (MT 20)	17:33	18:06	19:41	20:13	20:37	20:35	20:02	19:12	18:21	16:41	34	10:23 (MT 20)	16:30	76	10:57 (MT 20)
16	07:26	09:59 (MT 20)	06:56	06:13	06:20	05:41	05:25	05:39	06:09	06:41	07:13	06:50	07:21	09:46 (MT 20)				
	16:55	64	11:03 (MT 20)	17:34	18:07	19:42	20:14	20:38	20:34	20:01	19:10	18:19	16:40	39	10:25 (MT 20)	16:30	76	10:57 (MT 20)
17	07:25	10:01 (MT 20)	06:55	06:11	06:19	05:40	05:25	05:40	06:10	06:42	07:14	06:51	07:22	09:45 (MT 20)				
	16:56	62	11:03 (MT 20)	17:35	18:08	19:43	20:15	20:38	20:33	19:59	19:08	18:18	16:39	43	10:28 (MT 20)	16:31	77	10:58 (MT 20)
18	07:25	10:01 (MT 20)	06:54	06:09	06:17	05:39	05:25	05:40	06:11	06:43	07:15	06:53	07:23	09:44 (MT 20)				
	16:57	61	11:02 (MT 20)	17:36	18:10	19:44	20:16	20:38	20:33	19:58	19:07	18:16	16:38	46	10:30 (MT 20)	16:31	77	10:59 (MT 20)
19	07:24	10:03 (MT 20)	06:52	06:07	06:16	05:38	05:25	05:41	06:12	06:44	07:16	06:54	07:23	09:42 (MT 20)				
	16:58	59	11:02 (MT 20)	17:38	18:11	19:45	20:17	20:39	20:32	19:56	19:05	18:15	16:37	50	10:32 (MT 20)	16:31	77	10:59 (MT 20)
20	07:24	10:04 (MT 20)	06:51	06:06	06:14	05:37	05:25	05:42	06:13	06:45	07:18	06:55	07:24	09:42 (MT 20)				
	17:00	57	11:01 (MT 20)	17:39	18:12	19:46	20:18	20:39	20:31	19:55	19:03	18:13	16:37	52	10:34 (MT 20)	16:32	77	11:00 (MT 20)
21	07:23	10:05 (MT 20)	06:49	06:04	06:13	05:36	05:25	05:43	06:14	06:46	07:19	06:56	07:24	09:41 (MT 20)				
	17:01	55	11:00 (MT 20)	17:40	18:13	19:47	20:19	20:39	20:31	19:53	19:01	18:12	16:36	55	10:36 (MT 20)	16:32	77	11:00 (MT 20)
22	07:23	10:07 (MT 20)	06:48	06:02	06:11	05:35	05:26	05:44	06:15	06:47	07:20	06:57	07:25	09:40 (MT 20)				
	17:02	52	10:59 (MT 20)	17:41	18:14	19:48	20:20	20:39	20:30	19:52	19:00	18:10	16:35	57	10:37 (MT 20)	16:33	77	11:01 (MT 20)
23	07:22	10:08 (MT 20)	06:46	06:01	06:10	05:34	05:26	05:45	06:16	06:48	07:21	06:59	07:25	09:39 (MT 20)				
	17:03	50	10:58 (MT 20)	17:43	18:15	19:49	20:21	20:39	20:29	19:50	18:58	18:09	16:35	59	10:38 (MT 20)	16:33	77	11:01 (MT 20)
24	07:21	10:10 (MT 20)	06:45	05:59	06:08	05:34	05:26	05:46	06:17	06:49	07:22	07:00	07:26	09:40 (MT 20)				
	17:05	46	10:56 (MT 20)	17:44	18:16	19:50	20:22	20:40	20:28	19:49	18:56	18:07	16:34	60	10:40 (MT 20)	16:34	77	11:02 (MT 20)
25	07:20	10:11 (MT 20)	06:43	05:57	06:07	05:33	05:26	05:47	06:18	06:50	07:23	07:01	07:26	09:39 (MT 20)				
	17:06	43	10:54 (MT 20)	17:45	18:17	19:52	20:23	20:40	20:27	19:47	18:54	17:06	16:34	62	10:41 (MT 20)	16:34	77	11:02 (MT 20)
26	07:20	10:13 (MT 20)	06:42	05:55	06:05	05:32	05:27	05:48	06:19	06:51	07:25	07:02	07:27	09:38 (MT 20)				
	17:07	39	10:52 (MT 20)	17:46	18:18	19:53	20:24	20:40	20:26	19:46	18:53	17:04	16:33	64	10:42 (MT 20)	16:35	77	11:02 (MT 20)
27	07:19	10:16 (MT 20)	06:40	05:54	06:04	05:31	05:27	05:49	06:20	06:52	07:26	07:03	07:27	09:38 (MT 20)				
	17:08	34	10:50 (MT 20)	17:47	18:20	19:54	20:24	20:40	20:25	19:44	18:51	17:03	16:32	65	10:43 (MT 20)	16:36	77	11:02 (MT 20)
28	07:18	10:20 (MT 20)	06:39	05:52	06:02	05:31	05:27	05:49	06:21	06:53	07:27	07:04	07:27	09:38 (MT 20)				
	17:10	27	10:47 (MT 20)	17:49	18:21	19:55	20:25	20:40	20:24	19:42	18:49	17:01	16:32	66	10:44 (MT 20)	16:36	76	11:03 (MT 20)
29	07:17	10:23 (MT 20)		06:50	06:01	05:30	05:28	05:50	06:22	06:54	07:28	07:06	07:28	09:37 (MT 20)				
	17:11	20	10:43 (MT 20)	19:22	19:56	20:26	20:40	20:23	19:41	18:47	17:00	16:32	68	10:45 (MT 20)	16:37	77	11:04 (MT 20)	
30	07:16			06:49	06:00	05:30	05:28	05:51	06:23	06:55	07:29	07:07	07:28	09:38 (MT 20)				
	17:12			19:23	19:57	20:27	20:40	20:22	19:39	18:46	16:59	16:31	69	10:47 (MT 20)	16:38	77	11:04 (MT 20)	
31	07:15			06:47		05:29		05:52	06:24		06:31		07:28	09:48 (MT 20)				
	17:13			19:24		20:28		20:21	19:37		16:57		16:39	76	11:04 (MT 20)			
Potential sun hours	295		296	369	400	451	455	462	429	375	344	296		285				

SHADOW - Calendar

Shadow receptor: R102 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (59)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

N NNE ENE E ESE SSE S SSW WSW W WNW NNW Sum
981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1 07:28	09:54 (MT 20)	07:14	06:37	06:45	05:58	05:29	05:29	05:53	06:25	06:56	06:32	07:08
16:40	69 11:03 (MT 20)	17:15	17:50	19:25	19:58	20:29	20:40	20:20	19:36	18:44	16:56	16:31
2 07:28	09:55 (MT 20)	07:13	06:36	06:44	05:57	05:28	05:29	05:54	06:26	06:58	06:33	07:09
16:41	68 11:03 (MT 20)	17:16	17:51	19:26	19:59	20:29	20:40	20:19	19:34	18:42	16:55	16:31
3 07:29	09:56 (MT 20)	07:12	06:34	06:42	05:56	05:28	05:30	05:55	06:27	06:59	06:34	07:10
16:41	68 11:04 (MT 20)	17:17	17:52	19:27	20:00	20:30	20:39	20:18	19:32	18:41	16:54	16:30
4 07:29	09:56 (MT 20)	07:11	06:32	06:40	05:54	05:27	05:30	05:56	06:28	07:00	06:36	07:11
16:42	68 11:04 (MT 20)	17:19	17:53	19:28	20:01	20:31	20:39	20:17	19:31	18:39	16:52	16:30
5 07:29	09:57 (MT 20)	07:10	06:31	06:38	05:53	05:27	05:31	05:57	06:29	07:01	06:37	07:12
16:43	67 11:04 (MT 20)	17:20	17:55	19:30	20:02	20:32	20:39	20:15	19:29	18:37	16:51	16:30
6 07:29	09:58 (MT 20)	07:09	06:29	06:37	05:52	05:26	05:32	05:58	06:30	07:02	06:38	07:13
16:44	66 11:04 (MT 20)	17:21	17:56	19:31	20:04	20:32	20:39	20:14	19:27	18:36	16:50	16:30
7 07:28	09:59 (MT 20)	07:08	06:28	06:35	05:51	05:26	05:32	05:59	06:31	07:03	06:39	07:14
16:45	65 11:04 (MT 20)	17:22	17:57	19:32	20:05	20:33	20:38	20:13	19:26	18:34	16:49	16:30
8 07:28	10:00 (MT 20)	07:07	06:26	06:33	05:49	05:26	05:33	06:00	06:33	07:04	06:40	07:15
16:46	64 11:04 (MT 20)	17:24	17:58	19:33	20:06	20:33	20:38	20:12	19:24	18:32	16:48	16:30
9 07:28	10:00 (MT 20)	07:05	06:24	06:32	05:48	05:26	05:33	06:01	06:34	07:05	06:42	07:16
16:47	63 11:03 (MT 20)	17:25	17:59	19:34	20:07	20:34	20:38	20:10	19:22	18:31	16:47	16:30
10 07:28	10:01 (MT 20)	07:04	06:23	06:30	05:47	05:25	05:34	06:03	06:35	07:06	06:43	07:16
16:48	62 11:03 (MT 20)	17:26	18:00	19:35	20:08	20:35	20:37	20:09	19:21	18:29	16:46	16:30
11 07:28	10:02 (MT 20)	07:03	06:21	06:29	05:46	05:25	05:35	06:04	06:36	07:07	06:44	07:17
16:49	61 11:03 (MT 20)	17:28	18:02	19:36	20:09	20:35	20:37	20:08	19:19	18:27	16:45	16:30
12 07:27	10:03 (MT 20)	07:02	06:19	06:27	05:45	05:25	05:36	06:05	06:37	07:08	06:45	07:18
16:50	59 11:02 (MT 20)	17:29	18:03	19:37	20:10	20:36	20:36	20:06	19:17	18:26	16:44	16:30
13 07:27	10:04 (MT 20)	07:00	06:18	06:25	05:44	05:25	05:36	06:06	06:38	07:10	06:47	07:19
16:52	58 11:02 (MT 20)	17:30	18:04	19:38	20:11	20:36	20:36	20:05	19:15	18:24	16:43	16:30
14 07:27	10:05 (MT 20)	06:59	06:16	06:24	05:43	05:25	05:37	06:07	06:39	07:11	06:48	07:20
16:53	56 11:01 (MT 20)	17:31	18:05	19:39	20:12	20:37	20:35	20:04	19:14	18:22	16:42	16:30
15 07:26	10:06 (MT 20)	06:58	06:14	06:22	05:42	05:25	05:38	06:08	06:40	07:12	06:49	07:21
16:54	55 11:01 (MT 20)	17:33	18:06	19:41	20:13	20:37	20:35	20:02	19:12	18:21	16:41	16:30
16 07:26	10:07 (MT 20)	06:56	06:13	06:20	05:41	05:25	05:39	06:09	06:41	07:13	06:50	07:21
16:55	53 11:00 (MT 20)	17:34	18:07	19:42	20:14	20:38	20:34	20:01	19:10	18:19	16:40	16:30
17 07:25	10:09 (MT 20)	06:55	06:11	06:19	05:40	05:25	05:40	06:10	06:42	07:14	06:51	07:22
16:56	51 11:00 (MT 20)	17:35	18:08	19:43	20:15	20:38	20:33	19:59	19:08	18:18	16:39	16 10:01 (MT 20)
18 07:25	10:10 (MT 20)	06:54	06:09	06:17	05:39	05:25	05:40	06:11	06:43	07:15	06:53	09:57 (MT 20)
16:57	48 10:58 (MT 20)	17:36	18:10	19:44	20:16	20:38	20:33	19:58	19:07	18:16	16:38	24 10:21 (MT 20)
19 07:24	10:12 (MT 20)	06:52	06:07	06:16	05:38	05:25	05:41	06:12	06:44	07:16	06:54	09:54 (MT 20)
16:58	46 10:58 (MT 20)	17:38	18:11	19:45	20:17	20:39	20:32	19:56	19:05	18:15	16:37	30 10:24 (MT 20)
20 07:24	10:13 (MT 20)	06:51	06:06	06:14	05:37	05:25	05:42	06:13	06:45	07:18	06:55	09:53 (MT 20)
17:00	43 10:56 (MT 20)	17:39	18:12	19:46	20:18	20:39	20:31	19:55	19:03	18:13	16:37	35 10:28 (MT 20)
21 07:23	10:15 (MT 20)	06:49	06:04	06:13	05:36	05:25	05:43	06:14	06:46	07:19	06:56	09:51 (MT 20)
17:01	39 10:54 (MT 20)	17:40	18:13	19:47	20:19	20:39	20:31	19:53	19:01	18:12	16:36	39 10:30 (MT 20)
22 07:23	10:18 (MT 20)	06:48	06:02	06:11	05:35	05:26	05:44	06:15	06:47	07:20	06:57	09:49 (MT 20)
17:02	35 10:53 (MT 20)	17:41	18:14	19:48	20:20	20:39	20:30	19:52	19:00	18:10	16:35	43 10:32 (MT 20)
23 07:22	10:20 (MT 20)	06:46	06:01	06:10	05:34	05:26	05:45	06:16	06:48	07:21	06:59	09:48 (MT 20)
17:03	30 10:50 (MT 20)	17:43	18:15	19:49	20:21	20:39	20:29	19:50	18:58	18:09	16:35	46 10:34 (MT 20)
24 07:21	10:23 (MT 20)	06:45	05:59	06:08	05:34	05:26	05:46	06:17	06:49	07:22	07:00	09:48 (MT 20)
17:05	24 10:47 (MT 20)	17:44	18:16	19:50	20:22	20:40	20:28	19:49	18:56	18:07	16:34	48 10:36 (MT 20)
25 07:20	10:27 (MT 20)	06:43	05:57	06:07	05:33	05:26	05:47	06:18	06:50	07:23	07:01	09:47 (MT 20)
17:06	16 10:43 (MT 20)	17:45	18:17	19:52	20:23	20:40	20:27	19:47	18:54	17:06	16:34	51 10:38 (MT 20)
26 07:20		06:42	05:55	06:05	05:32	05:27	05:48	06:19	06:51	07:25	07:02	09:46 (MT 20)
17:07		17:46	18:18	19:53	20:24	20:40	20:26	19:46	18:53	17:04	16:33	53 10:39 (MT 20)
27 07:19		06:40	05:54	06:04	05:31	05:27	05:49	06:20	06:52	07:26	07:03	09:45 (MT 20)
17:08		17:47	18:20	19:54	20:24	20:40	20:25	19:44	18:51	17:03	16:32	55 10:40 (MT 20)
28 07:18		06:39	05:52	06:02	05:31	05:27	05:49	06:21	06:53	07:27	07:04	09:45 (MT 20)
17:10		17:49	18:21	19:55	20:25	20:40	20:24	19:42	18:49	17:01	16:32	56 10:41 (MT 20)
29 07:17			06:50	06:01	05:30	05:28	05:50	06:22	06:54	07:28	07:06	09:44 (MT 20)
17:11			19:22	19:56	20:26	20:40	20:23	19:41	18:47	17:00	16:32	58 10:42 (MT 20)
30 07:16			06:49	06:00	05:30	05:28	05:51	06:23	06:55	07:29	07:07	09:45 (MT 20)
17:12			19:23	19:57	20:27	20:40	20:22	19:39	18:46	16:59	16:31	59 10:44 (MT 20)
31 07:15			06:47		05:29		05:52	06:24		06:31		07:28
17:13			19:24		20:28		20:21	19:37		16:57		16:39
Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
Total, worst case	1334										613	2132
Sun reduction	0,44										0,41	0,36
Oper. time red.	0,70										0,70	0,70
Wind dir. red.	0,71										0,71	0,71
Total reduction	0,22										0,20	0,18
Total, real	294										124	386

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: R103 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (60)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	
1	07:28 16:40	09:21 (MT 20) 10:45 (MT 20)	07:14 17:15	09:41 (MT 20) 10:42 (MT 20)	06:37 17:50	06:45 19:25	05:29 20:29
2	07:28 16:41	09:21 (MT 20) 10:45 (MT 20)	07:13 17:16	09:42 (MT 20) 10:41 (MT 20)	06:36 17:51	06:44 19:26	05:28 20:29
3	07:29 16:41	09:22 (MT 20) 10:46 (MT 20)	07:12 17:17	09:42 (MT 20) 10:38 (MT 20)	06:34 17:52	06:42 19:27	05:28 20:30
4	07:29 16:42	09:22 (MT 20) 10:46 (MT 20)	07:11 17:19	09:44 (MT 20) 10:37 (MT 20)	06:32 17:53	06:40 19:28	05:27 20:31
5	07:29 16:43	09:23 (MT 20) 10:47 (MT 20)	07:10 17:20	09:46 (MT 20) 10:35 (MT 20)	06:31 17:55	06:38 19:30	05:27 20:32
6	07:29 16:44	09:23 (MT 20) 10:47 (MT 20)	07:09 17:21	09:48 (MT 20) 10:33 (MT 20)	06:29 17:56	06:37 19:31	05:26 20:32
7	07:28 16:45	09:24 (MT 20) 10:48 (MT 20)	07:08 17:22	09:50 (MT 20) 10:31 (MT 20)	06:28 17:57	06:35 19:32	05:26 20:33
8	07:28 16:46	09:25 (MT 20) 10:48 (MT 20)	07:07 17:24	09:53 (MT 20) 10:28 (MT 20)	06:26 17:58	06:33 19:33	05:26 20:33
9	07:28 16:47	09:24 (MT 20) 10:48 (MT 20)	07:05 17:25	09:55 (MT 20) 10:23 (MT 20)	06:24 17:59	06:32 19:34	05:26 20:34
10	07:28 16:48	09:25 (MT 20) 10:48 (MT 20)	07:04 17:26	10:00 (MT 20) 10:18 (MT 20)	06:23 18:00	06:30 19:35	05:25 20:35
11	07:28 16:49	09:26 (MT 20) 10:49 (MT 20)	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35
12	07:27 16:50	09:26 (MT 20) 10:48 (MT 20)	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36
13	07:27 16:52	09:27 (MT 20) 10:49 (MT 20)	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36
14	07:27 16:53	09:27 (MT 20) 10:49 (MT 20)	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37
15	07:26 16:54	09:28 (MT 20) 10:49 (MT 20)	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37
16	07:26 16:55	09:28 (MT 20) 10:49 (MT 20)	06:56 17:34	06:13 18:07	06:20 19:42	05:41 20:14	05:25 20:38
17	07:25 16:56	09:29 (MT 20) 10:49 (MT 20)	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38
18	07:25 16:57	09:29 (MT 20) 10:49 (MT 20)	06:54 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38
19	07:24 16:58	09:30 (MT 20) 10:49 (MT 20)	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:39
20	07:24 17:00	09:30 (MT 20) 10:49 (MT 20)	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39
21	07:23 17:01	09:31 (MT 20) 10:48 (MT 20)	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39
22	07:23 17:02	09:32 (MT 20) 10:49 (MT 20)	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39
23	07:22 17:03	09:33 (MT 20) 10:48 (MT 20)	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39
24	07:21 17:05	09:33 (MT 20) 10:48 (MT 20)	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:40
25	07:20 17:06	09:34 (MT 20) 10:47 (MT 20)	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:26 20:40
26	07:20 17:07	09:34 (MT 20) 10:46 (MT 20)	06:42 17:46	05:55 18:18	06:05 19:53	05:32 20:24	05:27 20:40
27	07:19 17:08	09:35 (MT 20) 10:46 (MT 20)	06:40 17:47	05:54 18:20	06:04 19:54	05:31 20:24	05:27 20:40
28	07:18 17:10	09:37 (MT 20) 10:46 (MT 20)	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:27 20:40
29	07:17 17:11	09:38 (MT 20) 10:45 (MT 20)		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 17:12	09:39 (MT 20) 10:44 (MT 20)		06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40
31	07:15 17:13	09:40 (MT 20) 10:43 (MT 20)		06:47 19:24		05:29 20:28	
Potential sun hours	295	296		369	400	451	455
Total, worst case	2431		445				
Sun reduction	0,44		0,46				
Oper. time red.	0,70		0,70				
Wind dir. red.	0,71		0,71				
Total reduction	0,22		0,23				
Total, real	533		101				

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: R103 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (60)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	09:29 (MT 20) 09:49 (MT 20)
2	05:29 20:40	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	09:24 (MT 20) 09:54 (MT 20)
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	09:21 (MT 20) 09:57 (MT 20)
4	05:30 20:39	05:56 20:17	06:28 19:31	07:00 18:39	06:36 16:52	09:20 (MT 20) 10:01 (MT 20)
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	09:17 (MT 20) 10:03 (MT 20)
6	05:32 20:39	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	09:15 (MT 20) 10:05 (MT 20)
7	05:32 20:38	05:59 20:13	06:31 19:26	07:03 18:34	06:39 16:49	09:15 (MT 20) 10:08 (MT 20)
8	05:33 20:38	06:00 20:12	06:33 19:24	07:04 18:32	06:40 16:48	09:13 (MT 20) 10:09 (MT 20)
9	05:33 20:38	06:01 20:10	06:34 19:22	07:05 18:31	06:42 16:47	09:12 (MT 20) 10:11 (MT 20)
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	09:12 (MT 20) 10:13 (MT 20)
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	09:10 (MT 20) 10:14 (MT 20)
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	09:09 (MT 20) 10:15 (MT 20)
13	05:36 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	09:10 (MT 20) 10:17 (MT 20)
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	09:09 (MT 20) 10:18 (MT 20)
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	09:08 (MT 20) 10:19 (MT 20)
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	09:07 (MT 20) 10:19 (MT 20)
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	09:08 (MT 20) 10:21 (MT 20)
18	05:40 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	09:07 (MT 20) 10:22 (MT 20)
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:37	09:07 (MT 20) 10:22 (MT 20)
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	09:07 (MT 20) 10:24 (MT 20)
21	05:43 20:31	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	09:07 (MT 20) 10:24 (MT 20)
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	09:06 (MT 20) 10:25 (MT 20)
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	09:06 (MT 20) 10:25 (MT 20)
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	09:07 (MT 20) 10:27 (MT 20)
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	09:07 (MT 20) 10:27 (MT 20)
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	09:07 (MT 20) 10:28 (MT 20)
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:32	09:07 (MT 20) 10:28 (MT 20)
28	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	09:07 (MT 20) 10:29 (MT 20)
29	05:50 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:06 16:32	09:07 (MT 20) 10:29 (MT 20)
30	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	09:08 (MT 20) 10:30 (MT 20)
31	05:52 20:21	06:24 19:37	06:56 18:45	06:31 16:57		07:28 16:39
Potential sun hours	462	429	375	344	296	285
Total, worst case					1964	2604
Sun reduction					0,41	0,36
Oper. time red.					0,70	0,70
Wind dir. red.					0,71	0,71
Total reduction					0,20	0,18
Total, real					394	470

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: R106 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (61)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	07:53 (MT 23) 06:37 08:35 (MT 23) 17:50	06:45 19:25	07:52 (MT 20) 05:58 09:06 (MT 20) 19:58	05:29 20:29
2	07:28 16:41	07:13 17:16	07:53 (MT 23) 06:36 08:36 (MT 23) 17:51	06:44 19:26	07:52 (MT 20) 05:57 09:05 (MT 20) 19:59	05:28 20:29
3	07:29 16:41	07:12 17:17	07:52 (MT 23) 06:34 08:35 (MT 23) 17:52	06:42 19:27	07:52 (MT 20) 05:56 09:05 (MT 20) 20:00	05:28 20:30
4	07:29 16:42	07:11 17:19	07:52 (MT 23) 06:32 08:35 (MT 23) 17:53	06:40 19:28	07:52 (MT 20) 05:54 09:04 (MT 20) 20:01	05:27 20:31
5	07:29 16:43	07:10 17:20	07:52 (MT 23) 06:31 08:35 (MT 23) 17:55	06:38 19:30	07:51 (MT 20) 05:53 09:03 (MT 20) 20:02	05:27 20:32
6	07:29 16:44	07:09 17:21	07:53 (MT 23) 06:29 08:35 (MT 23) 17:56	06:37 19:31	07:52 (MT 20) 05:52 09:03 (MT 20) 20:04	05:26 20:32
7	07:28 16:45	07:08 17:22	07:53 (MT 23) 06:28 08:36 (MT 23) 17:57	06:35 19:32	07:52 (MT 20) 05:51 09:02 (MT 20) 20:05	05:26 20:33
8	07:28 16:46	07:07 17:24	07:54 (MT 23) 06:26 08:35 (MT 23) 17:58	18 07:47 (MT 20) 19:32 07:23 (MT 20) 06:33	70 09:02 (MT 20) 20:05 07:52 (MT 20) 05:49	05:26 20:33
9	07:28 16:47	07:05 17:25	07:53 (MT 23) 06:24 08:34 (MT 23) 17:59	29 07:52 (MT 20) 19:33 07:19 (MT 20) 06:32	68 09:00 (MT 20) 20:06 07:53 (MT 20) 05:48	05:26 20:34
10	07:28 16:48	07:04 17:26	07:54 (MT 23) 06:23 08:34 (MT 23) 18:00	36 07:55 (MT 20) 19:34 07:17 (MT 20) 06:30	67 09:00 (MT 20) 20:07 07:53 (MT 20) 05:47	05:25 20:35
11	07:28 16:49	07:03 17:28	07:55 (MT 23) 06:21 08:34 (MT 23) 18:02	41 07:58 (MT 20) 19:35 07:14 (MT 20) 06:29	65 08:58 (MT 20) 20:08 07:53 (MT 20) 05:46	05:25 20:35
12	07:27 16:50	07:02 17:29	07:55 (MT 23) 06:19 08:32 (MT 23) 18:03	46 08:00 (MT 20) 19:36 07:12 (MT 20) 06:27	64 08:57 (MT 20) 20:09 07:52 (MT 20) 05:45	05:25 20:36
13	07:27 16:52	07:00 17:30	07:56 (MT 23) 06:18 08:32 (MT 23) 18:04	49 08:01 (MT 20) 19:37 07:10 (MT 20) 06:25	62 08:56 (MT 20) 20:10 07:54 (MT 20) 05:44	05:25 20:36
14	07:27 16:53	08:04 (MT 23) 06:59 08:12 (MT 23) 17:31	07:58 (MT 23) 06:16 08:31 (MT 23) 18:05	53 08:03 (MT 20) 19:38 07:08 (MT 20) 06:24	60 08:54 (MT 20) 20:11 07:54 (MT 20) 05:43	05:25 20:37
15	07:26 16:54	08:02 (MT 23) 06:58 08:16 (MT 23) 17:33	07:58 (MT 23) 06:14 08:29 (MT 23) 18:06	56 08:04 (MT 20) 19:39 07:06 (MT 20) 06:22	58 08:52 (MT 20) 20:12 07:55 (MT 20) 05:42	05:25 20:37
16	07:26 16:55	14 08:16 (MT 23) 06:56 08:00 (MT 23) 17:34	08:00 (MT 23) 06:13 08:28 (MT 23) 18:07	59 08:05 (MT 20) 19:41 07:04 (MT 20) 06:20	56 08:51 (MT 20) 20:13 07:56 (MT 20) 05:41	05:25 20:38
17	07:25 16:56	18 08:18 (MT 23) 06:55 07:59 (MT 23) 17:35	08:02 (MT 23) 06:11 08:26 (MT 23) 18:08	62 08:06 (MT 20) 19:42 07:04 (MT 20) 06:19	53 08:49 (MT 20) 20:14 07:57 (MT 20) 05:40	05:25 20:38
18	07:25 16:57	21 08:20 (MT 23) 06:54 07:58 (MT 23) 17:36	08:04 (MT 23) 06:09 08:23 (MT 23) 18:10	63 08:07 (MT 20) 19:43 07:02 (MT 20) 06:17	51 08:48 (MT 20) 20:15 07:58 (MT 20) 05:39	05:25 20:38
19	07:24 16:58	24 08:22 (MT 23) 06:52 07:57 (MT 23) 17:38	08:23 (MT 23) 06:07 08:08 (MT 23) 18:11	65 08:07 (MT 20) 19:44 07:01 (MT 20) 06:16	48 08:46 (MT 20) 20:16 08:00 (MT 20) 05:38	05:25 20:39
20	07:24 17:00	27 08:24 (MT 23) 06:51 07:56 (MT 23) 17:39	12 08:20 (MT 23) 18:11 06:06	67 08:08 (MT 20) 19:45 07:00 (MT 20) 06:14	44 08:44 (MT 20) 20:17 08:01 (MT 20) 05:37	05:25 20:39
21	07:23 17:01	29 08:25 (MT 23) 06:49 07:55 (MT 23) 17:40	18:12 18:13	69 08:09 (MT 20) 19:46 06:59 (MT 20) 06:13	40 08:41 (MT 20) 20:18 08:03 (MT 20) 05:36	05:25 20:39
22	07:23 17:02	31 08:26 (MT 23) 06:48 07:55 (MT 23) 17:41	06:02 18:14	70 08:09 (MT 20) 19:47 06:58 (MT 20) 06:11	37 08:40 (MT 20) 20:19 08:04 (MT 20) 05:35	05:26 20:39
23	07:22 17:03	33 08:28 (MT 23) 06:46 07:55 (MT 23) 17:43	06:01 18:15	71 08:09 (MT 20) 19:48 06:57 (MT 20) 06:10	32 08:36 (MT 20) 20:20 08:07 (MT 20) 05:34	05:26 20:39
24	07:21 17:05	34 08:29 (MT 23) 06:45 07:54 (MT 23) 17:44	05:59 18:16	72 08:09 (MT 20) 19:49 06:56 (MT 20) 06:08	27 08:34 (MT 20) 20:21 08:10 (MT 20) 05:34	05:26 20:40
25	07:20 17:06	36 08:30 (MT 23) 06:43 07:53 (MT 23) 17:45	05:57 18:17	73 08:09 (MT 20) 19:50 06:55 (MT 20) 06:07	19 08:29 (MT 20) 20:22 08:18 (MT 20) 05:33	05:26 20:40
26	07:20 17:07	37 08:30 (MT 23) 06:42 07:53 (MT 23) 17:46	05:55 18:19	74 08:09 (MT 20) 19:52 06:55 (MT 20) 06:05	4 08:22 (MT 20) 20:23 08:22 (MT 20) 05:32	05:27 20:40
27	07:19 17:08	38 08:31 (MT 23) 06:40 07:52 (MT 23) 17:47	05:54 18:20	74 08:09 (MT 20) 19:53 06:54 (MT 20) 06:04	05:31 20:24	05:27 20:40
28	07:18 17:10	40 08:32 (MT 23) 06:39 07:53 (MT 23) 17:49	05:52 18:21	74 08:08 (MT 20) 19:54 06:54 (MT 20) 06:02	05:31 20:25	05:27 20:40
29	07:17 17:11	40 08:33 (MT 23) 06:39 07:53 (MT 23) 17:49	05:52 18:21	74 08:08 (MT 20) 19:55 06:54 (MT 20) 06:01	05:31 20:25	05:27 20:40
30	07:16 17:12	41 08:34 (MT 23) 06:39 07:53 (MT 23) 17:49	05:52 18:21	74 08:08 (MT 20) 19:55 06:54 (MT 20) 06:01	05:31 20:25	05:27 20:40
31	07:15 17:13	41 08:34 (MT 23) 06:39 07:53 (MT 23) 17:49	05:52 18:21	74 08:08 (MT 20) 19:55 06:54 (MT 20) 06:01	05:31 20:25	05:27 20:40
Potential sun hours	295	296	369	400	451	455
Total, worst case	554	680	1519	1360		
Sun reduction	0,44	0,46	0,44	0,48		
Oper. time red.	0,70	0,70	0,70	0,70		
Wind dir. red.	0,67	0,67	0,63	0,63		
Total reduction	0,21	0,22	0,20	0,21		
Total, real	115	146	297	289		

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: R106 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (61)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	20:40	05:53	20:20	06:25	07:52 (MT 20)	06:56	07:51 (MT 20)	06:32	07:24 (MT 23)	07:08	
					19:36	08:56 (MT 20)	18:44	08:41 (MT 20)	16:56	08:04 (MT 23)	16:31	
2	05:29	20:40	05:54	20:19	06:26	07:51 (MT 20)	06:58	07:52 (MT 20)	06:33	07:23 (MT 23)	07:09	
					19:34	08:56 (MT 20)	18:42	08:39 (MT 20)	16:55	08:04 (MT 23)	16:31	
3	05:30	20:39	05:55	20:18	06:27	07:50 (MT 20)	06:59	07:54 (MT 20)	06:34	07:22 (MT 23)	07:10	
					19:32	08:57 (MT 20)	18:41	08:37 (MT 20)	16:54	08:04 (MT 23)	16:30	
4	05:30	20:39	05:56	20:17	06:28	07:49 (MT 20)	07:00	07:56 (MT 20)	06:36	07:23 (MT 23)	07:11	
					19:31	08:57 (MT 20)	18:39	08:34 (MT 20)	16:52	08:05 (MT 23)	16:30	
5	05:31	20:39	05:57	20:15	06:29	07:48 (MT 20)	07:01	07:58 (MT 20)	06:37	07:22 (MT 23)	07:12	
					19:29	08:58 (MT 20)	18:37	08:30 (MT 20)	16:51	08:05 (MT 23)	16:30	
6	05:32	20:39	05:58	20:14	06:30	07:47 (MT 20)	07:02	08:02 (MT 20)	06:38	07:22 (MT 23)	07:13	
					19:27	08:58 (MT 20)	18:36	08:26 (MT 20)	16:50	08:05 (MT 23)	16:30	
7	05:32	20:38	05:59	20:13	06:31	07:47 (MT 20)	07:03	08:08 (MT 20)	06:39	07:23 (MT 23)	07:14	
					19:26	08:58 (MT 20)	18:34	08:18 (MT 20)	16:49	08:06 (MT 23)	16:30	
8	05:33	20:38	06:00	20:12	06:33	07:46 (MT 20)	07:04	07:23 (MT 20)	06:40	07:23 (MT 23)	07:15	
					19:24	08:58 (MT 20)	18:32		16:48	08:06 (MT 23)	16:30	
9	05:33	20:38	06:02	20:10	06:34	07:45 (MT 20)	07:05		06:42	07:22 (MT 23)	07:16	
					19:22	08:58 (MT 20)	18:31		16:47	08:06 (MT 23)	16:30	
10	05:34	20:37	06:03	20:09	06:35	07:45 (MT 20)	07:06		06:43	07:23 (MT 23)	07:16	
					19:21	08:59 (MT 20)	18:29		16:46	08:06 (MT 23)	16:30	
11	05:35	20:37	06:04	20:08	06:36	07:44 (MT 20)	07:07		06:44	07:23 (MT 23)	07:17	
					19:19	08:59 (MT 20)	18:27		16:45	08:06 (MT 23)	16:30	
12	05:36	20:36	06:05	20:06	06:37	07:44 (MT 20)	07:08		06:45	07:24 (MT 23)	07:18	
					19:17	08:58 (MT 20)	18:26		16:44	08:05 (MT 23)	16:30	
13	05:36	20:36	06:06	20:05	06:38	07:44 (MT 20)	07:10		06:47	07:25 (MT 23)	07:19	
					19:15	08:58 (MT 20)	18:24		16:43	08:06 (MT 23)	16:30	
14	05:37	20:35	06:07	20:04	06:39	07:43 (MT 20)	07:11		06:48	07:25 (MT 23)	07:20	
					19:14	08:58 (MT 20)	18:22		16:42	08:05 (MT 23)	16:30	
15	05:38	20:35	06:08	20:02	06:40	07:43 (MT 20)	07:12		06:49	07:25 (MT 23)	07:21	
					19:12	08:58 (MT 20)	18:21		16:41	08:05 (MT 23)	16:30	
16	05:39	20:34	06:09	20:01	06:41	07:43 (MT 20)	07:13		06:50	07:26 (MT 23)	07:21	
					19:10	08:57 (MT 20)	18:19		16:40	08:04 (MT 23)	16:30	
17	05:40	20:33	06:10	19:59	06:42	07:43 (MT 20)	07:14		06:51	07:27 (MT 23)	07:22	
					19:08	08:57 (MT 20)	18:18		16:39	08:04 (MT 23)	16:31	
18	05:40	20:33	06:11	19:58	06:43	07:43 (MT 20)	07:15		06:53	07:28 (MT 23)	07:23	
					19:07	08:56 (MT 20)	18:16		16:38	08:04 (MT 23)	16:31	
19	05:41	20:32	06:12	19:56	06:44	07:43 (MT 20)	07:16		06:54	07:29 (MT 23)	07:23	
					19:05	08:56 (MT 20)	18:15		16:37	08:03 (MT 23)	16:31	
20	05:42	20:31	06:13	19:55	06:45	08:13 (MT 20)	07:18		06:55	07:30 (MT 23)	07:24	
					19:03	08:40 (MT 20)	18:13		16:37	08:03 (MT 23)	16:32	
21	05:43	20:31	06:14	19:53	06:46	08:10 (MT 20)	07:19		06:56	07:31 (MT 23)	07:24	
					19:01	08:54 (MT 20)	18:12		16:36	08:02 (MT 23)	16:32	
22	05:44	20:30	06:15	19:52	06:47	08:07 (MT 20)	07:20		06:57	07:32 (MT 23)	07:25	
					19:00	08:45 (MT 20)	18:10		16:35	08:01 (MT 23)	16:33	
23	05:45	20:29	06:16	19:50	06:48	08:05 (MT 20)	07:21	08:36 (MT 23)	06:59	07:33 (MT 23)	07:25	
					18:58	08:47 (MT 20)	18:09	08:51 (MT 23)	16:35	08:00 (MT 23)	16:33	
24	05:46	20:28	06:17	19:49	06:49	08:03 (MT 20)	07:22	08:34 (MT 23)	07:00	07:36 (MT 23)	07:26	
					18:56	08:47 (MT 20)	18:07	08:55 (MT 23)	16:34	08:00 (MT 23)	16:34	
25	05:47	20:27	06:18	19:47	06:50	08:01 (MT 20)	06:23	07:31 (MT 23)	07:01	07:37 (MT 23)	07:26	
					18:54	08:49 (MT 20)	17:06	07:57 (MT 23)	16:34	07:59 (MT 23)	16:34	
26	05:48	20:26	06:19	19:46	06:51	07:59 (MT 20)	06:25	07:29 (MT 23)	07:02	07:39 (MT 23)	07:27	
					18:53	08:50 (MT 20)	17:04	07:58 (MT 23)	16:33	07:57 (MT 23)	16:35	
27	05:49	20:25	06:20	19:44	06:52	07:58 (MT 20)	06:26	07:28 (MT 23)	07:03	07:41 (MT 23)	07:27	
					18:51	08:51 (MT 20)	17:03	07:59 (MT 23)	16:33	07:55 (MT 23)	16:36	
28	05:49	20:24	06:21	19:42	06:53	07:56 (MT 20)	06:27	07:27 (MT 23)	07:04	07:44 (MT 23)	07:27	
					18:49	08:52 (MT 20)	17:01	08:01 (MT 23)	16:32	07:53 (MT 23)	16:36	
29	05:50	20:23	06:22	19:41	06:54	07:55 (MT 20)	06:28	07:26 (MT 23)	07:06		07:28	
					18:47	08:53 (MT 20)	17:00	08:02 (MT 23)	16:32		16:37	
30	05:51	20:22	06:23	19:39	06:55	07:54 (MT 20)	06:29	07:25 (MT 23)	07:07		07:28	
					18:46	08:54 (MT 20)	16:59	08:02 (MT 23)	16:31		16:38	
31	05:52	20:21	06:24	19:37	06:56	07:53 (MT 20)	06:31	07:24 (MT 23)			07:28	
					18:45	08:55 (MT 20)	16:57	08:03 (MT 23)			16:39	
Potential sun hours	462	429			375		344		296		285	
Total, worst case			602		2074		512		981			
Sun reduction			0,67		0,58		0,44		0,41			
Oper. time red.			0,70		0,70		0,70		0,70			
Wind dir. red.			0,63		0,63		0,65		0,67			
Total reduction			0,30		0,26		0,20		0,19			
Total, real			178		532		102		187			

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: R107 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (62)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15 37	07:46 (MT 23) 08:23 (MT 23) 17:50	06:37 19:25 71	07:39 (MT 20) 08:50 (MT 20) 19:58	05:58 24 08:16 (MT 20) 20:29
2	07:28 16:41	07:13 17:16 37	07:46 (MT 23) 08:23 (MT 23) 17:51	06:36 19:26 71	07:38 (MT 20) 08:49 (MT 20) 19:59	05:57 17 08:13 (MT 20) 20:29
3	07:29 16:41	07:12 17:17 39	07:44 (MT 23) 08:23 (MT 23) 17:52	06:34 19:27 71	07:39 (MT 20) 08:50 (MT 20) 20:00	05:56 20:30
4	07:29 16:42	07:11 17:19 40	07:44 (MT 23) 08:24 (MT 23) 17:53	06:32 19:28 71	07:38 (MT 20) 08:49 (MT 20) 20:01	05:54 20:31
5	07:29 16:43	07:10 17:20 41	07:44 (MT 23) 08:25 (MT 23) 17:55	06:31 19:30 72	07:37 (MT 20) 08:49 (MT 20) 20:02	05:53 20:32
6	07:29 16:44	07:09 17:21 41	07:44 (MT 23) 08:25 (MT 23) 17:56	06:29 19:31 72	07:37 (MT 20) 08:49 (MT 20) 20:04	05:52 20:32
7	07:28 16:45	07:08 17:22 42	07:44 (MT 23) 08:26 (MT 23) 17:57	06:28 19:32 72	07:36 (MT 20) 08:48 (MT 20) 20:05	05:51 20:33
8	07:28 16:46	07:07 17:24 42	07:44 (MT 23) 08:26 (MT 23) 17:58	06:26 19:33 71	07:36 (MT 20) 08:47 (MT 20) 20:06	05:49 20:33
9	07:28 16:47	07:05 17:25 43	07:43 (MT 23) 08:26 (MT 23) 17:59	06:24 19:34 71	07:36 (MT 20) 08:47 (MT 20) 20:07	05:48 20:34
10	07:28 16:48	07:04 17:26 42	07:44 (MT 23) 08:26 (MT 23) 18:00	06:23 19:35 70	07:36 (MT 20) 08:46 (MT 20) 20:08	05:47 20:35
11	07:28 16:49	07:03 17:28 42	07:44 (MT 23) 08:26 (MT 23) 18:02	06:21 19:36 70	07:35 (MT 20) 08:45 (MT 20) 20:09	05:46 20:35
12	07:27 16:50	07:02 17:29 42	07:43 (MT 23) 08:25 (MT 23) 18:03	06:19 19:37 69	07:36 (MT 20) 08:45 (MT 20) 20:10	05:45 20:36
13	07:27 16:52	07:00 17:30 42	07:44 (MT 23) 08:26 (MT 23) 18:04	06:18 19:38 69	07:35 (MT 20) 08:44 (MT 20) 20:11	05:44 20:36
14	07:27 16:53	06:59 17:31 40	07:45 (MT 23) 08:25 (MT 23) 18:05	06:16 19:39 68	07:35 (MT 20) 08:43 (MT 20) 20:12	05:43 20:37
15	07:26 16:54	06:58 17:33 40	07:44 (MT 23) 08:24 (MT 23) 18:06	06:14 19:41 66	07:36 (MT 20) 08:42 (MT 20) 20:13	05:42 20:37
16	07:26 16:55	06:56 17:34 39	07:45 (MT 23) 08:24 (MT 23) 18:07	06:13 19:42 65	07:36 (MT 20) 08:41 (MT 20) 20:14	05:41 20:38
17	07:25 16:56	06:55 17:35 38	07:46 (MT 23) 08:24 (MT 23) 18:08	06:11 19:43 63	07:37 (MT 20) 08:40 (MT 20) 20:15	05:40 20:38
18	07:25 16:57	06:54 17:36 35	07:47 (MT 23) 08:22 (MT 23) 18:10	06:09 19:44 63	07:37 (MT 20) 08:39 (MT 20) 20:16	05:39 20:38
19	07:24 16:58	06:52 17:38 34	07:48 (MT 23) 08:22 (MT 23) 18:11	06:07 19:45 61	07:37 (MT 20) 08:38 (MT 20) 20:17	05:38 20:39
20	07:24 17:00	06:51 17:39 32	07:48 (MT 23) 08:20 (MT 23) 18:12	06:06 19:46 60	07:37 (MT 20) 08:37 (MT 20) 20:18	05:37 20:39
21	07:23 17:01	06:49 17:40 29	07:50 (MT 23) 08:19 (MT 23) 18:13	06:04 19:47 57	06:13 08:36 (MT 20) 20:19	05:36 20:39
22	07:23 17:02	06:48 17:41 25	07:51 (MT 23) 08:16 (MT 23) 18:14	06:02 19:48 55	06:11 08:34 (MT 20) 20:20	05:35 20:39
23	07:22 17:03	06:46 08:05 (MT 23) 17:43	07:54 (MT 23) 08:14 (MT 23) 18:15	06:10 19:49 53	06:10 08:33 (MT 20) 20:21	05:34 20:39
24	07:21 17:05	06:45 08:09 (MT 23) 17:44	07:57 (MT 23) 08:10 (MT 23) 18:16	06:08 19:50 51	06:08 08:31 (MT 20) 20:22	05:34 20:40
25	07:20 17:06	06:43 08:12 (MT 23) 17:45	05:57 18:17	06:07 19:52 48	06:07 08:30 (MT 20) 20:23	05:33 20:40
26	07:20 17:07	06:42 07:51 (MT 23) 17:46	05:55 18:19	06:05 19:53 45	06:05 08:28 (MT 20) 20:24	05:32 20:40
27	07:19 17:08	06:40 07:50 (MT 23) 17:47	05:54 18:20	06:04 19:54 42	06:04 08:26 (MT 20) 20:24	05:31 20:40
28	07:18 17:10	06:39 07:49 (MT 23) 17:49	05:52 18:21	06:02 19:55 38	06:02 08:24 (MT 20) 20:25	05:31 20:40
29	07:17 17:11	06:39 08:19 (MT 23) 17:49	05:52 18:21	06:01 19:56 34	06:01 08:21 (MT 20) 20:26	05:30 20:40
30	07:16 17:12	06:39 08:20 (MT 23) 17:49	05:52 18:21	06:00 19:57 30	06:00 08:19 (MT 20) 20:27	05:30 20:40
31	07:15 17:13	06:39 08:22 (MT 23) 17:49	05:52 18:21	06:00 19:57 30	06:00 08:19 (MT 20) 20:27	05:30 20:40
Potential sun hours	295	296	369	400	451	455
Total, worst case	214	875	885	1819	41	
Sun reduction	0,44	0,46	0,44	0,48	0,47	
Oper. time red.	0,70	0,70	0,70	0,70	0,70	
Wind dir. red.	0,67	0,67	0,63	0,63	0,63	
Total reduction	0,21	0,21	0,19	0,21	0,21	
Total, real	44	188	172	384	8	

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: R107 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (62)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	07:34 (MT 20) 06:56 08:44 (MT 20) 18:44	06:32 16:56	07:13 (MT 23) 07:08 07:56 (MT 23) 16:31
2	05:29 20:40	05:54 20:19	06:26 19:34	07:34 (MT 20) 06:58 08:44 (MT 20) 18:42	06:33 16:55	07:13 (MT 23) 07:09 07:56 (MT 23) 16:31
3	05:30 20:39	05:55 20:18	06:27 19:32	07:33 (MT 20) 06:59 08:44 (MT 20) 18:41	06:34 16:54	07:13 (MT 23) 07:10 07:55 (MT 23) 16:30
4	05:30 20:39	05:56 20:17	06:28 19:31	07:33 (MT 20) 07:00 08:44 (MT 20) 18:39	06:36 16:52	07:14 (MT 23) 07:11 07:56 (MT 23) 16:30
5	05:31 20:39	05:57 20:15	06:29 19:29	07:32 (MT 20) 07:01 08:44 (MT 20) 18:37	06:37 16:51	07:14 (MT 23) 07:12 07:55 (MT 23) 16:30
6	05:32 20:39	05:58 20:14	06:30 19:27	07:32 (MT 20) 07:02 08:44 (MT 20) 18:36	06:38 16:50	07:14 (MT 23) 07:13 07:55 (MT 23) 16:30
7	05:32 20:38	05:59 20:13	06:31 19:26	07:32 (MT 20) 07:03 08:44 (MT 20) 18:34	06:39 16:49	07:15 (MT 23) 07:14 07:55 (MT 23) 16:30
8	05:33 20:38	06:00 20:12	06:33 19:24	07:32 (MT 20) 07:04 08:43 (MT 20) 18:32	06:40 16:48	07:15 (MT 23) 07:15 07:54 (MT 23) 16:30
9	05:33 20:38	06:02 20:10	06:34 19:22	07:32 (MT 20) 07:05 08:43 (MT 20) 18:31	06:42 16:47	07:16 (MT 23) 07:16 07:53 (MT 23) 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:32 (MT 20) 07:06 08:43 (MT 20) 18:29	06:43 16:46	07:17 (MT 23) 07:16 07:53 (MT 23) 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:32 (MT 20) 07:07 08:42 (MT 20) 18:27	06:44 16:45	07:18 (MT 23) 07:17 07:52 (MT 23) 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:32 (MT 20) 07:08 08:41 (MT 20) 18:26	06:45 16:44	07:19 (MT 23) 07:18 07:51 (MT 23) 16:30
13	05:36 20:36	06:06 20:05	06:38 19:15	07:32 (MT 20) 07:10 08:41 (MT 20) 18:24	06:47 16:43	07:20 (MT 23) 07:19 07:51 (MT 23) 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	07:32 (MT 20) 07:11 08:40 (MT 20) 18:22	06:48 16:42	07:21 (MT 23) 07:20 07:50 (MT 23) 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	07:32 (MT 20) 07:12 08:39 (MT 20) 18:21	06:49 16:41	07:23 (MT 23) 07:21 07:48 (MT 23) 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	07:33 (MT 20) 07:13 08:38 (MT 20) 18:19	06:50 16:40	07:24 (MT 23) 07:21 07:47 (MT 23) 16:30
17	05:40 20:33	06:10 19:59	06:42 19:08	07:33 (MT 20) 07:14 08:37 (MT 20) 18:18	06:51 16:39	07:27 (MT 23) 07:22 07:46 (MT 23) 16:31
18	05:40 20:33	06:11 19:58	06:43 19:07	07:34 (MT 20) 07:15 08:35 (MT 20) 18:16	06:53 16:38	07:29 (MT 23) 07:23 07:43 (MT 23) 16:31
19	05:41 20:32	06:12 19:56	06:44 19:05	07:34 (MT 20) 07:16 08:34 (MT 20) 18:15	06:54 16:37	07:33 (MT 23) 07:23 07:39 (MT 23) 16:31
20	05:42 20:31	06:13 19:55	06:45 19:03	07:35 (MT 20) 07:18 08:33 (MT 20) 18:13	06:55 16:37	07:24 (MT 23) 07:24 08:48 (MT 23) 16:32
21	05:43 20:31	06:14 19:53	06:46 19:01	07:36 (MT 20) 07:19 08:31 (MT 20) 18:12	06:56 16:36	07:25 (MT 23) 07:24 08:50 (MT 23) 16:32
22	05:44 20:30	06:15 19:52	06:47 19:00	07:37 (MT 20) 07:20 08:29 (MT 20) 18:10	06:57 16:35	07:25 (MT 23) 07:25 08:19 (MT 23) 16:35
23	05:45 20:29	06:16 19:50	06:48 18:58	07:38 (MT 20) 07:21 08:27 (MT 20) 18:09	06:59 16:35	07:25 (MT 23) 07:25 08:51 (MT 23) 16:35
24	05:46 20:28	06:17 19:49	06:49 18:56	07:40 (MT 20) 07:22 08:25 (MT 20) 18:07	07:00 16:34	07:26 (MT 23) 07:26 08:17 (MT 23) 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	07:42 (MT 20) 06:23 08:22 (MT 20) 17:06	07:01 16:34	07:26 (MT 23) 07:26 07:16 (MT 23) 16:34
26	05:48 20:26	06:19 19:46	06:51 18:53	07:45 (MT 20) 06:25 08:20 (MT 20) 17:04	07:02 16:33	07:27 (MT 23) 07:27 07:15 (MT 23) 16:33
27	05:49 20:25	06:20 19:44	06:52 18:51	07:48 (MT 20) 06:26 08:17 (MT 20) 17:03	07:03 16:33	07:27 (MT 23) 07:27 07:14 (MT 23) 16:33
28	05:49 20:24	06:21 19:42	06:53 18:49	07:52 (MT 20) 06:27 08:12 (MT 20) 17:01	07:04 16:32	07:27 (MT 23) 07:27 07:55 (MT 23) 16:32
29	05:50 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:06 16:32	07:28 (MT 23) 07:28 07:14 (MT 23) 16:32
30	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	07:28 (MT 23) 07:28 07:13 (MT 23) 16:31
31	05:52 20:21	06:24 19:37	06:56 18:44	06:31 16:57	07:08 16:30	07:28 (MT 23) 07:28 07:13 (MT 23) 16:30
Potential sun hours	462	429	375	344	296	285
Total, worst case		1102	1687		617	
Sun reduction		0,67	0,58		0,44	
Oper. time red.		0,70	0,70		0,70	
Wind dir. red.		0,63	0,63		0,67	
Total reduction		0,29	0,26		0,19	
Total, real		324	431		117	

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: R109 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (63)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28	07:14			06:37	07:10 (MT 23)	06:45	05:58			05:29	06:25 (MT 20)
	16:40	17:15			17:50	44 07:54 (MT 23)	19:25	19:58			20:29	77 07:42 (MT 20)
2	07:28	07:13			06:36	07:10 (MT 23)	06:44	05:57			05:28	06:26 (MT 20)
	16:41	17:16			17:51	45 07:55 (MT 23)	19:26	19:59			20:29	76 07:42 (MT 20)
3	07:29	07:12			06:34	07:09 (MT 23)	06:42	05:56			05:28	06:26 (MT 20)
	16:41	17:17			17:52	46 07:55 (MT 23)	19:27	20:00			20:30	77 07:43 (MT 20)
4	07:29	07:11			06:32	07:09 (MT 23)	06:40	05:54			05:27	06:25 (MT 20)
	16:42	17:19			17:53	47 07:56 (MT 23)	19:28	20:01			20:31	78 07:43 (MT 20)
5	07:29	07:10			06:31	07:08 (MT 23)	06:38	05:53		07:01 (MT 20)	05:27	06:26 (MT 20)
	16:43	17:20			17:55	48 07:56 (MT 23)	19:30	20:02	5	07:06 (MT 20)	20:32	77 07:43 (MT 20)
6	07:28	07:09			06:29	07:08 (MT 23)	06:37	05:52		06:53 (MT 20)	05:26	06:26 (MT 20)
	16:44	17:21			17:56	47 07:55 (MT 23)	19:31	20:04	21	07:14 (MT 20)	20:32	78 07:44 (MT 20)
7	07:28	07:08			06:28	07:08 (MT 23)	06:35	05:51		06:50 (MT 20)	05:26	06:25 (MT 20)
	16:45	17:22			17:57	48 07:56 (MT 23)	19:32	20:05	28	07:18 (MT 20)	20:33	79 07:44 (MT 20)
8	07:28	07:07			06:26	07:07 (MT 23)	06:33	05:49		06:46 (MT 20)	05:26	06:25 (MT 20)
	16:46	17:24			17:58	48 07:55 (MT 23)	19:33	20:06	34	07:20 (MT 20)	20:33	79 07:44 (MT 20)
9	07:28	07:05			06:24	07:07 (MT 23)	06:32	05:48		06:43 (MT 20)	05:26	06:26 (MT 20)
	16:47	17:25			17:59	47 07:54 (MT 23)	19:34	20:07	39	07:22 (MT 20)	20:34	79 07:45 (MT 20)
10	07:28	07:04			06:23	07:08 (MT 23)	06:30	05:47		06:41 (MT 20)	05:25	06:26 (MT 20)
	16:48	17:26			18:00	46 07:54 (MT 23)	19:35	20:08	43	07:24 (MT 20)	20:35	79 07:45 (MT 20)
11	07:28	07:03			06:21	07:07 (MT 23)	06:29	05:46		06:40 (MT 20)	05:25	06:26 (MT 20)
	16:49	17:28			18:02	46 07:53 (MT 23)	19:36	20:09	46	07:26 (MT 20)	20:35	79 07:45 (MT 20)
12	07:27	07:02			06:19	07:07 (MT 23)	06:27	05:45		06:38 (MT 20)	05:25	06:26 (MT 20)
	16:50	17:29			18:03	45 07:52 (MT 23)	19:37	20:10	50	07:28 (MT 20)	20:36	80 07:46 (MT 20)
13	07:27	07:00			06:18	07:08 (MT 23)	06:25	05:44		06:37 (MT 20)	05:25	06:26 (MT 20)
	16:52	17:30			18:04	44 07:52 (MT 23)	19:38	20:11	52	07:29 (MT 20)	20:36	80 07:46 (MT 20)
14	07:27	06:59			06:16	07:08 (MT 23)	06:24	05:43		06:35 (MT 20)	05:25	06:27 (MT 20)
	16:53	17:31			18:05	42 07:50 (MT 23)	19:39	20:12	55	07:30 (MT 20)	20:37	79 07:46 (MT 20)
15	07:26	06:58			06:14	07:09 (MT 23)	06:22	05:42		06:34 (MT 20)	05:25	06:27 (MT 20)
	16:54	17:33			18:06	40 07:49 (MT 23)	19:41	20:13	57	07:31 (MT 20)	20:37	80 07:47 (MT 20)
16	07:26	06:56			06:13	07:09 (MT 23)	06:20	05:41		06:33 (MT 20)	05:25	06:27 (MT 20)
	16:55	17:34			18:07	38 07:47 (MT 23)	19:42	20:14	59	07:32 (MT 20)	20:38	80 07:47 (MT 20)
17	07:25	06:55			06:11	07:11 (MT 23)	06:19	05:40		06:32 (MT 20)	05:25	06:27 (MT 20)
	16:56	17:35			18:08	35 07:46 (MT 23)	19:43	20:15	61	07:33 (MT 20)	20:38	80 07:47 (MT 20)
18	07:25	06:54			06:09	07:12 (MT 23)	06:17	05:39		06:31 (MT 20)	05:25	06:27 (MT 20)
	16:57	17:36			18:10	32 07:44 (MT 23)	19:44	20:16	63	07:34 (MT 20)	20:38	80 07:47 (MT 20)
19	07:24	06:52			06:07	07:13 (MT 23)	06:16	05:38		06:31 (MT 20)	05:25	06:27 (MT 20)
	16:58	17:38			18:11	29 07:42 (MT 23)	19:45	20:17	65	07:36 (MT 20)	20:39	80 07:47 (MT 20)
20	07:24	06:51		07:27 (MT 23)	06:06	07:16 (MT 23)	06:14	05:37		06:30 (MT 20)	05:25	06:27 (MT 20)
	17:00	17:39	14	07:41 (MT 23)	18:12	24 07:40 (MT 23)	19:46	20:18	66	07:36 (MT 20)	20:39	80 07:47 (MT 20)
21	07:23	06:49		07:23 (MT 23)	06:04	07:18 (MT 23)	06:13	05:36		06:29 (MT 20)	05:25	06:27 (MT 20)
	17:01	17:40	22	07:45 (MT 23)	18:13	18 07:36 (MT 23)	19:47	20:19	68	07:37 (MT 20)	20:39	80 07:47 (MT 20)
22	07:23	06:48		07:20 (MT 23)	06:02	07:23 (MT 23)	06:11	05:35		06:29 (MT 20)	05:26	06:27 (MT 20)
	17:02	17:41	27	07:47 (MT 23)	18:14	7 07:30 (MT 23)	19:48	20:20	68	07:37 (MT 20)	20:39	80 07:47 (MT 20)
23	07:22	06:46		07:19 (MT 23)	06:01		06:10	05:34		06:28 (MT 20)	05:26	06:28 (MT 20)
	17:03	17:43	30	07:49 (MT 23)	18:15		19:49	20:21	69	07:37 (MT 20)	20:39	80 07:48 (MT 20)
24	07:21	06:45		07:16 (MT 23)	05:59		06:08	05:34		06:28 (MT 20)	05:26	06:28 (MT 20)
	17:05	17:44	34	07:50 (MT 23)	18:16		19:50	20:22	71	07:39 (MT 20)	20:40	80 07:48 (MT 20)
25	07:20	06:43		07:15 (MT 23)	05:57		06:07	05:33		06:27 (MT 20)	05:26	06:28 (MT 20)
	17:06	17:45	37	07:52 (MT 23)	18:17		19:52	20:23	72	07:39 (MT 20)	20:40	80 07:48 (MT 20)
26	07:20	06:42		07:14 (MT 23)	05:55		06:05	05:32		06:27 (MT 20)	05:27	06:29 (MT 20)
	17:07	17:46	39	07:53 (MT 23)	18:19		19:53	20:24	72	07:39 (MT 20)	20:40	80 07:49 (MT 20)
27	07:19	06:40		07:13 (MT 23)	05:54		06:04	05:31		06:27 (MT 20)	05:27	06:29 (MT 20)
	17:08	17:47	41	07:54 (MT 23)	18:20		19:54	20:24	73	07:40 (MT 20)	20:40	80 07:49 (MT 20)
28	07:18	06:39		07:12 (MT 23)	05:52		06:02	05:31		06:26 (MT 20)	05:27	06:29 (MT 20)
	17:10	17:49	42	07:54 (MT 23)	18:21		19:55	20:25	74	07:40 (MT 20)	20:40	79 07:48 (MT 20)
29	07:17				06:50		06:01	05:30		06:26 (MT 20)	05:28	06:29 (MT 20)
	17:11				19:22		19:56	20:26	75	07:41 (MT 20)	20:40	80 07:49 (MT 20)
30	07:16				06:49		06:00	05:30		06:26 (MT 20)	05:28	06:29 (MT 20)
	17:12				19:23		19:57	20:27	75	07:41 (MT 20)	20:40	80 07:49 (MT 20)
31	07:15				06:47			05:29		06:26 (MT 20)		
	17:13				19:24		20:28	20:28	76	07:42 (MT 20)		
Potential sun hours	295	296			369		400	451		455		
Total, worst case			286			866		1537			2376	
Sun reduction			0,46			0,44		0,47			0,54	
Oper. time red.			0,70			0,70		0,70			0,70	
Wind dir. red.			0,64			0,64		0,56			0,56	
Total reduction			0,21			0,20		0,18			0,21	
Total, real			59			172		283			507	

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: R109 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (63)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	06:30 (MT 20)	05:53	06:49 (MT 20)	06:25	06:56	07:47 (MT 23)	06:32	07:08			
	20:40	80	07:50 (MT 20)	20:20	49	07:38 (MT 20)	19:36	18:44	44	08:31 (MT 23)	16:56	16:31
2	05:29	06:30 (MT 20)	05:54	06:51 (MT 20)	06:26	06:58	07:46 (MT 23)	06:33	07:09			
	20:40	79	07:49 (MT 20)	20:19	45	07:36 (MT 20)	19:34	18:42	46	08:32 (MT 23)	16:55	16:31
3	05:30	06:31 (MT 20)	05:55	06:53 (MT 20)	06:27	06:59	07:45 (MT 23)	06:34	07:10			
	20:39	79	07:50 (MT 20)	20:18	41	07:34 (MT 20)	19:32	18:41	47	08:32 (MT 23)	16:54	16:30
4	05:30	06:30 (MT 20)	05:56	06:55 (MT 20)	06:28	07:00	07:45 (MT 23)	06:36	07:11			
	20:39	79	07:49 (MT 20)	20:17	37	07:32 (MT 20)	19:31	18:39	47	08:32 (MT 23)	16:52	16:30
5	05:31	06:31 (MT 20)	05:57	06:57 (MT 20)	06:29	07:01	07:44 (MT 23)	06:37	07:12			
	20:39	79	07:50 (MT 20)	20:15	33	07:30 (MT 20)	19:29	18:37	48	08:32 (MT 23)	16:51	16:30
6	05:32	06:32 (MT 20)	05:58	07:00 (MT 20)	06:30	07:02	07:44 (MT 23)	06:38	07:13			
	20:39	78	07:50 (MT 20)	20:14	26	07:26 (MT 20)	19:27	18:36	47	08:31 (MT 23)	16:50	16:30
7	05:32	06:32 (MT 20)	05:59	07:05 (MT 20)	06:31	07:03	07:43 (MT 23)	06:39	07:14			
	20:38	78	07:50 (MT 20)	20:13	17	07:22 (MT 20)	19:26	18:34	48	08:31 (MT 23)	16:49	16:30
8	05:33	06:32 (MT 20)	06:00	06:32 (MT 20)	06:33	07:04	07:44 (MT 23)	06:40	07:15			
	20:38	78	07:50 (MT 20)	20:12		19:24	18:32	47	08:31 (MT 23)	16:48	16:30	
9	05:33	06:32 (MT 20)	06:02	06:32 (MT 20)	06:34	07:05	07:44 (MT 23)	06:42	07:16			
	20:38	77	07:49 (MT 20)	20:10		19:22	18:31	47	08:31 (MT 23)	16:47	16:30	
10	05:34	06:33 (MT 20)	06:03	06:33 (MT 20)	06:35	07:06	07:44 (MT 23)	06:43	07:16			
	20:37	77	07:50 (MT 20)	20:09		19:21	18:29	46	08:30 (MT 23)	16:46	16:30	
11	05:35	06:34 (MT 20)	06:04	06:34 (MT 20)	06:36	07:07	07:44 (MT 23)	06:44	07:17			
	20:37	76	07:50 (MT 20)	20:08		19:19	18:27	45	08:29 (MT 23)	16:45	16:30	
12	05:36	06:34 (MT 20)	06:05	06:34 (MT 20)	06:37	07:08	07:44 (MT 23)	06:45	07:18			
	20:36	76	07:50 (MT 20)	20:06		19:17	18:26	45	08:29 (MT 23)	16:44	16:30	
13	05:36	06:34 (MT 20)	06:06	06:34 (MT 20)	06:38	07:10	07:44 (MT 23)	06:47	07:19			
	20:36	75	07:49 (MT 20)	20:05		19:15	18:24	44	08:28 (MT 23)	16:43	16:30	
14	05:37	06:35 (MT 20)	06:07	06:35 (MT 20)	06:39	07:11	07:44 (MT 23)	06:48	07:20			
	20:35	74	07:49 (MT 20)	20:04		19:14	18:22	42	08:26 (MT 23)	16:42	16:30	
15	05:38	06:35 (MT 20)	06:08	06:35 (MT 20)	06:40	07:12	07:46 (MT 23)	06:49	07:21			
	20:35	75	07:50 (MT 20)	20:02		19:12	18:21	40	08:26 (MT 23)	16:41	16:30	
16	05:39	06:36 (MT 20)	06:09	06:36 (MT 20)	06:41	07:13	07:47 (MT 23)	06:50	07:21			
	20:34	74	07:50 (MT 20)	20:01		19:10	18:19	38	08:25 (MT 23)	16:40	16:30	
17	05:40	06:36 (MT 20)	06:10	06:36 (MT 20)	06:42	07:14	07:47 (MT 23)	06:51	07:22			
	20:33	73	07:49 (MT 20)	19:59		19:08	18:18	36	08:23 (MT 23)	16:39	16:31	
18	05:40	06:36 (MT 20)	06:11	06:36 (MT 20)	06:43	07:15	07:48 (MT 23)	06:53	07:23			
	20:33	72	07:48 (MT 20)	19:58		19:07	18:16	33	08:21 (MT 23)	16:38	16:31	
19	05:41	06:37 (MT 20)	06:12	06:37 (MT 20)	06:44	07:16	07:50 (MT 23)	06:54	07:23			
	20:32	71	07:48 (MT 20)	19:56		19:05	18:15	29	08:19 (MT 23)	16:37	16:31	
20	05:42	06:38 (MT 20)	06:13	06:38 (MT 20)	06:45	07:18	07:52 (MT 23)	06:55	07:24			
	20:31	70	07:48 (MT 20)	19:55		19:03	18:13	26	08:18 (MT 23)	16:37	16:32	
21	05:43	06:39 (MT 20)	06:14	06:39 (MT 20)	06:46	07:19	07:55 (MT 23)	06:56	07:24			
	20:31	69	07:48 (MT 20)	19:53		19:01	18:12	19	08:14 (MT 23)	16:36	16:32	
22	05:44	06:40 (MT 20)	06:15	06:40 (MT 20)	06:47	07:20	07:59 (MT 23)	06:57	07:25			
	20:30	67	07:47 (MT 20)	19:52		19:00	18:10	11	08:10 (MT 23)	16:35	16:33	
23	05:45	06:40 (MT 20)	06:16	06:40 (MT 20)	06:48	07:21	08:00 (MT 23)	06:59	07:25			
	20:29	67	07:47 (MT 20)	19:50		18:58	22	08:22 (MT 23)	18:09	16:35	16:33	
24	05:46	06:40 (MT 20)	06:17	06:40 (MT 20)	06:49	07:22	07:57 (MT 23)	07:00	07:26			
	20:28	65	07:45 (MT 20)	19:49		18:56	27	08:24 (MT 23)	18:07	16:34	16:34	
25	05:47	06:41 (MT 20)	06:18	06:41 (MT 20)	06:50	07:23	07:55 (MT 23)	06:23	07:01	07:26		
	20:27	64	07:45 (MT 20)	19:47		18:54	31	08:26 (MT 23)	17:06	16:34	16:34	
26	05:48	06:42 (MT 20)	06:19	06:42 (MT 20)	06:51	07:24	07:54 (MT 23)	06:25	07:02	07:27		
	20:26	62	07:44 (MT 20)	19:46		18:53	34	08:28 (MT 23)	17:04	16:33	16:35	
27	05:49	06:43 (MT 20)	06:20	06:43 (MT 20)	06:52	07:25	07:52 (MT 23)	06:26	07:03	07:27		
	20:25	60	07:43 (MT 20)	19:44		18:51	37	08:29 (MT 23)	17:03	16:33	16:36	
28	05:49	06:44 (MT 20)	06:21	06:44 (MT 20)	06:53	07:26	07:51 (MT 23)	06:27	07:04	07:27		
	20:24	59	07:43 (MT 20)	19:42		18:49	39	08:30 (MT 23)	17:01	16:32	16:36	
29	05:50	06:45 (MT 20)	06:22	06:45 (MT 20)	06:54	07:27	07:49 (MT 23)	06:28	07:06	07:28		
	20:23	57	07:42 (MT 20)	19:41		18:47	42	08:31 (MT 23)	17:00	16:32	16:37	
30	05:51	06:47 (MT 20)	06:23	06:47 (MT 20)	06:55	07:28	07:48 (MT 23)	06:29	07:07	07:28		
	20:22	53	07:40 (MT 20)	19:39		18:46	43	08:31 (MT 23)	16:59	16:31	16:38	
31	05:52	06:48 (MT 20)	06:24	06:48 (MT 20)	06:24	06:31	06:31	06:31	06:31	07:28		
	20:21	51	07:39 (MT 20)	19:37		16:57				16:39	16:39	
Potential sun hours	462		429		375		344		296		285	
Total, worst case	2194		248		291		875					
Sun reduction	0,61		0,67		0,58		0,44					
Oper. time red.	0,70		0,70		0,70		0,70					
Wind dir. red.	0,56		0,56		0,64		0,64					
Total reduction	0,24		0,26		0,26		0,20					
Total, real	526		65		76		172					

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: R113 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (64)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28	07:14	16:09 (MT 11)	06:37	06:45	05:58
	16:40	17:15	16:21 (MT 11)	17:50	19:25	19:58
2	07:28	07:13	16:13 (MT 11)	06:36	06:44	05:57
	16:41	17:16	16:18 (MT 11)	17:51	19:26	19:59
3	07:28	07:12		06:34	06:42	05:56
	16:42	17:17		17:52	19:27	20:00
4	07:28	07:11		06:32	06:40	05:54
	16:42	17:19		17:53	19:28	20:01
5	07:28	07:10		06:31	06:39	05:53
	16:43	17:20		17:55	19:30	20:02
6	07:28	16:04 (MT 11)	07:09	06:29	06:37	05:52
	16:44	16:11 (MT 11)	17:21	17:56	19:31	20:03
7	07:28	16:03 (MT 11)	07:08	06:28	06:35	05:51
	16:45	16:13 (MT 11)	17:23	17:57	19:32	20:05
8	07:28	16:02 (MT 11)	07:07	06:26	06:34	05:49
	16:46	16:14 (MT 11)	17:24	17:58	19:33	20:06
9	07:28	16:02 (MT 11)	07:05	06:24	06:32	05:48
	16:47	16:16 (MT 11)	17:25	17:59	19:34	20:07
10	07:28	16:01 (MT 11)	07:04	06:23	06:30	05:47
	16:48	16:17 (MT 11)	17:26	18:00	19:35	20:08
11	07:28	16:01 (MT 11)	07:03	06:21	06:29	05:46
	16:49	16:19 (MT 11)	17:28	18:02	19:36	20:09
12	07:27	16:01 (MT 11)	07:02	06:19	06:27	05:45
	16:51	16:19 (MT 11)	17:29	18:03	19:37	20:10
13	07:27	16:01 (MT 11)	07:00	06:18	06:25	05:44
	16:52	16:21 (MT 11)	17:30	18:04	19:38	20:11
14	07:27	16:00 (MT 11)	06:59	06:16	06:24	05:43
	16:53	16:21 (MT 11)	17:31	18:05	19:39	20:12
15	07:26	16:00 (MT 11)	06:58	06:14	06:22	05:42
	16:54	16:22 (MT 11)	17:33	18:06	19:41	20:13
16	07:26	16:00 (MT 11)	06:56	06:13	06:21	05:41
	16:55	16:22 (MT 11)	17:34	18:07	19:42	20:14
17	07:25	16:00 (MT 11)	06:55	06:11	06:19	05:40
	16:56	16:24 (MT 11)	17:35	18:08	19:43	20:15
18	07:25	16:00 (MT 11)	06:54	06:09	06:17	05:39
	16:57	16:24 (MT 11)	17:36	18:10	19:44	20:16
19	07:24	16:01 (MT 11)	06:52	06:07	06:16	05:38
	16:59	16:25 (MT 11)	17:38	18:11	19:45	20:17
20	07:24	16:01 (MT 11)	06:51	06:06	06:14	05:37
	17:00	16:25 (MT 11)	17:39	18:12	19:46	20:18
21	07:23	16:00 (MT 11)	06:49	06:04	06:13	05:36
	17:01	16:25 (MT 11)	17:40	18:13	19:47	20:19
22	07:22	16:00 (MT 11)	06:48	06:02	06:11	05:35
	17:02	16:25 (MT 11)	17:41	18:14	19:48	20:20
23	07:22	16:02 (MT 11)	06:46	06:01	06:10	05:34
	17:03	16:26 (MT 11)	17:43	18:15	19:49	20:21
24	07:21	16:02 (MT 11)	06:45	05:59	06:08	05:34
	17:05	16:26 (MT 11)	17:44	18:16	19:50	20:22
25	07:20	16:02 (MT 11)	06:43	05:57	06:07	05:33
	17:06	16:26 (MT 11)	17:45	18:17	19:51	20:23
26	07:19	16:03 (MT 11)	06:42	05:55	06:05	05:32
	17:07	16:26 (MT 11)	17:46	18:18	19:53	20:23
27	07:19	16:03 (MT 11)	06:40	05:54	06:04	05:32
	17:08	16:26 (MT 11)	17:47	18:20	19:54	20:24
28	07:18	16:04 (MT 11)	06:39	05:52	06:03	05:31
	17:10	16:25 (MT 11)	17:49	18:21	19:55	20:25
29	07:17	16:05 (MT 11)		06:50	06:01	05:30
	17:11	16:25 (MT 11)		19:22	19:56	20:26
30	07:16	16:07 (MT 11)		06:49	06:00	05:30
	17:12	16:25 (MT 11)		19:23	19:57	20:27
31	07:15	16:08 (MT 11)		06:47		05:29
	17:14	16:24 (MT 11)		19:24		20:28
Potential sun hours	295	296	369	400	450	455
Total, worst case	519					17
Sun reduction	0,44					0,46
Oper. time red.	0,70					0,70
Wind dir. red.	0,56					0,56
Total reduction	0,17					0,18
Total, real	89					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: R113 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (64)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December	
1	05:29 20:40	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31	15:43 (MT 11) 16:01 (MT 11)
2	05:29 20:39	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31	15:44 (MT 11) 16:00 (MT 11)
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30	15:46 (MT 11) 16:00 (MT 11)
4	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:11 16:30	15:47 (MT 11) 15:59 (MT 11)
5	05:31 20:39	05:58 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30	15:48 (MT 11) 15:58 (MT 11)
6	05:32 20:39	05:59 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:13 16:30	15:50 (MT 11) 15:57 (MT 11)
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:14 16:30	15:53 (MT 11) 15:55 (MT 11)
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30	07:15
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:15 16:30	15:43 (MT 11) 15:50 (MT 11)
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30	15:40 (MT 11) 15:52 (MT 11)
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30	15:39 (MT 11) 15:55 (MT 11)
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30	15:38 (MT 11) 15:56 (MT 11)
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:46 16:43	07:19 16:30	15:37 (MT 11) 15:57 (MT 11)
14	05:37 20:35	06:07 20:03	06:39 19:14	07:11 18:22	06:48 16:42	07:20 16:30	15:37 (MT 11) 15:58 (MT 11)
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30	15:36 (MT 11) 15:59 (MT 11)
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31	15:36 (MT 11) 15:59 (MT 11)
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31	15:36 (MT 11) 16:00 (MT 11)
18	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	07:22 16:31	15:36 (MT 11) 16:00 (MT 11)
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32	15:36 (MT 11) 16:00 (MT 11)
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32	15:35 (MT 11) 16:00 (MT 11)
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:32	15:36 (MT 11) 16:01 (MT 11)
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:25 16:33	15:37 (MT 11) 16:01 (MT 11)
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	07:25 16:33	15:37 (MT 11) 16:01 (MT 11)
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34	15:37 (MT 11) 16:01 (MT 11)
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35	15:38 (MT 11) 16:02 (MT 11)
26	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:04	07:02 16:33	07:27 16:35	15:39 (MT 11) 16:02 (MT 11)
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36	15:39 (MT 11) 16:01 (MT 11)
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37	15:40 (MT 11) 16:01 (MT 11)
29	05:51 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:32	07:28 16:37	15:41 (MT 11) 16:01 (MT 11)
30	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:28 16:38	15:42 (MT 11) 16:00 (MT 11)
31	05:53 20:21	06:24 19:37	06:56 16:58	06:31 16:58		07:28 16:39	07:28 16:39
Potential sun hours	461	429	375	344	296	285	
Total, worst case					462		79
Sun reduction					0,41		0,36
Oper. time red.					0,70		0,70
Wind dir. red.					0,56		0,56
Total reduction					0,16		0,14
Total, real					73		11

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: R114 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (65)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

January		February		March		April		May		June	
1	07:28	14:06 (MT 14)	07:14	14:26 (MT 14)	06:37	06:56 (80)	06:45	05:58	05:29		
	16:40	69	15:15 (MT 14)	17:15	53	15:19 (MT 14)	17:50	9	07:05 (80)	19:25	19:58
2	07:28	14:07 (MT 14)	07:13	14:27 (MT 14)	06:36	06:55 (80)	06:44	05:57	05:28		
	16:41	69	15:16 (MT 14)	17:16	51	15:18 (MT 14)	17:51	11	07:06 (80)	19:26	19:59
3	07:28	14:07 (MT 14)	07:12	14:29 (MT 14)	06:34	06:53 (80)	06:42	05:56	05:28		
	16:42	69	15:16 (MT 14)	17:17	48	15:17 (MT 14)	17:52	13	07:06 (80)	19:27	20:00
4	07:28	14:08 (MT 14)	07:11	14:31 (MT 14)	06:32	06:52 (80)	06:40	05:54	05:27		
	16:42	69	15:17 (MT 14)	17:19	45	15:16 (MT 14)	17:53	15	07:07 (80)	19:28	20:01
5	07:28	14:08 (MT 14)	07:10	14:33 (MT 14)	06:31	06:50 (80)	06:38	05:53	05:27		
	16:43	69	15:17 (MT 14)	17:20	42	15:15 (MT 14)	17:55	16	07:06 (80)	19:29	20:02
6	07:28	14:09 (MT 14)	07:09	14:35 (MT 14)	06:29	06:49 (80)	06:37	05:52	05:27		
	16:44	69	15:18 (MT 14)	17:21	39	15:14 (MT 14)	17:56	16	07:05 (80)	19:31	20:03
7	07:28	14:09 (MT 14)	07:08	14:37 (MT 14)	06:28	06:50 (80)	06:35	05:51	05:26		
	16:45	69	15:18 (MT 14)	17:22	35	15:12 (MT 14)	17:57	14	07:04 (80)	19:32	20:04
8	07:28	14:09 (MT 14)	07:06	14:39 (MT 14)	06:26	06:51 (80)	06:33	05:49	05:26		
	16:46	69	15:18 (MT 14)	17:24	30	15:09 (MT 14)	17:58	11	07:02 (80)	19:33	20:06
9	07:28	14:10 (MT 14)	07:05	14:43 (MT 14)	06:24	06:53 (80)	06:32	05:48	05:26		
	16:47	69	15:19 (MT 14)	17:25	24	15:07 (MT 14)	17:59	6	06:59 (80)	19:34	20:07
10	07:28	14:10 (MT 14)	07:04	14:48 (MT 14)	06:23		06:30	05:47	05:26		
	16:48	69	15:19 (MT 14)	17:26	15	15:03 (MT 14)	18:00		19:35	20:08	20:34
11	07:28	14:11 (MT 14)	07:03		06:21		06:29	05:46	05:25		
	16:49	69	15:20 (MT 14)	17:28		18:02		19:36	20:09	20:35	
12	07:27	14:11 (MT 14)	07:02		06:19		06:27	05:45	05:25		
	16:51	69	15:20 (MT 14)	17:29		18:03		19:37	20:10	20:36	
13	07:27	14:12 (MT 14)	07:00		06:18		06:25	05:44	05:25		
	16:52	69	15:21 (MT 14)	17:30		18:04		19:38	20:11	20:36	
14	07:27	14:12 (MT 14)	06:59		06:16		06:24	05:43	05:25		
	16:53	68	15:20 (MT 14)	17:31		18:05		19:39	20:12	20:36	
15	07:26	14:13 (MT 14)	06:58		06:14		06:22	05:42	05:25		
	16:54	68	15:21 (MT 14)	17:33		18:06		19:40	20:13	20:37	
16	07:26	14:13 (MT 14)	06:56		06:13		06:20	05:41	05:25		
	16:55	68	15:21 (MT 14)	17:34		18:07		19:42	20:14	20:37	
17	07:25	14:14 (MT 14)	06:55		06:11		06:19	05:40	05:25		
	16:56	68	15:22 (MT 14)	17:35		18:08		19:43	20:15	20:38	
18	07:25	14:14 (MT 14)	06:54		06:09		06:17	05:39	05:25		
	16:57	68	15:22 (MT 14)	17:36		18:10		19:44	20:16	20:38	
19	07:24	14:15 (MT 14)	06:52		06:07		06:16	05:38	05:25		
	16:59	67	15:22 (MT 14)	17:38		18:11		19:45	20:17	20:38	
20	07:24	14:16 (MT 14)	06:51		06:06		06:14	05:37	05:25		
	17:00	66	15:22 (MT 14)	17:39		18:12		19:46	20:18	20:39	
21	07:23	14:16 (MT 14)	06:49		06:04		06:13	05:36	05:26		
	17:01	66	15:22 (MT 14)	17:40		18:13		19:47	20:19	20:39	
22	07:22	14:16 (MT 14)	06:48		06:02		06:11	05:35	05:26		
	17:02	66	15:22 (MT 14)	17:41		18:14		19:48	20:20	20:39	
23	07:22	14:18 (MT 14)	06:46		06:01		06:10	05:34	05:26		
	17:03	64	15:22 (MT 14)	17:43		18:15		19:49	20:21	20:39	
24	07:21	14:18 (MT 14)	06:45		05:59		06:08	05:34	05:26		
	17:05	64	15:22 (MT 14)	17:44		18:16		19:50	20:22	20:39	
25	07:20	14:19 (MT 14)	06:43		05:57		06:07	05:33	05:27		
	17:06	63	15:22 (MT 14)	17:45		18:17		19:51	20:22	20:40	
26	07:19	14:20 (MT 14)	06:42		05:55		06:05	05:32	05:27		
	17:07	62	15:22 (MT 14)	17:46		18:18		19:53	20:23	20:40	
27	07:19	14:20 (MT 14)	06:40	07:00 (80)	05:54		06:04	05:32	05:27		
	17:08	61	15:21 (MT 14)	17:47	3	07:03 (80)	18:20	19:54	20:24	20:40	
28	07:18	14:21 (MT 14)	06:39	06:58 (80)	05:52		06:02	05:31	05:28		
	17:10	60	15:21 (MT 14)	17:49	7	07:05 (80)	18:21	19:55	20:25	20:40	
29	07:17	14:22 (MT 14)			06:50		06:01	05:30	05:28		
	17:11	58	15:20 (MT 14)		19:22		19:56	20:26	20:40		
30	07:16	14:23 (MT 14)			06:49		06:00	05:30	05:28		
	17:12	57	15:20 (MT 14)		19:23		19:57	20:27	20:40		
31	07:15	14:25 (MT 14)			06:47			05:29			
	17:14	54	15:19 (MT 14)		19:24			20:28			
Potential sun hours	295		296		369		400	450	455		
Total, worst case	2045		392		111						
Sun reduction	0,44		0,46		0,44						
Oper. time red.	0,70		0,70		0,70						
Wind dir. red.	0,57		0,57		0,63						
Total reduction	0,18		0,18		0,19						
Total, real	360		72		22						

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: R114 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (65)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December			
1	05:29	05:53	06:25	06:56	06:32	14:17 (MT 14) 07:07			
	20:39	20:20	19:36	18:44	16:56	16	14:33 (MT 14) 16:31		
2	05:29	05:54	06:26	06:57	06:33	14:12 (MT 14) 07:09			
	20:39	20:19	19:34	18:42	16:55	25	14:37 (MT 14) 16:31		
3	05:30	05:55	06:27	06:59	06:34	14:09 (MT 14) 07:10			
	20:39	20:18	19:32	18:41	16:54	30	14:39 (MT 14) 16:30		
4	05:30	05:56	06:28	07:00	06:35	14:07 (MT 14) 07:11			
	20:39	20:16	19:31	18:39	16:53	35	14:42 (MT 14) 16:30		
5	05:31	05:57	06:29	07:01	07:29 (80)	06:37	14:04 (MT 14) 07:12		
	20:39	20:15	19:29	18:37	9	07:38 (80)	16:51	40	14:44 (MT 14) 16:30
6	05:32	05:59	06:30	07:02	07:26 (80)	06:38	14:02 (MT 14) 07:13		
	20:38	20:14	19:27	18:36	13	07:39 (80)	16:50	43	14:45 (MT 14) 16:30
7	05:32	06:00	06:31	07:03	07:25 (80)	06:39	14:00 (MT 14) 07:14		
	20:38	20:13	19:26	18:34	15	07:40 (80)	16:49	46	14:46 (MT 14) 16:30
8	05:33	06:01	06:33	07:04	07:24 (80)	06:40	14:00 (MT 14) 07:15		
	20:38	20:11	19:24	18:32	16	07:40 (80)	16:48	48	14:48 (MT 14) 16:30
9	05:34	06:02	06:34	07:05	07:26 (80)	06:42	13:58 (MT 14) 07:15		
	20:37	20:10	19:22	18:31	15	07:41 (80)	16:47	51	14:49 (MT 14) 16:30
10	05:34	06:03	06:35	07:06	07:27 (80)	06:43	13:57 (MT 14) 07:16		
	20:37	20:09	19:20	18:29	14	07:41 (80)	16:46	53	14:50 (MT 14) 16:30
11	05:35	06:04	06:36	07:07	07:28 (80)	06:44	13:56 (MT 14) 07:17		
	20:37	20:08	19:19	18:27	12	07:40 (80)	16:45	55	14:51 (MT 14) 16:30
12	05:36	06:05	06:37	07:08	07:29 (80)	06:45	13:55 (MT 14) 07:18		
	20:36	20:06	19:17	18:26	10	07:39 (80)	16:44	57	14:52 (MT 14) 16:30
13	05:36	06:06	06:38	07:10	07:30 (80)	06:46	13:54 (MT 14) 07:19		
	20:36	20:05	19:15	18:24	8	07:38 (80)	16:43	58	14:52 (MT 14) 16:30
14	05:37	06:07	06:39	07:11	07:31 (80)	06:48	13:54 (MT 14) 07:20		
	20:35	20:03	19:14	18:22	5	07:36 (80)	16:42	60	14:54 (MT 14) 16:30
15	05:38	06:08	06:40	07:12	07:32 (80)	06:49	13:53 (MT 14) 07:20		
	20:35	20:02	19:12	18:21	2	07:34 (80)	16:41	61	14:54 (MT 14) 16:30
16	05:39	06:09	06:41	07:13	06:50	13:53 (MT 14) 07:21			
	20:34	20:01	19:10	18:19	16:40	62	14:55 (MT 14) 16:31		
17	05:40	06:10	06:42	07:14	06:51	13:53 (MT 14) 07:22			
	20:33	19:59	19:08	18:18	16:39	63	14:56 (MT 14) 16:31		
18	05:40	06:11	06:43	07:15	06:53	13:52 (MT 14) 07:22			
	20:33	19:58	19:07	18:16	16:38	64	14:56 (MT 14) 16:31		
19	05:41	06:12	06:44	07:16	06:54	13:52 (MT 14) 07:23			
	20:32	19:56	19:05	18:15	16:38	64	14:56 (MT 14) 16:32		
20	05:42	06:13	06:45	07:17	06:55	13:51 (MT 14) 07:24			
	20:31	19:55	19:03	18:13	16:37	66	14:57 (MT 14) 16:32		
21	05:43	06:14	06:46	07:19	06:56	13:52 (MT 14) 07:24			
	20:30	19:53	19:01	18:12	16:36	66	14:58 (MT 14) 16:32		
22	05:44	06:15	06:47	07:20	06:57	13:52 (MT 14) 07:25			
	20:30	19:52	19:00	18:10	16:35	66	14:58 (MT 14) 16:33		
23	05:45	06:16	06:48	07:21	06:58	13:51 (MT 14) 07:25			
	20:29	19:50	18:58	18:09	16:35	67	14:58 (MT 14) 16:33		
24	05:46	06:17	06:49	07:22	07:00	13:51 (MT 14) 07:26			
	20:28	19:49	18:56	18:07	16:34	68	14:59 (MT 14) 16:34		
25	05:47	06:18	06:50	06:23	07:01	13:52 (MT 14) 07:26			
	20:27	19:47	18:54	17:06	16:34	68	15:00 (MT 14) 16:35		
26	05:48	06:19	06:51	06:25	07:02	13:52 (MT 14) 07:27			
	20:26	19:45	18:53	17:04	16:33	68	15:00 (MT 14) 16:35		
27	05:49	06:20	06:52	06:26	07:03	13:52 (MT 14) 07:27			
	20:25	19:44	18:51	17:03	16:33	68	15:00 (MT 14) 16:36		
28	05:50	06:21	06:53	06:27	07:04	13:52 (MT 14) 07:27			
	20:24	19:42	18:49	17:02	16:32	69	15:01 (MT 14) 16:37		
29	05:51	06:22	06:54	06:28	07:05	13:52 (MT 14) 07:27			
	20:23	19:41	18:47	17:00	16:32	69	15:01 (MT 14) 16:37		
30	05:52	06:23	06:55	06:29	07:06	13:52 (MT 14) 07:28			
	20:22	19:39	18:46	16:59	16:31	69	15:01 (MT 14) 16:38		
31	05:52	06:24	06:56	06:31			07:28		14:06 (MT 14)
	20:21	19:37		16:58			16:39	69	15:15 (MT 14)
Potential sun hours	461	429	375	344	296		285		
Total, worst case					119				2126
Sun reduction					0,44				0,36
Oper. time red.					0,70				0,70
Wind dir. red.					0,63				0,57
Total reduction					0,19				0,15
Total, real					23				308

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: R115 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (66)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:40	05:54 20:20	06:25 19:36	06:57 18:44	06:32 16:56	07:08 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:33 17:54	06:40 19:28	05:55 20:01	05:27 20:31	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:39	06:36 16:53	07:11 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	07:12 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:04	05:27 20:32	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:45	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:14 16:30
8	07:28 16:46	07:07 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:16 16:30
10	07:28 16:49	07:04 17:26	06:23 18:01	06:30 19:35	05:47 20:08	05:26 20:35	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30
11	07:28 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36	05:36 20:36	06:05 20:06	06:37 19:17	07:09 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	07:19 16:30
14	07:27 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:23	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:09	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:54 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	07:23 16:31
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:27 20:40	05:47 20:27	06:18 19:47	06:50 18:55	06:23 17:06	07:01 16:34	07:26 16:35
26	07:20 17:07	06:42 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	07:27 16:35
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:28 16:37
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:29 20:40	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	07:28 16:38
31	07:15 17:14		06:47 19:24		05:29 20:28		05:53 20:21	06:24 19:37		06:31 16:58		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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

SHADOW - Calendar

Shadow receptor: R116 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (67)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	07:14 (MT 11) 08:03 (MT 11)	05:58 19:58
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	07:11 (MT 11) 08:04 (MT 11)	05:57 19:59
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	07:10 (MT 11) 08:06 (MT 11)	05:56 20:00
4	07:28 16:43	07:11 17:19	06:33 17:54	06:40 19:28	07:08 (MT 11) 08:06 (MT 11)	05:55 20:01
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	07:07 (MT 11) 08:07 (MT 11)	05:53 20:02
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	07:06 (MT 11) 08:08 (MT 11)	05:52 20:04
7	07:28 16:45	07:08 17:23	06:28 17:57	06:35 19:32	07:04 (MT 11) 08:08 (MT 11)	05:51 20:05
8	07:28 16:46	07:07 17:24	06:26 17:58	06:34 19:33	07:03 (MT 11) 08:09 (MT 11)	05:50 20:06
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	07:03 (MT 11) 08:10 (MT 11)	05:48 20:07
10	07:28 16:49	07:04 17:26	06:23 18:01	06:30 19:35	07:01 (MT 11) 08:09 (MT 11)	05:47 20:08
11	07:28 16:50	07:03 17:28	06:21 18:02	06:29 19:36	07:00 (MT 11) 08:09 (MT 11)	05:46 20:09
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	07:00 (MT 11) 08:10 (MT 11)	05:45 20:10
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	06:59 (MT 11) 08:10 (MT 11)	05:44 20:11
14	07:27 16:53	06:59 17:32	06:16 18:05	06:24 19:39	06:59 (MT 11) 08:10 (MT 11)	05:43 20:12
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	06:58 (MT 11) 08:10 (MT 11)	05:42 20:13
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	06:57 (MT 11) 08:09 (MT 11)	05:41 20:14
17	07:25 16:56	06:55 17:35	06:11 18:09	06:19 19:43	06:57 (MT 11) 08:10 (MT 11)	05:40 20:15
18	07:25 16:58	06:54 17:37	06:09 18:10	06:17 19:44	06:56 (MT 11) 08:09 (MT 11)	05:39 20:16
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	06:56 (MT 11) 08:09 (MT 11)	05:38 20:17
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	06:55 (MT 11) 08:08 (MT 11)	05:37 20:18
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	06:56 (MT 11) 08:08 (MT 11)	05:36 20:19
22	07:22 17:02	06:48 17:42	06:02 18:14	06:11 19:48	06:55 (MT 11) 08:07 (MT 11)	05:35 20:20
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	06:55 (MT 11) 08:07 (MT 11)	05:35 20:21
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	06:56 (MT 11) 08:07 (MT 11)	05:34 20:22
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	06:55 (MT 11) 08:06 (MT 11)	05:33 20:23
26	07:20 17:07	06:42 17:46	05:56 18:19	06:05 19:53	06:56 (MT 11) 08:06 (MT 11)	05:32 20:23
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	06:55 (MT 11) 08:05 (MT 11)	05:32 20:24
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:56 (MT 11) 08:04 (MT 11)	05:31 20:25
29	07:17 17:11		06:50 19:22	06:01 19:56	07:21 (MT 11) 07:57 (MT 11)	05:30 20:26
30	07:16 17:12		06:49 19:23	06:00 19:57	07:18 (MT 11) 07:59 (MT 11)	05:30 20:27
31	07:15 17:14		06:47 19:24		07:16 (MT 11) 08:02 (MT 11)	05:29 20:28
Potential sun hours	295	296	369	400	450	455
Total, worst case			174	2019		928
Sun reduction			0,44	0,48		0,47
Oper. time red.			0,70	0,70		0,70
Wind dir. red.			0,61	0,61		0,61
Total reduction			0,19	0,20		0,20
Total, real			33	411		184

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: R116 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (67)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December		
1	05:29	05:54	07:15 (MT 11)	06:25	07:00 (MT 11)	06:57	06:32	07:08
	20:40	20:20	08:01 (MT 11)	19:36	08:09 (MT 11)	18:44	16:56	16:31
2	05:30	05:55	07:14 (MT 11)	06:26	07:00 (MT 11)	06:58	06:33	07:09
	20:39	20:19	08:03 (MT 11)	19:34	08:08 (MT 11)	18:42	16:55	16:31
3	05:30	05:56	07:13 (MT 11)	06:28	07:00 (MT 11)	06:59	06:34	07:10
	20:39	20:18	08:04 (MT 11)	19:32	08:07 (MT 11)	18:41	16:54	16:31
4	05:31	05:57	07:12 (MT 11)	06:29	07:00 (MT 11)	07:00	06:36	07:11
	20:39	20:17	08:05 (MT 11)	19:31	08:06 (MT 11)	18:39	16:53	16:30
5	05:31	05:58	07:11 (MT 11)	06:30	07:00 (MT 11)	07:01	06:37	07:12
	20:39	20:15	08:06 (MT 11)	19:29	08:04 (MT 11)	18:37	16:51	16:30
6	05:32	05:59	07:10 (MT 11)	06:31	07:01 (MT 11)	07:02	06:38	07:13
	20:39	20:14	08:07 (MT 11)	19:27	08:03 (MT 11)	18:36	16:50	16:30
7	05:32	06:00	07:09 (MT 11)	06:32	07:02 (MT 11)	07:03	06:39	07:14
	20:38	20:13	08:08 (MT 11)	19:26	08:02 (MT 11)	18:34	16:49	16:30
8	05:33	06:01	07:08 (MT 11)	06:33	07:03 (MT 11)	07:04	06:40	07:15
	20:38	20:12	08:08 (MT 11)	19:24	08:01 (MT 11)	18:32	16:48	16:30
9	05:34	06:02	07:08 (MT 11)	06:34	07:03 (MT 11)	07:05	06:42	07:16
	20:38	20:10	08:09 (MT 11)	19:22	07:59 (MT 11)	18:31	16:47	16:30
10	05:34	06:03	07:07 (MT 11)	06:35	07:04 (MT 11)	07:06	06:43	07:16
	20:37	20:09	08:10 (MT 11)	19:21	07:57 (MT 11)	18:29	16:46	16:30
11	05:35	06:04	07:06 (MT 11)	06:36	07:06 (MT 11)	07:07	06:44	07:17
	20:37	20:08	08:10 (MT 11)	19:19	07:55 (MT 11)	18:27	16:45	16:30
12	05:36	06:05	07:05 (MT 11)	06:37	07:07 (MT 11)	07:09	06:45	07:18
	20:36	20:06	08:11 (MT 11)	19:17	07:53 (MT 11)	18:26	16:44	16:30
13	05:37	06:06	07:05 (MT 11)	06:38	07:09 (MT 11)	07:10	06:47	07:19
	20:36	20:05	08:11 (MT 11)	19:15	07:51 (MT 11)	18:24	16:43	16:30
14	05:37	06:07	07:04 (MT 11)	06:39	07:11 (MT 11)	07:11	06:48	07:20
	20:35	20:04	08:12 (MT 11)	19:14	07:48 (MT 11)	18:23	16:42	16:30
15	05:38	06:08	07:04 (MT 11)	06:40	07:14 (MT 11)	07:12	06:49	07:20
	20:35	20:02	08:12 (MT 11)	19:12	07:44 (MT 11)	18:21	16:41	16:30
16	05:39	06:09	07:03 (MT 11)	06:41	07:17 (MT 11)	07:13	06:50	07:21
	20:34	20:01	08:12 (MT 11)	19:10	07:40 (MT 11)	18:19	16:40	16:31
17	05:40	06:10	07:03 (MT 11)	06:42	07:24 (MT 11)	07:14	06:51	07:22
	20:33	19:59	08:13 (MT 11)	19:08	07:33 (MT 11)	18:18	16:39	16:31
18	05:41	06:11	07:02 (MT 11)	06:43		07:15	06:53	07:23
	20:33	19:58	08:13 (MT 11)	19:07		18:16	16:38	16:31
19	05:41	06:12	07:02 (MT 11)	06:44		07:16	06:54	07:23
	20:32	19:56	08:13 (MT 11)	19:05		18:15	16:38	16:32
20	05:42	06:13	07:01 (MT 11)	06:45		07:18	06:55	07:24
	20:31	19:55	08:13 (MT 11)	19:03		18:13	16:37	16:32
21	05:43	06:14	07:01 (MT 11)	06:46		07:19	06:56	07:24
	20:30	19:53	08:13 (MT 11)	19:01		18:12	16:36	16:33
22	05:44	06:15	07:01 (MT 11)	06:47		07:20	06:57	07:25
	20:30	19:52	08:13 (MT 11)	19:00		18:10	16:36	16:33
23	05:45	07:32 (MT 11)	06:16	07:00 (MT 11)	06:48	07:21	06:59	07:25
	20:29	12 07:44 (MT 11)	19:50	08:13 (MT 11)	18:58	18:09	16:35	16:34
24	05:46	07:29 (MT 11)	06:17	07:00 (MT 11)	06:49	07:22	07:00	07:26
	20:28	19 07:48 (MT 11)	19:49	08:13 (MT 11)	18:56	18:07	16:34	16:34
25	05:47	07:26 (MT 11)	06:18	07:00 (MT 11)	06:50	06:23	07:01	07:26
	20:27	25 07:51 (MT 11)	19:47	08:13 (MT 11)	18:55	17:06	16:34	16:35
26	05:48	07:23 (MT 11)	06:19	07:00 (MT 11)	06:51	06:25	07:02	07:27
	20:26	29 07:52 (MT 11)	19:46	08:12 (MT 11)	18:53	17:04	16:33	16:35
27	05:49	07:22 (MT 11)	06:20	07:00 (MT 11)	06:52	06:26	07:03	07:27
	20:25	32 07:54 (MT 11)	19:44	08:12 (MT 11)	18:51	17:03	16:33	16:36
28	05:50	07:20 (MT 11)	06:21	07:00 (MT 11)	06:53	06:27	07:04	07:27
	20:24	36 07:56 (MT 11)	19:42	08:12 (MT 11)	18:49	17:02	16:32	16:37
29	05:51	07:19 (MT 11)	06:22	07:00 (MT 11)	06:54	06:28	07:05	07:28
	20:23	38 07:57 (MT 11)	19:41	08:11 (MT 11)	18:48	17:00	16:32	16:37
30	05:52	07:17 (MT 11)	06:23	07:00 (MT 11)	06:55	06:29	07:07	07:28
	20:22	42 07:59 (MT 11)	19:39	08:11 (MT 11)	18:46	16:59	16:31	16:38
31	05:53	07:16 (MT 11)	06:24	07:00 (MT 11)		06:31		07:28
	20:21	44 08:00 (MT 11)	19:37	08:10 (MT 11)		16:58		16:39
Potential sun hours	461	429	375	344	296	285		
Total, worst case	277	2030	859					
Sun reduction	0,61	0,67	0,58					
Oper. time red.	0,70	0,70	0,70					
Wind dir. red.	0,61	0,61	0,61					
Total reduction	0,26	0,28	0,25					
Total, real	71	577	212					

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: R117 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (68)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28		09:14 (MT 11)	07:14	09:46 (MT 11)	06:37	06:45	05:58	05:29			
	16:40	74	10:28 (MT 11)	17:15	10:12 (MT 11)	17:50	19:25	19:58	20:28			
2	07:28		09:14 (MT 11)	07:13	09:49 (MT 11)	06:36	06:44	05:57	05:28			
	16:41	74	10:28 (MT 11)	17:16	10:07 (MT 11)	17:51	19:26	19:59	20:29			
3	07:28		09:15 (MT 11)	07:12		06:34	06:42	05:56	05:28			
	16:42	74	10:29 (MT 11)	17:17		17:52	19:27	20:00	20:30			
4	07:28		09:16 (MT 11)	07:11		06:33	06:40	05:55	05:27			
	16:43	73	10:29 (MT 11)	17:19		17:54	19:28	20:01	20:31			
5	07:28		09:16 (MT 11)	07:10		06:31	06:39	05:53	05:27			
	16:43	73	10:29 (MT 11)	17:20		17:55	19:30	20:02	20:31			
6	07:28		09:17 (MT 11)	07:09		06:29	06:37	05:52	05:27			
	16:44	73	10:30 (MT 11)	17:21		17:56	19:31	20:04	20:32			
7	07:28		09:18 (MT 11)	07:08		06:28	06:35	05:51	05:26			
	16:45	72	10:30 (MT 11)	17:23		17:57	19:32	20:05	20:33			
8	07:28		09:18 (MT 11)	07:07		06:26	06:34	05:50	05:26			
	16:46	71	10:29 (MT 11)	17:24		17:58	19:33	20:06	20:33			
9	07:28		09:18 (MT 11)	07:05		06:24	06:32	05:48	05:26			
	16:47	72	10:30 (MT 11)	17:25		17:59	19:34	20:07	20:34			
10	07:28		09:19 (MT 11)	07:04		06:23	06:30	05:47	05:26			
	16:48	71	10:30 (MT 11)	17:26		18:01	19:35	20:08	20:35			
11	07:28		09:20 (MT 11)	07:03		06:21	06:29	05:46	05:25			
	16:50	70	10:30 (MT 11)	17:28		18:02	19:36	20:09	20:35			
12	07:27		09:20 (MT 11)	07:02		06:19	06:27	05:45	05:25			
	16:51	70	10:30 (MT 11)	17:29		18:03	19:37	20:10	20:36			
13	07:27		09:21 (MT 11)	07:00		06:18	06:25	05:44	05:25			
	16:52	69	10:30 (MT 11)	17:30		18:04	19:38	20:11	20:36			
14	07:27		09:22 (MT 11)	06:59		06:16	06:24	05:43	05:25			
	16:53	68	10:30 (MT 11)	17:32		18:05	19:39	20:12	20:37			
15	07:26		09:23 (MT 11)	06:58		06:14	06:22	05:42	05:25			
	16:54	67	10:30 (MT 11)	17:33		18:06	19:41	20:13	20:37			
16	07:26		09:23 (MT 11)	06:56	07:16 (MT 14)	06:13	06:21	05:41	05:25			
	16:55	66	10:29 (MT 11)	17:34	07:20 (MT 14)	18:07	19:42	20:14	20:37			
17	07:25		09:24 (MT 11)	06:55	07:15 (MT 14)	06:11	06:19	05:40	05:25			
	16:56	66	10:30 (MT 11)	17:35	07:22 (MT 14)	18:09	19:43	20:15	20:38			
18	07:25		09:25 (MT 11)	06:54	07:13 (MT 14)	06:09	06:17	05:39	05:25			
	16:57	64	10:29 (MT 11)	17:37	07:22 (MT 14)	18:10	19:44	20:16	20:38			
19	07:24		09:26 (MT 11)	06:52	07:12 (MT 14)	06:08	06:16	05:38	05:25			
	16:59	63	10:29 (MT 11)	17:38	07:23 (MT 14)	18:11	19:45	20:17	20:38			
20	07:24		09:27 (MT 11)	06:51	07:10 (MT 14)	06:06	06:14	05:37	05:25			
	17:00	61	10:28 (MT 11)	17:39	07:23 (MT 14)	18:12	19:46	20:18	20:39			
21	07:23		09:27 (MT 11)	06:49	07:09 (MT 14)	06:04	06:13	05:36	05:26			
	17:01	60	10:27 (MT 11)	17:40	07:24 (MT 14)	18:13	19:47	20:19	20:39			
22	07:22		09:29 (MT 11)	06:48	07:07 (MT 14)	06:02	06:11	05:35	05:26			
	17:02	58	10:27 (MT 11)	17:41	07:23 (MT 14)	18:14	19:48	20:20	20:39			
23	07:22		09:30 (MT 11)	06:46	07:06 (MT 14)	06:01	06:10	05:35	05:26			
	17:04	57	10:27 (MT 11)	17:43	07:23 (MT 14)	18:15	19:49	20:21	20:39			
24	07:21		09:31 (MT 11)	06:45	07:04 (MT 14)	05:59	06:08	05:34	05:26			
	17:05	54	10:25 (MT 11)	17:44	07:22 (MT 14)	18:16	19:50	20:22	20:40			
25	07:20		09:32 (MT 11)	06:43	07:05 (MT 14)	05:57	06:07	05:33	05:27			
	17:06	52	10:24 (MT 11)	17:45	07:22 (MT 14)	18:17	19:52	20:23	20:40			
26	07:20		09:33 (MT 11)	06:42	07:06 (MT 14)	05:56	06:05	05:32	05:27			
	17:07	50	10:23 (MT 11)	17:46	07:20 (MT 14)	18:19	19:53	20:23	20:40			
27	07:19		09:34 (MT 11)	06:40	07:08 (MT 14)	05:54	06:04	05:32	05:27			
	17:09	48	10:22 (MT 11)	17:48	07:18 (MT 14)	18:20	19:54	20:24	20:40			
28	07:18		09:37 (MT 11)	06:39		05:52	06:03	05:31	05:28			
	17:10	44	10:21 (MT 11)	17:49		18:21	19:55	20:25	20:40			
29	07:17		09:39 (MT 11)			06:50	06:01	05:30	05:28			
	17:11	40	10:19 (MT 11)			19:22	19:56	20:26	20:40			
30	07:16		09:41 (MT 11)			06:49	06:00	05:30	05:29			
	17:12	36	10:17 (MT 11)			19:23	19:57	20:27	20:40			
31	07:15		09:43 (MT 11)			06:47		05:29				
	17:14	32	10:15 (MT 11)			19:24		20:28				
Potential sun hours	295		296			369	400	450	455			
Total, worst case	1922		195									
Sun reduction	0,44		0,46									
Oper. time red.	0,70		0,70									
Wind dir. red.	0,71		0,66									
Total reduction	0,22		0,21									
Total, real	420		41									

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: R117 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (68)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December	
1	05:29 20:40	05:54 20:20	06:25 19:36	06:57 18:44	06:32 16:56	07:08 16:31	70
2	05:30 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31	71
3	05:30 20:39	05:56 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:31	72
4	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:39	06:36 16:53	07:11 16:30	71
5	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	07:12 16:30	72
6	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30	73
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:14 16:30	73
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30	73
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:16 16:30	74
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30	73
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30	74
12	05:36 20:36	06:05 20:06	06:37 19:17	07:09 18:26	06:45 16:44	07:18 16:30	74
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	07:19 16:30	74
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:23	06:48 16:42	07:20 16:30	74
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30	75
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31	75
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31	75
18	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	07:23 16:31	75
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32	74
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32	75
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33	75
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33	75
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	07:25 16:34	75
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34	74
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35	74
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	07:27 16:35	75
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36	75
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37	75
29	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:28 16:37	74
30	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	07:28 16:38	74
31	05:53 20:21	06:24 19:37	06:56 16:58	06:31 16:58		07:28 16:39	75
Potential sun hours	461	429	375	344	296	285	
Total, worst case				157	1172	2288	
Sun reduction				0,44	0,41	0,36	
Oper. time red.				0,70	0,70	0,70	
Wind dir. red.				0,64	0,71	0,71	
Total reduction				0,20	0,20	0,18	
Total, real				31	234	411	

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: R118 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (69)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28	07:14			06:37	07:09 (MT 14)	06:45	17:24 (MT 11)	05:58	05:29		
	16:40	17:15			17:50	83 16:56 (MT 11)	19:25	3 17:27 (MT 11)	19:58	20:28		
2	07:28	07:13			06:36	07:09 (MT 14)	06:44		05:57	05:28		
	16:41	17:16			17:51	84 16:57 (MT 11)	19:26		19:59	20:29		
3	07:28	07:12			06:34	07:09 (MT 14)	06:42		05:56	05:28		
	16:42	17:17			17:52	86 16:58 (MT 11)	19:27		20:00	20:30		
4	07:28	07:11			06:32	07:10 (MT 14)	06:40		05:54	05:27		
	16:43	17:19			17:53	86 16:59 (MT 11)	19:28		20:01	20:31		
5	07:28	07:10			06:31	07:10 (MT 14)	06:39		05:53	05:27		
	16:43	17:20			17:55	86 16:59 (MT 11)	19:30		20:02	20:31		
6	07:28	07:09			06:29	07:11 (MT 14)	06:37		05:52	05:27		
	16:44	17:21			17:56	84 16:59 (MT 11)	19:31		20:03	20:32		
7	07:28	07:08			06:28	07:13 (MT 14)	06:35		05:51	05:26		
	16:45	17:23			17:57	83 17:00 (MT 11)	19:32		20:05	20:33		
8	07:28	07:07			06:26	07:14 (MT 14)	06:34		05:50	05:26		
	16:46	17:24			17:58	80 17:00 (MT 11)	19:33		20:06	20:33		
9	07:28	07:05			06:24	07:16 (MT 14)	06:32		05:48	05:26		
	16:47	17:25			17:59	76 17:00 (MT 11)	19:34		20:07	20:34		
10	07:28	07:04			06:23	07:20 (MT 14)	06:30		05:47	05:26		
	16:48	17:26			18:01	68 17:00 (MT 11)	19:35		20:08	20:35		
11	07:28	07:03			06:21	15:59 (MT 11)	06:29		05:46	05:25		
	16:50	17:28			18:02	61 17:00 (MT 11)	19:36		20:09	20:35		
12	07:27	07:02			06:19	15:59 (MT 11)	06:27		05:45	05:25		
	16:51	17:29			18:03	61 17:00 (MT 11)	19:37		20:10	20:36		
13	07:27	07:00			06:18	15:59 (MT 11)	06:25		05:44	05:25		
	16:52	17:30			18:04	61 17:00 (MT 11)	19:38		20:11	20:36		
14	07:27	06:59			06:16	15:59 (MT 11)	06:24		05:43	05:25		
	16:53	17:31			18:05	61 17:00 (MT 11)	19:39		20:12	20:37		
15	07:26	06:58			06:14	15:59 (MT 11)	06:22		05:42	05:25		
	16:54	17:33			18:06	60 16:59 (MT 11)	19:41		20:13	20:37		
16	07:26	06:56		07:23 (MT 14)	06:13	15:59 (MT 11)	06:21		05:41	05:25		
	16:55	17:34	9	07:32 (MT 14)	18:07	59 16:58 (MT 11)	19:42		20:14	20:37		
17	07:25	06:55		07:20 (MT 14)	06:11	15:59 (MT 11)	06:19		05:40	05:25		
	16:56	17:35	16	07:36 (MT 14)	18:08	59 16:58 (MT 11)	19:43		20:15	20:38		
18	07:25	06:54		07:17 (MT 14)	06:09	15:59 (MT 11)	06:17		05:39	05:25		
	16:57	17:36	21	07:38 (MT 14)	18:10	58 16:57 (MT 11)	19:44		20:16	20:38		
19	07:24	06:52		07:15 (MT 14)	06:08	16:00 (MT 11)	06:16		05:38	05:25		
	16:59	17:38	25	07:40 (MT 14)	18:11	56 16:56 (MT 11)	19:45		20:17	20:38		
20	07:24	06:51		07:13 (MT 14)	06:06	16:01 (MT 11)	06:14		05:37	05:25		
	17:00	17:39	27	07:40 (MT 14)	18:12	55 16:56 (MT 11)	19:46		20:18	20:39		
21	07:23	06:49		07:13 (MT 14)	06:04	16:01 (MT 11)	06:13		05:36	05:26		
	17:01	17:40	38	16:37 (MT 11)	18:13	54 16:55 (MT 11)	19:47		20:19	20:39		
22	07:22	06:48		07:11 (MT 14)	06:02	16:01 (MT 11)	06:11		05:35	05:26		
	17:02	17:41	51	16:42 (MT 11)	18:14	53 16:54 (MT 11)	19:48		20:20	20:39		
23	07:22	06:46		07:11 (MT 14)	06:01	16:02 (MT 11)	06:10		05:35	05:26		
	17:03	17:43	59	16:46 (MT 11)	18:15	50 16:52 (MT 11)	19:49		20:21	20:39		
24	07:21	06:45		07:10 (MT 14)	05:59	16:04 (MT 11)	06:08		05:34	05:26		
	17:05	17:44	66	16:48 (MT 11)	18:16	47 16:51 (MT 11)	19:50		20:22	20:39		
25	07:20	06:43		07:10 (MT 14)	05:57	16:04 (MT 11)	06:07		05:33	05:27		
	17:06	17:45	71	16:51 (MT 11)	18:17	46 16:50 (MT 11)	19:52		20:23	20:40		
26	07:20	06:42		07:09 (MT 14)	05:56	16:05 (MT 11)	06:05		05:32	05:27		
	17:07	17:46	75	16:52 (MT 11)	18:19	43 16:48 (MT 11)	19:53		20:23	20:40		
27	07:19	06:40		07:09 (MT 14)	05:54	16:07 (MT 11)	06:04		05:32	05:27		
	17:08	17:48	79	16:54 (MT 11)	18:20	40 16:47 (MT 11)	19:54		20:24	20:40		
28	07:18	06:39		07:09 (MT 14)	05:52	16:09 (MT 11)	06:03		05:31	05:28		
	17:10	17:49	81	16:55 (MT 11)	18:21	35 16:44 (MT 11)	19:55		20:25	20:40		
29	07:17				06:50	17:11 (MT 11)	06:01		05:30	05:28		
	17:11				19:22	31 17:42 (MT 11)	19:56		20:26	20:40		
30	07:16				06:49	17:13 (MT 11)	06:00		05:30	05:29		
	17:12				19:23	26 17:39 (MT 11)	19:57		20:27	20:40		
31	07:15				06:47	17:17 (MT 11)			05:29			
	17:14				19:24	18 17:35 (MT 11)			20:28			
Potential sun hours	295	296			369		400		450	455		
Total, worst case			618			1850		3				
Sun reduction			0,46			0,44		0,48				
Oper. time red.			0,70			0,70		0,70				
Wind dir. red.			0,61			0,58		0,56				
Total reduction			0,20			0,18		0,19				
Total, real			121			328		1				

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: R118 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (69)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

N NNE ENE E ESE SSE S SSW WSW W WNW NNW Sum
981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

	July	August	September	October	November	December
1	05:29	05:54	06:25	06:56	16:38 (MT 11)	07:08
	20:40	20:20	19:36	18:44	61 17:39 (MT 11)	16:31
2	05:29	05:55	06:26	06:58	16:38 (MT 11)	06:33
	20:39	20:19	19:34	18:42	61 17:39 (MT 11)	16:55
3	05:30	05:56	06:27	06:59	16:38 (MT 11)	06:34
	20:39	20:18	19:32	18:41	60 17:38 (MT 11)	16:54
4	05:31	05:57	06:28	07:00	07:55 (MT 14)	06:35
	20:39	20:16	19:31	18:39	74 17:38 (MT 11)	16:53
5	05:31	05:58	06:30	07:01	07:51 (MT 14)	06:37
	20:39	20:15	19:29	18:37	79 17:37 (MT 11)	16:51
6	05:32	05:59	06:31	07:02	07:49 (MT 14)	06:38
	20:39	20:14	19:27	18:36	82 17:36 (MT 11)	16:50
7	05:32	06:00	06:32	07:03	07:47 (MT 14)	06:39
	20:38	20:13	19:26	18:34	84 17:35 (MT 11)	16:49
8	05:33	06:01	06:33	07:04	07:46 (MT 14)	06:40
	20:38	20:12	19:24	18:32	85 17:34 (MT 11)	16:48
9	05:34	06:02	06:34	07:05	07:45 (MT 14)	06:42
	20:38	20:10	19:22	18:31	86 17:34 (MT 11)	16:47
10	05:34	06:03	06:35	07:06	07:44 (MT 14)	06:43
	20:37	20:09	19:21	18:29	86 17:33 (MT 11)	16:46
11	05:35	06:04	06:36	07:07	07:43 (MT 14)	06:44
	20:37	20:08	19:19	18:27	86 17:32 (MT 11)	16:45
12	05:36	06:05	06:37	17:09 (MT 11)	07:08	07:42 (MT 14)
	20:36	20:06	19:17	17:26 (MT 11)	18:26	84 17:30 (MT 11)
13	05:37	06:06	06:38	17:04 (MT 11)	07:10	07:42 (MT 14)
	20:36	20:05	19:15	17:29 (MT 11)	18:24	83 17:29 (MT 11)
14	05:37	06:07	06:39	17:01 (MT 11)	07:11	07:41 (MT 14)
	20:35	20:04	19:14	17:32 (MT 11)	18:22	81 17:27 (MT 11)
15	05:38	06:08	06:40	16:58 (MT 11)	07:12	07:42 (MT 14)
	20:35	20:02	19:12	17:33 (MT 11)	18:21	77 17:26 (MT 11)
16	05:39	06:09	06:41	16:56 (MT 11)	07:13	07:42 (MT 14)
	20:34	20:01	19:10	17:35 (MT 11)	18:19	74 17:24 (MT 11)
17	05:40	06:10	06:42	16:54 (MT 11)	07:14	07:42 (MT 14)
	20:33	19:59	19:08	17:36 (MT 11)	18:18	69 17:22 (MT 11)
18	05:41	06:11	06:43	16:52 (MT 11)	07:15	07:42 (MT 14)
	20:33	19:58	19:07	17:37 (MT 11)	18:16	63 17:19 (MT 11)
19	05:41	06:12	06:44	16:50 (MT 11)	07:16	07:42 (MT 14)
	20:32	19:56	19:05	17:38 (MT 11)	18:15	57 17:16 (MT 11)
20	05:42	06:13	06:45	16:49 (MT 11)	07:18	07:43 (MT 14)
	20:31	19:55	19:03	17:38 (MT 11)	18:13	47 17:12 (MT 11)
21	05:43	06:14	06:46	16:47 (MT 11)	07:19	07:44 (MT 14)
	20:30	19:53	19:01	17:39 (MT 11)	18:12	28 08:12 (MT 14)
22	05:44	06:15	06:47	16:46 (MT 11)	07:20	07:44 (MT 14)
	20:30	19:52	19:00	17:39 (MT 11)	18:10	26 08:10 (MT 14)
23	05:45	06:16	06:48	16:44 (MT 11)	07:21	07:45 (MT 14)
	20:29	19:50	18:58	17:39 (MT 11)	18:09	24 08:09 (MT 14)
24	05:46	06:17	06:49	16:43 (MT 11)	07:22	07:47 (MT 14)
	20:28	19:49	18:56	17:39 (MT 11)	18:07	20 08:07 (MT 14)
25	05:47	06:18	06:50	16:42 (MT 11)	06:23	06:50 (MT 14)
	20:27	19:47	18:54	17:40 (MT 11)	17:06	15 07:05 (MT 14)
26	05:48	06:19	06:51	16:42 (MT 11)	06:25	06:54 (MT 14)
	20:26	19:45	18:53	17:41 (MT 11)	17:04	6 07:00 (MT 14)
27	05:49	06:20	06:52	16:41 (MT 11)	06:26	
	20:25	19:44	18:51	17:40 (MT 11)	17:03	
28	05:50	06:21	06:53	16:40 (MT 11)	06:27	
	20:24	19:42	18:49	17:40 (MT 11)	17:02	
29	05:51	06:22	06:54	16:40 (MT 11)	06:28	
	20:23	19:41	18:48	17:40 (MT 11)	17:00	
30	05:52	06:23	06:55	16:39 (MT 11)	06:29	
	20:22	19:39	18:46	17:40 (MT 11)	16:59	
31	05:53	06:24		06:31		
	20:21	19:37		16:58		
Potential sun hours	461	429	375	344	296	285
Total, worst case			904		1598	
Sun reduction			0,58		0,44	
Oper. time red.			0,70		0,70	
Wind dir. red.			0,56		0,60	
Total reduction			0,23		0,18	
Total, real			207		291	

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: R119 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (70)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:14 (MT 14) 16:51 (MT 11)	06:45 19:25	05:58 20:28
2	07:28 16:41	07:13 17:16	06:36 17:51	07:16 (MT 14) 16:51 (MT 11)	06:44 19:26	05:57 19:59
3	07:28 16:42	07:12 17:17	06:34 17:52	07:16 (MT 14) 16:51 (MT 11)	06:42 19:27	05:56 20:30
4	07:28 16:43	07:11 17:19	06:32 17:53	07:18 (MT 14) 16:52 (MT 11)	06:40 19:28	05:54 20:31
5	07:28 16:43	07:10 17:20	06:31 17:55	07:19 (MT 14) 16:51 (MT 11)	06:39 19:30	05:53 20:31
6	07:28 16:44	07:09 17:21	06:29 17:56	07:21 (MT 14) 16:51 (MT 11)	06:37 19:31	05:52 20:32
7	07:28 16:45	07:08 17:23	06:28 17:57	07:27 (MT 14) 16:51 (MT 11)	06:35 19:32	05:51 20:33
8	07:28 16:46	07:07 17:24	06:26 17:58	15:50 (MT 11) 16:51 (MT 11)	06:34 19:33	05:50 20:33
9	07:28 16:47	07:05 17:25	06:24 17:59	15:50 (MT 11) 16:50 (MT 11)	06:32 19:34	05:48 20:34
10	07:28 16:48	07:04 17:26	06:23 18:01	15:51 (MT 11) 16:50 (MT 11)	06:30 19:35	05:47 20:35
11	07:28 16:50	07:03 17:28	06:21 18:02	15:51 (MT 11) 16:49 (MT 11)	06:29 19:36	05:46 20:35
12	07:27 16:51	07:02 17:29	06:19 18:03	15:51 (MT 11) 16:48 (MT 11)	06:27 19:37	05:45 20:36
13	07:27 16:52	07:00 17:30	06:18 18:04	15:52 (MT 11) 16:48 (MT 11)	06:25 19:38	05:44 20:36
14	07:27 16:53	06:59 17:31	06:16 18:05	15:52 (MT 11) 16:47 (MT 11)	06:24 19:39	05:43 20:37
15	07:26 16:54	06:58 17:33	06:14 18:06	15:53 (MT 11) 16:46 (MT 11)	06:22 19:41	05:42 20:37
16	07:26 16:55	06:56 17:34	06:13 18:07	15:53 (MT 11) 16:44 (MT 11)	06:21 19:42	05:41 20:37
17	07:25 16:56	06:55 17:35	06:11 18:08	15:55 (MT 11) 16:44 (MT 11)	06:19 19:43	05:40 20:38
18	07:25 16:57	06:54 17:36	06:09 18:10	15:55 (MT 11) 16:42 (MT 11)	06:17 19:44	05:39 20:38
19	07:24 16:59	06:52 17:38	06:08 18:11	15:56 (MT 11) 16:41 (MT 11)	06:16 19:45	05:38 20:38
20	07:24 17:00	06:51 17:39	06:06 18:12	15:58 (MT 11) 16:40 (MT 11)	06:14 19:46	05:37 20:39
21	07:23 17:01	06:49 17:40	06:04 18:13	16:00 (MT 11) 16:37 (MT 11)	06:13 19:47	05:36 20:39
22	07:22 17:02	06:48 17:41	06:02 18:14	16:01 (MT 11) 16:35 (MT 11)	06:11 19:48	05:35 20:39
23	07:22 17:03	06:46 17:43	06:01 18:15	16:03 (MT 11) 16:32 (MT 11)	06:10 19:49	05:35 20:39
24	07:21 17:05	06:45 17:44	05:59 18:16	16:07 (MT 11) 16:30 (MT 11)	06:08 19:50	05:34 20:39
25	07:20 17:06	06:43 17:45	05:57 18:17	16:11 (MT 11) 16:25 (MT 11)	06:07 19:52	05:33 20:40
26	07:20 17:07	06:42 17:46	05:56 18:19		06:05 19:53	05:32 20:40
27	07:19 17:08	06:40 17:48	05:54 18:20		06:04 19:54	05:32 20:40
28	07:18 17:10	06:39 17:49	05:52 18:21		06:03 19:55	05:31 20:40
29	07:17 17:11		06:50 19:22		06:01 19:56	05:30 20:40
30	07:16 17:12		06:49 19:23		06:00 19:57	05:29 20:40
31	07:15 17:14		06:47 19:24			05:29 20:28
Potential sun hours	295	296	369	400	450	455
Total, worst case		1093	1395			
Sun reduction		0,46	0,44			
Oper. time red.		0,70	0,70			
Wind dir. red.		0,60	0,57			
Total reduction		0,19	0,18			
Total, real		210	247			

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: R119 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (70)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December				
1	05:29	05:54	06:25	06:56	16:31 (MT 11)	06:32	07:08			
	20:40	20:20	19:36	18:44	57	17:28 (MT 11)	16:56	16:31		
2	05:29	05:55	06:26	06:58	16:30 (MT 11)	06:33	07:09			
	20:39	20:19	19:34	18:42	58	17:28 (MT 11)	16:55	16:31		
3	05:30	05:56	06:27	06:59	16:29 (MT 11)	06:34	07:10			
	20:39	20:18	19:32	18:41	59	17:28 (MT 11)	16:54	16:31		
4	05:31	05:57	06:28	07:00	16:28 (MT 11)	06:35	07:11			
	20:39	20:16	19:31	18:39	60	17:28 (MT 11)	16:53	16:30		
5	05:31	05:58	06:30	07:01	16:27 (MT 11)	06:37	07:12			
	20:39	20:15	19:29	18:37	60	17:27 (MT 11)	16:51	16:30		
6	05:32	05:59	06:31	07:02	16:26 (MT 11)	06:38	07:13			
	20:39	20:14	19:27	18:36	61	17:27 (MT 11)	16:50	16:30		
7	05:32	06:00	06:32	07:03	07:59 (MT 14)	06:39	07:14			
	20:38	20:13	19:26	18:34	71	17:27 (MT 11)	16:49	16:30		
8	05:33	06:01	06:33	07:04	07:55 (MT 14)	06:40	07:15			
	20:38	20:12	19:24	18:32	78	17:26 (MT 11)	16:48	16:30		
9	05:34	06:02	06:34	07:05	07:54 (MT 14)	06:42	07:15			
	20:38	20:10	19:22	18:31	82	17:27 (MT 11)	16:47	16:30		
10	05:34	06:03	06:35	07:06	07:52 (MT 14)	06:43	07:16			
	20:37	20:09	19:21	18:29	85	17:26 (MT 11)	16:46	16:30		
11	05:35	06:04	06:36	07:07	07:50 (MT 14)	06:44	07:17			
	20:37	20:08	19:19	18:27	87	17:25 (MT 11)	16:45	16:30		
12	05:36	06:05	06:37	07:08	07:49 (MT 14)	06:45	07:18			
	20:36	20:06	19:17	18:26	89	17:25 (MT 11)	16:44	16:30		
13	05:37	06:06	06:38	07:10	07:47 (MT 14)	06:47	07:19			
	20:36	20:05	19:15	18:24	90	17:24 (MT 11)	16:43	16:30		
14	05:37	06:07	06:39	07:11	07:46 (MT 14)	06:48	07:20			
	20:35	20:04	19:14	18:22	90	17:23 (MT 11)	16:42	16:30		
15	05:38	06:08	06:40	07:12	07:47 (MT 14)	06:49	07:20			
	20:35	20:02	19:12	18:21	89	17:23 (MT 11)	16:41	16:30		
16	05:39	06:09	06:41	07:13	07:46 (MT 14)	06:50	07:21			
	20:34	20:01	19:10	18:19	89	17:22 (MT 11)	16:40	16:31		
17	05:40	06:10	06:42	07:14	07:45 (MT 14)	06:51	07:22			
	20:33	19:59	19:08	18:18	88	17:21 (MT 11)	16:39	16:31		
18	05:41	06:11	06:43	17:00 (MT 11)	07:15	07:45 (MT 14)	06:53	07:22		
	20:33	19:58	19:07	10	17:10 (MT 11)	18:16	86	17:19 (MT 11)	16:38	16:31
19	05:41	06:12	06:44	16:54 (MT 11)	07:16	07:45 (MT 14)	06:54	07:23		
	20:32	19:56	19:05	21	17:15 (MT 11)	18:15	83	17:18 (MT 11)	16:38	16:32
20	05:42	06:13	06:45	16:50 (MT 11)	07:18	07:46 (MT 14)	06:55	07:24		
	20:31	19:55	19:03	28	17:18 (MT 11)	18:13	81	17:17 (MT 11)	16:37	16:32
21	05:43	06:14	06:46	16:47 (MT 11)	07:19	07:46 (MT 14)	06:56	07:24		
	20:30	19:53	19:01	33	17:20 (MT 11)	18:12	78	17:16 (MT 11)	16:36	16:32
22	05:44	06:15	06:47	16:45 (MT 11)	07:20	07:46 (MT 14)	06:57	07:25		
	20:30	19:52	19:00	36	17:21 (MT 11)	18:10	74	17:14 (MT 11)	16:36	16:33
23	05:45	06:16	06:48	16:42 (MT 11)	07:21	07:46 (MT 14)	06:59	07:25		
	20:29	19:50	18:58	41	17:23 (MT 11)	18:09	69	17:12 (MT 11)	16:35	16:33
24	05:46	06:17	06:49	16:40 (MT 11)	07:22	07:47 (MT 14)	07:00	07:26		
	20:28	19:49	18:56	44	17:24 (MT 11)	18:07	64	17:10 (MT 11)	16:34	16:34
25	05:47	06:18	06:50	16:38 (MT 11)	06:23	06:48 (MT 14)	07:01	07:26		
	20:27	19:47	18:54	46	17:24 (MT 11)	17:06	57	16:08 (MT 11)	16:34	16:35
26	05:48	06:19	06:51	16:37 (MT 11)	06:25	06:49 (MT 14)	07:02	07:27		
	20:26	19:45	18:53	49	17:26 (MT 11)	17:04	50	16:05 (MT 11)	16:33	16:35
27	05:49	06:20	06:52	16:36 (MT 11)	06:26	06:50 (MT 14)	07:03	07:27		
	20:25	19:44	18:51	51	17:27 (MT 11)	17:03	39	16:01 (MT 11)	16:33	16:36
28	05:50	06:21	06:53	16:34 (MT 11)	06:27	06:53 (MT 14)	07:04	07:27		
	20:24	19:42	18:49	53	17:27 (MT 11)	17:02	19	15:54 (MT 11)	16:32	16:37
29	05:51	06:22	06:54	16:33 (MT 11)	06:28	06:56 (MT 14)	07:05	07:28		
	20:23	19:41	18:48	54	17:27 (MT 11)	17:00	10	07:06 (MT 14)	16:32	16:37
30	05:52	06:23	06:55	16:32 (MT 11)	06:29	07:06	07:28			
	20:22	19:39	18:46	56	17:28 (MT 11)	16:59	16:31	16:38		
31	05:53	06:24		06:31			07:28			
	20:21	19:37		16:58			16:39			
Potential sun hours	461	429	375	344		296	285			
Total, worst case			522		2003					
Sun reduction			0,58		0,44					
Oper. time red.			0,70		0,70					
Wind dir. red.			0,57		0,59					
Total reduction			0,23		0,18					
Total, real			120		362					

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: R12 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	
1	07:28 16:40	08:06 (MT 01) 08:39 (MT 01)	07:14 17:15	06:37 17:50	06:45 19:25	07:23 (MT 04) 08:16 (MT 04)	05:59 19:58
2	07:28 16:41	08:07 (MT 01) 08:39 (MT 01)	07:13 17:16	06:36 17:51	06:44 19:26	07:23 (MT 04) 08:14 (MT 04)	05:57 19:59
3	07:28 16:42	08:07 (MT 01) 08:39 (MT 01)	07:12 17:18	06:34 17:52	06:42 19:27	07:25 (MT 04) 08:14 (MT 04)	05:56 20:00
4	07:28 16:43	08:08 (MT 01) 08:40 (MT 01)	07:11 17:19	06:33 17:54	06:40 19:28	07:25 (MT 04) 08:12 (MT 04)	05:55 20:01
5	07:28 16:44	08:09 (MT 01) 08:40 (MT 01)	07:10 17:20	06:31 17:55	06:39 19:30	07:26 (MT 04) 08:10 (MT 04)	05:53 20:02
6	07:28 16:45	08:10 (MT 01) 08:41 (MT 01)	07:09 17:21	06:29 17:56	06:37 19:31	07:27 (MT 04) 08:09 (MT 04)	05:52 20:03
7	07:28 16:46	08:10 (MT 01) 08:41 (MT 01)	07:08 17:23	06:28 17:57	06:47 (MT 04) 07:11 (MT 04)	06:35 19:32	07:28 (MT 04) 08:07 (MT 04)
8	07:28 16:47	08:10 (MT 01) 08:40 (MT 01)	07:07 17:24	06:26 17:58	06:45 (MT 04) 07:13 (MT 04)	06:34 19:33	07:29 (MT 04) 08:04 (MT 04)
9	07:28 16:48	08:11 (MT 01) 08:41 (MT 01)	07:05 17:25	06:24 17:59	06:43 (MT 04) 07:15 (MT 04)	06:32 19:34	07:32 (MT 04) 08:02 (MT 04)
10	07:28 16:49	08:12 (MT 01) 08:41 (MT 01)	07:04 17:27	06:23 18:01	06:42 (MT 04) 07:17 (MT 04)	06:30 19:35	07:34 (MT 04) 07:59 (MT 04)
11	07:28 16:50	08:13 (MT 01) 08:41 (MT 01)	07:03 17:28	06:21 18:02	06:40 (MT 04) 07:18 (MT 04)	06:29 19:36	07:36 (MT 04) 07:55 (MT 04)
12	07:27 16:51	08:13 (MT 01) 08:40 (MT 01)	07:02 17:29	06:19 18:03	06:38 (MT 04) 07:19 (MT 04)	06:27 19:37	07:43 (MT 04) 07:48 (MT 04)
13	07:27 16:52	08:15 (MT 01) 08:41 (MT 01)	07:00 17:30	06:18 18:04	06:37 (MT 04) 07:21 (MT 04)	06:25 19:38	07:41 (MT 04) 08:04 (MT 04)
14	07:27 16:53	08:15 (MT 01) 08:40 (MT 01)	06:59 17:32	06:16 18:05	06:35 (MT 04) 07:24 (MT 04)	06:24 19:39	07:39 (MT 04) 08:03 (MT 04)
15	07:26 16:54	08:17 (MT 01) 08:40 (MT 01)	06:58 17:33	06:14 18:06	06:33 (MT 04) 07:23 (MT 04)	06:22 19:41	07:37 (MT 04) 08:01 (MT 04)
16	07:26 16:55	08:17 (MT 01) 08:39 (MT 01)	06:56 17:34	06:13 18:07	06:31 (MT 04) 07:22 (MT 04)	06:21 19:42	07:35 (MT 04) 08:00 (MT 04)
17	07:25 16:56	08:19 (MT 01) 08:39 (MT 01)	06:55 17:35	06:11 18:09	06:30 (MT 04) 07:23 (MT 04)	06:19 19:43	07:33 (MT 04) 08:00 (MT 04)
18	07:25 16:58	08:20 (MT 01) 08:37 (MT 01)	06:54 17:37	06:09 18:10	06:28 (MT 04) 07:24 (MT 04)	06:18 19:44	07:31 (MT 04) 08:00 (MT 04)
19	07:24 16:59	08:23 (MT 01) 08:37 (MT 01)	06:52 17:38	06:08 18:11	06:26 (MT 04) 07:24 (MT 04)	06:16 19:45	07:29 (MT 04) 08:00 (MT 04)
20	07:24 17:00	08:25 (MT 01) 08:34 (MT 01)	06:51 17:39	06:06 18:12	06:24 (MT 04) 07:22 (MT 04)	06:14 19:46	07:27 (MT 04) 08:00 (MT 04)
21	07:23 17:01	08:25 (MT 01) 08:34 (MT 01)	06:49 17:40	06:04 18:13	06:23 (MT 04) 07:23 (MT 04)	06:13 19:47	07:25 (MT 04) 08:00 (MT 04)
22	07:22 17:02	08:25 (MT 01) 08:34 (MT 01)	06:48 17:42	06:02 18:14	06:21 (MT 04) 07:22 (MT 04)	06:11 19:48	07:23 (MT 04) 08:00 (MT 04)
23	07:22 17:04	08:25 (MT 01) 08:34 (MT 01)	06:46 17:43	06:01 18:15	06:20 (MT 04) 07:22 (MT 04)	06:10 19:49	07:21 (MT 04) 08:00 (MT 04)
24	07:21 17:05	08:25 (MT 01) 08:34 (MT 01)	06:45 17:44	05:59 18:16	06:18 (MT 04) 07:22 (MT 04)	06:08 19:50	07:19 (MT 04) 08:00 (MT 04)
25	07:20 17:06	08:25 (MT 01) 08:34 (MT 01)	06:43 17:45	05:57 18:17	06:16 (MT 04) 07:22 (MT 04)	06:07 19:52	07:17 (MT 04) 08:00 (MT 04)
26	07:19 17:07	08:25 (MT 01) 08:34 (MT 01)	06:42 17:46	05:56 18:19	06:14 (MT 04) 07:21 (MT 04)	06:06 19:53	07:15 (MT 04) 08:00 (MT 04)
27	07:19 17:09	08:25 (MT 01) 08:34 (MT 01)	06:40 17:48	05:54 18:20	06:13 (MT 04) 07:21 (MT 04)	06:04 19:54	07:13 (MT 04) 08:00 (MT 04)
28	07:18 17:10	08:25 (MT 01) 08:34 (MT 01)	06:39 17:49	05:52 18:21	06:11 (MT 04) 07:20 (MT 04)	06:03 19:55	07:11 (MT 04) 08:00 (MT 04)
29	07:17 17:11	08:25 (MT 01) 08:34 (MT 01)	06:37 17:50	05:50 18:22	06:09 (MT 04) 07:20 (MT 04)	06:01 19:56	07:09 (MT 04) 08:00 (MT 04)
30	07:16 17:12	08:25 (MT 01) 08:34 (MT 01)	06:35 17:51	05:49 18:23	06:07 (MT 04) 07:20 (MT 04)	06:00 19:57	07:07 (MT 04) 08:00 (MT 04)
31	07:15 17:14	08:25 (MT 01) 08:34 (MT 01)	06:33 17:52	05:47 18:24	06:05 (MT 04) 07:20 (MT 04)	05:59 19:58	07:05 (MT 04) 08:00 (MT 04)
Potential sun hours	295	296	369	400	450	455	
Total, worst case	521	97	1310	439	340	4	
Sun reduction	0,44	0,46	0,44	0,48	0,47	0,54	
Oper. time red.	0,70	0,70	0,70	0,70	0,70	0,70	
Wind dir. red.	0,67	0,65	0,63	0,63	0,57	0,57	
Total reduction	0,21	0,21	0,19	0,21	0,19	0,21	
Total, real	108	20	255	93	63	1	

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: R12 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

July		August		September		October		November		December	
1	05:29 20:39	05:54 20:20	06:16 (MT 08) 10 06:26 (MT 08)	06:25 19 06:25 (MT 08)	07:36 (MT 04) 19 07:55 (MT 04)	06:57 18:44	07:17 (MT 04) 42 07:59 (MT 04)	06:32 16:56	07:08 16:31	07:55 (MT 01) 28 08:23 (MT 01)	
2	05:30 20:39	05:55 20:19	06:17 (MT 08) 8 06:25 (MT 08)	06:27 25 06:25 (MT 08)	07:33 (MT 04) 25 07:58 (MT 04)	06:58 18:42	07:18 (MT 04) 39 07:57 (MT 04)	06:33 16:55	07:09 16:31	07:55 (MT 01) 29 08:24 (MT 01)	
3	05:30 20:39	05:56 20:18	06:18 (MT 08) 7 06:25 (MT 08)	06:28 30 08:00 (MT 04)	07:30 (MT 04) 30 08:00 (MT 04)	06:59 18:41	07:19 (MT 04) 37 07:56 (MT 04)	06:34 16:54	07:10 16:31	07:55 (MT 01) 30 08:25 (MT 01)	
4	05:31 20:39	05:57 20:16	06:19 (MT 08) 5 06:24 (MT 08)	06:29 35 08:02 (MT 04)	07:27 (MT 04) 35 08:02 (MT 04)	07:00 18:39	07:20 (MT 04) 33 07:53 (MT 04)	06:35 16:53	07:11 16:30	07:55 (MT 01) 30 08:25 (MT 01)	
5	05:31 20:39	05:58 20:15	06:20 (MT 08) 3 06:23 (MT 08)	06:30 39 08:03 (MT 04)	07:24 (MT 04) 39 08:03 (MT 04)	07:01 18:37	07:21 (MT 04) 30 07:51 (MT 04)	06:37 16:52	07:12 16:30	07:55 (MT 01) 31 08:26 (MT 01)	
6	05:32 20:39	05:59 20:14	06:21 (MT 08) 1 06:22 (MT 08)	06:31 42 08:04 (MT 04)	07:22 (MT 04) 42 08:04 (MT 04)	07:02 18:36	07:22 (MT 04) 26 07:48 (MT 04)	06:38 16:50	07:13 16:30	07:56 (MT 01) 30 08:26 (MT 01)	
7	05:33 20:38	06:00 20:13	06:00 19:26	06:32 44 08:05 (MT 04)	07:21 (MT 04) 44 08:05 (MT 04)	07:03 18:34	07:23 (MT 04) 22 07:45 (MT 04)	06:39 16:49	07:14 16:30	07:56 (MT 01) 31 08:27 (MT 01)	
8	05:33 20:38	06:01 20:12	06:01 19:24	06:33 47 08:06 (MT 04)	07:19 (MT 04) 47 08:06 (MT 04)	07:04 18:32	07:27 (MT 04) 14 07:41 (MT 04)	06:40 16:48	07:15 16:30	07:56 (MT 01) 32 08:28 (MT 01)	
9	05:34 20:37	06:02 20:10	06:02 19:22	06:34 49 08:07 (MT 04)	07:18 (MT 04) 49 08:07 (MT 04)	07:05 18:31	07:05 16:47	06:42 16:30	07:15 16:30	07:57 (MT 01) 31 08:28 (MT 01)	
10	05:35 20:37	06:03 20:09	06:03 19:21	06:35 50 08:07 (MT 04)	07:17 (MT 04) 50 08:07 (MT 04)	07:06 18:29	07:06 16:46	06:43 16:30	07:16 16:30	07:56 (MT 01) 32 08:28 (MT 01)	
11	05:35 20:37	06:04 20:08	06:04 19:19	06:36 52 08:08 (MT 04)	07:16 (MT 04) 52 08:08 (MT 04)	07:07 18:27	07:07 16:45	06:44 16:30	07:17 16:30	07:56 (MT 01) 33 08:29 (MT 01)	
12	05:36 20:36	06:05 20:06	06:05 19:17	06:37 53 08:08 (MT 04)	07:15 (MT 04) 53 08:08 (MT 04)	07:09 18:26	07:09 16:44	06:45 16:30	07:18 16:30	07:57 (MT 01) 32 08:29 (MT 01)	
13	05:37 20:36	06:06 20:05	06:06 19:15	06:38 55 08:09 (MT 04)	07:14 (MT 04) 55 08:09 (MT 04)	07:10 18:24	07:10 16:43	06:47 16:30	07:19 16:30	07:58 (MT 01) 32 08:30 (MT 01)	
14	05:37 20:35	06:07 (MT 08) 11 06:18 (MT 08)	06:07 19:14	06:39 56 08:09 (MT 04)	07:13 (MT 04) 56 08:09 (MT 04)	07:11 18:23	07:11 16:42	06:48 16:30	07:20 16:30	07:58 (MT 01) 33 08:31 (MT 01)	
15	05:38 20:35	06:08 (MT 08) 15 06:20 (MT 08)	06:08 19:12	06:40 65 08:09 (MT 04)	07:12 (MT 03) 65 08:09 (MT 04)	07:12 18:21	07:12 16:41	06:49 16:30	07:20 16:30	07:58 (MT 01) 33 08:31 (MT 01)	
16	05:39 20:34	06:09 (MT 08) 17 06:21 (MT 08)	06:09 19:10	06:41 68 08:09 (MT 04)	07:13 (MT 03) 68 08:09 (MT 04)	07:13 18:19	07:13 16:40	06:50 16:30	07:21 16:30	07:59 (MT 01) 32 08:31 (MT 01)	
17	05:40 20:33	06:10 (MT 08) 19 06:22 (MT 08)	06:10 19:08	06:42 67 08:09 (MT 04)	07:14 (MT 03) 67 08:09 (MT 04)	07:14 18:18	07:14 16:39	06:51 16:30	07:22 16:30	07:59 (MT 01) 33 08:32 (MT 01)	
18	05:41 20:33	06:11 (MT 08) 19 06:23 (MT 08)	06:11 19:07	06:43 66 08:09 (MT 04)	07:15 (MT 03) 66 08:09 (MT 04)	07:15 18:16	07:15 16:39	06:53 16:30	07:22 16:30	07:59 (MT 01) 33 08:32 (MT 01)	
19	05:42 20:32	06:12 (MT 08) 19 06:23 (MT 08)	06:12 19:05	06:44 65 08:09 (MT 04)	07:16 (MT 03) 65 08:09 (MT 04)	07:16 18:15	07:16 16:38	06:54 16:30	07:23 16:30	08:00 (MT 01) 33 08:33 (MT 01)	
20	05:42 20:31	06:13 (MT 08) 19 06:24 (MT 08)	06:13 19:03	06:45 63 08:08 (MT 04)	07:18 (MT 03) 63 08:08 (MT 04)	07:18 18:13	07:18 16:37	06:55 16:30	07:24 16:30	08:00 (MT 01) 33 08:33 (MT 01)	
21	05:43 20:30	06:14 (MT 08) 18 06:24 (MT 08)	06:14 19:01	06:46 62 08:08 (MT 04)	07:19 (MT 03) 62 08:08 (MT 04)	07:19 18:12	07:19 16:36	06:56 16:30	07:24 16:30	08:01 (MT 01) 33 08:34 (MT 01)	
22	05:44 20:30	06:15 (MT 08) 18 06:25 (MT 08)	06:15 19:00	06:47 60 08:07 (MT 04)	07:20 (MT 03) 60 08:07 (MT 04)	07:20 18:10	07:20 16:36	06:57 16:30	07:25 16:30	08:01 (MT 01) 33 08:34 (MT 01)	
23	05:45 20:29	06:16 (MT 08) 18 06:26 (MT 08)	06:16 18:58	06:48 59 08:07 (MT 04)	07:21 (MT 03) 59 08:07 (MT 04)	07:21 18:09	07:21 16:35	06:59 16:30	07:25 16:30	08:02 (MT 01) 33 08:35 (MT 01)	
24	05:46 20:28	06:17 (MT 08) 17 06:26 (MT 08)	06:17 18:57	06:49 57 08:06 (MT 04)	07:22 (MT 04) 57 08:06 (MT 04)	07:22 18:07	07:22 16:34	07:00 16:30	07:26 16:30	08:02 (MT 01) 33 08:35 (MT 01)	
25	05:47 20:27	06:18 (MT 08) 17 06:27 (MT 08)	06:18 18:56	06:50 55 08:06 (MT 04)	07:23 (MT 04) 55 08:06 (MT 04)	07:23 18:06	07:23 16:34	07:01 16:30	07:26 16:30	08:03 (MT 01) 33 08:36 (MT 01)	
26	05:48 20:26	06:19 (MT 08) 16 06:27 (MT 08)	06:19 18:55	06:51 53 08:05 (MT 04)	07:24 (MT 04) 53 08:05 (MT 04)	07:24 18:04	07:24 16:33	07:02 16:30	07:27 16:30	08:03 (MT 01) 33 08:36 (MT 01)	
27	05:49 20:25	06:20 (MT 08) 15 06:28 (MT 08)	06:20 18:53	06:52 51 08:04 (MT 04)	07:25 (MT 04) 51 08:04 (MT 04)	07:25 18:03	07:25 16:33	07:03 16:30	07:27 16:30	08:04 (MT 01) 32 08:36 (MT 01)	
28	05:50 20:24	06:21 (MT 08) 14 06:29 (MT 08)	06:21 18:51	06:53 49 08:03 (MT 04)	07:26 (MT 04) 49 08:03 (MT 04)	07:26 18:02	07:26 16:33	07:04 16:30	07:27 16:30	08:04 (MT 01) 32 08:36 (MT 01)	
29	05:51 20:23	06:22 (MT 08) 13 06:30 (MT 08)	06:22 18:49	06:54 47 08:02 (MT 04)	07:27 (MT 04) 47 08:02 (MT 04)	07:27 18:01	07:27 16:33	07:05 16:30	07:27 16:30	08:05 (MT 01) 33 08:37 (MT 01)	
30	05:52 20:22	06:23 (MT 08) 12 06:31 (MT 08)	06:23 18:48	06:55 45 08:01 (MT 04)	07:28 (MT 04) 45 08:01 (MT 04)	07:28 18:00	07:28 16:33	07:06 16:30	07:28 16:30	08:05 (MT 01) 33 08:38 (MT 01)	
31	05:53 20:21	06:24 (MT 08) 11 06:32 (MT 08)	06:24 18:46	06:56 44 08:00 (MT 04)	07:29 (MT 04) 44 08:00 (MT 04)	07:29 17:59	07:29 16:33	07:07 16:30	07:28 16:30	08:06 (MT 01) 32 08:38 (MT 01)	
Potential sun hours	461	429	375	344	296	180	285	991	366	169	
Total, worst case	309	40	1528	338	180	991	366	169			
Sun reduction	0,61	0,67	0,58	0,44	0,41	0,36	0,36	0,36			
Oper. time red.	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70			
Wind dir. red.	0,57	0,58	0,63	0,63	0,67	0,67	0,67	0,67			
Total reduction	0,24	0,27	0,26	0,19	0,19	0,17	0,17	0,17			
Total, real	74	11	390	66	34	169	169	169			

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: R13 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June		
1	07:28 16:40 16:41	07:14 17:15 31	08:00 (MT 03) 08:31 (MT 03) 17:50 114	06:37 16:37 (MT 04) 19:25	07:45 (MT 03) 07:46 (MT 03) 16:37 (MT 04) 19:26	05:58 19:58 05:57 19:59	05:29 19:07 (MT 05) 20:28 44	19:07 (MT 05) 19:51 (MT 05)
2	07:28 16:42 16:43	07:13 17:16 35	07:58 (MT 03) 08:33 (MT 03) 17:51 112	06:36 17:51 06:29	07:46 (MT 03) 16:36 (MT 04) 19:27	05:57 19:59 05:56 20:00	05:28 19:51 (MT 05) 20:29 45	19:06 (MT 05) 19:52 (MT 05)
3	07:28 16:42 16:43	07:12 17:17 38	07:57 (MT 03) 08:35 (MT 03) 17:52 109	06:34 17:52 06:32	07:46 (MT 03) 16:36 (MT 04) 19:27	05:56 20:00 05:55 20:01	05:28 19:52 (MT 05) 20:30 46	19:06 (MT 05) 19:52 (MT 05)
4	07:28 16:43 16:44	07:11 17:19 58	07:55 (MT 03) 16:17 (MT 04) 17:54 107	06:32 17:54 06:31	07:47 (MT 03) 16:36 (MT 04) 19:28	05:55 20:01 05:53 20:02	05:27 19:51 (MT 05) 20:31 47	19:05 (MT 05) 19:52 (MT 05)
5	07:28 16:44 16:45	07:10 17:20 67	07:54 (MT 03) 16:21 (MT 04) 17:55 101	06:31 17:55 06:29	07:48 (MT 03) 16:34 (MT 04) 19:30	05:53 20:02 05:52 20:03	05:27 19:53 (MT 05) 20:31 48	19:05 (MT 05) 19:53 (MT 05)
6	07:28 16:45 16:46	07:09 17:25 92	07:53 (MT 03) 16:24 (MT 04) 17:56 98	06:29 17:56 06:28	07:48 (MT 03) 16:33 (MT 04) 19:31	05:52 20:03 05:51 20:04	05:27 19:54 (MT 05) 20:32 49	19:05 (MT 05) 19:54 (MT 05)
7	07:28 16:45 16:46	07:08 17:23 81	07:52 (MT 03) 16:26 (MT 04) 17:57 92	06:28 17:57 06:26	07:50 (MT 03) 16:32 (MT 04) 19:32	05:51 20:04 05:50 20:05	05:26 19:55 (MT 05) 20:33 50	19:05 (MT 05) 19:55 (MT 05)
8	07:28 16:46 16:47	07:06 17:24 87	07:51 (MT 03) 16:27 (MT 04) 17:58 87	06:26 17:58 06:24	07:51 (MT 03) 16:31 (MT 04) 19:33	05:50 20:06 05:48 20:07	05:26 19:54 (MT 05) 20:33 51	19:05 (MT 05) 19:55 (MT 05)
9	07:28 16:48 16:49	07:05 17:25 92	07:50 (MT 03) 16:29 (MT 04) 17:59 81	06:24 17:59 06:23	07:52 (MT 03) 16:29 (MT 04) 19:34	05:48 20:07 05:47 20:08	05:26 19:54 (MT 05) 20:34 51	19:04 (MT 05) 19:55 (MT 05)
10	07:28 16:49 16:50	07:04 17:26 96	07:50 (MT 03) 16:31 (MT 04) 18:01 74	06:23 18:01 06:21	07:54 (MT 03) 16:28 (MT 04) 19:35	05:47 20:08 05:46 20:09	05:26 19:54 (MT 05) 20:34 52	19:04 (MT 05) 19:56 (MT 05)
11	07:27 16:50 16:51	07:03 17:28 100	07:49 (MT 03) 16:32 (MT 04) 18:02 67	06:21 18:02 06:19	07:55 (MT 03) 16:26 (MT 04) 19:36	05:46 20:09 05:45 20:10	05:26 19:57 (MT 05) 20:35 53	19:04 (MT 05) 19:57 (MT 05)
12	07:27 16:51 16:52	07:02 17:29 104	07:48 (MT 03) 16:33 (MT 04) 18:03 55	06:19 18:03 06:18	07:58 (MT 03) 16:23 (MT 04) 19:37	05:45 20:10 05:44 20:11	05:25 19:57 (MT 05) 20:35 53	19:04 (MT 05) 19:57 (MT 05)
13	07:27 16:52 16:53	07:00 17:25 108	07:47 (MT 03) 16:34 (MT 04) 18:04 43	06:18 18:04 06:16	08:02 (MT 03) 16:21 (MT 04) 19:38	05:44 20:11 05:43 20:12	05:25 19:58 (MT 05) 20:36 54	19:04 (MT 05) 19:58 (MT 05)
14	07:27 16:53 16:54	06:59 17:32 110	07:47 (MT 03) 16:35 (MT 04) 18:05 16	06:16 18:05 06:14	16:00 (MT 04) 16:16 (MT 04) 19:39	05:43 20:12 05:42 20:13	05:25 19:58 (MT 05) 20:36 54	19:04 (MT 05) 19:58 (MT 05)
15	07:26 16:54 16:55	06:58 17:33 113	07:46 (MT 03) 16:36 (MT 04) 18:06 113	06:14 18:06 06:13	06:22 19:40 06:21	05:42 20:13 05:41 20:14	05:25 19:58 (MT 05) 20:37 54	19:04 (MT 05) 19:58 (MT 05)
16	07:26 16:55 16:56	06:56 17:34 115	07:46 (MT 03) 16:37 (MT 04) 18:07 115	06:13 18:07 06:11	06:21 19:42 06:19	05:41 20:14 05:40 20:15	05:25 19:59 (MT 05) 20:37 55	19:04 (MT 05) 19:59 (MT 05)
17	07:25 16:56 16:57	06:55 17:35 117	07:46 (MT 03) 16:38 (MT 04) 18:08 117	06:11 18:08 06:09	06:19 19:43 06:17	05:40 20:15 05:39 20:16	05:25 19:59 (MT 05) 20:38 55	19:04 (MT 05) 19:59 (MT 05)
18	07:25 16:58 16:59	06:54 17:37 119	07:45 (MT 03) 16:38 (MT 04) 18:10 119	06:09 18:10 06:08	06:17 19:44 06:16	05:39 20:16 05:38 20:17	05:25 19:59 (MT 05) 20:38 55	19:04 (MT 05) 19:59 (MT 05)
19	07:24 16:59 17:00	06:52 17:38 119	07:45 (MT 03) 16:38 (MT 04) 18:11 119	06:08 18:11 06:06	06:16 19:45 06:14	05:38 20:17 05:37 20:18	05:25 19:59 (MT 05) 20:38 55	19:04 (MT 05) 19:59 (MT 05)
20	07:24 17:00 17:01	06:51 17:39 120	07:45 (MT 03) 16:38 (MT 04) 18:12 120	06:06 18:12 06:04	06:14 19:46 06:13	05:37 20:18 05:36 19:24 (MT 05)	05:26 19:59 (MT 05) 20:39 55	19:04 (MT 05) 19:59 (MT 05)
21	07:23 17:01 17:02	06:49 17:40 121	07:45 (MT 03) 16:39 (MT 04) 18:13 121	06:04 18:13 06:02	06:13 19:47 06:11	05:36 20:19 05:35 19:19 (MT 05)	05:26 20:00 (MT 05) 20:39 55	19:05 (MT 05) 20:00 (MT 05)
22	07:22 17:02 17:03	06:48 17:41 120	07:44 (MT 03) 16:38 (MT 04) 18:14 120	06:02 18:14 06:01	06:11 19:48 06:10	05:35 20:20 05:34 19:17 (MT 05)	05:26 20:00 (MT 05) 20:39 55	19:05 (MT 05) 20:00 (MT 05)
23	07:22 17:04 17:05	06:46 17:43 121	07:45 (MT 03) 16:39 (MT 04) 18:15 121	06:01 18:15 05:59	06:10 19:49 06:08	05:35 20:21 05:34 19:14 (MT 05)	05:26 20:00 (MT 05) 20:39 55	19:05 (MT 05) 20:00 (MT 05)
24	07:21 17:05 17:06	06:45 17:44 122	07:44 (MT 03) 16:39 (MT 04) 18:16 122	05:59 18:16 05:57	06:08 19:50 06:07	05:34 20:22 05:33 19:12 (MT 05)	05:26 20:00 (MT 05) 20:39 55	19:05 (MT 05) 20:00 (MT 05)
25	07:20 17:06 17:07	06:43 17:45 120	07:45 (MT 03) 16:39 (MT 04) 18:17 120	05:57 18:17 05:56	06:07 19:51 06:05	05:33 20:22 05:32 19:12 (MT 05)	05:27 20:01 (MT 05) 20:39 55	19:06 (MT 05) 20:01 (MT 05)
26	07:19 17:07 17:08	06:42 17:46 119	07:44 (MT 03) 16:38 (MT 04) 18:19 119	05:56 18:19 05:54	06:05 19:53 06:04	05:32 20:23 05:32 19:10 (MT 05)	05:27 20:01 (MT 05) 20:40 55	19:06 (MT 05) 20:01 (MT 05)
27	07:19 17:09 17:10	06:40 17:48 119	07:45 (MT 03) 16:39 (MT 04) 18:20 119	05:54 18:20 05:52	06:04 19:54 06:03	05:32 20:24 05:31 19:10 (MT 05)	05:27 20:01 (MT 05) 20:40 54	19:06 (MT 05) 20:00 (MT 05)
28	07:18 17:10 17:11	06:39 17:49 117	07:45 (MT 03) 16:38 (MT 04) 18:21 117	05:52 18:21 06:50	06:03 19:55 06:01	05:31 20:25 05:30 19:08 (MT 05)	05:28 20:01 (MT 05) 20:40 54	19:07 (MT 05) 20:01 (MT 05)
29	07:17 17:11 17:12	08:09 (MT 03) 08:20 (MT 03) 08:05 (MT 03)	06:50 19:22 06:49	06:50 19:22 06:00	06:01 19:56 06:00	05:30 20:26 05:30 19:07 (MT 05)	05:28 20:01 (MT 05) 20:40 54	19:07 (MT 05) 20:01 (MT 05)
30	07:16 17:12 17:13	08:05 (MT 03) 08:25 (MT 03) 08:02 (MT 03)	06:49 19:23 06:47	06:49 19:23 06:28	06:00 19:57 05:29	05:30 20:27 05:29 19:07 (MT 05)	05:29 20:01 (MT 05) 20:40 53	19:08 (MT 05) 20:01 (MT 05)
31	07:15 17:14 17:15	08:02 (MT 03) 08:28 (MT 03)	06:47 19:24	06:28 19:24	05:29 20:28	05:29 19:50 (MT 05)	05:29 20:40 53	19:08 (MT 05) 20:01 (MT 05)
Potential sun hours	295	296	369	400	450	455		
Total, worst case	57	2745	1156		329	1571		
Sun reduction	0,44	0,46	0,44		0,47	0,54		
Oper. time red.	0,70	0,70	0,70		0,70	0,70		
Wind dir. red.	0,67	0,62	0,62		0,66	0,66		
Total reduction	0,21	0,20	0,19		0,22	0,25		
Total, real	12	545	218		71	392		

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: R13 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

		July		August		September		October		November		December		
1	05:29	19:08 (MT 05)	05:54	06:25				06:56	08:39 (MT 03)	06:32	07:19 (MT 03)	07:07		
	20:39	53	20:01 (MT 05)	20:20	19:36			18:44	49	17:01 (MT 04)	16:56	96	16:00 (MT 04)	16:31
2	05:30	19:09 (MT 05)	05:55	06:26				06:58		08:35 (MT 03)	06:33		07:20 (MT 03)	07:09
	20:39	52	20:01 (MT 05)	20:19	19:34			18:42	61	17:03 (MT 04)	16:55	92	15:59 (MT 04)	16:31
3	05:30	19:09 (MT 05)	05:56	06:27				06:59		08:32 (MT 03)	06:34		07:21 (MT 03)	07:10
	20:39	52	20:01 (MT 05)	20:18	19:32			18:41	72	17:05 (MT 04)	16:54	86	15:57 (MT 04)	16:31
4	05:31	19:10 (MT 05)	05:57	06:29				07:00		08:30 (MT 03)	06:35		07:22 (MT 03)	07:11
	20:39	51	20:01 (MT 05)	20:16	19:31			18:39	78	17:06 (MT 04)	16:53	81	15:56 (MT 04)	16:30
5	05:31	19:10 (MT 05)	05:58	06:30				07:01		08:28 (MT 03)	06:37		07:23 (MT 03)	07:12
	20:39	50	20:00 (MT 05)	20:15	19:29			18:37	85	17:07 (MT 04)	16:51	74	15:53 (MT 04)	16:30
6	05:32	19:11 (MT 05)	05:59	06:31				07:02		08:26 (MT 03)	06:38		07:24 (MT 03)	07:13
	20:38	49	20:00 (MT 05)	20:14	19:27			18:36	91	17:08 (MT 04)	16:50	66	15:50 (MT 04)	16:30
7	05:32	19:11 (MT 05)	06:00	06:32				07:03		08:24 (MT 03)	06:39		07:25 (MT 03)	07:14
	20:38	49	20:00 (MT 05)	20:13	19:26			18:34	96	17:08 (MT 04)	16:49	57	15:46 (MT 04)	16:30
8	05:33	19:12 (MT 05)	06:01	06:33				07:04		08:23 (MT 03)	06:40		07:28 (MT 03)	07:14
	20:38	48	20:00 (MT 05)	20:11	19:24			18:32	100	17:09 (MT 04)	16:48	38	08:06 (MT 03)	16:30
9	05:34	19:13 (MT 05)	06:02	06:34				07:05		08:23 (MT 03)	06:42		07:29 (MT 03)	07:15
	20:37	47	20:00 (MT 05)	20:10	19:22			18:31	103	17:10 (MT 04)	16:47	35	08:04 (MT 03)	16:30
10	05:34	19:13 (MT 05)	06:03	06:35				07:06		08:21 (MT 03)	06:43		07:31 (MT 03)	07:16
	20:37	46	19:59 (MT 05)	20:09	19:21			18:29	108	17:10 (MT 04)	16:46	31	08:02 (MT 03)	16:30
11	05:35	19:14 (MT 05)	06:04	06:36				07:07		08:20 (MT 03)	06:44		07:34 (MT 03)	07:17
	20:37	44	19:58 (MT 05)	20:08	19:19			18:27	110	17:10 (MT 04)	16:45	26	08:00 (MT 03)	16:30
12	05:36	19:15 (MT 05)	06:05	06:37				07:08		08:19 (MT 03)	06:45		07:37 (MT 03)	07:18
	20:36	43	19:58 (MT 05)	20:06	19:17			18:26	113	17:10 (MT 04)	16:44	20	07:57 (MT 03)	16:30
13	05:37	19:16 (MT 05)	06:06	06:38				07:10		08:18 (MT 03)	06:46		07:41 (MT 03)	07:19
	20:36	42	19:58 (MT 05)	20:05	19:15			18:24	115	17:10 (MT 04)	16:43	11	07:52 (MT 03)	16:30
14	05:37	19:16 (MT 05)	06:07	06:39				07:11		08:17 (MT 03)	06:48			07:20
	20:35	40	19:56 (MT 05)	20:03	19:14			18:23	117	17:10 (MT 04)	16:42			16:30
15	05:38	19:17 (MT 05)	06:08	06:40				07:12		08:18 (MT 03)	06:49			07:20
	20:34	39	19:56 (MT 05)	20:02	19:12			18:21	117	17:11 (MT 04)	16:41			16:31
16	05:39	19:19 (MT 05)	06:09	06:41				07:13		08:17 (MT 03)	06:50			07:21
	20:34	36	19:55 (MT 05)	20:01	19:10			18:19	119	17:11 (MT 04)	16:40			16:31
17	05:40	19:20 (MT 05)	06:10	06:42				07:14		08:16 (MT 03)	06:51			07:22
	20:33	34	19:54 (MT 05)	19:59	19:08			18:18	120	17:10 (MT 04)	16:39			16:31
18	05:41	19:21 (MT 05)	06:11	06:43				07:15		08:16 (MT 03)	06:53			07:22
	20:33	31	19:52 (MT 05)	19:58	19:07			18:16	120	17:10 (MT 04)	16:38			16:31
19	05:42	19:23 (MT 05)	06:12	06:44				07:16		08:15 (MT 03)	06:54			07:23
	20:32	28	19:51 (MT 05)	19:56	19:05			18:15	122	17:10 (MT 04)	16:38			16:32
20	05:42	19:25 (MT 05)	06:13	06:45				07:18		08:15 (MT 03)	06:55			07:24
	20:31	24	19:49 (MT 05)	19:55	19:03			18:13	121	17:09 (MT 04)	16:37			16:32
21	05:43	19:28 (MT 05)	06:14	06:46				07:19		08:15 (MT 03)	06:56			07:24
	20:30	19	19:47 (MT 05)	19:53	19:01			18:12	121	17:09 (MT 04)	16:36			16:33
22	05:44	19:31 (MT 05)	06:15	06:47				07:20		08:15 (MT 03)	06:57			07:25
	20:29	13	19:44 (MT 05)	19:52	19:00			18:10	120	17:09 (MT 04)	16:36			16:33
23	05:45		06:16	06:48				07:21		08:15 (MT 03)	06:58			07:25
	20:29		19:50	18:58				18:09	119	17:08 (MT 04)	16:35			16:34
24	05:46		06:17	06:49				07:22		08:15 (MT 03)	07:00			07:26
	20:28		19:49	18:56				18:07	117	17:07 (MT 04)	16:34			16:34
25	05:47		06:18	06:50				06:23		07:16 (MT 03)	07:01			07:26
	20:27		19:47	18:54				17:06	116	16:07 (MT 04)	16:34			16:35
26	05:48		06:19	06:51				06:25		07:16 (MT 03)	07:02			07:26
	20:26		19:45	18:53				17:04	114	16:06 (MT 04)	16:33			16:35
27	05:49		06:20	06:52				06:26		07:16 (MT 03)	07:03			07:27
	20:25		19:44	18:51				17:03	112	16:05 (MT 04)	16:33			16:36
28	05:50		06:21	06:53				06:27		07:16 (MT 03)	07:04			07:27
	20:24		19:42	18:49				17:02	110	16:04 (MT 04)	16:32			16:37
29	05:51		06:22	06:54				06:28		07:17 (MT 03)	07:05			07:27
	20:23		19:41	18:48	12	16:43 (MT 04)	17:00	108	16:04 (MT 04)	16:32				16:37
30	05:52		06:23	06:55				06:29		07:18 (MT 03)	07:06			07:28
	20:22		19:39	18:46	35	16:59 (MT 04)	16:59	103	16:02 (MT 04)	16:32				16:38
31	05:53		06:24					06:31		07:18 (MT 03)				07:28
	20:21		19:37					16:58	100	16:01 (MT 04)				16:39
Potential sun hours	461		429	375				344		296				285
Total, worst case	890			47				3257		713				
Sun reduction	0,61			0,58				0,44		0,41				
Oper. time red.	0,70			0,70				0,70		0,70				
Wind dir. red.	0,66			0,59				0,62		0,64				
Total reduction	0,28			0,24				0,19		0,18				
Total, real	250			11				612		128				

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: R17 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June		
1	07:28	15:39 (MT 04)	07:14	15:29 (MT 08)	06:37	06:45	18:05 (MT 09)	05:58			05:29	06:47 (69)	
	16:40	21 16:00 (MT 04)	17:15	43 16:12 (MT 08)	17:50	19:25	41 18:46 (MT 09)	19:58			20:28	36 07:23 (69)	
2	07:28	15:39 (MT 04)	07:13	15:29 (MT 08)	06:36	06:44	18:03 (MT 09)	05:57			05:28	06:46 (69)	
	16:41	22 16:01 (MT 04)	17:16	44 16:13 (MT 08)	17:51	19:26	44 18:47 (MT 09)	19:59			20:29	37 07:23 (69)	
3	07:28	15:39 (MT 04)	07:12	15:29 (MT 08)	06:34	06:42	18:03 (MT 09)	05:56			05:28	06:47 (69)	
	16:42	22 16:01 (MT 04)	17:17	44 16:13 (MT 08)	17:52	19:27	45 18:48 (MT 09)	20:00			20:30	36 07:23 (69)	
4	07:28	15:40 (MT 04)	07:11	15:29 (MT 08)	06:32	06:40	18:01 (MT 09)	05:54			05:27	06:47 (69)	
	16:43	22 16:02 (MT 04)	17:19	45 16:14 (MT 08)	17:53	19:28	51 19:07 (MT 07)	20:01			20:31	35 07:22 (69)	
5	07:28	15:40 (MT 04)	07:10	15:29 (MT 08)	06:31	06:39	18:00 (MT 09)	05:53			05:27	06:47 (69)	
	16:43	22 16:02 (MT 04)	17:20	45 16:14 (MT 08)	17:55	19:29	57 19:08 (MT 07)	20:02			20:31	36 07:23 (69)	
6	07:28	15:41 (MT 04)	07:09	15:29 (MT 08)	06:29	06:37	18:00 (MT 09)	05:52			05:27	06:48 (69)	
	16:44	22 16:03 (MT 04)	17:21	46 16:15 (MT 08)	17:56	19:31	61 19:09 (MT 07)	20:03			20:32	35 07:23 (69)	
7	07:28	15:41 (MT 04)	07:08	15:29 (MT 08)	06:28	06:35	17:59 (MT 09)	05:51			05:26	06:48 (69)	
	16:45	23 16:04 (MT 04)	17:23	46 16:15 (MT 08)	17:57	19:32	65 19:10 (MT 07)	20:04			20:33	35 07:23 (69)	
8	07:28	15:41 (MT 04)	07:06	15:29 (MT 08)	06:26	06:34	17:58 (MT 09)	05:50			05:26	06:48 (69)	
	16:46	22 16:03 (MT 04)	17:24	45 16:14 (MT 08)	17:58	19:33	67 19:11 (MT 07)	20:06			20:33	34 07:22 (69)	
9	07:28	15:42 (MT 04)	07:05	15:29 (MT 08)	06:24	06:32	17:58 (MT 09)	05:48		06:57 (69)	05:26	06:48 (69)	
	16:47	22 16:04 (MT 04)	17:25	46 16:15 (MT 08)	17:59	19:34	70 19:12 (MT 07)	20:07	13	07:10 (69)	20:34	35 07:23 (69)	
10	07:28	15:42 (MT 04)	07:04	15:30 (MT 08)	06:23	06:30	17:58 (MT 09)	05:47		06:55 (69)	05:26	06:49 (69)	
	16:48	23 16:05 (MT 04)	17:26	45 16:15 (MT 08)	18:00	19:35	71 19:13 (MT 07)	20:08	17	07:12 (69)	20:34	34 07:23 (69)	
11	07:27	15:42 (MT 04)	07:03	15:30 (MT 08)	06:21	06:29	17:57 (MT 09)	05:46		06:53 (69)	05:26	06:49 (69)	
	16:50	22 16:04 (MT 04)	17:28	45 16:15 (MT 08)	18:02	19:36	74 19:14 (MT 07)	20:09	21	07:14 (69)	20:35	34 07:23 (69)	
12	07:27	15:43 (MT 04)	07:02	15:30 (MT 08)	06:19	06:27	17:58 (MT 09)	05:45		06:52 (69)	05:25	06:50 (69)	
	16:51	22 16:05 (MT 04)	17:29	49 16:52 (MT 05)	18:03	19:37	74 19:15 (MT 07)	20:10	23	07:15 (69)	20:35	33 07:23 (69)	
13	07:27	15:44 (MT 04)	07:00	15:31 (MT 08)	06:18	06:25	17:57 (MT 09)	05:44		06:50 (69)	05:25	06:50 (69)	
	16:52	21 16:05 (MT 04)	17:30	51 16:53 (MT 05)	18:04	19:38	75 19:16 (MT 07)	20:11	27	07:17 (69)	20:36	33 07:23 (69)	
14	07:27	15:44 (MT 04)	06:59	15:32 (MT 08)	06:16	06:24	17:58 (MT 09)	05:43		06:49 (69)	05:25	06:50 (69)	
	16:53	21 16:05 (MT 04)	17:31	52 16:55 (MT 05)	18:05	19:39	74 19:16 (MT 07)	20:12	28	07:17 (69)	20:36	33 07:23 (69)	
15	07:26	15:45 (MT 04)	06:58	15:32 (MT 08)	06:14	06:22	17:57 (MT 09)	05:42		06:49 (69)	05:25	06:51 (69)	
	16:54	21 16:06 (MT 04)	17:33	54 16:56 (MT 05)	18:06	19:40	73 19:15 (MT 07)	20:13	29	07:18 (69)	20:37	32 07:23 (69)	
16	07:26	15:46 (MT 04)	06:56	15:34 (MT 08)	06:13	06:21	17:57 (MT 09)	05:41		06:48 (69)	05:25	06:51 (69)	
	16:55	19 16:05 (MT 04)	17:34	54 16:58 (MT 05)	18:07	19:42	71 19:14 (MT 07)	20:14	31	07:19 (69)	20:37	33 07:24 (69)	
17	07:25	15:45 (MT 08)	06:55	15:34 (MT 08)	06:11	06:19	17:58 (MT 09)	05:40		06:47 (69)	05:25	06:51 (69)	
	16:56	20 16:05 (MT 04)	17:35	54 16:59 (MT 05)	18:08	19:43	68 19:13 (MT 07)	20:15	32	07:19 (69)	20:38	33 07:24 (69)	
18	07:25	15:40 (MT 08)	06:54	15:36 (MT 08)	06:09	06:17	17:58 (MT 09)	05:39		06:47 (69)	05:25	06:51 (69)	
	16:57	25 16:05 (MT 04)	17:36	54 17:02 (MT 05)	18:10	19:44	65 19:11 (MT 07)	20:16	34	07:21 (69)	20:38	33 07:24 (69)	
19	07:24	15:38 (MT 08)	06:52	15:38 (MT 08)	06:07	06:16	17:59 (MT 09)	05:38		06:47 (69)	05:25	06:51 (69)	
	16:59	26 16:04 (MT 04)	17:38	53 17:04 (MT 05)	18:11	19:45	60 19:10 (MT 07)	20:17	34	07:21 (69)	20:38	33 07:24 (69)	
20	07:24	15:37 (MT 08)	06:51	15:39 (MT 08)	06:06	06:14	17:59 (MT 09)	05:37		06:46 (69)	05:25	06:51 (69)	
	17:00	27 16:04 (MT 04)	17:39	52 17:05 (MT 05)	18:12	19:46	55 19:07 (MT 07)	20:18	35	07:21 (69)	20:39	33 07:24 (69)	
21	07:23	15:35 (MT 08)	06:49	15:42 (MT 08)	06:04	06:13	18:01 (MT 09)	05:36		06:46 (69)	05:26	06:52 (69)	
	17:01	27 16:02 (MT 04)	17:40	47 17:06 (MT 05)	18:13	19:47	44 19:04 (MT 07)	20:19	35	07:21 (69)	20:39	32 07:24 (69)	
22	07:22	15:34 (MT 08)	06:48	15:45 (MT 08)	06:02	06:11	18:01 (MT 09)	05:35		06:45 (69)	05:26	06:52 (69)	
	17:02	28 16:02 (MT 08)	17:41	40 17:05 (MT 05)	18:14	19:48	38 18:39 (MT 09)	20:20	36	07:21 (69)	20:39	33 07:25 (69)	
23	07:22	15:34 (MT 08)	06:46	15:51 (MT 08)	06:01	06:10	18:02 (MT 09)	05:35		06:46 (69)	05:26	06:52 (69)	
	17:04	30 16:04 (MT 08)	17:43	27 17:05 (MT 05)	18:15	19:49	37 18:39 (MT 09)	20:21	36	07:22 (69)	20:39	33 07:25 (69)	
24	07:21	15:33 (MT 08)	06:45	16:42 (MT 05)	05:59	06:08	18:03 (MT 09)	05:34		06:46 (69)	05:26	06:52 (69)	
	17:05	32 16:05 (MT 08)	17:44	21 17:03 (MT 05)	18:16	19:50	33 18:36 (MT 09)	20:22	36	07:22 (69)	20:39	33 07:25 (69)	
25	07:20	15:32 (MT 08)	06:43	16:43 (MT 05)	05:57	06:07	18:05 (MT 09)	05:33		06:45 (69)	05:27	06:53 (69)	
	17:06	34 16:06 (MT 08)	17:45	20 17:03 (MT 05)	18:17	19:51	30 18:35 (MT 09)	20:22	37	07:22 (69)	20:39	33 07:26 (69)	
26	07:19	15:31 (MT 08)	06:42	16:44 (MT 05)	05:56	06:05	18:07 (MT 09)	05:32		06:46 (69)	05:27	06:53 (69)	
	17:07	36 16:07 (MT 08)	17:46	17 17:01 (MT 05)	18:18	16 17:35 (MT 09)	19:53	27 18:34 (MT 09)	20:23	37	07:23 (69)	20:40	33 07:26 (69)
27	07:19	15:31 (MT 08)	06:40	16:47 (MT 05)	05:54	06:04	18:09 (MT 09)	05:32		06:46 (69)	05:27	06:53 (69)	
	17:09	37 16:08 (MT 08)	17:48	12 16:59 (MT 05)	18:20	23 17:38 (MT 09)	19:54	22 18:31 (MT 09)	20:24	36	07:22 (69)	20:40	33 07:26 (69)
28	07:18	15:30 (MT 08)	06:39	16:51 (MT 05)	05:52	06:03	18:12 (MT 09)	05:31		06:45 (69)	05:28	06:54 (69)	
	17:10	39 16:09 (MT 08)	17:49	3 16:54 (MT 05)	18:21	28 17:41 (MT 09)	19:55	16 18:28 (MT 09)	20:25	37	07:22 (69)	20:40	32 07:26 (69)
29	07:17	15:30 (MT 08)		06:50		06:01	18:10 (MT 09)	05:30		06:46 (69)	05:28	06:53 (69)	
	17:11	40 16:10 (MT 08)		19:22	33 18:43 (MT 09)	19:56	4 18:22 (MT 09)	20:26	37	07:23 (69)	20:40	33 07:26 (69)	
30	07:16	15:29 (MT 08)		06:49		06:00	18:08 (MT 09)	05:30		06:46 (69)	05:29	06:54 (69)	
	17:12	42 16:11 (MT 08)		19:23	36 18:44 (MT 09)	19:57		20:27	36	07:22 (69)	20:40	33 07:27 (69)	
31	07:15	15:29 (MT 08)		06:47		06:00	18:07 (MT 09)	05:29		06:46 (69)			
	17:14	43 16:12 (MT 08)		19:24	38 18:45 (MT 09)			20:28	37	07:23 (69)			
Potential sun hours	295		296		369		400		450		455		
Total, worst case	833		1154		174		1512		724		1011		
Sun reduction	0,44		0,46		0,44		0,48		0,47		0,54		
Oper. time red.	0,70		0,70		0,70		0,70		0,70		0,70		
Wind dir. red.	0,55		0,56		0,62		0,62		0,56		0,56		
Total reduction	0,17		0,18		0,19		0,21		0,18		0,21		
Total, real	141		205		33		312		131		212		

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: R17 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December						
1	05:29	06:53 (69)	05:54	07:03 (69)	06:25	17:56 (MT 09)	06:56	06:32	14:59 (MT 08)	07:07	15:24 (MT 04)	
	20:39	34 07:27 (69)	20:20	23 07:26 (69)	19:36	74 19:13 (MT 07)	18:44	16:56	45 15:44 (MT 08)	16:31	22 15:46 (MT 04)	
2	05:30	06:54 (69)	05:55	07:04 (69)	06:26	17:56 (MT 09)	06:58	06:33	14:59 (MT 08)	07:09	15:25 (MT 04)	
	20:39	34 07:28 (69)	20:19	20 07:24 (69)	19:34	71 19:11 (MT 07)	18:42	16:55	45 15:44 (MT 08)	16:31	23 15:48 (MT 04)	
3	05:30	06:54 (69)	05:56	07:06 (69)	06:27	17:55 (MT 09)	06:59	06:34	14:58 (MT 08)	07:10	15:26 (MT 04)	
	20:39	34 07:28 (69)	20:18	16 07:22 (69)	19:32	70 19:09 (MT 07)	18:41	16:54	46 15:44 (MT 08)	16:31	22 15:48 (MT 04)	
4	05:31	06:54 (69)	05:57	07:09 (69)	06:28	17:55 (MT 09)	07:00	06:35	14:59 (MT 08)	07:11	15:26 (MT 04)	
	20:39	35 07:29 (69)	20:16	10 07:19 (69)	19:31	67 19:08 (MT 07)	18:39	16:53	46 15:45 (MT 08)	16:30	22 15:48 (MT 04)	
5	05:31	06:54 (69)	05:58		06:29	17:55 (MT 09)	07:01	06:37	14:59 (MT 08)	07:12	15:26 (MT 04)	
	20:39	34 07:28 (69)	20:15		19:29	65 19:06 (MT 07)	18:37	16:51	45 15:44 (MT 08)	16:30	23 15:49 (MT 04)	
6	05:32	06:54 (69)	05:59		06:31	17:55 (MT 09)	07:02	06:38	14:59 (MT 08)	07:13	15:27 (MT 04)	
	20:38	35 07:29 (69)	20:14		19:27	61 19:04 (MT 07)	18:36	16:50	45 15:44 (MT 08)	16:30	22 15:49 (MT 04)	
7	05:32	06:54 (69)	06:00		06:32	17:55 (MT 09)	07:03	06:39	14:58 (MT 08)	07:14	15:27 (MT 04)	
	20:38	35 07:29 (69)	20:13		19:26	57 19:03 (MT 07)	18:34	16:49	46 15:44 (MT 08)	16:30	22 15:49 (MT 04)	
8	05:33	06:54 (69)	06:01		06:33	17:55 (MT 09)	07:04	06:40	14:59 (MT 08)	07:14	15:28 (MT 04)	
	20:38	35 07:29 (69)	20:11		19:24	51 19:01 (MT 07)	18:32	16:48	45 15:44 (MT 08)	16:30	22 15:50 (MT 04)	
9	05:34	06:54 (69)	06:02		06:34	17:56 (MT 09)	07:05	06:42	14:59 (MT 08)	07:15	15:27 (MT 04)	
	20:37	36 07:30 (69)	20:10		19:22	45 18:41 (MT 09)	18:31	16:47	45 15:44 (MT 08)	16:30	22 15:49 (MT 04)	
10	05:34	06:54 (69)	06:03		06:35	17:56 (MT 09)	07:06	06:43	15:00 (MT 08)	07:16	15:28 (MT 04)	
	20:37	36 07:30 (69)	20:09		19:20	44 18:40 (MT 09)	18:29	16:46	43 15:43 (MT 08)	16:30	22 15:50 (MT 04)	
11	05:35	06:54 (69)	06:04		06:36	17:57 (MT 09)	07:07	06:44	15:01 (MT 08)	07:17	15:29 (MT 04)	
	20:37	36 07:30 (69)	20:08		19:19	41 18:38 (MT 09)	18:27	16:45	42 15:43 (MT 08)	16:30	21 15:50 (MT 04)	
12	05:36	06:54 (69)	06:05		06:37	17:58 (MT 09)	07:08	06:45	15:01 (MT 08)	07:18	15:30 (MT 04)	
	20:36	37 07:31 (69)	20:06		19:17	39 18:37 (MT 09)	18:26	16:44	42 15:43 (MT 08)	16:30	21 15:51 (MT 04)	
13	05:37	06:55 (69)	06:06		06:38	17:59 (MT 09)	07:10	06:46	15:02 (MT 08)	07:19	15:30 (MT 04)	
	20:36	36 07:31 (69)	20:05		19:15	36 18:35 (MT 09)	18:24	16:43	40 15:42 (MT 08)	16:30	21 15:51 (MT 04)	
14	05:37	06:54 (69)	06:07	18:23 (MT 09)	06:39	18:00 (MT 09)	07:11	06:48	15:03 (MT 08)	07:20	15:31 (MT 04)	
	20:35	37 07:31 (69)	20:03	9 18:32 (MT 09)	19:14	33 18:33 (MT 09)	18:22	9 17:20 (MT 05)	16:42	39 15:42 (MT 08)	16:30	21 15:52 (MT 04)
15	05:38	06:55 (69)	06:08	18:19 (MT 09)	06:40	18:01 (MT 09)	07:12	06:49	15:04 (MT 08)	07:20	15:31 (MT 04)	
	20:34	36 07:31 (69)	20:02	17 18:36 (MT 09)	19:12	30 18:31 (MT 09)	18:21	14 17:31 (MT 05)	16:41	37 15:41 (MT 08)	16:30	20 15:51 (MT 04)
16	05:39	06:55 (69)	06:09	18:16 (MT 09)	06:41	18:04 (MT 09)	07:13	06:50	15:04 (MT 08)	07:21	15:32 (MT 04)	
	20:34	37 07:32 (69)	20:01	23 18:39 (MT 09)	19:10	24 18:28 (MT 09)	18:19	18 17:34 (MT 05)	16:40	36 15:40 (MT 08)	16:31	20 15:52 (MT 04)
17	05:40	06:55 (69)	06:10	18:13 (MT 09)	06:42	18:07 (MT 09)	07:14	06:51	15:06 (MT 08)	07:22	15:33 (MT 04)	
	20:33	37 07:32 (69)	19:59	28 18:41 (MT 09)	19:08	17 18:24 (MT 09)	18:18	20 17:34 (MT 05)	16:39	34 15:40 (MT 08)	16:31	19 15:52 (MT 04)
18	05:41	06:55 (69)	06:11	18:11 (MT 09)	06:43	18:11 (MT 09)	07:15	06:53	15:07 (MT 08)	07:22	15:33 (MT 04)	
	20:33	36 07:31 (69)	19:58	31 18:42 (MT 09)	19:07	22 18:16	18:16	22 17:35 (MT 05)	16:38	32 15:39 (MT 08)	16:31	19 15:52 (MT 04)
19	05:41	06:55 (69)	06:12	18:10 (MT 09)	06:44	18:10 (MT 09)	07:16	06:54	15:08 (MT 08)	07:23	15:33 (MT 04)	
	20:32	36 07:31 (69)	19:56	33 18:43 (MT 09)	19:05	33 18:15	18:15	33 17:35 (MT 05)	16:38	30 15:38 (MT 08)	16:32	20 15:53 (MT 04)
20	05:42	06:55 (69)	06:13	18:08 (MT 09)	06:45	18:08 (MT 09)	07:17	06:55	15:09 (MT 08)	07:24	15:33 (MT 04)	
	20:31	37 07:32 (69)	19:55	36 18:44 (MT 09)	19:03	42 18:13	18:13	42 17:35 (MT 05)	16:37	28 15:37 (MT 08)	16:32	20 15:53 (MT 04)
21	05:43	06:56 (69)	06:14	18:06 (MT 09)	06:46	18:06 (MT 09)	07:19	06:56	15:11 (MT 08)	07:24	15:34 (MT 04)	
	20:30	36 07:32 (69)	19:53	39 18:45 (MT 09)	19:01	49 18:12	18:12	49 17:36 (MT 05)	16:36	27 15:38 (MT 08)	16:33	20 15:54 (MT 04)
22	05:44	06:56 (69)	06:15	18:05 (MT 09)	06:47	18:05 (MT 09)	07:20	06:57	15:13 (MT 08)	07:25	15:34 (MT 04)	
	20:29	36 07:32 (69)	19:52	46 19:09 (MT 07)	19:00	52 18:10	18:10	52 17:35 (MT 05)	16:36	27 15:40 (MT 08)	16:33	20 15:54 (MT 04)
23	05:45	06:57 (69)	06:16	18:04 (MT 09)	06:48	18:04 (MT 09)	07:21	06:58	15:15 (MT 08)	07:25	15:35 (MT 04)	
	20:29	35 07:32 (69)	19:50	56 19:13 (MT 07)	18:58	53 18:09	18:09	53 17:33 (MT 05)	16:35	26 15:41 (MT 08)	16:34	20 15:55 (MT 04)
24	05:46	06:57 (69)	06:17	18:03 (MT 09)	06:49	18:03 (MT 09)	07:22	06:59	15:17 (MT 08)	07:26	15:35 (MT 04)	
	20:28	35 07:32 (69)	19:49	60 19:14 (MT 07)	18:56	55 18:07	18:07	55 17:31 (MT 05)	16:34	25 15:42 (MT 08)	16:34	20 15:55 (MT 04)
25	05:47	06:57 (69)	06:18	18:02 (MT 09)	06:50	18:02 (MT 09)	07:23	07:01	15:23 (MT 08)	07:26	15:36 (MT 04)	
	20:27	33 07:30 (69)	19:47	65 19:15 (MT 07)	18:54	55 17:06	17:06	55 16:30 (MT 05)	16:34	20 15:43 (MT 08)	16:35	20 15:56 (MT 04)
26	05:48	06:57 (69)	06:19	18:01 (MT 09)	06:51	18:01 (MT 09)	07:24	07:02	15:25 (MT 08)	07:26	15:37 (MT 04)	
	20:26	33 07:30 (69)	19:45	68 19:16 (MT 07)	18:53	55 17:04	17:04	55 16:28 (MT 05)	16:33	19 15:44 (MT 08)	16:35	19 15:56 (MT 04)
27	05:49	06:58 (69)	06:20	18:00 (MT 09)	06:52	18:00 (MT 09)	07:25	07:03	15:24 (MT 08)	07:27	15:37 (MT 04)	
	20:25	32 07:30 (69)	19:44	71 19:17 (MT 07)	18:51	54 17:03	17:03	54 16:26 (MT 05)	16:33	21 15:45 (MT 08)	16:36	20 15:57 (MT 04)
28	05:50	06:59 (69)	06:21	17:59 (MT 09)	06:53	17:59 (MT 09)	07:26	07:04	15:24 (MT 08)	07:27	15:37 (MT 04)	
	20:24	30 07:29 (69)	19:42	73 19:17 (MT 07)	18:49	52 17:02	17:02	52 16:24 (MT 05)	16:32	21 15:45 (MT 08)	16:37	20 15:57 (MT 04)
29	05:51	06:59 (69)	06:22	17:58 (MT 09)	06:54	17:58 (MT 09)	07:27	07:05	15:24 (MT 08)	07:27	15:38 (MT 04)	
	20:23	29 07:28 (69)	19:41	74 19:16 (MT 07)	18:47	50 17:00	17:00	50 16:23 (MT 05)	16:32	21 15:45 (MT 08)	16:37	21 15:59 (MT 04)
30	05:52	07:00 (69)	06:23	17:57 (MT 09)	06:55	17:57 (MT 09)	07:28	07:06	15:24 (MT 08)	07:28	15:38 (MT 04)	
	20:22	28 07:28 (69)	19:39	75 19:16 (MT 07)	18:46	48 16:59	16:59	48 16:21 (MT 05)	16:31	22 15:46 (MT 08)	16:38	21 15:59 (MT 04)
31	05:53	07:01 (69)	06:24	17:56 (MT 09)		46 16:58	16:58	46 15:44 (MT 08)		22 16:39	22 15:38 (MT 04)	
	20:21	26 07:27 (69)	19:37	75 19:14 (MT 07)		45 16:58	16:58	45 15:44 (MT 08)		22 16:39	22 16:00 (MT 04)	
Potential sun hours	461	429	375	344	296	285	647					
Total, worst case	1066	948	825	726	1040	647						
Sun reduction	0,61	0,67	0,58	0,44	0,41	0,36						
Oper. time red.	0,70	0,70	0,70	0,70	0,70	0,70						
Wind dir. red.	0,56	0,61	0,62	0,56	0,55	0,55						
Total reduction	0,24	0,29	0,25	0,17	0,16	0,14						
Total, real	252	271	205	123	162	90						

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: R19 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June				
1	07:28	08:56 (MT 09)	07:14	09:05 (MT 09)	06:37	14:43 (MT 07)	06:45	05:58	06:38 (MT 10)	05:29					
	16:40	52	09:48 (MT 09)	17:15	154	16:18 (MT 06)	17:50	54	15:37 (MT 07)	19:25	19:58	34	07:12 (MT 10)	20:28	
2	07:28	08:56 (MT 09)	07:13	09:06 (MT 09)	06:36	14:45 (MT 07)	06:44	05:57	06:38 (MT 10)	05:28					
	16:41	53	09:49 (MT 09)	17:16	154	16:19 (MT 06)	17:51	51	15:36 (MT 07)	19:26	19:59	35	07:13 (MT 10)	20:29	
3	07:28	08:56 (MT 09)	07:12	09:07 (MT 09)	06:34	14:46 (MT 07)	06:42	05:56	06:37 (MT 10)	05:28					
	16:42	53	09:49 (MT 09)	17:17	155	16:20 (MT 06)	17:52	48	15:34 (MT 07)	19:27	20:00	35	07:12 (MT 10)	20:30	
4	07:28	08:56 (MT 09)	07:11	09:08 (MT 09)	06:32	14:49 (MT 07)	06:40	05:55	06:37 (MT 10)	05:27					
	16:43	54	09:50 (MT 09)	17:19	154	16:20 (MT 06)	17:54	44	15:33 (MT 07)	19:28	20:01	36	07:13 (MT 10)	20:31	
5	07:28	08:57 (MT 09)	07:10	09:09 (MT 09)	06:31	14:51 (MT 07)	06:39	05:53	06:37 (MT 10)	05:27					
	16:44	54	09:51 (MT 09)	17:20	154	16:21 (MT 06)	17:55	40	15:31 (MT 07)	19:30	20:02	36	07:13 (MT 10)	20:31	
6	07:28	08:57 (MT 09)	07:09	09:11 (MT 09)	06:29	14:54 (MT 07)	06:37	05:52	06:37 (MT 10)	05:27					
	16:44	66	15:05 (MT 07)	17:21	152	16:22 (MT 06)	17:56	34	15:28 (MT 07)	19:31	20:03	36	07:13 (MT 10)	20:32	
7	07:28	08:57 (MT 09)	07:08	09:12 (MT 09)	06:28	14:58 (MT 07)	06:35	05:51	06:37 (MT 10)	05:26					
	16:45	72	15:08 (MT 07)	17:23	150	16:23 (MT 06)	17:57	27	15:25 (MT 07)	19:32	20:05	36	07:13 (MT 10)	20:33	
8	07:28	08:57 (MT 09)	07:07	09:13 (MT 09)	06:26	15:02 (MT 07)	06:34	05:50	06:37 (MT 10)	05:26					
	16:46	77	15:10 (MT 07)	17:24	147	16:22 (MT 06)	17:58	19	15:21 (MT 07)	19:33	20:06	36	07:13 (MT 10)	20:33	
9	07:28	08:57 (MT 09)	07:05	09:15 (MT 09)	06:24		06:32	05:48	06:36 (MT 10)	05:26					
	16:47	82	15:13 (MT 07)	17:25	144	16:23 (MT 06)	17:59		20:07	36	07:12 (MT 10)	20:34			
10	07:28	08:58 (MT 09)	07:04	09:18 (MT 09)	06:23		06:30	05:47	06:36 (MT 10)	05:26					
	16:49	85	15:15 (MT 07)	17:26	139	16:23 (MT 06)	18:01		20:08	35	07:11 (MT 10)	20:34			
11	07:28	08:58 (MT 09)	07:03	09:21 (MT 09)	06:21		06:29	05:46	06:37 (MT 10)	05:26					
	16:50	89	15:17 (MT 07)	17:28	132	16:23 (MT 06)	18:02		20:09	34	07:11 (MT 10)	20:35			
12	07:27	08:58 (MT 09)	07:02	09:25 (MT 09)	06:19		06:27	05:45	06:37 (MT 10)	05:25					
	16:51	92	15:19 (MT 07)	17:29	123	16:23 (MT 06)	18:03		20:10	34	07:11 (MT 10)	20:36			
13	07:27	08:59 (MT 09)	07:00	14:31 (MT 07)	06:18		06:25	05:44	06:37 (MT 10)	05:25					
	16:52	94	15:21 (MT 07)	17:30	112	16:23 (MT 06)	18:04		20:11	33	07:10 (MT 10)	20:36			
14	07:27	08:58 (MT 09)	06:59	14:31 (MT 07)	06:16		06:24	05:43	06:38 (MT 10)	05:25					
	16:53	97	15:22 (MT 07)	17:32	112	16:23 (MT 06)	18:05		20:12	32	07:10 (MT 10)	20:36			
15	07:26	08:59 (MT 09)	06:58	14:31 (MT 07)	06:14		06:22	05:42	06:38 (MT 10)	05:25					
	16:54	100	15:24 (MT 07)	17:33	111	16:22 (MT 06)	18:06		20:13	31	07:09 (MT 10)	20:37			
16	07:26	08:59 (MT 09)	06:56	14:32 (MT 07)	06:13		06:21	05:41	06:39 (MT 10)	05:25					
	16:55	102	15:25 (MT 07)	17:34	109	16:21 (MT 06)	18:07		20:14	29	07:08 (MT 10)	20:37			
17	07:25	09:00 (MT 09)	06:55	14:32 (MT 07)	06:11		06:19	05:40	06:40 (MT 10)	05:25					
	16:56	104	15:27 (MT 07)	17:35	108	16:21 (MT 06)	18:09		20:15	27	07:07 (MT 10)	20:38			
18	07:25	08:59 (MT 09)	06:54	14:32 (MT 07)	06:09		06:17	05:39	06:41 (MT 10)	05:25					
	16:58	107	15:28 (MT 07)	17:37	106	16:20 (MT 06)	18:10		20:16	26	07:07 (MT 10)	20:38			
19	07:24	09:00 (MT 09)	06:52	14:33 (MT 07)	06:08		06:16	05:38	06:42 (MT 10)	05:25					
	16:59	110	15:30 (MT 07)	17:38	102	16:19 (MT 06)	18:11		20:17	24	07:06 (MT 10)	20:38			
20	07:24	09:00 (MT 09)	06:51	14:33 (MT 07)	06:06		06:14	05:37	06:43 (MT 10)	05:26					
	17:00	112	15:31 (MT 07)	17:39	98	16:17 (MT 06)	18:12		20:18	22	07:05 (MT 10)	20:39			
21	07:23	09:00 (MT 09)	06:49	14:34 (MT 07)	06:04		06:13	05:36	06:44 (MT 10)	05:26					
	17:01	114	15:32 (MT 07)	17:40	94	16:16 (MT 06)	18:13		20:19	20	07:04 (MT 10)	20:39			
22	07:22	09:00 (MT 09)	06:48	14:35 (MT 07)	06:02		06:11	05:35	06:45 (MT 10)	05:26					
	17:02	115	15:33 (MT 07)	17:41	87	16:13 (MT 06)	18:14		19:48	3	06:58 (MT 10)	20:20	17	07:02 (MT 10)	20:39
23	07:22	09:01 (MT 09)	06:46	14:36 (MT 07)	06:01		06:10	05:34	06:50 (MT 10)	05:26					
	17:04	117	15:35 (MT 07)	17:43	79	16:10 (MT 06)	18:15		19:49	14	07:04 (MT 10)	20:21	13	07:01 (MT 10)	20:39
24	07:21	09:02 (MT 09)	06:45	14:37 (MT 07)	05:59		06:08	05:33	06:47 (MT 10)	05:24					
	17:05	117	15:36 (MT 07)	17:44	66	15:43 (MT 07)	18:16		19:50	20	07:07 (MT 10)	20:22	8	06:58 (MT 10)	20:39
25	07:20	09:02 (MT 09)	06:43	14:38 (MT 07)	05:57		06:07	05:33	06:45 (MT 10)	05:27					
	17:06	120	16:02 (MT 06)	17:45	64	15:42 (MT 07)	18:17		19:51	23	07:08 (MT 10)	20:23		20:40	
26	07:19	09:02 (MT 09)	06:42	14:39 (MT 07)	05:56		06:05	05:32	06:43 (MT 10)	05:27					
	17:07	132	16:07 (MT 06)	17:46	62	15:41 (MT 07)	18:19		19:53	26	07:09 (MT 10)	20:23		20:40	
27	07:19	09:02 (MT 09)	06:40	14:41 (MT 07)	05:54		06:04	05:32	06:41 (MT 10)	05:27					
	17:09	139	16:10 (MT 06)	17:48	60	15:41 (MT 07)	18:20		19:54	29	07:10 (MT 10)	20:24		20:40	
28	07:18	09:03 (MT 09)	06:39	14:42 (MT 07)	05:52		06:03	05:31	06:41 (MT 10)	05:28					
	17:10	143	16:12 (MT 06)	17:49	57	15:39 (MT 07)	18:21		19:55	30	07:11 (MT 10)	20:25		20:40	
29	07:17	09:03 (MT 09)			06:50		06:01	05:30	06:40 (MT 10)	05:28					
	17:11	147	16:14 (MT 06)		19:22		19:56	32	07:12 (MT 10)	20:26					
30	07:16	09:04 (MT 09)			06:49		06:00	05:30	06:39 (MT 10)	05:29					
	17:12	149	16:15 (MT 06)		19:23		19:57	33	07:12 (MT 10)	20:27					
31	07:15	09:05 (MT 09)			06:47					05:29					
	17:14	150	16:16 (MT 06)		19:24					20:28					
Potential sun hours	295		296		369		400		450			455			
Total, worst case	3098		3185		317		210		705			0,47			
Sun reduction	0,44		0,46		0,44		0,48		0,47						
Oper. time red.	0,70		0,70		0,70		0,70		0,70						
Wind dir. red.	0,62		0,56		0,53		0,57		0,57						
Total reduction	0,19		0,18		0,16		0,19		0,19						
Total, real	594		572		52		40		132						

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: R19 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:54 20:20	06:47 (MT 10) 07:21 (MT 10)	06:25 19:36	06:56 18:44	06:32 16:56
2	05:30 20:39	05:55 20:19	06:47 (MT 10) 07:22 (MT 10)	06:26 19:34	06:58 18:42	06:33 16:55
3	05:30 20:39	05:56 20:18	06:47 (MT 10) 07:22 (MT 10)	06:27 19:32	06:59 18:41	06:34 16:54
4	05:31 20:39	05:57 20:16	06:47 (MT 10) 07:22 (MT 10)	06:29 19:31	07:00 18:39	06:35 16:53
5	05:31 20:39	05:58 20:15	06:46 (MT 10) 07:22 (MT 10)	06:30 19:29	07:01 18:37	06:37 16:51
6	05:32 20:39	05:59 20:14	06:46 (MT 10) 07:23 (MT 10)	06:31 19:27	07:02 18:36	06:38 16:50
7	05:32 20:39	06:00 20:13	06:46 (MT 10) 07:22 (MT 10)	06:32 19:26	07:03 18:34	06:39 16:49
8	05:33 20:38	06:01 20:12	06:46 (MT 10) 07:22 (MT 10)	06:33 19:24	07:04 18:32	06:40 16:48
9	05:34 20:37	06:02 20:10	06:46 (MT 10) 07:22 (MT 10)	06:34 19:22	07:05 18:31	06:42 16:47
10	05:34 20:37	06:03 20:09	06:46 (MT 10) 07:22 (MT 10)	06:35 19:21	07:06 18:29	06:43 16:46
11	05:35 20:37	06:04 20:08	06:47 (MT 10) 07:21 (MT 10)	06:36 19:19	07:07 18:27	06:44 16:45
12	05:36 20:36	06:05 20:06	06:47 (MT 10) 07:21 (MT 10)	06:37 19:17	07:08 18:26	06:45 16:44
13	05:37 20:36	06:06 20:05	06:47 (MT 10) 07:20 (MT 10)	06:38 19:15	07:10 18:24	06:46 16:43
14	05:37 20:35	06:07 20:03	06:48 (MT 10) 07:19 (MT 10)	06:39 19:14	07:11 18:23	06:48 16:42
15	05:38 20:35	06:08 20:02	06:49 (MT 10) 07:18 (MT 10)	06:40 19:12	07:12 18:21	06:49 16:41
16	05:39 20:34	06:09 20:01	06:49 (MT 10) 07:17 (MT 10)	06:41 19:10	07:13 18:19	06:50 16:40
17	05:40 20:33	06:10 19:59	06:50 (MT 10) 07:16 (MT 10)	06:42 19:08	07:14 18:18	06:51 16:39
18	05:41 20:33	06:11 19:58	06:52 (MT 10) 07:14 (MT 10)	06:43 19:07	07:15 18:16	06:53 16:38
19	05:41 20:32	07:01 (MT 10) 07:06 (MT 10)	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38
20	05:42 20:31	06:58 (MT 10) 07:09 (MT 10)	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37
21	05:43 20:30	06:57 (MT 10) 07:12 (MT 10)	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36
22	05:44 20:30	06:55 (MT 10) 07:13 (MT 10)	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36
23	05:45 20:29	06:54 (MT 10) 07:15 (MT 10)	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35
24	05:46 20:28	06:53 (MT 10) 07:16 (MT 10)	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34
25	05:47 20:27	06:52 (MT 10) 07:17 (MT 10)	06:18 19:47	06:50 18:54	07:01 17:06	07:01 16:34
26	05:48 20:26	06:51 (MT 10) 07:17 (MT 10)	06:19 19:45	06:51 18:53	07:02 17:04	07:02 16:33
27	05:49 20:25	06:50 (MT 10) 07:18 (MT 10)	06:20 19:44	06:52 18:52	07:03 17:03	07:03 16:33
28	05:50 20:24	06:49 (MT 10) 07:19 (MT 10)	06:21 19:42	06:53 18:49	07:04 17:02	07:04 16:32
29	05:51 20:23	06:49 (MT 10) 07:20 (MT 10)	06:22 19:41	06:54 18:48	07:05 17:00	07:05 16:32
30	05:52 20:22	06:48 (MT 10) 07:20 (MT 10)	06:23 19:39	06:55 18:46	07:06 16:59	07:06 16:31
31	05:53 20:21	06:48 (MT 10) 07:21 (MT 10)	06:24 19:37	06:56 18:45	07:07 16:58	07:07 16:31
Potential sun hours	461	429	375	344	296	285
Total, worst case	298	625		2053	3858	1768
Sun reduction	0,61	0,67		0,44	0,41	0,36
Oper. time red.	0,70	0,70		0,70	0,70	0,70
Wind dir. red.	0,57	0,57		0,54	0,60	0,67
Total reduction	0,24	0,27		0,17	0,17	0,17
Total, real	72	167		340	655	303

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: R20 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:07 (MT 10) 19:25	06:45 19:58	06:43 (MT 13) 20:28
2	07:28 16:41	07:13 17:16	06:36 17:51	07:07 (MT 10) 19:26	06:44 19:59	06:46 (MT 13) 20:29
3	07:28 16:42	07:12 17:17	06:34 17:52	07:06 (MT 10) 19:27	06:42 20:00	06:55 (MT 13) 20:29
4	07:28 16:43	07:11 17:19	06:32 17:54	07:07 (MT 10) 19:28	06:40 20:01	05:55 20:31
5	07:28 16:44	07:10 17:20	06:31 17:55	07:06 (MT 10) 19:30	06:39 20:02	05:53 20:31
6	07:28 16:44	07:09 17:21	06:29 17:56	07:06 (MT 10) 19:31	06:37 20:03	05:52 20:32
7	07:28 16:45	07:08 17:23	06:28 17:57	07:07 (MT 10) 19:32	06:35 20:05	05:51 20:33
8	07:28 16:46	07:07 17:24	06:26 17:58	07:07 (MT 10) 19:33	06:34 20:06	05:50 20:33
9	07:28 16:47	07:05 17:25	06:24 17:59	07:07 (MT 10) 19:34	06:32 20:07	05:48 20:34
10	07:28 16:49	07:04 17:26	06:23 18:01	07:09 (MT 10) 19:35	06:30 20:08	05:47 20:34
11	07:28 16:50	07:03 17:28	06:21 18:02	07:09 (MT 10) 19:36	06:29 20:09	05:46 20:35
12	07:27 16:51	07:02 17:29	06:19 18:03	07:10 (MT 10) 19:37	6 06:51 (MT 13) 20:09	06:48 (MT 13) 20:10
13	07:27 16:52	07:00 17:30	06:18 18:04	07:13 (MT 10) 19:38	14 07:02 (MT 13) 20:10	06:45 (MT 13) 20:11
14	07:27 16:53	06:59 17:32	06:16 18:05	07:17 (MT 10) 19:39	18 06:43 (MT 13) 20:12	06:43 (MT 13) 20:12
15	07:26 16:54	06:58 17:33	06:14 18:06	07:23 (MT 10) 19:40	22 06:41 (MT 13) 20:13	07:05 (MT 13) 20:13
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	25 07:06 (MT 13) 20:14	06:40 (MT 13) 20:14
17	07:25 16:56	06:55 17:35	06:11 18:09	06:19 19:43	26 07:06 (MT 13) 20:15	06:39 (MT 13) 20:15
18	07:25 16:57	06:54 17:37	06:09 18:10	06:17 19:44	28 07:07 (MT 13) 20:16	07:07 (MT 13) 20:16
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	29 07:07 (MT 13) 20:17	06:38 (MT 13) 20:17
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	29 07:07 (MT 13) 20:18	06:37 (MT 13) 20:18
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	30 07:07 (MT 13) 20:19	06:37 (MT 13) 20:19
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	30 07:06 (MT 13) 20:20	06:37 (MT 13) 20:20
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	29 07:06 (MT 13) 20:21	06:37 (MT 13) 20:21
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	29 07:06 (MT 13) 20:22	06:37 (MT 13) 20:22
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	29 07:06 (MT 13) 20:23	06:37 (MT 13) 20:23
26	07:19 17:07	06:42 17:46	05:56 18:19	06:05 19:53	28 07:05 (MT 13) 20:23	06:38 (MT 13) 20:23
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	27 07:05 (MT 13) 20:24	06:38 (MT 13) 20:24
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	25 07:03 (MT 13) 20:24	06:39 (MT 13) 20:24
29	07:17 17:11		05:50 19:22	06:01 19:56	23 07:02 (MT 13) 20:25	06:40 (MT 13) 20:25
30	07:16 17:12		05:49 19:23	06:00 19:57	21 07:01 (MT 13) 20:26	06:41 (MT 13) 20:26
31	07:15 17:14		05:47 19:24		18 06:59 (MT 13) 20:27	06:59 (MT 13) 20:27
Potential sun hours	295	296	369	400	450	455
Total, worst case		171	376	486	23	
Sun reduction		0,46	0,44	0,48	0,47	
Oper. time red.		0,70	0,70	0,70	0,70	
Wind dir. red.		0,64	0,64	0,58	0,58	
Total reduction		0,21	0,20	0,20	0,19	
Total, real		35	74	95	4	

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: R20 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29	05:54	06:25	06:52 (MT 13)	06:56	07:08
	20:40	20:20	19:36	18:44	18:09 (MT 10)	16:31
2	05:30	05:55	06:26	06:58	07:49 (MT 10)	06:33
	20:39	20:19	19:34	18:42	18:11 (MT 10)	16:31
3	05:30	05:56	06:27	06:59	07:47 (MT 10)	06:34
	20:39	20:18	19:32	18:41	18:12 (MT 10)	16:31
4	05:31	05:57	06:29	07:00	07:45 (MT 10)	06:35
	20:39	20:16	19:31	18:39	18:12 (MT 10)	16:30
5	05:31	05:58	06:30	07:01	07:44 (MT 10)	06:37
	20:39	20:15	19:29	18:37	18:13 (MT 10)	16:30
6	05:32	05:59	06:31	07:02	07:43 (MT 10)	06:38
	20:39	20:14	19:27	18:36	18:13 (MT 10)	16:30
7	05:32	06:00	06:32	07:03	07:42 (MT 10)	06:39
	20:38	20:13	19:26	18:34	18:13 (MT 10)	16:30
8	05:33	06:01	06:33	07:04	07:41 (MT 10)	06:40
	20:38	20:12	19:24	18:32	18:13 (MT 10)	16:30
9	05:34	06:02	06:34	07:05	07:42 (MT 10)	06:42
	20:38	20:10	19:22	18:31	18:14 (MT 10)	16:30
10	05:34	06:03	06:35	07:06	07:41 (MT 10)	06:43
	20:37	20:09	19:21	18:29	18:14 (MT 10)	16:30
11	05:35	06:04	06:36	07:07	07:41 (MT 10)	06:44
	20:37	20:08	19:19	18:27	18:13 (MT 10)	16:30
12	05:36	06:05	06:37	07:08	07:41 (MT 10)	06:45
	20:36	20:06	19:17	18:26	18:13 (MT 10)	16:30
13	05:37	06:06	06:38	07:10	07:41 (MT 10)	06:47
	20:36	20:05	19:15	18:24	18:12 (MT 10)	16:30
14	05:37	06:07	06:39	07:11	07:41 (MT 10)	06:48
	20:35	20:04	19:14	18:23	18:11 (MT 10)	16:30
15	05:38	06:08	06:40	07:12	07:42 (MT 10)	06:49
	20:35	20:02	19:12	18:21	18:11 (MT 10)	16:30
16	05:39	06:09	06:41	07:13	07:43 (MT 10)	06:50
	20:34	20:01	19:10	18:19	18:10 (MT 10)	16:31
17	05:40	06:10	06:42	07:14	07:44 (MT 10)	06:51
	20:33	19:59	19:08	18:18	18:08 (MT 10)	16:31
18	05:41	06:11	06:43	07:15	07:45 (MT 10)	06:53
	20:33	19:58	19:07	18:16	18:06 (MT 10)	16:31
19	05:41	06:12	06:44	07:16	07:46 (MT 10)	06:54
	20:32	19:56	19:05	18:15	18:04 (MT 10)	16:31
20	05:42	06:13	06:45	07:18	07:50 (MT 10)	06:55
	20:31	19:55	19:03	18:13	18:02 (MT 10)	16:32
21	05:43	06:14	06:46	07:19	07:51 (MT 10)	06:56
	20:30	19:53	19:01	18:12	18:01 (MT 10)	16:33
22	05:44	06:15	06:47	07:20	07:52 (MT 10)	06:57
	20:30	19:52	19:00	18:10	17:59 (MT 10)	16:33
23	05:45	06:16	06:48	07:21	07:53 (MT 10)	06:59
	20:29	19:50	18:58	18:09	17:58 (MT 10)	16:34
24	05:46	06:17	06:49	07:22	07:54 (MT 10)	07:00
	20:28	19:49	18:56	18:07	17:56 (MT 10)	16:34
25	05:47	06:18	06:50	07:23	07:55 (MT 10)	07:01
	20:27	19:47	18:54	18:06	17:55 (MT 10)	16:35
26	05:48	06:19	06:51	07:24	07:56 (MT 10)	07:02
	20:26	19:45	18:53	18:04	17:53 (MT 10)	16:35
27	05:49	06:20	06:52	07:25	07:57 (MT 10)	07:03
	20:25	19:44	18:51	18:03	17:52 (MT 10)	16:36
28	05:50	06:21	06:53	07:26	07:58 (MT 10)	07:04
	20:24	19:42	18:49	18:01	17:50 (MT 10)	16:37
29	05:51	06:22	06:54	07:27	07:59 (MT 10)	07:05
	20:23	19:41	18:48	18:00	17:49 (MT 10)	16:37
30	05:52	06:23	06:55	07:28	08:00 (MT 10)	07:06
	20:22	19:39	18:46	17:58	17:47 (MT 10)	16:38
31	05:53	06:24	06:56	07:29	08:01 (MT 10)	07:07
	20:21	19:37	18:44	17:56	17:46 (MT 10)	16:39
Potential sun hours	461	429	375	344	296	285
Total, worst case		508	18	535		
Sun reduction		0,67	0,58	0,44		
Oper. time red.		0,70	0,70	0,70		
Wind dir. red.		0,58	0,62	0,64		
Total reduction		0,27	0,25	0,20		
Total, real		139	5	105		

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: R21 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28
2	07:28 16:41	07:13 17:16	06:36 17:51	06:57 (MT 10) 06:44 19:26	05:57 19:59	05:28 20:29
3	07:28 16:42	07:12 17:17	06:34 17:52	06:54 (MT 10) 07:09 (MT 10) 19:27	05:56 20:00	05:28 20:30
4	07:28 16:43	07:11 17:19	06:32 17:54	06:52 (MT 10) 07:11 (MT 10) 19:28	05:55 20:01	05:27 20:31
5	07:28 16:44	07:10 17:20	06:31 17:55	06:51 (MT 10) 07:12 (MT 10) 19:30	05:53 20:02	05:27 20:31
6	07:28 16:44	07:09 17:21	06:29 17:56	06:49 (MT 10) 07:12 (MT 10) 19:31	05:52 20:03	05:27 20:32
7	07:28 16:45	07:08 17:23	06:28 17:57	06:49 (MT 10) 07:13 (MT 10) 19:32	05:51 20:05	05:26 20:33
8	07:28 16:46	07:07 17:24	06:26 17:58	06:48 (MT 10) 07:13 (MT 10) 19:33	06:52 (MT 13) 06:56 (MT 13) 20:06	05:26 20:33
9	07:28 16:47	07:05 17:25	06:24 17:59	06:47 (MT 10) 07:13 (MT 10) 19:34	06:51 (MT 13) 07:00 (MT 13) 20:07	05:26 20:34
10	07:28 16:49	07:04 17:26	06:23 18:01	06:48 (MT 10) 07:13 (MT 10) 19:35	06:49 (MT 13) 07:01 (MT 13) 20:08	05:26 20:35
11	07:28 16:50	07:03 17:28	06:21 18:02	06:47 (MT 10) 07:12 (MT 10) 19:36	06:47 (MT 13) 07:01 (MT 13) 20:09	05:26 20:35
12	07:27 16:51	07:02 17:29	06:19 18:03	06:47 (MT 10) 07:11 (MT 10) 19:37	06:46 (MT 13) 07:02 (MT 13) 20:10	05:25 20:36
13	07:27 16:52	07:00 17:30	06:18 18:04	06:48 (MT 10) 07:11 (MT 10) 19:38	06:44 (MT 13) 07:02 (MT 13) 20:11	05:25 20:36
14	07:27 16:53	06:59 17:32	06:16 18:05	06:49 (MT 10) 07:09 (MT 10) 19:39	06:43 (MT 13) 07:03 (MT 13) 20:12	05:25 20:37
15	07:26 16:54	06:58 17:33	06:14 18:06	06:50 (MT 10) 07:07 (MT 10) 19:41	06:41 (MT 13) 07:02 (MT 13) 20:13	05:25 20:37
16	07:26 16:55	06:56 17:34	06:13 18:07	06:51 (MT 10) 07:05 (MT 10) 19:42	06:39 (MT 13) 07:02 (MT 13) 20:14	05:25 20:37
17	07:25 16:56	06:55 17:35	06:11 18:09	06:54 (MT 10) 07:02 (MT 10) 19:43	06:39 (MT 13) 07:02 (MT 13) 20:15	05:25 20:38
18	07:25 16:58	06:54 17:37	06:09 18:10	06:17 19:44	06:39 (MT 13) 07:00 (MT 13) 20:16	05:25 20:38
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	06:40 (MT 13) 07:00 (MT 13) 20:17	05:25 20:38
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	06:40 (MT 13) 06:59 (MT 13) 20:18	05:26 20:39
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	06:41 (MT 13) 06:58 (MT 13) 20:19	05:26 20:39
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	06:42 (MT 13) 06:55 (MT 13) 20:20	05:26 20:39
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	06:45 (MT 13) 06:53 (MT 13) 20:21	05:26 20:39
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	06:40 (MT 13) 20:22	05:26 20:39
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	06:41 (MT 13) 20:23	05:27 20:40
26	07:20 17:07	06:42 17:46	05:56 18:19	06:05 19:53	06:40 (MT 13) 20:23	05:27 20:40
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	06:40 (MT 13) 20:24	05:27 20:40
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:40 (MT 13) 20:25	05:28 20:40
29	07:17 17:11	06:37 19:22	05:50 19:22	06:01 19:56	06:40 (MT 13) 20:26	05:28 20:40
30	07:16 17:12	06:35 19:23	05:49 19:23	06:00 19:57	06:40 (MT 13) 20:27	05:29 20:40
31	07:15 17:14	06:34 19:24	05:47 19:24	05:59 20:28	06:40 (MT 13) 20:28	05:29 20:40
Potential sun hours	295	296	369	400	450	455
Total, worst case			319		258	
Sun reduction			0,44		0,48	
Oper. time red.			0,70		0,70	
Wind dir. red.			0,63		0,59	
Total reduction			0,20		0,20	
Total, real			62		51	

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: R21 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:54 20:20	06:25 19:36	06:47 (MT 13) 18:44	06:57 18:44	07:08 16:31
2	05:30 20:39	05:55 20:19	06:26 19:34	06:48 (MT 13) 18:42	06:58 18:42	07:09 16:31
3	05:30 20:39	05:56 20:18	06:28 19:32	06:48 (MT 13) 18:41	06:59 18:41	07:10 16:31
4	05:31 20:39	05:57 20:16	06:29 19:31	06:49 (MT 13) 18:39	07:00 18:39	07:11 16:30
5	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	07:01 18:37	07:12 16:30
6	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	07:02 18:36	07:13 16:30
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	07:03 18:34	07:14 16:30
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	07:04 18:32	07:15 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	07:05 18:31	07:15 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	07:06 18:29	07:16 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	07:07 18:27	07:17 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	07:08 18:26	07:18 16:30
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	07:10 18:24	07:19 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:23	07:11 18:23	07:20 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	07:12 18:21	07:20 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	07:13 18:19	07:21 16:31
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	07:14 18:18	07:22 16:31
18	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	07:15 18:16	07:22 16:31
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	07:16 18:15	07:23 16:32
20	05:42 20:31	06:13 19:55	06:45 (MT 13) 19:03	07:18 18:13	07:18 18:13	07:24 16:32
21	05:43 20:30	06:14 19:53	06:46 (MT 13) 19:01	07:19 18:12	07:19 18:12	07:24 16:33
22	05:44 20:30	06:15 19:52	06:47 (MT 13) 19:00	07:20 18:10	07:20 18:10	07:25 16:33
23	05:45 20:29	06:16 19:50	06:48 (MT 13) 18:58	07:21 18:09	07:21 18:09	07:25 16:34
24	05:46 20:28	06:17 19:49	06:49 (MT 13) 18:56	07:22 18:07	07:22 18:07	07:26 16:34
25	05:47 20:27	06:18 19:47	06:50 (MT 13) 18:54	07:23 17:06	07:23 17:06	07:26 16:35
26	05:48 20:26	06:19 19:46	06:51 (MT 13) 18:53	07:25 (MT 10) 17:04	07:25 (MT 10) 17:04	07:27 16:35
27	05:49 20:25	06:20 19:44	06:52 (MT 13) 18:51	07:34 (MT 10) 17:03	07:34 (MT 10) 17:03	07:27 16:36
28	05:50 20:24	06:21 19:42	06:53 (MT 13) 18:49	07:32 (MT 10) 17:02	07:32 (MT 10) 17:02	07:27 16:37
29	05:51 20:23	06:22 19:41	06:54 (MT 13) 18:48	07:30 (MT 10) 17:00	07:30 (MT 10) 17:00	07:28 16:37
30	05:52 20:22	06:23 19:39	06:55 (MT 13) 18:46	07:28 (MT 10) 16:59	07:28 (MT 10) 16:59	07:28 16:38
31	05:53 20:21	06:24 19:37	06:56 (MT 13) 18:44	07:50 (MT 10) 16:58	07:50 (MT 10) 16:58	07:28 16:39
Potential sun hours	461	429	375	344	296	285
Total, worst case		223	112		250	
Sun reduction		0,67	0,58		0,44	
Oper. time red.		0,70	0,70		0,70	
Wind dir. red.		0,59	0,62		0,63	
Total reduction		0,28	0,25		0,19	
Total, real		61	28		48	

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: R22 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:16 (MT 10) 19:25	06:45 19:58	05:29 20:28
2	07:28 16:41	07:13 17:16	06:36 17:51	07:17 (MT 10) 19:26	06:44 19:59	05:28 20:29
3	07:28 16:42	07:12 17:17	06:34 17:52	07:17 (MT 10) 19:27	06:42 20:00	05:28 20:30
4	07:28 16:43	07:11 17:19	06:32 17:54	07:19 (MT 10) 19:28	06:40 20:01	05:27 20:31
5	07:28 16:44	07:10 17:20	06:31 17:55	07:20 (MT 10) 19:30	06:39 20:02	05:27 20:31
6	07:28 16:44	07:09 17:21	06:29 17:56	07:21 (MT 10) 19:31	06:37 20:03	05:27 20:32
7	07:28 16:45	07:08 17:23	06:28 17:57	07:25 (MT 10) 19:32	06:35 20:05	05:26 20:33
8	07:28 16:46	07:07 17:24	06:26 17:58	07:35 (MT 10) 19:33	06:34 20:06	05:26 20:33
9	07:28 16:47	07:05 17:25	06:24 17:59		06:32 20:07	05:26 20:34
10	07:28 16:49	07:04 17:26	06:23 18:01		06:30 20:08	05:26 20:34
11	07:28 16:50	07:03 17:28	06:21 18:02		06:29 20:09	05:26 20:35
12	07:27 16:51	07:02 17:29	06:19 18:03		06:27 20:10	05:25 20:36
13	07:27 16:52	07:00 17:30	06:18 18:04		06:25 20:11	05:25 20:36
14	07:27 16:53	06:59 17:32	06:16 18:05		06:24 20:12	05:25 20:37
15	07:26 16:54	06:58 17:33	07:27 (MT 10) 18:06	06:14 19:41	06:22 20:13	05:25 20:37
16	07:26 16:55	06:56 17:34	07:38 (MT 10) 18:07	06:13 19:42	06:21 20:14	05:25 20:37
17	07:25 16:56	06:55 17:35	07:23 (MT 10) 18:09	06:11 19:43	06:19 20:15	05:25 20:38
18	07:25 16:57	06:54 17:37	07:43 (MT 10) 18:10	06:09 19:44	06:17 20:16	05:25 20:38
19	07:24 16:59	06:52 17:38	07:21 (MT 10) 18:11	06:08 19:45	06:16 20:17	05:25 20:38
20	07:24 17:00	06:51 17:39	07:46 (MT 10) 18:12	06:06 19:46	06:14 20:18	05:26 20:39
21	07:23 17:01	06:49 17:40	07:18 (MT 10) 18:13	06:05 19:47	06:13 20:19	05:26 20:39
22	07:22 17:02	06:48 17:41	07:47 (MT 10) 18:14	06:04 19:48	06:11 20:20	05:26 20:39
23	07:22 17:04	06:46 17:43	07:17 (MT 10) 18:15	06:03 19:49	06:10 20:21	05:26 20:39
24	07:21 17:05	06:45 17:44	07:48 (MT 10) 18:16	06:02 19:50	06:08 20:22	05:26 20:39
25	07:20 17:06	06:43 17:45	07:16 (MT 10) 18:17	06:01 19:52	06:07 20:23	05:27 20:40
26	07:19 17:07	06:42 17:46	07:48 (MT 10) 18:19	06:00 19:53	06:05 20:23	05:27 20:40
27	07:19 17:09	06:40 17:48	07:47 (MT 10) 18:20	06:00 19:54	06:04 20:24	05:27 20:40
28	07:18 17:10	06:39 17:49	07:16 (MT 10) 18:21	06:00 19:55	06:03 20:25	05:28 20:40
29	07:17 17:11		07:47 (MT 10) 18:22	06:00 19:56	06:01 20:26	05:28 20:40
30	07:16 17:12		06:50 19:23	06:00 19:57	06:00 20:27	05:29 20:40
31	07:15 17:14		06:47 19:24		05:59 20:28	
Potential sun hours	295	296	369	400	450	455
Total, worst case		373		156		467
Sun reduction		0,46		0,44		0,48
Oper. time red.		0,70		0,70		0,70
Wind dir. red.		0,65		0,65		0,60
Total reduction		0,21		0,20		0,20
Total, real		78		31		94

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: R22 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	20:40	05:54	20:20	06:25	19:36	06:49 (MT 13)	18:44	06:32	16:56	07:08	16:31
2	05:30	20:39	05:55	20:19	06:26	19:34	06:48 (MT 13)	18:42	06:33	16:55	07:09	16:31
3	05:30	20:39	05:56	20:18	06:27	19:32	06:49 (MT 13)	18:41	06:34	16:54	07:10	16:31
4	05:31	20:39	05:57	20:16	06:29	19:31	06:49 (MT 13)	18:39	06:35	16:53	07:11	16:30
5	05:31	20:39	05:58	20:15	06:30	19:29	06:50 (MT 13)	18:37	06:37	16:51	07:12	16:30
6	05:32	20:39	05:59	20:14	06:31	19:27	06:51 (MT 13)	18:36	06:38	16:50	07:13	16:30
7	05:32	20:38	06:00	20:13	06:32	19:26	06:53 (MT 13)	18:34	06:39	16:49	07:14	16:30
8	05:33	20:38	06:01	20:12	06:33	19:24	06:57 (MT 13)	18:32	06:40	16:48	07:15	16:30
9	05:34	20:38	06:02	20:10	06:34	19:22	07:02 (MT 13)	18:31	06:42	16:47	07:16	16:30
10	05:34	20:37	06:03	20:09	06:35	19:21	07:05 (MT 13)	18:29	06:43	16:46	07:17	16:30
11	05:35	20:37	06:04	20:08	06:36	19:19	07:07 (MT 13)	18:27	06:44	16:45	07:18	16:30
12	05:36	20:36	06:05	20:06	06:37	19:17	07:08 (MT 13)	18:26	06:45	16:44	07:19	16:30
13	05:37	20:36	06:06	20:05	06:38	19:15	07:10 (MT 13)	18:24	06:47	16:43	07:20	16:30
14	05:37	20:35	06:07	20:04	06:39	19:14	07:11 (MT 13)	18:23	06:48	16:42	07:21	16:30
15	05:38	20:35	06:08	20:02	06:40	19:12	07:12 (MT 13)	18:21	06:49	16:41	07:22	16:30
16	05:39	20:34	06:09	20:01	06:41	19:10	07:13 (MT 13)	18:19	06:50	16:40	07:23	16:30
17	05:40	20:33	06:10	19:59	06:42	19:08	07:14 (MT 13)	18:18	06:51	16:39	07:24	16:30
18	05:41	20:33	06:11	19:58	06:43	19:07	07:15 (MT 13)	18:16	06:53	16:38	07:25	16:30
19	05:41	20:32	06:12	19:56	06:44	19:05	07:16 (MT 13)	18:15	06:54	16:37	07:26	16:30
20	05:42	20:31	06:13	19:55	06:45	19:03	07:18 (MT 13)	18:13	06:55	16:36	07:27	16:30
21	05:43	20:30	06:14	19:53	06:46	19:01	07:19 (MT 13)	18:12	06:56	16:35	07:28	16:30
22	05:44	20:30	06:15	19:52	06:47	18:59	07:20 (MT 13)	18:10	06:57	16:34	07:29	16:30
23	05:45	20:29	06:16	19:50	06:48	18:57	07:21 (MT 13)	18:09	06:59	16:33	07:30	16:30
24	05:46	20:28	06:17	19:49	06:49	18:55	07:22 (MT 13)	18:07	07:00	16:32	07:31	16:30
25	05:47	20:27	06:18	19:47	06:50	18:53	07:23 (MT 13)	18:06	07:01	16:31	07:32	16:30
26	05:48	20:26	06:19	19:45	06:51	18:51	07:24 (MT 13)	18:04	07:02	16:30	07:33	16:30
27	05:49	20:25	06:20	19:44	06:52	18:49	07:25 (MT 13)	18:03	07:03	16:29	07:34	16:30
28	05:50	20:24	06:21	19:42	06:53	18:47	07:26 (MT 13)	18:02	07:04	16:28	07:35	16:30
29	05:51	20:23	06:22	19:41	06:54	18:45	07:27 (MT 13)	18:01	07:05	16:27	07:36	16:30
30	05:52	20:22	06:23	19:39	06:55	18:43	07:28 (MT 13)	18:00	07:06	16:26	07:37	16:30
31	05:53	20:21	06:24	19:37	06:56	18:41	07:29 (MT 13)	17:59	07:07	16:25	07:38	16:30
Potential sun hours	461	429			375			344		296		285
Total, worst case			308		164			533				
Sun reduction			0,67		0,58			0,44				
Oper. time red.			0,70		0,70			0,70				
Wind dir. red.			0,60		0,60			0,65				
Total reduction			0,28		0,24			0,20				
Total, real			86		40			106				

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: R24 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:51 (MT 13) 08:55 (MT 13)	06:45 19:25	07:15 (MT 12) 09:15 (MT 13)
2	07:28 16:41	07:13 17:16	06:36 17:51	07:51 (MT 13) 08:56 (MT 13)	06:44 19:26	07:13 (MT 12) 09:15 (MT 13)
3	07:28 16:42	07:12 17:17	06:34 17:52	07:49 (MT 13) 08:56 (MT 13)	06:42 19:27	07:13 (MT 12) 09:15 (MT 13)
4	07:28 16:43	07:11 17:19	06:32 17:53	07:49 (MT 13) 08:57 (MT 13)	06:40 19:28	07:12 (MT 12) 09:15 (MT 13)
5	07:28 16:43	07:10 17:20	06:31 17:55	07:48 (MT 13) 08:57 (MT 13)	06:39 19:30	07:11 (MT 12) 09:15 (MT 13)
6	07:28 16:44	07:09 17:21	06:29 17:56	07:47 (MT 13) 08:56 (MT 13)	06:37 19:31	07:11 (MT 12) 09:15 (MT 13)
7	07:28 16:45	07:08 17:23	06:28 17:57	07:47 (MT 13) 08:57 (MT 13)	06:35 19:32	07:10 (MT 12) 09:15 (MT 13)
8	07:28 16:46	07:07 17:24	06:26 17:58	07:47 (MT 13) 08:56 (MT 13)	06:34 19:33	07:10 (MT 12) 09:15 (MT 13)
9	07:28 16:47	07:05 17:25	06:24 17:59	07:46 (MT 13) 08:56 (MT 13)	06:32 19:34	07:11 (MT 12) 09:15 (MT 13)
10	07:28 16:48	07:04 17:26	06:23 18:00	07:46 (MT 13) 08:56 (MT 13)	06:30 19:35	07:11 (MT 12) 09:15 (MT 13)
11	07:28 16:50	07:03 17:28	06:21 18:02	07:46 (MT 13) 08:55 (MT 13)	06:29 19:36	07:11 (MT 12) 09:15 (MT 13)
12	07:27 16:51	07:02 17:29	06:19 18:03	07:45 (MT 13) 08:54 (MT 13)	06:27 19:37	07:13 (MT 12) 09:15 (MT 13)
13	07:27 16:52	07:00 17:30	06:18 18:04	07:46 (MT 13) 08:54 (MT 13)	06:25 19:38	07:14 (MT 12) 09:15 (MT 13)
14	07:27 16:53	06:59 17:31	06:16 18:05	07:45 (MT 13) 08:53 (MT 13)	06:24 19:39	07:17 (MT 12) 09:15 (MT 13)
15	07:26 16:54	06:58 17:33	06:14 18:06	07:45 (MT 13) 08:52 (MT 13)	06:22 19:40	07:25 (MT 12) 09:15 (MT 13)
16	07:26 16:55	06:56 17:34	06:13 18:07	07:45 (MT 13) 08:51 (MT 13)	06:21 19:42	05:41 20:14
17	07:25 16:56	06:55 17:35	06:11 18:08	07:46 (MT 13) 08:51 (MT 13)	06:19 19:43	05:40 20:15
18	07:25 16:57	06:54 17:36	06:09 18:10	07:45 (MT 13) 08:49 (MT 13)	06:17 19:44	05:39 20:16
19	07:24 16:59	06:52 17:38	06:07 18:11	07:45 (MT 13) 08:48 (MT 13)	06:16 19:45	05:38 20:17
20	07:24 17:00	06:51 17:39	06:06 18:12	07:46 (MT 13) 08:47 (MT 13)	06:14 19:46	05:37 20:18
21	07:23 17:01	06:49 17:40	06:04 18:13	07:47 (MT 13) 08:45 (MT 13)	06:13 19:47	05:36 20:19
22	07:22 17:02	06:48 17:41	06:02 18:14	07:47 (MT 13) 08:44 (MT 13)	06:11 19:48	05:35 20:20
23	07:22 17:03	06:46 17:43	06:01 18:15	07:47 (MT 13) 08:42 (MT 13)	06:10 19:49	05:35 20:21
24	07:21 17:05	06:45 17:44	05:59 18:16	07:49 (MT 13) 08:41 (MT 13)	06:08 19:50	05:34 20:22
25	07:20 17:06	06:43 17:45	05:57 18:17	07:49 (MT 13) 08:38 (MT 13)	06:07 19:51	05:33 20:23
26	07:19 17:07	06:42 17:46	05:56 18:18	07:50 (MT 13) 08:36 (MT 13)	06:05 19:53	05:32 20:23
27	07:19 17:08	06:40 17:48	05:54 18:20	07:52 (MT 13) 08:35 (MT 13)	06:04 19:54	05:32 20:24
28	07:18 17:10	06:39 17:49	05:52 18:21	07:52 (MT 13) 08:32 (MT 13)	06:03 19:55	05:31 20:25
29	07:17 17:11		06:50 19:22	08:55 (MT 13) 09:29 (MT 13)	06:01 19:56	05:30 20:26
30	07:16 17:12		06:49 19:23	07:19 (MT 12) 09:25 (MT 13)	06:00 19:57	05:30 20:27
31	07:15 17:14		06:47 19:24	07:17 (MT 12) 09:22 (MT 13)		05:29 20:28
Potential sun hours	295	296	369	400	450	455
Total, worst case		602	1852		294	
Sun reduction		0,46	0,44		0,48	
Oper. time red.		0,70	0,70		0,70	
Wind dir. red.		0,66	0,66		0,61	
Total reduction		0,21	0,20		0,21	
Total, real		128	379		61	

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: R24 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:54 20:20	06:25 19:36	07:10 (MT 12) 18:44	06:56 18:44	08:25 (MT 13) 16:56
2	05:30 20:39	05:55 20:19	06:26 19:34	07:09 (MT 12) 18:42	06:58 18:42	08:24 (MT 13) 16:55
3	05:30 20:39	05:56 20:18	06:27 19:32	07:08 (MT 12) 18:41	06:59 18:41	08:24 (MT 13) 16:54
4	05:31 20:39	05:57 20:16	06:28 19:31	07:07 (MT 12) 18:39	07:00 18:39	08:24 (MT 13) 16:53
5	05:31 20:39	05:58 20:15	06:29 19:29	07:06 (MT 12) 18:37	07:01 18:37	08:23 (MT 13) 16:51
6	05:32 20:39	05:59 20:14	06:31 19:27	07:06 (MT 12) 18:36	07:02 18:36	08:23 (MT 13) 16:50
7	05:32 20:38	06:00 20:13	06:32 19:26	07:06 (MT 12) 18:34	07:03 18:34	08:23 (MT 13) 16:49
8	05:33 20:38	06:01 20:12	06:33 19:24	07:06 (MT 12) 18:32	07:04 18:32	08:23 (MT 13) 16:48
9	05:34 20:37	06:02 20:10	06:34 19:22	07:06 (MT 12) 18:31	07:05 18:31	08:24 (MT 13) 16:47
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 (MT 12) 18:29	07:06 18:29	08:24 (MT 13) 16:46
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 (MT 12) 18:27	07:07 18:27	08:24 (MT 13) 16:45
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 (MT 12) 18:26	07:08 18:26	08:24 (MT 13) 16:44
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 (MT 12) 18:24	07:10 18:24	08:25 (MT 13) 16:43
14	05:37 20:35	06:07 20:03	06:39 19:14	08:45 (MT 13) 18:22	07:11 18:22	08:25 (MT 13) 16:42
15	05:38 20:35	06:08 20:02	06:40 19:12	08:43 (MT 13) 18:21	07:12 18:21	08:26 (MT 13) 16:41
16	05:39 20:34	06:09 20:01	06:41 19:10	08:41 (MT 13) 18:19	07:13 18:19	08:27 (MT 13) 16:40
17	05:40 20:33	06:10 19:59	06:42 19:08	08:39 (MT 13) 18:18	07:14 18:18	08:28 (MT 13) 16:39
18	05:41 20:33	06:11 19:58	06:43 19:07	08:37 (MT 13) 18:16	07:15 18:16	08:29 (MT 13) 16:38
19	05:41 20:32	06:12 19:56	06:44 19:05	08:35 (MT 13) 18:15	07:16 18:15	08:30 (MT 13) 16:38
20	05:42 20:31	06:13 19:55	06:45 19:03	08:34 (MT 13) 18:13	07:18 18:13	08:32 (MT 13) 16:37
21	05:43 20:30	06:14 19:53	06:46 19:01	08:32 (MT 13) 18:12	07:19 18:12	08:33 (MT 13) 16:36
22	05:44 20:30	06:15 19:52	06:47 19:00	08:31 (MT 13) 18:10	07:20 18:10	08:34 (MT 13) 16:36
23	05:45 20:29	06:16 19:50	06:48 18:58	08:30 (MT 13) 18:09	07:21 18:09	08:36 (MT 13) 16:35
24	05:46 20:28	06:17 19:49	06:49 18:56	08:29 (MT 13) 18:07	07:22 18:07	08:38 (MT 13) 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	08:28 (MT 13) 18:06	06:23 18:06	07:42 (MT 13) 16:34
26	05:48 20:26	06:19 19:45	06:51 18:53	08:27 (MT 13) 18:04	06:25 18:04	07:47 (MT 13) 16:33
27	05:49 20:25	06:20 19:44	06:52 18:51	08:27 (MT 13) 18:03	06:26 18:03	08:03 (MT 13) 16:33
28	05:50 20:24	06:21 19:42	06:53 18:49	08:27 (MT 13) 18:02	06:27 18:02	07:03 16:32
29	05:51 20:23	06:22 19:41	06:54 18:48	08:26 (MT 13) 18:01	06:28 18:01	07:04 16:32
30	05:52 20:22	06:23 19:39	06:55 18:46	08:25 (MT 13) 18:00	06:29 18:00	07:05 16:31
31	05:53 20:21	06:24 19:37	06:56 18:45	08:25 (MT 13) 17:59	06:30 17:59	07:06 16:31
Potential sun hours	461	429	375	344	296	285
Total, worst case		38	1278		1471	
Sun reduction		0,67	0,58		0,44	
Oper. time red.		0,70	0,70		0,70	
Wind dir. red.		0,61	0,65		0,66	
Total reduction		0,29	0,26		0,20	
Total, real		11	338		298	

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: R25 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

January		February		March		April		May		June		
1	07:28 16:40	10:03 (MT 13) 11:11 (MT 13)	07:14 17:15	06:37 17:50		06:45 19:25	05:58 19:58		05:29 20:28		19:14 (MT 11) 19:36 (MT 11)	
2	07:28 16:41	10:04 (MT 13) 11:11 (MT 13)	07:13 17:16	06:36 17:51		06:44 19:26	05:57 19:59		05:28 20:29	21	19:15 (MT 11) 19:36 (MT 11)	
3	07:28 16:42	10:05 (MT 13) 11:11 (MT 13)	07:12 17:17	06:34 17:52		06:42 19:27	05:56 20:00		05:28 20:30	20	19:16 (MT 11) 19:36 (MT 11)	
4	07:28 16:43	10:05 (MT 13) 11:11 (MT 13)	07:11 17:19	06:32 17:53		06:40 19:28	05:54 20:01		05:27 20:31	19	19:16 (MT 11) 19:35 (MT 11)	
5	07:28 16:43	10:06 (MT 13) 11:12 (MT 13)	07:10 17:20	06:31 17:55		06:39 19:30	05:53 20:02		05:27 20:31	17	19:17 (MT 11) 19:34 (MT 11)	
6	07:28 16:44	10:07 (MT 13) 11:12 (MT 13)	07:09 17:21	06:29 17:56		06:37 19:31	05:52 20:03	8	19:20 (MT 11) 19:17 (MT 11)	16	19:18 (MT 11) 19:34 (MT 11)	
7	07:28 16:45	10:08 (MT 13) 11:12 (MT 13)	07:08 17:23	06:28 17:57		06:35 19:32	05:51 20:05	14	19:31 (MT 11) 19:33 (MT 11)	15	19:18 (MT 11) 19:33 (MT 11)	
8	07:28 16:46	10:08 (MT 13) 11:11 (MT 13)	07:06 17:24	06:26 17:58	13	07:03 (MT 12) 07:16 (MT 12)	06:34 19:33	05:50 20:06	18	19:32 (MT 11) 19:32 (MT 11)	14	19:19 (MT 11) 19:33 (MT 11)
9	07:28 16:47	10:09 (MT 13) 11:11 (MT 13)	07:05 17:25	06:24 17:59	18	07:00 (MT 12) 07:18 (MT 12)	06:32 19:34	05:48 20:07	20	19:13 (MT 11) 19:33 (MT 11)	12	19:20 (MT 11) 19:32 (MT 11)
10	07:28 16:48	10:10 (MT 13) 11:12 (MT 13)	07:04 17:26	06:23 18:00	21	06:59 (MT 12) 07:20 (MT 12)	06:30 19:35	05:47 20:08	22	19:12 (MT 11) 19:34 (MT 11)	10	19:22 (MT 11) 19:32 (MT 11)
11	07:28 16:50	10:11 (MT 13) 11:12 (MT 13)	07:03 17:28	06:21 18:02	23	06:57 (MT 12) 07:20 (MT 12)	06:29 19:36	05:46 20:09	24	19:11 (MT 11) 19:35 (MT 11)	8	19:23 (MT 11) 19:31 (MT 11)
12	07:27 16:51	10:11 (MT 13) 11:11 (MT 13)	07:02 17:29	06:19 18:03	26	06:55 (MT 12) 07:21 (MT 12)	06:27 19:37	05:45 20:10	25	19:11 (MT 11) 19:36 (MT 11)	7	19:25 (MT 11) 19:26 (MT 11)
13	07:27 16:52	10:12 (MT 13) 11:11 (MT 13)	07:00 17:30	06:18 18:04	27	06:55 (MT 12) 07:22 (MT 12)	06:25 19:38	05:44 20:11	27	19:10 (MT 11) 19:37 (MT 11)	3	19:25 (MT 11) 19:29 (MT 11)
14	07:27 16:53	10:13 (MT 13) 11:10 (MT 13)	06:59 17:31	06:16 18:05	28	06:54 (MT 12) 07:22 (MT 12)	06:24 19:39	05:43 20:12	27	19:10 (MT 11) 19:37 (MT 11)		19:25 (MT 11) 19:36 (MT 11)
15	07:26 16:54	10:14 (MT 13) 11:10 (MT 13)	06:58 17:33	06:14 18:06	28	06:53 (MT 12) 07:21 (MT 12)	06:22 19:40	05:42 20:13	28	19:09 (MT 11) 19:37 (MT 11)		19:25 (MT 11) 19:37 (MT 11)
16	07:26 16:55	10:15 (MT 13) 11:09 (MT 13)	06:56 17:34	06:13 18:07	29	06:52 (MT 12) 07:21 (MT 12)	06:21 19:42	05:41 20:14	28	19:09 (MT 11) 19:37 (MT 11)		19:25 (MT 11) 19:37 (MT 11)
17	07:25 16:56	10:16 (MT 13) 11:09 (MT 13)	06:55 17:35	06:11 18:08	28	06:53 (MT 12) 07:21 (MT 12)	06:19 19:43	05:40 20:15	29	19:09 (MT 11) 19:38 (MT 11)		19:25 (MT 11) 19:38 (MT 11)
18	07:25 16:57	10:17 (MT 13) 11:08 (MT 13)	06:54 17:36	06:09 18:10	28	06:52 (MT 12) 07:20 (MT 12)	06:17 19:44	05:39 20:16	29	19:10 (MT 11) 19:39 (MT 11)		19:25 (MT 11) 19:38 (MT 11)
19	07:24 16:59	10:19 (MT 13) 11:08 (MT 13)	06:52 17:38	06:07 18:11	27	06:52 (MT 12) 07:19 (MT 12)	06:16 19:45	05:38 20:17	30	19:09 (MT 11) 19:39 (MT 11)		19:25 (MT 11) 19:38 (MT 11)
20	07:24 17:00	10:20 (MT 13) 11:06 (MT 13)	06:51 17:39	06:06 18:12	26	06:53 (MT 12) 07:19 (MT 12)	06:14 19:46	05:37 20:18	29	19:09 (MT 11) 19:38 (MT 11)		19:25 (MT 11) 19:39 (MT 11)
21	07:23 17:01	10:21 (MT 13) 11:05 (MT 13)	06:49 17:40	06:04 18:13	24	06:54 (MT 12) 07:18 (MT 12)	06:13 19:47	05:36 20:19	29	19:09 (MT 11) 19:38 (MT 11)		19:25 (MT 11) 19:39 (MT 11)
22	07:22 17:02	10:23 (MT 13) 11:03 (MT 13)	06:48 17:41	06:02 18:14	22	06:54 (MT 12) 07:16 (MT 12)	06:11 19:48	05:35 20:20	29	19:09 (MT 11) 19:38 (MT 11)		19:25 (MT 11) 19:39 (MT 11)
23	07:22 17:03	10:25 (MT 13) 11:02 (MT 13)	06:46 17:43	06:01 18:15	19	06:55 (MT 12) 07:14 (MT 12)	06:10 19:49	05:34 20:21	29	19:10 (MT 11) 19:39 (MT 11)		19:25 (MT 11) 19:39 (MT 11)
24	07:21 17:05	10:27 (MT 13) 11:00 (MT 13)	06:45 17:44	05:59 18:16	14	06:58 (MT 12) 07:12 (MT 12)	06:08 19:50	05:34 20:22	28	19:10 (MT 11) 19:38 (MT 11)		19:25 (MT 11) 19:39 (MT 11)
25	07:20 17:06	10:30 (MT 13) 10:57 (MT 13)	06:43 17:45	05:57 18:17	6	07:01 (MT 12) 07:07 (MT 12)	06:07 19:51	05:33 20:23	28	19:10 (MT 11) 19:38 (MT 11)		19:25 (MT 11) 19:40 (MT 11)
26	07:19 17:07	10:33 (MT 13) 10:54 (MT 13)	06:42 17:46	05:56 18:18			06:05 19:53	05:32 20:23	27	19:11 (MT 11) 19:38 (MT 11)		19:25 (MT 11) 19:40 (MT 11)
27	07:19 17:08	10:38 (MT 13) 10:48 (MT 13)	06:40 17:47	05:54 18:20			06:04 19:54	05:32 20:24	26	19:11 (MT 11) 19:37 (MT 11)		19:25 (MT 11) 19:40 (MT 11)
28	07:18 17:10		06:39 17:49	05:52 18:21			06:03 19:55	05:31 20:25	26	19:11 (MT 11) 19:37 (MT 11)		19:25 (MT 11) 19:40 (MT 11)
29	07:17 17:11			06:50 19:22			06:01 19:56	05:30 20:26	25	19:12 (MT 11) 19:37 (MT 11)		19:25 (MT 11) 19:40 (MT 11)
30	07:16 17:12			06:49 19:23			06:00 19:57	05:30 20:27	24	19:12 (MT 11) 19:36 (MT 11)	5	19:25 (MT 11) 19:33 (MT 11)
31	07:15 17:14			06:47 19:24				05:29 20:28	23	19:13 (MT 11) 19:36 (MT 11)		
Potential sun hours	295	296	369	407	400	450	652	455	190			
Total, worst case	1407			0,44			0,47		0,54			
Sun reduction	0,44			0,70			0,70		0,70			
Oper. time red.	0,70			0,63			0,65		0,65			
Wind dir. red.	0,71			0,22			0,21		0,25			
Total reduction	0,22			80			139		47			
Total, real	311											

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: R25 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	19:27 (MT 11)	05:54	19:22 (MT 11)	06:25	06:56	07:35 (MT 12)	06:32	07:08	09:53 (MT 13)		
	20:39	8 19:35 (MT 11)	20:20	24 19:46 (MT 11)	19:36	18:44	26 08:01 (MT 12)	16:56	16:31	61 10:54 (MT 13)		
2	05:29	19:26 (MT 11)	05:55	19:22 (MT 11)	06:26	06:58	07:35 (MT 12)	06:33	07:09	09:53 (MT 13)		
	20:39	10 19:36 (MT 11)	20:19	24 19:46 (MT 11)	19:34	18:42	24 07:59 (MT 12)	16:55	16:31	62 10:55 (MT 13)		
3	05:30	19:26 (MT 11)	05:56	19:23 (MT 11)	06:27	06:59	07:36 (MT 12)	06:34	07:10	09:53 (MT 13)		
	20:39	11 19:37 (MT 11)	20:18	22 19:45 (MT 11)	19:32	18:41	22 07:58 (MT 12)	16:54	16:30	62 10:55 (MT 13)		
4	05:31	19:26 (MT 11)	05:57	19:24 (MT 11)	06:28	07:00	07:37 (MT 12)	06:35	07:11	09:53 (MT 13)		
	20:39	13 19:39 (MT 11)	20:16	20 19:44 (MT 11)	19:31	18:39	19 07:56 (MT 12)	16:53	16:30	63 10:56 (MT 13)		
5	05:31	19:25 (MT 11)	05:58	19:26 (MT 11)	06:29	07:01	07:38 (MT 12)	06:37	07:12	09:53 (MT 13)		
	20:39	14 19:39 (MT 11)	20:15	16 19:42 (MT 11)	19:29	18:37	16 07:54 (MT 12)	16:51	16:30	64 10:57 (MT 13)		
6	05:32	19:24 (MT 11)	05:59	19:27 (MT 11)	06:31	07:02	07:41 (MT 12)	06:38	07:13	09:53 (MT 13)		
	20:39	16 19:40 (MT 11)	20:14	13 19:40 (MT 11)	19:27	18:36	9 07:50 (MT 12)	16:50	16:30	65 10:58 (MT 13)		
7	05:32	19:23 (MT 11)	06:00	19:31 (MT 11)	06:32	07:03	07:42	06:39	07:14	09:53 (MT 13)		
	20:38	17 19:40 (MT 11)	20:13	5 19:36 (MT 11)	19:26	18:34		16:49	16:30	66 10:59 (MT 13)		
8	05:33	19:23 (MT 11)	06:01		06:33	07:04		06:40	07:15	09:53 (MT 13)		
	20:38	19 19:42 (MT 11)	20:12		19:24	18:32		16:48	16:30	66 10:59 (MT 13)		
9	05:34	19:23 (MT 11)	06:02		06:34	07:05		06:42	07:15	09:54 (MT 13)		
	20:37	20 19:43 (MT 11)	20:10		19:22	18:31		16:47	16:30	66 11:00 (MT 13)		
10	05:34	19:22 (MT 11)	06:03		06:35	07:06		06:43	07:16	09:53 (MT 13)		
	20:37	21 19:43 (MT 11)	20:09		19:20	18:29		16:46	16:30	67 11:00 (MT 13)		
11	05:35	19:22 (MT 11)	06:04		06:36	07:07		06:44	07:17	09:53 (MT 13)		
	20:37	22 19:44 (MT 11)	20:08		19:19	18:27		16:45	16:30	68 11:01 (MT 13)		
12	05:36	19:22 (MT 11)	06:05		06:37	07:08		06:45	07:18	09:54 (MT 13)		
	20:36	23 19:45 (MT 11)	20:06		19:17	18:26		16:44	16:30	67 11:01 (MT 13)		
13	05:37	19:21 (MT 11)	06:06		06:38	07:10		06:46	07:19	09:54 (MT 13)		
	20:36	23 19:44 (MT 11)	20:05		19:15	18:24		16:43	16:30	68 11:02 (MT 13)		
14	05:37	19:21 (MT 11)	06:07		06:39	07:11		06:48	07:20	09:55 (MT 13)		
	20:35	24 19:45 (MT 11)	20:03		19:14	18:22		16:42	16:30	68 11:03 (MT 13)		
15	05:38	19:21 (MT 11)	06:08		06:40	07:12		06:49	07:20	09:55 (MT 13)		
	20:35	25 19:46 (MT 11)	20:02		19:12	18:21		16:41	10 10:21 (MT 13)	16:30	68 11:03 (MT 13)	
16	05:39	19:21 (MT 11)	06:09		06:41	07:13		06:50	10:06 (MT 13)	07:21	09:55 (MT 13)	
	20:34	26 19:47 (MT 11)	20:01		19:10	18:19		16:40	21 10:27 (MT 13)	16:31	69 11:04 (MT 13)	
17	05:40	19:21 (MT 11)	06:10		06:42	07:14		06:51	10:03 (MT 13)	07:22	09:56 (MT 13)	
	20:33	26 19:47 (MT 11)	19:59		19:08	18:18		16:39	28 10:31 (MT 13)	16:31	69 11:05 (MT 13)	
18	05:41	19:20 (MT 11)	06:11		06:43	07:15		06:53	10:01 (MT 13)	07:22	09:56 (MT 13)	
	20:33	27 19:47 (MT 11)	19:58		19:07	1 07:52 (MT 12)	18:16	16:38	33 10:34 (MT 13)	16:31	69 11:05 (MT 13)	
19	05:41	19:20 (MT 11)	06:12		06:44	07:16		06:54	09:59 (MT 13)	07:23	09:57 (MT 13)	
	20:32	27 19:47 (MT 11)	19:56		19:05	12 07:57 (MT 12)	18:15	16:38	37 10:36 (MT 13)	16:32	69 11:06 (MT 13)	
20	05:42	19:20 (MT 11)	06:13		06:45	07:17		06:55	09:58 (MT 13)	07:24	09:57 (MT 13)	
	20:31	28 19:48 (MT 11)	19:55		19:03	17 07:59 (MT 12)	18:13	16:37	40 10:38 (MT 13)	16:32	68 11:06 (MT 13)	
21	05:43	19:20 (MT 11)	06:14		06:46	07:19		06:56	09:57 (MT 13)	07:24	09:58 (MT 13)	
	20:30	28 19:48 (MT 11)	19:53		19:01	21 08:01 (MT 12)	18:12	16:36	44 10:41 (MT 13)	16:32	68 11:06 (MT 13)	
22	05:44	19:20 (MT 11)	06:15		06:47	07:20		06:57	09:56 (MT 13)	07:25	09:58 (MT 13)	
	20:30	29 19:49 (MT 11)	19:52		19:00	24 08:02 (MT 12)	18:10	16:35	46 10:42 (MT 13)	16:33	68 11:06 (MT 13)	
23	05:45	19:20 (MT 11)	06:16		06:48	07:21		06:59	09:55 (MT 13)	07:25	09:59 (MT 13)	
	20:29	29 19:49 (MT 11)	19:50		18:58	25 08:02 (MT 12)	18:09	16:35	49 10:44 (MT 13)	16:33	68 11:07 (MT 13)	
24	05:46	19:20 (MT 11)	06:17		06:49	07:22		07:00	09:54 (MT 13)	07:26	09:59 (MT 13)	
	20:28	29 19:49 (MT 11)	19:49		18:56	27 08:03 (MT 12)	18:07	16:34	51 10:45 (MT 13)	16:34	68 11:07 (MT 13)	
25	05:47	19:19 (MT 11)	06:18		06:50	07:23		07:01	09:54 (MT 13)	07:26	10:00 (MT 13)	
	20:27	29 19:48 (MT 11)	19:47		18:54	28 08:03 (MT 12)	17:06	16:34	53 10:47 (MT 13)	16:35	69 11:09 (MT 13)	
26	05:48	19:19 (MT 11)	06:19		06:51	07:24	06:25	07:02	09:54 (MT 13)	07:27	10:00 (MT 13)	
	20:26	29 19:48 (MT 11)	19:45		18:53	29 08:03 (MT 12)	17:04	16:33	54 10:48 (MT 13)	16:35	69 11:09 (MT 13)	
27	05:49	19:19 (MT 11)	06:20		06:52	07:25	06:26	07:03	09:53 (MT 13)	07:27	10:00 (MT 13)	
	20:25	29 19:48 (MT 11)	19:44		18:51	28 08:03 (MT 12)	17:03	16:33	56 10:49 (MT 13)	16:36	69 11:09 (MT 13)	
28	05:50	19:20 (MT 11)	06:21		06:53	07:26	06:27	07:04	09:53 (MT 13)	07:27	10:01 (MT 13)	
	20:24	28 19:48 (MT 11)	19:42		18:49	29 08:03 (MT 12)	17:02	16:32	57 10:50 (MT 13)	16:37	68 11:09 (MT 13)	
29	05:51	19:20 (MT 11)	06:22		06:54	07:24	06:28	07:05	09:52 (MT 13)	07:27	10:02 (MT 13)	
	20:23	28 19:48 (MT 11)	19:41		18:48	28 08:02 (MT 12)	17:00	16:32	59 10:51 (MT 13)	16:37	68 11:10 (MT 13)	
30	05:52	19:20 (MT 11)	06:23		06:55	07:24	06:29	07:06	09:52 (MT 13)	07:28	10:02 (MT 13)	
	20:22	27 19:47 (MT 11)	19:39		18:46	28 08:02 (MT 12)	16:59	16:31	60 10:52 (MT 13)	16:38	68 11:10 (MT 13)	
31	05:53	19:21 (MT 11)	06:24				06:31		07:28	10:03 (MT 13)		
	20:21	26 19:47 (MT 11)	19:37				16:58		16:39	67 11:10 (MT 13)		
Potential sun hours	461		429		375		344		296		285	
Total, worst case	711		124		297		116		698		2075	
Sun reduction	0,61		0,67		0,58		0,44		0,41		0,36	
Oper. time red.	0,70		0,70		0,70		0,70		0,70		0,70	
Wind dir. red.	0,65		0,65		0,63		0,63		0,71		0,71	
Total reduction	0,28		0,30		0,26		0,19		0,20		0,18	
Total, real	197		38		77		23		142		378	

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: R26 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28	07:14	06:37	06:45	05:58	06:24 (MT 14) 05:29
	16:40	17:15	17:50	19:25	19:58	27 06:51 (MT 14) 20:28
2	07:28	07:13	06:36	06:44	05:57	06:25 (MT 14) 05:28
	16:41	17:16	17:51	19:26	19:59	26 06:51 (MT 14) 20:29
3	07:28	07:12	06:34	06:42	05:56	06:25 (MT 14) 05:28
	16:42	17:17	17:52	19:27	20:00	24 06:49 (MT 14) 20:30
4	07:28	07:11	06:32	06:40	05:55	06:26 (MT 14) 05:27
	16:43	17:19	17:54	19:28	20:01	22 06:48 (MT 14) 20:31
5	07:28	07:10	06:31	06:39	05:53	06:27 (MT 14) 05:27
	16:43	17:20	17:55	19:30	20:02	20 06:47 (MT 14) 20:31
6	07:28	07:09	06:29	06:37	05:52	06:28 (MT 14) 05:27
	16:44	17:21	17:56	19:31	20:03	18 06:46 (MT 14) 20:32
7	07:28	07:08	06:28	06:35	05:51	06:30 (MT 14) 05:26
	16:45	17:23	17:57	19:32	20:05	15 06:45 (MT 14) 20:33
8	07:28	07:07	07:30 (MT 13) 06:26	06:34	05:50	06:33 (MT 14) 05:26
	16:46	17:24	11 07:41 (MT 13) 17:58	19:33	20:06	9 06:42 (MT 14) 20:33
9	07:28	07:05	07:27 (MT 13) 06:24	06:32	05:48	05:26
	16:47	17:25	16 07:43 (MT 13) 17:59	19:34	20:07	20:34
10	07:28	07:04	07:25 (MT 13) 06:23	06:30	05:47	05:26
	16:48	17:26	20 07:45 (MT 13) 18:01	19:35	20:08	20:35
11	07:28	07:03	07:24 (MT 13) 06:21	06:29	05:46	05:26
	16:50	17:28	23 07:47 (MT 13) 18:02	19:36	20:09	20:35
12	07:27	07:02	07:22 (MT 13) 06:19	06:27	05:45	05:25
	16:51	17:29	25 07:47 (MT 13) 18:03	19:37	20:10	20:36
13	07:27	07:00	07:22 (MT 13) 06:18	06:25	05:44	05:25
	16:52	17:30	26 07:48 (MT 13) 18:04	19:38	20:11	20:36
14	07:27	06:59	07:22 (MT 13) 06:16	06:24	05:43	05:25
	16:53	17:32	27 07:49 (MT 13) 18:05	19:39	20:12	20:37
15	07:26	06:58	07:20 (MT 13) 06:14	06:22	05:42	05:25
	16:54	17:33	29 07:49 (MT 13) 18:06	19:41	20:13	20:37
16	07:26	06:56	07:21 (MT 13) 06:13	06:21	05:41	05:25
	16:55	17:34	29 07:50 (MT 13) 18:07	19:42	20:14	20:37
17	07:25	06:55	07:21 (MT 13) 06:11	06:19	06:38 (MT 14) 05:40	05:25
	16:56	17:35	29 07:50 (MT 13) 18:09	19:43	6 06:44 (MT 14) 20:15	20:38
18	07:25	06:54	07:20 (MT 13) 06:09	06:17	06:36 (MT 14) 05:39	05:25
	16:57	17:37	30 07:50 (MT 13) 18:10	19:44	11 06:47 (MT 14) 20:16	20:38
19	07:24	06:52	07:20 (MT 13) 06:08	06:16	06:35 (MT 14) 05:38	05:25
	16:59	17:38	30 07:50 (MT 13) 18:11	19:45	14 06:49 (MT 14) 20:17	20:38
20	07:24	06:51	07:20 (MT 13) 06:06	06:14	06:33 (MT 14) 05:37	05:25
	17:00	17:39	29 07:49 (MT 13) 18:12	19:46	17 06:50 (MT 14) 20:18	20:39
21	07:23	06:49	07:21 (MT 13) 06:04	06:13	06:32 (MT 14) 05:36	05:26
	17:01	17:40	28 07:49 (MT 13) 18:13	19:47	19 06:51 (MT 14) 20:19	20:39
22	07:22	06:48	07:21 (MT 13) 06:02	06:11	06:30 (MT 14) 05:35	05:26
	17:02	17:41	27 07:48 (MT 13) 18:14	19:48	22 06:52 (MT 14) 20:20	20:39
23	07:22	06:46	07:22 (MT 13) 06:01	06:10	06:29 (MT 14) 05:35	05:26
	17:04	17:43	25 07:47 (MT 13) 18:15	19:49	23 06:52 (MT 14) 20:21	20:39
24	07:21	06:45	07:22 (MT 13) 05:59	06:08	06:28 (MT 14) 05:34	05:26
	17:05	17:44	24 07:46 (MT 13) 18:16	19:50	25 06:53 (MT 14) 20:22	20:39
25	07:20	06:43	07:24 (MT 13) 05:57	06:07	06:26 (MT 14) 05:33	05:27
	17:06	17:45	21 07:45 (MT 13) 18:17	19:52	27 06:53 (MT 14) 20:23	20:40
26	07:20	06:42	07:25 (MT 13) 05:56	06:05	06:25 (MT 14) 05:32	05:27
	17:07	17:46	18 07:43 (MT 13) 18:19	19:53	28 06:53 (MT 14) 20:23	20:40
27	07:19	06:40	07:28 (MT 13) 05:54	06:04	06:24 (MT 14) 05:32	05:27
	17:09	17:48	12 07:40 (MT 13) 18:20	19:54	28 06:52 (MT 14) 20:24	20:40
28	07:18	06:39	05:52	06:03	06:24 (MT 14) 05:31	05:28
	17:10	17:49	18:21	19:55	28 06:52 (MT 14) 20:25	20:40
29	07:17		06:50	06:01	06:24 (MT 14) 05:30	05:28
	17:11		19:22	19:56	28 06:52 (MT 14) 20:26	20:40
30	07:16		06:49	06:00	06:24 (MT 14) 05:30	05:29
	17:12		19:23	19:57	27 06:51 (MT 14) 20:27	20:40
31	07:15		06:47		05:29	
	17:14		19:24		20:28	
Potential sun hours	295	296	369	400	450	455
Total, worst case		479		303	161	
Sun reduction		0,46		0,48	0,47	
Oper. time red.		0,70		0,70	0,70	
Wind dir. red.		0,66		0,57	0,57	
Total reduction		0,21		0,19	0,19	
Total, real		101		58	30	

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: R26 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

July		August		September		October		November		December	
1	05:29	05:54		06:25	06:56			06:32	06:55 (MT 13)	07:08	
	20:40	20:20		19:36	18:44			16:56	19 07:14 (MT 13)	16:31	
2	05:30	05:55		06:26	06:58			06:33	06:57 (MT 13)	07:09	
	20:39	20:19		19:34	18:42			16:55	15 07:12 (MT 13)	16:31	
3	05:30	05:56		06:27	06:59			06:34	06:59 (MT 13)	07:10	
	20:39	20:18		19:32	18:41			16:54	10 07:09 (MT 13)	16:31	
4	05:31	05:57		06:46 (MT 14)	06:29	07:00		06:35		07:11	
	20:39	20:16	3	06:49 (MT 14)	19:31	18:39		16:53		16:30	
5	05:31	05:58		06:41 (MT 14)	06:30	07:01		06:37		07:12	
	20:39	20:15	12	06:53 (MT 14)	19:29	18:37		16:51		16:30	
6	05:32	05:59		06:39 (MT 14)	06:31	07:02		06:38		07:13	
	20:39	20:14	16	06:55 (MT 14)	19:27	18:36		16:50		16:30	
7	05:32	06:00		06:38 (MT 14)	06:32	07:03		06:39		07:14	
	20:38	20:13	18	06:56 (MT 14)	19:26	18:34		16:49		16:30	
8	05:33	06:01		06:36 (MT 14)	06:33	07:04		06:40		07:15	
	20:38	20:12	21	06:57 (MT 14)	19:24	18:32		16:48		16:30	
9	05:34	06:02		06:35 (MT 14)	06:34	07:05		06:42		07:15	
	20:38	20:10	23	06:58 (MT 14)	19:22	18:31		16:47		16:30	
10	05:34	06:03		06:34 (MT 14)	06:35	07:06		06:43		07:16	
	20:37	20:09	25	06:59 (MT 14)	19:21	18:29		16:46		16:30	
11	05:35	06:04		06:34 (MT 14)	06:36	07:07		06:44		07:17	
	20:37	20:08	25	06:59 (MT 14)	19:19	18:27		16:45		16:30	
12	05:36	06:05		06:33 (MT 14)	06:37	07:08		06:45		07:18	
	20:36	20:06	27	07:00 (MT 14)	19:17	18:26		16:44		16:30	
13	05:37	06:06		06:32 (MT 14)	06:38	07:10		06:47		07:19	
	20:36	20:05	28	07:00 (MT 14)	19:15	18:24		16:43		16:30	
14	05:37	06:07		06:32 (MT 14)	06:39	07:11		06:48		07:20	
	20:35	20:04	28	07:00 (MT 14)	19:14	18:22	8	08:02 (MT 13)	06:48	16:42	16:30
15	05:38	06:08		06:32 (MT 14)	06:40	07:12		07:59 (MT 13)	06:49	07:20	
	20:35	20:02	28	07:00 (MT 14)	19:12	18:21	15	08:14 (MT 13)	16:41	16:30	
16	05:39	06:09		06:32 (MT 14)	06:41	07:13		07:57 (MT 13)	06:50	07:21	
	20:34	20:01	28	07:00 (MT 14)	19:10	18:19	19	08:16 (MT 13)	16:40	16:31	
17	05:40	06:10		06:32 (MT 14)	06:42	07:14		07:55 (MT 13)	06:51	07:22	
	20:33	19:59	28	07:00 (MT 14)	19:08	18:18	22	08:17 (MT 13)	16:39	16:31	
18	05:41	06:11		06:33 (MT 14)	06:43	07:15		07:53 (MT 13)	06:53	07:22	08:30 (MT 10)
	20:33	19:58	26	06:59 (MT 14)	19:07	18:16	25	08:18 (MT 13)	16:38	16:31	1 08:31 (MT 10)
19	05:41	06:12		06:34 (MT 14)	06:44	07:16		07:52 (MT 13)	06:54	07:23	08:30 (MT 10)
	20:32	19:56	25	06:59 (MT 14)	19:05	18:15	26	08:18 (MT 13)	16:38	16:32	3 08:33 (MT 10)
20	05:42	06:13		06:35 (MT 14)	06:45	07:18		07:52 (MT 13)	06:55	07:24	08:30 (MT 10)
	20:31	19:55	23	06:58 (MT 14)	19:03	18:13	28	08:20 (MT 13)	16:37	16:32	5 08:35 (MT 10)
21	05:43	06:14		06:36 (MT 14)	06:46	07:19		07:51 (MT 13)	06:56	07:24	08:30 (MT 10)
	20:30	19:53	21	06:57 (MT 14)	19:01	18:12	29	08:20 (MT 13)	16:36	16:33	5 08:35 (MT 10)
22	05:44	06:15		06:37 (MT 14)	06:47	07:20		07:51 (MT 13)	06:57	07:25	08:31 (MT 10)
	20:30	19:52	19	06:56 (MT 14)	19:00	18:10	29	08:20 (MT 13)	16:36	16:33	5 08:36 (MT 10)
23	05:45	06:16		06:38 (MT 14)	06:48	07:21		07:50 (MT 13)	06:59	07:25	08:31 (MT 10)
	20:29	19:50	17	06:55 (MT 14)	18:58	18:09	30	08:20 (MT 13)	16:35	16:34	5 08:36 (MT 10)
24	05:46	06:17		06:39 (MT 14)	06:49	07:22		07:50 (MT 13)	07:00	07:26	08:31 (MT 10)
	20:28	19:49	14	06:53 (MT 14)	18:56	18:07	29	08:19 (MT 13)	16:34	16:34	5 08:36 (MT 10)
25	05:47	06:18		06:40 (MT 14)	06:50	06:23		06:50 (MT 13)	07:01	07:26	08:33 (MT 10)
	20:27	19:47	11	06:51 (MT 14)	18:54	17:06	30	07:20 (MT 13)	16:34	16:35	3 08:36 (MT 10)
26	05:48	06:19		06:41 (MT 14)	06:51	06:25		06:50 (MT 13)	07:02	07:27	
	20:26	19:46	6	06:47 (MT 14)	18:53	17:04	29	07:19 (MT 13)	16:33	16:35	
27	05:49	06:20			06:52	06:26		06:50 (MT 13)	07:03	07:27	
	20:25	19:44			18:51	17:03	29	07:19 (MT 13)	16:33	16:36	
28	05:50	06:21			06:53	06:27		06:51 (MT 13)	07:04	07:27	
	20:24	19:42			18:49	17:02	28	07:19 (MT 13)	16:32	16:37	
29	05:51	06:22			06:54	06:28		06:52 (MT 13)	07:05	07:28	
	20:23	19:41			18:48	17:00	26	07:18 (MT 13)	16:32	16:37	
30	05:52	06:23			06:55	06:29		06:52 (MT 13)	07:06	07:28	
	20:22	19:39			18:46	16:59	24	07:16 (MT 13)	16:31	16:38	
31	05:53	06:24				06:31		06:53 (MT 13)		07:28	
	20:21	19:37				16:58	22	07:15 (MT 13)		16:39	
Potential sun hours	461	429		375	344			296		285	
Total, worst case			472			448		44			32
Sun reduction			0,67			0,44		0,41			0,36
Oper. time red.			0,70			0,70		0,70			0,70
Wind dir. red.			0,57			0,66		0,66			0,66
Total reduction			0,27			0,20		0,19			0,17
Total, real			126			90		8			5

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: R27 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	07:56 (MT 10) 06:37 08:09 (MT 10) 17:50	06:56 (MT 13) 06:45 07:07 (MT 13) 19:25	05:58 19:58	06:18 (MT 14) 05:29 20:28
2	07:28 16:41	07:13 17:16	07:58 (MT 10) 06:36 08:07 (MT 10) 17:51	06:55 (MT 13) 06:44 07:09 (MT 13) 19:26	05:57 19:59	06:17 (MT 14) 05:28 20:29
3	07:28 16:42	07:12 17:17	06:34 17:52	06:53 (MT 13) 06:42 07:10 (MT 13) 19:27	05:56 20:00	06:15 (MT 14) 05:28 20:30
4	07:28 16:43	07:11 17:19	06:32 17:54	06:52 (MT 13) 06:40 07:11 (MT 13) 19:28	05:55 20:01	06:14 (MT 14) 05:27 20:31
5	07:28 16:44	07:10 17:20	06:31 17:55	06:50 (MT 13) 06:39 07:11 (MT 13) 19:30	05:53 20:02	06:14 (MT 14) 05:27 20:31
6	07:28 16:44	07:09 17:21	06:29 17:56	06:48 (MT 13) 06:37 07:11 (MT 13) 19:31	05:52 20:04	06:15 (MT 14) 05:27 20:32
7	07:28 16:45	07:52 (MT 10) 07:08 07:59 (MT 10) 17:23	06:28 17:57	06:47 (MT 13) 06:35 07:11 (MT 13) 19:32	05:51 20:05	06:16 (MT 14) 05:26 20:33
8	07:28 16:46	07:50 (MT 10) 07:07 08:00 (MT 10) 17:24	06:26 17:58	06:46 (MT 13) 06:34 07:10 (MT 13) 19:33	05:50 20:06	06:17 (MT 14) 05:26 20:33
9	07:28 16:47	07:50 (MT 10) 07:05 08:02 (MT 10) 17:25	06:24 17:59	06:46 (MT 13) 06:32 07:10 (MT 13) 19:34	05:48 20:07	06:18 (MT 14) 05:26 20:34
10	07:28 16:49	07:50 (MT 10) 07:04 08:04 (MT 10) 17:26	06:23 18:01	06:47 (MT 13) 06:30 07:09 (MT 13) 19:35	05:47 20:08	06:20 (MT 14) 05:26 20:35
11	07:28 16:50	07:50 (MT 10) 07:03 08:05 (MT 10) 17:28	06:21 18:02	06:47 (MT 13) 06:29 07:08 (MT 13) 19:36	05:46 20:09	06:20 (MT 14) 05:26 20:35
12	07:27 16:51	07:49 (MT 10) 07:02 08:06 (MT 10) 17:29	06:19 18:03	06:48 (MT 13) 06:27 07:06 (MT 13) 19:37	05:45 20:10	06:21 (MT 14) 05:25 20:36
13	07:27 16:52	07:49 (MT 10) 07:00 08:07 (MT 10) 17:30	06:18 18:04	06:50 (MT 13) 06:25 07:05 (MT 13) 19:38	05:44 20:11	06:22 (MT 14) 05:25 20:36
14	07:27 16:53	07:48 (MT 10) 06:59 08:07 (MT 10) 17:32	06:16 18:05	06:52 (MT 13) 06:24 07:02 (MT 13) 19:39	05:43 20:12	06:23 (MT 14) 05:25 20:37
15	07:26 16:54	07:48 (MT 10) 06:58 08:09 (MT 10) 17:33	06:14 18:06	06:22 19:41	05:42 20:13	06:24 (MT 14) 05:25 20:37
16	07:26 16:55	07:47 (MT 10) 06:56 08:09 (MT 10) 17:34	06:13 18:07	06:21 19:42	05:41 20:14	06:25 (MT 14) 05:25 20:37
17	07:25 16:56	07:48 (MT 10) 06:55 08:10 (MT 10) 17:35	06:11 18:09	06:19 19:43	05:40 20:15	06:26 (MT 14) 05:25 20:38
18	07:25 16:57	07:47 (MT 10) 06:54 08:11 (MT 10) 17:37	06:09 18:10	06:17 19:44	05:39 20:16	06:27 (MT 14) 05:25 20:38
19	07:24 16:59	07:48 (MT 10) 06:52 08:12 (MT 10) 17:38	06:08 18:11	06:16 19:45	05:38 20:17	06:28 (MT 14) 05:25 20:38
20	07:24 17:00	07:48 (MT 10) 06:51 08:12 (MT 10) 17:39	06:06 18:12	06:14 19:46	05:37 20:18	06:29 (MT 14) 05:26 20:39
21	07:23 17:01	07:48 (MT 10) 06:49 08:12 (MT 10) 17:40	06:04 18:13	06:13 19:47	05:36 20:19	06:30 (MT 14) 05:26 20:39
22	07:22 17:02	07:49 (MT 10) 06:48 08:13 (MT 10) 17:41	06:02 18:14	06:11 19:48	05:35 20:20	06:31 (MT 14) 05:26 20:39
23	07:22 17:04	07:49 (MT 10) 06:46 08:13 (MT 10) 17:43	06:01 18:15	06:10 19:49	05:34 20:21	06:32 (MT 14) 05:26 20:39
24	07:21 17:05	07:49 (MT 10) 06:45 08:13 (MT 10) 17:44	05:59 18:16	06:08 19:50	05:34 20:22	06:33 (MT 14) 05:26 20:39
25	07:20 17:06	07:49 (MT 10) 06:43 08:13 (MT 10) 17:45	05:57 18:17	06:07 19:52	05:33 20:23	06:34 (MT 14) 05:27 20:40
26	07:20 17:07	07:49 (MT 10) 06:42 08:13 (MT 10) 17:46	05:56 18:19	06:05 19:53	05:32 20:23	06:35 (MT 14) 05:27 20:40
27	07:19 17:09	07:50 (MT 10) 06:40 08:13 (MT 10) 17:48	05:54 18:20	06:04 19:54	05:32 20:24	06:36 (MT 14) 05:27 20:40
28	07:18 17:10	07:51 (MT 10) 06:39 08:12 (MT 10) 17:49	05:52 18:21	06:03 19:55	05:31 20:25	06:37 (MT 14) 05:28 20:40
29	07:17 17:11	07:52 (MT 10) 06:37 08:13 (MT 10) 17:50	05:50 18:22	06:01 19:56	05:30 20:26	06:38 (MT 14) 05:28 20:40
30	07:16 17:12	07:53 (MT 10) 06:35 08:12 (MT 10) 17:51	05:49 18:23	06:00 19:57	05:29 20:27	06:39 (MT 14) 05:29 20:40
31	07:15 17:14	07:55 (MT 10) 06:33 08:11 (MT 10) 17:52	05:47 18:24	05:59 19:58	05:28 20:28	06:40 (MT 14) 05:29 20:40
Potential sun hours	295	296	369	400	450	455
Total, worst case	493		263	83	163	
Sun reduction	0,44	0,46	0,44	0,48	0,47	
Oper. time red.	0,70	0,70	0,70	0,70	0,70	
Wind dir. red.	0,67	0,66	0,63	0,56	0,56	
Total reduction	0,21	0,21	0,20	0,19	0,18	
Total, real	103	6	52	16	30	

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: R27 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:54 20:20	06:25 19:36	06:57 18:44	07:28 (MT 13) 07:45 (MT 13)	07:08 16:31
2	05:30 20:39	05:55 20:19	06:26 19:34	06:58 18:42	07:26 (MT 13) 07:46 (MT 13)	07:09 16:31
3	05:30 20:39	05:56 20:18	06:27 19:32	06:59 18:41	07:25 (MT 13) 07:47 (MT 13)	07:10 16:31
4	05:31 20:39	05:57 20:16	06:28 (MT 14) 19:31	07:00 18:39	07:24 (MT 13) 07:47 (MT 13)	07:11 16:30
5	05:31 20:39	05:58 20:15	06:26 (MT 14) 19:29	07:01 18:37	07:23 (MT 13) 07:47 (MT 13)	07:12 16:30
6	05:32 20:39	05:59 20:14	06:25 (MT 14) 19:27	07:02 18:36	07:23 (MT 13) 07:47 (MT 13)	07:13 16:30
7	05:32 20:38	06:00 20:13	06:24 (MT 14) 19:26	07:03 18:34	07:23 (MT 13) 07:46 (MT 13)	07:14 16:30
8	05:33 20:38	06:01 20:12	06:23 (MT 14) 19:24	07:04 18:32	07:25 (MT 13) 07:47 (MT 13)	07:15 16:30
9	05:34 20:38	06:02 20:10	06:24 (MT 14) 19:22	07:05 18:31	07:26 (MT 13) 07:46 (MT 13)	07:15 16:30
10	05:34 20:37	06:03 20:09	06:25 (MT 14) 19:21	07:06 18:29	07:27 (MT 13) 07:45 (MT 13)	07:16 16:30
11	05:35 20:37	06:04 20:08	06:26 (MT 14) 19:19	07:07 18:27	07:28 (MT 13) 07:44 (MT 13)	07:17 16:30
12	05:36 20:36	06:05 20:06	06:27 (MT 14) 19:17	07:08 18:26	07:29 (MT 13) 07:42 (MT 13)	07:18 16:30
13	05:37 20:36	06:06 20:05	06:28 (MT 14) 19:15	07:10 18:24	07:30 (MT 13) 07:40 (MT 13)	07:19 16:30
14	05:37 20:35	06:07 20:04	06:29 (MT 14) 19:14	07:11 18:23	07:31 (MT 13) 07:37 (MT 13)	07:20 16:30
15	05:38 20:35	06:08 20:02	06:30 (MT 14) 19:12	07:12 18:21	06:49 16:41	07:23 (MT 10) 16:30
16	05:39 20:34	06:09 20:01	06:31 (MT 14) 19:10	07:13 18:19	06:50 16:40	07:22 (MT 10) 16:31
17	05:40 20:33	06:10 19:59	06:32 (MT 14) 19:08	07:14 18:18	06:51 16:39	07:23 (MT 10) 16:31
18	05:41 20:33	06:11 19:58	06:33 (MT 14) 19:07	07:15 18:16	06:53 16:38	07:23 (MT 10) 16:31
19	05:41 20:32	06:12 19:56	06:34 (MT 14) 19:05	07:16 18:15	06:54 16:38	07:23 (MT 10) 16:32
20	05:42 20:31	06:13 19:55	06:35 (MT 14) 19:03	07:18 18:13	06:55 16:37	07:23 (MT 10) 16:32
21	05:43 20:30	06:14 19:53	06:36 (MT 14) 19:01	07:19 18:12	06:56 16:36	07:24 (MT 10) 16:33
22	05:44 20:30	06:15 19:52	06:37 19:00	07:20 18:10	06:57 16:36	07:24 (MT 10) 16:33
23	05:45 20:29	06:16 19:50	06:38 18:58	07:21 18:09	06:59 16:35	07:24 (MT 10) 16:34
24	05:46 20:28	06:17 19:49	06:39 18:56	07:22 18:07	07:00 16:34	07:24 (MT 10) 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 (MT 10) 16:35
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	07:26 (MT 10) 16:35
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 (MT 10) 16:36
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:28 (MT 10) 16:37
29	05:51 20:23	06:22 19:41	06:54 18:48	07:34 (MT 13) 07:41 (MT 13)	06:28 17:00	07:29 (MT 10) 16:37
30	05:52 20:22	06:23 19:39	06:55 18:46	07:30 (MT 13) 07:44 (MT 13)	06:29 16:59	07:30 (MT 10) 16:38
31	05:53 20:21	06:24 19:37	06:56 18:45	06:31 16:58	07:06 16:58	07:31 (MT 10) 16:39
Potential sun hours	461	429	375	344	296	285
Total, worst case		251		21	258	58
Sun reduction		0,67		0,58	0,44	0,36
Oper. time red.		0,70		0,70	0,70	0,70
Wind dir. red.		0,56		0,63	0,63	0,67
Total reduction		0,26		0,26	0,19	0,17
Total, real		66		5	50	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: R28 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:06 (MT 10) 17:25	06:45 19:25	07:04 (MT 13) 19:58
2	07:28 16:41	07:13 17:16	06:36 17:51	07:07 (MT 10) 19:26	06:44 18	07:02 (MT 13) 19:59
3	07:28 16:42	07:12 17:17	06:34 17:52	07:09 (MT 10) 19:27	06:42 19	07:01 (MT 13) 20:00
4	07:28 16:43	07:11 17:19	06:32 17:54	07:20 (MT 10) 19:28	06:40 19	07:00 (MT 13) 20:01
5	07:28 16:44	07:10 17:20	06:31 17:55	07:20 (MT 10) 19:30	06:39 17	07:00 (MT 13) 20:02
6	07:28 16:44	07:09 17:21	06:29 17:56	07:20 (MT 10) 19:31	06:37 14	07:02 (MT 13) 20:04
7	07:28 16:45	07:08 17:23	06:28 17:57	07:20 (MT 10) 19:32	06:35 11	07:03 (MT 13) 20:05
8	07:28 16:46	07:07 17:24	06:26 17:58	07:20 (MT 10) 19:33	06:34	07:16 (MT 13) 20:06
9	07:28 16:47	07:05 17:25	06:24 17:59	07:20 (MT 10) 19:34	06:32	07:16 (MT 13) 20:07
10	07:28 16:49	07:04 17:26	06:23 18:01	07:20 (MT 10) 19:35	06:30	07:16 (MT 13) 20:08
11	07:28 16:50	07:03 17:28	06:21 18:02	07:20 (MT 10) 19:36	06:29	07:16 (MT 13) 20:09
12	07:27 16:51	07:02 17:29	06:19 18:03	07:20 (MT 10) 19:37	06:27	07:16 (MT 13) 20:10
13	07:27 16:52	07:00 17:30	06:18 18:04	07:20 (MT 10) 19:38	06:25	07:16 (MT 13) 20:11
14	07:27 16:53	06:59 17:32	06:16 18:05	07:20 (MT 10) 19:39	06:24	07:16 (MT 13) 20:12
15	07:26 16:54	06:58 17:33	06:14 18:06	07:20 (MT 10) 19:41	06:22	07:16 (MT 13) 20:13
16	07:26 16:55	06:56 17:34	06:13 18:07	07:20 (MT 10) 19:42	06:21	07:16 (MT 13) 20:14
17	07:25 16:56	06:55 17:35	06:11 18:09	07:15 (MT 10) 19:43	06:19	07:16 (MT 13) 20:15
18	07:25 16:58	06:54 17:37	06:09 18:10	07:13 (MT 10) 19:44	06:17	07:16 (MT 13) 20:16
19	07:24 16:59	06:52 17:38	06:08 18:11	07:12 (MT 10) 19:45	06:16	07:16 (MT 13) 20:17
20	07:24 17:00	06:51 17:39	06:06 18:12	07:10 (MT 10) 19:46	06:14	07:16 (MT 13) 20:18
21	07:23 17:01	06:49 17:40	06:04 18:13	07:09 (MT 10) 19:47	06:13	07:16 (MT 13) 20:19
22	07:22 17:02	06:48 17:42	06:02 18:14	07:07 (MT 10) 19:48	06:11	07:16 (MT 13) 20:20
23	07:22 17:04	06:46 17:43	06:01 18:15	07:06 (MT 10) 19:49	06:10	07:16 (MT 13) 20:21
24	07:21 17:05	06:45 17:44	05:59 18:16	07:04 (MT 10) 19:50	06:08	07:16 (MT 13) 20:22
25	07:20 17:06	06:43 17:45	05:57 18:17	07:04 (MT 10) 19:52	06:07	07:16 (MT 13) 20:23
26	07:20 17:07	06:42 17:46	05:56 18:19	07:04 (MT 10) 19:53	06:05 5	07:16 (MT 13) 20:24
27	07:19 17:09	06:40 17:48	05:54 18:20	07:05 (MT 10) 19:54	06:04 8	07:16 (MT 13) 20:25
28	07:18 17:10	06:39 17:49	05:52 18:21	07:05 (MT 10) 19:55	06:03 10	07:16 (MT 13) 20:26
29	07:17 17:11		05:50 19:22	07:09 (MT 13) 19:56	06:01 12	07:16 (MT 13) 20:27
30	07:16 17:12		05:49 19:23	07:07 (MT 13) 19:57	06:00 14	07:16 (MT 13) 20:28
31	07:15 17:14		05:47 19:24	07:06 (MT 13) 19:58	05:59 16	07:16 (MT 13) 20:29
Potential sun hours	295	296	369		400	455
Total, worst case		220	110		115	
Sun reduction		0,46	0,44		0,48	
Oper. time red.		0,70	0,70		0,70	
Wind dir. red.		0,64	0,62		0,61	
Total reduction		0,21	0,19		0,20	
Total, real		45	21		24	

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: R28 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29	05:54	06:25	06:57	06:32	07:08
	20:40	20:20	19:36	18:44	16:56	16:31
2	05:30	05:55	06:26	06:58	06:33	07:09
	20:39	20:19	19:34	18:42	16:55	16:31
3	05:30	05:56	06:28	06:59	06:34	07:10
	20:39	20:18	19:32	18:41	16:54	16:31
4	05:31	05:57	06:29	07:00	06:35	07:11
	20:39	20:16	19:31	18:39	16:53	16:30
5	05:31	05:58	06:30	06:59 (MT 13)	07:01	06:37
	20:39	20:15	19:29	18:37	16:51	16:30
6	05:32	05:59	06:31	06:57 (MT 13)	07:02	06:38
	20:39	20:14	19:27	18:36	16:50	16:30
7	05:32	06:00	06:32	06:55 (MT 13)	07:03	06:39
	20:38	20:13	19:26	18:34	16:49	16:30
8	05:33	06:01	06:33	06:54 (MT 13)	07:04	06:40
	20:38	20:12	19:24	18:32	16:48	16:30
9	05:34	06:02	06:34	06:54 (MT 13)	07:05	06:42
	20:38	20:10	19:22	18:31	16:47	16:30
10	05:34	06:03	06:35	06:55 (MT 13)	07:06	06:43
	20:37	20:09	19:21	18:29	6 07:46 (MT 10)	16:46
11	05:35	06:04	06:36	06:56 (MT 13)	07:07	07:42 (MT 10)
	20:37	20:08	19:19	18:27	13 07:55 (MT 10)	16:45
12	05:36	06:05	06:37	06:57 (MT 13)	07:08	07:40 (MT 10)
	20:36	20:06	19:17	18:26	17 07:57 (MT 10)	16:44
13	05:37	06:06	06:38	06:58 (MT 13)	07:10	07:38 (MT 10)
	20:36	20:05	19:15	18:24	20 07:58 (MT 10)	16:43
14	05:37	06:07	06:39	06:59 (MT 13)	07:11	07:37 (MT 10)
	20:35	20:04	19:14	18:23	21 07:58 (MT 10)	16:42
15	05:38	06:08	06:40	07:00 (MT 13)	07:12	07:37 (MT 10)
	20:35	20:02	19:12	18:21	22 07:59 (MT 10)	16:41
16	05:39	06:09	06:41	07:01 (MT 13)	07:13	07:36 (MT 10)
	20:34	20:01	19:10	18:19	23 07:59 (MT 10)	16:40
17	05:40	06:10	06:42	07:02 (MT 13)	07:14	07:36 (MT 10)
	20:33	19:59	19:08	18:18	23 07:59 (MT 10)	16:39
18	05:41	06:11	06:43	07:03 (MT 13)	07:15	07:36 (MT 10)
	20:33	19:58	19:07	18:16	23 07:59 (MT 10)	16:38
19	05:41	06:12	06:44	07:16	07:37 (MT 10)	06:54
	20:32	19:56	19:05	18:15	21 07:58 (MT 10)	16:38
20	05:42	06:13	06:45	07:18	07:39 (MT 10)	06:55
	20:31	19:55	19:03	18:13	20 07:59 (MT 10)	16:37
21	05:43	06:14	06:46	07:19	07:40 (MT 10)	06:56
	20:30	19:53	19:01	18:12	18 07:58 (MT 10)	16:36
22	05:44	06:15	06:47	07:20	07:41 (MT 10)	06:57
	20:30	19:52	19:00	18:10	15 07:56 (MT 10)	16:36
23	05:45	06:16	06:48	07:21	07:42 (MT 10)	06:59
	20:29	19:50	18:58	18:09	13 07:55 (MT 10)	16:35
24	05:46	06:17	06:49	07:22	07:44 (MT 10)	07:00
	20:28	19:49	18:56	18:07	10 07:54 (MT 10)	16:34
25	05:47	06:18	06:50	06:23	06:45 (MT 10)	07:01
	20:27	19:47	18:54	17:06	6 06:51 (MT 10)	16:34
26	05:48	06:19	06:51	06:25	07:02	07:27
	20:26	19:46	18:53	17:04	16:33	16:35
27	05:49	06:20	06:52	06:26	07:03	07:27
	20:25	19:44	18:51	17:03	16:33	16:36
28	05:50	06:21	06:53	06:27	07:04	07:27
	20:24	19:42	18:49	17:02	16:32	16:37
29	05:51	06:22	06:54	06:28	07:05	07:28
	20:23	19:41	18:48	17:00	16:32	16:37
30	05:52	06:23	06:55	06:29	07:06	07:28
	20:22	19:39	18:46	16:59	16:31	16:38
31	05:53	06:24		06:31		07:28
	20:21	19:37		16:58		16:39
Potential sun hours	461	429	375	344	296	285
Total, worst case			185		271	
Sun reduction			0,58		0,44	
Oper. time red.			0,70		0,70	
Wind dir. red.			0,61		0,64	
Total reduction			0,25		0,20	
Total, real			46		53	

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: R29 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	
1	07:28 16:40	07:14 17:15 34	07:56 (MT 10) 06:37 08:30 (MT 10) 17:50	06:45 19:25 29	07:24 (MT 13) 05:58 07:53 (MT 13) 19:58	05:29 20:28	
2	07:28 16:41	07:13 17:16 34	07:56 (MT 10) 06:36 08:30 (MT 10) 17:51	06:44 19:26 27	07:25 (MT 13) 05:57 07:52 (MT 13) 19:59	05:28 20:29	
3	07:28 16:42	07:12 17:17 33	07:57 (MT 10) 06:34 08:30 (MT 10) 17:52	06:42 19:27 25	07:26 (MT 13) 05:56 07:51 (MT 13) 20:00	05:28 20:30	
4	07:28 16:43	07:11 17:19 33	07:57 (MT 10) 06:32 08:30 (MT 10) 17:54	06:40 19:28 22	07:27 (MT 13) 05:55 07:49 (MT 13) 20:01	05:27 20:31	
5	07:28 16:44	07:10 17:20 32	07:58 (MT 10) 06:31 08:30 (MT 10) 17:55	06:39 19:30 17	07:29 (MT 13) 05:53 07:46 (MT 13) 20:02	05:27 20:31	
6	07:28 16:44	07:09 17:21 30	07:59 (MT 10) 06:29 08:29 (MT 10) 17:56	06:37 19:31 12	07:32 (MT 13) 05:52 07:44 (MT 13) 20:03	05:27 20:32	
7	07:28 16:45	07:08 17:23 29	08:00 (MT 10) 06:28 08:29 (MT 10) 17:57	06:35 19:32	05:51 20:05	05:26 20:33	
8	07:28 16:46	07:07 17:24 28	08:00 (MT 10) 06:26 08:28 (MT 10) 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:49 (MT 14)
9	07:28 16:47	07:05 17:25 26	08:01 (MT 10) 06:24 08:27 (MT 10) 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:48 (MT 14)
10	07:28 16:49	07:04 17:26 23	08:03 (MT 10) 06:23 08:26 (MT 10) 18:01	06:30 19:35	05:47 20:08	05:26 20:34	05:48 (MT 14)
11	07:28 16:50	07:03 17:28 19	08:05 (MT 10) 06:21 08:24 (MT 10) 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:48 (MT 14)
12	07:27 16:51	07:02 17:29 16	08:06 (MT 10) 06:19 08:22 (MT 10) 18:03	06:27 19:37	05:45 20:10	05:25 20:36	05:48 (MT 14)
13	07:27 16:52	07:00 17:30 8	08:10 (MT 10) 06:18 08:18 (MT 10) 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:48 (MT 14)
14	07:27 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	05:48 (MT 14)
15	07:26 16:54	08:04 (MT 10) 06:58 08:14 (MT 10) 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:48 (MT 14)
16	07:26 16:55	08:02 (MT 10) 06:56 08:16 (MT 10) 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:48 (MT 14)
17	07:25 16:56	08:01 (MT 10) 06:55 08:19 (MT 10) 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:48 (MT 14)
18	07:25 16:57	08:00 (MT 10) 06:54 08:20 (MT 10) 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:48 (MT 14)
19	07:24 16:59	08:00 (MT 10) 06:52 08:22 (MT 10) 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:48 (MT 14)
20	07:24 17:00	07:59 (MT 10) 06:51 08:23 (MT 10) 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:39	05:48 (MT 14)
21	07:23 17:01	07:58 (MT 10) 06:49 08:24 (MT 10) 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:48 (MT 14)
22	07:22 17:02	07:57 (MT 10) 06:48 08:24 (MT 10) 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:49 (MT 14)
23	07:22 17:04	07:58 (MT 10) 06:46 08:26 (MT 10) 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:49 (MT 14)
24	07:21 17:05	07:57 (MT 10) 06:45 08:27 (MT 10) 17:44	06:00 18:16	06:08 19:50	05:34 20:22	05:26 20:39	05:49 (MT 14)
25	07:20 17:06	07:56 (MT 10) 06:43 08:27 (MT 10) 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:27 20:40	05:50 (MT 14)
26	07:19 17:07	07:56 (MT 10) 06:42 08:28 (MT 10) 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40	05:50 (MT 14)
27	07:19 17:09	07:56 (MT 10) 06:40 08:28 (MT 10) 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:50 (MT 14)
28	07:18 17:10	07:56 (MT 10) 06:39 08:29 (MT 10) 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	05:51 (MT 14)
29	07:17 17:11	07:56 (MT 10) 06:37 08:29 (MT 10) 17:49	05:50 18:22	06:01 19:56	05:30 20:26	05:28 20:40	05:51 (MT 14)
30	07:16 17:12	07:57 (MT 10) 06:35 08:31 (MT 10) 17:48	05:49 18:23	06:00 19:57	05:30 20:27	05:29 20:40	05:52 (MT 14)
31	07:15 17:14	07:57 (MT 10) 06:33 08:31 (MT 10) 17:47	05:47 18:24	05:59 19:58	05:29 20:28	05:29 20:40	05:52 (MT 14)
Potential sun hours	295	296	369	400	450	455	
Total, worst case	447	345	419	132		281	
Sun reduction	0,44	0,46	0,44	0,48		0,54	
Oper. time red.	0,70	0,70	0,70	0,70		0,70	
Wind dir. red.	0,67	0,67	0,63	0,63		0,56	
Total reduction	0,21	0,22	0,19	0,21		0,21	
Total, real	93	74	81	28		60	

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: R29 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

		July		August		September		October		November		December	
1	05:29												
	20:40	10	05:52 (MT 14)	05:54	06:25			06:56		06:32		07:32 (MT 10)	07:08
			06:02 (MT 14)	20:20	19:36			18:44		16:56	24	07:56 (MT 10)	16:31
2	05:30		05:53 (MT 14)	05:55	06:26			06:58		06:33		07:31 (MT 10)	07:09
	20:39	9	06:02 (MT 14)	20:19	19:34			18:42		16:55	26	07:57 (MT 10)	16:31
3	05:30		05:53 (MT 14)	05:56	06:27			06:59		06:34		07:30 (MT 10)	07:10
	20:39	8	06:01 (MT 14)	20:18	19:32			18:41		16:54	27	07:57 (MT 10)	16:31
4	05:31		05:54 (MT 14)	05:57	06:29			07:00		06:35		07:29 (MT 10)	07:11
	20:39	7	06:01 (MT 14)	20:16	19:31			18:39		16:53	30	07:59 (MT 10)	16:30
5	05:31			05:58	06:30			07:01		06:37		07:29 (MT 10)	07:12
	20:39			20:15	19:29			18:37		16:51	30	07:59 (MT 10)	16:30
6	05:32			05:59	06:31			07:02		06:38		07:28 (MT 10)	07:13
	20:39			20:14	19:27	11	07:27 (MT 13)	18:36		16:50	32	08:00 (MT 10)	16:30
7	05:32			06:00	06:32			07:03		06:39		07:28 (MT 10)	07:14
	20:38			20:13	19:26	17	07:41 (MT 13)	18:34		16:49	33	08:01 (MT 10)	16:30
8	05:33			06:01	06:33			07:04		06:40		07:28 (MT 10)	07:15
	20:38			20:12	19:24	22	07:43 (MT 13)	18:32		16:48	33	08:01 (MT 10)	16:30
9	05:34			06:02	06:34			07:05		06:42		07:27 (MT 10)	07:15
	20:38			20:10	19:22	24	07:44 (MT 13)	18:31		16:47	34	08:01 (MT 10)	16:30
10	05:34			06:03	06:35			07:06		06:43		07:27 (MT 10)	07:16
	20:37			20:09	19:21	27	07:45 (MT 13)	18:29		16:46	34	08:01 (MT 10)	16:30
11	05:35			06:04	06:36			07:07		06:44		07:28 (MT 10)	07:17
	20:37			20:08	19:19	28	07:45 (MT 13)	18:27		16:45	34	08:02 (MT 10)	16:30
12	05:36			06:05	06:37			07:08		06:45		07:28 (MT 10)	07:18
	20:36			20:06	19:17	30	07:46 (MT 13)	18:26		16:44	33	08:01 (MT 10)	16:30
13	05:37			06:06	06:38			07:10		06:47		07:28 (MT 10)	07:19
	20:36			20:05	19:15	31	07:46 (MT 13)	18:24		16:43	33	08:01 (MT 10)	16:30
14	05:37			06:07	06:39			07:11		06:48		07:29 (MT 10)	07:20
	20:35			20:04	19:14	32	07:46 (MT 13)	18:22		16:42	33	08:02 (MT 10)	16:30
15	05:38			06:08	06:40			07:12		06:49		07:29 (MT 10)	07:20
	20:35			20:02	19:12	33	07:46 (MT 13)	18:21		16:41	32	08:01 (MT 10)	16:30
16	05:39			06:09	06:41			07:13		06:50		07:29 (MT 10)	07:21
	20:34			20:01	19:10	33	07:46 (MT 13)	18:19		16:40	32	08:01 (MT 10)	16:31
17	05:40			06:10	06:42			07:14		06:51		07:31 (MT 10)	07:22
	20:33			19:59	19:08	32	07:45 (MT 13)	18:18		16:39	30	08:01 (MT 10)	16:31
18	05:41			06:11	06:43			07:15		06:53		07:31 (MT 10)	07:22
	20:33			19:58	19:07	33	07:45 (MT 13)	18:16		16:38	30	08:01 (MT 10)	16:31
19	05:41			06:12	06:44			07:16		06:54		07:32 (MT 10)	07:23
	20:32			19:56	19:05	32	07:44 (MT 13)	18:15		16:38	28	08:00 (MT 10)	16:32
20	05:42			06:13	06:45			07:18		06:55		07:32 (MT 10)	07:24
	20:31			19:55	19:03	30	07:43 (MT 13)	18:13		16:37	27	07:59 (MT 10)	16:32
21	05:43			06:14	06:46			07:19		06:56		07:34 (MT 10)	07:24
	20:30			19:53	19:01	29	07:42 (MT 13)	18:12		16:36	26	08:00 (MT 10)	16:33
22	05:44			06:15	06:47			07:20		06:57		07:35 (MT 10)	07:25
	20:30			19:52	19:00	28	07:41 (MT 13)	18:10		16:36	24	07:59 (MT 10)	16:33
23	05:45			06:16	06:48			07:21		06:59		07:36 (MT 10)	07:25
	20:29			19:50	18:58	25	07:39 (MT 13)	18:09		16:35	22	07:58 (MT 10)	16:34
24	05:46			06:17	06:49			07:22		07:00		07:37 (MT 10)	07:26
	20:28			19:49	18:56	22	07:37 (MT 13)	18:07		16:34	20	07:57 (MT 10)	16:34
25	05:47			06:18	06:50			06:23		07:01		07:39 (MT 10)	07:26
	20:27			19:47	18:54	18	07:35 (MT 13)	17:06		16:34	18	07:57 (MT 10)	16:35
26	05:48			06:19	06:51			06:25		07:02		07:41 (MT 10)	07:27
	20:26			19:45	18:53	13	07:33 (MT 13)	17:04		16:33	14	07:55 (MT 10)	16:35
27	05:49			06:20	06:52			06:26		07:03		07:43 (MT 10)	07:27
	20:25			19:44	18:51			17:03		16:33	10	07:53 (MT 10)	16:36
28	05:50			06:21	06:53			06:27		07:04			07:27
	20:24			19:42	18:49			17:02		16:32			16:37
29	05:51			06:22	06:54			06:28		07:05			07:28
	20:23			19:41	18:48			17:00	10	07:49 (MT 10)	16:32		16:37
30	05:52			06:23	06:55			06:29		07:35 (MT 10)	07:06		07:28
	20:22			19:39	18:46			16:59	17	07:52 (MT 10)	16:31		16:38
31	05:53			06:24				06:31		07:33 (MT 10)			07:28
	20:21			19:37				16:58	20	07:53 (MT 10)			16:39
Potential sun hours	461			429	375			344		296			285
Total, worst case		34			550			47		749			
Sun reduction		0,61			0,58			0,44		0,41			
Oper. time red.		0,70			0,70			0,70		0,70			
Wind dir. red.		0,56			0,63			0,67		0,67			
Total reduction		0,24			0,25			0,21		0,19			
Total, real		8			140			10		143			

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: R30 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

January		February		March		April		May		June	
1	07:28 16:40	08:00 (MT 10) 08:27 (MT 10)	07:14 17:15	06:37 17:50		06:45 19:25	05:58 19:58		05:29 20:28		05:56 (MT 14) 06:23 (MT 14)
2	07:28 16:41	08:00 (MT 10) 08:28 (MT 10)	07:13 17:16	06:36 17:51	8	07:00 (MT 13) 06:44	05:57 19:26		05:28 20:29	27	05:55 (MT 14) 06:22 (MT 14)
3	07:28 16:42	08:00 (MT 10) 08:29 (MT 10)	07:12 17:17	06:34 17:52	15	06:56 (MT 13) 07:11 (MT 13)	06:42 19:27	05:56 20:00	05:28 20:30	26	05:56 (MT 14) 06:22 (MT 14)
4	07:28 16:43	08:01 (MT 10) 08:29 (MT 10)	07:11 17:19	06:32 17:54	20	06:54 (MT 13) 07:14 (MT 13)	06:40 19:28	05:55 20:01	05:27 20:31	25	05:56 (MT 14) 06:21 (MT 14)
5	07:28 16:44	08:01 (MT 10) 08:30 (MT 10)	07:10 17:20	06:31 17:55	23	06:52 (MT 13) 07:15 (MT 13)	06:39 19:30	05:53 20:02	05:27 20:31	25	05:57 (MT 14) 06:22 (MT 14)
6	07:28 16:44	08:01 (MT 10) 08:31 (MT 10)	07:09 17:21	06:29 17:56	25	06:50 (MT 13) 07:15 (MT 13)	06:37 19:31	05:52 20:03	05:27 20:32	25	05:57 (MT 14) 06:22 (MT 14)
7	07:28 16:45	08:02 (MT 10) 08:32 (MT 10)	07:08 17:23	06:28 17:57	28	06:49 (MT 13) 07:17 (MT 13)	06:35 19:32	05:51 20:05	05:26 20:33	24	05:58 (MT 14) 06:22 (MT 14)
8	07:28 16:46	08:01 (MT 10) 08:31 (MT 10)	07:07 17:24	06:26 17:58	29	06:48 (MT 13) 07:17 (MT 13)	06:34 19:33	05:50 20:06	05:26 20:33	23	05:58 (MT 14) 06:21 (MT 14)
9	07:28 16:47	08:02 (MT 10) 08:32 (MT 10)	07:05 17:25	06:24 17:59	30	06:47 (MT 13) 07:17 (MT 13)	06:32 19:34	05:48 20:07	05:26 20:34	23	05:58 (MT 14) 06:21 (MT 14)
10	07:28 16:49	08:02 (MT 10) 08:33 (MT 10)	07:04 17:26	06:23 18:01	31	06:47 (MT 13) 07:18 (MT 13)	06:30 19:35	05:47 20:08	05:26 20:34	22	05:59 (MT 14) 06:21 (MT 14)
11	07:28 16:50	08:03 (MT 10) 08:34 (MT 10)	07:03 17:28	06:21 18:02	31	06:46 (MT 13) 07:17 (MT 13)	06:29 19:36	05:46 20:09	05:26 20:35	22	05:59 (MT 14) 06:21 (MT 14)
12	07:27 16:51	08:03 (MT 10) 08:34 (MT 10)	07:02 17:29	06:19 18:03	31	06:46 (MT 13) 07:17 (MT 13)	06:27 19:37	05:45 20:10	05:25 20:36	21	06:00 (MT 14) 06:21 (MT 14)
13	07:27 16:52	08:03 (MT 10) 08:35 (MT 10)	07:00 17:30	06:18 18:04	31	06:46 (MT 13) 07:17 (MT 13)	06:25 19:38	05:44 20:11	05:25 20:36	22	06:00 (MT 14) 06:22 (MT 14)
14	07:27 16:53	08:03 (MT 10) 08:34 (MT 10)	06:59 17:32	06:16 18:05	30	06:46 (MT 13) 07:16 (MT 13)	06:24 19:39	05:43 20:12	05:25 20:37	21	06:01 (MT 14) 06:22 (MT 14)
15	07:26 16:54	08:04 (MT 10) 08:35 (MT 10)	06:58 17:33	06:14 18:06	29	06:46 (MT 13) 07:15 (MT 13)	06:22 19:41	05:42 20:13	05:25 20:37	21	06:01 (MT 14) 06:22 (MT 14)
16	07:26 16:55	08:04 (MT 10) 08:35 (MT 10)	06:56 17:34	06:13 18:07	28	06:46 (MT 13) 07:14 (MT 13)	06:21 19:42	05:41 20:14	05:25 20:37	20	06:02 (MT 14) 06:22 (MT 14)
17	07:25 16:56	08:05 (MT 10) 08:36 (MT 10)	06:55 17:35	06:11 18:09	26	06:47 (MT 13) 07:13 (MT 13)	06:19 19:43	05:40 20:15	05:25 20:38	20	06:02 (MT 14) 06:22 (MT 14)
18	07:25 16:57	08:05 (MT 10) 08:35 (MT 10)	06:54 17:37	06:09 18:10	23	06:48 (MT 13) 07:11 (MT 13)	06:17 19:44	05:39 20:16	05:25 20:38	20	06:02 (MT 14) 06:22 (MT 14)
19	07:24 16:59	08:06 (MT 10) 08:36 (MT 10)	06:52 17:38	06:08 18:11	20	06:49 (MT 13) 07:09 (MT 13)	06:16 19:45	05:38 20:17	05:25 20:38	20	06:02 (MT 14) 06:22 (MT 14)
20	07:24 17:00	08:06 (MT 10) 08:36 (MT 10)	06:51 17:39	06:06 18:12	16	06:51 (MT 13) 07:07 (MT 13)	06:14 19:46	05:37 20:18	05:26 20:39	20	06:02 (MT 14) 06:22 (MT 14)
21	07:23 17:01	08:07 (MT 10) 08:35 (MT 10)	06:49 17:40	06:04 18:13	9	06:54 (MT 13) 07:03 (MT 13)	06:13 19:47	05:36 20:19	05:26 20:39	20	06:02 (MT 14) 06:22 (MT 14)
22	07:22 17:02	08:07 (MT 10) 08:35 (MT 10)	06:48 17:41	06:02 18:14		06:11 19:48	05:35 20:20	05:26 20:25	05:26 20:39	20	06:03 (MT 14) 06:23 (MT 14)
23	07:22 17:04	08:09 (MT 10) 08:35 (MT 10)	06:46 17:43	06:01 18:15		06:10 19:49	05:35 20:21	05:26 20:26	05:26 20:39	20	06:03 (MT 14) 06:23 (MT 14)
24	07:21 17:05	08:10 (MT 10) 08:35 (MT 10)	06:45 17:44	05:59 18:16		06:08 19:50	05:34 20:22	05:26 20:27	05:26 20:39	20	06:03 (MT 14) 06:23 (MT 14)
25	07:20 17:06	08:10 (MT 10) 08:34 (MT 10)	06:43 17:45	05:57 18:17		06:07 19:52	05:33 20:23	05:27 20:28	05:27 20:40	20	06:04 (MT 14) 06:24 (MT 14)
26	07:19 17:07	08:11 (MT 10) 08:33 (MT 10)	06:42 17:46	05:56 18:19		06:05 19:53	05:32 20:23	05:27 20:28	05:27 20:40	20	06:04 (MT 14) 06:24 (MT 14)
27	07:19 17:09	08:13 (MT 10) 08:32 (MT 10)	06:40 17:48	05:54 18:20		06:04 19:54	05:32 20:24	05:27 20:28	05:27 20:40	21	06:03 (MT 14) 06:24 (MT 14)
28	07:18 17:10	08:14 (MT 10) 08:31 (MT 10)	06:39 17:49	05:52 18:21		06:03 19:55	05:31 20:25	05:28 20:28	05:28 20:40	21	06:04 (MT 14) 06:25 (MT 14)
29	07:17 17:11	08:17 (MT 10) 08:29 (MT 10)		06:50 19:22		06:01 19:56	05:30 20:26	05:28 20:28	05:28 20:40	21	06:04 (MT 14) 06:25 (MT 14)
30	07:16 17:12	08:23 (MT 10) 08:25 (MT 10)		06:49 19:23		06:00 19:57	05:30 20:27	05:29 20:28	05:29 20:40	21	06:04 (MT 14) 06:25 (MT 14)
31	07:15 17:14			06:47 19:24			05:29 20:28	05:55 (MT 14) 06:22 (MT 14)			
Potential sun hours	295		296	369		400	450		455		
Total, worst case	803			483			454		658		
Sun reduction	0,44			0,44			0,47		0,54		
Oper. time red.	0,70			0,70			0,70		0,70		
Wind dir. red.	0,67			0,63			0,57		0,57		
Total reduction	0,21			0,20			0,19		0,22		
Total, real	168			95			85		142		

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: R30 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1 05:29	06:04 (MT 14) 05:54	06:16 (MT 14) 06:25	06:56	07:25 (MT 13) 06:32	07:08	07:45 (MT 10)
20:40	21 06:25 (MT 14) 20:20	8 06:24 (MT 14) 19:36	18:44	31 07:56 (MT 13) 16:56	16:31	31 08:16 (MT 10)
2 05:30	06:04 (MT 14) 05:55	06:17 (MT 14) 06:26	06:58	07:25 (MT 13) 06:33	07:09	07:45 (MT 10)
20:39	22 06:26 (MT 14) 20:19	3 06:20 (MT 14) 19:34	18:42	31 07:56 (MT 13) 16:55	16:31	31 08:16 (MT 10)
3 05:30	06:04 (MT 14) 05:56	06:27	06:59	07:25 (MT 13) 06:34	07:10	07:46 (MT 10)
20:39	22 06:26 (MT 14) 20:18	19:32	18:41	30 07:55 (MT 13) 16:54	16:31	30 08:16 (MT 10)
4 05:31	06:04 (MT 14) 05:57	06:29	07:00	07:24 (MT 13) 06:35	07:11	07:46 (MT 10)
20:39	23 06:27 (MT 14) 20:16	19:31	18:39	31 07:55 (MT 13) 16:53	16:30	30 08:16 (MT 10)
5 05:31	06:03 (MT 14) 05:58	06:30	07:01	07:24 (MT 13) 06:37	07:12	07:47 (MT 10)
20:39	24 06:27 (MT 14) 20:15	19:29	18:37	30 07:54 (MT 13) 16:51	16:30	30 08:17 (MT 10)
6 05:32	06:04 (MT 14) 05:59	06:31	07:02	07:25 (MT 13) 06:38	07:13	07:47 (MT 10)
20:39	24 06:28 (MT 14) 20:14	19:27	18:36	28 07:53 (MT 13) 16:50	16:30	30 08:17 (MT 10)
7 05:32	06:03 (MT 14) 06:00	06:32	07:03	07:25 (MT 13) 06:39	07:14	07:48 (MT 10)
20:38	25 06:28 (MT 14) 20:13	19:26	18:34	27 07:52 (MT 13) 16:49	16:30	29 08:17 (MT 10)
8 05:33	06:03 (MT 14) 06:01	06:33	07:04	07:26 (MT 13) 06:40	07:15	07:49 (MT 10)
20:38	26 06:29 (MT 14) 20:12	19:24	18:32	24 07:50 (MT 13) 16:48	16:30	28 08:17 (MT 10)
9 05:34	06:04 (MT 14) 06:02	06:34	07:05	07:28 (MT 13) 06:42	07:15	07:49 (MT 10)
20:38	25 06:29 (MT 14) 20:10	19:22	18:31	21 07:49 (MT 13) 16:47	16:30	29 08:18 (MT 10)
10 05:34	06:03 (MT 14) 06:03	06:35	07:06	07:29 (MT 13) 06:43	07:16	07:49 (MT 10)
20:37	26 06:29 (MT 14) 20:09	19:21	18:29	18 07:47 (MT 13) 16:46	16:30	28 08:17 (MT 10)
11 05:35	06:03 (MT 14) 06:04	06:36	07:07	07:31 (MT 13) 06:44	07:17	07:50 (MT 10)
20:37	27 06:30 (MT 14) 20:08	19:19	18:27	13 07:44 (MT 13) 16:45	16:30	28 08:18 (MT 10)
12 05:36	06:03 (MT 14) 06:05	06:37	07:08	06:45	07:18	07:51 (MT 10)
20:36	27 06:30 (MT 14) 20:06	19:17	18:26	16:44	3 07:56 (MT 10) 16:30	27 08:18 (MT 10)
13 05:37	06:04 (MT 14) 06:06	06:38	07:10	06:47	07:49 (MT 10) 16:30	27 08:18 (MT 10)
20:36	27 06:31 (MT 14) 20:05	19:15	18:24	16:43	12 08:01 (MT 10) 16:30	26 08:18 (MT 10)
14 05:37	06:03 (MT 14) 06:07	06:39	07:11	06:48	07:47 (MT 10) 16:30	27 08:19 (MT 10)
20:35	27 06:30 (MT 14) 20:04	19:14	18:22	16:42	17 08:04 (MT 10) 16:30	27 08:19 (MT 10)
15 05:38	06:03 (MT 14) 06:08	06:40	07:12	06:49	07:46 (MT 10) 16:30	27 08:19 (MT 10)
20:35	28 06:31 (MT 14) 20:02	19:12	18:21	16:41	19 08:05 (MT 10) 16:30	27 08:19 (MT 10)
16 05:39	06:03 (MT 14) 06:09	06:41	07:13	06:50	07:44 (MT 10) 16:31	26 08:19 (MT 10)
20:34	28 06:31 (MT 14) 20:01	19:10	18:19	16:40	22 08:06 (MT 10) 16:31	26 08:19 (MT 10)
17 05:40	06:04 (MT 14) 06:10	06:42	07:14	06:51	07:44 (MT 10) 16:32	26 08:20 (MT 10)
20:33	28 06:32 (MT 14) 19:59	19:08	18:18	16:39	24 08:08 (MT 10) 16:31	26 08:20 (MT 10)
18 05:41	06:03 (MT 14) 06:11	06:43	07:15	06:53	07:44 (MT 10) 16:32	26 08:20 (MT 10)
20:33	28 06:31 (MT 14) 19:58	19:07	18:16	16:38	25 08:09 (MT 10) 16:31	26 08:20 (MT 10)
19 05:41	06:04 (MT 14) 06:12	06:44	07:16	06:54	07:43 (MT 10) 16:32	25 08:20 (MT 10)
20:32	27 06:31 (MT 14) 19:56	19:05	18:15	16:38	26 08:09 (MT 10) 16:32	25 08:20 (MT 10)
20 05:42	06:05 (MT 14) 06:13	06:45	07:18	06:55	07:42 (MT 10) 16:32	25 08:21 (MT 10)
20:31	26 06:31 (MT 14) 19:55	19:03	18:13	16:37	28 08:10 (MT 10) 16:32	25 08:21 (MT 10)
21 05:43	06:06 (MT 14) 06:14	06:46	07:19	06:56	07:43 (MT 10) 16:32	25 08:21 (MT 10)
20:30	26 06:32 (MT 14) 19:53	19:01	18:12	16:36	28 08:11 (MT 10) 16:33	25 08:21 (MT 10)
22 05:44	06:07 (MT 14) 06:15	06:47	07:20	06:57	07:42 (MT 10) 16:33	25 08:22 (MT 10)
20:30	25 06:32 (MT 14) 19:52	19:00	6 07:46 (MT 13) 18:10	16:36	30 08:12 (MT 10) 16:33	25 08:22 (MT 10)
23 05:45	06:08 (MT 14) 06:16	06:48	07:21	06:59	07:42 (MT 10) 16:33	25 08:22 (MT 10)
20:29	24 06:32 (MT 14) 19:50	18:58	14 07:50 (MT 13) 18:09	16:35	30 08:12 (MT 10) 16:34	25 08:22 (MT 10)
24 05:46	06:09 (MT 14) 06:17	06:49	07:22	07:00	07:42 (MT 10) 16:34	25 08:22 (MT 10)
20:28	22 06:31 (MT 14) 19:49	18:56	19 07:52 (MT 13) 18:07	16:34	30 08:12 (MT 10) 16:34	25 08:22 (MT 10)
25 05:47	06:10 (MT 14) 06:18	06:50	07:23	07:01	07:43 (MT 10) 16:35	25 08:23 (MT 10)
20:27	21 06:31 (MT 14) 19:47	18:54	22 07:53 (MT 13) 17:06	16:34	31 08:14 (MT 10) 16:35	25 08:23 (MT 10)
26 05:48	06:10 (MT 14) 06:19	06:51	07:24	07:02	07:43 (MT 10) 16:35	26 08:24 (MT 10)
20:26	20 06:30 (MT 14) 19:45	18:53	25 07:55 (MT 13) 17:04	16:33	31 08:14 (MT 10) 16:35	26 08:24 (MT 10)
27 05:49	06:11 (MT 14) 06:20	06:52	07:25	07:03	07:43 (MT 10) 16:35	26 08:24 (MT 10)
20:25	18 06:29 (MT 14) 19:44	18:51	27 07:56 (MT 13) 17:03	16:33	31 08:14 (MT 10) 16:36	26 08:24 (MT 10)
28 05:50	06:12 (MT 14) 06:21	06:53	07:26	07:04	07:43 (MT 10) 16:36	26 08:24 (MT 10)
20:24	17 06:29 (MT 14) 19:42	18:49	28 07:56 (MT 13) 17:02	16:32	31 08:14 (MT 10) 16:37	26 08:25 (MT 10)
29 05:51	06:13 (MT 14) 06:22	06:54	07:27	07:05	07:43 (MT 10) 16:37	27 08:25 (MT 10)
20:23	15 06:28 (MT 14) 19:41	18:48	29 07:56 (MT 13) 17:00	16:32	32 08:15 (MT 10) 16:37	27 08:26 (MT 10)
30 05:52	06:14 (MT 14) 06:23	06:55	07:28	07:06	07:44 (MT 10) 16:38	27 08:26 (MT 10)
20:22	13 06:27 (MT 14) 19:39	18:46	30 07:56 (MT 13) 16:59	16:31	31 08:15 (MT 10) 16:38	27 08:26 (MT 10)
31 05:53	06:15 (MT 14) 06:24	06:56	07:29	07:07	07:44 (MT 10) 16:39	27 08:27 (MT 10)
20:21	11 06:26 (MT 14) 19:37	18:45	31 07:56 (MT 13) 16:58	16:31	31 08:15 (MT 10) 16:39	27 08:27 (MT 10)
Potential sun hours	461	429	375	344	296	285
Total, worst case	723	11	200	284	481	843
Sun reduction	0,61	0,67	0,58	0,44	0,41	0,36
Oper. time red.	0,70	0,70	0,70	0,70	0,70	0,70
Wind dir. red.	0,57	0,57	0,63	0,63	0,67	0,67
Total reduction	0,24	0,27	0,26	0,19	0,19	0,17
Total, real	175	3	52	55	92	146

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: R31 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:02 (MT 14) 07:36 (MT 14)	06:45 19:25	17:18 (MT 11) 19:58
2	07:28 16:41	07:13 17:16	06:36 17:51	07:02 (MT 14) 07:37 (MT 14)	06:44 19:26	17:18 (MT 11) 19:59
3	07:28 16:42	07:12 17:17	06:34 17:52	07:01 (MT 14) 07:36 (MT 14)	06:42 19:27	17:19 (MT 11) 20:00
4	07:28 16:43	07:11 17:19	06:32 17:53	07:01 (MT 14) 07:37 (MT 14)	06:40 19:28	17:20 (MT 11) 20:01
5	07:28 16:43	07:10 17:20	06:31 17:55	07:01 (MT 14) 07:36 (MT 14)	06:39 19:30	17:20 (MT 11) 20:02
6	07:28 16:44	07:09 17:21	06:29 17:56	07:00 (MT 14) 16:59 (MT 11)	06:37 19:31	17:22 (MT 11) 20:03
7	07:28 16:45	07:08 17:23	06:28 17:57	07:01 (MT 14) 17:03 (MT 11)	06:35 19:32	17:23 (MT 11) 20:05
8	07:28 16:46	07:07 17:24	06:26 17:58	07:00 (MT 14) 17:06 (MT 11)	06:34 19:33	17:24 (MT 11) 20:06
9	07:28 16:47	07:05 17:25	06:24 17:59	07:00 (MT 14) 17:07 (MT 11)	06:32 19:34	17:27 (MT 11) 20:07
10	07:28 16:48	07:04 17:26	06:23 18:01	07:01 (MT 14) 18:01 (MT 11)	06:30 19:35	17:29 (MT 11) 20:08
11	07:28 16:50	07:03 17:28	06:21 18:02	07:02 (MT 14) 17:11 (MT 11)	06:29 19:36	17:31 (MT 11) 20:09
12	07:27 16:51	07:02 17:29	06:19 18:03	07:02 (MT 14) 17:12 (MT 11)	06:27 19:37	17:36 (MT 11) 20:10
13	07:27 16:52	07:00 17:30	06:18 18:04	07:04 (MT 14) 17:13 (MT 11)	06:25 19:38	17:49 (MT 11) 20:11
14	07:27 16:53	06:59 17:31	06:16 18:05	07:05 (MT 14) 17:14 (MT 11)	06:24 19:39	17:49 (MT 11) 20:12
15	07:26 16:54	06:58 17:33	06:14 18:06	07:07 (MT 14) 17:14 (MT 11)	06:22 19:41	17:49 (MT 11) 20:13
16	07:26 16:55	06:56 17:34	06:13 18:07	07:10 (MT 14) 17:15 (MT 11)	06:21 19:42	17:49 (MT 11) 20:14
17	07:25 16:56	06:55 17:35	06:11 18:08	16:20 (MT 11) 17:16 (MT 11)	06:19 19:43	17:49 (MT 11) 20:15
18	07:25 16:57	06:54 17:36	06:09 18:10	16:19 (MT 11) 17:16 (MT 11)	06:17 19:44	17:49 (MT 11) 20:16
19	07:24 16:59	06:52 17:38	06:08 18:11	16:18 (MT 11) 17:16 (MT 11)	06:16 19:45	17:49 (MT 11) 20:17
20	07:24 17:00	06:51 17:39	06:06 18:12	16:18 (MT 11) 17:16 (MT 11)	06:14 19:46	17:49 (MT 11) 20:18
21	07:23 17:01	06:49 17:40	06:04 18:13	16:17 (MT 11) 17:16 (MT 11)	06:13 19:47	17:49 (MT 11) 20:19
22	07:22 17:02	06:48 17:41	06:02 18:14	16:17 (MT 11) 17:16 (MT 11)	06:11 19:48	17:49 (MT 11) 20:20
23	07:22 17:03	06:46 17:43	06:01 18:15	16:16 (MT 11) 17:15 (MT 11)	06:10 19:49	17:49 (MT 11) 20:21
24	07:21 17:05	06:45 17:44	05:59 18:16	16:17 (MT 11) 17:16 (MT 11)	06:08 19:50	17:49 (MT 11) 20:22
25	07:20 17:06	06:43 17:45	05:57 18:17	16:16 (MT 11) 17:15 (MT 11)	06:07 19:52	17:49 (MT 11) 20:23
26	07:20 17:07	06:42 17:46	05:56 18:19	16:16 (MT 11) 17:15 (MT 11)	06:05 19:53	17:49 (MT 11) 20:24
27	07:19 17:08	06:40 17:48	05:54 18:20	16:17 (MT 11) 17:15 (MT 11)	06:04 19:54	17:49 (MT 11) 20:25
28	07:18 17:10	06:39 17:49	05:52 18:21	16:16 (MT 11) 17:14 (MT 11)	06:03 19:55	17:49 (MT 11) 20:26
29	07:17 17:11		06:50 19:22	17:16 (MT 11) 18:13 (MT 11)	06:01 19:56	17:49 (MT 11) 20:27
30	07:16 17:12		06:49 19:23	17:16 (MT 11) 18:12 (MT 11)	06:00 19:57	17:49 (MT 11) 20:28
31	07:15 17:14		06:47 19:24	17:17 (MT 11) 18:12 (MT 11)		17:49 (MT 11) 20:29
Potential sun hours	295	296	369	400	450	455
Total, worst case		172		1793		461
Sun reduction		0,46		0,44		0,48
Oper. time red.		0,70		0,70		0,70
Wind dir. red.		0,64		0,59		0,57
Total reduction		0,20		0,18		0,19
Total, real		35		325		88

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: R31 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:54 20:20	06:25 19:36	17:30 (MT 11) 18:44	06:56 17:52 (MT 11)	07:08 16:31
2	05:29 20:39	05:55 20:19	06:26 19:34	17:26 (MT 11) 18:42	06:58 18:42	07:09 16:31
3	05:30 20:39	05:56 20:18	06:27 19:32	17:24 (MT 11) 18:41	06:59 18:41	07:10 16:31
4	05:31 20:39	05:57 20:16	06:28 19:31	17:21 (MT 11) 18:39	07:00 18:39	07:11 16:30
5	05:31 20:39	05:58 20:15	06:30 19:29	17:19 (MT 11) 18:37	07:01 18:37	07:12 16:30
6	05:32 20:39	05:59 20:14	06:31 19:27	17:17 (MT 11) 18:36	07:02 18:36	07:13 16:30
7	05:32 20:38	06:00 20:13	06:32 19:26	17:16 (MT 11) 18:34	07:03 18:34	07:14 16:30
8	05:33 20:38	06:01 20:12	06:33 19:24	17:14 (MT 11) 18:32	07:04 18:32	07:15 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	17:13 (MT 11) 18:31	07:05 18:31	07:15 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	17:11 (MT 11) 18:29	07:06 18:29	07:16 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	17:10 (MT 11) 18:27	07:07 18:27	07:17 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	17:09 (MT 11) 18:26	07:08 18:26	07:18 16:30
13	05:37 20:36	06:06 20:05	06:38 19:15	17:08 (MT 11) 18:24	07:10 18:24	07:19 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	17:07 (MT 11) 18:22	07:11 18:22	07:20 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	17:06 (MT 11) 18:21	07:12 18:21	07:20 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	17:05 (MT 11) 18:19	07:13 18:19	07:21 16:31
17	05:40 20:33	06:10 19:59	06:42 19:08	17:04 (MT 11) 18:18	07:14 18:18	07:22 16:31
18	05:41 20:33	06:11 19:58	06:43 19:07	17:04 (MT 11) 18:16	07:15 18:16	07:22 16:31
19	05:41 20:32	06:12 19:56	06:44 19:05	17:03 (MT 11) 18:15	07:16 18:15	07:23 16:32
20	05:42 20:31	06:13 19:55	06:45 19:03	17:03 (MT 11) 18:13	07:18 18:13	07:24 16:32
21	05:43 20:30	06:14 19:53	06:46 19:01	17:02 (MT 11) 18:12	07:19 18:12	07:24 16:32
22	05:44 20:30	06:15 19:52	06:47 19:00	17:02 (MT 11) 18:10	07:20 18:10	07:25 16:33
23	05:45 20:29	06:16 19:50	06:48 18:58	17:02 (MT 11) 18:09	07:21 18:09	07:25 16:33
24	05:46 20:28	06:17 19:49	06:49 18:56	17:01 (MT 11) 18:07	07:22 18:07	07:26 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	17:01 (MT 11) 17:06	06:23 17:06	07:26 16:35
26	05:48 20:26	06:19 19:45	06:51 18:53	17:03 (MT 11) 17:04	06:25 17:04	07:27 16:35
27	05:49 20:25	06:20 19:44	06:52 18:51	07:54 (MT 14) 17:03	06:26 17:03	07:27 16:36
28	05:50 20:24	06:21 19:42	06:53 18:49	07:49 (MT 14) 17:02	06:27 17:02	07:27 16:37
29	05:51 20:23	06:22 19:41	06:54 18:48	07:46 (MT 14) 17:00	06:28 17:00	07:28 16:37
30	05:52 20:22	06:23 19:39	06:55 18:46	07:44 (MT 14) 17:53 (MT 11)	06:29 16:59	07:28 16:38
31	05:53 20:21	06:24 19:37	17:34 (MT 11) 17:48 (MT 11)		06:31 16:58	07:28 16:39
Potential sun hours	461	429	375	344	296	285
Total, worst case		14	1584		864	
Sun reduction		0,67	0,58		0,44	
Oper. time red.		0,70	0,70		0,70	
Wind dir. red.		0,57	0,57		0,62	
Total reduction		0,27	0,23		0,19	
Total, real		4	368		163	

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: R32 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:21 (MT 14) 16:50 (MT 11)	06:45 19:25	05:58 20:28
2	07:28 16:41	07:13 17:16	06:36 17:51	07:23 (MT 14) 16:50 (MT 11)	06:44 19:26	05:57 20:29
3	07:28 16:42	07:12 17:17	06:34 17:52	07:24 (MT 14) 16:50 (MT 11)	06:42 19:27	05:56 20:30
4	07:28 16:43	07:11 17:19	06:32 17:53	07:27 (MT 14) 16:50 (MT 11)	06:40 19:28	05:54 20:31
5	07:28 16:43	07:10 17:20	06:31 17:55	15:52 (MT 11) 16:50 (MT 11)	06:39 19:30	05:53 20:31
6	07:28 16:44	07:09 17:21	06:29 17:56	15:51 (MT 11) 16:49 (MT 11)	06:37 19:31	05:52 20:32
7	07:28 16:45	07:08 17:23	06:28 17:57	15:52 (MT 11) 16:49 (MT 11)	06:35 19:32	05:51 20:33
8	07:28 16:46	07:07 17:24	06:26 17:58	15:52 (MT 11) 16:48 (MT 11)	06:34 19:33	05:50 20:33
9	07:28 16:47	07:05 17:25	06:24 17:59	15:52 (MT 11) 16:47 (MT 11)	06:32 19:34	05:48 20:34
10	07:28 16:48	07:04 17:26	06:23 18:01	15:53 (MT 11) 16:47 (MT 11)	06:30 19:35	05:47 20:35
11	07:28 16:50	07:03 17:28	06:21 18:02	15:53 (MT 11) 16:46 (MT 11)	06:29 19:36	05:46 20:35
12	07:27 16:51	07:02 17:29	06:19 18:03	15:54 (MT 11) 16:45 (MT 11)	06:27 19:37	05:45 20:36
13	07:27 16:52	07:00 17:30	06:18 18:04	15:55 (MT 11) 16:44 (MT 11)	06:25 19:38	05:44 20:36
14	07:27 16:53	06:59 17:31	06:16 18:05	15:56 (MT 11) 16:43 (MT 11)	06:24 19:39	05:43 20:37
15	07:26 16:54	06:58 17:33	06:14 18:06	15:57 (MT 11) 16:41 (MT 11)	06:22 19:41	05:42 20:37
16	07:26 16:55	06:56 17:34	06:13 18:07	15:58 (MT 11) 16:39 (MT 11)	06:21 19:42	05:41 20:37
17	07:25 16:56	06:55 17:35	06:11 18:08	16:00 (MT 11) 16:38 (MT 11)	06:19 19:43	05:40 20:38
18	07:25 16:57	06:54 17:36	06:09 18:10	16:01 (MT 11) 16:36 (MT 11)	06:17 19:44	05:39 20:38
19	07:24 16:59	06:52 17:38	06:08 18:11	16:03 (MT 11) 16:34 (MT 11)	06:16 19:45	05:38 20:38
20	07:24 17:00	06:51 17:39	06:06 18:12	16:06 (MT 11) 16:31 (MT 11)	06:14 19:46	05:37 20:39
21	07:23 17:01	06:49 17:40	06:04 18:13	16:09 (MT 11) 16:27 (MT 11)	06:13 19:47	05:36 20:39
22	07:22 17:02	06:48 17:41	06:02 18:14	16:17 (MT 11) 16:19 (MT 11)	06:11 19:48	05:35 20:39
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:27 20:40
26	07:20 17:07	06:42 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40
27	07:19 17:08	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40
29	07:17 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:29 20:40
31	07:15 17:14		06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Total, worst case		1281	1085			
Sun reduction		0,46	0,44			
Oper. time red.		0,70	0,70			
Wind dir. red.		0,60	0,57			
Total reduction		0,19	0,18			
Total, real		247	191			

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: R32 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:54 20:20	06:25 19:36	06:56 18:44	16:34 (MT 11) 17:24 (MT 11)	07:01 (MT 14) 07:08
2	05:29 20:39	05:55 20:19	06:26 19:34	06:58 18:42	16:32 (MT 11) 17:24 (MT 11)	07:09 16:31
3	05:30 20:39	05:56 20:18	06:27 19:32	06:59 18:41	16:31 (MT 11) 17:25 (MT 11)	07:10 16:31
4	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	16:30 (MT 11) 17:25 (MT 11)	07:11 16:30
5	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	16:29 (MT 11) 17:25 (MT 11)	07:12 16:30
6	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	16:28 (MT 11) 17:25 (MT 11)	07:13 16:30
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	16:27 (MT 11) 17:25 (MT 11)	07:14 16:30
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	16:27 (MT 11) 17:24 (MT 11)	07:15 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	08:04 (MT 14) 17:25 (MT 11)	06:42 16:47
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	08:00 (MT 14) 17:25 (MT 11)	06:43 16:46
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	07:57 (MT 14) 17:24 (MT 11)	06:44 16:45
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	07:55 (MT 14) 17:24 (MT 11)	06:45 16:44
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	07:54 (MT 14) 17:23 (MT 11)	06:47 16:43
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	07:52 (MT 14) 17:22 (MT 11)	06:48 16:42
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	07:52 (MT 14) 17:23 (MT 11)	06:49 16:41
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	07:51 (MT 14) 17:22 (MT 11)	06:50 16:40
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	07:50 (MT 14) 17:21 (MT 11)	06:51 16:39
18	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	07:49 (MT 14) 17:20 (MT 11)	06:53 16:38
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	07:49 (MT 14) 17:19 (MT 11)	06:54 16:38
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	07:49 (MT 14) 17:18 (MT 11)	06:55 16:37
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	07:49 (MT 14) 17:17 (MT 11)	06:56 16:36
22	05:44 20:30	06:15 19:52	06:47 19:00	16:55 (MT 11) 17:10 (MT 11)	07:20 18:10	06:57 16:36
23	05:45 20:29	06:16 19:50	06:48 18:58	16:50 (MT 11) 17:14 (MT 11)	07:21 18:09	06:59 16:35
24	05:46 20:28	06:17 19:49	06:49 18:56	16:47 (MT 11) 17:16 (MT 11)	07:22 18:07	07:00 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	16:44 (MT 11) 17:18 (MT 11)	06:23 17:06	07:01 16:34
26	05:48 20:26	06:19 19:45	06:51 18:53	16:43 (MT 11) 17:20 (MT 11)	06:25 17:04	07:02 16:33
27	05:49 20:25	06:20 19:44	06:52 18:51	16:41 (MT 11) 17:21 (MT 11)	06:26 17:03	07:03 16:33
28	05:50 20:24	06:21 19:42	06:53 18:49	16:39 (MT 11) 17:22 (MT 11)	06:27 17:02	07:04 16:32
29	05:51 20:23	06:22 19:41	06:54 18:48	16:37 (MT 11) 17:23 (MT 11)	06:28 17:00	07:05 16:32
30	05:52 20:22	06:23 19:39	06:55 18:46	16:35 (MT 11) 17:24 (MT 11)	06:29 16:59	07:06 16:31
31	05:53 20:21	06:24 19:37		06:31 16:58	06:57 (MT 14) 07:13 (MT 14)	07:28 16:39
Potential sun hours	461	429	375	344	296	285
Total, worst case			317	2085	9	
Sun reduction			0,58	0,44	0,41	
Oper. time red.			0,70	0,70	0,70	
Wind dir. red.			0,57	0,59	0,65	
Total reduction			0,23	0,18	0,19	
Total, real			73	377	2	

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: R35 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	14:52 (MT 11) 15:35 (MT 11)	07:14 17:15	07:36 (MT 14) 15:56 (MT 11)	06:37 17:50	06:45 19:25
2	07:28 16:41	14:52 (MT 11) 15:36 (MT 11)	07:13 17:16	07:34 (MT 14) 15:55 (MT 11)	06:36 17:51	06:44 19:26
3	07:28 16:42	14:52 (MT 11) 15:37 (MT 11)	07:12 17:17	07:33 (MT 14) 15:55 (MT 11)	06:34 17:52	06:42 19:27
4	07:28 16:43	14:52 (MT 11) 15:38 (MT 11)	07:11 17:19	07:32 (MT 14) 15:55 (MT 11)	06:32 17:53	06:40 19:28
5	07:28 16:43	14:52 (MT 11) 15:39 (MT 11)	07:10 17:20	07:32 (MT 14) 15:55 (MT 11)	06:31 17:55	06:39 19:30
6	07:28 16:44	14:52 (MT 11) 15:40 (MT 11)	07:09 17:21	07:32 (MT 14) 15:55 (MT 11)	06:29 17:56	06:37 19:31
7	07:28 16:45	14:53 (MT 11) 15:41 (MT 11)	07:08 17:23	07:31 (MT 14) 15:55 (MT 11)	06:28 17:57	06:35 19:32
8	07:28 16:46	14:52 (MT 11) 15:41 (MT 11)	07:07 17:24	07:31 (MT 14) 15:55 (MT 11)	06:26 17:58	06:34 19:33
9	07:28 16:47	14:52 (MT 11) 15:42 (MT 11)	07:05 17:25	07:31 (MT 14) 15:54 (MT 11)	06:24 17:59	06:32 19:34
10	07:28 16:48	14:52 (MT 11) 15:43 (MT 11)	07:04 17:26	07:31 (MT 14) 15:54 (MT 11)	06:23 18:01	06:30 19:35
11	07:28 16:50	14:52 (MT 11) 15:44 (MT 11)	07:03 17:28	07:31 (MT 14) 15:53 (MT 11)	06:21 18:02	06:29 19:36
12	07:27 16:51	14:52 (MT 11) 15:45 (MT 11)	07:02 17:29	07:31 (MT 14) 15:52 (MT 11)	06:19 18:03	06:27 19:37
13	07:27 16:52	14:52 (MT 11) 15:46 (MT 11)	07:00 17:30	07:31 (MT 14) 15:51 (MT 11)	06:18 18:04	06:25 19:38
14	07:27 16:53	14:51 (MT 11) 15:46 (MT 11)	06:59 17:31	07:32 (MT 14) 15:51 (MT 11)	06:16 18:05	06:24 19:39
15	07:26 16:54	14:52 (MT 11) 15:47 (MT 11)	06:58 17:33	07:32 (MT 14) 15:49 (MT 11)	06:14 18:06	06:22 19:41
16	07:26 16:55	14:51 (MT 11) 15:48 (MT 11)	06:56 17:34	07:33 (MT 14) 15:48 (MT 11)	06:13 18:07	06:21 19:42
17	07:25 16:56	14:52 (MT 11) 15:49 (MT 11)	06:55 17:35	07:34 (MT 14) 15:47 (MT 11)	06:11 18:08	06:19 19:43
18	07:25 16:57	14:51 (MT 11) 15:49 (MT 11)	06:54 17:37	07:35 (MT 14) 15:44 (MT 11)	06:09 18:10	06:17 19:44
19	07:24 16:59	14:52 (MT 11) 15:51 (MT 11)	06:52 17:38	07:37 (MT 14) 15:42 (MT 11)	06:08 18:11	06:16 19:45
20	07:24 17:00	14:52 (MT 11) 15:51 (MT 11)	06:51 17:39	07:39 (MT 14) 15:39 (MT 11)	06:06 18:12	06:14 19:46
21	07:23 17:01	14:51 (MT 11) 15:51 (MT 11)	06:49 17:40	15:20 (MT 11) 15:35 (MT 11)	06:04 18:13	06:13 19:47
22	07:22 17:02	14:52 (MT 11) 15:53 (MT 11)	06:48 17:41		06:02 18:14	06:11 19:48
23	07:22 17:03	14:52 (MT 11) 15:53 (MT 11)	06:46 17:43		06:01 18:15	06:10 19:49
24	07:21 17:05	14:52 (MT 11) 15:53 (MT 11)	06:45 17:44		05:59 18:16	06:08 19:50
25	07:20 17:06	14:52 (MT 11) 15:53 (MT 11)	06:43 17:45		05:57 18:17	06:07 19:52
26	07:20 17:07	14:52 (MT 11) 15:54 (MT 11)	06:42 17:46		05:56 18:19	06:05 19:53
27	07:19 17:08	14:52 (MT 11) 15:54 (MT 11)	06:40 17:48		05:54 18:20	06:04 19:54
28	07:18 17:10	14:52 (MT 11) 15:54 (MT 11)	06:39 17:49		05:52 18:21	06:03 19:55
29	07:17 17:11	14:53 (MT 11) 15:55 (MT 11)			06:50 19:22	06:01 19:56
30	07:16 17:12	07:39 (MT 14) 15:56 (MT 11)			06:49 19:23	06:00 19:57
31	07:15 17:14	07:37 (MT 14) 15:56 (MT 11)			06:47 19:24	05:29 20:28
Potential sun hours	295	296		369	400	455
Total, worst case	1735		1531			
Sun reduction	0,44		0,46			
Oper. time red.	0,70		0,70			
Wind dir. red.	0,54		0,58			
Total reduction	0,17		0,18			
Total, real	289		283			

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: R35 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:01 (MT 14) 15:23 (MT 11)
2	05:29 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:00 (MT 14) 15:24 (MT 11)
3	05:30 20:39	05:56 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:00 (MT 14) 15:24 (MT 11)
4	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:01 (MT 14) 15:25 (MT 11)
5	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	07:02 (MT 14) 15:25 (MT 11)
6	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:02 (MT 14) 15:25 (MT 11)
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:03 (MT 14) 15:26 (MT 11)
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:04 (MT 14) 15:26 (MT 11)
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:05 (MT 14) 15:26 (MT 11)
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:07 (MT 14) 15:27 (MT 11)
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:08 (MT 14) 15:27 (MT 11)
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:11 (MT 14) 15:27 (MT 11)
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	14:24 (MT 11) 15:26 (MT 11)
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	14:25 (MT 11) 15:27 (MT 11)
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	14:25 (MT 11) 15:27 (MT 11)
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	14:25 (MT 11) 15:27 (MT 11)
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	14:26 (MT 11) 15:27 (MT 11)
18	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	14:26 (MT 11) 15:27 (MT 11)
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	14:26 (MT 11) 15:27 (MT 11)
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	14:26 (MT 11) 15:27 (MT 11)
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	14:27 (MT 11) 15:27 (MT 11)
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	14:28 (MT 11) 15:27 (MT 11)
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	14:28 (MT 11) 15:27 (MT 11)
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	14:28 (MT 11) 15:26 (MT 11)
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	14:30 (MT 11) 15:27 (MT 11)
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	14:30 (MT 11) 15:27 (MT 11)
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	14:31 (MT 11) 15:27 (MT 11)
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	14:31 (MT 11) 15:26 (MT 11)
29	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	14:32 (MT 11) 15:26 (MT 11)
30	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	14:33 (MT 11) 15:26 (MT 11)
31	05:53 20:21	06:24 19:37	06:56 18:45	06:31 16:58	07:07 (MT 14) 15:22 (MT 11)	14:33 (MT 11) 16:39
Potential sun hours	461	429	375	344	296	285
Total, worst case				695	2069	1329
Sun reduction				0,44	0,41	0,36
Oper. time red.				0,70	0,70	0,70
Wind dir. red.				0,58	0,55	0,54
Total reduction				0,18	0,16	0,14
Total, real				124	325	181

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: R39 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June		
1	07:28	09:45 (MT 11)	07:14	10:24 (MT 11)	06:37	06:45	05:58	05:29
	16:40	80 11:05 (MT 11)	17:15	17:50	19:25	19:58	20:28	
2	07:28	09:46 (MT 11)	07:13	06:36	06:44	05:57	05:28	
	16:41	80 11:06 (MT 11)	17:16	17:51	19:26	19:59	20:29	
3	07:28	09:46 (MT 11)	07:12	06:34	06:42	05:56	05:28	
	16:42	80 11:06 (MT 11)	17:17	17:52	19:27	20:00	20:30	
4	07:28	09:47 (MT 11)	07:11	06:33	06:40	05:55	05:27	
	16:43	79 11:06 (MT 11)	17:19	17:54	19:28	20:01	20:31	
5	07:28	09:48 (MT 11)	07:10	06:31	06:39	05:53	05:27	
	16:43	79 11:07 (MT 11)	17:20	17:55	19:30	20:02	20:31	
6	07:28	09:48 (MT 11)	07:09	06:29	06:37	05:52	05:27	
	16:44	79 11:07 (MT 11)	17:21	17:56	19:31	20:04	20:32	
7	07:28	09:49 (MT 11)	07:08	06:28	06:35	05:51	05:26	
	16:45	78 11:07 (MT 11)	17:23	17:57	19:32	20:05	20:33	
8	07:28	09:49 (MT 11)	07:07	06:26	06:34	05:50	05:26	
	16:46	77 11:06 (MT 11)	17:24	17:58	19:33	20:06	20:33	
9	07:28	09:50 (MT 11)	07:05	06:24	06:32	05:48	05:26	
	16:47	77 11:07 (MT 11)	17:25	17:59	19:34	20:07	20:34	
10	07:28	09:51 (MT 11)	07:04	06:23	06:30	05:47	05:26	
	16:48	76 11:07 (MT 11)	17:26	18:01	19:35	20:08	20:35	
11	07:28	09:52 (MT 11)	07:03	06:21	06:29	05:46	05:25	
	16:50	75 11:07 (MT 11)	17:28	18:02	19:36	20:09	20:35	
12	07:27	09:52 (MT 11)	07:02	06:19	06:27	05:45	05:25	
	16:51	75 11:07 (MT 11)	17:29	18:03	19:37	20:10	20:36	
13	07:27	09:53 (MT 11)	07:00	06:18	06:25	05:44	05:25	
	16:52	74 11:07 (MT 11)	17:30	18:04	19:38	20:11	20:36	
14	07:27	09:53 (MT 11)	06:59	06:16	06:24	05:43	05:25	
	16:53	73 11:06 (MT 11)	17:32	18:05	19:39	20:12	20:37	
15	07:26	09:55 (MT 11)	06:58	07:17 (MT 14)	06:14	06:22	05:42	05:25
	16:54	71 11:06 (MT 11)	17:33	3 07:20 (MT 14)	18:06	19:41	20:13	20:37
16	07:26	09:55 (MT 11)	06:56	07:16 (MT 14)	06:13	06:21	05:41	05:25
	16:55	71 11:06 (MT 11)	17:34	6 07:22 (MT 14)	18:07	19:42	20:14	20:37
17	07:25	09:56 (MT 11)	06:55	07:15 (MT 14)	06:11	06:19	05:40	05:25
	16:56	70 11:06 (MT 11)	17:35	9 07:24 (MT 14)	18:09	19:43	20:15	20:38
18	07:25	09:57 (MT 11)	06:54	07:13 (MT 14)	06:09	06:17	05:39	05:25
	16:57	68 11:05 (MT 11)	17:37	11 07:24 (MT 14)	18:10	19:44	20:16	20:38
19	07:24	09:59 (MT 11)	06:52	07:12 (MT 14)	06:08	06:16	05:38	05:25
	16:59	66 11:05 (MT 11)	17:38	13 07:25 (MT 14)	18:11	19:45	20:17	20:38
20	07:24	09:59 (MT 11)	06:51	07:10 (MT 14)	06:06	06:14	05:37	05:25
	17:00	65 11:04 (MT 11)	17:39	15 07:25 (MT 14)	18:12	19:46	20:18	20:39
21	07:23	10:00 (MT 11)	06:49	07:09 (MT 14)	06:04	06:13	05:36	05:26
	17:01	63 11:03 (MT 11)	17:40	17 07:26 (MT 14)	18:13	19:47	20:19	20:39
22	07:22	10:02 (MT 11)	06:48	07:07 (MT 14)	06:02	06:11	05:35	05:26
	17:02	61 11:03 (MT 11)	17:41	18 07:25 (MT 14)	18:14	19:48	20:20	20:39
23	07:22	10:03 (MT 11)	06:46	07:06 (MT 14)	06:01	06:10	05:35	05:26
	17:04	59 11:02 (MT 11)	17:43	19 07:25 (MT 14)	18:15	19:49	20:21	20:39
24	07:21	10:04 (MT 11)	06:45	07:05 (MT 14)	05:59	06:08	05:34	05:26
	17:05	56 11:00 (MT 11)	17:44	19 07:24 (MT 14)	18:16	19:50	20:22	20:40
25	07:20	10:05 (MT 11)	06:43	07:06 (MT 14)	05:57	06:07	05:33	05:27
	17:06	54 10:59 (MT 11)	17:45	18 07:24 (MT 14)	18:17	19:52	20:23	20:40
26	07:20	10:07 (MT 11)	06:42	07:07 (MT 14)	05:56	06:05	05:32	05:27
	17:07	50 10:57 (MT 11)	17:46	15 07:22 (MT 14)	18:19	19:53	20:23	20:40
27	07:19	10:08 (MT 11)	06:40	07:09 (MT 14)	05:54	06:04	05:32	05:27
	17:09	47 10:55 (MT 11)	17:48	11 07:20 (MT 14)	18:20	19:54	20:24	20:40
28	07:18	10:10 (MT 11)	06:39	07:12 (MT 14)	05:52	06:03	05:31	05:28
	17:10	43 10:53 (MT 11)	17:49	4 07:16 (MT 14)	18:21	19:55	20:25	20:40
29	07:17	10:13 (MT 11)			06:50	06:01	05:30	05:28
	17:11	39 10:52 (MT 11)			19:22	19:56	20:26	20:40
30	07:16	10:16 (MT 11)			06:49	06:00	05:30	05:29
	17:12	33 10:49 (MT 11)			19:23	19:57	20:27	20:40
31	07:15	10:19 (MT 11)			06:47		05:29	
	17:14	27 10:46 (MT 11)			19:24		20:28	
Potential sun hours	295	296		369	400	450	455	
Total, worst case	2025	195						
Sun reduction	0,44	0,46						
Oper. time red.	0,70	0,70						
Wind dir. red.	0,71	0,65						
Total reduction	0,22	0,21						
Total, real	446	41						

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: R39 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:54 20:20	06:25 19:36	06:57 18:44	06:32 16:56	07:08 16:31
2	05:30 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	75 16:30
3	05:30 20:39	05:56 20:18	06:27 19:32	06:59 18:41	06:34 16:54	76 16:30
4	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:39	06:36 16:53	77 16:30
5	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	78 16:30
6	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	79 16:30
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	79 16:30
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	79 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	80 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	80 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	81 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:09 18:26	06:45 16:44	81 16:30
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	81 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:23	06:48 16:42	81 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	82 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	82 16:30
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	82 16:30
18	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	81 16:30
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	81 16:30
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	81 16:30
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	82 16:30
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	82 16:30
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	82 16:30
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	81 16:30
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	81 16:30
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	81 16:30
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	81 16:30
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	81 16:30
29	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	81 16:30
30	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	81 16:30
31	05:53 20:21	06:24 19:37	06:56 18:45	06:31 16:58	07:08 16:30	81 16:30
Potential sun hours	461	429	375	344	296	285
Total, worst case				182	1185	2488
Sun reduction				0,44	0,41	0,36
Oper. time red.				0,70	0,70	0,70
Wind dir. red.				0,64	0,71	0,71
Total reduction				0,20	0,20	0,18
Total, real				36	239	451

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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Project:

WF Montorio

Licensed user:

Ge.co.Dor srl
Via P.Amedeo n.32
IT-75021 Colobraro (MT)

Gaetano / info@gecodor.it

Calculated:

15/02/2022 19:06/3.4.424

SHADOW - Calendar

Shadow receptor: R41 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 2 rows of data for sunshine probability.

Operational time

Table with 13 columns (N, NNE, ENE, E, ESE, SSE, S, SSW, WSW, W, WNW, NNW, Sum) and 2 rows of data.

Main shadow calculation table with columns for months (January-December) and rows for time intervals (07:28-17:14) and summary rows (Potential sun hours, Total, worst case, etc.).

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

Matrix layout table with columns: 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).

SHADOW - Calendar

Shadow receptor: R42 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:40	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30
4	07:28 16:43	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:11 16:30
5	07:28 16:43	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	07:12 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:04	05:27 20:32	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:45	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:14 16:30
8	07:28 16:46	07:07 17:24	06:26 17:58	06:34 19:33	05:49 20:06	05:26 20:33	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:15 16:30
10	07:28 16:48	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:35	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30
11	07:28 16:49	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	07:19 16:30
14	07:27 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:54 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	07:23 16:31
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:27 20:40	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:20 17:07	06:42 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	07:27 16:35
27	07:19 17:08	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:28 16:37
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	07:28 16:38
31	07:15 17:14		06:47 19:24		05:29 20:28		05:53 20:21	06:24 19:37		06:31 16:58		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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

SHADOW - Calendar

Shadow receptor: R43 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:40	05:52 (MT 18) 06:00 (MT 18)	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:52 (MT 18) 05:59 (MT 18)	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:53 (MT 18) 06:00 (MT 18)	05:56 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30
4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	05:31 20:39	05:54 (MT 18) 06:00 (MT 18)	05:58 20:16	06:29 19:31	07:01 18:39	06:37 16:53	07:12 16:30
5	07:28 16:43	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:54 (MT 18) 05:59 (MT 18)	05:58 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:04	05:27 20:32	05:32 20:39	05:54 (MT 18) 05:59 (MT 18)	05:32 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:45	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	05:32 20:38	05:54 (MT 18) 05:52 (MT 18)	05:32 20:13	06:00 19:26	07:03 18:34	06:39 16:49	07:14 16:30
8	07:28 16:46	07:07 17:24	06:26 17:58	06:34 19:33	05:49 20:06	05:26 20:33	05:26 20:38	05:48 (MT 18) 05:53 (MT 18)	05:33 20:18	06:01 19:24	06:33 18:32	06:40 16:48	07:15 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:26 20:39	05:53 (MT 18) 05:48 (MT 18)	05:34 20:10	06:02 19:22	06:34 18:31	07:05 16:47	07:16 16:30
10	07:28 16:48	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:35	05:26 20:40	05:48 (MT 18) 05:55 (MT 18)	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	07:16 16:30
11	07:28 16:49	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35	05:25 20:40	05:48 (MT 18) 05:56 (MT 18)	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:19 19:37	05:45 20:10	05:25 20:36	05:25 20:40	05:48 (MT 18) 05:56 (MT 18)	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:25 20:40	05:48 (MT 18) 05:57 (MT 18)	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	07:19 16:30
14	07:27 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	05:25 20:40	05:48 (MT 18) 05:57 (MT 18)	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:25 20:40	05:48 (MT 18) 05:58 (MT 18)	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	07:20 16:30
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:25 20:40	05:48 (MT 18) 05:58 (MT 18)	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:25 20:40	05:48 (MT 18) 05:58 (MT 18)	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	07:22 16:31
18	07:25 16:57	06:54 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:25 20:40	05:48 (MT 18) 05:59 (MT 18)	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	07:23 16:31
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:25 20:40	05:48 (MT 18) 05:59 (MT 18)	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:25 20:40	05:48 (MT 18) 05:59 (MT 18)	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:26 20:40	05:48 (MT 18) 05:59 (MT 18)	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:26 20:40	05:49 (MT 18) 06:00 (MT 18)	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	07:25 16:33
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:26 20:40	05:49 (MT 18) 06:00 (MT 18)	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39	05:26 20:40	05:49 (MT 18) 06:00 (MT 18)	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:27 20:40	05:27 20:40	05:49 (MT 18) 05:59 (MT 18)	05:47 20:27	06:18 19:47	06:50 18:54	07:23 17:06	07:26 16:35
26	07:20 17:07	06:42 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40	05:27 20:40	05:50 (MT 18) 06:00 (MT 18)	05:48 20:26	06:19 19:46	06:51 18:53	07:25 17:04	07:27 16:35
27	07:19 17:08	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:27 20:40	05:50 (MT 18) 06:00 (MT 18)	05:49 20:25	06:20 19:44	06:52 18:51	07:26 17:03	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	05:28 20:40	05:51 (MT 18) 06:01 (MT 18)	05:50 20:24	06:21 19:42	06:53 18:49	07:27 17:02	07:27 16:37
29	07:17 17:11	06:38 17:52	05:51 18:22	06:02 19:56	05:30 20:26	05:28 20:40	05:28 20:40	05:51 (MT 18) 06:01 (MT 18)	05:51 20:23	06:22 19:41	06:54 18:48	07:28 17:00	07:28 16:37
30	07:16 17:12	06:37 17:53	05:50 18:23	06:01 19:57	05:30 20:27	05:28 20:40	05:28 20:40	05:50 (MT 18) 06:00 (MT 18)	05:52 20:22	06:23 19:39	06:55 18:46	07:29 16:59	07:28 16:38
31	07:15 17:14	06:36 17:54	05:49 18:24	06:00 19:58	05:29 20:28	05:28 20:40	05:28 20:40	05:53 (MT 18) 20:21	05:53 20:21	06:24 19:37	06:56 18:47	07:30 16:58	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285	
Total, worst case						226							40
Sun reduction						0,54							0,61
Oper. time red.						0,70							0,70
Wind dir. red.						0,56							0,56
Total reduction						0,21							0,24
Total, real						48							10

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: R45 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	06:11 (MT 15) 06:24 (MT 15)
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	06:12 (MT 15) 06:23 (MT 15)
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	06:14 (MT 15) 06:22 (MT 15)
4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	06:16 (MT 15) 06:20 (MT 15)
5	07:28 16:43	07:10 17:20	06:31 17:55	06:38 19:30	05:53 20:02	05:27 20:31	06:13 (MT 15) 06:21 (MT 15)
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	06:12 (MT 15) 06:24 (MT 15)
7	07:28 16:45	07:08 17:22	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	06:11 (MT 15) 06:26 (MT 15)
8	07:28 16:46	07:07 17:24	06:26 17:58	06:33 19:33	05:49 20:06	05:26 20:33	06:09 (MT 15) 06:26 (MT 15)
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	06:08 (MT 15) 06:27 (MT 15)
10	07:28 16:48	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:35	06:07 (MT 15) 06:28 (MT 15)
11	07:28 16:49	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35	06:06 (MT 15) 06:28 (MT 15)
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36	06:05 (MT 15) 06:29 (MT 15)
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	06:04 (MT 15) 06:29 (MT 15)
14	07:27 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	06:03 (MT 15) 06:30 (MT 15)
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	06:03 (MT 15) 06:30 (MT 15)
16	07:26 16:55	06:56 17:34	06:13 18:07	06:20 19:42	05:41 20:14	05:25 20:37	06:03 (MT 15) 06:30 (MT 15)
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	06:03 (MT 15) 06:30 (MT 15)
18	07:25 16:57	06:54 17:36	06:09 18:09	06:17 19:44	05:39 20:16	05:25 20:38	06:03 (MT 15) 06:30 (MT 15)
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	06:04 (MT 15) 06:30 (MT 15)
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	06:04 (MT 15) 06:30 (MT 15)
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	06:04 (MT 15) 06:30 (MT 15)
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	06:04 (MT 15) 06:29 (MT 15)
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	06:05 (MT 15) 06:30 (MT 15)
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39	06:05 (MT 15) 06:29 (MT 15)
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:23	05:27 20:40	06:05 (MT 15) 06:28 (MT 15)
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:53	05:32 20:23	05:27 20:40	06:07 (MT 15) 06:28 (MT 15)
27	07:19 17:08	06:40 17:47	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	06:07 (MT 15) 06:28 (MT 15)
28	07:18 17:10	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:28 20:40	06:07 (MT 15) 06:27 (MT 15)
29	07:17 17:11	06:37 19:22	06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40	06:08 (MT 15) 06:27 (MT 15)
30	07:16 17:12	06:35 19:23	06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40	06:09 (MT 15) 06:26 (MT 15)
31	07:15 17:13	06:34 19:24	06:47 19:24	05:29 20:28	05:29 20:28	05:28 20:40	06:10 (MT 15) 06:25 (MT 15)
Potential sun hours	295	296	369	400	450	455	
Total, worst case					586		36
Sun reduction					0,47		0,54
Oper. time red.					0,70		0,70
Wind dir. red.					0,57		0,57
Total reduction					0,18		0,21
Total, real					108		8

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: R45 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

July		August		September		October		November		December	
1	05:29		05:53		06:16 (MT 15)		06:25		06:56		07:08
	20:40		20:20	23	06:39 (MT 15)		19:36		18:44		16:31
2	05:29		05:54		06:17 (MT 15)		06:26		06:58		07:09
	20:39		20:19	22	06:39 (MT 15)		19:34		18:42		16:31
3	05:30		05:55		06:18 (MT 15)		06:27		06:59		07:10
	20:39		20:18	20	06:38 (MT 15)		19:32		18:41		16:30
4	05:30		05:56		06:19 (MT 15)		06:28		07:00		07:11
	20:39		20:16	18	06:37 (MT 15)		19:31		18:39		16:30
5	05:31		05:57		06:20 (MT 15)		06:29		07:01		07:12
	20:39		20:15	16	06:36 (MT 15)		19:29		18:37		16:30
6	05:32		05:58		06:21 (MT 15)		06:30		07:02		07:13
	20:39		20:14	14	06:35 (MT 15)		19:27		18:36		16:30
7	05:32		06:00		06:22 (MT 15)		06:32		07:03		07:14
	20:38		20:13	11	06:33 (MT 15)		19:26		18:34		16:30
8	05:33		06:01		06:24 (MT 15)		06:33		07:04		07:15
	20:38		20:12	5	06:29 (MT 15)		19:24		18:32		16:30
9	05:34		06:02				06:34		07:05		07:15
	20:38	7	06:29 (MT 15)				19:22		18:31		16:30
10	05:34		06:20 (MT 15)				06:35		07:06		07:16
	20:37	10	06:30 (MT 15)				19:20		18:29		16:30
11	05:35		06:20 (MT 15)				06:36		07:07		07:17
	20:37	12	06:32 (MT 15)				19:19		18:27		16:30
12	05:36		06:19 (MT 15)				06:37		07:08		07:18
	20:36	14	06:33 (MT 15)				19:17		18:26		16:30
13	05:36		06:17 (MT 15)				06:38		07:10		07:19
	20:36	16	06:33 (MT 15)				19:15		18:24		16:30
14	05:37		06:17 (MT 15)				06:39		07:11		07:20
	20:35	18	06:35 (MT 15)				19:14		18:22		16:30
15	05:38		06:17 (MT 15)				06:40		07:12		07:20
	20:35	19	06:36 (MT 15)				19:12		18:21		16:30
16	05:39		06:16 (MT 15)				06:41		07:13		07:21
	20:34	21	06:37 (MT 15)				19:10		18:19		16:31
17	05:40		06:16 (MT 15)				06:42		07:14		07:22
	20:33	22	06:38 (MT 15)				19:08		18:18		16:31
18	05:40		06:15 (MT 15)				06:43		07:15		07:22
	20:33	22	06:37 (MT 15)				19:07		18:16		16:31
19	05:41		06:15 (MT 15)				06:44		07:16		07:23
	20:32	23	06:38 (MT 15)				19:05		18:15		16:32
20	05:42		06:15 (MT 15)				06:45		07:18		07:24
	20:31	24	06:39 (MT 15)				19:03		18:13		16:32
21	05:43		06:14 (MT 15)				06:46		07:19		07:24
	20:30	25	06:39 (MT 15)				19:01		18:12		16:32
22	05:44		06:14 (MT 15)				06:47		07:20		07:25
	20:30	26	06:40 (MT 15)				19:00		18:10		16:33
23	05:45		06:14 (MT 15)				06:48		07:21		07:25
	20:29	26	06:40 (MT 15)				18:58		18:09		16:33
24	05:46		06:13 (MT 15)				06:49		07:22		07:26
	20:28	27	06:40 (MT 15)				18:56		18:07		16:34
25	05:47		06:13 (MT 15)				06:50		07:23		07:26
	20:27	27	06:40 (MT 15)				18:54		17:06		16:35
26	05:48		06:13 (MT 15)				06:51		07:25		07:27
	20:26	27	06:40 (MT 15)				18:53		17:04		16:35
27	05:49		06:13 (MT 15)				06:52		07:26		07:27
	20:25	27	06:40 (MT 15)				18:51		17:03		16:36
28	05:50		06:14 (MT 15)				06:53		07:27		07:27
	20:24	26	06:40 (MT 15)				18:49		17:02		16:36
29	05:51		06:14 (MT 15)				06:54		07:28		07:28
	20:23	26	06:40 (MT 15)				18:47		17:00		16:37
30	05:51		06:14 (MT 15)				06:55		07:29		07:28
	20:22	26	06:40 (MT 15)				18:46		16:59		16:38
31	05:52		06:15 (MT 15)						06:31		07:28
	20:21	25	06:40 (MT 15)						16:58		16:39
Potential sun hours	461		429				375		344		285
Total, worst case	496		129								
Sun reduction	0,61		0,67								
Oper. time red.	0,70		0,70								
Wind dir. red.	0,57		0,57								
Total reduction	0,24		0,26								
Total, real	119		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: R5 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June				
1	07:28 16:40	07:14 17:15	06:37 17:50	06:56 (67) 07:01 (67)	06:45 19:25	17:47 (MT 01) 18:12 (MT 01)	05:59 19:58	17:22 (MT 01) 18:27 (MT 01)	05:29 20:28	06:11 (MT 02) 07:21 (MT 02)
2	07:28 16:41	07:13 17:16	06:36 17:51	06:55 (67) 07:03 (67)	06:44 19:26	17:43 (MT 01) 18:15 (MT 01)	05:57 19:59	17:23 (MT 01) 18:27 (MT 01)	05:28 20:29	06:10 (MT 02) 07:21 (MT 02)
3	07:28 16:42	07:12 17:17	06:34 17:52	06:53 (67) 07:04 (67)	06:42 19:27	17:41 (MT 01) 18:18 (MT 01)	05:56 20:00	17:23 (MT 01) 18:25 (MT 01)	05:28 20:30	06:10 (MT 02) 07:22 (MT 02)
4	07:28 16:43	07:11 17:19	06:32 17:54	06:52 (67) 07:05 (67)	06:40 19:28	17:38 (MT 01) 18:20 (MT 01)	05:55 20:01	17:24 (MT 01) 18:25 (MT 01)	05:27 20:31	06:09 (MT 02) 07:22 (MT 02)
5	07:28 16:44	07:10 17:20	06:31 17:55	06:50 (67) 07:05 (67)	06:39 19:29	17:35 (MT 01) 18:21 (MT 01)	05:53 20:02	17:24 (MT 01) 18:25 (MT 01)	05:27 20:31	06:09 (MT 02) 07:23 (MT 02)
6	07:28 16:45	07:09 17:21	06:29 17:56	06:48 (67) 07:04 (67)	06:37 19:31	17:34 (MT 01) 18:23 (MT 01)	05:52 20:03	17:25 (MT 01) 18:24 (MT 01)	05:27 20:32	06:09 (MT 02) 07:24 (MT 02)
7	07:28 16:46	07:08 17:23	06:28 17:57	06:47 (67) 07:04 (67)	06:35 19:32	17:32 (MT 01) 18:24 (MT 01)	05:51 20:04	17:26 (MT 01) 18:24 (MT 01)	05:26 20:33	06:09 (MT 02) 07:24 (MT 02)
8	07:28 16:47	07:06 17:24	06:26 17:58	06:47 (67) 07:03 (67)	06:34 19:33	17:30 (MT 01) 18:25 (MT 01)	05:50 20:06	17:27 (MT 01) 18:23 (MT 01)	05:26 20:33	06:08 (MT 02) 07:24 (MT 02)
9	07:28 16:48	07:05 17:25	06:24 17:59	06:47 (67) 07:01 (67)	06:32 19:34	17:29 (MT 01) 18:26 (MT 01)	05:48 20:07	17:27 (MT 01) 18:22 (MT 01)	05:26 20:34	06:08 (MT 02) 07:25 (MT 02)
10	07:28 16:49	07:04 17:26	06:23 18:01	06:49 (67) 07:00 (67)	06:30 19:35	17:28 (MT 01) 18:27 (MT 01)	05:47 20:08	17:28 (MT 01) 18:21 (MT 01)	05:26 20:34	06:08 (MT 02) 07:25 (MT 02)
11	07:27 16:50	07:03 17:28	06:21 18:02	06:51 (67) 06:57 (67)	06:29 19:36	17:26 (MT 01) 18:27 (MT 01)	05:46 20:09	17:29 (MT 01) 18:20 (MT 01)	05:26 20:35	06:08 (MT 02) 07:26 (MT 02)
12	07:27 16:51	07:02 17:29	06:19 18:03	06:19 18:03	06:27 19:37	17:26 (MT 01) 18:28 (MT 01)	05:45 20:10	17:30 (MT 01) 18:19 (MT 01)	05:25 20:35	06:08 (MT 02) 07:26 (MT 02)
13	07:27 16:52	07:00 17:30	06:18 18:04	06:18 18:04	06:25 19:38	17:25 (MT 01) 18:28 (MT 01)	05:44 20:11	17:31 (MT 01) 18:18 (MT 01)	05:25 20:36	06:08 (MT 02) 07:27 (MT 02)
14	07:27 16:53	06:59 17:32	06:16 18:05	06:16 18:05	06:24 19:39	17:25 (MT 01) 18:29 (MT 01)	05:43 20:12	17:32 (MT 01) 18:17 (MT 01)	05:25 20:36	06:08 (MT 02) 07:27 (MT 02)
15	07:26 16:54	06:58 17:33	06:14 18:06	06:14 18:06	06:22 19:40	17:23 (MT 01) 18:29 (MT 01)	05:42 20:13	06:36 (MT 02) 18:16 (MT 01)	05:25 20:37	06:08 (MT 02) 07:28 (MT 02)
16	07:26 16:55	06:56 17:34	06:13 18:07	06:13 18:07	06:21 19:42	17:22 (MT 01) 18:29 (MT 01)	05:41 20:14	06:31 (MT 02) 18:15 (MT 01)	05:25 20:37	06:08 (MT 02) 07:28 (MT 02)
17	07:25 16:56	06:55 17:35	06:11 18:08	06:11 18:08	06:19 19:43	17:22 (MT 01) 18:29 (MT 01)	05:40 20:15	06:28 (MT 02) 18:14 (MT 01)	05:25 20:38	06:08 (MT 02) 07:28 (MT 02)
18	07:25 16:58	06:54 17:37	06:09 18:10	06:09 18:10	06:17 19:44	17:21 (MT 01) 18:29 (MT 01)	05:39 20:16	06:26 (MT 02) 18:14 (MT 01)	05:25 20:38	06:08 (MT 02) 07:28 (MT 02)
19	07:24 16:59	06:52 17:38	06:07 18:11	06:07 18:11	06:16 19:45	17:22 (MT 01) 18:30 (MT 01)	05:38 20:17	06:24 (MT 02) 18:12 (MT 01)	05:25 20:38	06:08 (MT 02) 07:28 (MT 02)
20	07:24 17:00	06:51 17:39	06:06 18:12	06:06 18:12	06:14 19:46	17:21 (MT 01) 18:29 (MT 01)	05:37 20:18	06:22 (MT 02) 18:11 (MT 01)	05:26 20:39	06:08 (MT 02) 07:29 (MT 02)
21	07:23 17:01	06:49 17:40	06:04 18:13	06:04 18:13	06:13 19:47	17:21 (MT 01) 18:30 (MT 01)	05:36 20:19	06:20 (MT 02) 18:09 (MT 01)	05:26 20:39	06:09 (MT 02) 07:30 (MT 02)
22	07:22 17:02	06:48 17:41	06:02 18:14	06:02 18:14	06:11 19:48	17:20 (MT 01) 18:29 (MT 01)	05:35 20:20	06:18 (MT 02) 18:07 (MT 01)	05:26 20:39	06:09 (MT 02) 07:30 (MT 02)
23	07:22 17:04	06:46 17:43	06:01 18:15	06:01 18:15	06:10 19:49	17:21 (MT 01) 18:29 (MT 01)	05:35 20:21	06:18 (MT 02) 18:06 (MT 01)	05:26 20:39	06:09 (MT 02) 07:30 (MT 02)
24	07:21 17:05	06:45 17:44	05:59 18:16	05:59 18:16	06:08 19:50	17:21 (MT 01) 18:30 (MT 01)	05:34 20:22	06:16 (MT 02) 18:03 (MT 01)	05:26 20:39	06:09 (MT 02) 07:29 (MT 02)
25	07:20 17:06	06:43 17:45	05:57 18:17	05:57 18:17	06:07 19:51	17:21 (MT 01) 18:29 (MT 01)	05:33 20:22	06:15 (MT 02) 17:58 (MT 01)	05:27 20:39	06:10 (MT 02) 07:30 (MT 02)
26	07:19 17:07	06:42 17:46	05:56 18:18	05:56 18:18	06:05 19:53	17:21 (MT 01) 18:29 (MT 01)	05:32 20:23	06:15 (MT 02) 07:15 (MT 02)	05:27 20:40	06:10 (MT 02) 07:30 (MT 02)
27	07:19 17:09	06:40 17:48	05:54 18:20	05:54 18:20	06:04 19:54	17:21 (MT 01) 18:28 (MT 01)	05:32 20:24	06:13 (MT 02) 07:16 (MT 02)	05:27 20:40	06:10 (MT 02) 07:30 (MT 02)
28	07:18 17:10	06:39 17:49	06:58 (67) 06:59 (67)	05:52 18:21	06:03 19:55	17:21 (MT 01) 18:28 (MT 01)	05:31 20:25	06:13 (MT 02) 07:17 (MT 02)	05:28 20:40	06:11 (MT 02) 07:30 (MT 02)
29	07:17 17:11			06:50 19:22	06:01 19:56	17:22 (MT 01) 18:28 (MT 01)	05:30 20:26	06:12 (MT 02) 07:18 (MT 02)	05:28 20:40	06:11 (MT 02) 07:30 (MT 02)
30	07:16 17:12			06:49 19:23	06:00 19:57	17:22 (MT 01) 18:27 (MT 01)	05:30 20:27	06:11 (MT 02) 07:18 (MT 02)	05:29 20:39	06:12 (MT 02) 07:31 (MT 02)
31	07:15 17:14			06:47 19:24	17:54 (MT 01) 18:07 (MT 01)		05:29 20:28	06:11 (MT 02) 07:19 (MT 02)		
Potential sun hours	295	296	369	400	450	455				
Total, worst case		1	145	1784	1950	2335				
Sun reduction		0,46	0,44	0,48	0,47	0,54				
Oper. time red.		0,70	0,70	0,70	0,70	0,70				
Wind dir. red.		0,63	0,63	0,61	0,59	0,57				
Total reduction		0,20	0,19	0,21	0,19	0,21				
Total, real		0	28	367	377	499				

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

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

SHADOW - Calendar

Shadow receptor: R5 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

		July		August		September		October		November		December	
1	05:29	06:12 (MT 02)	05:54	17:40 (MT 01)	06:25	17:25 (MT 01)	06:56	06:32	07:07				
	20:39	78	07:30 (MT 02)	20:20	50	18:30 (MT 01)	19:36	61	18:26 (MT 01)	18:44	16:56	16:31	
2	05:30	06:13 (MT 02)	05:55	17:39 (MT 01)	06:26	17:26 (MT 01)	06:58	06:33	07:08				
	20:39	78	07:31 (MT 02)	20:19	52	18:31 (MT 01)	19:34	59	18:25 (MT 01)	18:42	16:55	16:31	
3	05:30	06:13 (MT 02)	05:56	17:38 (MT 01)	06:27	17:26 (MT 01)	06:59	06:34	07:10				
	20:39	77	07:30 (MT 02)	20:18	54	18:32 (MT 01)	19:32	57	18:23 (MT 01)	18:41	10	07:27 (67)	16:54
4	05:31	06:14 (MT 02)	05:57	17:37 (MT 01)	06:29	17:27 (MT 01)	07:00	06:35	07:11				
	20:39	76	07:30 (MT 02)	20:16	55	18:32 (MT 01)	19:31	55	18:22 (MT 01)	18:39	14	07:39 (67)	16:53
5	05:31	06:14 (MT 02)	05:58	17:36 (MT 01)	06:30	17:28 (MT 01)	07:01	06:37	07:12				
	20:39	76	07:30 (MT 02)	20:15	57	18:33 (MT 01)	19:29	52	18:20 (MT 01)	18:37	15	07:39 (67)	16:51
6	05:32	06:15 (MT 02)	05:59	17:35 (MT 01)	06:31	17:29 (MT 01)	07:02	06:38	07:13				
	20:38	75	07:30 (MT 02)	20:14	58	18:33 (MT 01)	19:27	49	18:18 (MT 01)	18:36	17	07:40 (67)	16:50
7	05:32	06:15 (MT 02)	06:00	17:35 (MT 01)	06:32	17:30 (MT 01)	07:03	06:39	07:13				
	20:38	74	07:29 (MT 02)	20:13	59	18:34 (MT 01)	19:26	46	18:16 (MT 01)	18:34	17	07:40 (67)	16:49
8	05:33	06:16 (MT 02)	06:01	17:34 (MT 01)	06:33	17:32 (MT 01)	07:04	06:40	07:14				
	20:38	73	07:29 (MT 02)	20:11	60	18:34 (MT 01)	19:24	42	18:14 (MT 01)	18:32	15	07:39 (67)	16:48
9	05:34	06:17 (MT 02)	06:02	17:33 (MT 01)	06:34	17:34 (MT 01)	07:05	06:42	07:15				
	20:37	72	07:29 (MT 02)	20:10	62	18:35 (MT 01)	19:22	37	18:11 (MT 01)	18:31	14	07:40 (67)	16:47
10	05:34	06:17 (MT 02)	06:03	17:32 (MT 01)	06:35	17:36 (MT 01)	07:06	06:43	07:16				
	20:37	71	07:28 (MT 02)	20:09	63	18:35 (MT 01)	19:20	32	18:08 (MT 01)	18:29	12	07:39 (67)	16:46
11	05:35	06:18 (MT 02)	06:04	17:32 (MT 01)	06:36	17:39 (MT 01)	07:07	06:44	07:17				
	20:37	70	07:28 (MT 02)	20:08	63	18:35 (MT 01)	19:19	26	18:05 (MT 01)	18:27	10	07:38 (67)	16:45
12	05:36	06:19 (MT 02)	06:05	17:31 (MT 01)	06:37	17:44 (MT 01)	07:08	06:45	07:18				
	20:36	69	07:28 (MT 02)	20:06	65	18:36 (MT 01)	19:17	15	17:59 (MT 01)	18:26	7	07:36 (67)	16:44
13	05:37	06:20 (MT 02)	06:06	17:30 (MT 01)	06:38	17:50 (MT 01)	07:10	06:46	07:19				
	20:36	68	07:28 (MT 02)	20:05	66	18:36 (MT 01)	19:15	11	18:24	4	07:34 (67)	16:43	16:30
14	05:37	06:20 (MT 02)	06:07	17:30 (MT 01)	06:39	17:51 (MT 01)	07:11	06:48	07:20				
	20:35	66	07:26 (MT 02)	20:03	66	18:36 (MT 01)	19:14	11	18:23			16:42	16:30
15	05:38	06:21 (MT 02)	06:08	17:29 (MT 01)	06:40	17:52 (MT 01)	07:12	06:49	07:20				
	20:34	65	07:26 (MT 02)	20:02	67	18:36 (MT 01)	19:12	11	18:21			16:41	16:31
16	05:39	06:22 (MT 02)	06:09	17:28 (MT 01)	06:41	17:53 (MT 01)	07:13	06:50	07:21				
	20:34	64	07:26 (MT 02)	20:01	68	18:36 (MT 01)	19:10	11	18:19			16:40	16:31
17	05:40	06:23 (MT 02)	06:10	17:28 (MT 01)	06:42	17:54 (MT 01)	07:14	06:51	07:22				
	20:33	62	07:25 (MT 02)	19:59	68	18:36 (MT 01)	19:08	11	18:18			16:39	16:31
18	05:41	06:25 (MT 02)	06:11	17:27 (MT 01)	06:43	17:55 (MT 01)	07:15	06:52	07:22				
	20:32	59	07:24 (MT 02)	19:58	69	18:36 (MT 01)	19:07	11	18:16			16:39	16:31
19	05:42	06:25 (MT 02)	06:12	17:27 (MT 01)	06:44	17:56 (MT 01)	07:16	06:54	07:23				
	20:32	69	18:11 (MT 01)	19:56	68	18:35 (MT 01)	19:05	11	18:15			16:38	16:32
20	05:42	06:26 (MT 02)	06:13	17:27 (MT 01)	06:45	17:57 (MT 01)	07:17	06:55	07:24				
	20:31	73	18:14 (MT 01)	19:55	68	18:35 (MT 01)	19:03	11	18:13			16:37	16:32
21	05:43	06:28 (MT 02)	06:14	17:26 (MT 01)	06:46	17:58 (MT 01)	07:19	06:56	07:24				
	20:30	75	18:17 (MT 01)	19:53	69	18:35 (MT 01)	19:01	11	18:12			16:36	16:33
22	05:44	06:29 (MT 02)	06:15	17:26 (MT 01)	06:47	17:59 (MT 01)	07:20	06:57	07:25				
	20:29	76	18:19 (MT 01)	19:52	68	18:34 (MT 01)	19:00	11	18:10			16:36	16:33
23	05:45	06:31 (MT 02)	06:16	17:26 (MT 01)	06:48	18:00 (MT 01)	07:21	06:58	07:25				
	20:29	77	18:21 (MT 01)	19:50	68	18:34 (MT 01)	18:58	11	18:09			16:35	16:34
24	05:46	06:33 (MT 02)	06:17	17:26 (MT 01)	06:49	18:01 (MT 01)	07:22	07:00	07:26				
	20:28	75	18:22 (MT 01)	19:49	67	18:33 (MT 01)	18:56	11	18:07			16:34	16:34
25	05:47	06:35 (MT 02)	06:18	17:25 (MT 01)	06:50	18:02 (MT 01)	07:23	07:01	07:26				
	20:27	74	18:24 (MT 01)	19:47	68	18:33 (MT 01)	18:54	11	17:06			16:34	16:35
26	05:48	06:37 (MT 02)	06:19	17:25 (MT 01)	06:51	18:03 (MT 01)	07:25	07:02	07:26				
	20:26	72	18:24 (MT 01)	19:45	67	18:32 (MT 01)	18:53	11	17:04			16:33	16:35
27	05:49	06:40 (MT 02)	06:20	17:25 (MT 01)	06:52	18:04 (MT 01)	07:26	07:03	07:27				
	20:25	68	18:25 (MT 01)	19:44	67	18:32 (MT 01)	18:51	11	17:03			16:33	16:36
28	05:50	06:44 (MT 02)	06:21	17:25 (MT 01)	06:53	18:05 (MT 01)	07:27	07:04	07:27				
	20:24	63	18:26 (MT 01)	19:42	66	18:31 (MT 01)	18:49	11	17:02			16:32	16:37
29	05:51	06:51 (MT 02)	06:22	17:25 (MT 01)	06:54	18:06 (MT 01)	07:28	07:05	07:27				
	20:23	51	18:27 (MT 01)	19:41	65	18:30 (MT 01)	18:48	11	17:00			16:32	16:37
30	05:52	17:42 (MT 01)	06:23	17:26 (MT 01)	06:55	18:07 (MT 01)	07:29	07:06	07:28				
	20:22	46	18:28 (MT 01)	19:39	63	18:29 (MT 01)	18:46	11	16:59			16:32	16:38
31	05:53	17:41 (MT 01)	06:24	17:26 (MT 01)	06:56	18:08 (MT 01)	07:30	07:07	07:28				
	20:21	48	18:29 (MT 01)	19:37	62	18:28 (MT 01)	16:58	11	16:58			16:39	16:39
Potential sun hours	461		429		375		344		296			285	
Total, worst case	2140		1968		531		135						
Sun reduction	0,61		0,67		0,58		0,44						
Oper. time red.	0,70		0,70		0,70		0,70						
Wind dir. red.	0,58		0,61		0,61		0,63						
Total reduction	0,24		0,29		0,25		0,19						
Total, real	522		564		132		26						

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: R52 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	23
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	23
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	22
4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	22
5	07:28 16:43	07:10 17:20	06:31 17:55	06:52 (MT 18) 06:58 (MT 18)	06:39 19:30	05:53 20:02	21
6	07:28 16:44	07:09 17:21	06:29 17:56	06:48 (MT 18) 07:02 (MT 18)	06:37 19:31	05:52 20:04	20
7	07:28 16:45	07:08 17:23	06:28 17:57	06:47 (MT 18) 07:05 (MT 18)	06:35 19:32	05:51 20:05	19
8	07:28 16:46	07:07 17:24	06:26 17:58	06:45 (MT 18) 07:07 (MT 18)	06:34 19:33	05:49 20:06	18
9	07:28 16:47	07:05 17:25	06:24 17:59	06:43 (MT 18) 07:08 (MT 18)	06:32 19:34	05:48 20:07	17
10	07:28 16:48	07:04 17:26	06:23 18:00	06:42 (MT 18) 07:09 (MT 18)	06:30 19:35	05:47 20:08	17
11	07:28 16:49	07:03 17:28	06:21 18:02	06:40 (MT 18) 07:09 (MT 18)	06:29 19:36	05:46 20:09	16
12	07:27 16:51	07:02 17:29	06:19 18:03	06:38 (MT 18) 07:10 (MT 18)	06:27 19:37	05:45 20:10	3
13	07:27 16:52	07:00 17:30	06:18 18:04	06:37 (MT 18) 07:11 (MT 18)	06:25 19:38	05:44 20:11	5
14	07:27 16:53	06:59 17:31	06:16 18:05	06:36 (MT 18) 07:10 (MT 18)	06:24 19:39	05:43 20:12	7
15	07:26 16:54	06:58 17:33	06:14 18:06	06:35 (MT 18) 07:10 (MT 18)	06:22 19:41	05:42 20:13	9
16	07:26 16:55	06:56 17:34	06:13 18:07	06:34 (MT 18) 07:09 (MT 18)	06:21 19:42	05:41 20:14	11
17	07:25 16:56	06:55 17:35	06:11 18:08	06:35 (MT 18) 07:10 (MT 18)	06:19 19:43	05:40 20:15	12
18	07:25 16:57	06:54 17:36	06:09 18:10	06:34 (MT 18) 07:09 (MT 18)	06:17 19:44	05:39 20:16	13
19	07:24 16:59	06:52 17:38	06:07 18:11	06:34 (MT 18) 07:08 (MT 18)	06:16 19:45	05:38 20:17	15
20	07:24 17:00	06:51 17:39	06:06 18:12	06:35 (MT 18) 07:08 (MT 18)	06:14 19:46	05:37 20:18	16
21	07:23 17:01	06:49 17:40	06:04 18:13	06:35 (MT 18) 07:07 (MT 18)	06:13 19:47	05:36 20:19	17
22	07:22 17:02	06:48 17:41	06:02 18:14	06:35 (MT 18) 07:05 (MT 18)	06:11 19:48	05:35 20:20	18
23	07:22 17:03	06:46 17:43	06:01 18:15	06:36 (MT 18) 07:03 (MT 18)	06:10 19:49	05:34 20:21	19
24	07:21 17:05	06:45 17:44	05:59 18:16	06:38 (MT 18) 07:02 (MT 18)	06:08 19:50	05:34 20:22	19
25	07:20 17:06	06:43 17:45	05:57 18:17	06:39 (MT 18) 07:00 (MT 18)	06:07 19:52	05:33 20:23	20
26	07:20 17:07	06:42 17:46	05:56 18:19	06:41 (MT 18) 06:57 (MT 18)	06:05 19:53	05:32 20:23	21
27	07:19 17:08	06:40 17:47	05:54 18:20	06:45 (MT 18) 06:53 (MT 18)	06:04 19:54	05:32 20:24	21
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:25	22
29	07:17 17:11	06:37 19:22	05:50 19:22	06:01 19:56	06:01 20:26	05:30 20:26	22
30	07:16 17:12	06:35 19:23	05:49 19:23	06:00 19:57	06:00 20:27	05:29 20:27	23
31	07:15 17:14	06:33 19:24	05:47 19:24	05:29 20:28	05:29 20:28	05:29 20:28	23
Potential sun hours	295	296	369	400	450	455	
Total, worst case			606		316	458	
Sun reduction			0,44		0,47	0,54	
Oper. time red.			0,70		0,70	0,70	
Wind dir. red.			0,63		0,57	0,57	
Total reduction			0,19		0,18	0,21	
Total, real			118		58	98	

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: R52 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	06:00 (MT 19)	05:53	06:16 (MT 19)	06:25	06:56	07:17 (MT 18)	06:32	07:08			
	20:40	16	06:16 (MT 19)	20:20	2	06:18 (MT 19)	19:36	18:44	32	07:49 (MT 18)	16:56	16:31
2	05:29	06:00 (MT 19)	05:54	06:16 (MT 19)	06:26	06:58	07:18 (MT 18)	06:33	07:09			
	20:39	16	06:16 (MT 19)	20:19	19:34	18:42	30	07:48 (MT 18)	16:55	16:31		
3	05:30	06:00 (MT 19)	05:55	06:17 (MT 19)	06:27	06:59	07:19 (MT 18)	06:34	07:10			
	20:39	17	06:17 (MT 19)	20:18	19:32	18:41	28	07:47 (MT 18)	16:54	16:30		
4	05:30	05:59 (MT 19)	05:56	06:19 (MT 19)	06:28	07:00	07:20 (MT 18)	06:36	07:11			
	20:39	18	06:17 (MT 19)	20:17	19:31	18:39	26	07:46 (MT 18)	16:53	16:30		
5	05:31	05:59 (MT 19)	05:58	06:18 (MT 19)	06:29	07:01	07:21 (MT 18)	06:37	07:12			
	20:39	19	06:18 (MT 19)	20:15	19:29	18:37	23	07:44 (MT 18)	16:51	16:30		
6	05:32	06:00 (MT 19)	05:59	06:19 (MT 19)	06:31	07:02	07:22 (MT 18)	06:38	07:13			
	20:39	19	06:19 (MT 19)	20:14	19:27	18:36	20	07:42 (MT 18)	16:50	16:30		
7	05:32	05:59 (MT 19)	06:00	06:19 (MT 19)	06:32	07:03	07:23 (MT 18)	06:39	07:14			
	20:38	20	06:19 (MT 19)	20:13	19:26	18:34	16	07:39 (MT 18)	16:49	16:30		
8	05:33	05:59 (MT 19)	06:01	06:20 (MT 19)	06:33	07:04	07:24 (MT 18)	06:40	07:15			
	20:38	21	06:20 (MT 19)	20:12	19:24	18:32	12	07:36 (MT 18)	16:48	16:30		
9	05:34	05:59 (MT 19)	06:02	06:21 (MT 19)	06:34	07:05		06:42	07:16			
	20:38	22	06:21 (MT 19)	20:10	19:22	18:31		16:47	16:30			
10	05:34	05:58 (MT 19)	06:03	06:22 (MT 19)	06:35	07:06		06:43	07:16			
	20:37	23	06:21 (MT 19)	20:09	19:21	18:29		16:46	16:30			
11	05:35	05:58 (MT 19)	06:04	06:22 (MT 19)	06:36	07:07		06:44	07:17			
	20:37	23	06:21 (MT 19)	20:08	19:19	18:27		16:45	16:30			
12	05:36	05:59 (MT 19)	06:05	06:23 (MT 19)	06:37	07:08		06:45	07:18			
	20:36	23	06:22 (MT 19)	20:06	19:17	18:26		16:44	16:30			
13	05:36	05:59 (MT 19)	06:06	06:23 (MT 19)	06:38	07:10		06:47	07:19			
	20:36	23	06:22 (MT 19)	20:05	19:15	18:24		16:43	16:30			
14	05:37	06:00 (MT 19)	06:07	06:24 (MT 19)	06:39	07:11		06:48	07:20			
	20:35	22	06:22 (MT 19)	20:04	19:14	18:22		16:42	16:30			
15	05:38	06:01 (MT 19)	06:08	06:23 (MT 19)	06:40	07:12		06:49	07:20			
	20:35	22	06:23 (MT 19)	20:02	19:12	18:21		16:41	16:30			
16	05:39	06:02 (MT 19)	06:09	06:24 (MT 19)	06:41	07:13		06:50	07:21			
	20:34	22	06:24 (MT 19)	20:01	19:10	18:19	4	07:39 (MT 18)	16:40	16:31		
17	05:40	06:03 (MT 19)	06:10	06:25 (MT 19)	06:42	07:14		06:51	07:22			
	20:33	21	06:24 (MT 19)	19:59	19:08	18:18	14	07:44 (MT 18)	16:39	16:31		
18	05:40	06:03 (MT 19)	06:11	06:25 (MT 19)	06:43	07:15		06:53	07:23			
	20:33	20	06:23 (MT 19)	19:58	19:07	18:16	20	07:47 (MT 18)	16:38	16:31		
19	05:41	06:04 (MT 19)	06:12	06:24 (MT 19)	06:44	07:16		06:54	07:23			
	20:32	20	06:24 (MT 19)	19:56	19:05	18:15	24	07:48 (MT 18)	16:38	16:32		
20	05:42	06:05 (MT 19)	06:13	06:25 (MT 19)	06:45	07:18		06:55	07:24			
	20:31	19	06:24 (MT 19)	19:55	19:03	18:13	26	07:49 (MT 18)	16:37	16:32		
21	05:43	06:06 (MT 19)	06:14	06:25 (MT 19)	06:46	07:19		06:56	07:24			
	20:30	18	06:24 (MT 19)	19:53	19:01	18:12	29	07:50 (MT 18)	16:36	16:32		
22	05:44	06:07 (MT 19)	06:15	06:26 (MT 19)	06:47	07:20		06:57	07:25			
	20:30	17	06:24 (MT 19)	19:52	19:00	18:10	31	07:51 (MT 18)	16:35	16:33		
23	05:45	06:08 (MT 19)	06:16	06:26 (MT 19)	06:48	07:21		06:59	07:25			
	20:29	16	06:24 (MT 19)	19:50	18:58	18:09	32	07:51 (MT 18)	16:35	16:33		
24	05:46	06:09 (MT 19)	06:17	06:27 (MT 19)	06:49	07:22		07:00	07:26			
	20:28	15	06:24 (MT 19)	19:49	18:56	18:07	33	07:51 (MT 18)	16:34	16:34		
25	05:47	06:09 (MT 19)	06:18	06:27 (MT 19)	06:50	07:23		07:01	07:26			
	20:27	14	06:23 (MT 19)	19:47	18:54	17:06	34	07:51 (MT 18)	16:34	16:35		
26	05:48	06:10 (MT 19)	06:19	06:28 (MT 19)	06:51	07:24		07:02	07:27			
	20:26	13	06:23 (MT 19)	19:46	18:53	17:04	35	07:52 (MT 18)	16:33	16:35		
27	05:49	06:11 (MT 19)	06:20	06:28 (MT 19)	06:52	07:25		07:03	07:27			
	20:25	12	06:23 (MT 19)	19:44	18:51	17:03	35	07:52 (MT 18)	16:33	16:36		
28	05:50	06:12 (MT 19)	06:21	06:29 (MT 19)	06:53	07:26		07:04	07:27			
	20:24	10	06:22 (MT 19)	19:42	18:49	17:02	35	07:51 (MT 18)	16:32	16:37		
29	05:51	06:13 (MT 19)	06:22	06:30 (MT 19)	06:54	07:27		07:05	07:28			
	20:23	8	06:21 (MT 19)	19:41	18:48	17:00	35	07:51 (MT 18)	16:32	16:37		
30	05:52	06:14 (MT 19)	06:23	06:31 (MT 19)	06:55	07:28		07:07	07:28			
	20:22	7	06:21 (MT 19)	19:39	18:46	16:59	34	07:50 (MT 18)	16:31	16:38		
31	05:53	06:15 (MT 19)	06:24	06:32 (MT 19)				06:31	07:28			
	20:21	4	06:19 (MT 19)	19:37				16:58	16:39			
Potential sun hours	461		429		375		344		296		285	
Total, worst case	540		2		421		187					
Sun reduction	0,61		0,67		0,58		0,44					
Oper. time red.	0,70		0,70		0,70		0,70					
Wind dir. red.	0,57		0,57		0,63		0,63					
Total reduction	0,24		0,26		0,26		0,19					
Total, real	130		1		108		36					

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: R53 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	07:06 (MT 18) 08:01 (MT 18)	06:45 19:25	07:04 (MT 15) 19:58
2	07:28 16:41	07:13 17:16	06:36 17:51	07:06 (MT 18) 08:02 (MT 18)	06:44 19:26	07:02 (MT 15) 19:59
3	07:28 16:42	07:12 17:17	06:34 17:52	07:05 (MT 18) 08:02 (MT 18)	06:42 19:27	07:01 (MT 15) 20:00
4	07:28 16:42	07:11 17:19	06:32 17:53	07:05 (MT 18) 08:03 (MT 18)	06:40 19:28	06:59 (MT 15) 20:01
5	07:28 16:43	07:10 17:20	06:31 17:55	07:04 (MT 18) 08:02 (MT 18)	06:39 19:30	06:57 (MT 15) 20:02
6	07:28 16:44	07:09 17:21	06:29 17:56	07:03 (MT 18) 08:02 (MT 18)	06:37 19:31	06:56 (MT 15) 20:03
7	07:28 16:45	07:08 17:22	06:28 17:57	07:03 (MT 18) 08:03 (MT 18)	06:35 19:32	06:54 (MT 15) 20:05
8	07:28 16:46	07:07 17:24	06:26 17:58	07:02 (MT 18) 08:02 (MT 18)	06:33 19:33	06:53 (MT 15) 20:06
9	07:28 16:47	07:05 17:25	06:24 17:59	07:01 (MT 18) 08:02 (MT 18)	06:32 19:34	06:54 (MT 15) 20:07
10	07:28 16:48	07:04 17:26	06:23 18:00	07:02 (MT 18) 08:02 (MT 18)	06:30 19:35	06:54 (MT 15) 20:08
11	07:28 16:49	07:03 17:28	06:21 18:02	07:01 (MT 18) 08:01 (MT 18)	06:29 19:36	06:53 (MT 15) 20:09
12	07:27 16:51	07:02 17:29	06:19 18:03	07:01 (MT 18) 08:01 (MT 18)	06:27 19:37	06:54 (MT 15) 20:10
13	07:27 16:52	07:00 17:30	06:18 18:04	07:02 (MT 18) 08:01 (MT 18)	06:25 19:38	06:55 (MT 15) 20:11
14	07:27 16:53	06:59 17:31	06:16 18:05	07:01 (MT 18) 08:00 (MT 18)	06:24 19:39	06:57 (MT 15) 20:12
15	07:26 16:54	06:58 17:33	06:14 18:06	07:01 (MT 18) 07:59 (MT 18)	06:22 19:41	06:58 (MT 15) 20:13
16	07:26 16:55	06:56 17:34	06:13 18:07	07:01 (MT 18) 07:57 (MT 18)	06:21 19:42	05:41 20:14
17	07:25 16:56	06:55 17:35	06:11 18:08	07:02 (MT 18) 07:57 (MT 18)	06:19 19:43	05:40 20:15
18	07:25 16:57	06:54 17:36	06:09 18:10	07:02 (MT 18) 07:56 (MT 18)	06:17 19:44	05:39 20:16
19	07:24 16:59	06:52 17:38	06:07 18:11	07:02 (MT 18) 07:54 (MT 18)	06:16 19:45	05:38 20:17
20	07:24 17:00	06:51 17:39	06:06 18:12	07:04 (MT 18) 07:54 (MT 18)	06:14 19:46	05:37 20:18
21	07:23 17:01	06:49 17:40	06:04 18:13	07:04 (MT 18) 07:52 (MT 18)	06:13 19:47	05:36 20:19
22	07:22 17:02	06:48 17:41	06:02 18:14	07:05 (MT 18) 07:50 (MT 18)	06:11 19:48	05:35 20:20
23	07:22 17:03	06:46 17:43	06:01 18:15	07:06 (MT 18) 07:48 (MT 18)	06:10 19:49	05:34 20:21
24	07:21 17:05	06:45 17:44	05:59 18:16	07:08 (MT 18) 07:46 (MT 18)	06:08 19:50	05:34 20:22
25	07:20 17:06	06:43 17:45	05:57 18:17	07:09 (MT 18) 07:44 (MT 18)	06:07 19:52	05:33 20:23
26	07:20 17:07	06:42 17:46	05:55 18:18	07:10 (MT 18) 07:41 (MT 18)	06:05 19:53	05:32 20:23
27	07:19 17:08	06:40 17:47	05:54 18:20	07:13 (MT 18) 07:37 (MT 18)	06:04 19:54	05:32 20:24
28	07:18 17:10	06:39 17:49	05:52 18:21	07:17 (MT 18) 07:33 (MT 18)	06:02 19:55	05:31 20:25
29	07:17 17:11		06:50 19:22		06:01 19:56	05:30 20:26
30	07:16 17:12		06:49 19:23		06:00 19:57	05:30 20:27
31	07:15 17:13		06:47 19:24			05:29 20:28
Potential sun hours	295	296	369	400	450	455
Total, worst case		416	1426	272		
Sun reduction		0,46	0,44	0,48		
Oper. time red.		0,70	0,70	0,70		
Wind dir. red.		0,64	0,64	0,60		
Total reduction		0,20	0,20	0,20		
Total, real		85	281	55		

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: R53 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December		
1	05:29	05:53	06:25	06:52 (MT 15)	06:56	07:41 (MT 18)	06:32	07:08
	20:40	20:20	19:36	22 07:14 (MT 15)	18:44	59 08:40 (MT 18)	16:56	16:31
2	05:29	05:54	06:26	06:51 (MT 15)	06:58	07:40 (MT 18)	06:33	07:09
	20:39	20:19	19:34	23 07:14 (MT 15)	18:42	60 08:40 (MT 18)	16:55	16:31
3	05:30	05:55	06:27	06:51 (MT 15)	06:59	07:39 (MT 18)	06:34	07:10
	20:39	20:18	19:32	23 07:14 (MT 15)	18:41	61 08:40 (MT 18)	16:54	16:30
4	05:30	05:56	06:28	06:50 (MT 15)	07:00	07:39 (MT 18)	06:35	07:11
	20:39	20:16	19:31	24 07:14 (MT 15)	18:39	60 08:39 (MT 18)	16:53	16:30
5	05:31	05:57	06:29	06:50 (MT 15)	07:01	07:39 (MT 18)	06:37	07:12
	20:39	20:15	19:29	23 07:13 (MT 15)	18:37	60 08:39 (MT 18)	16:51	16:30
6	05:32	05:58	06:30	06:51 (MT 15)	07:02	07:38 (MT 18)	06:38	07:13
	20:39	20:14	19:27	22 07:13 (MT 15)	18:36	61 08:39 (MT 18)	16:50	16:30
7	05:32	06:00	06:32	06:52 (MT 15)	07:03	07:38 (MT 18)	06:39	07:14
	20:38	20:13	19:26	20 07:12 (MT 15)	18:34	60 08:38 (MT 18)	16:49	16:30
8	05:33	06:01	06:33	06:53 (MT 15)	07:04	07:38 (MT 18)	06:40	07:15
	20:38	20:12	19:24	18 07:11 (MT 15)	18:32	59 08:37 (MT 18)	16:48	16:30
9	05:34	06:02	06:34	06:54 (MT 15)	07:05	07:39 (MT 18)	06:42	07:16
	20:38	20:10	19:22	15 07:09 (MT 15)	18:31	59 08:38 (MT 18)	16:47	16:30
10	05:34	06:03	06:35	06:55 (MT 15)	07:06	07:39 (MT 18)	06:43	07:16
	20:37	20:09	19:21	12 07:07 (MT 15)	18:29	58 08:37 (MT 18)	16:46	16:30
11	05:35	06:04	06:36	06:56 (MT 15)	07:07	07:39 (MT 18)	06:44	07:17
	20:37	20:08	19:19	9 07:05 (MT 15)	18:27	57 08:36 (MT 18)	16:45	16:30
12	05:36	06:05	06:37	07:08	07:08	07:40 (MT 18)	06:45	07:18
	20:36	20:06	19:17		18:26	55 08:35 (MT 18)	16:44	16:30
13	05:36	06:06	06:38	07:10	07:10	07:40 (MT 18)	06:47	07:19
	20:36	20:05	19:15		18:24	54 08:34 (MT 18)	16:43	16:30
14	05:37	06:07	06:39	07:11	07:11	07:40 (MT 18)	06:48	07:20
	20:35	20:04	19:14		18:22	53 08:33 (MT 18)	16:42	16:30
15	05:38	06:08	06:40	08:07 (MT 18)	07:12	07:42 (MT 18)	06:49	07:20
	20:35	20:02	19:12	15 08:22 (MT 18)	18:21	50 08:32 (MT 18)	16:41	16:30
16	05:39	06:09	06:41	08:03 (MT 18)	07:13	07:43 (MT 18)	06:50	07:21
	20:34	20:01	19:10	23 08:26 (MT 18)	18:19	48 08:31 (MT 18)	16:40	16:31
17	05:40	06:10	06:42	07:59 (MT 18)	07:14	07:43 (MT 18)	06:51	07:22
	20:33	19:59	19:08	29 08:28 (MT 18)	18:18	46 08:29 (MT 18)	16:39	16:31
18	05:40	06:11	06:43	07:57 (MT 18)	07:15	07:44 (MT 18)	06:53	07:23
	20:33	19:58	19:07	34 08:31 (MT 18)	18:16	43 08:27 (MT 18)	16:38	16:31
19	05:41	06:12	06:44	07:54 (MT 18)	07:16	07:46 (MT 18)	06:54	07:23
	20:32	19:56	19:05	38 08:32 (MT 18)	18:15	39 08:25 (MT 18)	16:38	16:32
20	05:42	06:13	06:45	07:52 (MT 18)	07:18	07:48 (MT 18)	06:55	07:24
	20:31	19:55	19:03	42 08:34 (MT 18)	18:13	36 08:24 (MT 18)	16:37	16:32
21	05:43	06:14	06:46	07:51 (MT 18)	07:19	07:50 (MT 18)	06:56	07:24
	20:30	19:53	19:01	44 08:35 (MT 18)	18:12	32 08:22 (MT 18)	16:36	16:32
22	05:44	06:15	06:47	07:49 (MT 18)	07:20	07:52 (MT 18)	06:57	07:25
	20:30	19:52	19:00	47 08:36 (MT 18)	18:10	27 08:19 (MT 18)	16:35	16:33
23	05:45	06:16	06:48	07:47 (MT 18)	07:21	07:55 (MT 18)	06:59	07:25
	20:29	19:50	18:58	50 08:37 (MT 18)	18:09	20 08:15 (MT 18)	16:35	16:33
24	05:46	06:17	06:49	07:46 (MT 18)	07:22	08:01 (MT 18)	07:00	07:26
	20:28	19:49	18:56	51 08:37 (MT 18)	18:07	7 08:08 (MT 18)	16:34	16:34
25	05:47	06:18	06:50	07:45 (MT 18)	06:23	07:01	07:01	07:26
	20:27	19:47	18:54	53 08:38 (MT 18)	17:06		16:34	16:35
26	05:48	06:19	06:51	07:44 (MT 18)	06:25		07:02	07:27
	20:26	19:45	18:53	54 08:38 (MT 18)	17:04		16:33	16:35
27	05:49	06:20	06:52	07:44 (MT 18)	06:26		07:03	07:27
	20:25	19:44	18:51	56 08:40 (MT 18)	17:03		16:33	16:36
28	05:50	06:21	06:53	07:43 (MT 18)	06:27		07:04	07:27
	20:24	19:42	18:49	57 08:40 (MT 18)	17:02		16:32	16:36
29	05:51	06:22	06:54	07:42 (MT 18)	06:28		07:05	07:28
	20:23	19:41	18:47	58 08:40 (MT 18)	17:00		16:32	16:37
30	05:51	06:23	06:55 (MT 15)	06:55	07:41 (MT 18)	06:29	07:07	07:28
	20:22	19:39	18:46	59 08:40 (MT 18)	16:59		16:31	16:38
31	05:52	06:24	06:53 (MT 15)		06:31			07:28
	20:21	19:37	20 07:13 (MT 15)		16:58			16:39
Potential sun hours	461	429	375	344	296	285		
Total, worst case			65	921	1164			
Sun reduction			0,67	0,58	0,44			
Oper. time red.			0,70	0,70	0,70			
Wind dir. red.			0,60	0,63	0,64			
Total reduction			0,28	0,26	0,20			
Total, real			18	236	227			

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: R56 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28	07:14	07:35 (MT 18)	06:37	06:45	07:04 (MT 19)
	16:40	17:15	17:48 (MT 18)	17:50	19:25	09:01 (MT 17)
2	07:28	07:13	07:33 (MT 18)	06:36	06:44	07:02 (MT 19)
	16:41	17:16	17:48 (MT 18)	17:51	19:26	09:00 (MT 17)
3	07:28	07:12	07:32 (MT 18)	06:34	06:42	07:01 (MT 19)
	16:42	17:17	17:49 (MT 18)	17:52	19:27	08:59 (MT 17)
4	07:29	07:11	07:31 (MT 18)	06:32	06:40	06:59 (MT 19)
	16:42	17:19	17:50 (MT 18)	17:53	7 07:41 (MT 17)	19:28
5	07:29	07:10	07:30 (MT 18)	06:31	07:26 (MT 17)	06:39
	16:43	17:20	17:50 (MT 18)	17:55	22 07:48 (MT 17)	19:30
6	07:28	07:09	07:29 (MT 18)	06:29	07:22 (MT 17)	06:37
	16:44	17:21	17:51 (MT 18)	17:56	29 07:51 (MT 17)	19:31
7	07:28	07:08	07:28 (MT 18)	06:28	07:19 (MT 17)	06:35
	16:45	17:23	17:51 (MT 18)	17:57	36 07:55 (MT 17)	19:32
8	07:28	07:07	07:27 (MT 18)	06:26	07:16 (MT 17)	06:34
	16:46	17:24	17:52 (MT 18)	17:58	41 07:57 (MT 17)	19:33
9	07:28	07:05	07:26 (MT 18)	06:24	07:14 (MT 17)	06:32
	16:47	17:25	17:51 (MT 18)	17:59	44 07:58 (MT 17)	19:34
10	07:28	07:04	07:26 (MT 18)	06:23	07:12 (MT 17)	06:30
	16:48	17:26	17:51 (MT 18)	18:00	48 08:00 (MT 17)	19:35
11	07:28	07:03	07:27 (MT 18)	06:21	07:10 (MT 17)	06:29
	16:49	17:28	17:51 (MT 18)	18:02	51 08:01 (MT 17)	19:36
12	07:27	07:02	07:27 (MT 18)	06:19	07:08 (MT 17)	06:27
	16:51	17:29	17:49 (MT 18)	18:03	54 08:02 (MT 17)	19:37
13	07:27	07:00	07:28 (MT 18)	06:18	07:07 (MT 17)	06:25
	16:52	17:30	17:49 (MT 18)	18:04	57 08:04 (MT 17)	19:38
14	07:27	06:59	07:30 (MT 18)	06:16	07:06 (MT 17)	06:24
	16:53	17:31	17:48 (MT 18)	18:05	58 08:04 (MT 17)	19:39
15	07:26	06:58	07:31 (MT 18)	06:14	07:04 (MT 17)	06:22
	16:54	17:33	17:46 (MT 18)	18:06	61 08:05 (MT 17)	19:41
16	07:26	06:56	07:33 (MT 18)	06:13	07:02 (MT 17)	06:21
	16:55	17:34	17:44 (MT 18)	18:07	63 08:05 (MT 17)	19:42
17	07:25	06:55	07:34 (MT 18)	06:11	07:02 (MT 17)	06:19
	16:56	17:35	17:45 (MT 18)	18:08	64 08:06 (MT 17)	19:43
18	07:25	06:54	07:35 (MT 18)	06:09	07:01 (MT 17)	06:17
	16:57	17:36	17:46 (MT 18)	18:10	65 08:06 (MT 17)	19:44
19	07:24	06:52	07:36 (MT 18)	06:08	07:00 (MT 17)	06:16
	16:59	17:38	17:47 (MT 18)	18:11	66 08:06 (MT 17)	19:45
20	07:24	06:51	07:37 (MT 18)	06:06	07:00 (MT 17)	06:14
	17:00	17:39	17:48 (MT 18)	18:12	67 08:07 (MT 17)	19:46
21	07:23	06:49	07:38 (MT 18)	06:04	06:59 (MT 17)	06:13
	17:01	17:40	17:49 (MT 18)	18:13	67 08:06 (MT 17)	19:47
22	07:23	06:48	07:39 (MT 18)	06:02	06:58 (MT 17)	06:11
	17:02	17:41	17:50 (MT 18)	18:14	68 08:06 (MT 17)	19:48
23	07:22	06:46	07:40 (MT 18)	06:01	06:57 (MT 17)	06:10
	17:03	17:43	17:51 (MT 18)	18:15	69 08:06 (MT 17)	19:49
24	07:21	06:45	07:41 (MT 18)	05:59	06:57 (MT 17)	06:08
	17:05	17:44	17:52 (MT 18)	18:16	69 08:06 (MT 17)	19:50
25	07:20	06:43	07:42 (MT 18)	05:57	06:56 (MT 17)	06:07
	17:06	17:45	17:53 (MT 18)	18:17	69 08:05 (MT 17)	19:52
26	07:20	06:42	07:43 (MT 18)	05:56	06:56 (MT 17)	06:05
	17:07	17:46	17:54 (MT 18)	18:19	69 08:05 (MT 17)	19:53
27	07:19	06:40	07:44 (MT 18)	05:54	06:56 (MT 17)	06:04
	17:08	17:48	17:55 (MT 18)	18:20	69 08:05 (MT 17)	19:54
28	07:18	06:39	07:45 (MT 18)	05:52	06:55 (MT 17)	06:03
	17:10	17:49	17:56 (MT 18)	18:21	69 08:04 (MT 17)	19:55
29	07:17	07:38 (MT 18)	07:46 (MT 18)	06:50	07:09 (MT 19)	06:01
	17:11	4 07:42 (MT 18)	17:57 (MT 18)	19:22	70 09:03 (MT 17)	19:56
30	07:16	07:37 (MT 18)	07:47 (MT 18)	06:49	07:07 (MT 19)	06:00
	17:12	7 07:44 (MT 18)	17:58 (MT 18)	19:23	72 09:02 (MT 17)	19:57
31	07:15	07:36 (MT 18)	07:48 (MT 18)	06:47	07:06 (MT 19)	05:59
	17:14	10 07:46 (MT 18)	17:59 (MT 18)	19:24	75 09:02 (MT 17)	20:28
Potential sun hours	295	296	369	400	450	455
Total, worst case	21	315	1599	995		
Sun reduction	0,44	0,46	0,44	0,48		
Oper. time red.	0,70	0,70	0,70	0,70		
Wind dir. red.	0,66	0,66	0,63	0,63		
Total reduction	0,21	0,21	0,19	0,21		
Total, real	4	67	312	210		

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: R56 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	20:40	05:53	20:20	06:25	06:58 (MT 19)	06:56	07:47 (MT 17)	06:32	06:56 (MT 18)	07:08	
					19:36	08:46 (MT 17)	18:44	55	08:42 (MT 17)	16:56	07:21 (MT 18)	16:31
2	05:29	20:40	05:54	20:19	06:26	06:54 (MT 19)	06:58	53	07:48 (MT 17)	06:33	06:56 (MT 18)	07:09
					19:34	08:47 (MT 17)	18:42	53	08:41 (MT 17)	16:55	07:21 (MT 18)	16:31
3	05:30	20:39	05:55	20:18	06:27	06:51 (MT 19)	06:59	50	07:49 (MT 17)	06:34	06:56 (MT 18)	07:10
					19:32	08:48 (MT 17)	18:41	50	08:39 (MT 17)	16:54	07:20 (MT 18)	16:30
4	05:30	20:39	05:57	20:17	06:28	06:50 (MT 19)	07:00	47	07:50 (MT 17)	06:36	06:58 (MT 18)	07:11
					19:31	08:49 (MT 17)	18:39	47	08:37 (MT 17)	16:53	07:21 (MT 18)	16:30
5	05:31	20:39	05:58	20:15	06:29	06:50 (MT 19)	07:01	42	07:52 (MT 17)	06:37	06:59 (MT 18)	07:12
					19:29	08:50 (MT 17)	18:37	42	08:34 (MT 17)	16:51	07:21 (MT 18)	16:30
6	05:32	20:39	05:59	20:14	06:31	06:51 (MT 19)	07:02	38	07:54 (MT 17)	06:38	07:00 (MT 18)	07:13
					19:27	08:51 (MT 17)	18:36	38	08:32 (MT 17)	16:50	07:20 (MT 18)	16:30
7	05:32	20:38	06:00	20:13	06:32	06:52 (MT 19)	07:03	33	07:56 (MT 17)	06:39	07:02 (MT 18)	07:14
					19:26	08:51 (MT 17)	18:34	33	08:29 (MT 17)	16:49	07:20 (MT 18)	16:30
8	05:33	20:38	06:01	20:12	06:33	06:53 (MT 19)	07:04	26	08:00 (MT 17)	06:40	07:03 (MT 18)	07:15
					19:24	08:52 (MT 17)	18:32	26	08:26 (MT 17)	16:48	07:20 (MT 18)	16:30
9	05:34	20:38	06:02	20:10	06:34	06:54 (MT 19)	07:05	17	08:04 (MT 17)	06:42	07:04 (MT 18)	07:16
					19:22	08:52 (MT 17)	18:31	17	08:21 (MT 17)	16:47	07:19 (MT 18)	16:30
10	05:34	20:37	06:03	20:09	06:35	06:55 (MT 19)	07:06			06:43	07:06 (MT 18)	07:16
					19:21	08:53 (MT 17)	18:29			16:46	07:18 (MT 18)	16:30
11	05:35	20:37	06:04	20:08	06:36	06:56 (MT 19)	07:07			06:44	07:07 (MT 18)	07:17
					19:19	08:53 (MT 17)	18:27			16:45	07:17 (MT 18)	16:30
12	05:36	20:36	06:05	20:06	06:37	06:57 (MT 19)	07:08			06:45	07:08 (MT 18)	07:18
					19:17	08:53 (MT 17)	18:26			16:44	07:15 (MT 18)	16:30
13	05:36	20:36	06:06	20:05	06:38	06:58 (MT 19)	07:10			06:47	07:10 (MT 18)	07:19
					19:15	08:53 (MT 17)	18:24			16:43	07:14 (MT 18)	16:30
14	05:37	20:35	06:07	20:04	06:39	06:59 (MT 19)	07:11			06:48		07:20
					19:14	08:53 (MT 17)	18:22			16:42		16:30
15	05:38	20:35	06:08	20:02	06:40	07:45 (MT 17)	07:12			06:49		07:20
					19:12	08:53 (MT 17)	18:21			16:41		16:30
16	05:39	20:34	06:09	20:01	06:41	07:44 (MT 17)	07:13			06:50		07:21
					19:10	08:53 (MT 17)	18:19			16:40		16:31
17	05:40	20:33	06:10	19:59	06:42	07:44 (MT 17)	07:14			06:51		07:22
					19:08	08:53 (MT 17)	18:18			16:39		16:31
18	05:41	20:33	06:11	19:58	06:43	07:44 (MT 17)	07:15			06:53		07:23
					19:07	08:53 (MT 17)	18:16			16:38		16:31
19	05:41	20:32	06:12	19:56	06:44	07:43 (MT 17)	07:16			06:54		07:23
					19:05	08:52 (MT 17)	18:15			16:38		16:32
20	05:42	20:31	06:13	19:55	06:45	07:43 (MT 17)	07:18			06:55		07:24
					19:03	08:52 (MT 17)	18:13			16:37		16:32
21	05:43	20:30	06:14	19:53	06:46	07:43 (MT 17)	07:19			06:56		07:24
					19:01	08:52 (MT 17)	18:12			16:36		16:32
22	05:44	20:30	06:15	19:52	06:47	07:43 (MT 17)	07:20			06:57		07:25
					19:00	08:51 (MT 17)	18:10			16:35		16:33
23	05:45	20:29	06:16	19:50	06:48	07:43 (MT 17)	07:21			06:59		07:25
					18:58	08:50 (MT 17)	18:09			16:35		16:33
24	05:46	20:28	06:17	19:49	06:49	07:43 (MT 17)	07:22			07:00		07:26
					18:56	08:50 (MT 17)	18:07			16:34		16:34
25	05:47	20:27	06:18	19:47	06:50	07:43 (MT 17)	06:23			06:56		07:26
					18:54	08:49 (MT 17)	17:06			16:34		16:35
26	05:48	20:26	06:19	19:46	06:51	07:44 (MT 17)	06:25			07:02 (MT 18)		07:27
					18:53	08:49 (MT 17)	17:04			16:33		16:35
27	05:49	20:25	06:20	19:44	06:52	07:45 (MT 17)	06:26			07:00 (MT 18)		07:27
					18:51	08:48 (MT 17)	17:03			16:33		16:36
28	05:50	20:24	06:21	19:42	06:53	07:45 (MT 17)	06:27			06:59 (MT 18)		07:27
					18:49	08:47 (MT 17)	17:02			16:32		16:37
29	05:51	20:23	06:22	19:41	06:54	07:46 (MT 17)	06:28			06:58 (MT 18)		07:28
					18:48	08:45 (MT 17)	17:00			16:32		16:37
30	05:52	20:22	06:23	19:39	06:55	07:46 (MT 17)	06:29			06:57 (MT 18)		07:28
					18:46	08:44 (MT 17)	16:59			16:31		16:38
31	05:53	20:21	06:24	19:37	06:56	08:00 (MT 17)				06:56 (MT 18)		07:28
					18:45 (MT 17)		16:58			07:20 (MT 18)		16:39
Potential sun hours	461	429			375		344		296			285
Total, worst case			218		2060		480		222			
Sun reduction			0,67		0,58		0,44		0,41			
Oper. time red.			0,70		0,70		0,70		0,70			
Wind dir. red.			0,63		0,63		0,64		0,66			
Total reduction			0,30		0,26		0,20		0,19			
Total, real			64		526		94		42			

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: R57 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	07:39 (MT 18) 08:02 (MT 18)	06:37 17:50	07:37 (MT 17) 08:40 (MT 17)	06:45 19:25
2	07:28 16:41	07:13 17:16	07:38 (MT 18) 08:00 (MT 18)	06:36 17:51	07:37 (MT 17) 08:40 (MT 17)	06:44 19:26
3	07:28 16:42	07:12 17:17	07:39 (MT 18) 08:00 (MT 18)	06:34 17:52	07:37 (MT 17) 08:39 (MT 17)	06:42 19:27
4	07:29 16:42	07:11 17:19	07:40 (MT 18) 07:59 (MT 18)	06:32 17:53	07:37 (MT 17) 08:39 (MT 17)	06:40 19:28
5	07:29 16:43	07:10 17:20	07:42 (MT 18) 07:58 (MT 18)	06:31 17:55	07:37 (MT 17) 08:38 (MT 17)	06:39 19:30
6	07:28 16:44	07:09 17:21	07:44 (MT 18) 07:57 (MT 18)	06:29 17:56	07:37 (MT 17) 08:37 (MT 17)	06:37 19:31
7	07:28 16:45	07:08 17:23	07:47 (MT 18) 08:19 (MT 17)	06:28 17:57	07:38 (MT 17) 08:37 (MT 17)	06:35 19:32
8	07:28 16:46	07:07 17:24	07:58 (MT 17) 08:23 (MT 17)	06:26 17:58	07:38 (MT 17) 08:35 (MT 17)	06:34 19:33
9	07:28 16:47	07:05 17:25	07:55 (MT 17) 08:25 (MT 17)	06:24 17:59	07:38 (MT 17) 08:34 (MT 17)	06:32 19:34
10	07:28 16:48	07:04 17:26	07:53 (MT 17) 08:28 (MT 17)	06:23 18:00	07:39 (MT 17) 08:33 (MT 17)	06:30 19:35
11	07:28 16:49	07:03 17:28	07:51 (MT 17) 08:30 (MT 17)	06:21 18:02	07:39 (MT 17) 08:32 (MT 17)	06:29 19:36
12	07:27 16:51	07:02 17:29	07:49 (MT 17) 08:31 (MT 17)	06:19 18:03	07:40 (MT 17) 08:30 (MT 17)	06:27 19:37
13	07:27 16:52	07:00 17:30	07:48 (MT 17) 08:33 (MT 17)	06:18 18:04	07:41 (MT 17) 08:29 (MT 17)	06:25 19:38
14	07:27 16:53	06:59 17:31	07:47 (MT 17) 08:35 (MT 17)	06:16 18:05	07:42 (MT 17) 08:27 (MT 17)	06:24 19:39
15	07:26 16:54	06:58 17:33	07:45 (MT 17) 08:35 (MT 17)	06:14 18:06	07:43 (MT 17) 08:24 (MT 17)	06:22 19:41
16	07:26 16:55	06:56 17:34	07:44 (MT 17) 08:37 (MT 17)	06:13 18:07	07:44 (MT 17) 08:22 (MT 17)	06:21 19:42
17	07:25 16:56	07:47 (MT 18) 07:50 (MT 18)	06:55 17:35	06:11 18:08	07:47 (MT 17) 08:20 (MT 17)	06:19 19:43
18	07:25 16:57	07:46 (MT 18) 07:52 (MT 18)	06:54 17:36	06:09 18:10	07:48 (MT 17) 08:17 (MT 17)	06:17 19:44
19	07:24 16:59	07:46 (MT 18) 07:54 (MT 18)	06:52 17:38	06:08 18:11	07:51 (MT 17) 08:13 (MT 17)	06:16 19:45
20	07:24 17:00	07:45 (MT 18) 07:55 (MT 18)	06:51 17:39	06:06 18:12	07:57 (MT 17) 08:07 (MT 17)	06:14 19:46
21	07:23 17:01	07:44 (MT 18) 07:56 (MT 18)	06:49 17:40	06:04 18:13	06:23 (MT 19) 06:27 (MT 19)	06:13 19:47
22	07:23 17:02	07:44 (MT 18) 07:58 (MT 18)	06:48 17:41	06:02 18:14	06:21 (MT 19) 06:28 (MT 19)	06:11 19:48
23	07:22 17:03	07:43 (MT 18) 07:59 (MT 18)	06:46 17:43	06:01 18:15	06:19 (MT 19) 06:28 (MT 19)	06:10 19:49
24	07:21 17:05	07:42 (MT 18) 07:59 (MT 18)	06:45 17:44	05:59 18:16	06:18 (MT 19) 06:29 (MT 19)	06:08 19:50
25	07:20 17:06	07:41 (MT 18) 08:00 (MT 18)	06:43 17:45	05:57 18:17	06:16 (MT 19) 06:29 (MT 19)	06:07 19:52
26	07:20 17:07	07:40 (MT 18) 08:00 (MT 18)	06:42 17:46	05:56 18:19	06:14 (MT 19) 06:28 (MT 19)	06:05 19:53
27	07:19 17:08	07:39 (MT 18) 08:00 (MT 18)	06:40 17:48	05:54 18:20	06:13 (MT 19) 06:29 (MT 19)	06:04 19:54
28	07:18 17:10	07:39 (MT 18) 08:02 (MT 18)	06:39 17:49	05:52 18:21	06:11 (MT 19) 06:28 (MT 19)	06:03 19:55
29	07:17 17:11	07:38 (MT 18) 08:02 (MT 18)		06:50 19:22	07:09 (MT 19) 07:27 (MT 19)	06:01 19:56
30	07:16 17:12	07:38 (MT 18) 08:02 (MT 18)		06:49 19:23	07:07 (MT 19) 07:25 (MT 19)	06:00 19:57
31	07:15 17:14	07:38 (MT 18) 08:02 (MT 18)		06:47 19:24	07:09 (MT 19) 07:24 (MT 19)	05:59 19:58
Potential sun hours	295	296	369	400	450	455
Total, worst case	241	1227	1108	15		811
Sun reduction	0,44	0,46	0,44	0,48		0,54
Oper. time red.	0,70	0,70	0,70	0,70		0,70
Wind dir. red.	0,67	0,66	0,66	0,62		0,56
Total reduction	0,21	0,21	0,20	0,21		0,21
Total, real	50	262	226	3		174

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

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

Shadow receptor: R57 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

July		August		September		October		November		December	
1	05:29	06:11 (MT 16)	05:53	06:25		06:56	08:20 (MT 17)	06:32	07:23 (MT 17)	07:08	
	20:40	29 06:40 (MT 16)	20:20	19:36		18:44	49 09:09 (MT 17)	16:56	34 07:57 (MT 17)	16:31	
2	05:29	06:11 (MT 16)	05:54	06:26		06:58	08:18 (MT 17)	06:33	07:25 (MT 17)	07:09	
	20:40	28 06:39 (MT 16)	20:19	19:34		18:42	52 09:10 (MT 17)	16:55	30 07:55 (MT 17)	16:31	
3	05:30	06:12 (MT 16)	05:55	06:27		06:59	08:17 (MT 17)	06:34	07:28 (MT 17)	07:10	
	20:39	27 06:39 (MT 16)	20:18	19:32		18:41	53 09:10 (MT 17)	16:54	24 07:52 (MT 17)	16:30	
4	05:30	06:13 (MT 16)	05:57	06:28		07:00	08:16 (MT 17)	06:36	07:16 (MT 18)	07:11	
	20:39	25 06:38 (MT 16)	20:17	19:31		18:39	55 09:11 (MT 17)	16:53	26 07:49 (MT 17)	16:30	
5	05:31	06:14 (MT 16)	05:58	06:29		07:01	08:15 (MT 17)	06:37	07:13 (MT 18)	07:12	
	20:39	24 06:38 (MT 16)	20:15	19:29		18:37	57 09:12 (MT 17)	16:51	14 07:27 (MT 18)	16:30	
6	05:32	06:16 (MT 16)	05:59	06:31		07:02	08:14 (MT 17)	06:38	07:11 (MT 18)	07:13	
	20:39	21 06:37 (MT 16)	20:14	19:27		18:36	58 09:12 (MT 17)	16:50	17 07:28 (MT 18)	16:30	
7	05:32	06:16 (MT 16)	06:00	06:32		07:03	08:13 (MT 17)	06:39	07:11 (MT 18)	07:14	
	20:38	20 06:36 (MT 16)	20:13	19:26		18:34	59 09:12 (MT 17)	16:49	19 07:30 (MT 18)	16:30	
8	05:33	06:19 (MT 16)	06:01	06:33		07:04	08:13 (MT 17)	06:40	07:10 (MT 18)	07:15	
	20:38	15 06:34 (MT 16)	20:12	19:24		18:32	60 09:13 (MT 17)	16:48	21 07:31 (MT 18)	16:30	
9	05:34	06:21 (MT 16)	06:02	06:34		07:05	08:12 (MT 17)	06:42	07:09 (MT 18)	07:16	
	20:38	12 06:33 (MT 16)	20:10	19:22		18:31	62 09:14 (MT 17)	16:47	22 07:31 (MT 18)	16:30	
10	05:34	06:25 (MT 16)	06:03	06:35		07:06	08:12 (MT 17)	06:43	07:09 (MT 18)	07:16	
	20:37	3 06:28 (MT 16)	20:09	19:21		18:29	62 09:14 (MT 17)	16:46	23 07:32 (MT 18)	16:30	
11	05:35		06:04	06:36	07:03 (MT 19)	07:07	08:11 (MT 17)	06:44	07:09 (MT 18)	07:17	
	20:37		20:08	19:19	11 07:14 (MT 19)	18:27	63 09:14 (MT 17)	16:45	24 07:33 (MT 18)	16:30	
12	05:36		06:05	06:37	07:01 (MT 19)	07:08	08:11 (MT 17)	06:45	07:09 (MT 18)	07:18	
	20:36		20:06	19:17	14 07:15 (MT 19)	18:26	62 09:13 (MT 17)	16:44	24 07:33 (MT 18)	16:30	
13	05:36		06:06	06:38	06:59 (MT 19)	07:10	08:10 (MT 17)	06:47	07:10 (MT 18)	07:19	
	20:36		20:05	19:15	17 07:16 (MT 19)	18:24	63 09:13 (MT 17)	16:43	24 07:34 (MT 18)	16:30	
14	05:37		06:07	06:39	06:59 (MT 19)	07:11	08:10 (MT 17)	06:48	07:11 (MT 18)	07:20	
	20:35		20:04	19:14	18 07:17 (MT 19)	18:22	63 09:13 (MT 17)	16:42	22 07:33 (MT 18)	16:30	
15	05:38		06:08	06:40	07:00 (MT 19)	07:12	08:10 (MT 17)	06:49	07:12 (MT 18)	07:20	
	20:35		20:02	19:12	17 07:17 (MT 19)	18:21	63 09:13 (MT 17)	16:41	21 07:33 (MT 18)	16:30	
16	05:39		06:09	06:41	07:01 (MT 19)	07:13	08:10 (MT 17)	06:50	07:13 (MT 18)	07:21	
	20:34		20:01	19:10	16 07:17 (MT 19)	18:19	63 09:13 (MT 17)	16:40	20 07:33 (MT 18)	16:31	
17	05:40		06:10	06:42	07:02 (MT 19)	07:14	08:10 (MT 17)	06:51	07:15 (MT 18)	07:22	
	20:33		19:59	19:08	15 07:17 (MT 19)	18:18	62 09:12 (MT 17)	16:39	19 07:34 (MT 18)	16:31	
18	05:40		06:11	06:43	07:03 (MT 19)	07:15	08:10 (MT 17)	06:53	07:16 (MT 18)	07:23	
	20:33		19:58	19:07	13 07:16 (MT 19)	18:16	62 09:12 (MT 17)	16:38	17 07:33 (MT 18)	16:31	
19	05:41		06:12	06:44	07:04 (MT 19)	07:16	08:10 (MT 17)	06:54	07:17 (MT 18)	07:23	
	20:32		19:56	19:05	12 07:16 (MT 19)	18:15	61 09:11 (MT 17)	16:38	16 07:33 (MT 18)	16:32	
20	05:42		06:13	06:45	07:05 (MT 19)	07:18	08:11 (MT 17)	06:55	07:19 (MT 18)	07:24	
	20:31		19:55	19:03	10 07:15 (MT 19)	18:13	60 09:11 (MT 17)	16:37	14 07:33 (MT 18)	16:32	
21	05:43		06:14	06:46	07:06 (MT 19)	07:19	08:11 (MT 17)	06:56	07:20 (MT 18)	07:24	
	20:30		19:53	19:01	7 07:13 (MT 19)	18:12	60 09:11 (MT 17)	16:36	12 07:32 (MT 18)	16:32	
22	05:44		06:15	06:47	07:07 (MT 19)	07:20	08:11 (MT 17)	06:57	07:21 (MT 18)	07:25	
	20:30		19:52	19:00	4 07:11 (MT 19)	18:10	59 09:10 (MT 17)	16:35	10 07:31 (MT 18)	16:33	
23	05:45		06:16	06:48	07:08 (MT 19)	07:21	08:12 (MT 17)	06:59	07:22 (MT 18)	07:25	
	20:29		19:50	18:58	4 08:47 (MT 17)	18:09	57 09:09 (MT 17)	16:35	8 07:30 (MT 18)	16:33	
24	05:46		06:17	06:49	08:36 (MT 17)	07:22	08:13 (MT 17)	07:00	07:24 (MT 18)	07:26	
	20:28		19:49	18:56	19 08:55 (MT 17)	18:07	55 09:08 (MT 17)	16:34	6 07:30 (MT 18)	16:34	
25	05:47		06:18	06:50	08:32 (MT 17)	06:23	07:14 (MT 17)	07:01	07:25 (MT 18)	07:26	
	20:27		19:47	18:54	26 08:58 (MT 17)	17:06	53 08:07 (MT 17)	16:34	3 07:28 (MT 18)	16:35	
26	05:48		06:19	06:51	08:30 (MT 17)	06:25	07:14 (MT 17)	07:02		07:27	
	20:26		19:46	18:53	32 09:02 (MT 17)	17:04	52 08:06 (MT 17)	16:33		16:35	
27	05:49		06:20	06:52	08:27 (MT 17)	06:26	07:15 (MT 17)	07:03		07:27	
	20:25		19:44	18:51	37 09:04 (MT 17)	17:03	50 08:05 (MT 17)	16:33		16:36	
28	05:50		06:21	06:53	08:25 (MT 17)	06:27	07:17 (MT 17)	07:04		07:27	
	20:24		19:42	18:49	40 09:05 (MT 17)	17:02	47 08:04 (MT 17)	16:32		16:37	
29	05:51		06:22	06:54	08:23 (MT 17)	06:28	07:18 (MT 17)	07:05		07:28	
	20:23		19:41	18:48	44 09:07 (MT 17)	17:00	44 08:02 (MT 17)	16:32		16:37	
30	05:52		06:23	06:55	08:21 (MT 17)	06:29	07:19 (MT 17)	07:07		07:28	
	20:22		19:39	18:46	47 09:08 (MT 17)	16:59	42 08:01 (MT 17)	16:31		16:38	
31	05:53		06:24			06:31	07:20 (MT 17)			07:28	
	20:21		19:37			16:58	39 07:59 (MT 17)			16:39	
Potential sun hours	461		429		375		344		296		285
Total, worst case	204				403		1747		470		
Sun reduction	0,61				0,58		0,44		0,41		
Oper. time red.	0,70				0,70		0,70		0,70		
Wind dir. red.	0,56				0,65		0,66		0,67		
Total reduction	0,24				0,26		0,20		0,19		
Total, real	49				106		356		90		

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: R59 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28	15:01 (MT 17)	07:14	07:43 (MT 19)	06:37	06:45	17:37 (MT 16)	05:58	17:42 (MT 16)	05:29		
	16:40	45 15:46 (MT 17)	17:15	52 08:35 (MT 19)	17:50	19:25	58 18:35 (MT 16)	19:58	38 18:20 (MT 16)	20:28		
2	07:28	15:02 (MT 17)	07:13	07:42 (MT 19)	06:36	06:44	17:35 (MT 16)	05:57	17:44 (MT 16)	05:28		
	16:41	45 15:47 (MT 17)	17:16	53 08:35 (MT 19)	17:51	19:26	61 18:36 (MT 16)	19:59	34 18:18 (MT 16)	20:29		
3	07:28	15:02 (MT 17)	07:12	07:42 (MT 19)	06:34	06:42	17:35 (MT 16)	05:56	17:45 (MT 16)	05:28		
	16:41	45 15:47 (MT 17)	17:17	53 08:35 (MT 19)	17:52	19:27	62 18:37 (MT 16)	20:00	31 18:16 (MT 16)	20:30		
4	07:28	15:02 (MT 17)	07:11	07:42 (MT 19)	06:32	06:40	17:34 (MT 16)	05:54	17:48 (MT 16)	05:27		
	16:42	46 15:48 (MT 17)	17:19	54 08:36 (MT 19)	17:53	19:28	63 18:37 (MT 16)	20:01	25 18:13 (MT 16)	20:31		
5	07:28	15:03 (MT 17)	07:10	07:42 (MT 19)	06:31	06:38	17:33 (MT 16)	05:53	17:51 (MT 16)	05:27		
	16:43	45 15:48 (MT 17)	17:20	54 08:36 (MT 19)	17:55	19:30	64 18:37 (MT 16)	20:02	20 18:11 (MT 16)	20:31		
6	07:28	15:04 (MT 17)	07:09	07:42 (MT 19)	06:29	06:37	17:32 (MT 16)	05:52	17:56 (MT 16)	05:27		
	16:44	45 15:49 (MT 17)	17:21	54 08:36 (MT 19)	17:56	19:31	64 18:36 (MT 16)	20:04	10 18:06 (MT 16)	20:32		
7	07:28	07:55 (MT 15)	07:08	07:42 (MT 19)	06:28	06:35	17:32 (MT 16)	05:51		05:26		
	16:45	50 15:49 (MT 17)	17:22	55 08:37 (MT 19)	17:57	19:32	65 18:37 (MT 16)	20:05		20:33		
8	07:28	07:53 (MT 15)	07:07	07:43 (MT 19)	06:26	06:33	17:31 (MT 16)	05:49		05:26		
	16:46	54 15:49 (MT 17)	17:24	54 08:37 (MT 19)	17:58	19:33	66 18:37 (MT 16)	20:06		20:33		
9	07:28	07:52 (MT 15)	07:05	07:42 (MT 19)	06:24	06:32	17:31 (MT 16)	05:48		05:26		
	16:47	57 15:50 (MT 17)	17:25	54 08:36 (MT 19)	17:59	19:34	66 18:37 (MT 16)	20:07		20:34		
10	07:28	07:51 (MT 15)	07:04	07:43 (MT 19)	06:23	06:30	17:31 (MT 16)	05:47		05:25		
	16:48	59 15:50 (MT 17)	17:26	53 08:36 (MT 19)	18:00	19:35	66 18:37 (MT 16)	20:08		20:35		
11	07:28	07:51 (MT 15)	07:03	07:43 (MT 19)	06:21	06:29	17:30 (MT 16)	05:46		05:25		
	16:49	61 15:51 (MT 17)	17:28	53 08:36 (MT 19)	18:02	19:36	66 18:36 (MT 16)	20:09		20:35		
12	07:27	07:50 (MT 15)	07:02	07:43 (MT 19)	06:19	06:27	17:31 (MT 16)	05:45		05:25		
	16:50	65 15:51 (MT 17)	17:29	52 08:35 (MT 19)	18:03	19:37	66 18:37 (MT 16)	20:10		20:36		
13	07:27	07:50 (MT 15)	07:00	07:44 (MT 19)	06:18	06:25	17:30 (MT 16)	05:44		05:26		
	16:52	67 15:51 (MT 17)	17:30	51 08:35 (MT 19)	18:04	19:38	66 18:36 (MT 16)	20:11		20:36		
14	07:27	07:49 (MT 15)	06:59	07:45 (MT 19)	06:16	06:24	17:30 (MT 16)	05:43		05:25		
	16:53	70 15:51 (MT 17)	17:31	50 08:35 (MT 19)	18:05	19:39	65 18:35 (MT 16)	20:12		20:37		
15	07:26	07:50 (MT 15)	06:58	07:44 (MT 19)	06:14	06:22	17:30 (MT 16)	05:42		05:25		
	16:54	71 15:52 (MT 17)	17:33	49 08:33 (MT 19)	18:06	19:41	65 18:35 (MT 16)	20:13		20:37		
16	07:26	07:49 (MT 15)	06:56	07:46 (MT 19)	06:13	06:20	17:30 (MT 16)	05:41		05:25		
	16:55	72 15:51 (MT 17)	17:34	47 08:33 (MT 19)	18:07	19:42	64 18:34 (MT 16)	20:14		20:37		
17	07:25	07:49 (MT 19)	06:55	07:47 (MT 19)	06:11	06:19	17:31 (MT 16)	05:40		05:25		
	16:56	74 15:52 (MT 17)	17:35	45 08:32 (MT 19)	18:08	19:43	63 18:34 (MT 16)	20:15		20:38		
18	07:25	07:48 (MT 19)	06:54	07:47 (MT 19)	06:09	06:17	17:31 (MT 16)	05:39		05:25		
	16:57	75 15:52 (MT 17)	17:36	44 08:31 (MT 19)	18:10	19:44	62 18:33 (MT 16)	20:16		20:38		
19	07:24	07:48 (MT 19)	06:52	07:49 (MT 19)	06:07	06:16	17:32 (MT 16)	05:38		05:25		
	16:59	76 15:52 (MT 17)	17:38	41 08:30 (MT 19)	18:11	19:45	61 18:33 (MT 16)	20:17		20:38		
20	07:24	07:47 (MT 19)	06:51	07:49 (MT 19)	06:06	06:14	17:31 (MT 16)	05:37		05:25		
	17:00	78 15:52 (MT 17)	17:39	39 08:28 (MT 19)	18:12	19:46	61 18:32 (MT 16)	20:18		20:39		
21	07:23	07:46 (MT 19)	06:49	07:51 (MT 19)	06:04	06:13	17:32 (MT 16)	05:36		05:25		
	17:01	78 15:51 (MT 17)	17:40	36 08:27 (MT 19)	18:13	9 17:05 (MT 16)	19:47	60 18:32 (MT 16)	20:19	20:39		
22	07:22	07:46 (MT 19)	06:48	07:52 (MT 19)	06:02	06:11	16:58 (MT 16)	06:11	17:33 (MT 16)	05:35		
	17:02	80 15:52 (MT 17)	17:41	32 08:24 (MT 19)	18:14	22 17:20 (MT 16)	19:48	57 18:30 (MT 16)	20:20	20:39		
23	07:22	07:45 (MT 19)	06:46	07:55 (MT 19)	06:01	06:10	16:53 (MT 16)	06:10	17:34 (MT 16)	05:34		
	17:03	80 15:51 (MT 17)	17:43	27 08:22 (MT 19)	18:15	30 17:23 (MT 16)	19:49	56 18:30 (MT 16)	20:21	20:39		
24	07:21	07:45 (MT 19)	06:45	07:57 (MT 19)	05:59	06:08	16:51 (MT 16)	06:08	17:34 (MT 16)	05:34		
	17:05	80 15:51 (MT 17)	17:44	22 08:19 (MT 19)	18:16	35 17:26 (MT 16)	19:50	54 18:28 (MT 16)	20:22	20:40		
25	07:20	07:44 (MT 19)	06:43	08:01 (MT 19)	05:57	06:07	16:48 (MT 16)	06:07	17:35 (MT 16)	05:33		
	17:06	80 15:50 (MT 17)	17:45	14 08:15 (MT 19)	18:17	40 17:28 (MT 16)	19:52	53 18:28 (MT 16)	20:23	20:40		
26	07:20	07:44 (MT 19)	06:42		05:55	06:05	16:45 (MT 16)	06:05	17:36 (MT 16)	05:32		
	17:07	79 15:49 (MT 17)	17:46		18:18	44 17:29 (MT 16)	19:53	51 18:27 (MT 16)	20:23	20:40		
27	07:19	07:43 (MT 19)	06:40		05:54	06:04	16:43 (MT 16)	06:04	17:37 (MT 16)	05:31		
	17:08	77 15:48 (MT 17)	17:47		18:20	48 17:31 (MT 16)	19:54	48 18:25 (MT 16)	20:24	20:40		
28	07:18	07:43 (MT 19)	06:39		05:52	06:02	16:42 (MT 16)	06:02	17:38 (MT 16)	05:31		
	17:10	76 15:47 (MT 17)	17:49		18:21	50 17:32 (MT 16)	19:55	46 18:24 (MT 16)	20:25	20:40		
29	07:17	07:43 (MT 19)			06:50	06:01	17:40 (MT 16)	06:01	17:39 (MT 16)	05:30		
	17:11	75 15:47 (MT 17)			19:22	53 18:33 (MT 16)	19:56	43 18:22 (MT 16)	20:26	20:40		
30	07:16	07:43 (MT 19)			06:49	06:00	17:39 (MT 16)	06:00	17:40 (MT 16)	05:30		
	17:12	71 15:45 (MT 17)			19:23	55 18:34 (MT 16)	19:57	41 18:21 (MT 16)	20:27	20:40		
31	07:15	07:43 (MT 19)			06:47		17:38 (MT 16)			05:29		
	17:13	66 15:42 (MT 17)			19:24	57 18:35 (MT 16)			20:28	20:40		
Potential sun hours	295		296		369		400		450			455
Total, worst case	2042		1138		443		1783		158			
Sun reduction	0,44		0,46		0,44		0,48		0,47			
Oper. time red.	0,70		0,70		0,70		0,70		0,70			
Wind dir. red.	0,60		0,67		0,61		0,61		0,61			
Total reduction	0,19		0,21		0,19		0,20		0,20			
Total, real	379		244		83		362		31			

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: R59 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	17:29 (MT 16) 18:35 (MT 16)	06:56 18:44	07:12 (MT 19) 16:31
2	05:29 20:39	05:54 20:19	06:26 19:34	17:29 (MT 16) 18:35 (MT 16)	06:58 18:42	07:09 16:31
3	05:30 20:39	05:55 20:18	06:27 19:32	17:28 (MT 16) 18:34 (MT 16)	06:59 18:41	07:10 16:30
4	05:30 20:39	05:56 20:16	06:28 19:31	17:28 (MT 16) 18:34 (MT 16)	07:00 18:39	07:11 16:30
5	05:31 20:39	05:57 20:15	06:29 19:29	17:28 (MT 16) 18:33 (MT 16)	07:01 18:37	07:12 (MT 19) 16:30
6	05:32 20:39	05:58 20:14	06:30 19:27	17:28 (MT 16) 18:33 (MT 16)	07:02 18:36	07:13 (MT 19) 16:30
7	05:32 20:38	05:59 20:13	06:31 19:26	17:28 (MT 16) 18:32 (MT 16)	07:03 18:34	07:14 (MT 19) 16:30
8	05:33 20:38	06:01 20:12	06:33 19:24	17:28 (MT 16) 18:31 (MT 16)	07:04 18:32	07:15 (MT 19) 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	17:28 (MT 16) 18:30 (MT 16)	07:05 18:31	07:16 (MT 19) 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	17:28 (MT 16) 18:29 (MT 16)	07:06 18:29	07:16 (MT 19) 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	17:29 (MT 16) 18:28 (MT 16)	07:07 18:27	07:17 (MT 19) 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	17:29 (MT 16) 18:26 (MT 16)	07:08 18:26	07:18 (MT 19) 16:30
13	05:36 20:36	06:06 20:05	06:38 19:15	17:30 (MT 16) 18:25 (MT 16)	07:10 18:24	07:19 (MT 19) 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	17:30 (MT 16) 18:24 (MT 16)	07:11 18:22	07:20 (MT 19) 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	17:31 (MT 16) 18:22 (MT 16)	07:12 18:21	07:20 (MT 19) 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	17:32 (MT 16) 18:20 (MT 16)	07:13 18:19	07:21 (MT 19) 16:31
17	05:40 20:33	06:10 19:59	06:42 19:08	17:33 (MT 16) 18:18 (MT 16)	07:14 18:18	07:22 (MT 19) 16:31
18	05:40 20:33	06:11 19:58	06:43 19:07	17:35 (MT 16) 18:16 (MT 16)	07:15 18:16	07:23 (MT 19) 16:31
19	05:41 20:32	06:12 19:56	06:44 19:05	17:37 (MT 16) 18:13 (MT 16)	07:16 18:15	07:23 (MT 19) 16:32
20	05:42 20:31	06:13 19:55	06:45 19:03	17:39 (MT 16) 18:10 (MT 16)	07:18 18:13	07:24 (MT 19) 16:32
21	05:43 20:30	06:14 19:53	06:46 19:01	17:42 (MT 16) 18:06 (MT 16)	07:19 18:12	07:24 (MT 19) 16:32
22	05:44 20:30	06:15 19:52	06:47 19:00	17:47 (MT 16) 18:01 (MT 16)	07:20 18:10	07:25 (MT 19) 16:33
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	07:21 18:09	07:25 (MT 19) 16:33
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:22 18:07	07:26 (MT 19) 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 18:02	07:26 (MT 19) 16:34
26	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:04	07:02 18:03	07:27 (MT 19) 16:35
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 18:03	07:27 (MT 19) 16:36
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 18:04	07:27 (MT 19) 16:36
29	05:50 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 18:05	07:28 (MT 19) 16:37
30	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 18:05	07:28 (MT 19) 16:38
31	05:52 20:21	06:24 19:37	06:56 18:36 (MT 16)	06:31 16:57	07:07 18:05 (MT 19)	07:28 (MT 19) 16:39
Potential sun hours	462	429	375	344	296	285
Total, worst case		1258	1159	620	2026	1447
Sun reduction		0,67	0,58	0,44	0,41	0,36
Oper. time red.		0,70	0,70	0,70	0,70	0,70
Wind dir. red.		0,61	0,61	0,67	0,63	0,54
Total reduction		0,28	0,25	0,20	0,18	0,14
Total, real		356	284	127	363	199

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: R60 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

January		February		March		April		May		June	
1	07:28	08:03 (MT 15)	07:14		06:37	16:01 (MT 16)	06:45	05:58		05:29	
	16:40	69	15:08 (MT 17)	17:15		17:50	57	16:58 (MT 16)	19:25	19:58	20:28
2	07:28	08:04 (MT 15)	07:13		06:36	16:01 (MT 16)	06:44	05:57		05:28	
	16:41	62	15:06 (MT 17)	17:16		17:51	58	16:59 (MT 16)	19:26	19:59	20:29
3	07:28	08:04 (MT 15)	07:12		06:34	16:01 (MT 16)	06:42	05:56		05:28	
	16:41	61	09:05 (MT 19)	17:17		17:52	58	16:59 (MT 16)	19:27	20:00	20:30
4	07:28	08:05 (MT 15)	07:11		06:32	16:01 (MT 16)	06:40	05:54		05:27	
	16:42	60	09:05 (MT 19)	17:19		17:53	58	16:59 (MT 16)	19:28	20:01	20:31
5	07:28	08:06 (MT 15)	07:10		06:31	16:00 (MT 16)	06:38	05:53		05:27	
	16:43	59	09:05 (MT 19)	17:20		17:55	59	16:59 (MT 16)	19:30	20:02	20:31
6	07:28	08:06 (MT 15)	07:09		06:29	16:00 (MT 16)	06:37	05:52		05:27	
	16:44	60	09:06 (MT 19)	17:21		17:56	58	16:58 (MT 16)	19:31	20:04	20:32
7	07:28	08:07 (MT 15)	07:08		06:28	16:01 (MT 16)	06:35	05:51		05:26	
	16:45	59	09:06 (MT 19)	17:22		17:57	58	16:59 (MT 16)	19:32	20:05	20:33
8	07:28	08:07 (MT 15)	07:07		06:26	16:00 (MT 16)	06:33	05:49		05:26	
	16:46	58	09:05 (MT 19)	17:24		17:58	58	16:58 (MT 16)	19:33	20:06	20:33
9	07:28	08:08 (MT 15)	07:05		06:24	16:00 (MT 16)	06:32	05:48		05:26	
	16:47	58	09:06 (MT 19)	17:25		17:59	57	16:57 (MT 16)	19:34	20:07	20:34
10	07:28	08:09 (MT 15)	07:04		06:23	16:01 (MT 16)	06:30	05:47		05:25	
	16:48	57	09:06 (MT 19)	17:26		18:00	56	16:57 (MT 16)	19:35	20:08	20:35
11	07:28	08:11 (MT 15)	07:03		06:21	16:01 (MT 16)	06:29	05:46		05:25	
	16:49	55	09:06 (MT 19)	17:28		18:02	55	16:56 (MT 16)	19:36	20:09	20:35
12	07:27	08:11 (MT 15)	07:02		06:19	16:01 (MT 16)	06:27	05:45		05:25	
	16:50	55	09:06 (MT 19)	17:29		18:03	54	16:55 (MT 16)	19:37	20:10	20:36
13	07:27	08:13 (MT 15)	07:00		06:18	16:02 (MT 16)	06:25	05:44		05:25	
	16:52	53	09:06 (MT 19)	17:30		18:04	53	16:55 (MT 16)	19:38	20:11	20:36
14	07:27	08:14 (MT 15)	06:59		16:27 (MT 16)	06:16	16:03 (MT 16)	06:24	05:43	05:25	
	16:53	51	09:05 (MT 19)	17:31	9	16:36 (MT 16)	18:05	51	16:54 (MT 16)	19:39	20:12
15	07:26	08:16 (MT 15)	06:58		16:21 (MT 16)	06:14	16:03 (MT 16)	06:22	05:42	05:25	
	16:54	50	09:06 (MT 19)	17:33	20	16:41 (MT 16)	18:06	49	16:52 (MT 16)	19:41	20:13
16	07:26	08:20 (MT 15)	06:56		16:18 (MT 16)	06:13	16:04 (MT 16)	06:20	05:41	05:25	
	16:55	40	09:05 (MT 19)	17:34	27	16:45 (MT 16)	18:07	47	16:51 (MT 16)	19:42	20:14
17	07:25	08:27 (MT 19)	06:55		16:16 (MT 16)	06:11	16:05 (MT 16)	06:19	05:40	05:25	
	16:56	38	09:05 (MT 19)	17:35	32	16:48 (MT 16)	18:08	45	16:50 (MT 16)	19:43	20:15
18	07:25	08:28 (MT 19)	06:54		16:13 (MT 16)	06:09	16:06 (MT 16)	06:17	05:39	05:25	
	16:57	36	09:04 (MT 19)	17:36	36	16:49 (MT 16)	18:10	42	16:48 (MT 16)	19:44	20:16
19	07:24	08:30 (MT 19)	06:52		16:12 (MT 16)	06:07	16:07 (MT 16)	06:16	05:38	05:25	
	16:58	34	09:04 (MT 19)	17:38	39	16:51 (MT 16)	18:11	39	16:46 (MT 16)	19:45	20:17
20	07:24	08:31 (MT 19)	06:51		16:10 (MT 16)	06:06	16:10 (MT 16)	06:14	05:37	05:25	
	17:00	32	09:03 (MT 19)	17:39	42	16:52 (MT 16)	18:12	35	16:45 (MT 16)	19:46	20:18
21	07:23	08:32 (MT 19)	06:49		16:09 (MT 16)	06:04	16:11 (MT 16)	06:13	05:36	05:25	
	17:01	30	09:02 (MT 19)	17:40	45	16:54 (MT 16)	18:13	32	16:43 (MT 16)	19:47	20:19
22	07:22	08:34 (MT 19)	06:48		16:07 (MT 16)	06:02	16:14 (MT 16)	06:11	05:35	05:26	
	17:02	27	09:01 (MT 19)	17:41	47	16:54 (MT 16)	18:14	25	16:39 (MT 16)	19:48	20:20
23	07:22	08:36 (MT 19)	06:46		16:06 (MT 16)	06:01	16:17 (MT 16)	06:10	05:34	05:26	
	17:03	24	09:00 (MT 19)	17:43	50	16:56 (MT 16)	18:15	18	16:35 (MT 16)	19:49	20:21
24	07:21	08:38 (MT 19)	06:45		16:05 (MT 16)	05:59	16:25 (MT 16)	06:08	05:34	05:26	
	17:05	19	08:57 (MT 19)	17:44	51	16:56 (MT 16)	18:16	4	16:29 (MT 16)	19:50	20:22
25	07:20	08:41 (MT 19)	06:43		16:04 (MT 16)	05:57		06:07	05:33	05:26	
	17:06	13	08:54 (MT 19)	17:45	53	16:57 (MT 16)	18:17		19:52	20:23	20:40
26	07:20		06:42		16:03 (MT 16)	05:55		06:05	05:32	05:27	
	17:07		17:46		54	16:57 (MT 16)	18:18		19:53	20:23	20:40
27	07:19		06:40		16:03 (MT 16)	05:54		06:04	05:31	05:27	
	17:08		17:47		56	16:59 (MT 16)	18:20		19:54	20:24	20:40
28	07:18		06:39		16:02 (MT 16)	05:52		06:02	05:31	05:28	
	17:10		17:49		56	16:58 (MT 16)	18:21		19:55	20:25	20:40
29	07:17					06:50		06:01	05:30	05:28	
	17:11					19:22		19:56	20:26	20:40	
30	07:16					06:49		06:00	05:30	05:28	
	17:12					19:23		19:57	20:27	20:40	
31	07:15					06:47			05:29		
	17:13					19:24			20:28		
Potential sun hours	295		296			369		400		450	455
Total, worst case	1160		617			1126					
Sun reduction	0,44		0,46			0,44					
Oper. time red.	0,70		0,70			0,70					
Wind dir. red.	0,66		0,57			0,57					
Total reduction	0,21		0,18			0,18					
Total, real	239		112			197					

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: R60 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29	05:53	06:25	06:56	16:41 (MT 16)	07:08
	20:40	20:20	19:36	18:44	54 17:35 (MT 16)	16:31
2	05:29	05:54	06:26	06:58	16:40 (MT 16)	07:09
	20:39	20:19	19:34	18:42	55 17:35 (MT 16)	16:31
3	05:30	05:55	06:27	06:59	16:39 (MT 16)	07:10
	20:39	20:18	19:32	18:41	56 17:35 (MT 16)	16:30
4	05:30	05:56	06:28	07:00	16:38 (MT 16)	07:11
	20:39	20:16	19:31	18:39	57 17:35 (MT 16)	16:30
5	05:31	05:57	06:29	07:01	16:37 (MT 16)	07:12
	20:39	20:15	19:29	18:37	58 17:35 (MT 16)	16:30
6	05:32	05:58	06:30	07:02	16:36 (MT 16)	07:13
	20:39	20:14	19:27	18:36	58 17:34 (MT 16)	16:30
7	05:32	05:59	06:31	07:03	16:36 (MT 16)	07:14
	20:38	20:13	19:26	18:34	58 17:34 (MT 16)	16:30
8	05:33	06:00	06:33	07:04	16:35 (MT 16)	07:15
	20:38	20:12	19:24	18:32	59 17:34 (MT 16)	16:30
9	05:34	06:02	06:34	07:05	16:36 (MT 16)	07:16
	20:38	20:10	19:22	18:31	58 17:34 (MT 16)	16:30
10	05:34	06:03	06:35	07:06	16:35 (MT 16)	07:16
	20:37	20:09	19:21	18:29	59 17:34 (MT 16)	16:30
11	05:35	06:04	06:36	07:07	16:35 (MT 16)	07:17
	20:37	20:08	19:19	18:27	58 17:33 (MT 16)	16:30
12	05:36	06:05	06:37	07:08	16:35 (MT 16)	07:18
	20:36	20:06	19:17	18:26	57 17:32 (MT 16)	16:30
13	05:36	06:06	06:38	07:10	16:35 (MT 16)	07:19
	20:36	20:05	19:15	18:24	57 17:32 (MT 16)	16:30
14	05:37	06:07	06:39	07:11	16:35 (MT 16)	07:20
	20:35	20:04	19:14	18:22	56 17:31 (MT 16)	16:30
15	05:38	06:08	06:40	07:12	16:36 (MT 16)	07:20
	20:35	20:02	19:12	18:21	55 17:31 (MT 16)	16:30
16	05:39	06:09	06:41	07:13	16:36 (MT 16)	07:21
	20:34	20:01	19:10	18:19	54 17:30 (MT 16)	16:31
17	05:40	06:10	06:42	07:14	16:36 (MT 16)	07:22
	20:33	19:59	19:08	18:18	53 17:29 (MT 16)	16:31
18	05:40	06:11	06:43	07:15	16:37 (MT 16)	07:23
	20:33	19:58	19:07	18:16	50 17:27 (MT 16)	16:31
19	05:41	06:12	06:44	07:16	16:37 (MT 16)	07:23
	20:32	19:56	19:05	18:15	49 17:26 (MT 16)	16:31
20	05:42	06:13	06:45	17:04 (MT 16)	16:39 (MT 16)	07:24
	20:31	19:55	19:03	17:21 (MT 16)	18:13	47 17:26 (MT 16)
21	05:43	06:14	06:46	17:00 (MT 16)	16:40 (MT 16)	07:24
	20:30	19:53	19:01	17:24 (MT 16)	18:12	44 17:24 (MT 16)
22	05:44	06:15	06:47	16:57 (MT 16)	16:41 (MT 16)	07:25
	20:30	19:52	19:00	17:26 (MT 16)	18:10	41 17:22 (MT 16)
23	05:45	06:16	06:48	16:54 (MT 16)	16:42 (MT 16)	07:25
	20:29	19:50	18:58	17:28 (MT 16)	18:09	38 17:20 (MT 16)
24	05:46	06:17	06:49	16:51 (MT 16)	16:43 (MT 16)	07:26
	20:28	19:49	18:56	17:29 (MT 16)	18:07	35 17:18 (MT 16)
25	05:47	06:18	06:50	16:49 (MT 16)	16:44 (MT 16)	07:26
	20:27	19:47	18:54	17:30 (MT 16)	17:06	31 16:17 (MT 16)
26	05:48	06:19	06:51	16:47 (MT 16)	16:45 (MT 16)	07:27
	20:26	19:45	18:53	17:31 (MT 16)	17:04	26 16:14 (MT 16)
27	05:49	06:20	06:52	16:47 (MT 16)	16:46 (MT 16)	07:27
	20:25	19:44	18:51	17:33 (MT 16)	17:03	19 16:10 (MT 16)
28	05:50	06:21	06:53	16:45 (MT 16)	16:47 (MT 16)	07:27
	20:24	19:42	18:49	17:34 (MT 16)	17:01	4 16:03 (MT 16)
29	05:50	06:22	06:54	16:44 (MT 16)	16:48 (MT 16)	07:28
	20:23	19:41	18:47	17:34 (MT 16)	17:00	53 08:46 (MT 19)
30	05:51	06:23	06:55	16:42 (MT 16)	16:49 (MT 16)	07:28
	20:22	19:39	18:46	17:34 (MT 16)	16:59	55 08:48 (MT 19)
31	05:52	06:24		06:31		07:28
	20:21	19:37		16:57		16:39
Potential sun hours	462	429	375	344	296	285
Total, worst case			424	1346	501	2206
Sun reduction			0,58	0,44	0,41	0,36
Oper. time red.			0,70	0,70	0,70	0,70
Wind dir. red.			0,57	0,57	0,66	0,65
Total reduction			0,23	0,17	0,19	0,17
Total, real			98	233	95	368

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: R61 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

N NNE ENE E ESE SSE S SSW WSW W WNW NNW Sum
981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

	January	February	March	April	May	June	
1	07:28 16:40	07:51 (MT 19) 13:10 (MT 16)	07:14 17:15	07:54 (MT 19) 13:01 (MT 16)	06:37 17:50	06:45 19:25	05:29 20:29
2	07:28 16:41	07:51 (MT 19) 13:11 (MT 16)	07:13 17:16	07:55 (MT 19) 12:57 (MT 16)	06:36 17:51	06:44 19:26	05:28 20:29
3	07:28 16:42	07:51 (MT 19) 13:11 (MT 16)	07:12 17:17	07:58 (MT 19) 12:54 (MT 16)	06:34 17:52	06:42 19:27	05:28 20:30
4	07:29 16:42	07:51 (MT 19) 13:11 (MT 16)	07:11 17:19	12:20 (MT 16) 12:50 (MT 16)	06:32 17:53	06:40 19:28	05:27 20:31
5	07:28 16:43	07:51 (MT 19) 13:12 (MT 16)	07:10 17:20	12:29 (MT 16) 12:42 (MT 16)	06:31 17:55	06:39 19:30	05:27 20:31
6	07:28 16:44	07:51 (MT 19) 13:12 (MT 16)	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:04	05:27 20:32
7	07:28 16:45	07:51 (MT 19) 13:13 (MT 16)	07:08 17:22	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33
8	07:28 16:46	07:51 (MT 19) 13:13 (MT 16)	07:07 17:24	06:26 17:58	06:33 19:33	05:49 20:06	05:26 20:33
9	07:28 16:47	07:50 (MT 19) 13:12 (MT 16)	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34
10	07:28 16:48	07:50 (MT 19) 13:13 (MT 16)	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:35
11	07:28 16:49	07:50 (MT 19) 13:13 (MT 16)	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35
12	07:27 16:50	07:49 (MT 19) 13:13 (MT 16)	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36
13	07:27 16:52	07:49 (MT 19) 13:13 (MT 16)	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36
14	07:27 16:53	07:48 (MT 19) 13:13 (MT 16)	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37
15	07:26 16:54	07:48 (MT 19) 13:13 (MT 16)	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37
16	07:26 16:55	07:47 (MT 19) 13:13 (MT 16)	06:56 17:34	06:13 18:07	06:20 19:42	05:41 20:14	05:25 20:37
17	07:25 16:56	07:47 (MT 19) 13:13 (MT 16)	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38
18	07:25 16:57	07:46 (MT 19) 13:13 (MT 16)	06:54 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38
19	07:24 16:59	07:46 (MT 19) 13:13 (MT 16)	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38
20	07:24 17:00	07:45 (MT 19) 13:12 (MT 16)	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39
21	07:23 17:01	07:44 (MT 19) 13:12 (MT 16)	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39
22	07:23 17:02	07:45 (MT 19) 13:12 (MT 16)	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39
23	07:22 17:03	07:46 (MT 19) 13:11 (MT 16)	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39
24	07:21 17:05	07:46 (MT 19) 13:10 (MT 16)	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:40
25	07:20 17:06	07:46 (MT 19) 13:09 (MT 16)	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:26 20:40
26	07:20 17:07	07:47 (MT 19) 13:08 (MT 16)	06:42 17:46	05:55 18:19	06:05 19:53	05:32 20:24	05:27 20:40
27	07:19 17:08	07:47 (MT 19) 13:07 (MT 16)	06:40 17:47	05:54 18:20	06:04 19:54	05:31 20:24	05:27 20:40
28	07:18 17:10	07:49 (MT 19) 13:07 (MT 16)	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:28 20:40
29	07:17 17:11	07:50 (MT 19) 13:06 (MT 16)		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 17:12	07:51 (MT 19) 13:04 (MT 16)		06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40
31	07:15 17:13	07:52 (MT 19) 13:03 (MT 16)		06:47 19:24		05:29 20:28	
Potential sun hours	295	296		369	400	450	455
Total, worst case	3295		221				
Sun reduction	0,44		0,46				
Oper. time red.	0,70		0,70				
Wind dir. red.	0,68		0,68				
Total reduction	0,21		0,22				
Total, real	698		48				

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: R61 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31 111
2	05:29 20:39	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31 111
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30 110
4	05:30 20:39	05:56 20:17	06:28 19:31	07:00 18:39	06:36 16:52	07:11 16:30 110
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30 110
6	05:32 20:39	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	11:57 (MT 16) 07:13 108
7	05:32 20:38	05:59 20:13	06:32 19:26	07:03 18:34	06:39 16:49	11:50 (MT 16) 07:14 107
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:28 (MT 19) 07:15 106
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:25 (MT 19) 07:16 106
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:24 (MT 19) 07:16 105
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:23 (MT 19) 07:17 104
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:22 (MT 19) 07:18 103
13	05:36 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	07:21 (MT 19) 07:19 103
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	07:21 (MT 19) 07:20 101
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 (MT 19) 07:20 100
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:20 (MT 19) 07:21 100
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:20 (MT 19) 07:22 99
18	05:40 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	07:20 (MT 19) 07:23 98
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:20 (MT 19) 07:23 97
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:20 (MT 19) 07:24 97
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:20 (MT 19) 07:24 97
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:21 (MT 19) 07:25 97
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	07:22 (MT 19) 07:25 97
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:24 (MT 19) 07:26 97
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:25 (MT 19) 07:26 98
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	07:26 (MT 19) 07:27 99
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 (MT 19) 07:27 100
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:28 (MT 19) 07:27 100
29	05:50 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:29 (MT 19) 07:28 101
30	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	07:31 (MT 19) 07:28 103
31	05:52 20:21	06:24 19:37	06:56 18:45	06:31 16:58		07:28 16:39 103
Potential sun hours	462	429	375	344	296	285
Total, worst case					2337	3178
Sun reduction					0,41	0,36
Oper. time red.					0,70	0,70
Wind dir. red.					0,68	0,69
Total reduction					0,19	0,17
Total, real					453	556

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: R61bis - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:28 16:40	07:51 (MT 19) 13:01 (MT 16)	07:14 17:15	06:37 17:50	06:45 19:25	05:58 20:29	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56			
2	07:28 16:41	07:51 (MT 19) 13:01 (MT 16)	07:13 17:16	06:36 17:51	06:44 19:26	05:57 20:29	05:28 20:39	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	101	12:45 (MT 16)	
3	07:28 16:42	07:51 (MT 19) 13:02 (MT 16)	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	101	12:46 (MT 16)	
4	07:29 16:42	07:51 (MT 19) 13:02 (MT 16)	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	05:56 20:17	06:28 19:31	07:00 18:39	06:36 16:52	101	12:47 (MT 16)	
5	07:28 16:43	07:51 (MT 19) 13:02 (MT 16)	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	102	12:48 (MT 16)	
6	07:28 16:44	07:51 (MT 19) 13:02 (MT 16)	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:04	05:27 20:32	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	101	12:48 (MT 16)	
7	07:28 16:45	07:51 (MT 19) 13:03 (MT 16)	07:08 17:22	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	05:59 20:13	06:32 19:26	07:03 18:34	06:39 16:49	101	12:49 (MT 16)	
8	07:28 16:46	07:51 (MT 19) 13:03 (MT 16)	07:07 17:24	06:26 17:58	06:33 19:33	05:49 20:06	05:26 20:33	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	101	12:50 (MT 16)	
9	07:28 16:47	07:50 (MT 19) 13:02 (MT 16)	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	100	12:51 (MT 16)	
10	07:28 16:48	07:50 (MT 19) 13:02 (MT 16)	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:25 20:35	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	99	12:51 (MT 16)	
11	07:28 16:49	07:50 (MT 19) 13:03 (MT 16)	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	100	12:51 (MT 16)	
12	07:27 16:50	07:49 (MT 19) 13:02 (MT 16)	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	15	07:44 (MT 19)	
13	07:27 16:52	07:49 (MT 19) 13:02 (MT 16)	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	17	07:45 (MT 19)	
14	07:27 16:53	07:48 (MT 19) 13:01 (MT 16)	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	41	12:13 (MT 19)	
15	07:26 16:54	07:48 (MT 19) 13:01 (MT 16)	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	53	12:18 (MT 16)	
16	07:26 16:55	07:47 (MT 19) 13:00 (MT 16)	06:56 17:34	06:13 18:07	06:20 19:42	05:41 20:14	05:25 20:37	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	62	12:21 (MT 16)	
17	07:25 16:56	07:47 (MT 19) 13:01 (MT 16)	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	06:10 20:33	06:42 19:08	07:14 18:18	06:51 16:39	70	12:25 (MT 16)	
18	07:25 16:57	07:47 (MT 19) 13:00 (MT 16)	06:54 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	06:11 20:33	06:43 19:07	07:15 18:16	06:53 16:38	75	12:27 (MT 16)	
19	07:24 16:59	07:48 (MT 19) 12:59 (MT 16)	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	06:12 20:32	06:44 19:05	07:16 18:15	06:54 16:38	81	12:29 (MT 16)	
20	07:24 17:00	07:48 (MT 19) 12:58 (MT 16)	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	06:13 20:31	06:45 19:03	07:18 18:13	06:55 16:37	84	12:31 (MT 16)	
21	07:23 17:01	07:48 (MT 19) 12:57 (MT 16)	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	06:14 20:30	06:46 19:01	07:19 18:12	06:56 16:36	88	12:33 (MT 16)	
22	07:23 17:02	07:50 (MT 19) 12:56 (MT 16)	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	06:15 20:30	06:47 19:52	07:20 18:10	06:57 16:35	91	12:34 (MT 16)	
23	07:23 17:03	07:50 (MT 19) 12:55 (MT 16)	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	06:16 20:29	06:48 19:50	07:21 18:09	06:59 16:35	94	12:35 (MT 16)	
24	07:21 17:05	07:51 (MT 19) 12:53 (MT 16)	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:40	06:17 20:28	06:49 19:49	07:22 18:07	07:00 16:34	96	12:37 (MT 16)	
25	07:20 17:06	07:51 (MT 19) 12:51 (MT 16)	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:26 20:40	06:18 20:27	06:50 18:54	07:23 17:06	07:01 16:34	99	12:39 (MT 16)	
26	07:20 17:07	07:52 (MT 19) 12:48 (MT 16)	06:42 17:46	05:55 18:19	06:05 19:53	05:32 20:24	05:27 20:40	06:19 20:26	06:51 18:53	07:25 17:04	07:02 16:33	99	12:39 (MT 16)	
27	07:19 17:08	07:53 (MT 19) 12:45 (MT 16)	06:40 17:47	05:54 18:20	06:04 19:54	05:31 20:24	05:27 20:40	06:20 20:25	06:52 18:51	07:26 17:03	07:03 16:33	100	12:40 (MT 16)	
28	07:18 17:10	07:55 (MT 19) 12:41 (MT 16)	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:28 20:40	06:21 20:24	06:53 19:42	07:27 17:02	07:04 16:32	100	12:41 (MT 16)	
29	07:17 17:11	07:57 (MT 19) 08:14 (MT 19)		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40	06:22 20:23	06:54 19:41	07:28 17:00	07:05 16:32	101	12:42 (MT 16)	
30	07:16 17:12	07:59 (MT 19) 08:13 (MT 19)		06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40	06:23 20:22	06:55 18:46	07:29 16:59	07:07 16:31	101	12:44 (MT 16)	
31	07:15 17:13	08:02 (MT 19) 08:10 (MT 19)		06:47 19:24		05:29 20:28		06:24 20:21	06:31 19:37	07:31 16:58			101	12:45 (MT 16)
Potential sun hours	295		296	369	400	450	455	462	429	375	344	296		
Total, worst case	2580											1476		3069
Sun reduction	0,44											0,41		0,36
Oper. time red.	0,70											0,70		0,70
Wind dir. red.	0,68											0,68		0,69
Total reduction	0,21											0,19		0,18
Total, real	547											286		537

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: R62 - Shadow Receptor: 1,0 × 1,0 Azimuth: 0,0° Slope: 90,0° (35)
Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

		January	February	March	April	May	June	July	August	September	October	November	December
1	07:28	07:51 (MT 19)	07:14	06:37	06:45	05:58	05:29	05:29	05:53	06:25	06:56	06:32	07:08
	16:40	11 08:02 (MT 19)	17:15	17:50	19:25	19:58	20:29	20:40	20:20	19:36	18:44	16:56	16:31
2	07:28	07:51 (MT 19)	07:13	06:36	06:44	05:57	05:28	05:29	05:54	06:26	06:58	06:33	07:09
	16:41	11 08:02 (MT 19)	17:16	17:51	19:26	19:59	20:29	20:40	20:19	19:34	18:42	16:55	16:31
3	07:28	07:51 (MT 19)	07:12	06:34	06:42	05:56	05:28	05:30	05:55	06:27	06:59	06:34	07:10
	16:42	12 08:03 (MT 19)	17:17	17:52	19:27	20:00	20:30	20:39	20:18	19:32	18:41	16:54	16:30
4	07:29	07:51 (MT 19)	07:11	06:32	06:40	05:54	05:27	05:30	05:56	06:28	07:00	06:36	07:11
	16:42	13 08:04 (MT 19)	17:19	17:53	19:28	20:01	20:31	20:39	20:17	19:31	18:39	16:53	16:30
5	07:29	07:51 (MT 19)	07:10	06:31	06:39	05:53	05:27	05:31	05:57	06:29	07:01	06:37	07:12
	16:43	13 08:04 (MT 19)	17:20	17:55	19:30	20:02	20:31	20:39	20:15	19:29	18:37	16:51	16:30
6	07:28	07:51 (MT 19)	07:09	06:29	06:37	05:52	05:27	05:32	05:58	06:30	07:02	06:38	07:13
	16:44	14 08:05 (MT 19)	17:21	17:56	19:31	20:04	20:32	20:39	20:14	19:27	18:36	16:50	16:30
7	07:28	07:51 (MT 19)	07:08	06:28	06:35	05:51	05:26	05:32	06:00	06:32	07:03	06:39	07:14
	16:45	15 08:06 (MT 19)	17:22	17:57	19:32	20:05	20:33	20:38	20:13	19:26	18:34	16:49	16:30
8	07:28	07:51 (MT 19)	07:07	06:26	06:34	05:49	05:26	05:33	06:01	06:33	07:04	06:40	07:15
	16:46	16 08:07 (MT 19)	17:24	17:58	19:33	20:06	20:33	20:38	20:12	19:24	18:32	16:48	16:30
9	07:28	07:50 (MT 19)	07:05	06:24	06:32	05:48	05:26	05:34	06:02	06:34	07:05	06:42	07:16
	16:47	17 08:07 (MT 19)	17:25	17:59	19:34	20:07	20:34	20:38	20:10	19:22	18:31	16:47	16:30
10	07:28	07:50 (MT 19)	07:04	06:23	06:30	05:47	05:26	05:34	06:03	06:35	07:06	06:43	07:16
	16:48	18 08:08 (MT 19)	17:26	18:00	19:35	20:08	20:35	20:37	20:09	19:21	18:29	16:46	16:30
11	07:28	07:50 (MT 19)	07:03	06:21	06:29	05:46	05:25	05:35	06:04	06:36	07:07	06:44	07:17
	16:49	19 08:09 (MT 19)	17:28	18:02	19:36	20:09	20:35	20:37	20:08	19:19	18:27	16:45	16:30
12	07:27	07:49 (MT 19)	07:02	06:19	06:27	05:45	05:25	05:36	06:05	06:37	07:08	06:45	07:18
	16:50	19 08:08 (MT 19)	17:29	18:03	19:37	20:10	20:36	20:36	20:06	19:17	18:26	16:44	16:30
13	07:27	07:49 (MT 19)	07:00	06:18	06:25	05:44	05:25	05:36	06:06	06:38	07:10	06:47	07:19
	16:52	20 08:09 (MT 19)	17:30	18:04	19:38	20:11	20:36	20:36	20:05	19:15	18:24	16:43	16:30
14	07:27	07:48 (MT 19)	06:59	06:16	06:24	05:43	05:25	05:37	06:07	06:39	07:11	06:48	07:20
	16:53	21 08:09 (MT 19)	17:31	18:05	19:39	20:12	20:37	20:35	20:04	19:14	18:22	16:42	16:30
15	07:26	07:48 (MT 19)	06:58	06:14	06:22	05:42	05:25	05:38	06:08	06:40	07:12	06:49	07:21
	16:54	22 08:10 (MT 19)	17:33	18:06	19:41	20:13	20:37	20:35	20:02	19:12	18:21	16:41	16:30
16	07:26	07:47 (MT 19)	06:56	06:13	06:21	05:41	05:25	05:39	06:09	06:41	07:13	06:50	07:21
	16:55	23 08:10 (MT 19)	17:34	18:07	19:42	20:14	20:37	20:34	20:01	19:10	18:19	16:40	16:30
17	07:25	07:47 (MT 19)	06:55	06:11	06:19	05:40	05:25	05:40	06:10	06:42	07:14	06:51	07:22
	16:56	23 08:10 (MT 19)	17:35	18:08	19:43	20:15	20:38	20:33	19:59	19:08	18:18	16:39	16:30
18	07:25	07:47 (MT 19)	06:54	06:09	06:17	05:39	05:25	05:40	06:11	06:43	07:15	06:53	07:23
	16:57	23 08:10 (MT 19)	17:36	18:10	19:44	20:16	20:38	20:33	19:58	19:07	18:16	16:38	16:30
19	07:24	07:48 (MT 19)	06:52	06:07	06:16	05:38	05:25	05:41	06:12	06:44	07:16	06:54	07:23
	16:59	23 08:11 (MT 19)	17:38	18:11	19:45	20:17	20:38	20:32	19:56	19:05	18:15	16:38	16:30
20	07:24	07:48 (MT 19)	06:51	06:06	06:14	05:37	05:25	05:42	06:13	06:45	07:18	06:55	07:24
	17:00	22 08:10 (MT 19)	17:39	18:12	19:46	20:18	20:39	20:31	19:55	19:03	18:13	16:37	16:30
21	07:23	07:49 (MT 19)	06:49	06:04	06:13	05:36	05:25	05:43	06:14	06:46	07:19	06:56	07:24
	17:01	21 08:10 (MT 19)	17:40	18:13	19:47	20:19	20:39	20:30	19:53	19:01	18:12	16:36	16:30
22	07:23	07:50 (MT 19)	06:48	06:02	06:11	05:35	05:26	05:44	06:15	06:47	07:20	06:57	07:25
	17:02	20 08:10 (MT 19)	17:41	18:14	19:48	20:20	20:39	20:30	19:52	19:00	18:10	16:35	16:30
23	07:22	07:51 (MT 19)	06:46	06:01	06:10	05:34	05:26	05:45	06:16	06:48	07:21	06:59	07:25
	17:03	19 08:10 (MT 19)	17:43	18:15	19:49	20:21	20:39	20:29	19:50	18:58	18:09	16:35	16:30
24	07:21	07:52 (MT 19)	06:45	05:59	06:08	05:34	05:26	05:46	06:17	06:49	07:22	07:00	07:26
	17:05	17 08:09 (MT 19)	17:44	18:16	19:50	20:22	20:40	20:28	19:49	18:56	18:07	16:34	16:30
25	07:20	07:53 (MT 19)	06:43	05:57	06:07	05:33	05:26	05:47	06:18	06:50	08:23	07:01	07:26
	17:06	14 08:07 (MT 19)	17:45	18:17	19:52	20:23	20:40	20:27	19:47	18:54	17:06	16:34	16:30
26	07:20	07:55 (MT 19)	06:42	05:56	06:05	05:32	05:27	05:48	06:19	06:51	08:25	07:02	07:27
	17:07	11 08:06 (MT 19)	17:46	18:19	19:53	20:24	20:40	20:26	19:46	18:53	17:04	16:33	16:30
27	07:19	07:59 (MT 19)	06:40	05:54	06:04	05:31	05:27	05:49	06:20	06:52	08:26	07:03	07:27
	17:08	3 08:02 (MT 19)	17:47	18:20	19:54	20:24	20:40	20:25	19:44	18:51	17:03	16:33	16:30
28	07:18		06:39	05:52	06:02	05:31	05:28	05:50	06:21	06:53	08:27	07:04	07:27
	17:10		17:49	18:21	19:55	20:25	20:40	20:24	19:42	18:49	17:02	16:32	16:30
29	07:17		06:50	06:01	06:10	05:30	05:28	05:51	06:22	06:54	08:28	07:05	07:28
	17:11		19:22	19:56	20:26	20:40	20:23	19:41	18:48	17:00	16:32	20 07:49 (MT 19)	16:37
30	07:16		06:49	06:00	06:10	05:30	05:28	05:51	06:23	06:55	08:29	07:07	07:28
	17:12		19:23	19:57	20:27	20:40	20:22	19:39	18:46	16:59	16:31	19 07:50 (MT 19)	16:38
31	07:15		06:47	06:03	06:13	05:31	05:29	05:52	06:24	06:31	08:30	07:08	07:28
	17:13		19:24	19:58	20:28	20:40	20:21	19:37	18:48	16:58	16:32	22 07:49 (MT 19)	16:36
Potential sun hours	295		296	369	400	450	455	462	429	375	344	296	285
Total, worst case	460											302	318
Sun reduction	0,44											0,41	0,36
Oper. time red.	0,70											0,70	0,70
Wind dir. red.	0,67											0,67	0,67
Total reduction	0,21											0,19	0,17
Total, real	96											58	54

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: R64 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	
1	07:28	07:51 (MT 19)	07:14	06:37	06:45	05:58	05:29
	16:40	8 07:59 (MT 19)	17:15	17:50	19:25	19:58	20:29
2	07:28	07:51 (MT 19)	07:13	06:36	06:44	05:57	05:28
	16:41	9 08:00 (MT 19)	17:16	17:51	19:26	19:59	20:29
3	07:28	07:51 (MT 19)	07:12	06:34	06:42	05:56	05:28
	16:42	10 08:01 (MT 19)	17:17	17:52	19:27	20:00	20:30
4	07:29	07:51 (MT 19)	07:11	06:32	06:40	05:54	05:27
	16:42	10 08:01 (MT 19)	17:19	17:53	19:28	20:01	20:31
5	07:29	07:51 (MT 19)	07:10	06:31	06:39	05:53	05:27
	16:43	11 08:02 (MT 19)	17:20	17:55	19:30	20:02	20:31
6	07:28	07:51 (MT 19)	07:09	06:29	06:37	05:52	05:27
	16:44	12 08:03 (MT 19)	17:21	17:56	19:31	20:04	20:32
7	07:28	07:51 (MT 19)	07:08	06:28	06:35	05:51	05:26
	16:45	13 08:04 (MT 19)	17:22	17:57	19:32	20:05	20:33
8	07:28	07:51 (MT 19)	07:07	06:26	06:34	05:49	05:26
	16:46	14 08:05 (MT 19)	17:24	17:58	19:33	20:06	20:33
9	07:28	07:50 (MT 19)	07:05	06:24	06:32	05:48	05:26
	16:47	15 08:05 (MT 19)	17:25	17:59	19:34	20:07	20:34
10	07:28	07:50 (MT 19)	07:04	06:23	06:30	05:47	05:26
	16:48	15 08:05 (MT 19)	17:26	18:00	19:35	20:08	20:35
11	07:28	07:50 (MT 19)	07:03	06:21	06:29	05:46	05:25
	16:49	16 08:06 (MT 19)	17:28	18:02	19:36	20:09	20:35
12	07:27	07:49 (MT 19)	07:02	06:19	06:27	05:45	05:25
	16:50	17 08:06 (MT 19)	17:29	18:03	19:37	20:10	20:36
13	07:27	07:49 (MT 19)	07:00	06:18	06:25	05:44	05:25
	16:52	18 08:07 (MT 19)	17:30	18:04	19:38	20:11	20:36
14	07:27	07:48 (MT 19)	06:59	06:16	06:24	05:43	05:25
	16:53	19 08:07 (MT 19)	17:31	18:05	19:39	20:12	20:37
15	07:26	07:48 (MT 19)	06:58	06:14	06:22	05:42	05:25
	16:54	20 08:08 (MT 19)	17:33	18:06	19:41	20:13	20:37
16	07:26	07:47 (MT 19)	06:56	06:13	06:21	05:41	05:25
	16:55	20 08:07 (MT 19)	17:34	18:07	19:42	20:14	20:37
17	07:25	07:47 (MT 19)	06:55	06:11	06:19	05:40	05:25
	16:56	21 08:08 (MT 19)	17:35	18:08	19:43	20:15	20:38
18	07:25	07:46 (MT 19)	06:54	06:09	06:17	05:39	05:25
	16:57	22 08:08 (MT 19)	17:36	18:10	19:44	20:16	20:38
19	07:24	07:47 (MT 19)	06:52	06:08	06:16	05:38	05:25
	16:59	22 08:09 (MT 19)	17:38	18:11	19:45	20:17	20:39
20	07:24	07:48 (MT 19)	06:51	06:06	06:14	05:37	05:25
	17:00	20 08:08 (MT 19)	17:39	18:12	19:46	20:18	20:39
21	07:23	07:48 (MT 19)	06:49	06:04	06:13	05:36	05:25
	17:01	20 08:08 (MT 19)	17:40	18:13	19:47	20:19	20:39
22	07:23	07:50 (MT 19)	06:48	06:02	06:11	05:35	05:26
	17:02	18 08:08 (MT 19)	17:41	18:14	19:48	20:20	20:39
23	07:22	07:51 (MT 19)	06:46	06:01	06:10	05:34	05:26
	17:03	16 08:07 (MT 19)	17:43	18:15	19:49	20:21	20:39
24	07:21	07:52 (MT 19)	06:45	05:59	06:08	05:34	05:26
	17:05	14 08:06 (MT 19)	17:44	18:16	19:50	20:22	20:40
25	07:20	07:54 (MT 19)	06:43	05:57	06:07	05:33	05:26
	17:06	10 08:04 (MT 19)	17:45	18:17	19:52	20:23	20:40
26	07:20	07:56 (MT 19)	06:42	05:56	06:05	05:32	05:27
	17:07	6 08:02 (MT 19)	17:46	18:19	19:53	20:24	20:40
27	07:19		06:40	05:54	06:04	05:31	05:27
	17:08		17:47	18:20	19:54	20:24	20:40
28	07:18		06:39	05:52	06:02	05:31	05:28
	17:10		17:49	18:21	19:55	20:25	20:40
29	07:17			06:50	06:01	05:30	05:28
	17:11			19:22	19:56	20:26	20:40
30	07:16			06:49	06:00	05:30	05:28
	17:12			19:23	19:57	20:27	20:40
31	07:15			06:47		05:29	
	17:13			19:24		20:28	
Potential sun hours	295	296	369	400	450	455	
Total, worst case	396						149
Sun reduction	0,44						0,54
Oper. time red.	0,70						0,70
Wind dir. red.	0,67						0,56
Total reduction	0,21						0,21
Total, real	83						32

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: R64 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31
2	05:29 20:40	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30
4	05:30 20:39	05:56 20:17	06:28 19:31	07:00 18:39	06:36 16:53	07:11 16:30
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30
6	05:32 20:39	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:14 16:30
8	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:16 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	05:36 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	07:19 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	07:20 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:21 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	05:40 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	07:23 16:31
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:32
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:25 16:33
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	07:25 16:33
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	07:23 17:06	07:01 16:34	07:26 16:35
26	05:48 20:26	06:19 19:46	06:51 18:53	07:25 17:04	07:02 16:33	07:27 16:35
27	05:49 20:25	06:20 19:44	06:52 18:51	07:26 17:03	07:03 16:33	07:27 16:36
28	05:50 20:24	06:21 19:42	06:53 18:49	07:27 17:02	07:04 16:32	07:28 16:36
29	05:51 20:23	06:22 19:41	06:54 18:48	07:28 17:00	07:05 16:32	07:28 16:37
30	05:51 20:22	06:23 19:39	06:55 18:46	07:29 16:59	07:07 16:31	07:28 16:38
31	05:52 20:21	06:24 19:37	06:56 18:45	07:30 16:58	07:08 16:30	07:28 16:39
Potential sun hours	462	429	375	344	296	285
Total, worst case					263	240
Sun reduction					0,41	0,36
Oper. time red.					0,70	0,70
Wind dir. red.					0,67	0,67
Total reduction					0,19	0,17
Total, real					50	41

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: R65 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (38)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	08:21 (MT 19) 15:08 (MT 16)	07:14 17:15	14:28 (MT 16) 06:37	06:45 17:50	05:58 19:25
2	07:28 16:41	08:22 (MT 19) 15:08 (MT 16)	07:13 17:16	14:29 (MT 16) 06:36	06:44 17:51	05:57 19:26
3	07:28 16:41	08:23 (MT 19) 15:09 (MT 16)	07:12 17:17	14:32 (MT 16) 06:34	06:42 17:52	05:56 19:27
4	07:28 16:42	08:25 (MT 19) 15:09 (MT 16)	07:11 17:19	14:36 (MT 16) 06:32	06:40 17:53	05:54 19:28
5	07:28 16:43	08:26 (MT 19) 15:10 (MT 16)	07:10 17:20	14:41 (MT 16) 06:31	06:38 17:55	05:53 19:30
6	07:28 16:44	08:28 (MT 19) 15:10 (MT 16)	07:09 17:21	14:54 (MT 16) 06:29	06:37 17:56	05:52 19:31
7	07:28 16:45	08:30 (MT 19) 15:11 (MT 16)	07:08 17:22	15:03 (MT 16) 06:28	06:35 17:57	05:51 19:32
8	07:28 16:46	08:33 (MT 19) 15:11 (MT 16)	07:07 17:24	15:11 (MT 16) 06:26	06:33 17:58	05:49 19:33
9	07:28 16:47	14:03 (MT 16) 15:11 (MT 16)	07:05 17:25	15:11 (MT 16) 06:24	06:32 17:59	05:48 19:34
10	07:28 16:48	14:04 (MT 16) 15:11 (MT 16)	07:04 17:26	15:11 (MT 16) 06:23	06:30 18:00	05:47 19:35
11	07:28 16:49	14:05 (MT 16) 15:12 (MT 16)	07:03 17:28	15:11 (MT 16) 06:21	06:29 18:02	05:46 19:36
12	07:27 16:50	14:05 (MT 16) 15:12 (MT 16)	07:02 17:29	15:12 (MT 16) 06:19	06:27 18:03	05:45 19:37
13	07:27 16:52	14:06 (MT 16) 15:12 (MT 16)	07:00 17:30	15:12 (MT 16) 06:18	06:25 18:04	05:44 19:38
14	07:27 16:53	14:06 (MT 16) 15:12 (MT 16)	06:59 17:31	15:12 (MT 16) 06:16	06:24 18:05	05:43 19:39
15	07:26 16:54	14:07 (MT 16) 15:12 (MT 16)	06:58 17:33	15:12 (MT 16) 06:14	06:22 18:06	05:42 19:41
16	07:26 16:55	14:07 (MT 16) 15:12 (MT 16)	06:56 17:34	14:07 (MT 16) 06:13	06:20 18:07	05:41 19:42
17	07:25 16:56	14:09 (MT 16) 15:13 (MT 16)	06:55 17:35	14:09 (MT 16) 06:11	06:19 18:08	05:40 19:43
18	07:25 16:57	14:09 (MT 16) 15:12 (MT 16)	06:54 17:36	14:09 (MT 16) 06:09	06:17 18:09	05:39 19:44
19	07:24 16:59	14:11 (MT 16) 15:13 (MT 16)	06:52 17:38	14:11 (MT 16) 06:07	06:16 18:11	05:38 19:45
20	07:24 17:00	14:11 (MT 16) 15:12 (MT 16)	06:51 17:39	14:11 (MT 16) 06:06	06:14 18:12	05:37 19:46
21	07:23 17:01	14:12 (MT 16) 15:12 (MT 16)	06:49 17:40	14:12 (MT 16) 06:04	06:13 18:13	05:36 19:47
22	07:22 17:02	14:13 (MT 16) 15:12 (MT 16)	06:48 17:41	14:13 (MT 16) 06:02	06:11 18:14	05:35 19:48
23	07:22 17:03	14:14 (MT 16) 15:12 (MT 16)	06:46 17:43	14:14 (MT 16) 06:01	06:10 18:15	05:34 19:49
24	07:21 17:05	14:15 (MT 16) 15:11 (MT 16)	06:45 17:44	14:15 (MT 16) 05:59	06:08 18:16	05:34 19:50
25	07:20 17:06	14:16 (MT 16) 15:11 (MT 16)	06:43 17:45	14:16 (MT 16) 05:57	06:07 18:17	05:33 19:52
26	07:20 17:07	14:17 (MT 16) 15:10 (MT 16)	06:42 17:46	14:17 (MT 16) 05:55	06:05 18:18	05:32 19:53
27	07:19 17:08	14:18 (MT 16) 15:09 (MT 16)	06:40 17:47	14:18 (MT 16) 05:54	06:04 18:20	05:31 19:54
28	07:18 17:10	14:21 (MT 16) 15:10 (MT 16)	06:39 17:49	14:21 (MT 16) 05:52	06:02 18:21	05:31 19:55
29	07:17 17:11	14:22 (MT 16) 15:09 (MT 16)	06:38 17:50	14:22 (MT 16) 05:50	06:01 19:22	05:30 19:56
30	07:16 17:12	14:24 (MT 16) 15:08 (MT 16)	06:37 17:51	14:24 (MT 16) 05:49	06:00 19:23	05:30 19:57
31	07:15 17:13	14:26 (MT 16) 15:07 (MT 16)	06:36 17:52	14:26 (MT 16) 05:47	05:59 19:24	05:29 19:58
Potential sun hours	295	296	369	400	450	455
Total, worst case	2025	135				
Sun reduction	0,44	0,46				
Oper. time red.	0,70	0,70				
Wind dir. red.	0,59	0,58				
Total reduction	0,18	0,19				
Total, real	368	25				

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: R65 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (38)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December	
1	05:29	05:53	06:25	06:56	06:32	07:08	13:47 (MT 16)
	20:40	20:20	19:36	18:44	16:56	16:31	67 14:54 (MT 16)
2	05:29	05:54	06:26	06:58	06:33	07:09	13:47 (MT 16)
	20:39	20:19	19:34	18:42	16:55	16:31	67 14:54 (MT 16)
3	05:30	05:55	06:27	06:59	06:34	07:10	13:47 (MT 16)
	20:39	20:18	19:32	18:41	16:54	16:30	68 14:55 (MT 16)
4	05:30	05:56	06:28	07:00	06:35	07:11	08:17 (MT 19)
	20:39	20:17	19:31	18:39	16:52	16:30	73 14:55 (MT 16)
5	05:31	05:57	06:29	07:01	06:37	07:12	08:15 (MT 19)
	20:39	20:15	19:29	18:37	16:51	16:30	78 14:56 (MT 16)
6	05:32	05:58	06:30	07:02	06:38	14:10 (MT 16)	07:13 08:14 (MT 19)
	20:39	20:14	19:27	18:36	16:50	14 14:24 (MT 16)	81 14:56 (MT 16)
7	05:32	05:59	06:31	07:03	06:39	14:06 (MT 16)	07:14 08:13 (MT 19)
	20:38	20:13	19:26	18:34	16:49	23 14:29 (MT 16)	85 14:57 (MT 16)
8	05:33	06:01	06:33	07:04	06:40	14:03 (MT 16)	07:15 08:13 (MT 19)
	20:38	20:12	19:24	18:32	16:48	29 14:32 (MT 16)	85 14:57 (MT 16)
9	05:34	06:02	06:34	07:05	06:42	14:00 (MT 16)	07:16 08:13 (MT 19)
	20:38	20:10	19:22	18:31	16:47	34 14:34 (MT 16)	87 14:58 (MT 16)
10	05:34	06:03	06:35	07:06	06:43	13:59 (MT 16)	07:16 08:12 (MT 19)
	20:37	20:09	19:21	18:29	16:46	37 14:36 (MT 16)	90 14:58 (MT 16)
11	05:35	06:04	06:36	07:07	06:44	13:56 (MT 16)	07:17 08:11 (MT 19)
	20:37	20:08	19:19	18:27	16:45	42 14:38 (MT 16)	91 14:58 (MT 16)
12	05:36	06:05	06:37	07:08	06:45	13:55 (MT 16)	07:18 08:12 (MT 19)
	20:36	20:06	19:17	18:26	16:44	44 14:39 (MT 16)	91 14:59 (MT 16)
13	05:36	06:06	06:38	07:10	06:47	13:53 (MT 16)	07:19 08:12 (MT 19)
	20:36	20:05	19:15	18:24	16:43	47 14:40 (MT 16)	92 14:59 (MT 16)
14	05:37	06:07	06:39	07:11	06:48	13:52 (MT 16)	07:20 08:12 (MT 19)
	20:35	20:04	19:14	18:22	16:42	50 14:42 (MT 16)	93 15:00 (MT 16)
15	05:38	06:08	06:40	07:12	06:49	13:51 (MT 16)	07:20 08:13 (MT 19)
	20:35	20:02	19:12	18:21	16:41	51 14:42 (MT 16)	93 15:01 (MT 16)
16	05:39	06:09	06:41	07:13	06:50	13:50 (MT 16)	07:21 08:12 (MT 19)
	20:34	20:01	19:10	18:19	16:40	53 14:43 (MT 16)	94 15:00 (MT 16)
17	05:40	06:10	06:42	07:14	06:51	13:50 (MT 16)	07:22 08:13 (MT 19)
	20:33	19:59	19:08	18:18	16:39	55 14:45 (MT 16)	94 15:01 (MT 16)
18	05:40	06:11	06:43	07:15	06:53	13:49 (MT 16)	07:23 08:13 (MT 19)
	20:33	19:58	19:07	18:16	16:38	56 14:45 (MT 16)	94 15:01 (MT 16)
19	05:41	06:12	06:44	07:16	06:54	13:48 (MT 16)	07:23 08:13 (MT 19)
	20:32	19:56	19:05	18:15	16:38	58 14:46 (MT 16)	95 15:02 (MT 16)
20	05:42	06:13	06:45	07:18	06:55	13:48 (MT 16)	07:24 08:14 (MT 19)
	20:31	19:55	19:03	18:13	16:37	59 14:47 (MT 16)	95 15:03 (MT 16)
21	05:43	06:14	06:46	07:19	06:56	13:48 (MT 16)	07:24 08:14 (MT 19)
	20:30	19:53	19:01	18:12	16:36	60 14:48 (MT 16)	95 15:03 (MT 16)
22	05:44	06:15	06:47	07:20	06:57	13:47 (MT 16)	07:25 08:15 (MT 19)
	20:30	19:52	19:00	18:10	16:35	61 14:48 (MT 16)	95 15:04 (MT 16)
23	05:45	06:16	06:48	07:21	06:59	13:47 (MT 16)	07:25 08:15 (MT 19)
	20:29	19:50	18:58	18:09	16:35	62 14:49 (MT 16)	95 15:04 (MT 16)
24	05:46	06:17	06:49	07:22	07:00	13:47 (MT 16)	07:26 08:15 (MT 19)
	20:28	19:49	18:56	18:07	16:34	63 14:50 (MT 16)	95 15:04 (MT 16)
25	05:47	06:18	06:50	06:23	07:01	13:47 (MT 16)	07:26 08:16 (MT 19)
	20:27	19:47	18:54	17:06	16:34	64 14:51 (MT 16)	95 15:05 (MT 16)
26	05:48	06:19	06:51	06:25	07:02	13:46 (MT 16)	07:27 08:17 (MT 19)
	20:26	19:45	18:53	17:04	16:33	65 14:51 (MT 16)	94 15:05 (MT 16)
27	05:49	06:20	06:52	06:26	07:03	13:46 (MT 16)	07:27 08:17 (MT 19)
	20:25	19:44	18:51	17:03	16:33	65 14:51 (MT 16)	94 15:05 (MT 16)
28	05:50	06:21	06:53	06:27	07:04	13:46 (MT 16)	07:27 08:19 (MT 19)
	20:24	19:42	18:49	17:02	16:32	66 14:52 (MT 16)	94 15:07 (MT 16)
29	05:50	06:22	06:54	06:28	07:05	13:46 (MT 16)	07:28 08:19 (MT 19)
	20:23	19:41	18:47	17:00	16:32	66 14:52 (MT 16)	93 15:07 (MT 16)
30	05:51	06:23	06:55	06:29	07:07	13:47 (MT 16)	07:28 08:20 (MT 19)
	20:22	19:39	18:46	16:59	16:31	67 14:54 (MT 16)	92 15:07 (MT 16)
31	05:52	06:24		06:31			07:28 08:20 (MT 19)
	20:21	19:37		16:58			92 15:07 (MT 16)
Potential sun hours	462	429	375	344	296	285	
Total, worst case					1291		2747
Sun reduction					0,41		0,36
Oper. time red.					0,70		0,70
Wind dir. red.					0,58		0,60
Total reduction					0,17		0,15
Total, real					213		420

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: R66 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (39)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28	14:59 (MT 16)	07:14	15:15 (MT 16)	06:37	06:45	05:58	05:29				
	16:40	47	15:46 (MT 16)	17:15	39	15:54 (MT 16)	17:50	19:25	19:58	20:28		
2	07:28	15:00 (MT 16)	07:13	15:15 (MT 16)	06:36	06:44	05:57	05:28				
	16:41	47	15:47 (MT 16)	17:16	38	15:53 (MT 16)	17:51	19:26	19:59	20:29		
3	07:28	15:00 (MT 16)	07:12	15:16 (MT 16)	06:34	06:42	05:56	05:28				
	16:41	48	15:48 (MT 16)	17:17	36	15:52 (MT 16)	17:52	19:27	20:00	20:30		
4	07:28	15:00 (MT 16)	07:11	15:18 (MT 16)	06:32	06:40	05:54	05:27				
	16:42	48	15:48 (MT 16)	17:19	33	15:51 (MT 16)	17:53	19:28	20:01	20:31		
5	07:28	15:01 (MT 16)	07:10	15:20 (MT 16)	06:31	06:38	05:53	05:27				
	16:43	48	15:49 (MT 16)	17:20	30	15:50 (MT 16)	17:55	19:30	20:02	20:31		
6	07:28	15:01 (MT 16)	07:09	15:22 (MT 16)	06:29	06:37	05:52	05:26				
	16:44	49	15:50 (MT 16)	17:21	26	15:48 (MT 16)	17:56	19:31	20:04	20:32		
7	07:28	15:01 (MT 16)	07:08	15:25 (MT 16)	06:28	06:35	05:51	05:26				
	16:45	50	15:51 (MT 16)	17:22	21	15:46 (MT 16)	17:57	19:32	20:05	20:33		
8	07:28	15:02 (MT 16)	07:07	15:29 (MT 16)	06:26	06:33	05:49	05:26				
	16:46	49	15:51 (MT 16)	17:24	14	15:43 (MT 16)	17:58	19:33	20:06	20:33		
9	07:28	15:01 (MT 16)	07:05		06:24	06:32	05:48	05:26				
	16:47	50	15:51 (MT 16)	17:25		17:59	19:34	20:07	20:34			
10	07:28	15:02 (MT 16)	07:04		06:23	06:30	05:47	05:25				
	16:48	50	15:52 (MT 16)	17:26		18:00	19:35	20:08	20:35			
11	07:28	15:03 (MT 16)	07:03		06:21	06:29	05:46	05:25				
	16:49	50	15:53 (MT 16)	17:28		18:02	19:36	20:09	20:35			
12	07:27	15:02 (MT 16)	07:02		06:19	06:27	05:45	05:25				
	16:50	51	15:53 (MT 16)	17:29		18:03	19:37	20:10	20:36			
13	07:27	15:03 (MT 16)	07:00		06:18	06:25	05:44	05:25				
	16:52	51	15:54 (MT 16)	17:30		18:04	19:38	20:11	20:36			
14	07:27	15:03 (MT 16)	06:59		06:16	06:24	05:43	05:25				
	16:53	50	15:53 (MT 16)	17:31		18:05	19:39	20:12	20:37			
15	07:26	15:04 (MT 16)	06:58		06:14	06:22	05:42	05:25				
	16:54	50	15:54 (MT 16)	17:33		18:06	19:41	20:13	20:37			
16	07:26	15:03 (MT 16)	06:56		06:13	06:20	05:41	05:25				
	16:55	51	15:54 (MT 16)	17:34		18:07	19:42	20:14	20:37			
17	07:25	15:04 (MT 16)	06:55		06:11	06:19	05:40	05:25				
	16:56	51	15:55 (MT 16)	17:35		18:08	19:43	20:15	20:38			
18	07:25	15:04 (MT 16)	06:54		06:09	06:17	05:39	05:25				
	16:57	51	15:55 (MT 16)	17:36		18:10	19:44	20:16	20:38			
19	07:24	15:05 (MT 16)	06:52		06:07	06:16	05:38	05:25				
	16:58	51	15:56 (MT 16)	17:38		18:11	19:45	20:17	20:38			
20	07:24	15:05 (MT 16)	06:51		06:06	06:14	05:37	05:25				
	17:00	51	15:56 (MT 16)	17:39		18:12	19:46	20:18	20:39			
21	07:23	15:06 (MT 16)	06:49		06:04	06:13	05:36	05:25				
	17:01	50	15:56 (MT 16)	17:40		18:13	19:47	20:19	20:39			
22	07:22	15:07 (MT 16)	06:48		06:02	06:11	05:35	05:26				
	17:02	50	15:57 (MT 16)	17:41		18:14	19:48	20:20	20:39			
23	07:22	15:07 (MT 16)	06:46		06:01	06:10	05:34	05:26				
	17:03	50	15:57 (MT 16)	17:43		18:15	19:49	20:21	20:39			
24	07:21	15:07 (MT 16)	06:45		05:59	06:08	05:34	05:26				
	17:05	49	15:56 (MT 16)	17:44		18:16	19:50	20:22	20:40			
25	07:20	15:08 (MT 16)	06:43		05:57	06:07	05:33	05:26				
	17:06	48	15:56 (MT 16)	17:45		18:17	19:52	20:23	20:40			
26	07:20	15:08 (MT 16)	06:42		05:55	06:05	05:32	05:27				
	17:07	48	15:56 (MT 16)	17:46		18:18	19:53	20:23	20:40			
27	07:19	15:09 (MT 16)	06:40		05:54	06:04	05:31	05:27				
	17:08	47	15:56 (MT 16)	17:47		18:20	19:54	20:24	20:40			
28	07:18	15:10 (MT 16)	06:39		05:52	06:02	05:31	05:27				
	17:10	45	15:55 (MT 16)	17:49		18:21	19:55	20:25	20:40			
29	07:17	15:12 (MT 16)			06:50	06:01	05:30	05:28				
	17:11	44	15:56 (MT 16)			19:22	19:56	20:26	20:40			
30	07:16	15:12 (MT 16)			06:49	06:00	05:30	05:28				
	17:12	44	15:56 (MT 16)			19:23	19:57	20:27	20:40			
31	07:15	15:13 (MT 16)			06:47		05:29					
	17:13	42	15:55 (MT 16)			19:24	20:28					
Potential sun hours	295		296		369		400		450		455	
Total, worst case	1510		237									
Sun reduction	0,44		0,46									
Oper. time red.	0,70		0,70									
Wind dir. red.	0,54		0,54									
Total reduction	0,17		0,17									
Total, real	251		41									

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: R66 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (39)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31
2	05:29 20:39	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	14:57 (MT 16) 07:10 16:30
4	05:30 20:39	05:56 20:17	06:28 19:31	07:00 18:39	06:35 16:52	14:55 (MT 16) 07:11 16:30
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	14:52 (MT 16) 07:12 16:30
6	05:32 20:39	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	14:50 (MT 16) 07:13 16:30
7	05:32 20:38	05:59 20:13	06:31 19:26	07:03 18:34	06:39 16:49	14:49 (MT 16) 07:14 16:30
8	05:33 20:38	06:00 20:12	06:33 19:24	07:04 18:32	06:40 16:48	14:47 (MT 16) 07:15 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	14:46 (MT 16) 07:16 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	14:45 (MT 16) 07:16 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	14:44 (MT 16) 07:17 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	14:43 (MT 16) 07:18 16:30
13	05:36 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	14:42 (MT 16) 07:19 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	14:43 (MT 16) 07:20 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	14:42 (MT 16) 07:20 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	14:41 (MT 16) 07:21 16:31
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	14:42 (MT 16) 07:22 16:31
18	05:40 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	14:41 (MT 16) 07:23 16:31
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:37	14:41 (MT 16) 07:23 16:31
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	14:42 (MT 16) 07:24 16:32
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	14:42 (MT 16) 07:24 16:32
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	14:41 (MT 16) 07:25 16:33
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	14:41 (MT 16) 07:25 16:33
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	14:41 (MT 16) 07:26 16:34
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	14:42 (MT 16) 07:26 16:34
26	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:04	07:02 16:33	14:42 (MT 16) 07:27 16:35
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	14:43 (MT 16) 07:27 16:36
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	14:43 (MT 16) 07:27 16:36
29	05:50 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:32	14:43 (MT 16) 07:28 16:37
30	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	14:44 (MT 16) 07:28 16:38
31	05:52 20:21	06:24 19:37	06:56 16:57	06:31 16:57		07:28 16:39 15:46 (MT 16)
Potential sun hours	462	429	375	344	296	285
Total, worst case					1214	1459
Sun reduction					0,41	0,36
Oper. time red.					0,70	0,70
Wind dir. red.					0,54	0,54
Total reduction					0,15	0,14
Total, real					185	199

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: R67 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

January		February		March		April		May		June	
1	07:28	15:10 (MT 16)	07:14	06:37	06:45			05:58		18:19 (MT 22)	05:29
	16:40	38 15:48 (MT 16)	17:15	17:50	19:25			19:58	52	19:11 (MT 22)	20:28
2	07:28	15:11 (MT 16)	07:13	06:36	06:44			05:57		18:19 (MT 22)	05:28
	16:41	37 15:48 (MT 16)	17:16	17:51	19:26			19:59	53	19:12 (MT 22)	20:29
3	07:28	15:11 (MT 16)	07:12	06:34	06:42			05:56		18:18 (MT 22)	05:28
	16:41	38 15:49 (MT 16)	17:17	17:52	19:27			20:00	53	19:11 (MT 22)	20:30
4	07:28	15:12 (MT 16)	07:11	06:32	06:40			05:54		18:19 (MT 22)	05:27
	16:42	37 15:49 (MT 16)	17:19	17:53	19:28			20:01	52	19:11 (MT 22)	20:31
5	07:28	15:12 (MT 16)	07:10	06:31	06:38			05:53		18:19 (MT 22)	05:27
	16:43	37 15:49 (MT 16)	17:20	17:55	19:30			20:02	52	19:11 (MT 22)	20:31
6	07:28	15:13 (MT 16)	07:09	06:29	06:37			05:52		18:19 (MT 22)	05:26
	16:44	37 15:50 (MT 16)	17:21	17:56	19:31			20:04	52	19:11 (MT 22)	20:32
7	07:28	15:14 (MT 16)	07:08	06:28	06:35			05:51		18:19 (MT 22)	05:26
	16:45	36 15:50 (MT 16)	17:22	17:57	19:32			20:05	52	19:11 (MT 22)	20:33
8	07:28	15:14 (MT 16)	07:07	06:26	06:33			05:49		18:19 (MT 22)	05:26
	16:46	37 15:51 (MT 16)	17:24	17:58	19:33			20:06	51	19:10 (MT 22)	20:33
9	07:28	15:14 (MT 16)	07:05	06:24	06:32			05:48		18:19 (MT 22)	05:26
	16:47	36 15:50 (MT 16)	17:25	17:59	19:34			20:07	51	19:10 (MT 22)	20:34
10	07:28	15:15 (MT 16)	07:04	06:23	06:30			05:47		18:20 (MT 22)	05:25
	16:48	36 15:51 (MT 16)	17:26	18:00	19:35			20:08	49	19:09 (MT 22)	20:35
11	07:28	15:16 (MT 16)	07:03	06:21	06:29			05:46		18:20 (MT 22)	05:25
	16:49	35 15:51 (MT 16)	17:28	18:02	19:36			20:09	49	19:09 (MT 22)	20:35
12	07:27	15:16 (MT 16)	07:02	06:19	06:27			05:45		18:21 (MT 22)	05:25
	16:50	35 15:51 (MT 16)	17:29	18:03	19:37			20:10	48	19:09 (MT 22)	20:36
13	07:27	15:18 (MT 16)	07:00	06:18	06:25			05:44		18:21 (MT 22)	05:25
	16:52	33 15:51 (MT 16)	17:30	18:04	19:38			20:11	47	19:08 (MT 22)	20:36
14	07:27	15:18 (MT 16)	06:59	06:16	06:24		18:44 (MT 22)	05:43		18:22 (MT 22)	05:25
	16:53	33 15:51 (MT 16)	17:31	18:05	19:39	8	18:52 (MT 22)	20:12	46	19:08 (MT 22)	20:37
15	07:26	15:19 (MT 16)	06:58	06:14	06:22		18:38 (MT 22)	05:42		18:22 (MT 22)	05:25
	16:54	32 15:51 (MT 16)	17:33	18:06	19:41	20	18:58 (MT 22)	20:13	45	19:07 (MT 22)	20:37
16	07:26	15:20 (MT 16)	06:56	06:13	06:20		18:35 (MT 22)	05:41		18:23 (MT 22)	05:25
	16:55	30 15:50 (MT 16)	17:34	18:07	19:42	25	19:00 (MT 22)	20:14	43	19:06 (MT 22)	20:37
17	07:25	15:21 (MT 16)	06:55	06:11	06:19		18:33 (MT 22)	05:40		18:23 (MT 22)	05:25
	16:56	30 15:51 (MT 16)	17:35	18:08	19:43	30	19:03 (MT 22)	20:15	43	19:06 (MT 22)	20:38
18	07:25	15:22 (MT 16)	06:54	06:09	06:17		18:30 (MT 22)	05:39		18:24 (MT 22)	05:25
	16:57	28 15:50 (MT 16)	17:36	18:10	19:44	34	19:04 (MT 22)	20:16	41	19:05 (MT 22)	20:38
19	07:24	15:24 (MT 16)	06:52	06:07	06:16		18:29 (MT 22)	05:38		18:26 (MT 22)	05:25
	16:58	26 15:50 (MT 16)	17:38	18:11	19:45	37	19:06 (MT 22)	20:17	39	19:05 (MT 22)	20:38
20	07:24	15:25 (MT 16)	06:51	06:06	06:14		18:27 (MT 22)	05:37		18:26 (MT 22)	05:25
	17:00	24 15:49 (MT 16)	17:39	18:12	19:46	39	19:06 (MT 22)	20:18	38	19:04 (MT 22)	20:39
21	07:23	15:26 (MT 16)	06:49	06:04	06:13		18:26 (MT 22)	05:36		18:27 (MT 22)	05:25
	17:01	22 15:48 (MT 16)	17:40	18:13	19:47	42	19:08 (MT 22)	20:19	36	19:03 (MT 22)	20:39
22	07:22	15:29 (MT 16)	06:48	06:02	06:11		18:24 (MT 22)	05:35		18:28 (MT 22)	05:26
	17:02	18 15:47 (MT 16)	17:41	18:14	19:48	44	19:08 (MT 22)	20:20	34	19:02 (MT 22)	20:39
23	07:22	15:31 (MT 16)	06:46	06:01	06:10		18:24 (MT 22)	05:34		18:28 (MT 22)	05:26
	17:03	14 15:45 (MT 16)	17:43	18:15	19:49	45	19:09 (MT 22)	20:21	33	19:01 (MT 22)	20:39
24	07:21	15:34 (MT 16)	06:45	05:59	06:08		18:22 (MT 22)	05:34		18:30 (MT 22)	05:26
	17:05	8 15:42 (MT 16)	17:44	18:16	19:50	47	19:09 (MT 22)	20:22	31	19:01 (MT 22)	20:40
25	07:20		06:43	05:57	06:07		18:22 (MT 22)	05:33		18:31 (MT 22)	05:26
	17:06		17:45	18:17	19:52	48	19:10 (MT 22)	20:23	29	19:00 (MT 22)	20:40
26	07:20		06:42	05:55	06:05		18:21 (MT 22)	05:32		18:32 (MT 22)	05:27
	17:07		17:46	18:18	19:53	50	19:11 (MT 22)	20:23	26	18:58 (MT 22)	20:40
27	07:19		06:40	05:54	06:04		18:20 (MT 22)	05:31		18:34 (MT 22)	05:27
	17:08		17:47	18:20	19:54	50	19:10 (MT 22)	20:24	24	18:58 (MT 22)	20:40
28	07:18		06:39	05:52	06:02		18:20 (MT 22)	05:31		18:35 (MT 22)	05:27
	17:10		17:49	18:21	19:55	51	19:11 (MT 22)	20:25	21	18:56 (MT 22)	20:40
29	07:17			06:50	06:01		18:19 (MT 22)	05:30		18:37 (MT 22)	05:28
	17:11			19:22	19:56	52	19:11 (MT 22)	20:26	18	18:55 (MT 22)	20:40
30	07:16			06:49	06:00		18:19 (MT 22)	05:30		18:39 (MT 22)	05:28
	17:12			19:23	19:57	52	19:11 (MT 22)	20:27	14	18:53 (MT 22)	20:40
31	07:15			06:47				05:29		18:42 (MT 22)	
	17:13			19:24				20:28	9	18:51 (MT 22)	
Potential sun hours	295		296	369	400			450			455
Total, worst case	737				674			1231			
Sun reduction	0,44				0,48			0,47			
Oper. time red.	0,70				0,70			0,70			
Wind dir. red.	0,53				0,63			0,63			
Total reduction	0,16				0,21			0,20			
Total, real	120				141			250			

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: R67 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

July		August		September		October		November		December		
1	05:29	05:53	18:31 (MT 22)	06:25	06:56	06:32		07:08		14:58 (MT 16)		
	20:40	20:20	48 19:19 (MT 22)	19:36	18:44	16:56		16:31	35	15:33 (MT 16)		
2	05:29	05:54	18:30 (MT 22)	06:26	06:57	06:33		07:09		14:58 (MT 16)		
	20:39	20:19	50 19:20 (MT 22)	19:34	18:42	16:55		16:31	36	15:34 (MT 16)		
3	05:30	05:55	18:30 (MT 22)	06:27	06:59	06:34		07:10		14:58 (MT 16)		
	20:39	20:18	50 19:20 (MT 22)	19:32	18:41	16:54		16:30	36	15:34 (MT 16)		
4	05:30	05:56	18:30 (MT 22)	06:28	07:00	06:35		07:11		14:59 (MT 16)		
	20:39	20:16	50 19:20 (MT 22)	19:31	18:39	16:52		16:30	36	15:35 (MT 16)		
5	05:31	05:57	18:29 (MT 22)	06:29	07:01	06:37		07:12		14:59 (MT 16)		
	20:39	20:15	51 19:20 (MT 22)	19:29	18:37	16:51		16:30	36	15:35 (MT 16)		
6	05:32	05:58	18:29 (MT 22)	06:30	07:02	06:38		07:13		14:59 (MT 16)		
	20:39	20:14	52 19:21 (MT 22)	19:27	18:36	16:50		16:30	37	15:36 (MT 16)		
7	05:32	05:59	18:29 (MT 22)	06:31	07:03	06:39		07:14		14:59 (MT 16)		
	20:38	20:13	52 19:21 (MT 22)	19:26	18:34	16:49		16:30	37	15:36 (MT 16)		
8	05:33	06:00	18:28 (MT 22)	06:33	07:04	06:40		07:15		15:00 (MT 16)		
	20:38	20:12	53 19:21 (MT 22)	19:24	18:32	16:48		16:30	37	15:37 (MT 16)		
9	05:33	06:01	18:28 (MT 22)	06:34	07:05	06:42		07:16		15:00 (MT 16)		
	20:38	20:10	53 19:21 (MT 22)	19:22	18:31	16:47		16:30	38	15:38 (MT 16)		
10	05:34	06:03	18:28 (MT 22)	06:35	07:06	06:43		07:16		15:01 (MT 16)		
	20:37	20:09	52 19:20 (MT 22)	19:20	18:29	16:46		16:30	37	15:38 (MT 16)		
11	05:35	06:04	18:28 (MT 22)	06:36	07:07	06:44		07:17		15:00 (MT 16)		
	20:37	20:08	52 19:20 (MT 22)	19:19	18:27	16:45		16:30	38	15:38 (MT 16)		
12	05:36	18:52 (MT 22)	06:05	18:28 (MT 22)	06:37	07:08	06:45	07:18		15:01 (MT 16)		
	20:36	5 18:57 (MT 22)	20:06	52 19:20 (MT 22)	19:17	18:26	16:44	16:30	37	15:38 (MT 16)		
13	05:36	18:48 (MT 22)	06:06	18:28 (MT 22)	06:38	07:10	06:47	07:19		15:01 (MT 16)		
	20:36	12 19:00 (MT 22)	20:05	52 19:20 (MT 22)	19:15	18:24	16:43	16:30	38	15:39 (MT 16)		
14	05:37	18:47 (MT 22)	06:07	18:28 (MT 22)	06:39	07:11	06:48	07:20		15:02 (MT 16)		
	20:35	16 19:03 (MT 22)	20:04	51 19:19 (MT 22)	19:14	18:22	16:42	16:30	38	15:40 (MT 16)		
15	05:38	18:45 (MT 22)	06:08	18:28 (MT 22)	06:40	07:12	06:49	07:20		15:03 (MT 16)		
	20:35	20 19:05 (MT 22)	20:02	51 19:19 (MT 22)	19:12	18:21	16:41	16:30	38	15:41 (MT 16)		
16	05:39	18:44 (MT 22)	06:09	18:28 (MT 22)	06:41	07:13	06:50	07:21		15:02 (MT 16)		
	20:34	23 19:07 (MT 22)	20:01	50 19:18 (MT 22)	19:10	18:19	16:40	16:30	38	15:40 (MT 16)		
17	05:40	18:42 (MT 22)	06:10	18:28 (MT 22)	06:42	07:14	06:51	07:22		15:03 (MT 16)		
	20:33	25 19:07 (MT 22)	19:59	49 19:17 (MT 22)	19:08	18:18	16:39	16:31	38	15:41 (MT 16)		
18	05:40	18:41 (MT 22)	06:11	18:29 (MT 22)	06:43	07:15	06:53	15:08 (MT 16)	07:23	15:03 (MT 16)		
	20:33	28 19:09 (MT 22)	19:58	48 19:17 (MT 22)	19:07	18:16	16:38	8 15:16 (MT 16)	16:31	38 15:41 (MT 16)		
19	05:41	18:40 (MT 22)	06:12	18:29 (MT 22)	06:44	07:16	06:54	15:05 (MT 16)	07:23	15:04 (MT 16)		
	20:32	30 19:10 (MT 22)	19:56	47 19:16 (MT 22)	19:05	18:15	16:37	14 15:19 (MT 16)	16:31	38 15:42 (MT 16)		
20	05:42	18:39 (MT 22)	06:13	18:29 (MT 22)	06:45	07:18	06:55	15:04 (MT 16)	07:24	15:05 (MT 16)		
	20:31	32 19:11 (MT 22)	19:55	46 19:15 (MT 22)	19:03	18:13	16:37	18 15:22 (MT 16)	16:32	38 15:43 (MT 16)		
21	05:43	18:39 (MT 22)	06:14	18:30 (MT 22)	06:46	07:19	06:56	15:02 (MT 16)	07:24	15:05 (MT 16)		
	20:30	33 19:12 (MT 22)	19:53	44 19:14 (MT 22)	19:01	18:12	16:36	22 15:24 (MT 16)	16:32	38 15:43 (MT 16)		
22	05:44	18:38 (MT 22)	06:15	18:30 (MT 22)	06:47	07:20	06:57	15:01 (MT 16)	07:25	15:06 (MT 16)		
	20:30	35 19:13 (MT 22)	19:52	41 19:11 (MT 22)	19:00	18:10	16:35	24 15:25 (MT 16)	16:33	38 15:44 (MT 16)		
23	05:45	18:37 (MT 22)	06:16	18:31 (MT 22)	06:48	07:21	06:59	15:00 (MT 16)	07:25	15:06 (MT 16)		
	20:29	37 19:14 (MT 22)	19:50	39 19:10 (MT 22)	18:58	18:09	16:35	26 15:26 (MT 16)	16:33	38 15:44 (MT 16)		
24	05:46	18:35 (MT 22)	06:17	18:32 (MT 22)	06:49	07:22	07:00	14:59 (MT 16)	07:26	15:06 (MT 16)		
	20:28	39 19:14 (MT 22)	19:49	36 19:08 (MT 22)	18:56	18:07	16:34	28 15:27 (MT 16)	16:34	38 15:44 (MT 16)		
25	05:47	18:35 (MT 22)	06:18	18:33 (MT 22)	06:50	06:23	07:01	14:59 (MT 16)	07:26	15:07 (MT 16)		
	20:27	40 19:15 (MT 22)	19:47	34 19:07 (MT 22)	18:54	17:06	16:34	30 15:29 (MT 16)	16:34	38 15:45 (MT 16)		
26	05:48	18:34 (MT 22)	06:19	18:35 (MT 22)	06:51	06:25	07:02	14:59 (MT 16)	07:27	15:07 (MT 16)		
	20:26	42 19:16 (MT 22)	19:45	29 19:04 (MT 22)	18:53	17:04	16:33	30 15:29 (MT 16)	16:35	38 15:45 (MT 16)		
27	05:49	18:34 (MT 22)	06:20	18:37 (MT 22)	06:52	06:26	07:03	14:58 (MT 16)	07:27	15:07 (MT 16)		
	20:25	43 19:17 (MT 22)	19:44	25 19:02 (MT 22)	18:51	17:03	16:33	32 15:30 (MT 16)	16:36	38 15:45 (MT 16)		
28	05:49	18:33 (MT 22)	06:21	18:40 (MT 22)	06:53	06:27	07:04	14:58 (MT 16)	07:27	15:09 (MT 16)		
	20:24	44 19:17 (MT 22)	19:42	18 18:58 (MT 22)	18:49	17:01	16:32	33 15:31 (MT 16)	16:36	37 15:46 (MT 16)		
29	05:50	18:32 (MT 22)	06:22	18:45 (MT 22)	06:54	06:28	07:05	14:58 (MT 16)	07:28	15:09 (MT 16)		
	20:23	46 19:18 (MT 22)	19:41	7 18:52 (MT 22)	18:47	17:00	16:32	33 15:31 (MT 16)	16:37	38 15:47 (MT 16)		
30	05:51	18:32 (MT 22)	06:23		06:55	06:29	07:07	14:58 (MT 16)	07:28	15:09 (MT 16)		
	20:22	46 19:18 (MT 22)	19:39		18:46	16:59	16:31	35 15:33 (MT 16)	16:38	38 15:47 (MT 16)		
31	05:52	18:31 (MT 22)	06:24			06:31		07:28		15:10 (MT 16)		
	20:21	48 19:19 (MT 22)	19:37			16:57		16:39	37	15:47 (MT 16)		
Potential sun hours	462		429		375		344		296		285	
Total, worst case	644		1282				333				1160	
Sun reduction	0,61		0,67				0,41				0,36	
Oper. time red.	0,70		0,70				0,70				0,70	
Wind dir. red.	0,63		0,63				0,53				0,53	
Total reduction	0,26		0,29				0,15				0,13	
Total, real	170		373				50				156	

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: R7 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June		
1	07:28	07:14	07:36 (67)	06:37	07:37 (MT 02)	06:45	05:58	
	16:40	17:15	71 15:52 (MT 01)	17:50	95 15:37 (MT 01)	19:25	19:58	
2	07:28	07:13	07:37 (67)	06:36	07:38 (MT 02)	06:44	05:57	
	16:41	17:16	71 15:53 (MT 01)	17:51	79 15:30 (MT 01)	19:26	19:59	
3	07:28	07:12	07:38 (67)	06:34	07:37 (MT 02)	06:42	05:56	
	16:42	17:17	84 15:53 (MT 01)	17:52	76 08:53 (MT 02)	19:27	20:00	
4	07:28	07:11	07:39 (67)	06:32	07:38 (MT 02)	06:40	05:55	
	16:43	17:19	93 15:54 (MT 01)	17:54	75 08:53 (MT 02)	19:28	20:01	
5	07:28	07:10	07:40 (67)	06:31	07:37 (MT 02)	06:39	05:53	
	16:44	17:20	99 15:55 (MT 01)	17:55	75 08:52 (MT 02)	19:30	20:02	
6	07:28	07:09	07:43 (67)	06:29	07:37 (MT 02)	06:37	05:52	
	16:45	17:21	99 15:55 (MT 01)	17:56	74 08:51 (MT 02)	19:31	20:03	
7	07:28	07:08	07:58 (MT 02)	06:28	07:38 (MT 02)	06:35	05:51	
	16:45	17:23	99 15:56 (MT 01)	17:57	73 08:51 (MT 02)	19:32	20:04	
8	07:28	07:06	07:55 (MT 02)	06:26	07:38 (MT 02)	06:34	05:50	
	16:46	17:24	103 15:55 (MT 01)	17:58	71 08:49 (MT 02)	19:33	20:06	
9	07:28	07:05	07:54 (MT 02)	06:24	07:37 (MT 02)	06:32	05:48	
	16:48	17:25	107 15:56 (MT 01)	17:59	71 08:48 (MT 02)	19:34	20:07	
10	07:28	07:04	07:52 (MT 02)	06:23	07:38 (MT 02)	06:30	05:47	
	16:49	17:26	111 15:56 (MT 01)	18:01	70 08:48 (MT 02)	19:35	20:08	
11	07:27	07:03	07:51 (MT 02)	06:21	07:38 (MT 02)	06:29	05:46	
	16:50	17:28	113 15:56 (MT 01)	18:02	69 08:47 (MT 02)	19:36	20:09	
12	07:27	07:02	07:49 (MT 02)	06:19	07:38 (MT 02)	06:27	05:45	
	16:51	17:29	116 15:56 (MT 01)	18:03	67 08:45 (MT 02)	19:37	20:10	
13	07:27	07:00	07:48 (MT 02)	06:18	07:40 (MT 02)	06:25	05:44	
	16:52	17:30	118 15:56 (MT 01)	18:04	64 08:44 (MT 02)	19:38	20:11	
14	07:27	06:59	07:47 (MT 02)	06:16	07:40 (MT 02)	06:24	05:43	
	16:53	7 15:23 (MT 01)	17:32	119 15:56 (MT 01)	18:05	63 08:43 (MT 02)	19:39	20:12
15	07:26	06:58	07:46 (MT 02)	06:14	07:40 (MT 02)	06:22	05:42	
	16:54	15 15:28 (MT 01)	17:33	120 15:55 (MT 01)	18:06	61 08:41 (MT 02)	19:40	20:13
16	07:26	06:56	07:45 (MT 02)	06:13	07:41 (MT 02)	06:21	05:41	
	16:55	21 15:31 (MT 01)	17:34	121 15:55 (MT 01)	18:07	58 08:39 (MT 02)	19:42	20:14
17	07:25	06:55	07:45 (MT 02)	06:11	07:42 (MT 02)	06:19	05:40	
	16:56	24 15:33 (MT 01)	17:35	121 15:55 (MT 01)	18:08	56 08:38 (MT 02)	19:43	20:15
18	07:25	06:54	07:43 (MT 02)	06:09	07:43 (MT 02)	06:17	05:39	
	16:58	28 15:35 (MT 01)	17:37	122 15:54 (MT 01)	18:10	53 08:36 (MT 02)	19:44	20:16
19	07:24	06:52	07:43 (MT 02)	06:07	07:44 (MT 02)	06:16	05:38	
	16:59	32 15:37 (MT 01)	17:38	122 15:54 (MT 01)	18:11	49 08:33 (MT 02)	19:45	20:17
20	07:24	06:51	07:42 (MT 02)	06:06	07:46 (MT 02)	06:14	05:37	
	17:00	34 15:39 (MT 01)	17:39	122 15:53 (MT 01)	18:12	46 08:32 (MT 02)	19:46	20:18
21	07:23	06:49	07:42 (MT 02)	06:04	07:47 (MT 02)	06:13	05:36	
	17:01	36 15:40 (MT 01)	17:40	120 15:52 (MT 01)	18:13	42 08:29 (MT 02)	19:47	20:19
22	07:22	06:48	07:40 (MT 02)	06:02	07:49 (MT 02)	06:11	05:35	
	17:02	39 15:41 (MT 01)	17:41	121 15:51 (MT 01)	18:14	37 08:26 (MT 02)	19:48	20:20
23	07:22	06:46	07:40 (MT 02)	06:01	07:51 (MT 02)	06:10	05:35	
	17:04	42 15:44 (MT 01)	17:43	119 15:50 (MT 01)	18:15	31 08:22 (MT 02)	19:49	20:21
24	07:21	06:45	07:39 (MT 02)	05:59	07:54 (MT 02)	06:08	05:34	
	17:05	48 15:45 (MT 01)	17:44	117 15:48 (MT 01)	18:16	25 08:19 (MT 02)	19:50	20:22
25	07:20	06:43	07:39 (MT 02)	05:57	07:59 (MT 02)	06:07	05:33	
	17:06	52 15:46 (MT 01)	17:45	114 15:47 (MT 01)	18:17	14 08:13 (MT 02)	19:51	20:22
26	07:19	06:42	07:39 (MT 02)	05:56	07:59 (MT 02)	06:05	05:32	
	17:07	56 15:47 (MT 01)	17:46	110 15:45 (MT 01)	18:18	19:53	20:23	
27	07:19	06:40	07:39 (MT 02)	05:54	07:59 (MT 02)	06:04	05:32	
	17:09	60 15:48 (MT 01)	17:48	107 15:44 (MT 01)	18:20	19:54	20:24	
28	07:18	06:39	07:38 (MT 02)	05:52	07:59 (MT 02)	06:03	05:31	
	17:10	64 15:49 (MT 01)	17:49	102 15:41 (MT 01)	18:21	19:55	20:25	
29	07:17	06:37	07:37 (MT 02)	05:50	07:59 (MT 02)	06:01	05:30	
	17:11	67 15:50 (MT 01)	17:50	99 15:42 (MT 01)	18:22	19:56	20:26	
30	07:16	06:36	07:36 (MT 02)	05:49	07:59 (MT 02)	06:00	05:30	
	17:12	69 15:50 (MT 01)	17:51	97 15:42 (MT 01)	18:23	19:57	20:27	
31	07:15	06:36	07:36 (MT 02)	05:47	07:59 (MT 02)	05:59	05:29	
	17:14	70 15:51 (MT 01)	17:52	95 15:43 (MT 01)	18:24	20:28	20:28	
Potential sun hours	295	296	369	400	450	455		
Total, worst case	764	3041	1494		460	1367		
Sun reduction	0,44	0,46	0,44		0,47	0,54		
Oper. time red.	0,70	0,70	0,70		0,70	0,70		
Wind dir. red.	0,56	0,61	0,66		0,66	0,66		
Total reduction	0,17	0,19	0,20		0,21	0,25		
Total, real	131	588	304		98	339		

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: R7 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December				
1	05:29	19:12 (MT 04)	05:54	06:25	06:56	08:18 (MT 02)	06:32	07:22 (MT 02)	07:07	
	20:39	46 19:58 (MT 04)	20:20	19:36	18:44	66 09:24 (MT 02)	16:56	110 15:26 (MT 01)	16:31	
2	05:30	19:13 (MT 04)	05:55	06:26	06:58	08:17 (MT 02)	06:33	07:24 (MT 02)	07:09	
	20:39	46 19:59 (MT 04)	20:19	19:34	18:42	68 09:25 (MT 02)	16:55	106 15:25 (MT 01)	16:31	
3	05:30	19:13 (MT 04)	05:56	06:27	06:59	08:16 (MT 02)	06:34	07:25 (MT 02)	07:10	
	20:39	45 19:58 (MT 04)	20:18	19:32	18:41	69 09:25 (MT 02)	16:54	102 15:25 (MT 01)	16:31	
4	05:31	19:14 (MT 04)	05:57	06:29	07:00	08:15 (MT 02)	06:35	07:28 (MT 02)	07:11	
	20:39	45 19:59 (MT 04)	20:16	19:31	18:39	71 09:26 (MT 02)	16:53	98 15:25 (MT 01)	16:30	
5	05:31	19:13 (MT 04)	05:58	06:30	07:01	08:14 (MT 02)	06:37	07:12 (67)	07:12	
	20:39	45 19:58 (MT 04)	20:15	19:29	18:37	72 09:26 (MT 02)	16:51	100 15:25 (MT 01)	16:30	
6	05:32	19:14 (MT 04)	05:59	06:31	07:02	08:14 (MT 02)	06:38	07:10 (67)	07:13	
	20:38	45 19:59 (MT 04)	20:14	19:27	18:36	72 09:26 (MT 02)	16:50	98 15:24 (MT 01)	16:30	
7	05:32	19:14 (MT 04)	06:00	06:32	07:03	08:13 (MT 02)	06:39	07:08 (67)	07:14	
	20:38	44 19:58 (MT 04)	20:13	19:26	18:34	73 09:26 (MT 02)	16:49	93 15:24 (MT 01)	16:30	
8	05:33	19:15 (MT 04)	06:01	06:33	07:04	08:12 (MT 02)	06:40	07:08 (67)	07:14	
	20:38	43 19:58 (MT 04)	20:11	19:24	18:32	74 09:26 (MT 02)	16:48	83 15:24 (MT 01)	16:30	
9	05:34	19:15 (MT 04)	06:02	06:34	07:05	08:13 (MT 02)	06:42	07:08 (67)	07:15	
	20:37	44 19:59 (MT 04)	20:10	19:22	18:31	74 09:27 (MT 02)	16:47	70 15:23 (MT 01)	16:30	
10	05:34	19:15 (MT 04)	06:03	06:35	07:06	08:12 (MT 02)	06:43	07:07 (67)	07:16	
	20:37	43 19:58 (MT 04)	20:09	19:21	18:29	75 09:27 (MT 02)	16:46	71 15:23 (MT 01)	16:30	
11	05:35	19:16 (MT 04)	06:04	06:36	07:07	08:12 (MT 02)	06:44	07:08 (67)	07:17	
	20:37	42 19:58 (MT 04)	20:08	19:19	18:27	75 09:27 (MT 02)	16:45	70 15:23 (MT 01)	16:30	
12	05:36	19:17 (MT 04)	06:05	06:37	07:08	08:11 (MT 02)	06:45	07:08 (67)	07:18	
	20:36	41 19:58 (MT 04)	20:06	19:17	18:26	89 16:08 (MT 01)	16:44	69 15:22 (MT 01)	16:30	
13	05:37	19:17 (MT 04)	06:06	06:38	07:10	08:11 (MT 02)	06:46	07:09 (67)	07:19	
	20:36	41 19:58 (MT 04)	20:05	19:15	18:24	97 16:12 (MT 01)	16:43	65 15:21 (MT 01)	16:30	
14	05:37	19:17 (MT 04)	06:07	06:39	07:11	08:11 (MT 02)	06:48	07:11 (67)	07:20	
	20:35	40 19:57 (MT 04)	20:03	19:14	18:22	103 16:14 (MT 01)	16:42	64 15:22 (MT 01)	16:30	
15	05:38	19:18 (MT 04)	06:08	06:40	07:12	08:10 (MT 02)	06:49	07:12 (67)	07:20	
	20:34	39 19:57 (MT 04)	20:02	19:12	18:21	109 16:16 (MT 01)	16:41	60 15:21 (MT 01)	16:31	
16	05:39	19:19 (MT 04)	06:09	06:41	07:13	08:11 (MT 02)	06:50	07:13 (67)	07:21	
	20:34	38 19:57 (MT 04)	20:01	19:10	18:19	112 16:18 (MT 01)	16:40	56 15:20 (MT 01)	16:31	
17	05:40	19:20 (MT 04)	06:10	06:42	07:14	08:11 (MT 02)	06:51	07:15 (67)	07:22	
	20:33	37 19:57 (MT 04)	19:59	19:08	18:18	115 16:19 (MT 01)	16:39	52 15:20 (MT 01)	16:31	
18	05:41	19:21 (MT 04)	06:11	06:43	07:15	08:11 (MT 02)	06:53	07:16 (67)	07:22	
	20:33	35 19:56 (MT 04)	19:58	19:07	11 08:48 (MT 02)	18:16	117 16:20 (MT 01)	16:38	48 15:19 (MT 01)	16:31
19	05:42	19:21 (MT 04)	06:12	06:44	07:16	08:41 (MT 02)	06:54	14:36 (MT 01)	07:23	
	20:32	34 19:55 (MT 04)	19:56	19:05	23 09:04 (MT 02)	18:15	119 16:21 (MT 01)	16:38	42 15:18 (MT 01)	16:32
20	05:42	19:22 (MT 04)	06:13	06:45	07:17	08:38 (MT 02)	06:55	14:37 (MT 01)	07:24	
	20:31	32 19:54 (MT 04)	19:55	19:03	30 09:08 (MT 02)	18:13	122 16:22 (MT 01)	16:37	39 15:16 (MT 01)	16:32
21	05:43	19:23 (MT 04)	06:14	06:46	07:19	08:35 (MT 02)	06:56	14:40 (MT 01)	07:24	
	20:30	30 19:53 (MT 04)	19:53	19:01	36 09:11 (MT 02)	18:12	122 16:23 (MT 01)	16:36	36 15:16 (MT 01)	16:33
22	05:44	19:24 (MT 04)	06:15	06:47	07:20	08:32 (MT 02)	06:57	14:41 (MT 01)	07:25	
	20:29	29 19:53 (MT 04)	19:52	19:00	41 09:13 (MT 02)	18:10	123 16:23 (MT 01)	16:36	34 15:15 (MT 01)	16:33
23	05:45	19:26 (MT 04)	06:16	06:48	07:21	08:30 (MT 02)	06:58	14:42 (MT 01)	07:25	
	20:29	25 19:51 (MT 04)	19:50	18:58	45 09:15 (MT 02)	18:09	123 16:24 (MT 01)	16:35	32 15:14 (MT 01)	16:34
24	05:46	19:27 (MT 04)	06:17	06:49	07:22	08:28 (MT 02)	07:00	14:44 (MT 01)	07:26	
	20:28	23 19:50 (MT 04)	19:49	18:56	48 09:16 (MT 02)	18:07	123 16:24 (MT 01)	16:34	28 15:12 (MT 01)	16:34
25	05:47	19:29 (MT 04)	06:18	06:50	07:23	08:26 (MT 02)	06:23	14:47 (MT 01)	07:26	
	20:27	19 19:48 (MT 04)	19:47	18:54	52 09:18 (MT 02)	17:06	122 15:25 (MT 01)	16:34	25 15:12 (MT 01)	16:35
26	05:48	19:31 (MT 04)	06:19	06:51	07:24	08:24 (MT 02)	06:25	14:49 (MT 01)	07:26	
	20:26	14 19:45 (MT 04)	19:45	18:53	55 09:19 (MT 02)	17:04	121 15:25 (MT 01)	16:33	21 15:10 (MT 01)	16:35
27	05:49	19:35 (MT 04)	06:20	06:52	07:25	08:23 (MT 02)	06:26	14:51 (MT 01)	07:27	
	20:25	6 19:41 (MT 04)	19:44	18:51	58 09:21 (MT 02)	17:03	120 15:25 (MT 01)	16:33	16 15:07 (MT 01)	16:36
28	05:50	19:39 (MT 04)	06:21	06:53	07:26	08:22 (MT 02)	06:27	14:55 (MT 01)	07:27	
	20:24	19:42	18:49	60 09:22 (MT 02)	17:02	120 15:25 (MT 01)	16:32	9 15:04 (MT 01)	16:37	
29	05:51	19:43 (MT 04)	06:22	06:54	07:27	08:21 (MT 02)	06:28	14:56 (MT 01)	07:27	
	20:23	19:41	18:48	62 09:23 (MT 02)	17:00	117 15:26 (MT 01)	16:32	16:37		
30	05:52	19:44 (MT 04)	06:23	06:55	07:28	08:19 (MT 02)	06:29	14:57 (MT 01)	07:28	
	20:22	19:39	18:46	65 09:24 (MT 02)	16:59	115 15:25 (MT 01)	16:32	16:38		
31	05:53	19:45 (MT 04)	06:24	06:56	07:29	08:18 (MT 02)	06:30	14:58 (MT 01)	07:28	
	20:21	19:37	18:45	59 09:25 (MT 02)	16:58	112 15:25 (MT 01)	16:31	16:39		
Potential sun hours	461	429	375	344	296	285				
Total, worst case	971		586	3090	1697					
Sun reduction	0,61		0,58	0,44	0,41					
Oper. time red.	0,70		0,70	0,70	0,70					
Wind dir. red.	0,66		0,67	0,63	0,58					
Total reduction	0,28		0,27	0,19	0,16					
Total, real	270		157	590	276					

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: R71 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40 16:41	07:14 17:15 51	08:15 (MT 21) 09:06 (MT 21) 17:50	06:37 69	08:03 (MT 21) 09:12 (MT 21) 19:25	06:45 19:58 13
2	07:28 16:41 16:41	07:13 17:16 53	08:14 (MT 21) 09:07 (MT 21) 17:51	06:36 68	08:04 (MT 21) 09:12 (MT 21) 19:26	06:44 19:59 19:59
3	07:29 16:41 16:41	07:12 17:17 56	08:12 (MT 21) 09:08 (MT 21) 17:52	06:34 66	08:04 (MT 21) 09:10 (MT 21) 19:27	06:42 19:27 20:00
4	07:29 16:42 16:42	07:11 17:19 58	08:11 (MT 21) 09:09 (MT 21) 17:53	06:32 65	08:05 (MT 21) 09:10 (MT 21) 19:28	06:40 19:28 20:01
5	07:29 16:43 16:43	07:10 17:20 60	08:10 (MT 21) 09:10 (MT 21) 17:55	06:31 63	08:05 (MT 21) 09:08 (MT 21) 19:30	07:05 (MT 23) 20:02 20:02
6	07:29 16:44 16:44	07:09 17:25 61	08:10 (MT 21) 09:11 (MT 21) 17:56	06:29 62	08:05 (MT 21) 09:07 (MT 21) 19:31	07:03 (MT 23) 20:04 20:04
7	07:28 16:45 16:45	07:08 17:22 64	08:09 (MT 21) 09:13 (MT 21) 17:57	06:28 59	08:07 (MT 21) 09:06 (MT 21) 19:32	07:00 (MT 23) 20:05 20:05
8	07:28 16:46 16:46	07:07 17:24 65	08:09 (MT 21) 09:14 (MT 21) 17:58	06:26 57	08:07 (MT 21) 09:04 (MT 21) 19:33	06:58 (MT 23) 20:06 20:06
9	07:28 16:47 16:47	07:05 17:25 67	08:07 (MT 21) 09:14 (MT 21) 17:59	06:24 54	08:08 (MT 21) 09:02 (MT 21) 19:34	06:57 (MT 23) 20:07 20:07
10	07:28 16:48 16:48	07:04 17:26 68	08:07 (MT 21) 09:15 (MT 21) 18:00	06:23 50	08:10 (MT 21) 09:00 (MT 21) 19:35	06:55 (MT 23) 20:08 20:08
11	07:28 16:49 16:49	07:03 17:28 70	08:06 (MT 21) 09:16 (MT 21) 18:02	06:21 48	08:10 (MT 21) 08:58 (MT 21) 19:36	06:53 (MT 23) 20:09 20:09
12	07:27 16:50 16:50	07:02 17:29 70	08:05 (MT 21) 09:15 (MT 21) 18:03	06:19 43	08:12 (MT 21) 08:55 (MT 21) 19:37	06:53 (MT 23) 20:10 20:10
13	07:27 16:52 16:52	07:00 17:30 71	08:05 (MT 21) 09:16 (MT 21) 18:04	06:18 39	08:14 (MT 21) 08:53 (MT 21) 19:38	06:52 (MT 23) 20:11 20:11
14	07:27 16:53 16:53	06:59 17:31 72	08:05 (MT 21) 09:17 (MT 21) 18:05	06:16 34	08:16 (MT 21) 08:50 (MT 21) 19:39	06:52 (MT 23) 20:12 20:12
15	07:26 16:54 16:54	06:58 17:33 73	08:04 (MT 21) 09:17 (MT 21) 18:06	06:14 28	08:18 (MT 21) 08:46 (MT 21) 19:41	06:51 (MT 23) 20:13 20:13
16	07:26 16:55 16:55	06:56 17:34 73	08:04 (MT 21) 09:17 (MT 21) 18:07	06:13 19	08:22 (MT 21) 08:41 (MT 21) 19:42	06:50 (MT 23) 20:14 20:14
17	07:25 16:56 16:56	06:55 17:35 74	08:04 (MT 21) 09:18 (MT 21) 18:08	06:11 19	08:22 (MT 21) 08:41 (MT 21) 19:43	06:50 (MT 23) 20:15 20:15
18	07:25 16:57 16:57	06:54 17:36 74	08:03 (MT 21) 09:17 (MT 21) 18:10	06:09 19	08:22 (MT 21) 08:41 (MT 21) 19:44	06:49 (MT 23) 20:16 20:16
19	07:24 16:58 16:58	06:52 17:38 75	08:03 (MT 21) 09:18 (MT 21) 18:11	06:07 19	08:22 (MT 21) 08:41 (MT 21) 19:45	06:50 (MT 23) 20:17 20:17
20	07:24 17:00 17:00	06:51 17:39 74	08:03 (MT 21) 09:17 (MT 21) 18:12	06:06 19	08:22 (MT 21) 08:41 (MT 21) 19:46	06:49 (MT 23) 20:18 20:18
21	07:23 17:01 17:01	06:49 17:40 74	08:03 (MT 21) 09:17 (MT 21) 18:13	06:04 19	08:22 (MT 21) 08:41 (MT 21) 19:47	06:50 (MT 23) 20:19 20:19
22	07:23 17:02 17:02	06:48 17:41 75	08:02 (MT 21) 09:17 (MT 21) 18:14	06:02 19	08:22 (MT 21) 08:41 (MT 21) 19:48	06:49 (MT 23) 20:20 20:20
23	07:22 17:03 17:03	06:46 17:43 74	08:03 (MT 21) 09:17 (MT 21) 18:15	06:01 19	08:22 (MT 21) 08:41 (MT 21) 19:49	06:50 (MT 23) 20:21 20:21
24	07:21 17:05 18	06:45 17:44 74	08:02 (MT 21) 09:16 (MT 21) 18:16	05:59 19	08:22 (MT 21) 08:41 (MT 21) 19:50	06:50 (MT 23) 20:22 20:22
25	07:20 17:06 25	06:43 17:45 73	08:03 (MT 21) 09:16 (MT 21) 18:17	05:57 19	08:22 (MT 21) 08:41 (MT 21) 19:51	06:51 (MT 23) 20:23 20:23
26	07:20 17:07 31	06:42 17:46 72	08:03 (MT 21) 09:15 (MT 21) 18:19	05:56 19	08:22 (MT 21) 08:41 (MT 21) 19:52	06:52 (MT 23) 20:24 20:24
27	07:19 17:08 35	06:40 17:47 72	08:03 (MT 21) 09:15 (MT 21) 18:20	05:54 19	08:22 (MT 21) 08:41 (MT 21) 19:53	06:53 (MT 23) 20:25 20:25
28	07:18 17:10 39	06:39 17:49 71	08:03 (MT 21) 09:14 (MT 21) 18:21	05:52 19	08:22 (MT 21) 08:41 (MT 21) 19:54	06:54 (MT 23) 20:26 20:26
29	07:17 17:11 42	06:37 17:50 71	08:03 (MT 21) 09:14 (MT 21) 18:22	05:51 19	08:22 (MT 21) 08:41 (MT 21) 19:55	06:55 (MT 23) 20:27 20:27
30	07:16 17:12 46	06:35 17:51 71	08:03 (MT 21) 09:14 (MT 21) 18:23	05:50 19	08:22 (MT 21) 08:41 (MT 21) 19:56	06:56 (MT 23) 20:28 20:28
31	07:15 17:13 48	06:33 17:52 71	08:03 (MT 21) 09:14 (MT 21) 18:24	05:49 19	08:22 (MT 21) 08:41 (MT 21) 19:57	06:57 (MT 23) 20:29 20:29
Potential sun hours	295	296	369	400	451	455
Total, worst case	290	1914	824	831	13	
Sun reduction	0,44	0,46	0,44	0,48	0,47	
Oper. time red.	0,70	0,70	0,70	0,70	0,70	
Wind dir. red.	0,67	0,67	0,67	0,60	0,60	
Total reduction	0,21	0,22	0,21	0,20	0,20	
Total, real	61	413	171	167	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: R71 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:52 (MT 23) 07:27 (MT 23)	06:56 18:44	08:52 (MT 21) 09:34 (MT 21)
2	05:29 20:40	05:54 20:19	06:26 19:34	06:53 (MT 23) 07:26 (MT 23)	06:58 18:42	08:50 (MT 21) 09:35 (MT 21)
3	05:30 20:39	05:55 20:18	06:27 19:32	06:54 (MT 23) 07:25 (MT 23)	06:59 18:41	08:48 (MT 21) 09:37 (MT 21)
4	05:30 20:39	05:56 20:17	06:28 19:31	06:55 (MT 23) 07:23 (MT 23)	07:00 18:39	08:46 (MT 21) 09:38 (MT 21)
5	05:31 20:39	05:57 20:15	06:29 19:29	06:56 (MT 23) 07:21 (MT 23)	07:01 18:37	08:44 (MT 21) 09:40 (MT 21)
6	05:32 20:39	05:58 20:14	06:30 19:27	06:58 (MT 23) 07:19 (MT 23)	07:02 18:36	08:43 (MT 21) 09:41 (MT 21)
7	05:32 20:38	05:59 20:13	06:32 19:26	07:00 (MT 23) 07:15 (MT 23)	07:03 18:34	08:41 (MT 21) 09:42 (MT 21)
8	05:33 20:38	06:01 20:12	06:33 19:24	07:06 (MT 23) 07:09 (MT 23)	07:04 18:32	08:41 (MT 21) 09:43 (MT 21)
9	05:34 20:38	06:02 20:10	06:34 19:22	07:09 (MT 23)	07:05 18:31	08:40 (MT 21) 09:44 (MT 21)
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 (MT 23)	07:06 18:29	08:39 (MT 21) 09:45 (MT 21)
11	05:35 20:37	06:04 20:08	06:36 19:19	07:13 (MT 23) 07:18 (MT 23)	07:07 18:27	08:38 (MT 21) 09:44 (MT 21)
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 (MT 23) 07:22 (MT 23)	06:37 18:26	08:37 (MT 21) 09:46 (MT 21)
13	05:36 20:36	06:06 20:05	06:38 19:15	07:05 (MT 23) 07:25 (MT 23)	06:38 18:24	08:36 (MT 21) 09:46 (MT 21)
14	05:37 20:35	06:07 20:04	06:39 19:14	07:03 (MT 23) 07:26 (MT 23)	06:39 18:22	08:35 (MT 21) 09:46 (MT 21)
15	05:38 20:35	06:08 20:02	06:40 19:12	07:02 (MT 23) 07:28 (MT 23)	06:40 18:21	08:36 (MT 21) 09:47 (MT 21)
16	05:39 20:34	06:09 20:01	06:41 19:10	07:00 (MT 23) 07:29 (MT 23)	06:41 18:19	08:35 (MT 21) 09:48 (MT 21)
17	05:40 20:33	06:10 19:59	06:42 19:08	06:59 (MT 23) 07:30 (MT 23)	06:42 18:18	08:34 (MT 21) 09:48 (MT 21)
18	05:40 20:33	06:11 19:58	06:43 19:07	06:58 (MT 23) 07:30 (MT 23)	06:43 18:16	08:34 (MT 21) 09:47 (MT 21)
19	05:41 20:32	06:12 19:56	06:44 19:05	06:57 (MT 23) 07:31 (MT 23)	06:44 18:15	08:33 (MT 21) 09:47 (MT 21)
20	05:42 20:31	06:13 19:55	06:45 19:03	06:56 (MT 23) 07:32 (MT 23)	06:45 18:13	08:34 (MT 21) 09:48 (MT 21)
21	05:43 20:31	06:14 19:53	06:46 19:01	06:55 (MT 23) 07:32 (MT 23)	06:46 18:12	08:34 (MT 21) 09:48 (MT 21)
22	05:44 20:30	06:15 19:52	06:47 19:00	06:55 (MT 23) 07:32 (MT 23)	06:47 18:10	08:33 (MT 21) 09:48 (MT 21)
23	05:45 20:29	06:16 19:50	06:48 18:58	06:54 (MT 23) 07:32 (MT 23)	06:48 18:09	08:33 (MT 21) 09:47 (MT 21)
24	05:46 20:28	06:17 19:49	06:49 18:56	06:54 (MT 23) 07:32 (MT 23)	06:49 18:07	08:34 (MT 21) 09:48 (MT 21)
25	05:47 20:27	06:18 19:47	06:50 18:54	06:53 (MT 23) 07:32 (MT 23)	06:50 17:06	07:34 (MT 21) 08:47 (MT 21)
26	05:48 20:26	06:19 19:46	06:51 18:53	06:52 (MT 23) 07:31 (MT 23)	06:51 17:04	07:34 (MT 21) 08:47 (MT 21)
27	05:49 20:25	06:20 19:44	06:52 18:51	06:52 (MT 23) 07:31 (MT 23)	06:52 17:03	07:34 (MT 21) 08:46 (MT 21)
28	05:50 20:24	06:21 19:42	06:53 18:49	06:52 (MT 23) 07:30 (MT 23)	06:53 17:02	07:35 (MT 21) 08:47 (MT 21)
29	05:50 20:23	06:22 19:41	06:54 18:48	06:52 (MT 23) 07:30 (MT 23)	06:54 17:00	07:35 (MT 21) 08:46 (MT 21)
30	05:51 20:22	06:23 19:39	06:55 18:46	06:52 (MT 23) 07:29 (MT 23)	06:55 16:59	07:35 (MT 21) 08:45 (MT 21)
31	05:52 20:21	06:24 19:37	06:56 18:45	06:52 (MT 23) 07:28 (MT 23)	06:56 16:58	07:35 (MT 21) 08:44 (MT 21)
Potential sun hours	462	429	375		344	296
Total, worst case			301		2068	889
Sun reduction		0,67	0,58		0,44	0,41
Oper. time red.		0,70	0,70		0,70	0,70
Wind dir. red.		0,60	0,62		0,67	0,67
Total reduction		0,28	0,25		0,21	0,19
Total, real		187	76		426	170

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

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

Shadow receptor: R72 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28	09:50 (MT 21)	07:14	06:37			06:45	05:58			05:29	06:16 (MT 20)
	16:40	45	10:35 (MT 21)	17:15	17:50		19:25	19:58			20:29	57 07:13 (MT 20)
2	07:28	09:51 (MT 21)	07:13	06:36		07:12 (MT 23)	06:44	05:57			05:28	06:16 (MT 20)
	16:41	44	10:35 (MT 21)	17:16	17:51	8	07:20 (MT 23)	19:26	19:59		20:29	58 07:14 (MT 20)
3	07:29	09:52 (MT 21)	07:12	06:34		07:06 (MT 23)	06:42	05:56			05:28	06:16 (MT 20)
	16:41	43	10:35 (MT 21)	17:17	17:52	18	07:24 (MT 23)	19:27	20:00		20:30	59 07:15 (MT 20)
4	07:29	09:53 (MT 21)	07:11	06:32		07:04 (MT 23)	06:40	05:54			05:27	06:15 (MT 20)
	16:42	42	10:35 (MT 21)	17:19	17:53	24	07:28 (MT 23)	19:28	20:01		20:31	60 07:15 (MT 20)
5	07:29	09:54 (MT 21)	07:10	06:31		07:01 (MT 23)	06:38	05:53			05:27	06:15 (MT 20)
	16:43	41	10:35 (MT 21)	17:20	17:55	28	07:29 (MT 23)	19:30	20:02		20:32	61 07:16 (MT 20)
6	07:29	09:56 (MT 21)	07:09	06:29		06:59 (MT 23)	06:37	05:52			05:26	06:16 (MT 20)
	16:44	39	10:35 (MT 21)	17:21	17:56	32	07:31 (MT 23)	19:31	20:04		20:32	61 07:17 (MT 20)
7	07:28	09:57 (MT 21)	07:08	06:28		06:58 (MT 23)	06:35	05:51			05:26	06:15 (MT 20)
	16:45	37	10:34 (MT 21)	17:22	17:57	34	07:32 (MT 23)	19:32	20:05		20:33	61 07:16 (MT 20)
8	07:28	09:59 (MT 21)	07:07	06:26		06:56 (MT 23)	06:33	05:49			05:26	06:15 (MT 20)
	16:46	35	10:34 (MT 21)	17:24	17:58	37	07:33 (MT 23)	19:33	20:06		20:33	62 07:17 (MT 20)
9	07:28	09:59 (MT 21)	07:05	06:24		06:54 (MT 23)	06:32	05:48			05:26	06:15 (MT 20)
	16:47	33	10:32 (MT 21)	17:25	17:59	39	07:33 (MT 23)	19:34	20:07		20:34	63 07:18 (MT 20)
10	07:28	10:01 (MT 21)	07:04	06:23		06:54 (MT 23)	06:30	05:47			05:25	06:15 (MT 20)
	16:48	31	10:32 (MT 21)	17:26	18:00	41	07:35 (MT 23)	19:35	20:08		20:35	63 07:18 (MT 20)
11	07:28	10:03 (MT 21)	07:03	06:21		06:53 (MT 23)	06:29	05:46			05:25	06:15 (MT 20)
	16:49	28	10:31 (MT 21)	17:28	18:02	42	07:35 (MT 23)	19:36	20:09		20:35	64 07:19 (MT 20)
12	07:27	10:05 (MT 21)	07:02	06:19		06:52 (MT 23)	06:27	05:45			05:25	06:15 (MT 20)
	16:50	23	10:28 (MT 21)	17:29	18:03	43	07:35 (MT 23)	19:37	20:10		20:36	64 07:19 (MT 20)
13	07:27	10:08 (MT 21)	07:00	06:18		06:52 (MT 23)	06:25	05:44			05:25	06:15 (MT 20)
	16:52	19	10:27 (MT 21)	17:30	18:04	43	07:35 (MT 23)	19:38	20:11		20:36	64 07:19 (MT 20)
14	07:27	10:11 (MT 21)	06:59	06:16		06:51 (MT 23)	06:24	05:43			05:25	06:16 (MT 20)
	16:53	12	10:23 (MT 21)	17:31	18:05	44	07:35 (MT 23)	19:39	20:12		20:37	64 07:20 (MT 20)
15	07:26		06:58	06:14		06:50 (MT 23)	06:22	05:42		06:39 (MT 20)	05:25	06:16 (MT 20)
	16:54		17:33	18:06	45	07:35 (MT 23)	19:41	20:13	9	06:48 (MT 20)	20:37	64 07:20 (MT 20)
16	07:26		06:56	06:13		06:49 (MT 23)	06:20	05:41		06:34 (MT 20)	05:25	06:16 (MT 20)
	16:55		17:34	18:07	45	07:34 (MT 23)	19:42	20:14	19	06:53 (MT 20)	20:38	64 07:20 (MT 20)
17	07:25		06:55	06:11		06:50 (MT 23)	06:19	05:40		06:31 (MT 20)	05:25	06:16 (MT 20)
	16:56		17:35	18:08	44	07:34 (MT 23)	19:43	20:15	25	06:56 (MT 20)	20:38	64 07:20 (MT 20)
18	07:25		06:54	06:09		06:49 (MT 23)	06:17	05:39		06:28 (MT 20)	05:25	06:16 (MT 20)
	16:57		17:36	18:10	45	07:34 (MT 23)	19:44	20:16	30	06:58 (MT 20)	20:38	65 07:21 (MT 20)
19	07:24		06:52	06:07		06:49 (MT 23)	06:16	05:38		06:27 (MT 20)	05:25	06:16 (MT 20)
	16:58		17:38	18:11	44	07:33 (MT 23)	19:45	20:17	34	07:01 (MT 20)	20:39	65 07:21 (MT 20)
20	07:24		06:51	06:06		06:50 (MT 23)	06:14	05:37		06:26 (MT 20)	05:25	06:16 (MT 20)
	17:00		17:39	18:12	43	07:33 (MT 23)	19:46	20:18	37	07:03 (MT 20)	20:39	65 07:21 (MT 20)
21	07:23		06:49	06:04		06:50 (MT 23)	06:13	05:36		06:24 (MT 20)	05:25	06:16 (MT 20)
	17:01		17:40	18:13	41	07:31 (MT 23)	19:47	20:19	40	07:04 (MT 20)	20:39	65 07:21 (MT 20)
22	07:23		06:48	06:02		06:50 (MT 23)	06:11	05:35		06:23 (MT 20)	05:26	06:16 (MT 20)
	17:02		17:41	18:14	40	07:30 (MT 23)	19:48	20:20	42	07:05 (MT 20)	20:39	65 07:21 (MT 20)
23	07:22		06:46	06:01		06:50 (MT 23)	06:10	05:34		06:21 (MT 20)	05:26	06:17 (MT 20)
	17:03		17:43	18:15	39	07:29 (MT 23)	19:49	20:21	45	07:06 (MT 20)	20:39	65 07:22 (MT 20)
24	07:21		06:45	05:59		06:51 (MT 23)	06:08	05:34		06:21 (MT 20)	05:26	06:17 (MT 20)
	17:05		17:44	18:16	37	07:28 (MT 23)	19:50	20:22	47	07:08 (MT 20)	20:40	65 07:22 (MT 20)
25	07:20		06:43	05:57		06:52 (MT 23)	06:07	05:33		06:20 (MT 20)	05:26	06:17 (MT 20)
	17:06		17:45	18:17	34	07:26 (MT 23)	19:52	20:23	48	07:08 (MT 20)	20:40	65 07:22 (MT 20)
26	07:20		06:42	05:55		06:53 (MT 23)	06:05	05:32		06:19 (MT 20)	05:27	06:18 (MT 20)
	17:07		17:46	18:19	31	07:24 (MT 23)	19:53	20:24	50	07:09 (MT 20)	20:40	64 07:22 (MT 20)
27	07:19		06:40	05:54		06:54 (MT 23)	06:04	05:31		06:19 (MT 20)	05:27	06:18 (MT 20)
	17:08		17:47	18:20	28	07:22 (MT 23)	19:54	20:24	51	07:10 (MT 20)	20:40	64 07:22 (MT 20)
28	07:18		06:39	05:52		06:56 (MT 23)	06:02	05:31		06:18 (MT 20)	05:27	06:18 (MT 20)
	17:10		17:49	18:21	24	07:20 (MT 23)	19:55	20:25	53	07:11 (MT 20)	20:40	64 07:22 (MT 20)
29	07:17			06:50		07:58 (MT 23)	06:01	05:30		06:18 (MT 20)	05:28	06:19 (MT 20)
	17:11			19:22	19	08:17 (MT 23)	19:56	20:26	54	07:12 (MT 20)	20:40	64 07:23 (MT 20)
30	07:16			06:49		08:02 (MT 23)	06:00	05:30		06:17 (MT 20)	05:28	06:18 (MT 20)
	17:12			19:23	9	08:11 (MT 23)	19:57	20:27	55	07:12 (MT 20)	20:40	64 07:22 (MT 20)
31	07:15			06:47				05:29		06:17 (MT 20)		
	17:13			19:24				20:28	56	07:13 (MT 20)		
Potential sun hours	295		296	369		400	451			455		
Total, worst case		472			1001			695			1893	
Sun reduction		0,44			0,44			0,47			0,54	
Oper. time red.		0,70			0,70			0,70			0,70	
Wind dir. red.		0,71			0,63			0,57			0,57	
Total reduction		0,22			0,20			0,19			0,22	
Total, real		105			198			130			409	

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: R72 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	06:19 (MT 20)	05:53	06:25	06:56	07:31 (MT 23)	06:32	07:08	09:45 (MT 21)			
	20:40	64 07:23 (MT 20)	20:20	19:36	18:44	43 08:14 (MT 23)	16:56	16:31	28 10:13 (MT 21)			
2	05:29	06:19 (MT 20)	05:54	06:26	06:58	07:31 (MT 23)	06:33	07:09	09:44 (MT 21)			
	20:40	63 07:22 (MT 20)	20:19	19:34	18:42	43 08:14 (MT 23)	16:55	16:31	30 10:14 (MT 21)			
3	05:30	06:20 (MT 20)	05:55	06:27	06:59	07:31 (MT 23)	06:34	07:10	09:43 (MT 21)			
	20:39	63 07:23 (MT 20)	20:18	19:32	18:41	42 08:13 (MT 23)	16:54	16:30	33 10:16 (MT 21)			
4	05:30	06:20 (MT 20)	05:56	06:28	07:00	07:32 (MT 23)	06:36	07:11	09:43 (MT 21)			
	20:39	62 07:22 (MT 20)	20:17	19:31	18:39	39 08:11 (MT 23)	16:52	16:30	35 10:18 (MT 21)			
5	05:31	06:21 (MT 20)	05:57	06:29	07:01	07:32 (MT 23)	06:37	07:12	09:42 (MT 21)			
	20:39	62 07:23 (MT 20)	20:15	19:29	18:37	38 08:10 (MT 23)	16:51	16:30	37 10:19 (MT 21)			
6	05:32	06:22 (MT 20)	05:58	06:30	07:02	07:33 (MT 23)	06:38	07:13	09:42 (MT 21)			
	20:39	61 07:23 (MT 20)	20:14	19:27	18:36	36 08:09 (MT 23)	16:50	16:30	39 10:21 (MT 21)			
7	05:32	06:21 (MT 20)	05:59	06:32	07:03	07:34 (MT 23)	06:39	07:14	09:41 (MT 21)			
	20:38	61 07:22 (MT 20)	20:13	19:26	18:34	33 08:07 (MT 23)	16:49	16:30	41 10:22 (MT 21)			
8	05:33	06:22 (MT 20)	06:00	06:33	07:04	07:36 (MT 23)	06:40	07:15	09:41 (MT 21)			
	20:38	60 07:22 (MT 20)	20:12	19:24	18:32	30 08:06 (MT 23)	16:48	16:30	42 10:23 (MT 21)			
9	05:34	06:23 (MT 20)	06:02	06:34	07:05	07:37 (MT 23)	06:42	07:16	09:41 (MT 21)			
	20:38	60 07:23 (MT 20)	20:10	19:22	18:31	27 08:04 (MT 23)	16:47	16:30	43 10:24 (MT 21)			
10	05:34	06:23 (MT 20)	06:03	06:35	07:06	07:39 (MT 23)	06:43	07:16	09:41 (MT 21)			
	20:37	59 07:22 (MT 20)	20:09	19:21	18:29	22 08:01 (MT 23)	16:46	16:30	44 10:25 (MT 21)			
11	05:35	06:24 (MT 20)	06:04	06:36	07:07	07:42 (MT 23)	06:44	07:17	09:40 (MT 21)			
	20:37	58 07:22 (MT 20)	20:08	19:19	18:27	15 07:57 (MT 23)	16:45	16:30	45 10:25 (MT 21)			
12	05:36	06:25 (MT 20)	06:05	06:37	07:08		06:45	07:18	09:41 (MT 21)			
	20:36	57 07:22 (MT 20)	20:06	19:17	18:26		16:44	16:30	45 10:26 (MT 21)			
13	05:36	06:25 (MT 20)	06:06	06:38	07:10	07:55 (MT 23)	06:47	07:19	09:41 (MT 21)			
	20:36	56 07:21 (MT 20)	20:05	19:15	18:24	6 08:01 (MT 23)	16:43	16:30	47 10:28 (MT 21)			
14	05:37	06:26 (MT 20)	06:07	06:39	07:11	07:49 (MT 23)	06:48	07:20	09:41 (MT 21)			
	20:35	55 07:21 (MT 20)	20:04	19:14	18:22	17 08:06 (MT 23)	16:42	16:30	48 10:29 (MT 21)			
15	05:38	06:27 (MT 20)	06:08	06:40	07:12	07:46 (MT 23)	06:49	07:21	09:42 (MT 21)			
	20:35	53 07:20 (MT 20)	20:02	19:12	18:21	23 08:09 (MT 23)	16:41	16:30	48 10:30 (MT 21)			
16	05:39	06:28 (MT 20)	06:09	06:41	07:13	07:43 (MT 23)	06:50	07:21	09:41 (MT 21)			
	20:34	52 07:20 (MT 20)	20:01	19:10	18:19	28 08:11 (MT 23)	16:40	16:30	49 10:30 (MT 21)			
17	05:40	06:28 (MT 20)	06:10	06:42	07:14	07:41 (MT 23)	06:51	07:22	09:42 (MT 21)			
	20:33	51 07:19 (MT 20)	19:59	19:08	18:18	31 08:12 (MT 23)	16:39	16:31	49 10:31 (MT 21)			
18	05:40	06:29 (MT 20)	06:11	06:43	07:15	07:40 (MT 23)	06:53	07:23	09:43 (MT 21)			
	20:33	49 07:18 (MT 20)	19:58	19:07	18:16	33 08:13 (MT 23)	16:38	16:31	49 10:32 (MT 21)			
19	05:41	06:30 (MT 20)	06:12	06:44	07:16	07:38 (MT 23)	06:54	07:23	09:43 (MT 21)			
	20:32	47 07:17 (MT 20)	19:56	19:05	18:15	36 08:14 (MT 23)	16:37	16:31	49 10:32 (MT 21)			
20	05:42	06:31 (MT 20)	06:13	06:45	07:18	07:37 (MT 23)	06:55	07:24	09:43 (MT 21)			
	20:31	46 07:17 (MT 20)	19:55	19:03	18:13	38 08:15 (MT 23)	16:37	16:32	50 10:33 (MT 21)			
21	05:43	06:32 (MT 20)	06:14	06:46	07:19	07:35 (MT 23)	06:56	07:24	09:43 (MT 21)			
	20:31	44 07:16 (MT 20)	19:53	19:01	18:12	40 08:15 (MT 23)	16:36	16:32	50 10:33 (MT 21)			
22	05:44	06:34 (MT 20)	06:15	06:47	07:20	07:34 (MT 23)	06:57	07:25	09:44 (MT 21)			
	20:30	41 07:15 (MT 20)	19:52	19:00	18:10	42 08:16 (MT 23)	16:35	16:33	50 10:34 (MT 21)			
23	05:45	06:35 (MT 20)	06:16	06:48	07:21	07:33 (MT 23)	06:59	07:25	09:44 (MT 21)			
	20:29	39 07:14 (MT 20)	19:50	18:58	18:09	43 08:16 (MT 23)	16:35	16:33	50 10:34 (MT 21)			
24	05:46	06:36 (MT 20)	06:17	06:49	07:22	07:33 (MT 23)	07:00	07:26	09:45 (MT 21)			
	20:28	36 07:12 (MT 20)	19:49	18:56	18:07	43 08:16 (MT 23)	16:34	16:34	50 10:35 (MT 21)			
25	05:47	06:38 (MT 20)	06:18	06:50	07:23	07:32 (MT 23)	06:23	07:01	09:46 (MT 21)			
	20:27	32 07:10 (MT 20)	19:47	18:54	17:06	44 08:16 (MT 23)	16:34	16:34	49 10:35 (MT 21)			
26	05:48	06:40 (MT 20)	06:19	06:51	07:24	07:32 (MT 23)	06:25	07:02	09:46 (MT 21)			
	20:26	28 07:08 (MT 20)	19:46	18:53	17:04	45 08:17 (MT 23)	16:33	16:35	49 10:35 (MT 21)			
27	05:49	06:43 (MT 20)	06:20	06:52	07:25	07:32 (MT 23)	06:26	07:03	09:46 (MT 21)			
	20:25	23 07:06 (MT 20)	19:44	18:51	17:03	45 08:17 (MT 23)	16:33	16:36	49 10:35 (MT 21)			
28	05:49	06:46 (MT 20)	06:21	06:53	07:26	07:31 (MT 23)	06:27	07:04	09:48 (MT 21)			
	20:24	16 07:02 (MT 20)	19:42	18:49	17:02	45 08:16 (MT 23)	16:32	12 10:03 (MT 21)	16:36	48 10:36 (MT 21)		
29	05:50		06:22	06:54	07:27	07:31 (MT 23)	06:28	07:06	09:48 (MT 21)			
	20:23		19:41	18:48	17:00	45 08:16 (MT 23)	16:32	19 10:07 (MT 21)	16:37	48 10:36 (MT 21)		
30	05:51		06:23	06:55	07:28	07:31 (MT 23)	06:29	07:07	09:47 (MT 21)	07:28		
	20:22		19:39	18:46	16:59	44 08:15 (MT 23)	16:31	23 10:10 (MT 21)	16:38	47 10:36 (MT 21)		
31	05:52		06:24		06:31				07:28			
	20:21		19:37		16:57				16:39	47 10:36 (MT 21)		
Potential sun hours	462		429	375	344		296		285			
Total, worst case	1398			648		368		54		1388		
Sun reduction	0,61			0,58		0,44		0,41		0,36		
Oper. time red.	0,70			0,70		0,70		0,70		0,70		
Wind dir. red.	0,57			0,63		0,63		0,71		0,71		
Total reduction	0,24			0,26		0,20		0,20		0,18		
Total, real	339			168		72		11		255		

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: R73 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June			
1	07:28	07:14			06:37	16:17 (MT 22)	06:45	05:58			05:29	18:36 (MT 21)		
	16:40	17:15			17:50	44	17:01 (MT 22)	19:25	19:58		20:28	60	18:36 (MT 21)	
2	07:28	07:13			06:36	16:18 (MT 22)	06:44	05:57			05:28	18:36 (MT 21)		
	16:41	17:16			17:51	43	17:01 (MT 22)	19:26	19:59		20:29	61	19:37 (MT 21)	
3	07:28	07:12			06:34	16:17 (MT 22)	06:42	05:56			05:28	18:37 (MT 21)		
	16:41	17:17			17:52	43	17:00 (MT 22)	19:27	20:00		20:30	60	19:37 (MT 21)	
4	07:28	07:11			06:32	16:19 (MT 22)	06:40	05:54			18:59 (MT 21)	05:27	18:36 (MT 21)	
	16:42	17:19			17:53	41	17:00 (MT 22)	19:28	20:01	12	19:11 (MT 21)	20:31	61	19:37 (MT 21)
5	07:28	07:10			06:31	16:19 (MT 22)	06:38	05:53			18:55 (MT 21)	05:27	18:37 (MT 21)	
	16:43	17:20			17:55	39	16:58 (MT 22)	19:30	20:02	20	19:15 (MT 21)	20:31	61	19:38 (MT 21)
6	07:28	07:09			06:29	16:19 (MT 22)	06:37	05:52			18:52 (MT 21)	05:26	18:37 (MT 21)	
	16:44	17:21			17:56	38	16:57 (MT 22)	19:31	20:04	26	19:18 (MT 21)	20:32	61	19:38 (MT 21)
7	07:28	07:08			06:28	16:21 (MT 22)	06:35	05:51			18:49 (MT 21)	05:26	18:37 (MT 21)	
	16:45	17:22			17:57	35	16:56 (MT 22)	19:32	20:05	31	19:20 (MT 21)	20:33	60	19:37 (MT 21)
8	07:28	07:07			06:26	16:22 (MT 22)	06:33	05:49			18:47 (MT 21)	05:26	18:37 (MT 21)	
	16:46	17:24			17:58	33	16:55 (MT 22)	19:33	20:06	35	19:22 (MT 21)	20:33	61	19:38 (MT 21)
9	07:28	07:05			06:24	16:23 (MT 22)	06:32	05:48			18:46 (MT 21)	05:26	18:37 (MT 21)	
	16:47	17:25			17:59	29	16:52 (MT 22)	19:34	20:07	37	19:23 (MT 21)	20:34	61	19:38 (MT 21)
10	07:28	07:04			06:23	16:25 (MT 22)	06:30	05:47			18:44 (MT 21)	05:25	18:38 (MT 21)	
	16:48	17:26			18:00	26	16:51 (MT 22)	19:35	20:08	41	19:25 (MT 21)	20:35	61	19:39 (MT 21)
11	07:28	07:03			06:21	16:27 (MT 22)	06:29	05:46			18:43 (MT 21)	05:25	18:38 (MT 21)	
	16:49	17:28	11	16:46 (MT 22)	18:02	21	16:48 (MT 22)	19:36	20:09	43	19:26 (MT 21)	20:35	61	19:39 (MT 21)
12	07:27	07:02			06:19	16:30 (MT 22)	06:27	05:45			18:42 (MT 21)	05:25	18:38 (MT 21)	
	16:50	17:29	19	16:49 (MT 22)	18:03	14	16:44 (MT 22)	19:37	20:10	45	19:27 (MT 21)	20:36	61	19:39 (MT 21)
13	07:27	07:00			06:18	16:28 (MT 22)	06:25	05:44			18:41 (MT 21)	05:25	18:39 (MT 21)	
	16:52	17:30	24	16:52 (MT 22)	18:04			19:38	20:11	47	19:28 (MT 21)	20:36	61	19:40 (MT 21)
14	07:27	06:59			06:16	16:27 (MT 22)	06:24	05:43			18:40 (MT 21)	05:25	18:39 (MT 21)	
	16:53	17:31	27	16:54 (MT 22)	18:05			19:39	20:12	49	19:29 (MT 21)	20:37	61	19:40 (MT 21)
15	07:26	06:58			06:14	16:24 (MT 22)	06:22	05:42			18:39 (MT 21)	05:25	18:39 (MT 21)	
	16:54	17:33	31	16:55 (MT 22)	18:06			19:41	20:13	50	19:29 (MT 21)	20:37	61	19:40 (MT 21)
16	07:26	06:56			06:13	16:23 (MT 22)	06:20	05:41			18:39 (MT 21)	05:25	18:39 (MT 21)	
	16:55	17:34	34	16:57 (MT 22)	18:07			19:42	20:14	51	19:30 (MT 21)	20:37	61	19:40 (MT 21)
17	07:25	06:55			06:11	16:22 (MT 22)	06:19	05:40			18:38 (MT 21)	05:25	18:39 (MT 21)	
	16:56	17:35	37	16:59 (MT 22)	18:08			19:43	20:15	53	19:31 (MT 21)	20:38	61	19:40 (MT 21)
18	07:25	06:54			06:09	16:21 (MT 22)	06:17	05:39			18:37 (MT 21)	05:25	18:40 (MT 21)	
	16:57	17:36	38	16:59 (MT 22)	18:10			19:44	20:16	54	19:31 (MT 21)	20:38	60	19:40 (MT 21)
19	07:24	06:52			06:07	16:20 (MT 22)	06:16	05:38			18:38 (MT 21)	05:25	18:40 (MT 21)	
	16:58	17:38	40	17:00 (MT 22)	18:11			19:45	20:17	54	19:32 (MT 21)	20:38	60	19:40 (MT 21)
20	07:24	06:51			06:06	16:19 (MT 22)	06:14	05:37			18:37 (MT 21)	05:25	18:40 (MT 21)	
	17:00	17:39	41	17:00 (MT 22)	18:12			19:46	20:18	56	19:33 (MT 21)	20:39	60	19:40 (MT 21)
21	07:23	06:49			06:04	16:19 (MT 22)	06:13	05:36			18:37 (MT 21)	05:25	18:40 (MT 21)	
	17:01	17:40	42	17:01 (MT 22)	18:13			19:47	20:19	56	19:33 (MT 21)	20:39	60	19:40 (MT 21)
22	07:22	06:48			06:02	16:18 (MT 22)	06:11	05:35			18:36 (MT 21)	05:26	18:40 (MT 21)	
	17:02	17:41	43	17:01 (MT 22)	18:14			19:48	20:20	57	19:33 (MT 21)	20:39	60	19:40 (MT 21)
23	07:22	06:46			06:01	16:18 (MT 22)	06:10	05:34			18:36 (MT 21)	05:26	18:41 (MT 21)	
	17:03	17:43	44	17:02 (MT 22)	18:15			19:49	20:21	57	19:33 (MT 21)	20:39	60	19:41 (MT 21)
24	07:21	06:45			05:59	16:17 (MT 22)	06:08	05:34			18:36 (MT 21)	05:26	18:41 (MT 21)	
	17:05	17:44	45	17:02 (MT 22)	18:16			19:50	20:22	58	19:34 (MT 21)	20:40	60	19:41 (MT 21)
25	07:20	06:43			05:57	16:17 (MT 22)	06:07	05:33			18:36 (MT 21)	05:26	18:40 (MT 21)	
	17:06	17:45	45	17:02 (MT 22)	18:17			19:52	20:23	58	19:34 (MT 21)	20:40	61	19:41 (MT 21)
26	07:20	06:42			05:55	16:17 (MT 22)	06:05	05:32			18:35 (MT 21)	05:27	18:41 (MT 21)	
	17:07	17:46	45	17:02 (MT 22)	18:18			19:53	20:23	59	19:34 (MT 21)	20:40	61	19:42 (MT 21)
27	07:19	06:40			05:54	16:17 (MT 22)	06:04	05:31			18:36 (MT 21)	05:27	18:41 (MT 21)	
	17:08	17:47	45	17:02 (MT 22)	18:20			19:54	20:24	59	19:35 (MT 21)	20:40	61	19:42 (MT 21)
28	07:18	06:39			05:52	16:17 (MT 22)	06:02	05:31			18:36 (MT 21)	05:27	18:41 (MT 21)	
	17:10	17:49	45	17:02 (MT 22)	18:21			19:55	20:25	59	19:35 (MT 21)	20:40	61	19:42 (MT 21)
29	07:17				06:50			06:01	05:30		18:36 (MT 21)	05:28	18:42 (MT 21)	
	17:11				19:22			19:56	20:26	60	19:36 (MT 21)	20:40	61	19:43 (MT 21)
30	07:16				06:49			06:00	05:30		18:36 (MT 21)	05:28	18:41 (MT 21)	
	17:12				19:23			19:57	20:27	60	19:36 (MT 21)	20:40	61	19:42 (MT 21)
31	07:15				06:47			05:29	05:29		18:36 (MT 21)			
	17:13				19:24			20:28	20:28	60	19:36 (MT 21)			
Potential sun hours	295	296			369			400	450		455			
Total, worst case			656			406			1347			1820		
Sun reduction			0,46			0,44			0,47			0,54		
Oper. time red.			0,70			0,70			0,70			0,70		
Wind dir. red.			0,57			0,57			0,65			0,65		
Total reduction			0,18			0,17			0,21			0,24		
Total, real			118			70			282			441		

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: R73 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

		July		August		September		October		November		December	
1	05:29	18:42 (MT 21)	05:53	18:53 (MT 21)	06:25	06:56	17:12 (MT 22)	06:32	07:08				
	20:40	61	19:43 (MT 21)	20:20	44	19:37 (MT 21)	19:36	18:44	9	17:21 (MT 22)	16:56	16:31	
2	05:29	18:42 (MT 21)	05:54	18:54 (MT 21)	06:26	06:57	17:07 (MT 22)	06:33	07:09				
	20:39	61	19:43 (MT 21)	20:19	42	19:36 (MT 21)	19:34	18:42	18	17:25 (MT 22)	16:55	16:31	
3	05:30	18:42 (MT 21)	05:55	18:55 (MT 21)	06:27	06:59	17:04 (MT 22)	06:34	07:10				
	20:39	61	19:43 (MT 21)	20:18	40	19:35 (MT 21)	19:32	18:41	24	17:28 (MT 22)	16:54	16:30	
4	05:30	18:42 (MT 21)	05:56	18:57 (MT 21)	06:28	07:00	17:01 (MT 22)	06:35	07:11				
	20:39	61	19:43 (MT 21)	20:17	36	19:33 (MT 21)	19:31	18:39	28	17:29 (MT 22)	16:52	16:30	
5	05:31	18:43 (MT 21)	05:57	18:58 (MT 21)	06:29	07:01	16:59 (MT 22)	06:37	07:12				
	20:39	61	19:44 (MT 21)	20:15	34	19:32 (MT 21)	19:29	18:37	32	17:31 (MT 22)	16:51	16:30	
6	05:32	18:43 (MT 21)	05:58	19:00 (MT 21)	06:30	07:02	16:57 (MT 22)	06:38	07:13				
	20:39	61	19:44 (MT 21)	20:14	30	19:30 (MT 21)	19:27	18:36	35	17:32 (MT 22)	16:50	16:30	
7	05:32	18:43 (MT 21)	05:59	19:02 (MT 21)	06:31	07:03	16:56 (MT 22)	06:39	07:14				
	20:38	61	19:44 (MT 21)	20:13	25	19:27 (MT 21)	19:26	18:34	36	17:32 (MT 22)	16:49	16:30	
8	05:33	18:43 (MT 21)	06:00	19:06 (MT 21)	06:32	07:04	16:54 (MT 22)	06:40	07:15				
	20:38	61	19:44 (MT 21)	20:12	18	19:24 (MT 21)	19:24	18:32	39	17:33 (MT 22)	16:48	16:30	
9	05:33	18:43 (MT 21)	06:01	19:11 (MT 21)	06:34	07:05	16:54 (MT 22)	06:42	07:16				
	20:38	61	19:44 (MT 21)	20:10	7	19:18 (MT 21)	19:22	18:31	40	17:34 (MT 22)	16:47	16:30	
10	05:34	18:43 (MT 21)	06:03			06:35	07:06	16:53 (MT 22)	06:43	07:16			
	20:37	61	19:44 (MT 21)	20:09		19:20	18:29	41	17:34 (MT 22)	16:46	16:30		
11	05:35	18:44 (MT 21)	06:04			06:36	07:07	16:52 (MT 22)	06:44	07:17			
	20:37	60	19:44 (MT 21)	20:08		19:19	18:27	42	17:34 (MT 22)	16:45	16:30		
12	05:36	18:44 (MT 21)	06:05			06:37	07:08	16:51 (MT 22)	06:45	07:18			
	20:36	61	19:45 (MT 21)	20:06		19:17	18:26	43	17:34 (MT 22)	16:44	16:30		
13	05:36	18:44 (MT 21)	06:06			06:38	07:10	16:50 (MT 22)	06:47	07:19			
	20:36	60	19:44 (MT 21)	20:05		19:15	18:24	44	17:34 (MT 22)	16:43	16:30		
14	05:37	18:44 (MT 21)	06:07			06:39	07:11	16:49 (MT 22)	06:48	07:20			
	20:35	60	19:44 (MT 21)	20:04		19:14	18:22	45	17:34 (MT 22)	16:42	16:30		
15	05:38	18:45 (MT 21)	06:08			06:40	07:12	16:50 (MT 22)	06:49	07:20			
	20:35	60	19:45 (MT 21)	20:02		19:12	18:21	45	17:35 (MT 22)	16:41	16:30		
16	05:39	18:45 (MT 21)	06:09			06:41	07:13	16:49 (MT 22)	06:50	07:21			
	20:34	60	19:45 (MT 21)	20:01		19:10	18:19	45	17:34 (MT 22)	16:40	16:30		
17	05:40	18:45 (MT 21)	06:10			06:42	07:14	16:49 (MT 22)	06:51	07:22			
	20:33	59	19:44 (MT 21)	19:59		19:08	18:18	45	17:34 (MT 22)	16:39	16:31		
18	05:40	18:45 (MT 21)	06:11			06:43	07:15	16:49 (MT 22)	06:53	07:23			
	20:33	59	19:44 (MT 21)	19:58		19:07	18:16	44	17:33 (MT 22)	16:38	16:31		
19	05:41	18:46 (MT 21)	06:12			06:44	07:16	16:49 (MT 22)	06:54	07:23			
	20:32	58	19:44 (MT 21)	19:56		19:05	18:15	43	17:32 (MT 22)	16:37	16:31		
20	05:42	18:46 (MT 21)	06:13			06:45	07:18	16:50 (MT 22)	06:55	07:24			
	20:31	58	19:44 (MT 21)	19:55		19:03	18:13	43	17:33 (MT 22)	16:37	16:32		
21	05:43	18:47 (MT 21)	06:14			06:46	07:19	16:50 (MT 22)	06:56	07:24			
	20:30	57	19:44 (MT 21)	19:53		19:01	18:12	42	17:32 (MT 22)	16:36	16:32		
22	05:44	18:47 (MT 21)	06:15			06:47	07:20	16:50 (MT 22)	06:57	07:25			
	20:30	57	19:44 (MT 21)	19:52		19:00	18:10	41	17:31 (MT 22)	16:35	16:33		
23	05:45	18:48 (MT 21)	06:16			06:48	07:21	16:50 (MT 22)	06:59	07:25			
	20:29	55	19:43 (MT 21)	19:50		18:58	18:09	40	17:30 (MT 22)	16:35	16:33		
24	05:46	18:47 (MT 21)	06:17			06:49	07:22	16:51 (MT 22)	07:00	07:26			
	20:28	55	19:42 (MT 21)	19:49		18:56	18:07	37	17:28 (MT 22)	16:34	16:34		
25	05:47	18:48 (MT 21)	06:18			06:50	06:23	15:52 (MT 22)	07:01	07:26			
	20:27	54	19:42 (MT 21)	19:47		18:54	17:06	36	16:28 (MT 22)	16:34	16:34		
26	05:48	18:48 (MT 21)	06:19			06:51	06:25	15:53 (MT 22)	07:02	07:27			
	20:26	53	19:41 (MT 21)	19:45		18:53	17:04	33	16:26 (MT 22)	16:33	16:35		
27	05:49	18:49 (MT 21)	06:20			06:52	06:26	15:54 (MT 22)	07:03	07:27			
	20:25	52	19:41 (MT 21)	19:44		18:51	17:03	31	16:25 (MT 22)	16:32	16:36		
28	05:49	18:50 (MT 21)	06:21			06:53	06:27	15:57 (MT 22)	07:04	07:27			
	20:24	50	19:40 (MT 21)	19:42		18:49	17:01	27	16:24 (MT 22)	16:32	16:36		
29	05:50	18:50 (MT 21)	06:22			06:54	06:28	15:58 (MT 22)	07:05	07:28			
	20:23	50	19:40 (MT 21)	19:41		18:47	17:00	23	16:21 (MT 22)	16:32	16:37		
30	05:51	18:51 (MT 21)	06:23			06:55	06:29	16:01 (MT 22)	07:07	07:28			
	20:22	48	19:39 (MT 21)	19:39		18:46	16:59	17	16:18 (MT 22)	16:31	16:38		
31	05:52	18:52 (MT 21)	06:24				06:31	16:05 (MT 22)		07:28			
	20:21	46	19:38 (MT 21)	19:37			16:57	8	16:13 (MT 22)		16:39		
Potential sun hours	462		429		375	344		296		285			
Total, worst case	1782		276		1076								
Sun reduction	0,61		0,67		0,44								
Oper. time red.	0,70		0,70		0,70								
Wind dir. red.	0,65		0,65		0,57								
Total reduction	0,27		0,30		0,17								
Total, real	485		83		185								

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: R74 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28	07:14			06:37		16:29 (MT 22)	06:45		05:58	18:16 (MT 21)	05:29
	16:40	17:15			17:50	10	16:39 (MT 22)	19:25		19:58	19:02 (MT 21)	20:28
2	07:28	07:13			06:36			06:44		05:57	18:17 (MT 21)	05:28
	16:41	17:16			17:51			19:26		19:59	19:01 (MT 21)	20:29
3	07:28	07:12			16:29 (MT 22)	06:34		06:42		05:56	18:16 (MT 21)	05:28
	16:41	17:17	10		16:39 (MT 22)	17:52		19:27		20:00	19:00 (MT 21)	20:30
4	07:28	07:11			16:26 (MT 22)	06:32		06:40		05:54	18:17 (MT 21)	05:27
	16:42	17:19	16		16:42 (MT 22)	17:53		19:28		20:01	19:00 (MT 21)	20:31
5	07:28	07:10			16:24 (MT 22)	06:31		06:38		05:53	18:18 (MT 21)	05:27
	16:43	17:20	21		16:45 (MT 22)	17:55		19:30		20:02	18:59 (MT 21)	20:31
6	07:28	07:09			16:23 (MT 22)	06:29		06:37		05:52	18:19 (MT 21)	05:26
	16:44	17:21	24		16:47 (MT 22)	17:56		19:31		20:04	18:58 (MT 21)	20:32
7	07:28	07:08			16:22 (MT 22)	06:28		06:35		18:40 (MT 21)	18:19 (MT 21)	05:26
	16:45	17:22	27		16:49 (MT 22)	17:57		19:32	7	18:47 (MT 21)	18:56 (MT 21)	20:33
8	07:28	07:07			16:21 (MT 22)	06:26		06:33		18:34 (MT 21)	18:20 (MT 21)	05:26
	16:46	17:24	29		16:50 (MT 22)	17:58		19:33	18	18:52 (MT 21)	18:55 (MT 21)	20:33
9	07:28	07:05			16:19 (MT 22)	06:24		06:32		18:31 (MT 21)	18:22 (MT 21)	05:26
	16:47	17:25	31		16:50 (MT 22)	17:59		19:34	25	18:56 (MT 21)	18:54 (MT 21)	20:34
10	07:28	07:04			16:19 (MT 22)	06:23		06:30		18:28 (MT 21)	18:23 (MT 21)	05:25
	16:48	17:26	33		16:52 (MT 22)	18:00		19:35	29	18:57 (MT 21)	18:53 (MT 21)	20:35
11	07:28	07:03			16:18 (MT 22)	06:21		06:28		18:26 (MT 21)	18:24 (MT 21)	05:25
	16:49	17:28	35		16:53 (MT 22)	18:02		19:36	33	18:59 (MT 21)	18:52 (MT 21)	20:35
12	07:27	07:02			16:17 (MT 22)	06:19		06:27		18:24 (MT 21)	18:26 (MT 21)	05:25
	16:50	17:29	35		16:52 (MT 22)	18:03		19:37	37	19:01 (MT 21)	18:50 (MT 21)	20:36
13	07:27	07:00			16:17 (MT 22)	06:18		06:25		18:22 (MT 21)	18:28 (MT 21)	05:25
	16:52	17:30	36		16:53 (MT 22)	18:04		19:38	39	19:01 (MT 21)	18:48 (MT 21)	20:36
14	07:27	06:59			16:17 (MT 22)	06:16		06:24		18:21 (MT 21)	18:31 (MT 21)	05:25
	16:53	17:31	37		16:54 (MT 22)	18:05		19:39	41	19:02 (MT 21)	18:46 (MT 21)	20:37
15	07:26	06:58			16:16 (MT 22)	06:14		06:22		18:20 (MT 21)	18:35 (MT 21)	05:25
	16:54	17:33	38		16:54 (MT 22)	18:06		19:41	43	19:03 (MT 21)	18:41 (MT 21)	20:37
16	07:26	06:56			16:16 (MT 22)	06:13		06:20		18:18 (MT 21)	18:46 (MT 21)	05:25
	16:55	17:34	38		16:54 (MT 22)	18:07		19:42	45	19:03 (MT 21)	18:46 (MT 21)	20:37
17	07:25	06:55			16:17 (MT 22)	06:11		06:19		18:18 (MT 21)	18:46 (MT 21)	05:25
	16:56	17:35	37		16:54 (MT 22)	18:08		19:43	46	19:04 (MT 21)	18:46 (MT 21)	20:38
18	07:25	06:54			16:16 (MT 22)	06:09		06:17		18:17 (MT 21)	18:46 (MT 21)	05:25
	16:57	17:36	38		16:54 (MT 22)	18:10		19:44	47	19:04 (MT 21)	18:46 (MT 21)	20:38
19	07:24	06:52			16:17 (MT 22)	06:07		06:16		18:17 (MT 21)	18:46 (MT 21)	05:25
	16:58	17:38	37		16:54 (MT 22)	18:11		19:45	48	19:05 (MT 21)	18:46 (MT 21)	20:38
20	07:24	06:51			16:17 (MT 22)	06:06		06:14		18:16 (MT 21)	18:46 (MT 21)	05:25
	17:00	17:39	36		16:53 (MT 22)	18:12		19:46	48	19:04 (MT 21)	18:46 (MT 21)	20:39
21	07:23	06:49			16:17 (MT 22)	06:04		06:13		18:16 (MT 21)	18:46 (MT 21)	05:25
	17:01	17:40	36		16:53 (MT 22)	18:13		19:47	49	19:05 (MT 21)	18:46 (MT 21)	20:39
22	07:22	06:48			16:18 (MT 22)	06:02		06:11		18:15 (MT 21)	18:46 (MT 21)	05:26
	17:02	17:41	34		16:52 (MT 22)	18:14		19:48	49	19:04 (MT 21)	18:46 (MT 21)	20:39
23	07:22	06:46			16:19 (MT 22)	06:01		06:10		18:15 (MT 21)	18:46 (MT 21)	05:26
	17:03	17:43	33		16:52 (MT 22)	18:15		19:49	50	19:05 (MT 21)	18:46 (MT 21)	20:39
24	07:21	06:45			16:19 (MT 22)	05:59		06:08		18:14 (MT 21)	18:46 (MT 21)	05:26
	17:05	17:44	31		16:50 (MT 22)	18:16		19:50	50	19:04 (MT 21)	18:46 (MT 21)	20:40
25	07:20	06:43			16:21 (MT 22)	05:57		06:07		18:15 (MT 21)	18:46 (MT 21)	05:26
	17:06	17:45	28		16:49 (MT 22)	18:17		19:52	49	19:04 (MT 21)	18:46 (MT 21)	20:40
26	07:20	06:42			16:22 (MT 22)	05:55		06:05		18:15 (MT 21)	18:46 (MT 21)	05:27
	17:07	17:46	25		16:47 (MT 22)	18:18		19:53	49	19:04 (MT 21)	18:46 (MT 21)	20:40
27	07:19	06:40			16:24 (MT 22)	05:54		06:04		18:14 (MT 21)	18:46 (MT 21)	05:27
	17:08	17:47	22		16:46 (MT 22)	18:20		19:54	49	19:03 (MT 21)	18:46 (MT 21)	20:40
28	07:18	06:39			16:26 (MT 22)	05:52		06:02		18:15 (MT 21)	18:46 (MT 21)	05:27
	17:10	17:49	17		16:43 (MT 22)	18:21		19:55	48	19:03 (MT 21)	18:46 (MT 21)	20:40
29	07:17					06:50		06:01		18:14 (MT 21)	18:46 (MT 21)	05:28
	17:11					19:22		19:56	48	19:02 (MT 21)	18:46 (MT 21)	20:40
30	07:16					06:49		06:00		18:15 (MT 21)	18:46 (MT 21)	05:28
	17:12					19:23		19:57	47	19:02 (MT 21)	18:46 (MT 21)	20:40
31	07:15					06:47				05:29		
	17:13					19:24				20:28		
Potential sun hours	295	296			369		400			450		455
Total, worst case			784		10		994			484		
Sun reduction			0,46		0,44		0,48			0,47		
Oper. time red.			0,70		0,70		0,70			0,70		
Wind dir. red.			0,57		0,57		0,63			0,63		
Total reduction			0,18		0,17		0,21			0,20		
Total, real			141		2		208			99		

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: R74 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	18:36 (MT 21) 19:01 (MT 21)	06:25 19:36	18:25 (MT 21) 18:58 (MT 21)	06:56 18:44
2	05:29 20:39	05:54 20:19	18:34 (MT 21) 19:03 (MT 21)	06:26 19:34	18:26 (MT 21) 18:55 (MT 21)	06:57 18:42
3	05:30 20:39	05:55 20:18	18:33 (MT 21) 19:04 (MT 21)	06:27 19:32	18:28 (MT 21) 18:53 (MT 21)	06:59 18:41
4	05:30 20:39	05:56 20:16	18:32 (MT 21) 19:05 (MT 21)	06:28 19:31	18:31 (MT 21) 18:49 (MT 21)	07:00 18:39
5	05:31 20:39	05:57 20:15	18:31 (MT 21) 19:06 (MT 21)	06:29 19:29	18:36 (MT 21) 18:44 (MT 21)	07:01 18:37
6	05:32 20:39	05:58 20:14	18:29 (MT 21) 19:07 (MT 21)	06:30 19:27	18:37 (MT 21) 18:28 (MT 21)	07:02 18:36
7	05:32 20:38	05:59 20:13	18:28 (MT 21) 19:08 (MT 21)	06:31 19:26	18:38 (MT 21) 18:27 (MT 21)	07:03 18:34
8	05:33 20:38	06:00 20:12	18:27 (MT 21) 19:09 (MT 21)	06:32 19:24	18:39 (MT 21) 18:26 (MT 21)	07:04 18:32
9	05:33 20:38	06:01 20:10	18:27 (MT 21) 19:09 (MT 21)	06:34 19:22	18:40 (MT 21) 18:25 (MT 21)	07:05 18:31
10	05:34 20:37	06:03 20:09	18:26 (MT 21) 19:10 (MT 21)	06:35 19:20	18:41 (MT 21) 18:24 (MT 21)	07:06 18:29
11	05:35 20:37	06:04 20:08	18:25 (MT 21) 19:10 (MT 21)	06:36 19:19	18:42 (MT 21) 18:23 (MT 21)	07:07 18:27
12	05:36 20:36	06:05 20:06	18:24 (MT 21) 19:11 (MT 21)	06:37 19:17	18:43 (MT 21) 18:22 (MT 21)	07:08 18:26
13	05:36 20:36	06:06 20:05	18:24 (MT 21) 19:11 (MT 21)	06:38 19:15	17:01 (MT 22) 17:14 (MT 22)	06:47 16:43
14	05:37 20:35	06:07 20:04	18:23 (MT 21) 19:11 (MT 21)	06:39 19:14	16:57 (MT 22) 17:17 (MT 22)	06:48 16:42
15	05:38 20:35	06:08 20:02	18:23 (MT 21) 19:11 (MT 21)	06:40 19:12	16:56 (MT 22) 17:19 (MT 22)	06:49 16:41
16	05:39 20:34	06:09 20:01	18:22 (MT 21) 19:11 (MT 21)	06:41 19:10	16:54 (MT 22) 17:20 (MT 22)	06:50 16:40
17	05:40 20:33	06:10 19:59	18:22 (MT 21) 19:11 (MT 21)	06:42 19:08	16:52 (MT 22) 17:21 (MT 22)	06:51 16:39
18	05:40 20:33	06:11 19:58	18:21 (MT 21) 19:11 (MT 21)	06:43 19:07	16:50 (MT 22) 17:22 (MT 22)	06:53 16:38
19	05:41 20:32	06:12 19:56	18:21 (MT 21) 19:11 (MT 21)	06:44 19:05	16:49 (MT 22) 17:22 (MT 22)	06:54 16:37
20	05:42 20:31	06:13 19:55	18:21 (MT 21) 19:10 (MT 21)	06:45 19:03	16:49 (MT 22) 17:24 (MT 22)	06:55 16:37
21	05:43 20:30	06:14 19:53	18:20 (MT 21) 19:09 (MT 21)	06:46 19:01	16:48 (MT 22) 17:24 (MT 22)	06:56 16:36
22	05:44 20:30	06:15 19:52	18:20 (MT 21) 19:09 (MT 21)	06:47 19:00	16:47 (MT 22) 17:24 (MT 22)	06:57 16:35
23	05:45 20:29	06:16 19:50	18:20 (MT 21) 19:08 (MT 21)	06:48 18:58	16:46 (MT 22) 17:24 (MT 22)	06:59 16:35
24	05:46 20:28	06:17 19:49	18:20 (MT 21) 19:07 (MT 21)	06:49 18:56	16:46 (MT 22) 17:23 (MT 22)	07:00 16:34
25	05:47 20:27	06:18 19:47	18:20 (MT 21) 19:07 (MT 21)	06:50 18:54	16:46 (MT 22) 16:24 (MT 22)	07:01 16:34
26	05:48 20:26	06:19 19:45	18:20 (MT 21) 19:06 (MT 21)	06:51 18:53	16:45 (MT 22) 16:24 (MT 22)	07:02 16:33
27	05:49 20:25	06:20 19:44	18:20 (MT 21) 19:05 (MT 21)	06:52 18:51	16:44 (MT 22) 16:23 (MT 22)	07:03 16:32
28	05:49 20:24	06:21 19:42	18:21 (MT 21) 19:04 (MT 21)	06:53 18:49	16:43 (MT 22) 16:24 (MT 22)	07:04 16:32
29	05:50 20:23	18:43 (MT 21) 18:54 (MT 21)	06:22 19:41	18:22 (MT 21) 19:02 (MT 21)	06:54 18:47	07:05 16:32
30	05:51 20:22	18:40 (MT 21) 18:57 (MT 21)	06:23 19:39	18:22 (MT 21) 19:01 (MT 21)	06:55 18:46	07:07 16:31
31	05:52 20:21	18:38 (MT 21) 19:00 (MT 21)	06:24 19:37	18:23 (MT 21) 18:59 (MT 21)	06:56 16:57	07:08 16:21 (MT 22)
Potential sun hours	462	429	375	344	296	285
Total, worst case	50	1330	113	614	186	
Sun reduction	0,61	0,67	0,58	0,44	0,41	
Oper. time red.	0,70	0,70	0,70	0,70	0,70	
Wind dir. red.	0,63	0,63	0,63	0,57	0,57	
Total reduction	0,26	0,29	0,25	0,17	0,16	
Total, real	13	388	29	105	30	

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: R75 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (45)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	16:37 (MT 22) 17:12 (MT 22)	06:45 19:25	05:58 19:58
2	07:28 16:41	07:13 17:16	06:36 17:51	16:37 (MT 22) 17:12 (MT 22)	06:44 19:26	05:57 19:59
3	07:28 16:41	07:12 17:17	06:34 17:52	16:37 (MT 22) 17:12 (MT 22)	06:42 19:27	05:56 20:00
4	07:28 16:42	07:11 17:19	06:32 17:53	16:38 (MT 22) 17:12 (MT 22)	06:40 19:28	05:54 20:01
5	07:28 16:43	07:10 17:20	06:31 17:55	16:38 (MT 22) 17:11 (MT 22)	06:38 19:29	05:53 20:02
6	07:28 16:44	07:09 17:21	06:29 17:56	16:38 (MT 22) 17:09 (MT 22)	06:37 19:31	05:52 20:04
7	07:28 16:45	07:08 17:22	06:28 17:57	16:39 (MT 22) 17:09 (MT 22)	06:35 19:32	05:51 20:05
8	07:28 16:46	07:07 17:24	06:26 17:58	16:40 (MT 22) 17:07 (MT 22)	06:33 19:33	05:49 20:06
9	07:28 16:47	07:05 17:25	06:24 17:59	16:41 (MT 22) 17:05 (MT 22)	06:32 19:34	05:48 20:07
10	07:28 16:48	07:04 17:26	06:23 18:00	16:43 (MT 22) 17:04 (MT 22)	06:30 19:35	05:47 20:08
11	07:28 16:49	07:03 17:28	06:21 18:02	16:45 (MT 22) 17:01 (MT 22)	06:28 19:36	05:46 20:09
12	07:27 16:50	07:02 17:29	06:19 18:03	16:49 (MT 22) 16:56 (MT 22)	06:27 19:37	05:45 20:10
13	07:27 16:52	07:00 17:30	06:18 18:04	16:56 (MT 22)	06:25 19:38	05:44 20:11
14	07:27 16:53	06:59 17:31	06:16 18:05	06:24 19:39	06:24 19:39	05:43 20:12
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	06:22 19:41	05:42 20:13
16	07:26 16:55	06:56 17:34	06:13 18:07	06:20 19:42	06:20 19:42	05:41 20:14
17	07:25 16:56	06:55 17:35	06:11 18:08	16:55 (MT 22) 16:58 (MT 22)	06:19 19:43	05:40 20:15
18	07:25 16:57	06:54 17:36	06:09 18:10	16:49 (MT 22) 17:03 (MT 22)	06:17 19:44	05:39 19:05 (MT 21)
19	07:24 16:58	06:52 17:38	06:07 18:11	16:46 (MT 22) 17:06 (MT 22)	06:16 19:45	05:38 18:49 (MT 21)
20	07:24 17:00	06:51 17:39	06:06 18:12	16:44 (MT 22) 17:07 (MT 22)	06:14 19:46	05:37 18:46 (MT 21)
21	07:23 17:01	06:49 17:40	06:04 18:13	16:43 (MT 22) 17:09 (MT 22)	06:13 19:47	05:36 18:45 (MT 21)
22	07:22 17:02	06:48 17:41	06:02 18:14	16:41 (MT 22) 17:10 (MT 22)	06:11 19:48	05:35 18:42 (MT 21)
23	07:22 17:03	06:46 17:43	06:01 18:15	16:40 (MT 22) 17:11 (MT 22)	06:10 19:49	05:34 18:41 (MT 21)
24	07:21 17:05	06:45 17:44	05:59 18:16	16:39 (MT 22) 17:11 (MT 22)	06:08 19:50	05:34 18:40 (MT 21)
25	07:20 17:06	06:43 17:45	05:57 18:17	16:39 (MT 22) 17:12 (MT 22)	06:07 19:51	05:33 18:39 (MT 21)
26	07:20 17:07	06:42 17:46	05:55 18:18	16:38 (MT 22) 17:12 (MT 22)	06:05 19:53	05:32 18:38 (MT 21)
27	07:19 17:08	06:40 17:47	05:54 18:19	16:38 (MT 22) 17:13 (MT 22)	06:04 19:54	05:31 18:37 (MT 21)
28	07:18 17:10	06:39 17:49	05:52 18:21	16:37 (MT 22) 17:13 (MT 22)	06:02 19:55	05:31 18:37 (MT 21)
29	07:17 17:11		06:50 19:22		06:01 19:56	05:30 18:35 (MT 21)
30	07:16 17:12		06:49 19:23		06:00 19:57	05:30 18:35 (MT 21)
31	07:15 17:13		06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Total, worst case		316	328	433	905	
Sun reduction		0,46	0,44	0,48	0,47	
Oper. time red.		0,70	0,70	0,70	0,70	
Wind dir. red.		0,56	0,56	0,63	0,63	
Total reduction		0,18	0,17	0,21	0,20	
Total, real		57	57	91	185	

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: R75 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (45)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December			
1	05:29	05:53	18:47 (MT 21)	06:25	06:56	06:32	07:08		
	20:40	20:20	19:27 (MT 21)	19:36	18:44	16:56	16:31		
2	05:29	05:54	18:46 (MT 21)	06:26	06:57	17:25 (MT 22)	06:33	07:09	
	20:39	20:19	19:28 (MT 21)	19:34	18:42	16:55	16:31		
3	05:30	05:55	18:46 (MT 21)	06:27	06:59	17:22 (MT 22)	06:34	07:10	
	20:39	20:18	19:28 (MT 21)	19:32	18:41	16:54	16:30		
4	05:30	05:56	18:45 (MT 21)	06:28	07:00	17:19 (MT 22)	06:35	07:11	
	20:39	20:16	19:28 (MT 21)	19:31	18:39	16:52	16:30		
5	05:31	05:57	18:45 (MT 21)	06:29	07:01	17:17 (MT 22)	06:37	07:12	
	20:39	20:15	19:28 (MT 21)	19:29	18:37	16:51	16:30		
6	05:32	05:58	18:45 (MT 21)	06:30	07:02	17:16 (MT 22)	06:38	07:13	
	20:39	20:14	19:28 (MT 21)	19:27	18:36	16:50	16:30		
7	05:32	05:59	18:44 (MT 21)	06:31	07:03	17:14 (MT 22)	06:39	07:14	
	20:38	20:13	19:28 (MT 21)	19:26	18:34	16:49	16:30		
8	05:33	06:00	18:44 (MT 21)	06:32	07:04	17:13 (MT 22)	06:40	07:15	
	20:38	20:12	19:28 (MT 21)	19:24	18:32	16:48	16:30		
9	05:33	06:01	18:44 (MT 21)	06:34	07:05	17:13 (MT 22)	06:42	07:16	
	20:38	20:10	19:28 (MT 21)	19:22	18:31	16:47	16:30		
10	05:34	06:03	18:44 (MT 21)	06:35	07:06	17:12 (MT 22)	06:43	07:16	
	20:37	20:09	19:28 (MT 21)	19:20	18:29	16:46	16:30		
11	05:35	06:04	18:44 (MT 21)	06:36	07:07	17:11 (MT 22)	06:44	07:17	
	20:37	20:08	19:28 (MT 21)	19:19	18:27	16:45	16:30		
12	05:36	06:05	18:44 (MT 21)	06:37	07:08	17:11 (MT 22)	06:45	07:18	
	20:36	20:06	19:28 (MT 21)	19:17	18:26	16:44	16:30		
13	05:36	06:06	18:44 (MT 21)	06:38	07:10	17:10 (MT 22)	06:47	07:19	
	20:36	20:05	19:27 (MT 21)	19:15	18:24	16:43	16:30		
14	05:37	06:07	18:44 (MT 21)	06:39	07:11	17:10 (MT 22)	06:48	07:20	
	20:35	20:04	19:27 (MT 21)	19:14	18:22	16:42	16:30		
15	05:38	06:08	18:45 (MT 21)	06:40	07:12	17:11 (MT 22)	06:49	07:20	
	20:35	20:02	19:26 (MT 21)	19:12	18:21	16:41	16:30		
16	05:39	06:09	18:45 (MT 21)	06:41	07:13	17:10 (MT 22)	06:50	07:21	
	20:34	20:01	19:25 (MT 21)	19:10	18:19	16:40	16:30		
17	05:40	19:03 (MT 21)	06:10	18:45 (MT 21)	06:42	07:14	17:11 (MT 22)	06:51	07:22
	20:33	6 19:09 (MT 21)	19:59	39 19:24 (MT 21)	19:08	18:18	33 17:44 (MT 22)	16:39	16:31
18	05:40	19:00 (MT 21)	06:11	18:46 (MT 21)	06:43	07:15	17:11 (MT 22)	06:53	07:23
	20:33	13 19:13 (MT 21)	19:58	37 19:23 (MT 21)	19:07	18:16	32 17:43 (MT 22)	16:38	16:31
19	05:41	18:58 (MT 21)	06:12	18:47 (MT 21)	06:44	07:16	17:11 (MT 22)	06:54	07:23
	20:32	17 19:15 (MT 21)	19:56	35 19:22 (MT 21)	19:05	18:15	30 17:41 (MT 22)	16:37	16:31
20	05:42	18:57 (MT 21)	06:13	18:46 (MT 21)	06:45	07:18	17:13 (MT 22)	06:55	07:24
	20:31	20 19:17 (MT 21)	19:55	34 19:20 (MT 21)	19:03	18:13	28 17:41 (MT 22)	16:37	16:32
21	05:43	18:56 (MT 21)	06:14	18:47 (MT 21)	06:46	07:19	17:14 (MT 22)	06:56	07:24
	20:30	22 19:18 (MT 21)	19:53	31 19:18 (MT 21)	19:01	18:11	25 17:39 (MT 22)	16:36	16:32
22	05:44	18:55 (MT 21)	06:15	18:49 (MT 21)	06:47	07:20	17:15 (MT 22)	06:57	07:25
	20:30	25 19:20 (MT 21)	19:52	28 19:17 (MT 21)	19:00	18:10	22 17:37 (MT 22)	16:35	16:33
23	05:45	18:54 (MT 21)	06:16	18:50 (MT 21)	06:48	07:21	17:17 (MT 22)	06:59	07:25
	20:29	27 19:21 (MT 21)	19:50	24 19:14 (MT 21)	18:58	18:09	18 17:35 (MT 22)	16:35	16:33
24	05:46	18:52 (MT 21)	06:17	18:53 (MT 21)	06:49	07:22	17:19 (MT 22)	07:00	07:26
	20:28	29 19:21 (MT 21)	19:49	19 19:12 (MT 21)	18:56	18:07	13 17:32 (MT 22)	16:34	16:34
25	05:47	18:51 (MT 21)	06:18	18:56 (MT 21)	06:50	06:23	07:01	07:26	
	20:27	31 19:22 (MT 21)	19:47	12 19:08 (MT 21)	18:54	17:06	16:34	16:34	
26	05:48	18:50 (MT 21)	06:19	18:57 (MT 21)	06:51	06:25	07:02	07:27	
	20:26	33 19:23 (MT 21)	19:45	11 18:53	17:04	16:33	16:35		
27	05:48	18:50 (MT 21)	06:20	18:58 (MT 21)	06:52	06:26	07:03	07:27	
	20:25	34 19:24 (MT 21)	19:44	10 18:51	17:03	16:32	16:36		
28	05:49	18:49 (MT 21)	06:21	18:59 (MT 21)	06:53	06:27	07:04	07:27	
	20:24	36 19:25 (MT 21)	19:42	9 18:49	17:01	16:32	16:36		
29	05:50	18:48 (MT 21)	06:22	19:00 (MT 21)	06:54	06:28	07:05	07:28	
	20:23	38 19:26 (MT 21)	19:41	8 18:47	17:00	16:32	16:37		
30	05:51	18:48 (MT 21)	06:23	19:01 (MT 21)	06:55	06:29	07:07	07:28	
	20:22	38 19:26 (MT 21)	19:39	7 18:46	16:59	16:31	16:38		
31	05:52	18:47 (MT 21)	06:24	19:02 (MT 21)	06:56	06:30	07:08	07:28	
	20:21	40 19:27 (MT 21)	19:37	6 16:57	16:57	16:39			
Potential sun hours	462	429	375	344	296	285			
Total, worst case	409	943	649						
Sun reduction	0,61	0,67	0,44						
Oper. time red.	0,70	0,70	0,70						
Wind dir. red.	0,63	0,63	0,56						
Total reduction	0,27	0,29	0,17						
Total, real	109	277	111						

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: R76 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 17:50	06:58 (78) 17:16 (MT 14)	06:45 19:25	05:29 20:28
2	07:28 16:41	07:13 17:16	06:36 17:51	06:57 (80) 17:17 (MT 14)	06:44 19:26	05:28 20:29
3	07:28 16:42	07:12 17:17	06:34 17:52	06:53 (80) 17:16 (MT 14)	06:42 19:27	05:28 20:30
4	07:28 16:42	07:11 17:19	06:32 17:53	06:51 (80) 17:16 (MT 14)	06:40 19:28	05:27 20:31
5	07:28 16:43	07:10 17:20	06:31 17:55	06:50 (80) 17:16 (MT 14)	06:38 19:29	05:27 20:31
6	07:28 16:44	07:09 17:21	06:29 17:56	06:48 (80) 17:15 (MT 14)	06:37 19:31	05:27 20:32
7	07:28 16:45	07:08 17:22	06:28 17:57	06:47 (80) 17:15 (MT 14)	06:35 19:32	05:26 20:33
8	07:28 16:46	07:06 17:24	06:26 17:58	06:45 (80) 17:14 (MT 14)	06:33 19:33	05:26 20:33
9	07:28 16:47	07:05 17:25	06:24 17:59	06:43 (80) 17:13 (MT 14)	06:32 19:34	05:26 20:34
10	07:28 16:48	07:04 17:26	06:23 18:00	06:43 (80) 17:12 (MT 14)	06:30 19:35	05:26 20:34
11	07:27 16:49	07:03 17:28	06:21 18:02	06:42 (80) 17:10 (MT 14)	06:29 19:36	05:25 20:35
12	07:27 16:51	07:02 17:29	06:19 18:03	06:41 (80) 17:08 (MT 14)	06:27 19:37	05:25 20:35
13	07:27 16:52	07:00 17:30	06:18 18:04	06:40 (80) 17:06 (MT 14)	06:25 19:38	05:25 20:36
14	07:27 16:53	06:59 17:31	06:16 18:05	06:41 (80) 17:04 (MT 14)	06:24 19:39	05:25 20:36
15	07:26 16:54	06:58 17:33	06:14 18:06	06:41 (80) 17:00 (MT 14)	06:22 19:40	05:25 20:37
16	07:26 16:55	06:56 17:34	06:13 18:07	06:41 (80) 07:13 (80)	06:20 19:42	05:25 20:37
17	07:25 16:56	06:55 17:35	06:11 18:08	06:42 (80) 07:13 (80)	06:19 19:43	05:25 20:38
18	07:25 16:57	06:54 17:36	06:09 18:10	06:42 (80) 07:12 (80)	06:17 19:44	05:25 20:38
19	07:24 16:59	06:52 17:38	16:52 (MT 14) 06:07	06:42 (80) 07:10 (80)	06:16 19:45	05:25 20:38
20	07:24 17:00	06:51 17:39	16:48 (MT 14) 17:08 (MT 14)	06:06 18:12	06:14 19:46	05:25 20:39
21	07:23 17:01	06:49 17:40	16:47 (MT 14) 17:11 (MT 14)	06:04 18:13	06:13 19:47	05:26 20:39
22	07:22 17:02	06:48 17:41	16:44 (MT 14) 17:12 (MT 14)	06:02 18:14	06:11 19:48	05:26 20:39
23	07:22 17:03	06:46 17:43	16:43 (MT 14) 17:14 (MT 14)	06:01 18:15	06:10 19:49	05:26 20:39
24	07:21 17:05	06:45 17:44	07:04 (78) 17:14 (MT 14)	05:59 18:16	06:08 19:50	05:26 20:39
25	07:20 17:06	06:43 17:45	07:03 (78) 17:15 (MT 14)	05:57 18:17	06:07 19:51	05:27 20:39
26	07:19 17:07	06:42 17:46	07:01 (78) 17:16 (MT 14)	05:55 18:18	06:05 19:53	05:27 20:40
27	07:19 17:08	06:40 17:47	07:00 (78) 17:17 (MT 14)	05:54 18:20	06:04 19:54	05:27 20:40
28	07:18 17:10	06:39 17:49	06:58 (78) 17:16 (MT 14)	05:52 18:21	06:02 19:55	05:28 20:40
29	07:17 17:11		06:50 19:22	06:50 19:56	06:01 20:26	05:28 20:40
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40
31	07:15 17:13		06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Total, worst case		350	1085			
Sun reduction		0,46	0,44			
Oper. time red.		0,70	0,70			
Wind dir. red.		0,57	0,60			
Total reduction		0,18	0,19			
Total, real		64	201			

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: R76 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December		
1	05:29	05:53	06:25	06:56	07:21 (80)	06:32	07:07	
	20:39	20:20	19:36	18:44	17:47 (MT 14)	16:56	16:31	
2	05:29	05:54	06:26	06:57	07:20 (80)	06:33	07:09	
	20:39	20:19	19:34	18:42	17:48 (MT 14)	16:55	16:31	
3	05:30	05:55	06:27	06:59	07:20 (80)	06:34	07:10	
	20:39	20:18	19:32	18:41	17:49 (MT 14)	16:54	16:30	
4	05:30	05:56	06:28	07:00	07:20 (80)	06:35	07:11	
	20:39	20:16	19:31	18:39	17:50 (MT 14)	16:52	16:30	
5	05:31	05:57	06:29	07:01	07:21 (80)	06:37	07:12	
	20:39	20:15	19:29	18:37	17:50 (MT 14)	16:51	16:30	
6	05:32	05:58	06:30	07:02	07:22 (80)	06:38	07:13	
	20:38	20:14	19:27	18:36	17:51 (MT 14)	16:50	16:30	
7	05:32	06:00	06:31	07:03	07:23 (80)	06:39	07:14	
	20:38	20:13	19:26	18:34	17:51 (MT 14)	16:49	16:30	
8	05:33	06:01	06:32	07:04	07:24 (80)	06:40	07:14	
	20:38	20:11	19:24	18:32	17:51 (MT 14)	16:48	16:30	
9	05:34	06:02	06:34	07:05	07:26 (80)	06:42	07:15	
	20:37	20:10	19:22	18:31	17:51 (MT 14)	16:47	16:30	
10	05:34	06:03	06:35	07:06	07:27 (80)	06:43	07:16	
	20:37	20:09	19:20	18:29	17:51 (MT 14)	16:46	16:30	
11	05:35	06:04	06:36	07:07	07:28 (80)	06:44	07:17	
	20:37	20:08	19:19	18:27	17:51 (MT 14)	16:45	16:30	
12	05:36	06:05	06:37	07:08	07:31 (78)	06:45	07:18	
	20:36	20:06	19:17	18:26	17:50 (MT 14)	16:44	16:30	
13	05:36	06:06	06:38	07:09	07:31 (78)	06:46	07:19	
	20:36	20:05	19:15	18:24	17:50 (MT 14)	16:43	16:30	
14	05:37	06:07	06:39	07:11	07:31 (78)	06:48	07:20	
	20:35	20:03	19:14	18:22	17:49 (MT 14)	16:42	16:30	
15	05:38	06:08	06:40	07:12	07:32 (78)	06:49	07:20	
	20:34	20:02	19:12	18:21	17:48 (MT 14)	16:41	16:30	
16	05:39	06:09	06:41	07:13	07:34 (78)	06:50	07:21	
	20:34	20:01	19:10	18:19	17:48 (MT 14)	16:40	16:31	
17	05:40	06:10	06:42	07:14	07:35 (78)	06:51	07:22	
	20:33	19:59	19:08	18:18	17:47 (MT 14)	16:39	16:31	
18	05:40	06:11	06:43	07:15	07:37 (78)	06:53	07:22	
	20:33	19:58	19:07	18:16	17:45 (MT 14)	16:38	16:31	
19	05:41	06:12	06:44	07:16	17:14 (MT 14)	06:54	07:23	
	20:32	19:56	19:05	18:15	17:44 (MT 14)	16:38	16:32	
20	05:42	06:13	06:45	07:17	17:15 (MT 14)	06:55	07:24	
	20:31	19:55	19:03	18:13	17:42 (MT 14)	16:37	16:32	
21	05:43	06:14	06:46	07:19	17:18 (MT 14)	06:56	07:24	
	20:30	19:53	19:01	18:12	17:41 (MT 14)	16:36	16:32	
22	05:44	06:15	06:47	07:30 (80)	07:20	17:20 (MT 14)	06:57	07:25
	20:29	19:52	19:00	18:10	17:38 (MT 14)	16:35	16:33	
23	05:45	06:16	06:48	07:28 (80)	07:21	17:23 (MT 14)	06:58	07:25
	20:29	19:50	18:58	18:09	17:34 (MT 14)	16:35	16:33	
24	05:46	06:17	06:49	07:26 (80)	07:22	07:00	07:26	
	20:28	19:49	18:56	18:07	17:34 (MT 14)	16:34	16:34	
25	05:47	06:18	06:50	07:24 (80)	06:23	07:01	07:26	
	20:27	19:47	18:54	17:06	17:34 (MT 14)	16:34	16:35	
26	05:48	06:19	06:51	07:23 (80)	06:24	07:02	07:26	
	20:26	19:45	18:53	17:04	17:34 (MT 14)	16:33	16:35	
27	05:49	06:20	06:52	07:22 (80)	06:26	07:03	07:27	
	20:25	19:44	18:51	17:03	17:34 (MT 14)	16:33	16:36	
28	05:50	06:21	06:53	07:22 (80)	06:27	07:04	07:27	
	20:24	19:42	18:49	17:02	17:38 (MT 14)	16:32	16:36	
29	05:51	06:22	06:54	07:22 (80)	06:28	07:05	07:27	
	20:23	19:41	18:47	17:00	17:43 (MT 14)	16:32	16:37	
30	05:51	06:23	06:55	07:21 (80)	06:29	07:06	07:28	
	20:22	19:39	18:46	16:59	17:46 (MT 14)	16:31	16:38	
31	05:52	06:24		06:31			07:28	
	20:21	19:37		16:58			16:39	
Potential sun hours	461	429	375	344	296	285		
Total, worst case			335		1128			
Sun reduction			0,58		0,44			
Oper. time red.			0,70		0,70			
Wind dir. red.			0,62		0,59			
Total reduction			0,25		0,18			
Total, real			84		202			

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: R78 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:40	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30
4	07:28 16:43	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:11 16:30
5	07:28 16:43	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	07:12 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:04	05:27 20:32	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:45	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:14 16:30
8	07:28 16:46	07:07 17:24	06:26 17:58	06:34 19:33	05:49 20:06	05:26 20:33	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:15 16:30
10	07:28 16:48	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:35	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30
11	07:28 16:49	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	07:19 16:30
14	07:27 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:54 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	07:23 16:31
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:27 20:40	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:20 17:07	06:42 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:04	07:02 16:33	07:27 16:35
27	07:19 17:08	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:28 16:37
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	07:28 16:38
31	07:15 17:14		06:47 19:24		05:29 20:28		05:53 20:21	06:24 19:37		06:31 16:58		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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

SHADOW - Calendar

Shadow receptor: R79 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

January		February		March		April		May		June	
1	07:28 16:40	08:20 (MT 16) 09:06 (MT 16)	07:14 17:15	8	08:49 (MT 16) 08:57 (MT 16)	06:37 17:50	06:45 19:25	05:58 19:58		05:29 20:29	06:11 (MT 22) 07:04 (MT 22)
2	07:28 16:41	08:20 (MT 16) 09:06 (MT 16)	07:13 17:16			06:36 17:51	06:44 19:26	05:57 19:59		05:28 20:29	06:11 (MT 22) 07:04 (MT 22)
3	07:29 16:42	08:20 (MT 16) 09:07 (MT 16)	07:12 17:17			06:34 17:52	06:42 19:27	05:56 20:00		05:28 20:30	06:11 (MT 22) 07:05 (MT 22)
4	07:29 16:42	08:21 (MT 16) 09:07 (MT 16)	07:11 17:19			06:32 17:53	06:40 19:28	05:54 20:01		05:27 20:31	06:11 (MT 22) 07:05 (MT 22)
5	07:29 16:43	08:21 (MT 16) 09:08 (MT 16)	07:10 17:20			06:31 17:55	06:39 19:30	05:53 20:02		05:27 20:31	06:11 (MT 22) 07:05 (MT 22)
6	07:28 16:44	08:22 (MT 16) 09:09 (MT 16)	07:09 17:21			06:29 17:56	06:37 19:31	05:52 20:04		05:27 20:32	06:12 (MT 22) 07:06 (MT 22)
7	07:28 16:45	08:23 (MT 16) 09:09 (MT 16)	07:08 17:22			06:28 17:57	06:35 19:32	05:51 20:05		05:26 20:33	06:11 (MT 22) 07:05 (MT 22)
8	07:28 16:46	08:23 (MT 16) 09:10 (MT 16)	07:07 17:24			06:26 17:58	06:34 19:33	05:49 20:06	06:34 (MT 22)	05:26 20:33	06:11 (MT 22) 07:05 (MT 22)
9	07:28 16:47	08:23 (MT 16) 09:09 (MT 16)	07:05 17:25			06:24 17:59	06:32 19:34	05:48 20:07	4 06:38 (MT 22)	05:26 20:34	06:12 (MT 22) 07:06 (MT 22)
10	07:28 16:48	08:24 (MT 16) 09:10 (MT 16)	07:04 17:26			06:23 18:00	06:30 19:35	05:47 20:08	16 06:25 (MT 22)	05:26 20:35	06:12 (MT 22) 07:06 (MT 22)
11	07:28 16:49	08:24 (MT 16) 09:11 (MT 16)	07:03 17:28			06:21 18:02	06:29 19:36	05:46 20:09	22 06:23 (MT 22)	05:25 20:35	06:12 (MT 22) 07:07 (MT 22)
12	07:27 16:51	08:24 (MT 16) 09:10 (MT 16)	07:02 17:29			06:19 18:03	06:27 19:37	05:45 20:10	27 06:21 (MT 22)	05:25 20:36	06:13 (MT 22) 07:07 (MT 22)
13	07:27 16:52	08:25 (MT 16) 09:11 (MT 16)	07:00 17:30			06:18 18:04	06:25 19:38	05:44 20:11	30 06:19 (MT 22)	05:25 20:36	06:13 (MT 22) 07:07 (MT 22)
14	07:27 16:53	08:25 (MT 16) 09:11 (MT 16)	06:59 17:31			06:16 18:05	06:24 19:39	05:43 20:12	33 06:19 (MT 22)	05:25 20:37	06:13 (MT 22) 07:07 (MT 22)
15	07:26 16:54	08:26 (MT 16) 09:11 (MT 16)	06:58 17:33			06:14 18:06	06:22 19:41	05:42 20:13	35 06:17 (MT 22)	05:25 20:37	06:13 (MT 22) 07:07 (MT 22)
16	07:26 16:55	08:26 (MT 16) 09:11 (MT 16)	06:56 17:34			06:13 18:07	06:21 19:42	05:41 20:14	38 06:16 (MT 22)	05:25 20:37	06:13 (MT 22) 07:08 (MT 22)
17	07:25 16:56	08:27 (MT 16) 09:11 (MT 16)	06:55 17:35			06:11 18:08	06:19 19:43	05:40 20:15	40 06:15 (MT 22)	05:25 20:38	06:14 (MT 22) 07:08 (MT 22)
18	07:25 16:57	08:28 (MT 16) 09:11 (MT 16)	06:54 17:36			06:09 18:10	06:17 19:44	05:39 20:16	42 06:14 (MT 22)	05:25 20:38	06:14 (MT 22) 07:08 (MT 22)
19	07:24 16:59	08:29 (MT 16) 09:12 (MT 16)	06:52 17:38			06:08 18:11	06:16 19:45	05:38 20:17	43 06:14 (MT 22)	05:25 20:39	06:14 (MT 22) 07:08 (MT 22)
20	07:24 17:00	08:29 (MT 16) 09:11 (MT 16)	06:51 17:39			06:06 18:12	06:14 19:46	05:37 20:18	44 06:14 (MT 22)	05:25 20:39	06:14 (MT 22) 07:08 (MT 22)
21	07:23 17:01	08:30 (MT 16) 09:10 (MT 16)	06:49 17:40			06:04 18:13	06:13 19:47	05:36 20:19	45 06:13 (MT 22)	05:26 20:39	06:14 (MT 22) 07:08 (MT 22)
22	07:23 17:02	08:31 (MT 16) 09:11 (MT 16)	06:48 17:41			06:02 18:14	06:11 19:48	05:35 20:20	47 06:12 (MT 22)	05:26 20:39	06:15 (MT 22) 07:09 (MT 22)
23	07:22 17:03	08:32 (MT 16) 09:10 (MT 16)	06:46 17:43			06:01 18:15	06:10 19:49	05:34 20:21	48 06:13 (MT 22)	05:26 20:39	06:15 (MT 22) 07:09 (MT 22)
24	07:21 17:05	08:33 (MT 16) 09:10 (MT 16)	06:45 17:44			05:59 18:16	06:08 19:50	05:34 20:22	48 07:01 (MT 22)	05:26 20:40	06:15 (MT 22) 07:09 (MT 22)
25	07:20 17:06	08:34 (MT 16) 09:09 (MT 16)	06:43 17:45			05:57 18:17	06:07 19:52	05:33 20:23	50 07:02 (MT 22)	05:26 20:40	06:15 (MT 22) 07:09 (MT 22)
26	07:20 17:07	08:35 (MT 16) 09:08 (MT 16)	06:42 17:46			05:56 18:19	06:05 19:53	05:32 20:24	50 06:12 (MT 22)	05:27 20:40	06:15 (MT 22) 07:10 (MT 22)
27	07:19 17:08	08:36 (MT 16) 09:07 (MT 16)	06:40 17:47			05:54 18:20	06:04 19:54	05:32 20:24	51 06:11 (MT 22)	05:27 20:40	06:15 (MT 22) 07:10 (MT 22)
28	07:18 17:10	08:38 (MT 16) 09:07 (MT 16)	06:39 17:49			05:52 18:21	06:03 19:55	05:31 20:25	52 07:03 (MT 22)	05:28 20:40	06:16 (MT 22) 07:10 (MT 22)
29	07:17 17:11	08:40 (MT 16) 09:05 (MT 16)				06:50 19:22	06:01 19:56	05:30 20:26	52 06:11 (MT 22)	05:28 20:40	06:16 (MT 22) 07:10 (MT 22)
30	07:16 17:12	08:42 (MT 16) 09:03 (MT 16)				06:49 19:23	06:00 19:57	05:30 20:27	52 06:11 (MT 22)	05:28 20:40	06:16 (MT 22) 07:10 (MT 22)
31	07:15 17:14	08:44 (MT 16) 09:01 (MT 16)				06:47 19:24		05:29 20:28	53 06:11 (MT 22)		
Potential sun hours	295	296				369	400	450		455	
Total, worst case	1257	8						974		1622	
Sun reduction	0,44	0,46						0,47		0,54	
Oper. time red.	0,70	0,70						0,70		0,70	
Wind dir. red.	0,66	0,66						0,57		0,57	
Total reduction	0,21	0,21						0,19		0,22	
Total, real	261	2						181		350	

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: R79 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December		
1	05:29	06:16 (MT 22)	05:53	06:33 (MT 22)	06:25	06:56	06:32				07:08	08:06 (MT 16)	
	20:40	55	07:11 (MT 22)	20:20	28	07:01 (MT 22)	19:36	18:44	16:56		16:31	47	08:53 (MT 16)
2	05:29	06:16 (MT 22)	05:54	06:35 (MT 22)	06:26	06:58	06:33				07:09	08:07 (MT 16)	
	20:40	54	07:10 (MT 22)	20:19	24	06:59 (MT 22)	19:34	18:42	16:55		16:31	46	08:53 (MT 16)
3	05:30	06:17 (MT 22)	05:55	06:37 (MT 22)	06:27	06:59	06:34				07:10	08:07 (MT 16)	
	20:39	54	07:11 (MT 22)	20:18	20	06:57 (MT 22)	19:32	18:41	16:54		16:30	46	08:53 (MT 16)
4	05:30	06:17 (MT 22)	05:56	06:40 (MT 22)	06:28	07:00	06:36				07:11	08:07 (MT 16)	
	20:39	54	07:11 (MT 22)	20:17	13	06:53 (MT 22)	19:31	18:39	16:53		16:30	47	08:54 (MT 16)
5	05:31	06:17 (MT 22)	05:57			06:29	07:01	06:37			07:12	08:08 (MT 16)	
	20:39	54	07:11 (MT 22)	20:15		19:29	18:37	16:51			16:30	46	08:54 (MT 16)
6	05:32	06:18 (MT 22)	05:59			06:31	07:02	06:38			07:13	08:08 (MT 16)	
	20:39	54	07:12 (MT 22)	20:14		19:27	18:36	16:50			16:30	47	08:55 (MT 16)
7	05:32	06:17 (MT 22)	06:00			06:32	07:03	06:39			07:14	08:08 (MT 16)	
	20:38	54	07:11 (MT 22)	20:13		19:26	18:34	16:49			16:30	47	08:55 (MT 16)
8	05:33	06:18 (MT 22)	06:01			06:33	07:04	06:40			07:15	08:09 (MT 16)	
	20:38	54	07:12 (MT 22)	20:12		19:24	18:32	16:48			16:30	47	08:56 (MT 16)
9	05:34	06:19 (MT 22)	06:02			06:34	07:05	06:42			07:16	08:10 (MT 16)	
	20:38	53	07:12 (MT 22)	20:10		19:22	18:31	16:47			16:30	46	08:56 (MT 16)
10	05:34	06:18 (MT 22)	06:03			06:35	07:06	06:43		08:19 (MT 16)	07:16	08:10 (MT 16)	
	20:37	54	07:12 (MT 22)	20:09		19:21	18:29	16:46	9	08:28 (MT 16)	16:30	47	08:57 (MT 16)
11	05:35	06:19 (MT 22)	06:04			06:36	07:07	06:44		08:15 (MT 16)	07:17	08:10 (MT 16)	
	20:37	53	07:12 (MT 22)	20:08		19:19	18:27	16:45	17	08:32 (MT 16)	16:30	46	08:56 (MT 16)
12	05:36	06:19 (MT 22)	06:05			06:37	07:09	06:45		08:13 (MT 16)	07:18	08:10 (MT 16)	
	20:36	53	07:12 (MT 22)	20:06		19:17	18:26	16:44	21	08:34 (MT 16)	16:30	47	08:57 (MT 16)
13	05:36	06:19 (MT 22)	06:06			06:38	07:10	06:47		08:12 (MT 16)	07:19	08:11 (MT 16)	
	20:36	53	07:12 (MT 22)	20:05		19:15	18:24	16:43	25	08:37 (MT 16)	16:30	46	08:57 (MT 16)
14	05:37	06:20 (MT 22)	06:07			06:39	07:11	06:48		08:10 (MT 16)	07:20	08:12 (MT 16)	
	20:35	52	07:12 (MT 22)	20:04		19:14	18:22	16:42	29	08:39 (MT 16)	16:30	46	08:58 (MT 16)
15	05:38	06:20 (MT 22)	06:08			06:40	07:12	06:49		08:09 (MT 16)	07:21	08:13 (MT 16)	
	20:35	52	07:12 (MT 22)	20:02		19:12	18:21	16:41	31	08:40 (MT 16)	16:30	46	08:59 (MT 16)
16	05:39	06:21 (MT 22)	06:09			06:41	07:13	06:50		08:07 (MT 16)	07:21	08:12 (MT 16)	
	20:34	51	07:12 (MT 22)	20:01		19:10	18:19	16:40	34	08:41 (MT 16)	16:31	46	08:58 (MT 16)
17	05:40	06:21 (MT 22)	06:10			06:42	07:14	06:51		08:08 (MT 16)	07:22	08:13 (MT 16)	
	20:33	51	07:12 (MT 22)	19:59		19:08	18:18	16:39	35	08:43 (MT 16)	16:31	46	08:59 (MT 16)
18	05:40	06:21 (MT 22)	06:11			06:43	07:15	06:53		08:07 (MT 16)	07:23	08:14 (MT 16)	
	20:33	50	07:11 (MT 22)	19:58		19:07	18:16	16:38	37	08:44 (MT 16)	16:31	46	09:00 (MT 16)
19	05:41	06:21 (MT 22)	06:12			06:44	07:16	06:54		08:06 (MT 16)	07:23	08:14 (MT 16)	
	20:32	50	07:11 (MT 22)	19:56		19:05	18:15	16:38	38	08:44 (MT 16)	16:32	46	09:00 (MT 16)
20	05:42	06:22 (MT 22)	06:13			06:45	07:18	06:55		08:06 (MT 16)	07:24	08:15 (MT 16)	
	20:31	49	07:11 (MT 22)	19:55		19:03	18:13	16:37	40	08:46 (MT 16)	16:32	46	09:01 (MT 16)
21	05:43	06:23 (MT 22)	06:14			06:46	07:19	06:56		08:06 (MT 16)	07:24	08:15 (MT 16)	
	20:30	48	07:11 (MT 22)	19:53		19:01	18:12	16:36	41	08:47 (MT 16)	16:32	46	09:01 (MT 16)
22	05:44	06:23 (MT 22)	06:15			06:47	07:20	06:57		08:05 (MT 16)	07:25	08:16 (MT 16)	
	20:30	48	07:11 (MT 22)	19:52		19:00	18:10	16:35	42	08:47 (MT 16)	16:33	46	09:02 (MT 16)
23	05:45	06:24 (MT 22)	06:16			06:48	07:21	06:59		08:05 (MT 16)	07:25	08:16 (MT 16)	
	20:29	46	07:10 (MT 22)	19:50		18:58	18:09	16:35	43	08:48 (MT 16)	16:33	46	09:02 (MT 16)
24	05:46	06:25 (MT 22)	06:17			06:49	07:22	07:00		08:06 (MT 16)	07:26	08:16 (MT 16)	
	20:28	45	07:10 (MT 22)	19:49		18:56	18:07	16:34	43	08:49 (MT 16)	16:34	46	09:02 (MT 16)
25	05:47	06:25 (MT 22)	06:18			06:50	06:23	07:01		08:05 (MT 16)	07:26	08:17 (MT 16)	
	20:27	43	07:08 (MT 22)	19:47		18:54	17:06	16:34	44	08:49 (MT 16)	16:35	46	09:03 (MT 16)
26	05:48	06:25 (MT 22)	06:19			06:51	06:25	07:02		08:05 (MT 16)	07:27	08:17 (MT 16)	
	20:26	43	07:08 (MT 22)	19:46		18:53	17:04	16:33	45	08:50 (MT 16)	16:35	46	09:03 (MT 16)
27	05:49	06:26 (MT 22)	06:20			06:52	06:26	07:03		08:05 (MT 16)	07:27	08:17 (MT 16)	
	20:25	41	07:07 (MT 22)	19:44		18:51	17:03	16:33	45	08:50 (MT 16)	16:36	46	09:03 (MT 16)
28	05:50	06:27 (MT 22)	06:21			06:53	06:27	07:04		08:05 (MT 16)	07:27	08:18 (MT 16)	
	20:24	39	07:06 (MT 22)	19:42		18:49	17:02	16:32	46	08:51 (MT 16)	16:36	46	09:04 (MT 16)
29	05:51	06:28 (MT 22)	06:22			06:54	06:28	07:05		08:05 (MT 16)	07:28	08:19 (MT 16)	
	20:23	37	07:05 (MT 22)	19:41		18:48	17:00	16:32	46	08:51 (MT 16)	16:37	46	09:05 (MT 16)
30	05:52	06:30 (MT 22)	06:23			06:55	06:29	07:07		08:06 (MT 16)	07:28	08:19 (MT 16)	
	20:22	34	07:04 (MT 22)	19:39		18:46	16:59	16:31	46	08:52 (MT 16)	16:38	46	09:05 (MT 16)
31	05:52	06:31 (MT 22)	06:24				06:31				07:28	08:19 (MT 16)	
	20:21	32	07:03 (MT 22)	19:37			16:58				16:39	46	09:05 (MT 16)
Potential sun hours	462		429			375		344		296		285	
Total, worst case	1510		85					757				1433	
Sun reduction	0,61		0,67					0,41				0,36	
Oper. time red.	0,70		0,70					0,70				0,70	
Wind dir. red.	0,57		0,57					0,66				0,66	
Total reduction	0,24		0,27					0,19				0,17	
Total, real	366		23					144				245	

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: R82 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28	07:14	16:04 (MT 17) 06:37	06:45	05:58	05:29
	16:40	17:15	21 16:25 (MT 17) 17:50	19:25	19:58	20:28
2	07:28	07:13	16:05 (MT 17) 06:36	06:44	05:57	05:28
	16:41	17:16	19 16:24 (MT 17) 17:51	19:26	19:59	20:29
3	07:28	07:12	16:07 (MT 17) 06:34	06:42	05:56	05:28
	16:41	17:17	16 16:23 (MT 17) 17:52	19:27	20:00	20:30
4	07:28	16:05 (MT 17) 07:11	16:10 (MT 17) 06:32	06:40	05:54	05:27
	16:42	1 16:06 (MT 17) 17:19	11 16:21 (MT 17) 17:53	19:28	20:01	20:31
5	07:28	16:03 (MT 17) 07:10	06:31	17:10 (MT 16) 06:38	05:53	05:27
	16:43	7 16:10 (MT 17) 17:20	17:55	13 17:23 (MT 16) 19:29	20:02	20:31
6	07:28	16:02 (MT 17) 07:09	06:29	17:07 (MT 16) 06:37	05:52	05:26
	16:44	10 16:12 (MT 17) 17:21	17:56	19 17:26 (MT 16) 19:31	20:03	20:32
7	07:28	16:01 (MT 17) 07:08	06:28	17:05 (MT 16) 06:35	05:51	05:26
	16:45	13 16:14 (MT 17) 17:22	17:57	23 17:28 (MT 16) 19:32	20:05	20:33
8	07:28	16:00 (MT 17) 07:07	06:26	17:03 (MT 16) 06:33	05:49	05:26
	16:46	15 16:15 (MT 17) 17:24	17:58	26 17:29 (MT 16) 19:33	20:06	20:33
9	07:28	15:59 (MT 17) 07:05	06:24	17:01 (MT 16) 06:32	05:48	05:26
	16:47	17 16:16 (MT 17) 17:25	17:59	29 17:30 (MT 16) 19:34	20:07	20:34
10	07:28	15:59 (MT 17) 07:04	06:23	17:01 (MT 16) 06:30	05:47	05:25
	16:48	19 16:18 (MT 17) 17:26	18:00	30 17:31 (MT 16) 19:35	20:08	20:35
11	07:28	15:59 (MT 17) 07:03	06:21	16:59 (MT 16) 06:29	05:46	05:25
	16:49	20 16:19 (MT 17) 17:28	18:02	32 17:31 (MT 16) 19:36	20:09	20:35
12	07:27	15:58 (MT 17) 07:02	06:19	16:58 (MT 16) 06:27	05:45	05:25
	16:50	22 16:20 (MT 17) 17:29	18:03	33 17:31 (MT 16) 19:37	20:10	20:36
13	07:27	15:59 (MT 17) 07:00	06:18	16:58 (MT 16) 06:25	05:44	05:25
	16:52	22 16:21 (MT 17) 17:30	18:04	34 17:32 (MT 16) 19:38	20:11	20:36
14	07:27	15:58 (MT 17) 06:59	06:16	16:57 (MT 16) 06:24	05:43	05:25
	16:53	23 16:21 (MT 17) 17:31	18:05	35 17:32 (MT 16) 19:39	20:12	20:37
15	07:26	15:58 (MT 17) 06:58	06:14	16:57 (MT 16) 06:22	05:42	05:25
	16:54	25 16:23 (MT 17) 17:33	18:06	35 17:32 (MT 16) 19:40	20:13	20:37
16	07:26	15:58 (MT 17) 06:56	06:13	16:56 (MT 16) 06:20	05:41	05:25
	16:55	25 16:23 (MT 17) 17:34	18:07	35 17:31 (MT 16) 19:42	20:14	20:37
17	07:25	15:58 (MT 17) 06:55	06:11	16:57 (MT 16) 06:19	05:40	05:25
	16:56	26 16:24 (MT 17) 17:35	18:08	34 17:31 (MT 16) 19:43	20:15	20:38
18	07:25	15:58 (MT 17) 06:54	06:09	16:57 (MT 16) 06:17	05:39	05:25
	16:57	27 16:25 (MT 17) 17:36	18:10	33 17:30 (MT 16) 19:44	20:16	20:38
19	07:24	15:58 (MT 17) 06:52	06:07	16:57 (MT 16) 06:16	05:38	05:25
	16:58	28 16:26 (MT 17) 17:38	18:11	32 17:29 (MT 16) 19:45	20:17	20:38
20	07:24	15:58 (MT 17) 06:51	06:06	16:58 (MT 16) 06:14	05:37	05:25
	17:00	28 16:26 (MT 17) 17:39	18:12	31 17:29 (MT 16) 19:46	20:18	20:39
21	07:23	15:58 (MT 17) 06:49	06:04	16:58 (MT 16) 06:13	05:36	05:25
	17:01	28 16:26 (MT 17) 17:40	18:13	30 17:28 (MT 16) 19:47	20:19	20:39
22	07:22	15:59 (MT 17) 06:48	06:02	16:58 (MT 16) 06:11	05:35	05:26
	17:02	28 16:27 (MT 17) 17:41	18:14	28 17:26 (MT 16) 19:48	20:20	20:39
23	07:22	15:59 (MT 17) 06:46	06:01	16:59 (MT 16) 06:10	05:34	05:26
	17:03	28 16:27 (MT 17) 17:43	18:15	25 17:24 (MT 16) 19:49	20:21	20:39
24	07:21	15:59 (MT 17) 06:45	05:59	17:01 (MT 16) 06:08	05:34	05:26
	17:05	29 16:28 (MT 17) 17:44	18:16	22 17:23 (MT 16) 19:50	20:22	20:39
25	07:20	15:59 (MT 17) 06:43	05:57	17:03 (MT 16) 06:07	05:33	05:26
	17:06	29 16:28 (MT 17) 17:45	18:17	17 17:20 (MT 16) 19:51	20:23	20:40
26	07:20	15:59 (MT 17) 06:42	05:55	17:06 (MT 16) 06:05	05:32	05:27
	17:07	28 16:27 (MT 17) 17:46	18:18	10 17:16 (MT 16) 19:53	20:23	20:40
27	07:19	16:00 (MT 17) 06:40	05:54	06:04	05:31	05:27
	17:08	27 16:27 (MT 17) 17:47	18:20	19:54	20:24	20:40
28	07:18	16:00 (MT 17) 06:39	05:52	06:02	05:31	05:27
	17:10	27 16:27 (MT 17) 17:49	18:21	19:55	20:25	20:40
29	07:17	16:02 (MT 17)	06:50	06:01	05:30	05:28
	17:11	26 16:28 (MT 17)	19:22	19:56	20:26	20:40
30	07:16	16:03 (MT 17)	06:49	06:00	05:30	05:28
	17:12	24 16:27 (MT 17)	19:23	19:57	20:27	20:40
31	07:15	16:04 (MT 17)	06:47	06:00	05:29	05:28
	17:13	23 16:27 (MT 17)	19:24	20:28	20:28	20:40
Potential sun hours	295	296	369	400	450	455
Total, worst case	625	67	606			
Sun reduction	0,44	0,46	0,44			
Oper. time red.	0,70	0,70	0,70			
Wind dir. red.	0,56	0,56	0,58			
Total reduction	0,17	0,18	0,18			
Total, real	108	12	108			

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: R82 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December			
1	05:29	05:53	06:25	06:56	17:38 (MT 16)	06:32	07:08	15:41 (MT 17)	
	20:40	20:20	19:36	18:44	33 18:11 (MT 16)	16:56	16:31	20 16:01 (MT 17)	
2	05:29	05:54	06:26	06:57	17:38 (MT 16)	06:33	07:09	15:42 (MT 17)	
	20:39	20:19	19:34	18:42	32 18:10 (MT 16)	16:55	16:31	19 16:01 (MT 17)	
3	05:30	05:55	06:27	06:59	17:38 (MT 16)	06:34	07:10	15:43 (MT 17)	
	20:39	20:18	19:32	18:41	31 18:09 (MT 16)	16:54	16:30	17 16:00 (MT 17)	
4	05:30	05:56	06:28	07:00	17:38 (MT 16)	06:35	07:11	15:45 (MT 17)	
	20:39	20:16	19:31	18:39	30 18:08 (MT 16)	16:52	16:30	15 16:00 (MT 17)	
5	05:31	05:57	06:29	07:01	17:39 (MT 16)	06:37	07:12	15:46 (MT 17)	
	20:39	20:15	19:29	18:37	27 18:06 (MT 16)	16:51	16:30	13 15:59 (MT 17)	
6	05:32	05:58	06:30	07:02	17:40 (MT 16)	06:38	07:13	15:48 (MT 17)	
	20:39	20:14	19:27	18:36	25 18:05 (MT 16)	16:50	16:30	10 15:58 (MT 17)	
7	05:32	05:59	06:31	07:03	17:41 (MT 16)	06:39	15:40 (MT 17)	07:14	15:50 (MT 17)
	20:38	20:13	19:26	18:34	21 18:02 (MT 16)	16:49	12 15:52 (MT 17)	16:30	7 15:57 (MT 17)
8	05:33	06:00	06:32	07:04	17:43 (MT 16)	06:40	15:38 (MT 17)	07:15	15:53 (MT 17)
	20:38	20:12	19:24	18:32	17 18:00 (MT 16)	16:48	16 15:54 (MT 17)	16:30	2 15:55 (MT 17)
9	05:34	06:01	06:34	07:05	17:48 (MT 16)	06:42	15:36 (MT 17)	07:15	
	20:38	20:10	19:22	18:31	8 17:56 (MT 16)	16:47	19 15:55 (MT 17)	16:30	
10	05:34	06:03	06:35	07:06		06:43	15:35 (MT 17)	07:16	
	20:37	20:09	19:20	18:29		16:46	21 15:56 (MT 17)	16:30	
11	05:35	06:04	06:36	07:07		06:44	15:35 (MT 17)	07:17	
	20:37	20:08	19:19	18:27		16:45	23 15:58 (MT 17)	16:30	
12	05:36	06:05	06:37	07:08		06:45	15:34 (MT 17)	07:18	
	20:36	20:06	19:17	18:26		16:44	24 15:58 (MT 17)	16:30	
13	05:36	06:06	06:38	07:10		06:47	15:33 (MT 17)	07:19	
	20:36	20:05	19:15	18:24		16:43	26 15:59 (MT 17)	16:30	
14	05:37	06:07	06:39	07:11		06:48	15:33 (MT 17)	07:20	
	20:35	20:03	19:14	18:22		16:42	27 16:00 (MT 17)	16:30	
15	05:38	06:08	06:40	07:12		06:49	15:33 (MT 17)	07:20	
	20:35	20:02	19:12	18:21		16:41	27 16:00 (MT 17)	16:30	
16	05:39	06:09	06:41	07:13		06:50	15:32 (MT 17)	07:21	
	20:34	20:01	19:10	18:19		16:40	28 16:00 (MT 17)	16:30	
17	05:40	06:10	06:42	17:56 (MT 16)	07:14	06:51	15:33 (MT 17)	07:22	
	20:33	19:59	19:08	7 18:03 (MT 16)	18:18	16:39	29 16:02 (MT 17)	16:31	
18	05:40	06:11	06:43	17:51 (MT 16)	07:15	06:53	15:33 (MT 17)	07:23	
	20:33	19:58	19:07	16 18:07 (MT 16)	18:16	16:38	29 16:02 (MT 17)	16:31	
19	05:41	06:12	06:44	17:48 (MT 16)	07:16	06:54	15:33 (MT 17)	07:23	
	20:32	19:56	19:05	21 18:09 (MT 16)	18:15	16:37	28 16:01 (MT 17)	16:31	
20	05:42	06:13	06:45	17:46 (MT 16)	07:18	06:55	15:33 (MT 17)	07:24	
	20:31	19:55	19:03	24 18:10 (MT 16)	18:13	16:37	28 16:01 (MT 17)	16:32	
21	05:43	06:14	06:46	17:44 (MT 16)	07:19	06:56	15:34 (MT 17)	07:24	
	20:30	19:53	19:01	27 18:11 (MT 16)	18:12	16:36	28 16:02 (MT 17)	16:32	
22	05:44	06:15	06:47	17:43 (MT 16)	07:20	06:57	15:34 (MT 17)	07:25	
	20:30	19:52	19:00	29 18:12 (MT 16)	18:10	16:35	28 16:02 (MT 17)	16:33	
23	05:45	06:16	06:48	17:41 (MT 16)	07:21	06:59	15:34 (MT 17)	07:25	
	20:29	19:50	18:58	31 18:12 (MT 16)	18:09	16:35	28 16:02 (MT 17)	16:33	
24	05:46	06:17	06:49	17:40 (MT 16)	07:22	07:00	15:35 (MT 17)	07:26	
	20:28	19:49	18:56	33 18:13 (MT 16)	18:07	16:34	27 16:02 (MT 17)	16:34	
25	05:47	06:18	06:50	17:39 (MT 16)	06:23	07:01	15:36 (MT 17)	07:26	
	20:27	19:47	18:54	34 18:13 (MT 16)	17:06	16:34	26 16:02 (MT 17)	16:34	
26	05:48	06:19	06:51	17:38 (MT 16)	06:25	07:02	15:37 (MT 17)	07:27	
	20:26	19:45	18:53	35 18:13 (MT 16)	17:04	16:33	25 16:02 (MT 17)	16:35	
27	05:49	06:20	06:52	17:38 (MT 16)	06:26	07:03	15:37 (MT 17)	07:27	
	20:25	19:44	18:51	35 18:13 (MT 16)	17:03	16:33	25 16:02 (MT 17)	16:36	
28	05:49	06:21	06:53	17:38 (MT 16)	06:27	07:04	15:38 (MT 17)	07:27	
	20:24	19:42	18:49	35 18:13 (MT 16)	17:01	16:32	23 16:01 (MT 17)	16:36	
29	05:50	06:22	06:54	17:38 (MT 16)	06:28	07:05	15:39 (MT 17)	07:28	
	20:23	19:41	18:47	35 18:13 (MT 16)	17:00	16:32	22 16:01 (MT 17)	16:37	
30	05:51	06:23	06:55	17:38 (MT 16)	06:29	07:06	15:39 (MT 17)	07:28	
	20:22	19:39	18:46	34 18:12 (MT 16)	16:59	16:31	22 16:01 (MT 17)	16:38	
31	05:52	06:24		06:31				07:28	
	20:21	19:37		16:57				16:39	
Potential sun hours	462	429	375	344	296		285		
Total, worst case			396		224		103		
Sun reduction			0,58		0,44		0,36		
Oper. time red.			0,70		0,70		0,70		
Wind dir. red.			0,58		0,58		0,56		
Total reduction			0,23		0,18		0,16		
Total, real			93		40		93		15

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: R85 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 2 rows of values: 4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

Table with 13 columns (N to Sum) and 2 rows of values: 981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

Main shadow calculation table with columns for months (January-December) and rows for each day (07:28-17:13), including summary rows for potential sun hours and reductions.

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

Matrix defining columns: 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)

SHADOW - Calendar

Shadow receptor: R91 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (51)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	16:07 (MT 22) 16:39 (MT 22)	06:37 17:50	06:45 19:25	17:58 (MT 21) 18:39 (MT 21)
2	07:28 16:41	07:13 17:16	16:06 (MT 22) 16:39 (MT 22)	06:36 17:51	06:44 19:26	17:57 (MT 21) 18:38 (MT 21)
3	07:28 16:41	07:12 17:17	16:06 (MT 22) 16:39 (MT 22)	06:34 17:52	06:42 19:27	17:57 (MT 21) 18:37 (MT 21)
4	07:28 16:42	07:11 17:19	16:06 (MT 22) 16:39 (MT 22)	06:32 17:53	06:40 19:28	17:59 (MT 21) 18:37 (MT 21)
5	07:28 16:43	07:10 17:20	16:07 (MT 22) 16:40 (MT 22)	06:31 17:55	06:38 19:29	17:59 (MT 21) 18:35 (MT 21)
6	07:28 16:44	07:09 17:21	16:07 (MT 22) 16:40 (MT 22)	06:29 17:56	06:37 19:31	17:59 (MT 21) 18:34 (MT 21)
7	07:28 16:45	07:08 17:22	16:08 (MT 22) 16:40 (MT 22)	06:28 17:57	06:35 19:32	18:01 (MT 21) 18:33 (MT 21)
8	07:28 16:46	07:07 17:24	16:08 (MT 22) 16:40 (MT 22)	06:26 17:58	06:33 19:33	18:02 (MT 21) 18:31 (MT 21)
9	07:28 16:47	07:05 17:25	16:08 (MT 22) 16:39 (MT 22)	06:24 17:59	06:32 19:34	18:04 (MT 21) 18:29 (MT 21)
10	07:28 16:48	07:04 17:26	16:09 (MT 22) 16:38 (MT 22)	06:23 18:00	06:30 19:35	18:05 (MT 21) 18:27 (MT 21)
11	07:28 16:49	07:03 17:28	16:10 (MT 22) 16:38 (MT 22)	06:21 18:02	06:28 19:36	18:08 (MT 21) 18:23 (MT 21)
12	07:27 16:50	07:02 17:29	16:11 (MT 22) 16:36 (MT 22)	06:19 18:03	06:27 19:37	18:14 (MT 21) 18:17 (MT 21)
13	07:27 16:52	07:00 17:30	16:12 (MT 22) 16:35 (MT 22)	06:18 18:04	06:25 19:38	18:17 (MT 21) 18:11 (MT 21)
14	07:27 16:53	06:59 17:31	16:14 (MT 22) 16:34 (MT 22)	06:16 18:05	06:24 19:39	18:14 (MT 21) 18:05 (MT 21)
15	07:26 16:54	06:58 17:33	16:16 (MT 22) 16:32 (MT 22)	06:14 18:06	06:22 19:41	18:17 (MT 21) 18:03 (MT 21)
16	07:26 16:55	06:56 17:34	16:20 (MT 22) 16:29 (MT 22)	06:13 18:07	06:20 19:42	17:17 (MT 21) 17:28 (MT 21)
17	07:25 16:56	06:55 17:35	16:20 (MT 22) 18:07	06:11 18:08	06:19 19:43	17:13 (MT 21) 17:33 (MT 21)
18	07:25 16:57	06:54 17:36	16:20 (MT 22) 18:07	06:10 18:10	06:17 19:44	17:10 (MT 21) 17:35 (MT 21)
19	07:24 16:58	06:52 17:38	16:20 (MT 22) 18:07	06:09 18:11	06:17 19:45	17:10 (MT 21) 17:36 (MT 21)
20	07:24 17:00	06:51 17:39	16:20 (MT 22) 18:07	06:08 18:12	06:14 19:46	17:06 (MT 21) 17:38 (MT 21)
21	07:23 17:01	16:15 (MT 22) 16:24 (MT 22)	06:49 17:40	06:04 18:13	06:13 19:47	17:04 (MT 21) 17:39 (MT 21)
22	07:22 17:02	16:14 (MT 22) 16:28 (MT 22)	06:48 17:41	06:02 18:14	06:11 19:48	17:03 (MT 21) 17:39 (MT 21)
23	07:22 17:03	16:12 (MT 22) 16:30 (MT 22)	06:46 17:43	06:01 18:15	06:10 19:49	17:01 (MT 21) 17:40 (MT 21)
24	07:21 17:05	16:11 (MT 22) 16:31 (MT 22)	06:45 17:44	05:59 18:16	06:08 19:50	17:01 (MT 21) 17:41 (MT 21)
25	07:20 17:06	16:10 (MT 22) 16:32 (MT 22)	06:43 17:45	05:57 18:17	06:07 19:52	17:00 (MT 21) 17:41 (MT 21)
26	07:20 17:07	16:09 (MT 22) 16:34 (MT 22)	06:42 17:46	05:55 18:18	06:05 19:53	16:59 (MT 21) 17:40 (MT 21)
27	07:19 17:08	16:08 (MT 22) 16:34 (MT 22)	06:40 17:47	05:54 18:20	06:04 19:54	16:58 (MT 21) 17:40 (MT 21)
28	07:18 17:10	16:07 (MT 22) 16:35 (MT 22)	06:39 17:49	05:52 18:21	06:02 19:55	16:58 (MT 21) 17:41 (MT 21)
29	07:17 17:11	16:08 (MT 22) 16:37 (MT 22)	06:39 17:49	05:50 19:22	06:01 19:56	17:58 (MT 21) 18:40 (MT 21)
30	07:16 17:12	16:08 (MT 22) 16:38 (MT 22)	06:39 17:49	05:49 19:23	06:00 19:57	17:57 (MT 21) 18:40 (MT 21)
31	07:15 17:13	16:07 (MT 22) 16:39 (MT 22)	06:39 17:49	05:47 19:24	05:59 19:57	17:58 (MT 21) 18:40 (MT 21)
Potential sun hours	295	296	369	400	451	455
Total, worst case	253	442	561	357		
Sun reduction	0,44	0,46	0,44	0,48		
Oper. time red.	0,70	0,70	0,70	0,70		
Wind dir. red.	0,56	0,56	0,60	0,60		
Total reduction	0,17	0,18	0,18	0,20		
Total, real	44	79	104	72		

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: R91 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (51)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	20:40	05:53	20:20	06:25	18:07 (MT 21)	06:56	18:22 (MT 21)	06:32	15:39 (MT 22)	07:08	16:31
2	05:29	20:39	05:54	20:19	06:36	18:03 (MT 21)	06:57	18:25 (MT 21)	06:33	15:38 (MT 22)	07:09	16:31
3	05:30	20:39	05:55	20:18	06:27	18:01 (MT 21)	06:59	18:26 (MT 21)	06:34	15:37 (MT 22)	07:10	16:30
4	05:30	20:39	05:56	20:16	06:28	17:59 (MT 21)	07:00	18:28 (MT 21)	06:35	15:38 (MT 22)	07:11	16:30
5	05:31	20:39	05:57	20:15	06:29	17:57 (MT 21)	07:01	18:30 (MT 21)	06:37	15:37 (MT 22)	07:12	16:30
6	05:32	20:39	05:58	20:14	06:30	17:55 (MT 21)	07:02	18:31 (MT 21)	06:38	15:37 (MT 22)	07:13	16:30
7	05:32	20:38	05:59	20:13	06:31	17:54 (MT 21)	07:03	18:30 (MT 21)	06:39	15:37 (MT 22)	07:14	16:30
8	05:33	20:38	06:00	20:12	06:32	17:53 (MT 21)	07:04	18:31 (MT 21)	06:40	15:37 (MT 22)	07:15	16:30
9	05:33	20:38	06:01	20:10	06:34	17:52 (MT 21)	07:05	18:31 (MT 21)	06:42	15:37 (MT 22)	07:16	16:30
10	05:34	20:37	06:02	20:09	06:35	17:51 (MT 21)	07:06	18:31 (MT 21)	06:43	15:38 (MT 22)	07:16	16:30
11	05:35	20:37	06:04	20:08	06:36	17:50 (MT 21)	07:07	18:31 (MT 21)	06:44	15:38 (MT 22)	07:17	16:30
12	05:36	20:36	06:05	20:06	06:37	17:49 (MT 21)	07:08	18:31 (MT 21)	06:45	15:39 (MT 22)	07:18	16:30
13	05:36	20:36	06:06	20:05	06:38	17:49 (MT 21)	07:10	18:31 (MT 21)	06:47	15:39 (MT 22)	07:19	16:30
14	05:37	20:35	06:07	20:04	06:39	17:48 (MT 21)	07:11	18:30 (MT 21)	06:48	15:40 (MT 22)	07:20	16:30
15	05:38	20:35	06:08	20:02	06:40	17:48 (MT 21)	07:12	18:30 (MT 21)	06:49	15:41 (MT 22)	07:20	16:30
16	05:39	20:34	06:09	20:01	06:41	17:47 (MT 21)	07:13	18:30 (MT 21)	06:50	15:42 (MT 22)	07:21	16:30
17	05:40	20:33	06:10	19:59	06:42	17:47 (MT 21)	07:14	18:30 (MT 21)	06:51	15:44 (MT 22)	07:22	16:30
18	05:40	20:33	06:11	19:58	06:43	17:47 (MT 21)	07:15	18:29 (MT 21)	06:53	15:45 (MT 22)	07:23	16:31
19	05:41	20:32	06:12	19:56	06:44	17:47 (MT 21)	07:16	18:28 (MT 21)	06:54	15:46 (MT 22)	07:23	16:31
20	05:42	20:31	06:13	19:55	06:45	17:47 (MT 21)	07:18	18:27 (MT 21)	06:55	15:49 (MT 22)	07:24	16:32
21	05:43	20:30	06:14	19:53	06:46	17:48 (MT 21)	07:19	18:26 (MT 21)	06:56	15:51 (MT 22)	07:24	16:32
22	05:44	20:30	06:15	19:52	06:47	17:48 (MT 21)	07:20	18:25 (MT 21)	06:57	16:00 (MT 22)	07:25	16:33
23	05:45	20:29	06:16	19:50	06:48	17:49 (MT 21)	07:21	18:23 (MT 21)	06:59	16:03 (MT 22)	07:25	16:33
24	05:46	20:28	06:17	19:49	06:49	17:50 (MT 21)	07:22	18:22 (MT 21)	07:00	16:04 (MT 22)	07:26	16:34
25	05:47	20:27	06:18	19:47	06:50	17:52 (MT 21)	06:23	18:20 (MT 21)	07:01	16:06 (MT 22)	07:26	16:34
26	05:48	20:26	06:19	19:45	06:51	17:54 (MT 21)	06:25	18:18 (MT 21)	07:02	16:07 (MT 22)	07:27	16:35
27	05:48	20:25	06:20	19:44	06:52	18:15 (MT 21)	17:04	18:15 (MT 21)	07:03	15:59 (MT 22)	07:27	16:35
28	05:49	20:24	06:21	19:42	06:53	17:56 (MT 21)	06:26	18:11 (MT 21)	07:04	15:45 (MT 22)	07:27	16:36
29	05:50	20:23	06:22	19:41	06:54	18:11 (MT 21)	17:03	18:11 (MT 21)	07:05	16:02 (MT 22)	07:27	16:36
30	05:51	20:22	06:23	19:39	06:55	18:11 (MT 21)	17:02	18:11 (MT 21)	07:06	15:44 (MT 22)	07:28	16:37
31	05:52	20:21	06:24	18:13 (MT 21)	06:56	18:11 (MT 21)	17:01	18:11 (MT 21)	07:07	16:04 (MT 22)	07:28	16:37
Potential sun hours	462	429	4	18:17 (MT 21)	375	16:57	28	16:07 (MT 22)	296	16:31	16:39	285
Total, worst case			4		922				569			
Sun reduction			0,67		0,58				0,41			
Oper. time red.			0,70		0,70				0,70			
Wind dir. red.			0,60		0,60				0,56			
Total reduction			0,28		0,24				0,16			
Total, real			1		224				91			

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: R93 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	16:07 (MT 22) 16:39 (MT 22)	06:37 17:50	06:45 19:25	17:59 (MT 21) 19:58
2	07:28 16:41	07:13 17:16	16:06 (MT 22) 16:39 (MT 22)	06:36 17:51	06:44 19:26	17:58 (MT 21) 19:59
3	07:28 16:41	07:12 17:17	16:06 (MT 22) 16:39 (MT 22)	06:34 17:52	06:42 19:27	17:58 (MT 21) 20:00
4	07:28 16:42	07:11 17:19	16:06 (MT 22) 16:40 (MT 22)	06:32 17:53	06:40 19:28	17:59 (MT 21) 20:01
5	07:28 16:43	07:10 17:20	16:07 (MT 22) 16:40 (MT 22)	06:31 17:55	06:38 19:29	17:59 (MT 21) 20:02
6	07:28 16:44	07:09 17:21	16:07 (MT 22) 16:40 (MT 22)	06:29 17:56	06:37 19:31	17:59 (MT 21) 20:04
7	07:28 16:45	07:08 17:22	16:07 (MT 22) 16:40 (MT 22)	06:28 17:57	06:35 19:32	18:00 (MT 21) 20:05
8	07:28 16:46	07:07 17:24	16:08 (MT 22) 16:40 (MT 22)	06:26 17:58	06:33 19:33	18:00 (MT 21) 20:06
9	07:28 16:47	07:05 17:25	16:08 (MT 22) 16:39 (MT 22)	06:24 17:59	06:32 19:34	18:02 (MT 21) 20:07
10	07:28 16:48	07:04 17:26	16:09 (MT 22) 16:39 (MT 22)	06:23 18:00	06:30 19:35	18:03 (MT 21) 20:08
11	07:28 16:49	07:03 17:28	16:10 (MT 22) 16:39 (MT 22)	06:21 18:02	06:28 19:36	18:04 (MT 21) 20:09
12	07:27 16:50	07:02 17:29	16:10 (MT 22) 16:37 (MT 22)	06:19 18:03	06:27 19:37	18:06 (MT 21) 20:10
13	07:27 16:52	07:00 17:30	16:12 (MT 22) 16:37 (MT 22)	06:18 18:04	06:25 19:38	18:08 (MT 21) 20:11
14	07:27 16:53	06:59 17:31	16:13 (MT 22) 16:36 (MT 22)	06:16 18:05	06:24 19:39	18:11 (MT 21) 20:12
15	07:26 16:54	06:58 17:33	16:14 (MT 22) 16:33 (MT 22)	06:14 18:06	06:22 19:41	18:22 (MT 21) 20:13
16	07:26 16:55	06:56 17:34	16:17 (MT 22) 16:31 (MT 22)	06:13 18:07	06:20 19:42	18:22 (MT 21) 20:14
17	07:25 16:56	06:55 17:35	16:23 (MT 22) 16:27 (MT 22)	06:11 18:08	06:19 19:43	18:22 (MT 21) 20:15
18	07:25 16:57	06:54 17:36	06:09 18:10	17:16 (MT 21) 17:32 (MT 21)	06:17 19:44	18:22 (MT 21) 20:16
19	07:24 16:58	06:52 17:38	06:07 18:11	17:12 (MT 21) 17:35 (MT 21)	06:16 19:45	18:22 (MT 21) 20:17
20	07:24 17:00	06:51 17:39	06:06 18:12	17:11 (MT 21) 17:38 (MT 21)	06:14 19:46	18:22 (MT 21) 20:18
21	07:23 17:01	16:16 (MT 22) 16:24 (MT 22)	06:49 17:40	06:04 18:13	17:08 (MT 21) 17:39 (MT 21)	18:22 (MT 21) 20:19
22	07:22 17:02	16:14 (MT 22) 16:28 (MT 22)	06:48 17:41	06:02 18:14	17:06 (MT 21) 17:40 (MT 21)	18:22 (MT 21) 20:20
23	07:22 17:03	16:12 (MT 22) 16:30 (MT 22)	06:46 17:43	06:01 18:15	17:04 (MT 21) 17:40 (MT 21)	18:22 (MT 21) 20:21
24	07:21 17:05	16:11 (MT 22) 16:31 (MT 22)	06:45 17:44	05:59 18:16	17:04 (MT 21) 17:42 (MT 21)	18:22 (MT 21) 20:22
25	07:20 17:06	16:10 (MT 22) 16:32 (MT 22)	06:43 17:45	05:57 18:17	17:02 (MT 21) 17:42 (MT 21)	18:22 (MT 21) 20:23
26	07:20 17:07	16:09 (MT 22) 16:34 (MT 22)	06:42 17:46	05:55 18:18	17:01 (MT 21) 17:42 (MT 21)	18:22 (MT 21) 20:23
27	07:19 17:08	16:08 (MT 22) 16:35 (MT 22)	06:40 17:47	05:54 18:20	17:00 (MT 21) 17:42 (MT 21)	18:22 (MT 21) 20:24
28	07:18 17:10	16:07 (MT 22) 16:36 (MT 22)	06:39 17:49	05:52 18:21	17:00 (MT 21) 17:43 (MT 21)	18:22 (MT 21) 20:25
29	07:17 17:11	16:08 (MT 22) 16:37 (MT 22)	06:39 17:49	05:50 18:22	17:59 (MT 21) 18:43 (MT 21)	18:22 (MT 21) 20:26
30	07:16 17:12	16:08 (MT 22) 16:38 (MT 22)	06:39 17:49	05:49 18:23	17:59 (MT 21) 18:42 (MT 21)	18:22 (MT 21) 20:27
31	07:15 17:13	16:07 (MT 22) 16:39 (MT 22)	06:39 17:49	05:47 18:24	17:59 (MT 21) 18:43 (MT 21)	18:22 (MT 21) 20:28
Potential sun hours	295	296	369	400	451	455
Total, worst case	254	465	502	464		
Sun reduction	0,44	0,46	0,44	0,48		
Oper. time red.	0,70	0,70	0,70	0,70		
Wind dir. red.	0,56	0,56	0,60	0,60		
Total reduction	0,17	0,18	0,19	0,20		
Total, real	44	83	93	94		

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: R93 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	20:40	05:53	20:20	06:25	18:02 (MT 21)	06:56	18:30 (MT 21)	06:32	15:38 (MT 22)	07:08	16:31
2	05:29	20:39	05:54	20:19	06:26	18:01 (MT 21)	06:57	18:31 (MT 21)	06:33	15:38 (MT 22)	07:09	16:31
3	05:30	20:39	05:55	20:18	06:27	17:59 (MT 21)	06:59	18:32 (MT 21)	06:34	15:37 (MT 22)	07:10	16:30
4	05:30	20:39	05:56	20:16	06:28	17:57 (MT 21)	07:00	18:33 (MT 21)	06:35	15:37 (MT 22)	07:11	16:30
5	05:31	20:39	05:57	20:15	06:29	17:56 (MT 21)	07:01	18:34 (MT 21)	06:37	15:37 (MT 22)	07:12	16:30
6	05:32	20:39	05:58	20:14	06:30	17:55 (MT 21)	07:02	18:34 (MT 21)	06:38	15:36 (MT 22)	07:13	16:30
7	05:32	20:38	05:59	20:13	06:31	17:54 (MT 21)	07:03	18:34 (MT 21)	06:39	15:37 (MT 22)	07:14	16:30
8	05:33	20:38	06:00	20:12	06:32	17:53 (MT 21)	07:04	18:34 (MT 21)	06:40	15:37 (MT 22)	07:15	16:30
9	05:33	20:38	06:01	20:10	06:34	17:52 (MT 21)	07:05	18:34 (MT 21)	06:42	15:37 (MT 22)	07:16	16:30
10	05:34	20:37	06:02	20:09	06:35	17:51 (MT 21)	07:06	18:34 (MT 21)	06:43	15:38 (MT 22)	07:16	16:30
11	05:35	20:37	06:04	20:08	06:36	17:51 (MT 21)	07:07	18:34 (MT 21)	06:44	15:38 (MT 22)	07:17	16:30
12	05:36	20:36	06:05	20:06	06:37	17:50 (MT 21)	07:08	18:34 (MT 21)	06:45	15:39 (MT 22)	07:18	16:30
13	05:36	20:36	06:06	20:05	06:38	17:50 (MT 21)	07:10	18:34 (MT 21)	06:47	15:39 (MT 22)	07:19	16:30
14	05:37	20:35	06:07	20:04	06:39	17:50 (MT 21)	07:11	18:34 (MT 21)	06:48	15:40 (MT 22)	07:20	16:30
15	05:38	20:35	06:08	20:02	06:40	17:49 (MT 21)	07:12	18:34 (MT 21)	06:49	15:41 (MT 22)	07:20	16:30
16	05:39	20:34	06:09	20:01	06:41	17:49 (MT 21)	07:13	18:34 (MT 21)	06:50	15:42 (MT 22)	07:21	16:30
17	05:40	20:33	06:10	19:59	06:42	17:49 (MT 21)	07:14	18:34 (MT 21)	06:51	15:44 (MT 22)	07:22	16:30
18	05:40	20:33	06:11	19:58	06:43	17:50 (MT 21)	07:15	18:34 (MT 21)	06:53	15:45 (MT 22)	07:23	16:30
19	05:41	20:32	06:12	19:56	06:44	17:50 (MT 21)	07:16	18:34 (MT 21)	06:54	15:46 (MT 22)	07:23	16:30
20	05:42	20:31	06:13	19:55	06:45	17:50 (MT 21)	07:18	18:34 (MT 21)	06:55	15:49 (MT 22)	07:24	16:30
21	05:43	20:30	06:14	19:53	06:46	17:51 (MT 21)	07:19	18:34 (MT 21)	06:56	15:52 (MT 22)	07:24	16:30
22	05:44	20:30	06:15	19:52	06:47	17:52 (MT 21)	07:20	18:34 (MT 21)	06:57	16:00 (MT 22)	07:25	16:30
23	05:45	20:29	06:16	19:50	06:48	17:53 (MT 21)	07:21	18:34 (MT 21)	06:59	16:03 (MT 22)	07:25	16:30
24	05:46	20:28	06:17	19:49	06:49	17:55 (MT 21)	07:22	18:34 (MT 21)	07:00	16:07 (MT 22)	07:26	16:30
25	05:47	20:27	06:18	19:47	06:50	17:58 (MT 21)	06:23	18:34 (MT 21)	07:01	16:10 (MT 22)	07:26	16:30
26	05:48	20:26	06:19	19:45	06:51	18:02 (MT 21)	06:25	18:34 (MT 21)	07:02	16:14 (MT 22)	07:27	16:30
27	05:48	20:25	06:20	19:44	06:52	18:11 (MT 21)	07:04	18:34 (MT 21)	07:03	16:18 (MT 22)	07:27	16:30
28	05:49	20:24	06:21	19:42	06:53		06:26	18:34 (MT 21)	07:04	16:22 (MT 22)	07:27	16:30
29	05:50	20:23	06:22	19:41	06:54	18:12 (MT 21)	06:28	18:34 (MT 21)	07:05	16:26 (MT 22)	07:28	16:30
30	05:51	20:22	06:23	19:39	06:55	18:23 (MT 21)	06:29	18:34 (MT 21)	07:07	16:30 (MT 22)	07:28	16:30
31	05:52	20:21	06:24	19:37	06:56	18:26 (MT 21)	06:31	18:34 (MT 21)	07:09	16:34 (MT 22)	07:28	16:30
Potential sun hours	462	429			375			344		296		285
Total, worst case			52		931			149		580		
Sun reduction			0,67		0,58			0,44		0,41		
Oper. time red.			0,70		0,70			0,70		0,70		
Wind dir. red.			0,60		0,60			0,56		0,56		
Total reduction			0,28		0,24			0,17		0,16		
Total, real			15		227			25		92		

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: R94 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 2 rows of data showing sunshine probability values.

Operational time

Table with 13 columns (N, NNE, ENE, E, ESE, SSE, S, SSW, WSW, W, WNW, NNW, Sum) and 2 rows of data.

Main shadow calculation table with columns for months (January to June) and rows for each day of the month, including sun rise/set times and reduction factors.

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

Matrix with 4 columns: Day in month, Sun rise/set times, Minutes with flicker, and First/Last time with flicker (WTG causing flicker).

SHADOW - Calendar

Shadow receptor: R94 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

N NNE ENE E ESE SSE S SSW WSW W WNW NNW Sum
981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	17:31 (MT 20) 06:25	17:19 (MT 20) 06:56	06:32 13:08 (MT 23)	07:08 12:28 (MT 23)
2	05:29 20:40	05:54 20:19	67 17:31 (MT 20) 06:26	71 17:20 (MT 20) 06:57	10 16:56 13:18 (MT 23)	114 16:31 15:13 (MT 21)
3	05:30 20:39	05:55 20:18	69 17:30 (MT 20) 06:27	68 17:20 (MT 20) 06:59	26 16:55 12:59 (MT 23)	116 16:31 15:14 (MT 21)
4	05:30 20:39	05:56 20:17	70 17:29 (MT 20) 06:28	65 17:21 (MT 20) 07:00	35 16:54 13:29 (MT 23)	118 16:30 15:15 (MT 21)
5	05:31 20:39	8 18:00 (MT 20) 05:57	72 17:28 (MT 20) 06:29	63 17:22 (MT 20) 07:01	46 16:51 12:48 (MT 23)	120 16:30 15:16 (MT 21)
6	05:32 20:39	13 17:58 (MT 20) 05:58	72 17:28 (MT 20) 06:30	61 17:22 (MT 20) 07:02	51 16:50 13:34 (MT 23)	121 16:30 15:17 (MT 21)
7	05:32 20:39	18 17:55 (MT 20) 05:59	73 17:27 (MT 20) 06:31	58 17:23 (MT 20) 07:03	56 16:49 13:36 (MT 23)	122 16:30 15:18 (MT 21)
8	05:33 20:38	18 18:13 (MT 20) 06:00	73 17:26 (MT 20) 06:32	58 18:21 (MT 20) 07:04	56 16:49 13:39 (MT 23)	122 16:30 15:18 (MT 21)
9	05:33 20:38	21 17:54 (MT 20) 06:01	75 18:41 (MT 20) 06:34	54 17:25 (MT 20) 07:05	59 16:48 12:41 (MT 23)	123 16:30 15:19 (MT 21)
10	05:34 20:37	24 18:08 (MT 20) 06:02	75 17:26 (MT 20) 06:34	51 17:26 (MT 20) 07:05	62 16:47 12:39 (MT 23)	125 16:30 15:20 (MT 21)
11	05:35 20:37	26 18:16 (MT 20) 06:04	76 18:41 (MT 20) 06:35	47 18:17 (MT 20) 07:06	65 16:46 13:41 (MT 23)	124 16:30 15:21 (MT 21)
12	05:36 20:36	29 17:50 (MT 20) 06:05	76 17:25 (MT 20) 06:36	42 18:12 (MT 20) 07:07	68 16:45 12:36 (MT 23)	125 16:30 15:22 (MT 21)
13	05:36 20:36	31 17:50 (MT 20) 06:06	77 17:24 (MT 20) 06:37	37 17:32 (MT 20) 07:08	69 16:44 12:35 (MT 23)	125 16:30 15:23 (MT 21)
14	05:37 20:35	33 17:48 (MT 20) 06:07	78 17:23 (MT 20) 06:38	30 17:35 (MT 20) 07:10	72 16:43 13:44 (MT 23)	126 16:30 15:24 (MT 21)
15	05:38 20:35	36 18:21 (MT 20) 06:08	78 18:41 (MT 20) 06:39	20 18:05 (MT 20) 07:11	74 16:42 12:33 (MT 23)	127 16:30 15:25 (MT 21)
16	05:39 20:34	38 17:46 (MT 20) 06:09	79 17:22 (MT 20) 06:40	18 18:00 (MT 20) 07:12	75 16:41 13:47 (MT 23)	126 16:30 15:26 (MT 21)
17	05:40 20:33	40 18:25 (MT 20) 06:10	79 18:41 (MT 20) 06:41	18 18:19 (MT 20) 07:13	77 16:40 12:31 (MT 23)	128 16:30 15:27 (MT 21)
18	05:40 20:33	42 17:44 (MT 20) 06:11	80 17:21 (MT 20) 06:42	18 18:18 (MT 20) 07:14	78 16:39 13:49 (MT 23)	127 16:30 15:28 (MT 21)
19	05:41 20:32	44 18:27 (MT 20) 06:12	80 17:21 (MT 20) 06:43	18 18:16 (MT 20) 07:15	80 16:38 12:30 (MT 23)	127 16:30 15:29 (MT 21)
20	05:42 20:31	46 17:42 (MT 20) 06:13	79 17:21 (MT 20) 06:44	18 18:15 (MT 20) 07:16	81 16:37 12:29 (MT 23)	127 16:30 15:30 (MT 21)
21	05:43 20:30	48 18:28 (MT 20) 06:14	79 18:40 (MT 20) 06:45	18 18:14 (MT 20) 07:17	83 16:36 13:50 (MT 23)	127 16:30 15:31 (MT 21)
22	05:44 20:30	48 17:41 (MT 20) 06:15	80 18:39 (MT 20) 06:46	18 18:13 (MT 20) 07:18	83 16:35 12:29 (MT 23)	127 16:30 15:32 (MT 21)
23	05:45 20:29	51 17:40 (MT 20) 06:16	79 17:19 (MT 20) 06:47	18 18:12 (MT 20) 07:19	85 16:34 13:52 (MT 23)	127 16:30 15:33 (MT 21)
24	05:46 20:28	53 18:31 (MT 20) 06:17	79 18:38 (MT 20) 06:48	18 18:11 (MT 20) 07:20	85 16:33 12:28 (MT 23)	127 16:30 15:34 (MT 21)
25	05:47 20:27	55 17:39 (MT 20) 06:18	79 17:18 (MT 20) 06:49	18 18:10 (MT 20) 07:21	86 16:32 13:53 (MT 23)	127 16:30 15:35 (MT 21)
26	05:48 20:26	58 18:32 (MT 20) 06:19	78 18:37 (MT 20) 06:50	18 18:09 (MT 20) 07:22	87 16:31 12:28 (MT 23)	127 16:30 15:36 (MT 21)
27	05:48 20:25	58 17:36 (MT 20) 06:20	78 17:18 (MT 20) 06:51	18 18:08 (MT 20) 07:23	95 16:30 13:55 (MT 23)	127 16:30 15:37 (MT 21)
28	05:49 20:24	60 18:34 (MT 20) 06:21	77 18:36 (MT 20) 06:52	18 18:07 (MT 20) 07:24	102 16:29 12:27 (MT 23)	128 16:30 15:38 (MT 21)
29	05:50 20:23	61 17:34 (MT 20) 06:22	76 17:18 (MT 20) 06:53	18 18:06 (MT 20) 07:25	107 16:28 15:06 (MT 21)	126 16:30 15:39 (MT 21)
30	05:51 20:22	62 17:34 (MT 20) 06:23	75 18:34 (MT 20) 06:54	18 18:05 (MT 20) 07:26	109 16:27 12:27 (MT 23)	127 16:30 15:40 (MT 21)
31	05:52 20:21	64 17:33 (MT 20) 06:24	73 17:19 (MT 20) 06:55	18 18:04 (MT 20) 07:27	111 16:26 15:09 (MT 21)	126 16:30 15:41 (MT 21)
Potential sun hours	462	429	375	344	296	285
Total, worst case	1131	2348	736		2158	3861
Sun reduction	0,61	0,67	0,58		0,41	0,36
Oper. time red.	0,70	0,70	0,70		0,70	0,70
Wind dir. red.	0,62	0,62	0,62		0,63	0,61
Total reduction	0,26	0,29	0,25		0,18	0,16
Total, real	295	674	183		388	603

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: R95 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (54)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

January		February		March		April		May		June	
1	07:28	09:41 (MT 20)	07:14	10:01 (MT 20)	06:37	06:45	05:58	05:29			
	16:40	92 11:13 (MT 20)	17:15	69 11:10 (MT 20)	17:50	19:25	19:58	20:29			
2	07:28	09:42 (MT 20)	07:13	10:02 (MT 20)	06:36	06:44	05:57	05:28			
	16:41	91 11:13 (MT 20)	17:16	66 11:08 (MT 20)	17:51	19:26	19:59	20:29			
3	07:29	09:42 (MT 20)	07:12	10:03 (MT 20)	06:34	06:42	05:56	05:28			
	16:41	92 11:14 (MT 20)	17:17	63 11:06 (MT 20)	17:52	19:27	20:00	20:30			
4	07:29	09:43 (MT 20)	07:11	10:04 (MT 20)	06:32	06:40	05:54	05:27			
	16:42	91 11:14 (MT 20)	17:19	60 11:04 (MT 20)	17:53	19:28	20:01	20:31			
5	07:29	09:43 (MT 20)	07:10	10:06 (MT 20)	06:31	06:38	05:53	05:27			
	16:43	92 11:15 (MT 20)	17:20	57 11:03 (MT 20)	17:55	19:30	20:02	20:32			
6	07:29	09:44 (MT 20)	07:09	10:08 (MT 20)	06:29	06:37	05:52	05:26			
	16:44	91 11:15 (MT 20)	17:21	53 11:01 (MT 20)	17:56	19:31	20:04	20:32			
7	07:28	09:44 (MT 20)	07:08	10:10 (MT 20)	06:28	06:35	05:51	05:26			
	16:45	91 11:15 (MT 20)	17:22	48 10:58 (MT 20)	17:57	19:32	20:05	20:33			
8	07:28	09:45 (MT 20)	07:07	10:12 (MT 20)	06:26	06:33	05:49	05:26			
	16:46	91 11:16 (MT 20)	17:24	44 10:56 (MT 20)	17:58	19:33	20:06	20:33			
9	07:28	09:45 (MT 20)	07:05	10:14 (MT 20)	06:24	06:32	05:48	05:26			
	16:47	91 11:16 (MT 20)	17:25	38 10:52 (MT 20)	17:59	19:34	20:07	20:34			
10	07:28	09:46 (MT 20)	07:04	10:18 (MT 20)	06:23	06:30	05:47	05:25			
	16:48	90 11:16 (MT 20)	17:26	30 10:48 (MT 20)	18:00	19:35	20:08	20:35			
11	07:28	09:46 (MT 20)	07:03	10:24 (MT 20)	06:21	06:29	05:46	05:25			
	16:49	91 11:17 (MT 20)	17:28	18 10:42 (MT 20)	18:02	19:36	20:09	20:35			
12	07:27	09:46 (MT 20)	07:02		06:19	06:27	05:45	05:25			
	16:50	90 11:16 (MT 20)	17:29		18:03	19:37	20:10	20:36			
13	07:27	09:47 (MT 20)	07:00		06:18	06:25	05:44	05:25			
	16:52	90 11:17 (MT 20)	17:30		18:04	19:38	20:11	20:36			
14	07:27	09:47 (MT 20)	06:59		06:16	06:24	05:43	05:25			
	16:53	89 11:16 (MT 20)	17:31		18:05	19:39	20:12	20:37			
15	07:26	09:48 (MT 20)	06:58		06:14	06:22	05:42	05:25			
	16:54	89 11:17 (MT 20)	17:33		18:06	19:41	20:13	20:37			
16	07:26	09:48 (MT 20)	06:56		06:13	06:20	05:41	05:25			
	16:55	89 11:17 (MT 20)	17:34		18:07	19:42	20:14	20:38			
17	07:25	09:49 (MT 20)	06:55		06:11	06:19	05:40	05:25			
	16:56	88 11:17 (MT 20)	17:35		18:08	19:43	20:15	20:38			
18	07:25	09:49 (MT 20)	06:54		06:09	06:17	05:39	05:25			
	16:57	88 11:17 (MT 20)	17:36		18:10	19:44	20:16	20:38			
19	07:24	09:51 (MT 20)	06:52		06:07	06:16	05:38	05:25			
	16:58	86 11:17 (MT 20)	17:38		18:11	19:45	20:17	20:39			
20	07:24	09:51 (MT 20)	06:51		06:06	06:14	05:37	05:25			
	17:00	86 11:17 (MT 20)	17:39		18:12	19:46	20:18	20:39			
21	07:23	09:51 (MT 20)	06:49		06:04	06:13	05:36	05:25			
	17:01	85 11:16 (MT 20)	17:40		18:13	19:47	20:19	20:39			
22	07:23	09:53 (MT 20)	06:48		06:02	06:11	05:35	05:26			
	17:02	84 11:17 (MT 20)	17:41		18:14	19:48	20:20	20:39			
23	07:22	09:53 (MT 20)	06:46		06:01	06:10	05:34	05:26			
	17:03	83 11:16 (MT 20)	17:43		18:15	19:49	20:21	20:39			
24	07:21	09:54 (MT 20)	06:45		05:59	06:08	05:34	05:26			
	17:05	82 11:16 (MT 20)	17:44		18:16	19:50	20:22	20:40			
25	07:20	09:54 (MT 20)	06:43		05:57	06:07	05:33	05:26			
	17:06	81 11:15 (MT 20)	17:45		18:17	19:52	20:23	20:40			
26	07:20	09:55 (MT 20)	06:42		05:55	06:05	05:32	05:27			
	17:07	79 11:14 (MT 20)	17:46		18:18	19:53	20:24	20:40			
27	07:19	09:55 (MT 20)	06:40		05:54	06:04	05:31	05:27			
	17:08	79 11:14 (MT 20)	17:47		18:20	19:54	20:24	20:40			
28	07:18	09:57 (MT 20)	06:39		05:52	06:02	05:31	05:27			
	17:10	77 11:14 (MT 20)	17:49		18:21	19:55	20:25	20:40			
29	07:17	09:58 (MT 20)			06:50	06:01	05:30	05:28			
	17:11	75 11:13 (MT 20)			19:22	19:56	20:26	20:40			
30	07:16	09:59 (MT 20)			06:49	06:00	05:30	05:28			
	17:12	73 11:12 (MT 20)			19:23	19:57	20:27	20:40			
31	07:15	10:00 (MT 20)			06:47		05:29				
	17:13	71 11:11 (MT 20)			19:24		20:28				
Potential sun hours	295		296		369	400	451	455			
Total, worst case	2667		546								
Sun reduction	0,44		0,46								
Oper. time red.	0,70		0,70								
Wind dir. red.	0,71		0,71								
Total reduction	0,22		0,23								
Total, real	587		124								

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: R95 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (54)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	09:47 (MT 20) 10:18 (MT 20)
2	05:29 20:40	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	09:44 (MT 20) 10:22 (MT 20)
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	09:41 (MT 20) 10:25 (MT 20)
4	05:30 20:39	05:56 20:17	06:28 19:31	07:00 18:39	06:36 16:52	09:39 (MT 20) 10:29 (MT 20)
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	09:37 (MT 20) 10:31 (MT 20)
6	05:32 20:39	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	09:36 (MT 20) 10:33 (MT 20)
7	05:32 20:38	05:59 20:13	06:31 19:26	07:03 18:34	06:39 16:49	09:35 (MT 20) 10:36 (MT 20)
8	05:33 20:38	06:00 20:12	06:33 19:24	07:04 18:32	06:40 16:48	09:33 (MT 20) 10:37 (MT 20)
9	05:33 20:38	06:01 20:10	06:34 19:22	07:05 18:31	06:42 16:47	09:32 (MT 20) 10:38 (MT 20)
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	09:32 (MT 20) 10:41 (MT 20)
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	09:31 (MT 20) 10:42 (MT 20)
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	09:30 (MT 20) 10:43 (MT 20)
13	05:36 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	09:30 (MT 20) 10:45 (MT 20)
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	09:29 (MT 20) 10:46 (MT 20)
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	09:28 (MT 20) 10:47 (MT 20)
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	09:28 (MT 20) 10:47 (MT 20)
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	09:28 (MT 20) 10:49 (MT 20)
18	05:40 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	09:28 (MT 20) 10:50 (MT 20)
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:37	09:27 (MT 20) 10:50 (MT 20)
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	09:28 (MT 20) 10:52 (MT 20)
21	05:43 20:31	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	09:27 (MT 20) 10:52 (MT 20)
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	09:27 (MT 20) 10:53 (MT 20)
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	09:27 (MT 20) 10:53 (MT 20)
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	09:27 (MT 20) 10:55 (MT 20)
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	09:27 (MT 20) 10:55 (MT 20)
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	09:27 (MT 20) 10:56 (MT 20)
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:32	09:27 (MT 20) 10:56 (MT 20)
28	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	09:27 (MT 20) 10:56 (MT 20)
29	05:50 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:06 16:32	09:27 (MT 20) 10:57 (MT 20)
30	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	09:28 (MT 20) 10:58 (MT 20)
31	05:52 20:21	06:24 19:37	06:56 18:45	06:31 16:57	09:51 (MT 20) 10:12 (MT 20)	07:28 16:39
Potential sun hours	462	429	375	344	21	296
Total, worst case					2198	2842
Sun reduction					0,44	0,36
Oper. time red.					0,70	0,70
Wind dir. red.					0,71	0,71
Total reduction					0,22	0,18
Total, real					5	515

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: R96 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (55)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January		February		March		April		May		June	
1	07:28	09:15 (MT 20)	07:14	09:31 (MT 20)	06:37	06:45	05:58	05:29				
	16:40	87 10:42 (MT 20)	17:15	73 10:44 (MT 20)	17:50	19:25	19:58	20:29				
2	07:28	09:16 (MT 20)	07:13	09:32 (MT 20)	06:36	06:44	05:57	05:28				
	16:41	86 10:42 (MT 20)	17:16	71 10:43 (MT 20)	17:51	19:26	19:59	20:29				
3	07:29	09:16 (MT 20)	07:12	09:32 (MT 20)	06:34	06:42	05:56	05:28				
	16:41	87 10:43 (MT 20)	17:17	70 10:42 (MT 20)	17:52	19:27	20:00	20:30				
4	07:29	09:17 (MT 20)	07:11	09:33 (MT 20)	06:32	06:40	05:54	05:27				
	16:42	86 10:43 (MT 20)	17:19	68 10:41 (MT 20)	17:53	19:28	20:01	20:31				
5	07:29	09:17 (MT 20)	07:10	09:34 (MT 20)	06:31	06:38	05:53	05:27				
	16:43	87 10:44 (MT 20)	17:20	66 10:40 (MT 20)	17:55	19:30	20:02	20:32				
6	07:29	09:18 (MT 20)	07:09	09:35 (MT 20)	06:29	06:37	05:52	05:26				
	16:44	86 10:44 (MT 20)	17:21	63 10:38 (MT 20)	17:56	19:31	20:04	20:32				
7	07:28	09:18 (MT 20)	07:08	09:37 (MT 20)	06:28	06:35	05:51	05:26				
	16:45	87 10:45 (MT 20)	17:22	60 10:37 (MT 20)	17:57	19:32	20:05	20:33				
8	07:28	09:19 (MT 20)	07:07	09:38 (MT 20)	06:26	06:33	05:49	05:26				
	16:46	87 10:46 (MT 20)	17:24	58 10:36 (MT 20)	17:58	19:33	20:06	20:33				
9	07:28	09:18 (MT 20)	07:05	09:39 (MT 20)	06:24	06:32	05:48	05:26				
	16:47	87 10:45 (MT 20)	17:25	54 10:33 (MT 20)	17:59	19:34	20:07	20:34				
10	07:28	09:19 (MT 20)	07:04	09:41 (MT 20)	06:23	06:30	05:47	05:25				
	16:48	87 10:46 (MT 20)	17:26	50 10:31 (MT 20)	18:00	19:35	20:08	20:35				
11	07:28	09:20 (MT 20)	07:03	09:43 (MT 20)	06:21	06:29	05:46	05:25				
	16:49	86 10:46 (MT 20)	17:28	46 10:29 (MT 20)	18:02	19:36	20:09	20:35				
12	07:27	09:20 (MT 20)	07:02	09:45 (MT 20)	06:19	06:27	05:45	05:25				
	16:50	86 10:46 (MT 20)	17:29	40 10:25 (MT 20)	18:03	19:37	20:10	20:36				
13	07:27	09:20 (MT 20)	07:00	09:48 (MT 20)	06:18	06:25	05:44	05:25				
	16:52	87 10:47 (MT 20)	17:30	34 10:22 (MT 20)	18:04	19:38	20:11	20:36				
14	07:27	09:20 (MT 20)	06:59	09:51 (MT 20)	06:16	06:24	05:43	05:25				
	16:53	87 10:47 (MT 20)	17:31	27 10:18 (MT 20)	18:05	19:39	20:12	20:37				
15	07:26	09:21 (MT 20)	06:58	09:56 (MT 20)	06:14	06:22	05:42	05:25				
	16:54	86 10:47 (MT 20)	17:33	16 10:12 (MT 20)	18:06	19:41	20:13	20:37				
16	07:26	09:21 (MT 20)	06:56		06:13	06:20	05:41	05:25				
	16:55	86 10:47 (MT 20)	17:34		18:07	19:42	20:14	20:38				
17	07:25	09:22 (MT 20)	06:55		06:11	06:19	05:40	05:25				
	16:56	86 10:48 (MT 20)	17:35		18:08	19:43	20:15	20:38				
18	07:25	09:22 (MT 20)	06:54		06:09	06:17	05:39	05:25				
	16:57	85 10:47 (MT 20)	17:36		18:10	19:44	20:16	20:38				
19	07:24	09:23 (MT 20)	06:52		06:07	06:16	05:38	05:25				
	16:58	85 10:48 (MT 20)	17:38		18:11	19:45	20:17	20:39				
20	07:24	09:23 (MT 20)	06:51		06:06	06:14	05:37	05:25				
	17:00	85 10:48 (MT 20)	17:39		18:12	19:46	20:18	20:39				
21	07:23	09:23 (MT 20)	06:49		06:04	06:13	05:36	05:25				
	17:01	85 10:48 (MT 20)	17:40		18:13	19:47	20:19	20:39				
22	07:23	09:25 (MT 20)	06:48		06:02	06:11	05:35	05:26				
	17:02	83 10:48 (MT 20)	17:41		18:14	19:48	20:20	20:39				
23	07:22	09:25 (MT 20)	06:46		06:01	06:10	05:34	05:26				
	17:03	83 10:48 (MT 20)	17:43		18:15	19:49	20:21	20:39				
24	07:21	09:25 (MT 20)	06:45		05:59	06:08	05:34	05:26				
	17:05	83 10:48 (MT 20)	17:44		18:16	19:50	20:22	20:40				
25	07:20	09:26 (MT 20)	06:43		05:57	06:07	05:33	05:26				
	17:06	81 10:47 (MT 20)	17:45		18:17	19:52	20:23	20:40				
26	07:20	09:26 (MT 20)	06:42		05:55	06:05	05:32	05:27				
	17:07	81 10:47 (MT 20)	17:46		18:18	19:53	20:24	20:40				
27	07:19	09:27 (MT 20)	06:40		05:54	06:04	05:31	05:27				
	17:08	79 10:46 (MT 20)	17:47		18:20	19:54	20:24	20:40				
28	07:18	09:28 (MT 20)	06:39		05:52	06:02	05:31	05:27				
	17:10	79 10:47 (MT 20)	17:49		18:21	19:55	20:25	20:40				
29	07:17	09:29 (MT 20)			06:50	06:01	05:30	05:28				
	17:11	77 10:46 (MT 20)			19:22	19:56	20:26	20:40				
30	07:16	09:29 (MT 20)			06:49	06:00	05:30	05:28				
	17:12	77 10:46 (MT 20)			19:23	19:57	20:27	20:40				
31	07:15	09:30 (MT 20)			06:47		05:29					
	17:13	75 10:45 (MT 20)			19:24		20:28					
Potential sun hours	295		296		369		451		455			
Total, worst case	2609		796									
Sun reduction	0,44		0,46									
Oper. time red.	0,70		0,70									
Wind dir. red.	0,71		0,71									
Total reduction	0,22		0,23									
Total, real	570		180									

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: R96 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (55)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	09:10 (MT 20) 10:01 (MT 20)
2	05:29 20:40	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	09:09 (MT 20) 10:03 (MT 20)
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	09:07 (MT 20) 10:05 (MT 20)
4	05:30 20:39	05:56 20:17	06:28 19:31	07:00 18:39	06:36 16:52	09:06 (MT 20) 10:07 (MT 20)
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	09:05 (MT 20) 10:08 (MT 20)
6	05:32 20:39	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	09:04 (MT 20) 10:10 (MT 20)
7	05:32 20:38	05:59 20:13	06:31 19:26	07:03 18:34	06:39 16:49	09:04 (MT 20) 10:12 (MT 20)
8	05:33 20:38	06:00 20:12	06:33 19:24	07:04 18:32	06:40 16:48	09:03 (MT 20) 10:13 (MT 20)
9	05:33 20:38	06:01 20:10	06:34 19:22	07:05 18:31	06:42 16:47	09:02 (MT 20) 10:13 (MT 20)
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	09:02 (MT 20) 10:15 (MT 20)
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	09:01 (MT 20) 10:16 (MT 20)
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	09:00 (MT 20) 10:17 (MT 20)
13	05:36 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	09:01 (MT 20) 10:18 (MT 20)
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	09:00 (MT 20) 10:19 (MT 20)
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	09:00 (MT 20) 10:19 (MT 20)
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	08:59 (MT 20) 10:20 (MT 20)
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	09:00 (MT 20) 10:21 (MT 20)
18	05:40 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	08:59 (MT 20) 10:22 (MT 20)
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:37	08:59 (MT 20) 10:22 (MT 20)
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	09:00 (MT 20) 10:23 (MT 20)
21	05:43 20:31	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	09:00 (MT 20) 10:24 (MT 20)
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	08:59 (MT 20) 10:24 (MT 20)
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	08:59 (MT 20) 10:24 (MT 20)
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	09:00 (MT 20) 10:25 (MT 20)
25	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	09:00 (MT 20) 10:26 (MT 20)
26	05:48 20:26	06:19 19:46	06:51 18:53	06:25 17:04	07:02 16:33	09:00 (MT 20) 10:26 (MT 20)
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:32	09:00 (MT 20) 10:26 (MT 20)
28	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	09:00 (MT 20) 10:27 (MT 20)
29	05:50 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:06 16:32	09:00 (MT 20) 10:27 (MT 20)
30	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:07 16:31	09:02 (MT 20) 10:28 (MT 20)
31	05:52 20:21	06:24 19:37	06:56 18:44	06:31 16:57	07:08 16:30	09:02 (MT 20) 10:28 (MT 20)
Potential sun hours	462	429	375	344	296	285
Total, worst case				172	2290	2677
Sun reduction				0,44	0,41	0,36
Oper. time red.				0,70	0,70	0,70
Wind dir. red.				0,71	0,71	0,71
Total reduction				0,22	0,20	0,18
Total, real				37	458	481

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: R99 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (56)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40 84	10:05 (MT 20) 07:14 11:29 (MT 20) 17:15	10:46 (MT 20) 06:37 11:02 (MT 20) 17:50	06:45 19:25	05:58 19:58	05:28 20:29
2	07:28 16:41 83	10:06 (MT 20) 07:13 11:29 (MT 20) 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29
3	07:29 16:41 83	10:07 (MT 20) 07:12 11:30 (MT 20) 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30
4	07:29 16:42 83	10:07 (MT 20) 07:11 11:30 (MT 20) 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31
5	07:29 16:43 82	10:08 (MT 20) 07:10 11:30 (MT 20) 17:20	06:31 17:55	06:38 19:30	05:53 20:02	05:27 20:32
6	07:29 16:44 81	10:09 (MT 20) 07:09 11:30 (MT 20) 17:21	06:29 17:56	06:37 19:31	05:52 20:04	05:26 20:32
7	07:28 16:45 82	10:09 (MT 20) 07:08 11:31 (MT 20) 17:22	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33
8	07:28 16:46 81	10:10 (MT 20) 07:07 11:31 (MT 20) 17:24	06:26 17:58	06:33 19:33	05:49 20:06	05:26 20:33
9	07:28 16:47 80	10:10 (MT 20) 07:05 11:30 (MT 20) 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34
10	07:28 16:48 80	10:11 (MT 20) 07:04 11:31 (MT 20) 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:25 20:35
11	07:28 16:49 79	10:12 (MT 20) 07:03 11:31 (MT 20) 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35
12	07:27 16:50 78	10:12 (MT 20) 07:02 11:30 (MT 20) 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36
13	07:27 16:52 76	10:14 (MT 20) 07:00 11:30 (MT 20) 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36
14	07:27 16:53 76	10:14 (MT 20) 06:59 11:30 (MT 20) 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37
15	07:26 16:54 75	10:15 (MT 20) 06:58 11:30 (MT 20) 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37
16	07:26 16:55 74	10:15 (MT 20) 06:56 11:29 (MT 20) 17:34	06:13 18:07	06:20 19:42	05:41 20:14	05:25 20:38
17	07:25 16:56 72	10:17 (MT 20) 06:55 11:29 (MT 20) 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38
18	07:25 16:57 71	10:17 (MT 20) 06:54 11:28 (MT 20) 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38
19	07:24 16:58 69	10:19 (MT 20) 06:52 11:28 (MT 20) 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:39
20	07:24 17:00 67	10:20 (MT 20) 06:51 11:27 (MT 20) 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39
21	07:23 17:01 65	10:21 (MT 20) 06:49 11:26 (MT 20) 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39
22	07:23 17:02 64	10:22 (MT 20) 06:48 11:26 (MT 20) 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39
23	07:22 17:03 62	10:23 (MT 20) 06:46 11:25 (MT 20) 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39
24	07:21 17:05 59	10:25 (MT 20) 06:45 11:24 (MT 20) 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:40
25	07:20 17:06 56	10:26 (MT 20) 06:43 11:22 (MT 20) 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:26 20:40
26	07:20 17:07 53	10:27 (MT 20) 06:42 11:20 (MT 20) 17:46	05:55 18:18	06:05 19:53	05:32 20:24	05:27 20:40
27	07:19 17:08 50	10:29 (MT 20) 06:40 11:19 (MT 20) 17:47	05:54 18:20	06:04 19:54	05:31 20:24	05:27 20:40
28	07:18 17:10 45	10:32 (MT 20) 06:39 11:17 (MT 20) 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:27 20:40
29	07:17 17:11 41	10:34 (MT 20) 11:15 (MT 20)	06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 17:12 35	10:37 (MT 20) 11:12 (MT 20)	06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40
31	07:15 17:13 27	10:41 (MT 20) 11:08 (MT 20)	06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	451	455
Total, worst case	2113	16				
Sun reduction	0,44	0,46				
Oper. time red.	0,70	0,70				
Wind dir. red.	0,71	0,71				
Total reduction	0,22	0,23				
Total, real	463	4				

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: R99 - Shadow Receptor: 1,0 x 1,0 Azimuth: 0,0° Slope: 90,0° (56)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

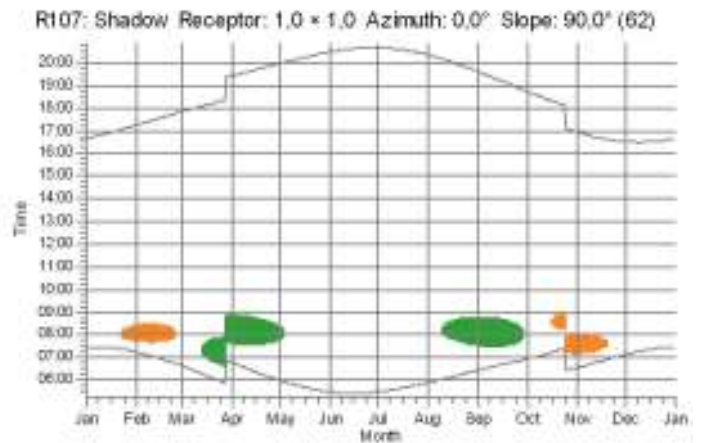
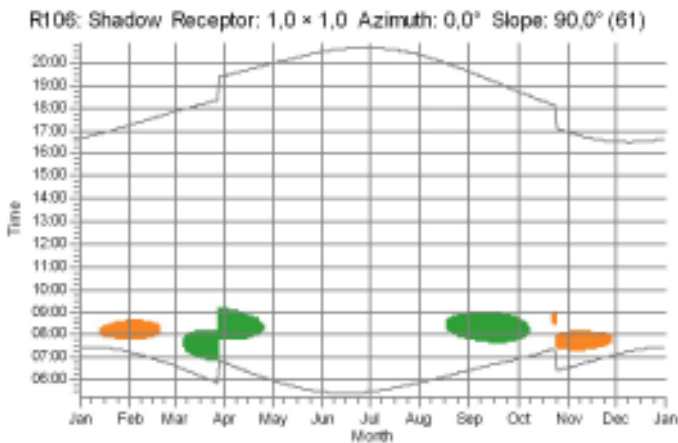
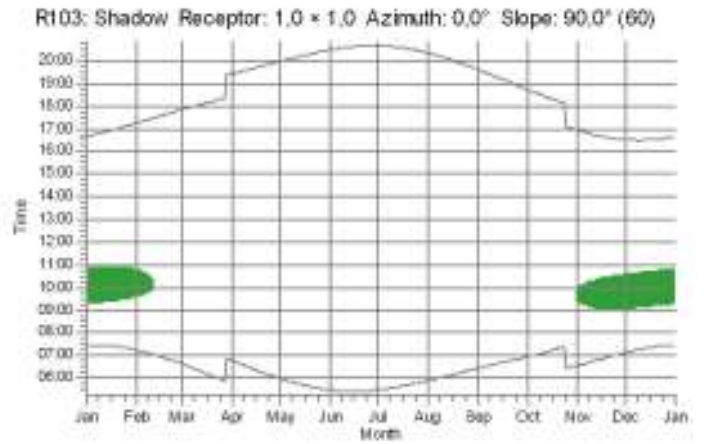
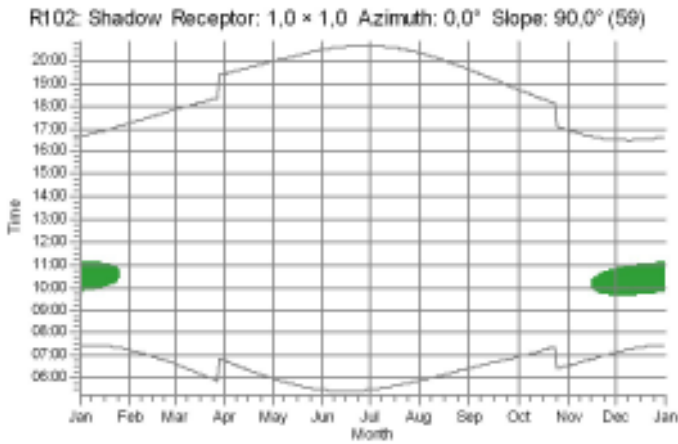
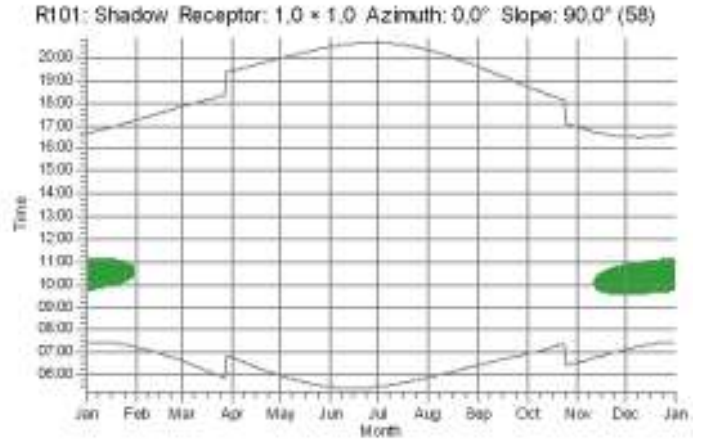
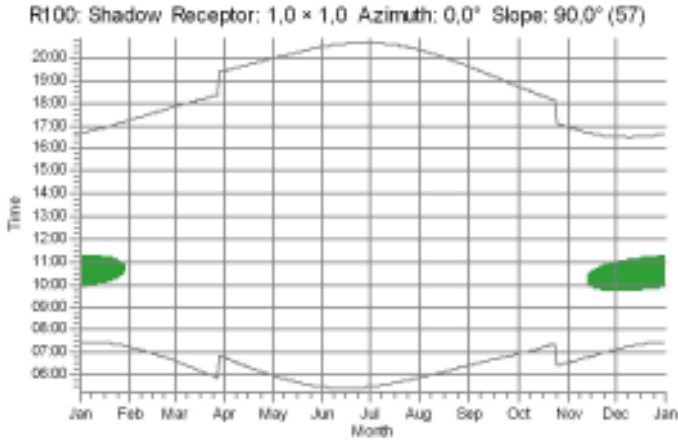
N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:08 16:31
2	05:29 20:40	05:54 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30
4	05:30 20:39	05:56 20:17	06:28 19:31	07:00 18:39	06:36 16:52	07:11 16:30
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30
6	05:32 20:39	05:58 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	05:32 20:38	05:59 20:13	06:31 19:26	07:03 18:34	06:39 16:49	07:14 16:30
8	05:33 20:38	06:00 20:12	06:33 19:24	07:04 18:32	06:40 16:48	07:15 16:30
9	05:33 20:38	06:01 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:16 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	10:16 (MT 20) 07:16
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	10:11 (MT 20) 07:17
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	28 10:39 (MT 20) 07:18
13	05:36 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 16:43	35 10:43 (MT 20) 07:19
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:22	06:48 16:42	41 10:47 (MT 20) 07:20
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	45 10:49 (MT 20) 07:21
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	50 10:52 (MT 20) 07:21
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	53 10:53 (MT 20) 07:22
18	05:40 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:38	56 10:56 (MT 20) 07:23
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:37	59 10:58 (MT 20) 07:23
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	62 10:59 (MT 20) 07:24
21	05:43 20:31	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	64 11:01 (MT 20) 07:24
22	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	65 11:02 (MT 20) 07:25
23	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:59 16:35	67 11:03 (MT 20) 07:25
24	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	69 11:04 (MT 20) 07:26
25	05:47 20:27	06:18 19:47	06:50 18:54	07:23 17:06	07:01 16:34	71 11:06 (MT 20) 07:26
26	05:48 20:26	06:19 19:46	06:51 18:53	07:25 17:04	07:02 16:33	72 11:07 (MT 20) 07:27
27	05:49 20:25	06:20 19:44	06:52 18:51	07:26 17:03	07:03 16:32	73 11:08 (MT 20) 07:27
28	05:49 20:24	06:21 19:42	06:53 18:49	07:27 17:01	07:04 16:32	75 11:09 (MT 20) 07:27
29	05:50 20:23	06:22 19:41	06:54 18:47	07:28 17:00	07:06 16:32	76 11:10 (MT 20) 07:28
30	05:51 20:22	06:23 19:39	06:55 18:46	07:29 16:59	07:07 16:31	76 11:10 (MT 20) 07:28
31	05:52 20:21	06:24 19:37	06:56 16:57	07:30 16:57		78 11:12 (MT 20) 07:28
Potential sun hours	462	429	375	344	296	285
Total, worst case					1233	2590
Sun reduction					0,41	0,36
Oper. time red.					0,70	0,70
Wind dir. red.					0,71	0,71
Total reduction					0,20	0,18
Total, real					248	468

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

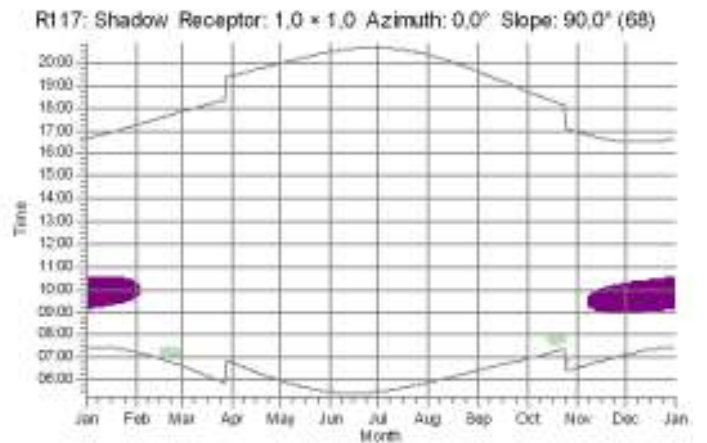
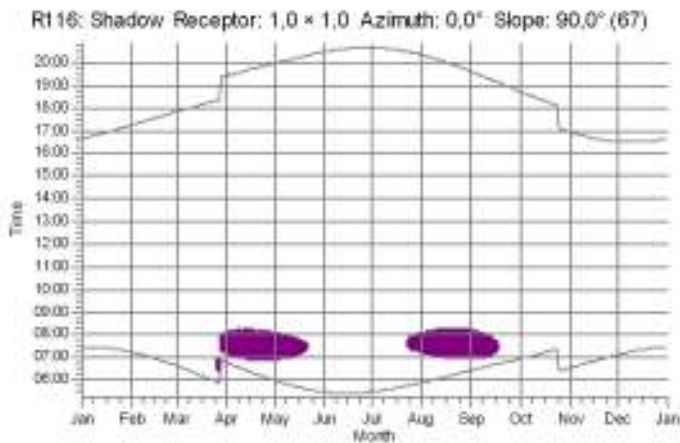
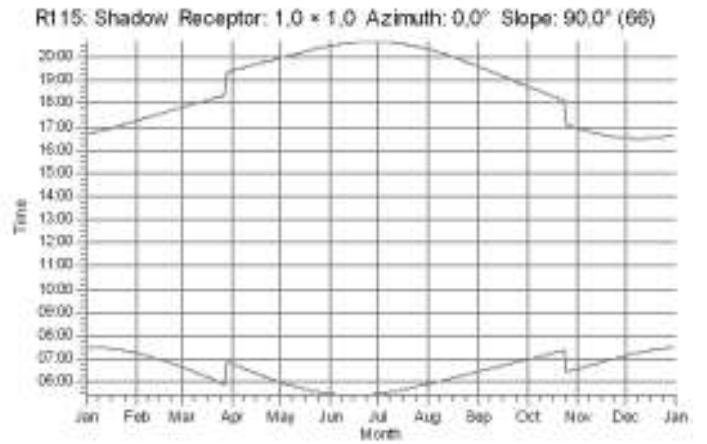
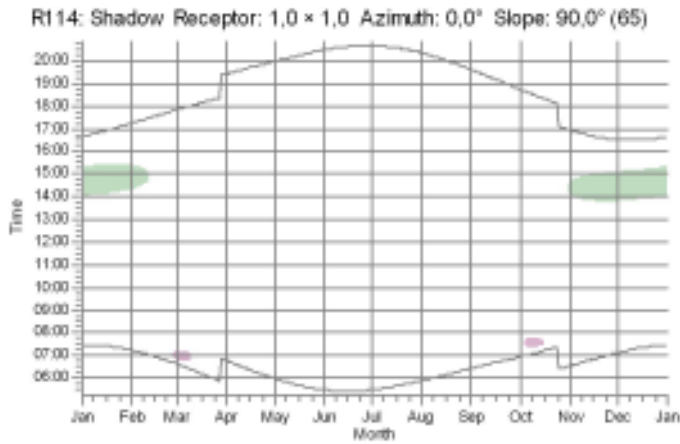
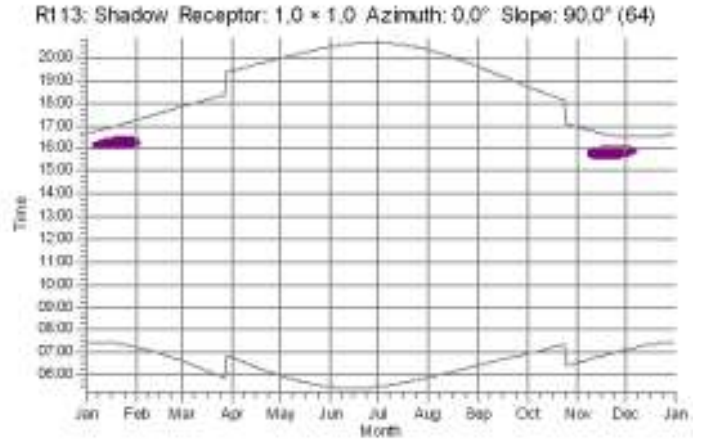
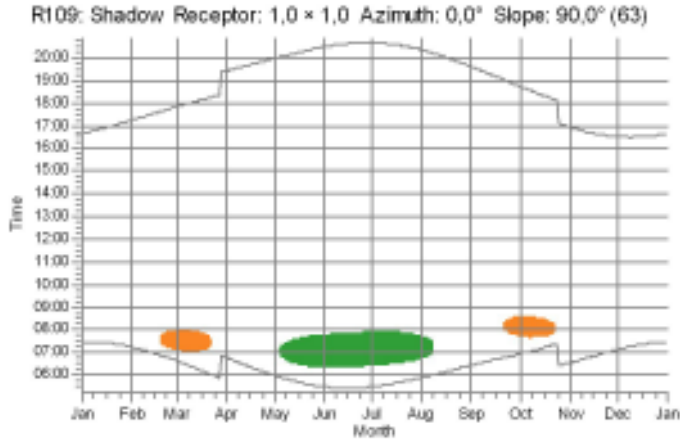
Day in month	Sun rise (hh:mm)	Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	(WTG causing flicker first time)	(WTG causing flicker last time)
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SHADOW - Calendar, graphical



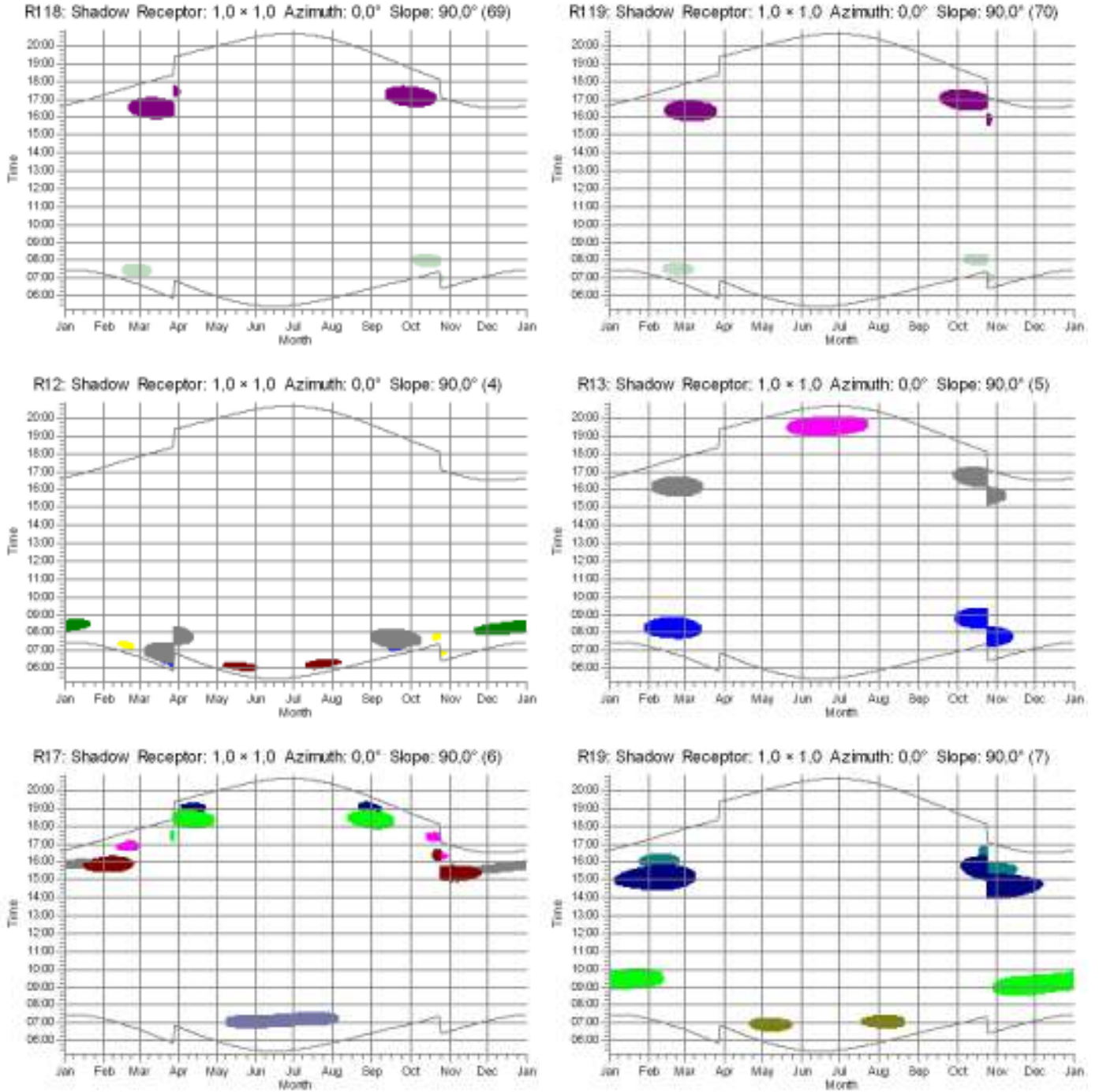
WTC
 MT 20: Semiro Genesi 55.6-110.6200 170.0 10 hub: 165.0 m (TOT: 260.0 m) (20) MT 23: Semiro Genesi 55.6-110.6200 170.0 10 hub: 165.0 m (TOT: 260.0 m) (23)

SHADOW - Calendar, graphical



WTC
 MT 11: Semera Genes S5.6-170-6200-170.0 IQ hub: 165.0 m (TOT: 250.0 m) (11)
 MT 14: Semera Genes S5.6-170-6200-170.0 IQ hub: 165.0 m (TOT: 250.0 m) (14)
 MT 20: Semera Genes S5.6-170-6200-170.0 IQ hub: 165.0 m (TOT: 250.0 m) (20)
 MT 21: Semera Genes S5.6-170-6200-170.0 IQ hub: 165.0 m (TOT: 250.0 m) (21)
 80: VESTAS V90-2.0 Q44Brewer 2000 90.0 IQ hub: 80.0 m (TOT: 125.0 m) (82)

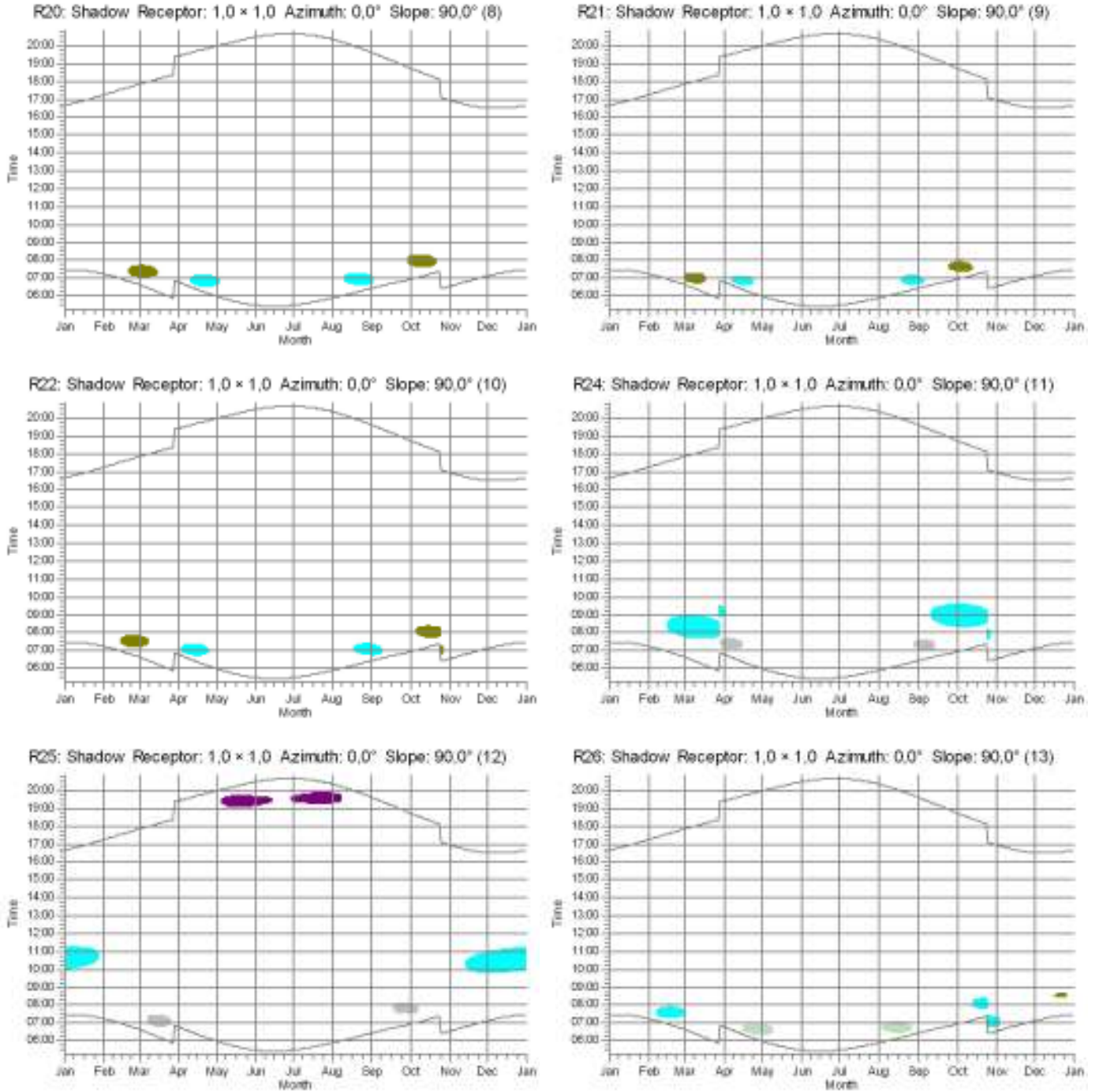
SHADOW - Calendar, graphical



WTG

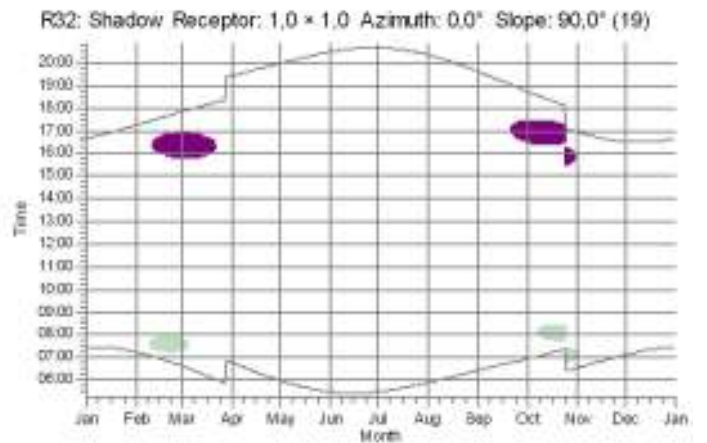
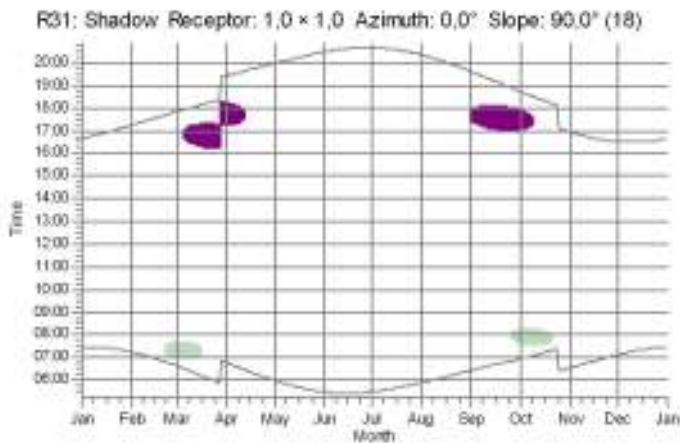
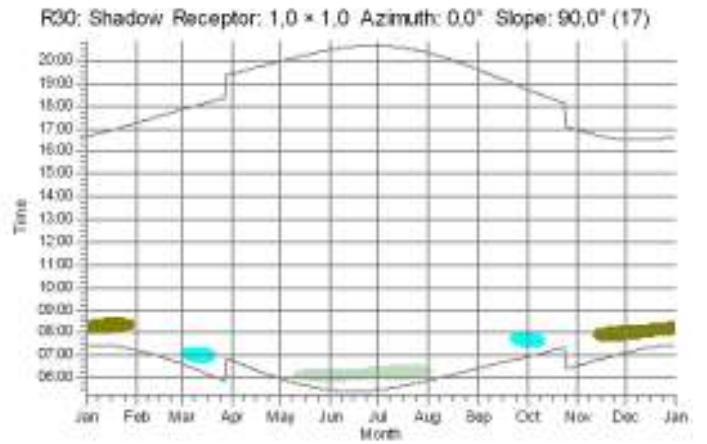
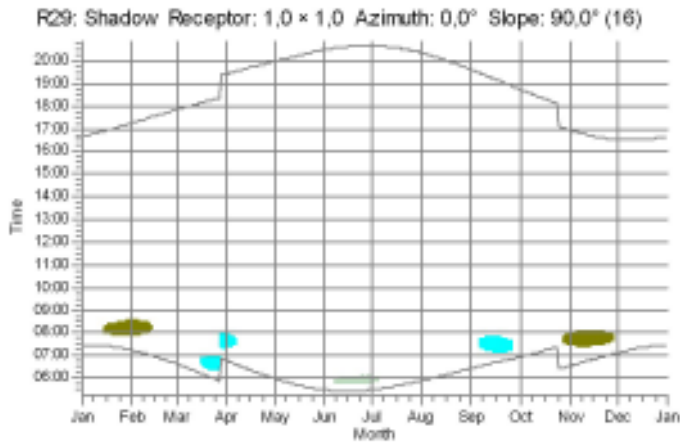
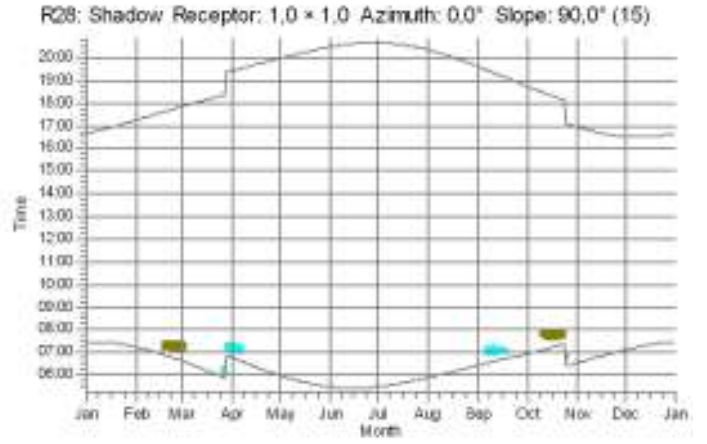
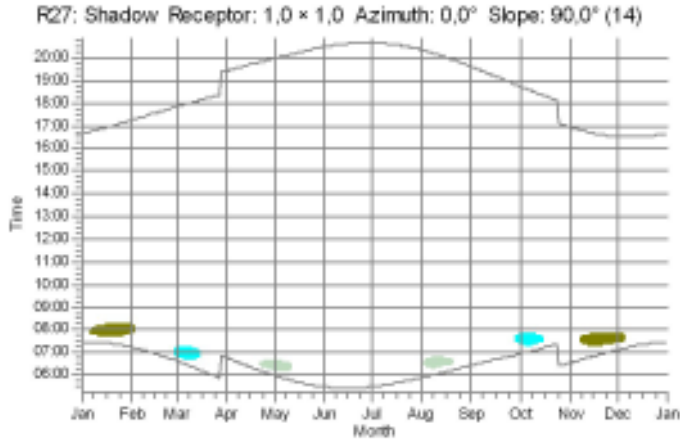
MT 01: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (1)	MT 04: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (4)	MT 07: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (7)	MT 10: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (10)
MT 02: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (2)	MT 05: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (5)	MT 08: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (8)	MT 11: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (11)
MT 03: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (3)	MT 06: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (6)	MT 09: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (9)	MT 14: Siemens Gamesa SG 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 250.0 m) (14)
			60: VESTAS V90-2.0 Q63bruner 2000 90.0 10 hub: 80.0 m (TOT: 125.0 m) (51)

SHADOW - Calendar, graphical



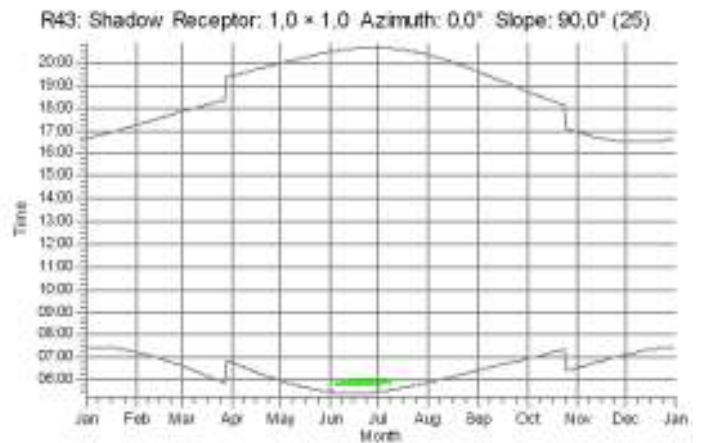
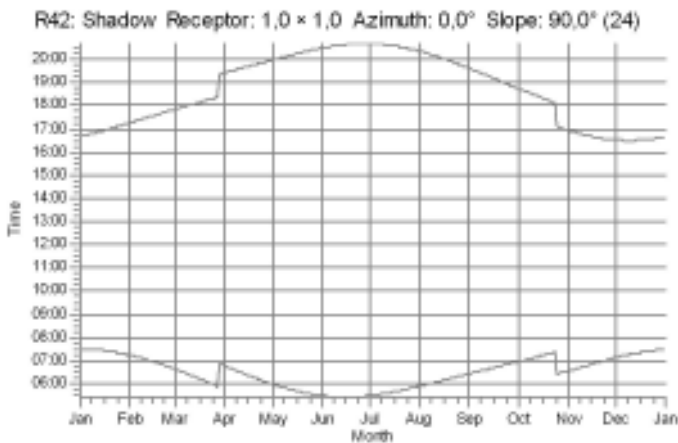
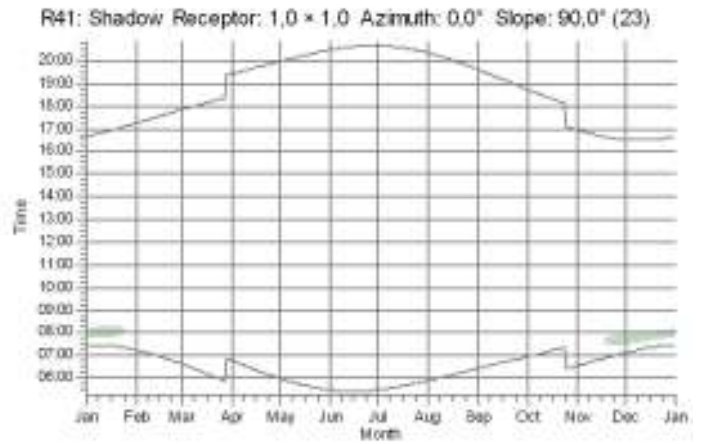
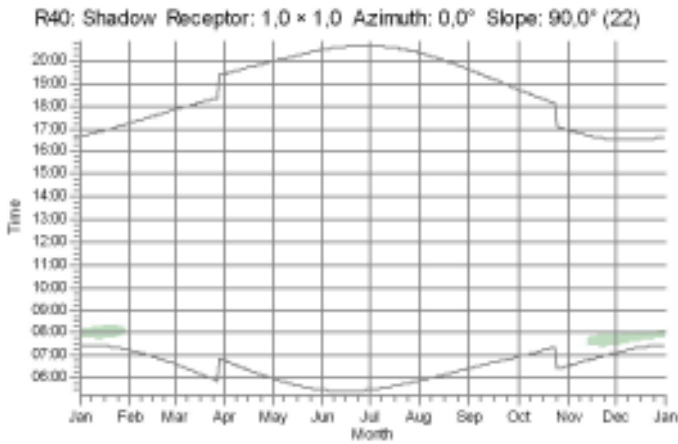
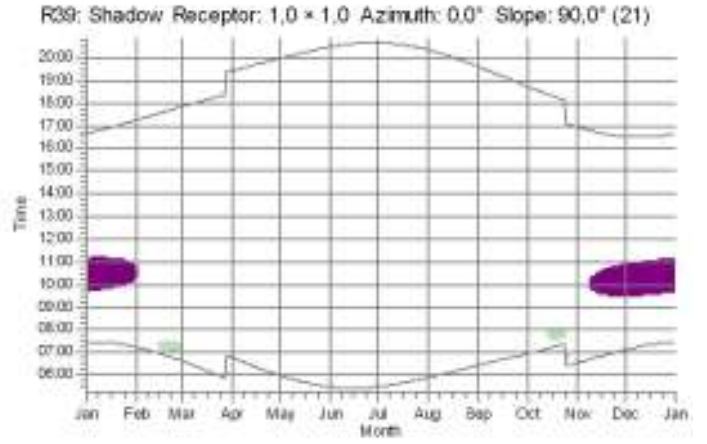
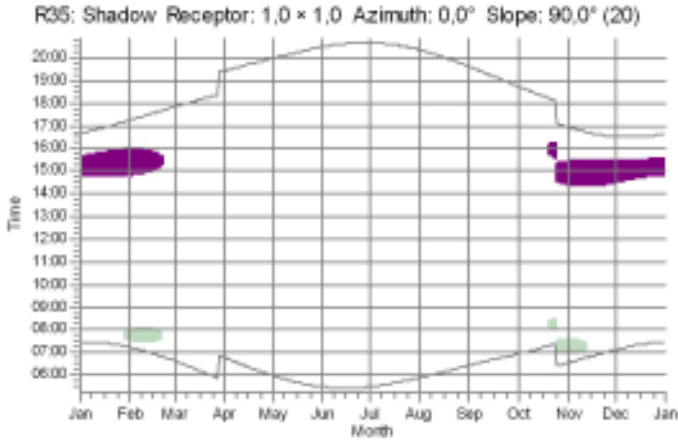
WPA
 MT 10: Semera Genes 55.6-170.6200 170.0 10' hub: 165.0 m (TOT: 260.0 m) (10) MT 11: Semera Genes 55.6-170.6200 170.0 10' hub: 165.0 m (TOT: 260.0 m) (11) MT 12: Semera Genes 55.6-170.6200 170.0 10' hub: 165.0 m (TOT: 260.0 m) (12) MT 13: Semera Genes 55.6-170.6200 170.0 10' hub: 165.0 m (TOT: 260.0 m) (13) MT 14: Semera Genes 55.6-170.6200 170.0 10' hub: 165.0 m (TOT: 260.0 m) (14)

SHADOW - Calendar, graphical



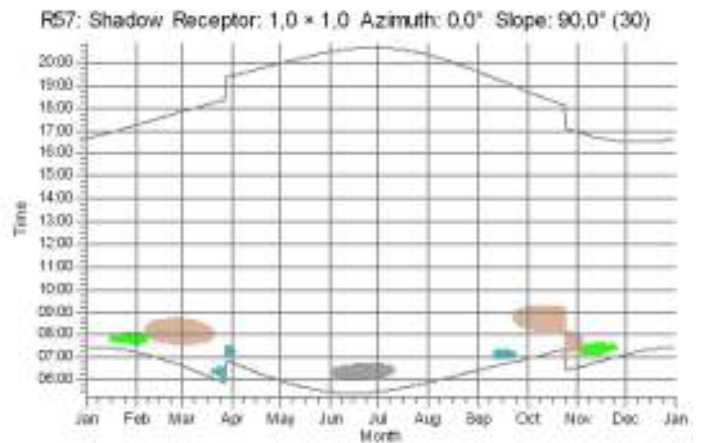
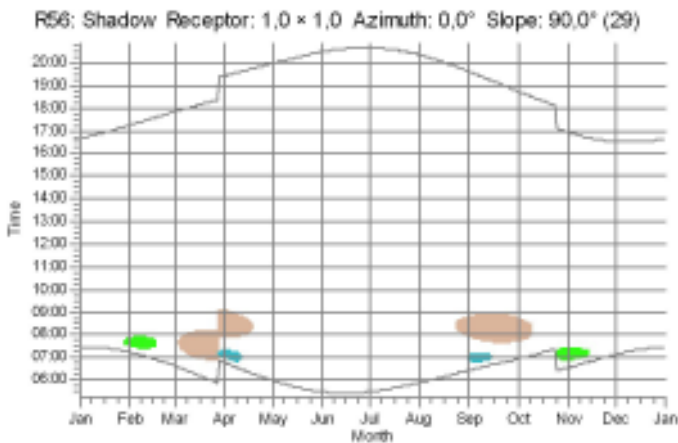
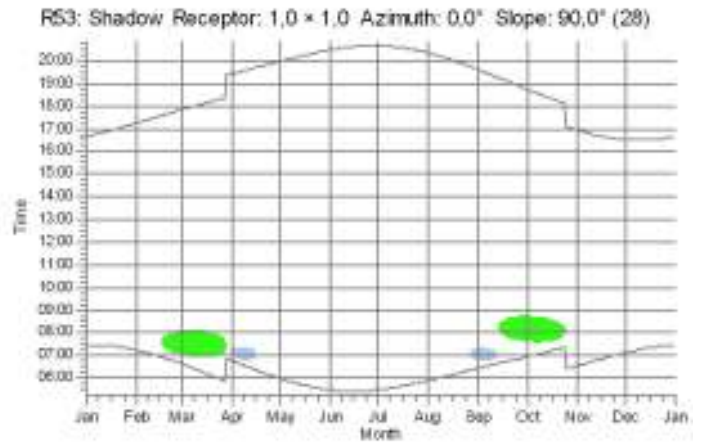
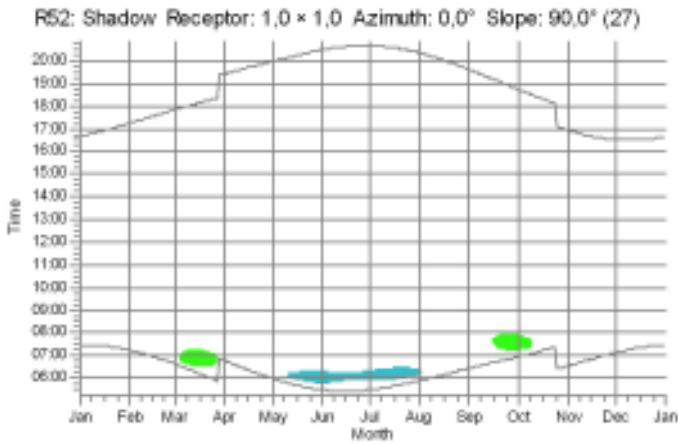
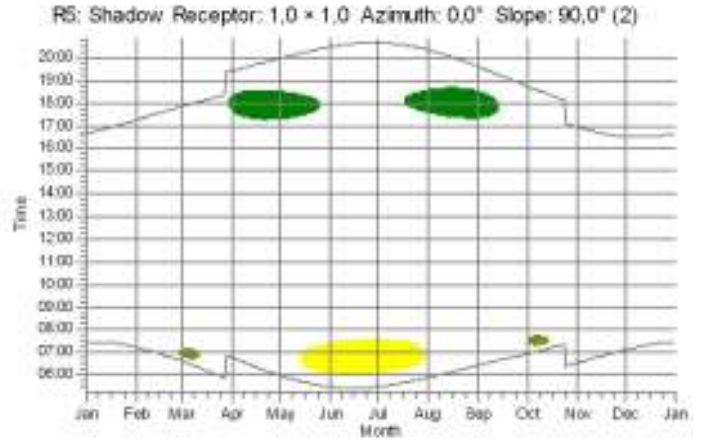
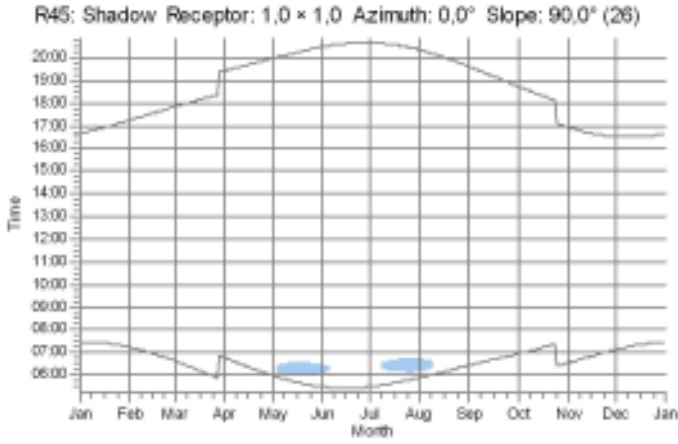
WTC
 MF 10: Semera Genes S5.6-170-6200-170.0-10-Sub: 165.0 m (TOF: 260.0 m) (10)
 MF 11: Semera Genes S5.6-170-6200-170.0-10-Sub: 165.0 m (TOF: 260.0 m) (11)
 MF 13: Semera Genes S5.6-170-6200-170.0-10-Sub: 165.0 m (TOF: 260.0 m) (13)
 MF 14: Semera Genes S5.6-170-6200-170.0-10-Sub: 165.0 m (TOF: 260.0 m) (14)

SHADOW - Calendar, graphical



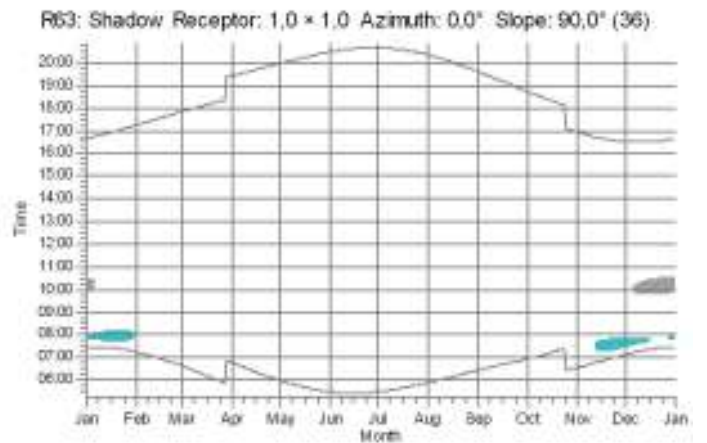
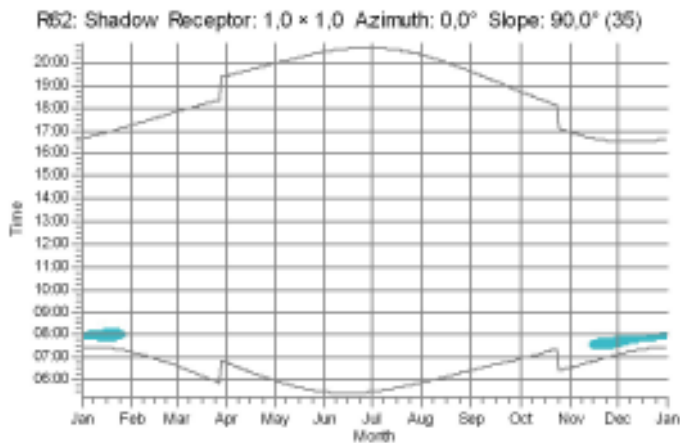
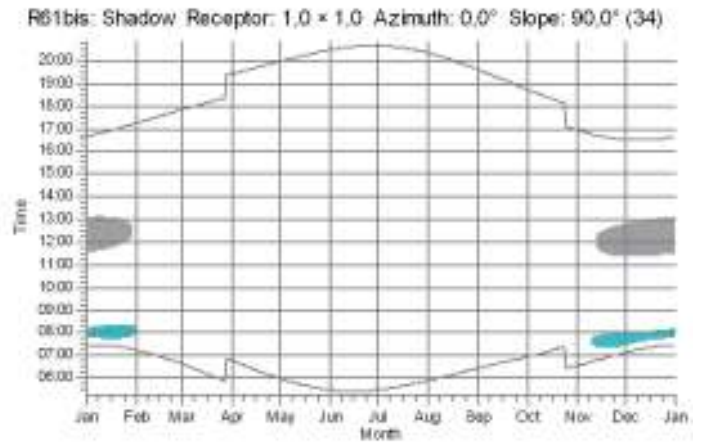
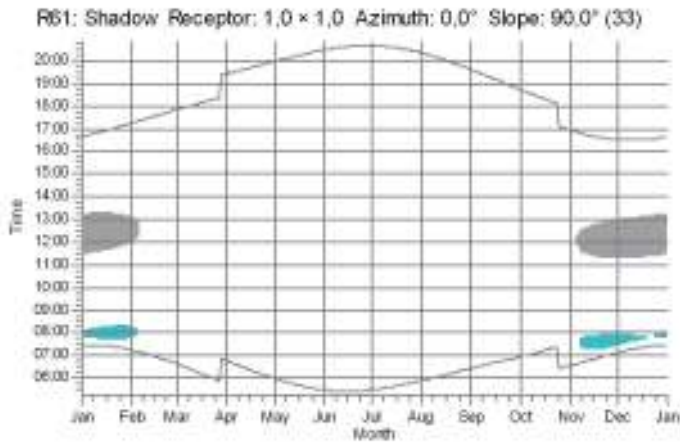
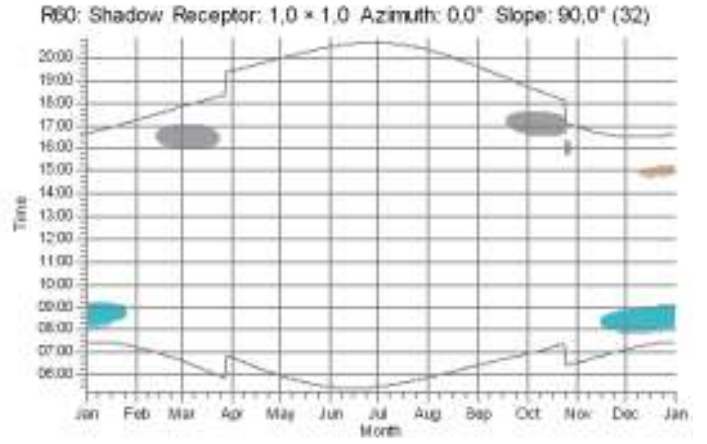
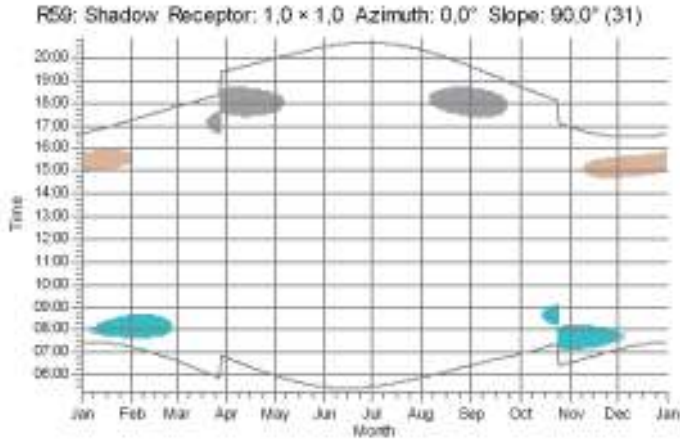
WTS
 MF 11: Semera Gemma S5 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 260.0 m) (11) MF 14: Semera Gemma S5 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 260.0 m) (14) MF 18: Semera Gemma S5 6.0-170 6200 170.0 10 hub: 165.0 m (TOT: 260.0 m) (18)

SHADOW - Calendar, graphical



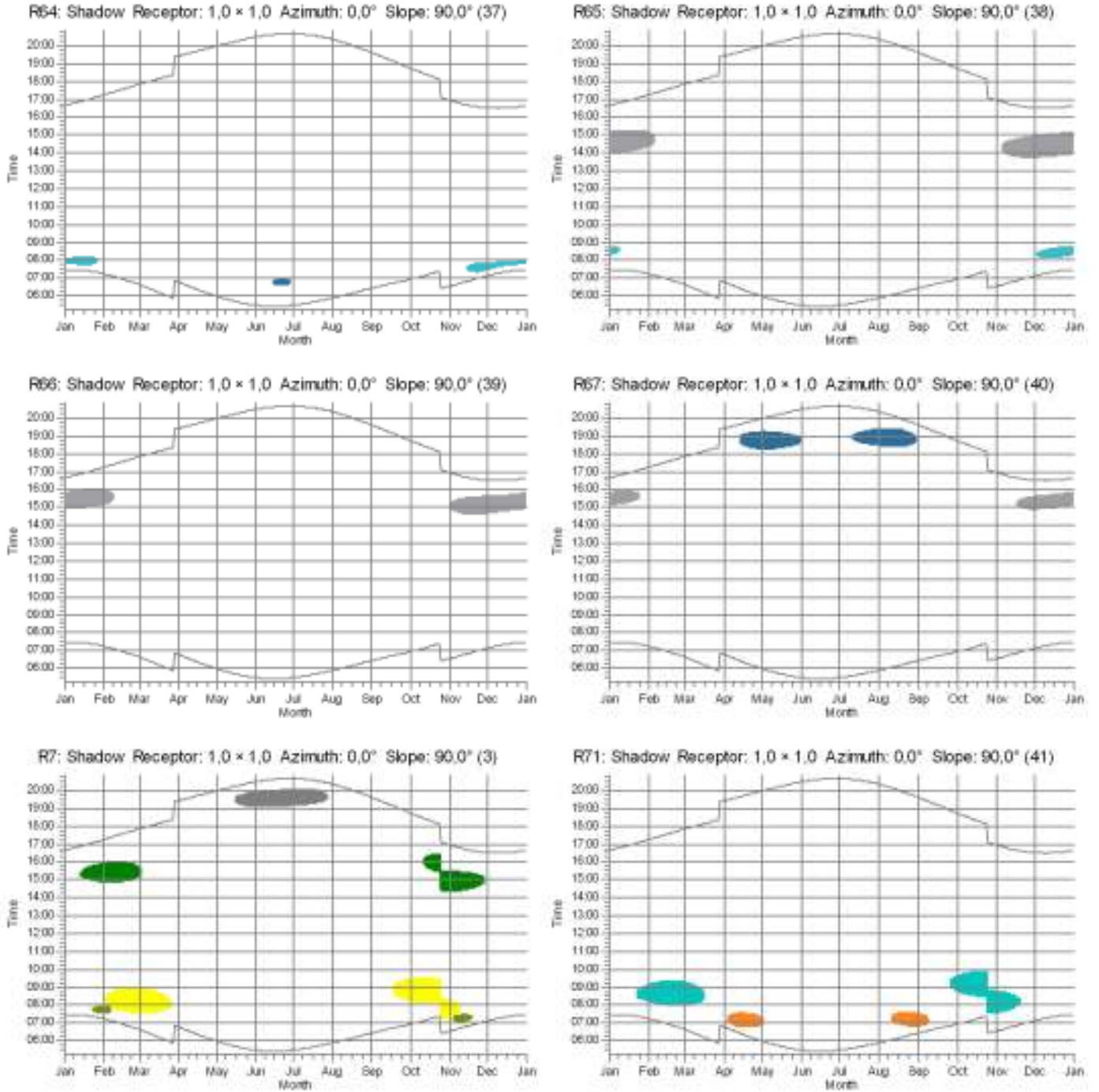
WTC
 MT 01: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (1) MT 15: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (15) MT 17: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (17) MT 19: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (19)
 MT 02: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (2) MT 16: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (16) MT 18: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (18) WT 01: Vestas V60-2.0 GedDrone 2000 80.0 IQ hub: 80.0 m (TOF: 125.0 m) (49)

SHADOW - Calendar, graphical



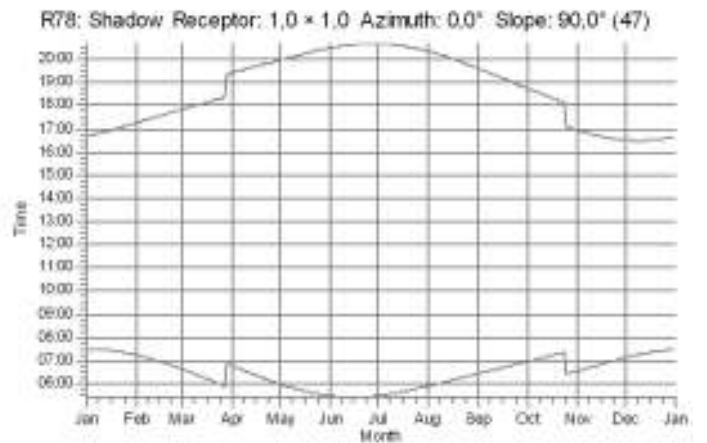
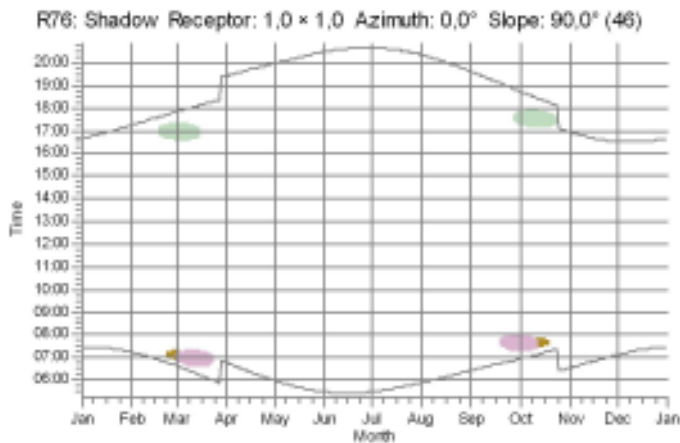
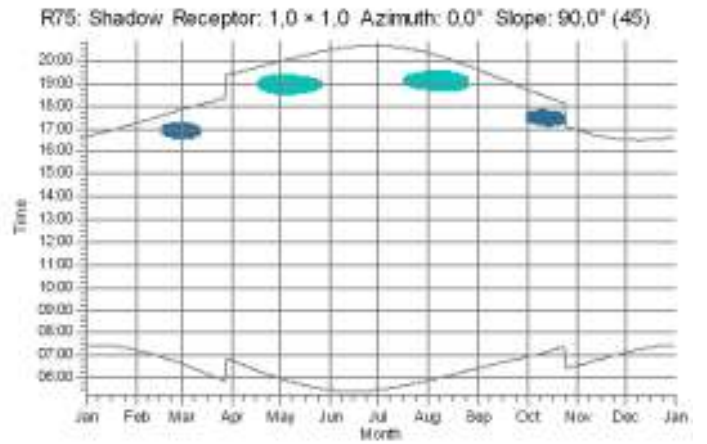
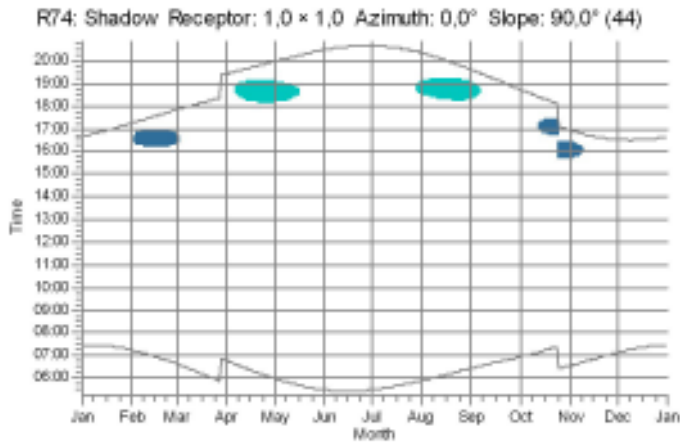
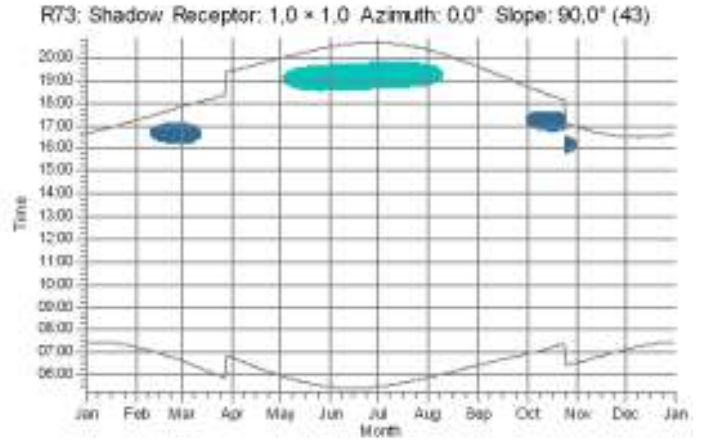
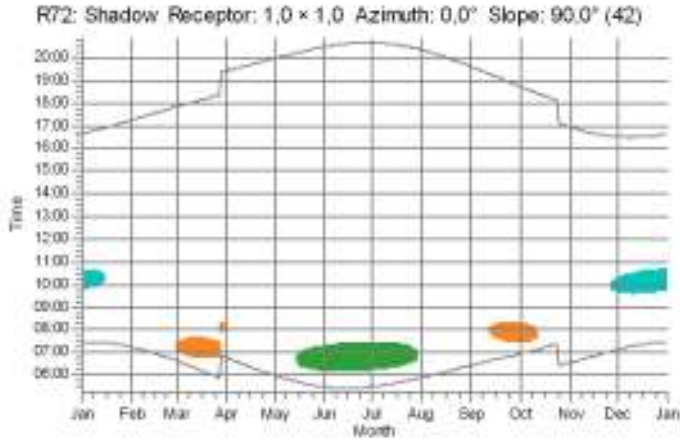
WTC
 MT 16: Semera Genes 55.6-170.6200 170.0 10' h: 165.0 m (TOT: 260.0 m) (16) MT 17: Semera Genes 55.6-170.6200 170.0 10' h: 165.0 m (TOT: 260.0 m) (17) MT 18: Semera Genes 55.6-170.6200 170.0 10' h: 165.0 m (TOT: 260.0 m) (18)

SHADOW - Calendar, graphical



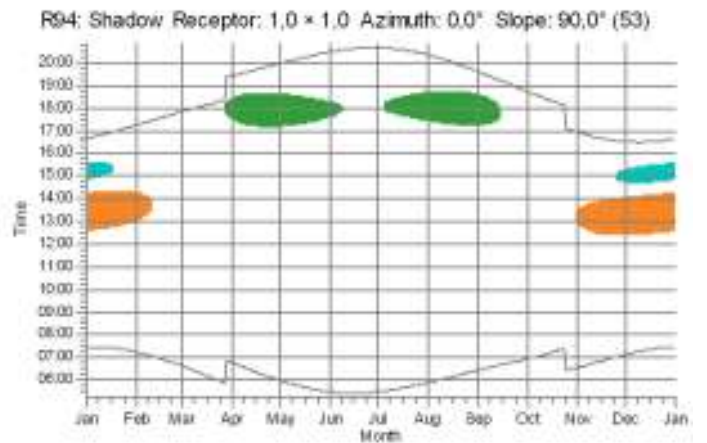
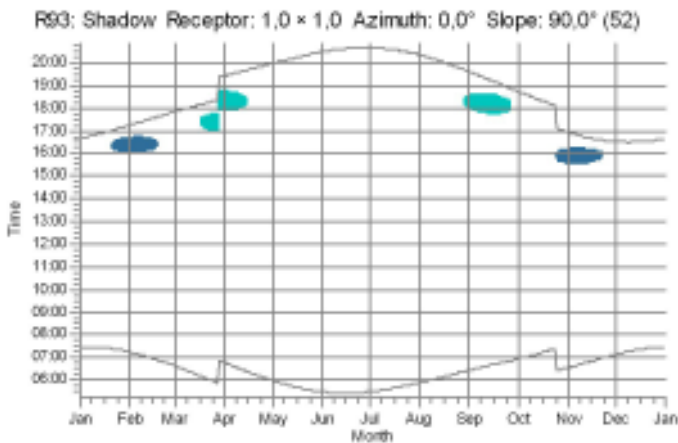
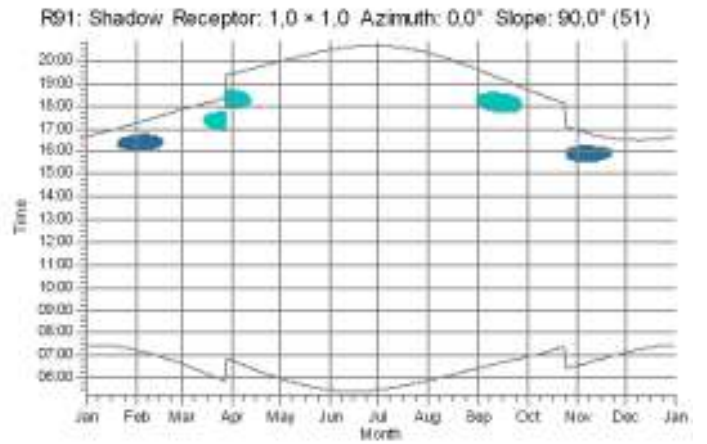
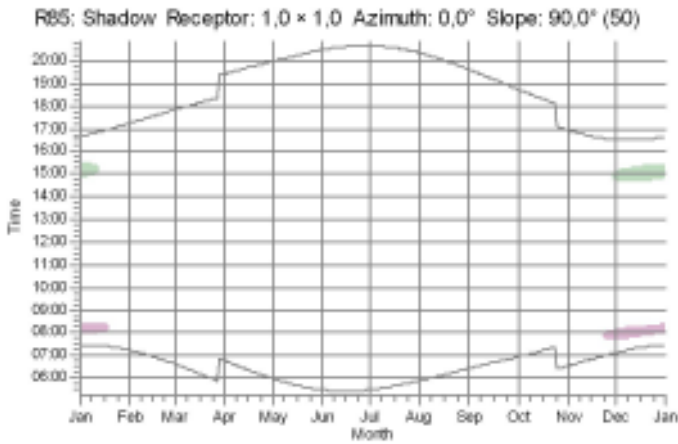
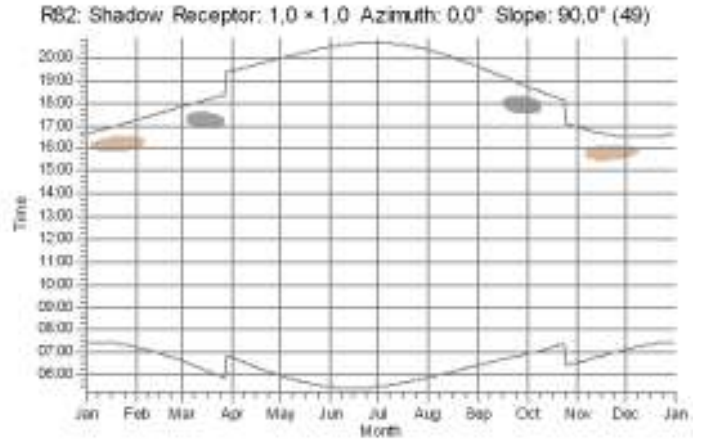
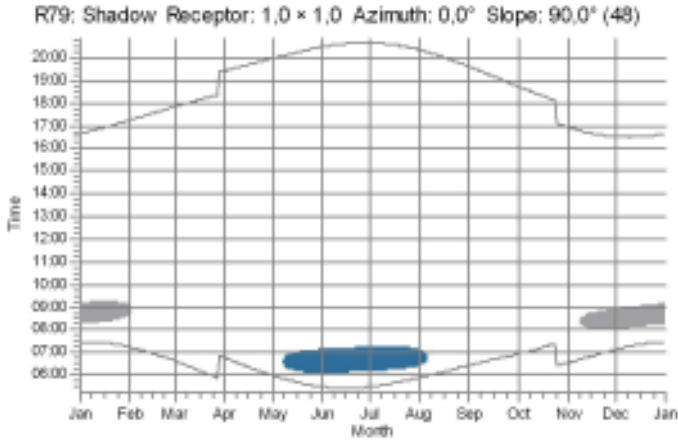
WTC
 MT 01: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (1) MT 04: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (4) MT 19: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (19) MT 22: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (22) MT 23: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (23) MT 02: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (2) MT 16: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (16) MT 21: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (21) MT 25: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (25) MT 26: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (26) MT 27: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (27) MT 28: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (28) MT 29: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (29) MT 30: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (30) MT 31: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (31) MT 32: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (32) MT 33: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (33) MT 34: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (34) MT 35: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (35) MT 36: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (36) MT 37: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (37) MT 38: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (38) MT 39: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (39) MT 40: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (40) MT 41: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (41) MT 42: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (42) MT 43: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (43) MT 44: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (44) MT 45: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (45) MT 46: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (46) MT 47: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (47) MT 48: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (48) MT 49: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (49) MT 50: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (50) MT 51: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (51) MT 52: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (52) MT 53: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (53) MT 54: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (54) MT 55: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (55) MT 56: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (56) MT 57: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (57) MT 58: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (58) MT 59: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (59) MT 60: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (60) MT 61: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (61) MT 62: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (62) MT 63: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (63) MT 64: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (64) MT 65: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (65) MT 66: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (66) MT 67: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (67) MT 68: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (68) MT 69: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (69) MT 70: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (70) MT 71: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (71) MT 72: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (72) MT 73: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (73) MT 74: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (74) MT 75: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (75) MT 76: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (76) MT 77: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (77) MT 78: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (78) MT 79: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (79) MT 80: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (80) MT 81: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (81) MT 82: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (82) MT 83: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (83) MT 84: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (84) MT 85: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (85) MT 86: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (86) MT 87: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (87) MT 88: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (88) MT 89: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (89) MT 90: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (90) MT 91: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (91) MT 92: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (92) MT 93: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (93) MT 94: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (94) MT 95: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (95) MT 96: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (96) MT 97: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (97) MT 98: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (98) MT 99: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (99) MT 100: Siemens Gamesa SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOT: 250.0 m) (100)

SHADOW - Calendar, graphical



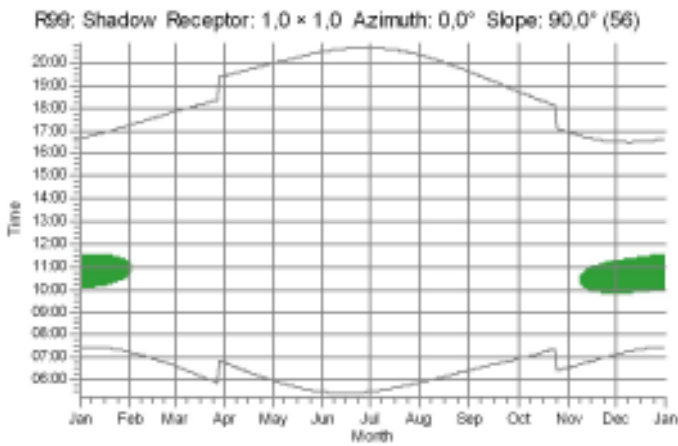
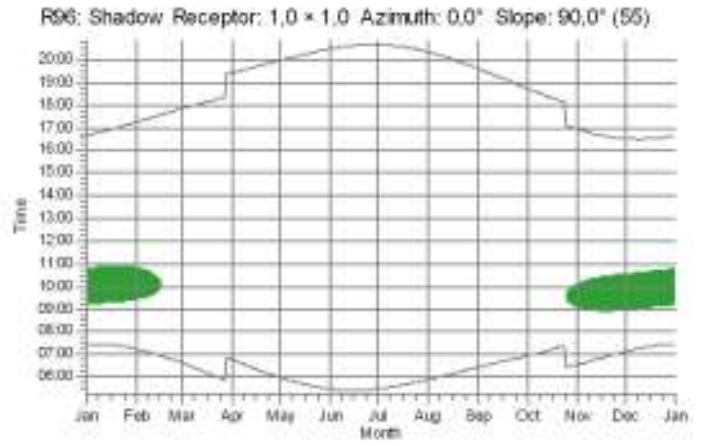
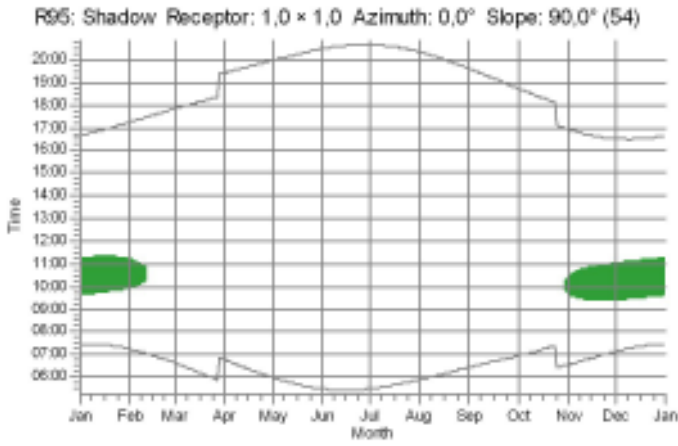
WTC
 MT 14: Siemens Genesys SS 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (14) MT 21: Siemens Genesys SS 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (21) MT 23: Siemens Genesys SS 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (23)
 MT 20: Siemens Genesys SS 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (20) MT 22: Siemens Genesys SS 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (22) 76: VESTAS V60-2.0 Geddrumer 2000 90.0 IQ hub: 80.0 m (TOF: 125.0 m) (62) 80: VESTAS V60-2.0 Geddrumer 2000 90.0 IQ hub: 80.0 m (TOF: 125.0 m) (60)

SHADOW - Calendar, graphical



WTC
 MT 14: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (14) MT 17: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (17) MT 21: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (21) MT 23: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (23)
 MT 16: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (16) MT 20: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (20) MT 22: Semera Genesis SG 6.0-170 6200 170.0 IQ hub: 165.0 m (TOF: 250.0 m) (22) 80: VESTAS V60-2.0 GedDrone 2000 80.0 IQ hub: 80.0 m (TOF: 125.0 m) (80)

SHADOW - Calendar, graphical



SHADOW - Calendar per WTG

WTG: MT 01 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 08:06-08:39/33 16:40	07:14 14:57-15:52/55 17:15	06:37 15:18-15:37/19 17:50	06:45 17:47-18:12/25 19:25	05:59 17:22-18:27/65 19:58	05:29 20:28
2	07:28 08:07-08:39/32 16:41	07:13 14:57-15:53/56 17:16	06:36 15:26-15:30/4 17:51	06:44 17:43-18:15/32 19:26	05:57 17:23-18:27/64 19:59	05:28 20:29
3	07:28 08:07-08:39/32 16:42	07:12 14:56-15:53/57 17:18	06:34 17:52	06:42 17:41-18:18/37 19:27	05:56 17:23-18:25/62 20:00	05:28 20:30
4	07:28 08:08-08:40/32 16:43	07:11 14:56-15:54/58 17:19	06:32 17:54	06:40 17:38-18:20/42 19:28	05:55 17:24-18:25/61 20:01	05:28 20:31
5	07:28 08:09-08:40/31 16:44	07:10 14:56-15:55/59 17:20	06:31 17:55	06:39 17:35-18:21/46 19:30	05:53 17:24-18:25/61 20:02	05:27 20:31
6	07:28 08:10-08:40/30 16:45	07:09 14:56-15:55/59 17:21	06:29 17:56	06:37 17:34-18:23/49 19:31	05:52 17:25-18:24/59 20:03	05:27 20:32
7	07:28 08:10-08:41/31 16:46	07:08 14:57-15:56/59 17:23	06:28 17:57	06:35 17:32-18:24/52 19:32	05:51 17:26-18:24/58 20:04	05:27 20:33
8	07:28 08:10-08:40/30 16:47	07:06 14:56-15:55/59 17:24	06:26 17:58	06:34 17:30-18:25/55 19:33	05:50 17:27-18:23/56 20:06	05:26 20:33
9	07:28 08:11-08:41/30 16:48	07:05 14:56-15:56/60 17:25	06:24 17:59	06:32 17:29-18:26/57 19:34	05:48 17:27-18:22/55 20:07	05:26 20:34
10	07:28 08:12-08:41/29 16:49	07:04 14:56-15:56/60 17:26	06:23 18:01	06:30 17:28-18:27/59 19:35	05:47 17:28-18:21/53 20:08	05:26 20:34
11	07:27 08:13-08:41/28 16:50	07:03 14:57-15:56/59 17:28	06:21 18:02	06:29 17:26-18:27/61 19:36	05:46 17:29-18:20/51 20:09	05:26 20:35
12	07:27 08:13-08:40/27 16:51	07:02 14:56-15:56/60 17:29	06:19 18:03	06:27 17:26-18:28/62 19:37	05:45 17:30-18:19/49 20:10	05:25 20:35
13	07:27 08:15-08:41/26 16:52	07:00 14:57-15:56/59 17:30	06:18 18:04	06:25 17:25-18:28/63 19:38	05:44 17:31-18:18/47 20:11	05:25 20:36
14	07:27 15:16-15:23/7 16:53	06:59 14:58-15:56/58 17:32	06:16 18:05	06:24 17:25-18:29/64 19:39	05:43 17:32-18:17/45 20:12	05:25 20:36
15	07:26 15:13-15:28/15 16:54	06:58 14:58-15:55/57 17:33	06:14 18:06	06:22 17:23-18:29/66 19:40	05:42 17:33-18:16/43 20:13	05:25 20:37
16	07:26 15:10-15:31/21 16:55	06:56 14:59-15:55/56 17:34	06:13 18:07	06:21 17:22-18:29/67 19:42	05:41 17:34-18:15/41 20:14	05:25 20:37
17	07:25 15:09-15:33/24 16:56	06:55 15:00-15:55/55 17:35	06:11 18:09	06:19 17:22-18:29/67 19:43	05:40 17:35-18:14/39 20:15	05:25 20:38
18	07:25 15:07-15:35/28 16:58	06:54 15:00-15:54/54 17:37	06:09 18:10	06:17 17:21-18:29/68 19:44	05:39 17:37-18:14/37 20:16	05:25 20:38
19	07:24 15:05-15:37/32 16:59	06:52 15:01-15:54/53 17:38	06:08 18:11	06:16 17:22-18:30/68 19:45	05:38 17:39-18:12/33 20:17	05:25 20:38
20	07:24 15:05-15:39/34 17:00	06:51 15:01-15:53/52 17:39	06:06 18:12	06:14 17:21-18:29/68 19:46	05:37 17:40-18:11/31 20:18	05:26 20:39
21	07:23 15:04-15:40/36 17:01	06:49 15:03-15:52/49 17:40	06:04 18:13	06:13 17:21-18:30/69 19:47	05:36 17:42-18:09/27 20:19	05:26 20:39
22	07:22 15:02-15:41/39 17:02	06:48 15:03-15:51/48 17:42	06:02 18:14	06:11 17:20-18:29/69 19:48	05:35 17:43-18:07/24 20:20	05:26 20:39
23	07:22 15:02-15:44/42 17:04	06:46 15:05-15:50/45 17:43	06:01 18:15	06:10 17:21-18:29/68 19:49	05:35 17:46-18:06/20 20:21	05:26 20:39
24	07:21 15:01-15:45/44 17:05	06:45 15:06-15:48/42 17:44	05:59 18:16	06:08 17:21-18:30/69 19:50	05:34 17:49-18:03/14 20:22	05:26 20:39
25	07:20 15:01-15:46/45 17:06	06:43 15:08-15:47/39 17:45	05:57 18:17	06:07 17:21-18:29/68 19:51	05:33 17:53-17:58/5 20:22	05:27 20:39
26	07:19 15:00-15:47/47 17:07	06:42 15:10-15:45/35 17:46	05:56 18:19	06:05 17:21-18:29/68 19:53	05:32 20:23	05:27 20:40
27	07:19 14:59-15:48/49 17:09	06:40 15:12-15:44/32 17:48	05:54 18:20	06:04 17:21-18:28/67 19:54	05:32 20:24	05:27 20:40
28	07:18 14:58-15:49/51 17:10	06:39 15:15-15:41/26 17:49	05:52 18:21	06:03 17:21-18:28/67 19:55	05:31 20:25	05:28 20:40
29	07:17 14:58-15:50/52 17:11		06:50 19:22	06:01 17:22-18:28/66 19:56	05:30 20:26	05:28 20:40
30	07:16 14:57-15:50/53 17:12		06:49 19:23	06:00 17:22-18:27/65 19:57	05:30 20:27	05:29 20:40
31	07:15 14:57-15:51/54 17:14		06:47 17:54-18:07/13 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	1194	1461	36	1784	1100	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: MT 01 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:54 17:40-18:30/50 20:20	06:25 17:25-18:26/61 19:36	06:56 18:44	06:32 14:26-15:26/60 16:56	07:07 07:55-08:23/28 16:31
2	05:30 20:39	05:55 17:39-18:31/52 20:19	06:26 17:26-18:25/59 19:34	06:58 18:42	06:33 14:26-15:25/59 16:55	07:09 07:55-08:24/29 16:31
3	05:30 20:39	05:56 17:38-18:32/54 20:18	06:28 17:26-18:23/57 19:32	06:59 18:41	06:34 14:26-15:25/59 16:54	07:10 07:55-08:25/30 16:31
4	05:31 20:39	05:57 17:37-18:32/55 20:16	06:29 17:27-18:22/55 19:31	07:00 18:39	06:35 14:26-15:25/59 16:53	07:11 07:55-08:25/30 16:30
5	05:31 20:39	05:58 17:36-18:33/57 20:15	06:30 17:28-18:20/52 19:29	07:01 18:37	06:37 14:26-15:25/59 16:51	07:12 07:55-08:26/31 16:30
6	05:32 20:38	05:59 17:35-18:33/58 20:14	06:31 17:29-18:18/49 19:27	07:02 18:36	06:38 14:26-15:24/58 16:50	07:13 07:56-08:26/30 16:30
7	05:33 20:38	06:00 17:35-18:34/59 20:13	06:32 17:30-18:16/46 19:26	07:03 18:34	06:39 14:26-15:24/58 16:49	07:14 07:56-08:27/31 16:30
8	05:33 20:38	06:01 17:34-18:34/60 20:11	06:33 17:32-18:14/42 19:24	07:04 18:32	06:40 14:27-15:24/57 16:48	07:14 07:56-08:28/32 16:30
9	05:34 20:37	06:02 17:33-18:35/62 20:10	06:34 17:34-18:11/37 19:22	07:05 18:31	06:42 14:28-15:23/55 16:47	07:15 07:57-08:28/31 16:30
10	05:35 20:37	06:03 17:32-18:35/63 20:09	06:35 17:36-18:08/32 19:21	07:06 18:29	06:43 14:28-15:23/55 16:46	07:16 07:56-08:28/32 16:30
11	05:35 20:37	06:04 17:32-18:35/63 20:08	06:36 17:39-18:05/26 19:19	07:07 18:27	06:44 14:29-15:23/54 16:45	07:17 07:56-08:29/33 16:30
12	05:36 20:36	06:05 17:31-18:36/65 20:06	06:37 17:44-17:59/15 19:17	07:08 15:55-16:08/13 18:26	06:45 14:29-15:22/53 16:44	07:18 07:57-08:29/32 16:30
13	05:37 20:36	06:06 17:30-18:36/66 20:05	06:38 19:15	07:10 15:50-16:12/22 18:24	06:46 14:30-15:21/51 16:43	07:19 07:58-08:30/32 16:30
14	05:37 20:35	06:07 17:30-18:36/66 20:03	06:39 19:14	07:11 15:46-16:14/28 18:23	06:48 14:31-15:22/51 16:42	07:20 07:58-08:31/33 16:30
15	05:38 20:34	06:08 17:29-18:36/67 20:02	06:40 19:12	07:12 15:43-16:16/33 18:21	06:49 14:32-15:21/49 16:41	07:20 07:58-08:31/33 16:31
16	05:39 20:34	06:09 17:28-18:36/68 20:01	06:41 19:10	07:13 15:41-16:18/37 18:19	06:50 14:33-15:20/47 16:40	07:21 07:59-08:31/32 16:31
17	05:40 20:33	06:10 17:28-18:36/68 19:59	06:42 19:08	07:14 15:39-16:19/40 18:18	06:51 14:35-15:20/45 16:39	07:22 07:59-08:32/33 16:31
18	05:41 20:33	06:11 17:27-18:36/69 19:58	06:43 19:07	07:15 15:37-16:20/43 18:16	06:53 14:35-15:19/44 16:39	07:22 07:59-08:32/33 16:31
19	05:42 18:00-18:11/11 20:32	06:12 17:27-18:35/68 19:56	06:44 19:05	07:16 15:35-16:21/46 18:15	06:54 14:36-15:18/42 16:38	07:23 08:00-08:33/33 16:32
20	05:42 17:57-18:14/17 20:31	06:13 17:27-18:35/68 19:55	06:45 19:03	07:18 15:33-16:22/49 18:13	06:55 14:37-15:16/39 16:37	07:24 08:00-08:33/33 16:32
21	05:43 17:55-18:17/22 20:30	06:14 17:26-18:35/69 19:53	06:46 19:01	07:19 15:33-16:23/50 18:12	06:56 14:40-15:16/36 16:36	07:24 08:01-08:34/33 16:33
22	05:44 17:53-18:19/26 20:29	06:15 17:26-18:34/68 19:52	06:47 19:00	07:20 15:31-16:23/52 18:10	06:57 14:41-15:15/34 16:36 08:02-08:10/8	07:25 08:01-08:34/33 16:33
23	05:45 17:51-18:21/30 20:29	06:16 17:26-18:34/68 19:50	06:48 18:58	07:21 15:30-16:24/54 18:09	06:58 14:42-15:14/32 16:35 07:59-08:13/14	07:25 08:02-08:35/33 16:34
24	05:46 17:50-18:22/32 20:28	06:17 17:26-18:33/67 19:49	06:49 18:56	07:22 15:29-16:24/55 18:07	07:00 14:44-15:12/28 16:34 07:58-08:14/16	07:26 08:02-08:35/33 16:34
25	05:47 17:49-18:24/35 20:27	06:18 17:25-18:33/68 19:47	06:50 18:54	06:23 14:29-15:25/56 17:06	07:01 14:47-15:12/25 16:34 07:57-08:17/20	07:26 08:03-08:36/33 16:35
26	05:48 17:46-18:24/38 20:26	06:19 17:25-18:32/67 19:45	06:51 18:53	06:25 14:28-15:25/57 17:04	07:02 14:49-15:10/21 16:33 07:56-08:18/22	07:26 08:03-08:36/33 16:35
27	05:49 17:45-18:25/40 20:25	06:20 17:25-18:32/67 19:44	06:52 18:51	06:26 14:27-15:25/58 17:03	07:03 14:51-15:07/16 16:33 07:56-08:19/23	07:27 08:04-08:36/32 16:36
28	05:50 17:44-18:26/42 20:24	06:21 17:25-18:31/66 19:42	06:53 18:49	06:27 14:26-15:25/59 17:02	07:04 14:55-15:04/9 16:32 07:55-08:20/25	07:27 08:04-08:36/32 16:37
29	05:51 17:43-18:27/44 20:23	06:22 17:25-18:30/65 19:41	06:54 18:48	06:28 14:27-15:26/59 17:00	07:05 07:55-08:21/26 16:32	07:27 08:05-08:38/33 16:37
30	05:52 17:42-18:28/46 20:22	06:23 17:26-18:29/63 19:39	06:55 18:46	06:29 14:26-15:25/59 16:59	07:06 07:55-08:21/26 16:32	07:28 08:05-08:38/33 16:38
31	05:53 17:41-18:29/48 20:21	06:24 17:26-18:28/62 19:37	06:56 18:45	06:31 14:26-15:25/59 16:58	07:07 07:55-08:21/26 16:32	07:28 08:06-08:38/32 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	431	1968	531	929	1435	991

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: MT 02 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 17:15	06:37 07:37-08:53/76 17:50	06:45 19:25	05:58 19:58	05:29 06:11-07:21/70 20:28
2	07:28 16:41	07:13 17:16	06:36 07:38-08:53/75 17:51	06:44 19:26	05:57 19:59	05:28 06:10-07:21/71 20:29
3	07:28 16:42	07:12 08:10-08:23/13 17:17	06:34 07:37-08:53/76 17:52	06:42 19:27	05:56 20:00	05:28 06:10-07:22/72 20:30
4	07:28 16:43	07:11 08:05-08:28/23 17:19	06:32 07:38-08:53/75 17:53	06:40 19:28	05:55 20:01	05:27 06:09-07:22/73 20:01
5	07:28 16:44	07:10 08:02-08:32/30 17:20	06:31 07:37-08:52/75 17:55	06:39 19:29	05:53 20:02	05:27 06:09-07:23/74 20:31
6	07:28 16:45	07:09 08:00-08:35/35 17:21	06:29 07:37-08:51/74 17:56	06:37 19:31	05:52 20:03	05:27 06:09-07:24/75 20:32
7	07:28 16:45	07:08 07:58-08:38/40 17:23	06:28 07:38-08:51/73 17:57	06:35 19:32	05:51 20:04	05:26 06:09-07:24/75 20:33
8	07:28 16:46	07:06 07:55-08:39/44 17:24	06:26 07:38-08:49/71 17:58	06:34 19:33	05:50 20:06	05:26 06:08-07:24/76 20:33
9	07:28 16:48	07:05 07:54-08:41/47 17:25	06:24 07:37-08:48/71 17:59	06:32 19:34	05:48 20:07	05:26 06:08-07:25/77 20:34
10	07:28 16:49	07:04 07:52-08:43/51 17:26	06:23 07:38-08:48/70 18:00	06:30 19:35	05:47 20:08	05:26 06:08-07:25/77 20:34
11	07:27 16:50	07:03 07:51-08:45/54 17:28	06:21 07:38-08:47/69 18:02	06:29 19:36	05:46 20:09	05:26 06:08-07:26/78 20:35
12	07:27 16:51	07:02 07:49-08:45/56 17:29	06:19 07:38-08:45/67 18:03	06:27 19:37	05:45 20:10	05:25 06:08-07:26/78 20:35
13	07:27 16:52	07:00 07:48-08:47/59 17:30 07:20-07:23/3	06:18 07:40-08:44/64 18:04	06:25 19:38	05:44 20:11	05:25 06:08-07:27/79 20:36
14	07:26 16:53	06:59 07:47-08:48/61 17:32 07:19-07:24/5	06:16 07:40-08:43/63 18:05	06:24 19:39	05:43 20:12	05:25 06:08-07:27/79 20:36
15	07:26 16:54	06:58 07:46-08:49/63 17:33 07:17-07:23/6	06:14 07:40-08:41/61 18:06	06:22 19:40	05:42 06:36-06:51/15 20:13	05:25 06:08-07:28/80 20:37
16	07:26 16:55	06:56 07:45-08:50/65 17:34 07:16-07:24/8	06:13 07:41-08:39/58 18:07	06:21 19:42	05:41 06:31-06:56/25 20:14	05:25 06:08-07:28/80 20:37
17	07:25 16:56	06:55 07:45-08:51/66 17:35 07:15-07:24/9	06:11 07:42-08:38/56 18:08	06:19 19:43	05:40 06:28-06:59/31 20:15	05:25 06:08-07:28/80 20:38
18	07:25 16:58	06:54 07:43-08:51/68 17:37 07:13-07:24/11	06:09 07:43-08:36/53 18:10	06:17 19:44	05:39 06:26-07:03/37 20:16	05:25 06:08-07:28/80 20:38
19	07:24 16:59	06:52 07:43-08:52/69 17:38 07:12-07:24/12	06:07 07:44-08:33/49 18:11	06:16 19:45	05:38 06:24-07:05/41 20:17	05:25 06:08-07:28/80 20:38
20	07:24 17:00	06:51 07:42-08:52/70 17:39 07:10-07:22/12	06:06 07:46-08:32/46 18:12	06:14 19:46	05:37 06:22-07:07/45 20:18	05:26 06:08-07:29/81 20:39
21	07:23 17:01	06:49 07:42-08:53/71 17:40 07:09-07:22/13	06:04 07:47-08:29/42 18:13	06:13 19:47	05:36 06:20-07:08/48 20:19	05:26 06:09-07:30/81 20:39
22	07:22 17:02	06:48 07:40-08:53/73 17:41 07:07-07:19/12	06:02 07:49-08:26/37 18:14	06:11 19:48	05:35 06:18-07:09/51 20:20	05:26 06:09-07:30/81 20:39
23	07:22 17:04	06:46 07:40-08:54/74 17:43 07:11-07:17/6	06:01 07:51-08:22/31 18:15	06:10 19:49	05:35 06:18-07:12/54 20:21	05:26 06:09-07:30/81 20:39
24	07:21 17:05	06:45 07:39-08:54/75 17:44	05:59 07:54-08:19/25 18:16	06:08 19:50	05:34 06:16-07:13/57 20:22	05:26 06:09-07:29/80 20:39
25	07:20 17:06	06:43 07:39-08:54/75 17:45	05:57 07:59-08:13/14 18:17	06:07 19:51	05:33 06:15-07:13/58 20:22	05:27 06:10-07:30/80 20:39
26	07:19 17:07	06:42 07:39-08:54/75 17:46	05:56 18:18	06:05 19:53	05:32 06:15-07:15/60 20:23	05:27 06:10-07:30/80 20:39
27	07:19 17:09	06:40 07:39-08:54/75 17:48	05:54 18:20	06:04 19:54	05:32 06:13-07:16/63 20:24	05:27 06:10-07:30/80 20:40
28	07:18 17:10	06:39 07:38-08:54/76 17:49	05:52 18:21	06:03 19:55	05:31 06:13-07:17/64 20:25	05:28 06:11-07:30/79 20:40
29	07:17 17:11		06:50 19:22	06:01 19:56	05:30 06:12-07:18/66 20:26	05:28 06:11-07:30/79 20:40
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 06:11-07:18/67 20:27	05:29 06:12-07:31/79 20:39
31	07:15 17:14		06:47 19:24		05:29 06:11-07:19/68 20:27	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	0	1605	1471	0	850	2335

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: MT 02 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 06:12-07:30/78 20:39	05:54 06:20 20:20	06:25 06:36 19:36	06:56 08:18-09:24/66 18:44	06:32 07:22-08:12/50 16:56	07:07 16:31
2	05:30 06:13-07:31/78 20:39	05:55 06:26 20:19	06:26 06:34 19:34	06:58 08:17-09:25/68 18:42	06:33 07:24-08:11/47 16:55	07:08 16:31
3	05:30 06:13-07:30/77 20:39	05:56 06:27 20:18	06:27 06:32 19:32	06:59 08:16-09:25/69 18:41	06:34 07:25-08:08/43 16:54	07:10 16:31
4	05:31 06:14-07:30/76 20:39	05:57 06:28 20:16	06:28 06:31 19:31	07:00 08:15-09:26/71 18:39	06:35 07:28-08:07/39 16:53	07:11 16:30
5	05:31 06:14-07:30/76 20:39	05:58 06:30 20:15	06:30 06:33 19:29	07:01 08:14-09:26/72 18:37	06:37 07:30-08:05/35 16:51	07:12 16:30
6	05:32 06:15-07:30/75 20:38	05:59 06:31 20:14	06:31 06:34 19:27	07:02 08:14-09:26/72 18:36	06:38 07:32-08:02/30 16:50	07:13 16:30
7	05:32 06:15-07:29/74 20:38	06:00 06:32 20:13	06:32 06:35 19:26	07:03 08:13-09:26/73 18:34	06:39 07:36-07:58/22 16:49	07:13 16:30
8	05:33 06:16-07:29/73 20:38	06:01 06:33 20:11	06:33 06:36 19:24	07:04 08:12-09:26/74 18:32	06:40 07:42-07:53/11 16:48	07:14 16:30
9	05:34 06:17-07:29/72 20:37	06:02 06:34 20:10	06:34 06:37 19:22	07:05 08:13-09:27/74 18:31	06:41 06:47 16:47	07:15 16:30
10	05:34 06:17-07:28/71 20:37	06:03 06:35 20:09	06:35 06:38 19:20	07:06 08:12-09:27/75 18:29	06:43 06:46 16:46	07:16 16:30
11	05:35 06:18-07:28/70 20:37	06:04 06:36 20:08	06:36 06:39 19:19	07:07 08:12-09:27/75 18:27	06:44 06:45 16:45	07:17 16:30
12	05:36 06:19-07:28/69 20:36	06:05 06:37 20:06	06:37 06:40 19:17	07:08 08:11-09:27/76 18:26	06:45 06:44 16:44	07:18 16:30
13	05:37 06:20-07:28/68 20:36	06:06 06:38 20:05	06:38 06:41 19:15	07:10 08:11-09:26/75 18:24	06:46 06:43 16:43	07:19 16:30
14	05:37 06:20-07:26/66 20:35	06:07 06:39 20:03	06:39 06:42 19:14	07:11 08:11-09:26/75 18:22	06:48 06:42 16:42	07:20 16:30
15	05:38 06:21-07:26/65 20:34	06:08 06:40 20:02	06:40 06:43 19:12	07:12 08:10-09:26/76 18:21	06:49 06:41 16:41	07:20 16:31
16	05:39 06:22-07:26/64 20:34	06:09 06:41 20:01	06:41 06:44 19:10	07:13 08:11-09:26/75 18:19	06:50 06:40 16:40	07:21 16:31
17	05:40 06:23-07:25/62 20:33	06:10 06:42 19:59	06:42 06:45 19:08	07:14 08:11-09:26/75 18:18	06:51 06:39 16:39	07:22 16:31
18	05:41 06:25-07:24/59 20:32	06:11 06:43 19:58	06:43 08:48-08:59/11 19:07	07:15 08:11-09:25/74 18:16	06:52 06:38 16:38	07:22 16:31
19	05:42 06:25-07:23/58 20:32	06:12 06:44 19:56	06:44 08:41-09:04/23 19:05	07:16 08:11-09:24/73 18:15	06:54 06:38 16:38	07:23 16:32
20	05:42 06:26-07:22/56 20:31	06:13 06:45 19:55	06:45 08:38-09:08/30 19:03	07:17 08:11-09:24/73 18:13	06:55 06:37 16:37	07:24 16:32
21	05:43 06:28-07:21/53 20:30	06:14 06:46 19:53	06:46 08:35-09:11/36 19:01	07:19 08:12-09:24/72 18:12	06:56 06:36 16:36	07:24 16:33
22	05:44 06:29-07:19/50 20:29	06:15 06:47 19:52	06:47 08:32-09:13/41 19:00	07:20 08:12-09:23/71 18:10	06:57 06:36 16:36	07:25 16:33
23	05:45 06:31-07:18/47 20:29	06:16 06:48 19:50	06:48 08:30-09:15/45 18:58	07:21 08:13-09:22/69 18:09	06:58 06:35 16:35	07:25 16:34
24	05:46 06:33-07:16/43 20:28	06:17 06:49 19:49	06:49 08:28-09:16/48 18:56	07:22 08:13-09:21/68 18:07	07:00 06:34 16:34	07:26 16:34
25	05:47 06:35-07:14/39 20:27	06:18 06:50 19:47	06:50 08:26-09:18/52 18:54	06:23 07:15-08:21/66 17:06	07:01 06:34 16:34	07:26 16:35
26	05:48 06:37-07:11/34 20:26	06:19 06:51 19:45	06:51 08:24-09:19/55 18:53	06:25 07:15-08:19/64 17:04	07:02 06:33 16:33	07:26 16:35
27	05:49 06:40-07:08/28 20:25	06:20 06:52 19:44	06:52 08:23-09:21/58 18:51	06:26 07:16-08:18/62 17:03	07:03 06:33 16:33	07:27 16:36
28	05:50 06:44-07:05/21 20:24	06:21 06:53 19:42	06:53 08:22-09:22/60 18:49	06:27 07:16-08:17/61 17:02	07:04 06:32 16:32	07:27 16:37
29	05:51 06:51-06:58/7 20:23	06:22 06:54 19:41	06:54 08:21-09:23/62 18:48	06:28 07:18-08:16/58 17:00	07:05 06:32 16:32	07:27 16:37
30	05:52 06:52-06:58/7 20:22	06:23 06:55 19:39	06:55 08:19-09:24/65 18:46	06:29 07:19-08:15/56 16:59	07:06 06:31 16:31	07:28 16:38
31	05:53 06:53-06:58/7 20:21	06:24 06:56 19:37		06:31 07:20-08:13/53 16:58		07:28 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	1709	0	586	2256	277	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: MT 03 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 08:00-08:31/31 17:15	06:37 07:45-08:43/58 17:50	06:45 19:25	05:58 19:58	05:29 20:28
2	07:28 16:41	07:13 07:58-08:33/35 17:16	06:36 07:46-08:43/57 17:51	06:44 19:26	05:57 19:59	05:28 20:29
3	07:28 16:42	07:12 07:57-08:35/38 17:17	06:34 07:46-08:41/55 17:52	06:42 19:27	05:56 20:00	05:28 20:30
4	07:28 16:43	07:11 07:55-08:37/42 17:19	06:32 07:47-08:41/54 17:53	06:40 19:28	05:55 20:01	05:27 20:31
5	07:28 16:44	07:10 07:54-08:38/44 17:20	06:31 07:48-08:39/51 17:55	06:39 19:29	05:53 20:02	05:27 20:31
6	07:28 16:44	07:09 07:53-08:40/47 17:21	06:29 07:48-08:37/49 17:56	06:37 19:31	05:52 20:03	05:27 20:32
7	07:28 16:45	07:08 07:52-08:41/49 17:23	06:28 07:50-08:36/46 17:57	06:35 19:32	05:51 20:04	05:26 20:33
8	07:28 16:46	07:06 07:51-08:42/51 17:24	06:26 07:51-08:34/43 17:58	06:34 19:33	05:50 20:06	05:26 20:33
9	07:28 16:47	07:05 07:50-08:43/53 17:25	06:24 07:52-08:32/40 17:59	06:32 19:34	05:48 20:07	05:26 20:34
10	07:28 16:49	07:04 07:50-08:44/54 17:26	06:23 07:54-08:30/36 18:00	06:30 19:35	05:47 20:08	05:26 20:34
11	07:27 16:50	07:03 07:49-08:45/56 17:28	06:21 07:55-08:27/32 18:02	06:29 19:36	05:46 20:09	05:26 20:35
12	07:27 16:51	07:02 07:48-08:45/57 17:29	06:19 07:58-08:23/25 18:03	06:27 19:37	05:45 20:10	05:25 20:35
13	07:27 16:52	07:00 07:47-08:46/59 17:30	06:18 08:02-08:20/18 18:04	06:25 19:38	05:44 20:11	05:25 20:36
14	07:27 16:53	06:59 07:47-08:47/60 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36
15	07:26 16:54	06:58 07:46-08:47/61 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37
16	07:26 16:55	06:56 07:46-08:47/61 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37
17	07:25 16:56	06:55 07:46-08:48/62 17:35	06:11 06:30-06:31/1 18:08	06:19 19:43	05:40 20:15	05:25 20:38
18	07:25 16:58	06:54 07:45-08:48/63 17:37	06:09 06:28-06:32/4 18:10	06:17 19:44	05:39 20:16	05:25 20:38
19	07:24 16:59	06:52 07:45-08:48/63 17:38	06:07 06:26-06:32/6 18:11	06:16 19:45	05:38 20:17	05:25 20:38
20	07:24 17:00	06:51 07:45-08:48/63 17:39	06:06 06:25-06:33/8 18:12	06:14 19:46	05:37 20:18	05:26 20:39
21	07:23 17:01	06:49 07:45-08:48/63 17:40	06:04 06:23-06:32/9 18:13	06:13 19:47	05:36 20:19	05:26 20:39
22	07:22 17:02	06:48 07:44-08:47/63 17:41	06:02 06:21-06:32/11 18:14	06:11 19:48	05:35 20:20	05:26 20:39
23	07:22 17:04	06:46 07:45-08:48/63 17:43	06:01 06:19-06:31/12 18:15	06:10 19:49	05:35 20:21	05:26 20:39
24	07:21 17:05	06:45 07:44-08:47/63 17:44	05:59 06:18-06:31/13 18:16	06:08 19:50	05:34 20:22	05:26 20:39
25	07:20 17:06	06:43 07:45-08:47/62 17:45	05:57 06:16-06:30/14 18:17	06:07 19:51	05:33 20:22	05:27 20:39
26	07:19 17:07	06:42 07:44-08:46/62 17:46	05:56 06:14-06:28/14 18:18	06:05 19:53	05:32 20:23	05:27 20:40
27	07:19 17:09	06:40 07:45-08:46/61 17:48	05:54 06:13-06:27/14 18:20	06:04 19:54	05:32 20:24	05:27 20:40
28	07:18 17:10	06:39 07:45-08:45/60 17:49	05:52 06:14-06:24/10 18:21	06:03 19:55	05:31 20:25	05:28 20:40
29	07:17 08:09-08:20/11 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 08:05-08:25/20 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:29 20:39
31	07:15 08:02-08:28/26 17:14		06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	57	1546	680	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: MT 03 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:54 20:20	06:25 19:36	06:56 08:39-09:01/22 18:44	06:32 07:19-08:14/55 16:56	07:07 16:31
2	05:30 20:39	05:55 20:19	06:26 19:34	06:58 08:35-09:04/29 18:42	06:33 07:20-08:13/53 16:55	07:09 16:31
3	05:30 20:39	05:56 20:18	06:27 19:32	06:59 08:32-09:07/35 18:41	06:34 07:21-08:11/50 16:54	07:10 16:31
4	05:31 20:39	05:57 20:16	06:28 19:31	07:00 08:30-09:08/38 18:39	06:35 07:22-08:11/49 16:53	07:11 16:30
5	05:31 20:39	05:58 20:15	06:30 19:29	07:01 08:28-09:10/42 18:37	06:37 07:23-08:10/47 16:51	07:12 16:30
6	05:32 20:38	05:59 20:14	06:31 19:27	07:02 08:26-09:11/45 18:36	06:38 07:24-08:08/44 16:50	07:13 16:30
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 08:24-09:12/48 18:34	06:39 07:25-08:07/42 16:49	07:14 16:30
8	05:33 20:38	06:01 20:11	06:33 19:24	07:04 08:23-09:13/50 18:32	06:40 07:28-08:06/38 16:48	07:14 16:30
9	05:34 20:37	06:02 20:10	06:34 19:22	07:05 08:23-09:15/52 18:31	06:42 07:29-08:04/35 16:47	07:15 16:30
10	05:34 20:37	06:03 20:09	06:35 19:20	07:06 08:21-09:16/55 18:29	06:43 07:31-08:02/31 16:46	07:16 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 08:20-09:16/56 18:27	06:44 07:34-08:00/26 16:45	07:17 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 08:19-09:17/58 18:26	06:45 07:37-07:57/20 16:44	07:18 16:30
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 08:18-09:17/59 18:24	06:46 07:41-07:52/11 16:43	07:19 16:30
14	05:37 20:35	06:07 20:03	06:39 19:14	07:11 08:17-09:17/60 18:22	06:48 16:42	07:20 16:30
15	05:38 20:34	06:08 20:02	06:40 07:04-07:12/8 19:12	07:12 08:18-09:18/60 18:21	06:49 16:41	07:20 16:31
16	05:39 20:34	06:09 20:01	06:41 07:01-07:15/14 19:10	07:13 08:17-09:18/61 18:19	06:50 16:40	07:21 16:31
17	05:40 20:33	06:10 19:59	06:42 07:02-07:16/14 19:08	07:14 08:16-09:18/62 18:18	06:51 16:39	07:22 16:31
18	05:41 20:33	06:11 19:58	06:43 07:03-07:17/14 19:07	07:15 08:16-09:18/62 18:16	06:52 16:38	07:22 16:31
19	05:41 20:32	06:12 19:56	06:44 07:04-07:17/13 19:05	07:16 08:15-09:18/63 18:15	06:54 16:38	07:23 16:32
20	05:42 20:31	06:13 19:55	06:45 07:05-07:17/12 19:03	07:17 08:15-09:18/63 18:13	06:55 16:37	07:24 16:32
21	05:43 20:30	06:14 19:53	06:46 07:06-07:17/11 19:01	07:19 08:15-09:19/64 18:12	06:56 16:36	07:24 16:33
22	05:44 20:29	06:15 19:52	06:47 07:07-07:17/10 19:00	07:20 08:15-09:18/63 18:10	06:57 16:36	07:25 16:33
23	05:45 20:29	06:16 19:50	06:48 07:08-07:16/8 18:58	07:21 08:15-09:18/63 18:09	06:58 16:35	07:25 16:34
24	05:46 20:28	06:17 19:49	06:49 07:09-07:15/6 18:56	07:22 08:15-09:17/62 18:07	07:00 16:34	07:26 16:34
25	05:47 20:27	06:18 19:47	06:50 07:11-07:15/4 18:54	06:23 07:16-08:18/62 17:06	07:01 16:34	07:26 16:35
26	05:48 20:26	06:19 19:45	06:51 07:12-07:14/2 18:53	06:25 07:16-08:17/61 17:04	07:02 16:33	07:26 16:35
27	05:49 20:25	06:20 19:44	06:52 18:51	06:26 07:16-08:16/60 17:03	07:03 16:33	07:27 16:36
28	05:50 20:24	06:21 19:42	06:53 18:49	06:27 07:16-08:16/60 17:02	07:04 16:32	07:27 16:37
29	05:51 20:23	06:22 19:41	06:54 18:48	06:28 07:17-08:16/59 17:00	07:05 16:32	07:27 16:37
30	05:52 20:22	06:23 19:39	06:55 08:44-08:57/13 18:46	06:29 07:18-08:15/57 16:59	07:06 16:31	07:28 16:38
31	05:53 20:21	06:24 19:37		06:31 07:18-08:14/56 16:58		07:28 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	0	0	129	1687	501	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: MT 04 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 15:39-16:00/21 16:40	07:14 17:15	06:37 15:41-16:37/56 17:50	06:45 07:23-08:16/53 19:25	05:59 19:58	05:29 19:09-19:51/42 20:28
2	07:28 15:39-16:01/22 16:41	07:13 17:16	06:36 15:42-16:37/55 17:51	06:44 07:23-08:14/51 19:26	05:57 19:59	05:28 19:08-19:50/42 20:29
3	07:28 15:39-16:01/22 16:42	07:12 17:18	06:34 15:42-16:36/54 17:52	06:42 07:25-08:14/49 19:27	05:56 20:00	05:28 19:08-19:51/43 20:30
4	07:28 15:40-16:02/22 16:43	07:11 16:01-16:17/16 17:19	06:32 15:43-16:36/53 17:54	06:40 07:25-08:12/47 19:28	05:55 20:01	05:28 19:08-19:51/43 20:31
5	07:28 15:40-16:02/22 16:44	07:10 15:58-16:21/23 17:20	06:31 15:44-16:34/50 17:55	06:39 07:26-08:10/44 19:30	05:53 20:02	05:27 19:08-19:52/44 20:31
6	07:28 15:41-16:03/22 16:45	07:09 15:55-16:24/29 17:21	06:29 15:44-16:33/49 17:56 06:48-07:07/19 19:31	06:37 07:27-08:09/42 19:31	05:52 20:03	05:27 19:08-19:52/44 20:32
7	07:28 15:41-16:04/23 16:46	07:08 15:54-16:26/32 17:23	06:28 15:46-16:32/46 17:57 06:47-07:11/24 19:32	06:35 07:28-08:07/39 19:32	05:51 20:05	05:26 19:08-19:53/45 20:33
8	07:28 15:41-16:03/22 16:47	07:07 15:51-16:27/36 17:24	06:26 15:47-16:31/44 17:58 06:45-07:13/28 19:33	06:34 07:29-08:04/35 19:33	05:50 20:06	05:26 19:08-19:53/45 20:33
9	07:28 15:42-16:04/22 16:48	07:05 15:50-16:29/39 17:25	06:24 15:48-16:29/41 17:59 06:43-07:15/32 19:34	06:32 07:32-08:02/30 19:34	05:48 20:07	05:26 19:08-19:53/45 20:34
10	07:28 15:42-16:05/23 16:49	07:04 15:49-16:31/42 17:26	06:23 15:50-16:28/38 18:01 06:42-07:17/35 19:35	06:30 07:34-07:59/25 19:35	05:47 20:08	05:26 19:08-19:54/46 20:34
11	07:28 15:42-16:04/22 16:50	07:03 15:48-16:32/44 17:28	06:21 15:51-16:26/35 18:02 06:40-07:18/38 19:36	06:29 07:36-07:55/19 19:36	05:46 20:09	05:26 19:08-19:54/46 20:35
12	07:27 15:43-16:05/22 16:51	07:02 15:46-16:33/47 17:29	06:19 15:53-16:23/30 18:03 06:38-07:19/41 19:37	06:27 07:43-07:48/5 19:37	05:45 20:10	05:25 19:09-19:54/45 20:35
13	07:27 15:44-16:05/21 16:52	07:00 15:45-16:34/49 17:30	06:18 15:56-16:21/25 18:04 06:37-07:21/44 19:38	06:25 19:38	05:44 20:11	05:25 19:09-19:55/46 20:36
14	07:27 15:44-16:05/21 16:53	06:59 15:45-16:35/50 17:32	06:16 16:00-16:16/16 18:05 06:35-07:21/46 19:39	06:24 19:39	05:43 20:12	05:25 19:09-19:55/46 20:36
15	07:26 15:45-16:06/21 16:54	06:58 15:44-16:36/52 17:33	06:14 06:33-07:21/48 18:06 19:41	06:22 19:41	05:42 20:13	05:25 19:09-19:55/46 20:37
16	07:26 15:46-16:05/19 16:55	06:56 15:43-16:37/54 17:34	06:13 06:31-07:22/51 18:07 19:42	06:21 19:42	05:41 20:14	05:25 19:09-19:55/46 20:37
17	07:25 15:47-16:05/18 16:56	06:55 15:43-16:38/55 17:35	06:11 06:30-07:23/53 18:09 19:43	06:19 19:43	05:40 19:22-19:33/11 20:15	05:25 19:09-19:56/47 20:38
18	07:25 15:48-16:05/17 16:58	06:54 15:42-16:38/56 17:37	06:09 06:28-07:23/55 18:10 19:44	06:18 19:44	05:39 19:20-19:37/17 20:16	05:25 19:09-19:56/47 20:38
19	07:24 15:49-16:04/15 16:59	06:52 15:42-16:38/56 17:38	06:08 06:26-07:22/56 18:11 19:45	06:16 19:45	05:38 19:18-19:39/21 20:17	05:25 19:09-19:56/47 20:38
20	07:24 15:51-16:04/13 17:00	06:51 15:41-16:38/57 17:39	06:06 06:25-07:23/58 18:12 19:46	06:14 19:46	05:37 19:16-19:40/24 20:18	05:26 19:09-19:56/47 20:39
21	07:23 15:52-16:02/10 17:01	06:49 15:41-16:39/58 17:40	06:04 06:24-07:23/59 18:13 19:47	06:13 19:47	05:36 19:14-19:41/27 20:19	05:26 19:10-19:57/47 20:39
22	07:22 15:56-15:59/3 17:02	06:48 15:41-16:38/57 17:42	06:02 06:24-07:22/58 18:14 19:48	06:11 19:48	05:35 19:13-19:42/29 20:20	05:26 19:10-19:57/47 20:39
23	07:22 17:04	06:46 15:41-16:39/58 17:43	06:01 06:23-07:22/59 18:15 19:49	06:10 19:49	05:35 19:13-19:44/31 20:21	05:26 19:10-19:57/47 20:39
24	07:21 17:05	06:45 15:40-16:39/59 17:44	05:59 06:23-07:22/59 18:16 19:50	06:08 19:50	05:34 19:12-19:45/33 20:22	05:26 19:10-19:57/47 20:39
25	07:20 17:06	06:43 15:41-16:39/58 17:45	05:57 06:23-07:22/59 18:17 19:51	06:07 19:51	05:33 19:11-19:45/34 20:22	05:27 19:11-19:58/47 20:39
26	07:19 17:07	06:42 15:41-16:38/57 17:46	05:56 06:22-07:21/59 18:19 19:53	06:05 19:53	05:32 19:11-19:47/36 20:23	05:27 19:11-19:58/47 20:40
27	07:19 17:09	06:40 15:41-16:39/58 17:48	05:54 06:23-07:21/58 18:20 19:54	06:04 19:54	05:32 19:10-19:47/37 20:24	05:27 19:11-19:57/46 20:40
28	07:18 17:10	06:39 15:41-16:38/57 17:49	05:52 06:23-07:20/57 18:21 19:55	06:03 19:55	05:31 19:10-19:48/38 20:25	05:28 19:12-19:58/46 20:40
29	07:17 17:11	06:38 17:49	05:51 06:23-07:20/57 18:22 19:56	06:02 19:56	05:30 19:09-19:49/40 20:26	05:28 19:12-19:58/46 20:40
30	07:16 17:12	06:37 17:48	05:50 06:23-07:20/57 18:23 19:57	06:01 19:57	05:30 19:08-19:49/41 20:27	05:29 19:13-19:58/45 20:40
31	07:15 17:14	06:36 17:47	05:49 06:23-07:20/57 18:24 19:58	06:00 19:58	05:29 19:09-19:50/41 20:28	05:29 19:13-19:58/45 20:40
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	423	1199	1855	439	460	1367

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: MT 04 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	19:12-19:58/46	05:54		06:25	07:36-07:55/19	06:57	16:34-17:01/27	06:32	15:19-16:00/41	07:07	15:24-15:46/22
	20:39		20:20		19:36		18:44	07:17-07:59/42	16:56		16:31	
2	05:30	19:13-19:59/46	05:55		06:26	07:33-07:58/25	06:58	16:31-17:03/32	06:33	15:20-15:59/39	07:09	15:25-15:48/23
	20:39		20:19		19:34		18:42	07:18-07:57/39	16:55		16:31	
3	05:30	19:13-19:58/45	05:56		06:28	07:30-08:00/30	06:59	16:28-17:05/37	06:34	15:21-15:57/36	07:10	15:26-15:48/22
	20:39		20:18		19:32		18:41	07:19-07:56/37	16:54		16:31	
4	05:31	19:14-19:59/45	05:57		06:29	07:27-08:02/35	07:00	16:26-17:06/40	06:35	15:24-15:56/32	07:11	15:26-15:48/22
	20:39		20:16		19:31		18:39	07:20-07:53/33	16:53		16:30	
5	05:31	19:13-19:58/45	05:58		06:30	07:24-08:03/39	07:01	16:24-17:07/43	06:37	15:26-15:53/27	07:12	15:26-15:49/23
	20:39		20:15		19:29		18:37	07:21-07:51/30	16:51		16:30	
6	05:32	19:14-19:59/45	05:59		06:31	07:22-08:04/42	07:02	16:22-17:08/46	06:38	15:28-15:50/22	07:13	15:27-15:49/22
	20:38		20:14		19:27		18:36	07:22-07:48/26	16:50		16:30	
7	05:33	19:14-19:58/44	06:00		06:32	07:21-08:05/44	07:03	16:20-17:08/48	06:39	15:31-15:46/15	07:14	15:27-15:49/22
	20:38		20:13		19:26		18:34	07:23-07:45/22	16:49		16:30	
8	05:33	19:15-19:58/43	06:01		06:33	07:19-08:06/47	07:04	16:19-17:09/50	06:40		07:14	15:28-15:50/22
	20:38		20:12		19:24		18:32	07:27-07:41/14	16:48		16:30	
9	05:34	19:15-19:59/44	06:02		06:34	07:18-08:07/49	07:05	16:19-17:10/51	06:42		07:15	15:27-15:49/22
	20:37		20:10		19:22		18:31		16:47		16:30	
10	05:35	19:15-19:58/43	06:03		06:35	07:17-08:07/50	07:06	16:17-17:10/53	06:43		07:16	15:28-15:50/22
	20:37		20:09		19:21		18:29		16:46		16:30	
11	05:35	19:16-19:58/42	06:04		06:36	07:16-08:08/52	07:07	16:16-17:10/54	06:44		07:17	15:29-15:50/21
	20:37		20:08		19:19		18:27		16:45		16:30	
12	05:36	19:17-19:58/41	06:05		06:37	07:15-08:08/53	07:08	16:15-17:10/55	06:45		07:18	15:30-15:51/21
	20:36		20:06		19:17		18:26		16:44		16:30	
13	05:37	19:17-19:58/41	06:06		06:38	07:14-08:09/55	07:10	16:14-17:10/56	06:46		07:19	15:30-15:51/21
	20:36		20:05		19:15		18:24		16:43		16:30	
14	05:37	19:17-19:57/40	06:07		06:39	07:13-08:09/56	07:11	16:13-17:10/57	06:48		07:20	15:31-15:52/21
	20:35		20:03		19:14		18:23		16:42		16:30	
15	05:38	19:18-19:57/39	06:08		06:40	07:12-08:09/57	07:12	16:14-17:11/57	06:49		07:20	15:31-15:51/20
	20:34		20:02		19:12		18:21		16:41		16:31	
16	05:39	19:19-19:57/38	06:09		06:41	07:11-08:09/58	07:13	16:13-17:11/58	06:50		07:21	15:32-15:52/20
	20:34		20:01		19:10		18:19		16:40		16:31	
17	05:40	19:20-19:57/37	06:10		06:42	07:11-08:09/58	07:14	16:12-17:10/58	06:51		07:22	15:33-15:52/19
	20:33		19:59		19:08		18:18		16:39		16:31	
18	05:41	19:21-19:56/35	06:11		06:43	07:10-08:09/59	07:15	16:12-17:10/58	06:53		07:22	15:33-15:52/19
	20:33		19:58		19:07		18:16		16:39		16:31	
19	05:42	19:21-19:55/34	06:12		06:44	07:10-08:09/59	07:16	16:11-17:10/59	06:54		07:23	15:33-15:53/20
	20:32		19:56		19:05		18:15		16:38		16:32	
20	05:42	19:22-19:54/32	06:13		06:45	07:09-08:08/59	07:18	16:11-17:09/58	06:55	15:31-15:34/3	07:24	15:33-15:53/20
	20:31		19:55		19:03		18:13		16:37		16:32	
21	05:43	19:23-19:53/30	06:14		06:46	07:09-08:08/59	07:19	16:12-17:09/57	06:56	15:28-15:38/10	07:24	15:34-15:54/20
	20:30		19:53		19:01		18:12		16:36		16:33	
22	05:44	19:24-19:53/29	06:15		06:47	07:09-08:07/58	07:20	16:12-17:09/57	06:57	15:27-15:40/13	07:25	15:34-15:54/20
	20:30		19:52		19:00		18:10		16:36		16:33	
23	05:45	19:26-19:51/25	06:16		06:48	07:09-08:07/58	07:21	16:12-17:08/56	06:58	15:26-15:41/15	07:25	15:35-15:55/20
	20:29		19:50		18:58		18:09		16:35		16:34	
24	05:46	19:27-19:50/23	06:17		06:49	07:09-08:06/57	07:22	16:12-17:07/55	07:00	15:25-15:42/17	07:26	15:35-15:55/20
	20:28		19:49		18:56		18:07		16:34		16:34	
25	05:47	19:29-19:48/19	06:18		06:50	07:11-08:06/55	06:23	15:13-16:07/54	07:01	15:25-15:43/18	07:26	15:36-15:56/20
	20:27		19:47		18:54		17:06		16:34		16:35	
26	05:48	19:31-19:45/14	06:19		06:51	07:12-08:05/53	06:25	15:13-16:06/53	07:02	15:25-15:44/19	07:26	15:37-15:56/19
	20:26		19:45		18:53		17:04		16:33		16:35	
27	05:49	19:35-19:41/6	06:20		06:52	07:13-08:04/51	06:26	15:13-16:05/52	07:03	15:24-15:45/21	07:27	15:37-15:57/20
	20:25		19:44		18:51		17:03		16:33		16:36	
28	05:50		06:21		06:53	07:14-08:03/49	06:27	15:14-16:04/50	07:04	15:24-15:45/21	07:27	15:37-15:57/20
	20:24		19:42		18:49		17:02		16:32		16:37	
29	05:51		06:22		06:54	16:43-16:55/12	06:28	15:15-16:04/49	07:05	15:24-15:45/21	07:27	15:38-15:59/21
	20:23		19:41		18:48	07:15-08:02/47	17:00		16:32		16:37	
30	05:52		06:23		06:55	16:37-16:59/22	06:29	15:16-16:02/46	07:06	15:24-15:46/22	07:28	15:38-15:59/21
	20:22		19:39		18:46	07:16-08:01/45	16:59		16:32		16:38	
31	05:53		06:24	07:43-07:49/6			06:31	15:17-16:01/44			07:28	15:38-16:00/22
	20:21		19:37				16:58				16:39	
Potential sun hours	461		429		375		344		296		285	
Sum of minutes with flicker		971	6		1512		1813		392		647	

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: MT 05 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	19:07-19:51/44 20:39	05:29 20:20	19:08-20:01/53 19:36	06:25 18:44	06:57 18:44	06:32 16:56	07:08 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	19:06-19:51/45 20:39	05:30 20:19	19:09-20:01/52 19:34	06:26 18:42	06:58 18:42	06:33 16:55	07:09 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	19:06-19:52/46 20:39	05:30 20:39	19:09-20:01/52 20:18	06:28 18:41	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:32 17:54	06:40 19:28	05:55 20:01	05:27 20:31	19:05-19:52/47 20:39	05:31 20:39	19:10-20:01/51 20:16	06:29 18:39	07:00 18:39	06:35 16:53	07:11 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	19:05-19:53/48 20:39	05:31 20:39	19:10-20:00/50 20:15	06:30 18:29	07:01 18:37	06:37 16:51	07:12 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	19:05-19:54/49 20:38	05:32 20:38	19:11-20:00/49 20:14	06:31 18:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	19:05-19:55/50 20:38	05:32 20:38	19:11-20:00/49 20:13	06:32 18:26	07:03 18:34	06:39 16:49	07:14 16:30
8	07:28 16:47	07:07 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	19:04-19:55/51 20:38	05:33 20:38	19:12-20:00/48 20:12	06:33 18:24	07:04 18:32	06:40 16:48	07:15 16:30
9	07:28 16:48	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	19:04-19:55/51 20:37	05:34 20:37	19:13-20:00/47 20:10	06:34 18:22	07:05 18:31	06:42 16:47	07:15 16:30
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11	07:28 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	19:04-19:57/53 20:37	05:35 20:37	19:14-19:58/44 20:08	06:36 18:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36	19:04-19:57/53 20:36	05:36 20:36	19:15-19:58/43 20:06	06:37 18:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	19:04-19:58/54 20:36	05:37 20:36	19:16-19:58/42 20:05	06:38 18:15	07:10 18:24	06:46 16:43	07:19 16:30
14	07:27 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	19:04-19:58/54 20:35	05:37 20:35	19:16-19:58/40 20:03	06:39 18:14	07:11 18:23	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	19:04-19:58/54 20:35	05:38 20:35	19:17-19:56/39 20:02	06:40 18:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	19:04-19:59/55 20:34	05:39 20:34	19:19-19:55/36 20:09	06:41 18:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:09	06:19 19:43	05:40 20:15	05:25 20:38	19:04-19:59/55 20:33	05:40 20:33	19:20-19:54/34 19:59	06:42 18:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:54 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	19:04-19:59/55 20:33	05:41 20:33	19:21-19:52/31 19:58	06:43 18:07	07:15 18:16	06:53 16:39	07:22 16:31
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:25 20:38	19:04-19:59/55 20:32	05:42 20:32	19:23-19:51/28 19:56	06:44 18:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:39	19:04-19:59/55 20:31	05:42 20:31	19:25-19:49/24 19:55	06:45 18:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	19:05-20:00/55 20:30	05:43 20:30	19:28-19:47/19 19:53	06:46 18:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:42	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	19:05-20:00/55 20:30	05:44 20:30	19:31-19:44/13 19:52	06:47 18:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	19:05-20:00/55 20:29	05:45 20:29	19:31-19:44/13 19:50	06:48 18:09	07:21 18:09	06:59 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39	19:05-20:00/55 20:28	05:46 20:28	19:31-19:44/13 19:49	06:49 18:06	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:40	19:06-20:01/55 20:27	05:47 20:27	19:31-19:44/13 19:47	06:50 18:04	07:23 18:06	07:01 16:35	07:26 16:35
26	07:19 17:07	06:42 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40	19:06-20:01/55 20:26	05:48 20:26	19:31-19:44/13 19:45	06:51 18:03	07:24 18:04	07:02 16:33	07:27 16:35
27	07:19 17:08	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	19:06-20:00/54 20:25	05:49 20:25	19:31-19:44/13 19:44	06:52 18:01	07:25 18:03	07:03 16:33	07:27 16:36
28	07:19 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	19:07-20:01/54 20:24	05:50 20:24	19:31-19:44/13 19:42	06:53 18:00	07:26 18:02	07:04 16:32	07:27 16:37
29	07:17 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40	19:08-19:48/40 20:23	05:51 20:23	19:31-19:44/13 19:41	06:54 18:00	07:27 18:00	07:05 16:32	07:27 16:37
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:29 20:40	19:07-19:48/41 20:22	05:52 20:22	19:31-19:44/13 19:39	06:55 18:00	07:28 18:00	07:06 16:32	07:28 16:38
31	07:15 17:14		06:47 19:24		05:29 20:28		19:07-19:50/43 20:21	05:53 20:21	19:31-19:44/13 19:37	06:56 18:00	07:29 18:00	07:07 16:33	07:28 16:39
Potential sun hours	296	296	369	400	450	455	461	429	375	344	294	296	285
Sum of minutes with flicker	0	286	0	0	329	1571	890	0	0	294	0	0	285

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: MT 06 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:28 16:40	07:14 15:46-16:18/32 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:40	05:54 20:20	06:25 19:36	06:57 18:44	06:32 15:14-15:53/39 16:56	07:08 16:31	
2	07:28 16:41	07:13 15:46-16:19/33 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:27 19:34	06:58 18:42	06:33 15:14-15:52/38 16:55	07:09 16:31	
3	07:28 16:42	07:12 15:45-16:20/35 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 15:13-15:52/39 16:54	07:10 16:31	
4	07:28 16:43	07:11 15:45-16:20/35 17:19	06:33 17:54	06:40 19:28	05:55 20:01	05:28 20:31	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 15:14-15:52/38 16:53	07:11 16:30	
5	07:28 16:44	07:10 15:45-16:21/36 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 15:14-15:52/38 16:51	07:12 16:30	
6	07:28 16:45	07:09 15:45-16:22/37 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:39	05:59 20:14	06:31 19:27	07:02 18:36	06:38 15:15-15:51/36 16:50	07:13 16:30	
7	07:28 16:46	07:08 15:45-16:23/38 17:23	06:28 17:57	06:35 19:32	05:51 20:05	05:26 20:33	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 15:16-15:51/35 16:49	07:14 16:30	
8	07:28 16:47	07:07 15:44-16:22/38 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:33 20:38	06:01 20:12	06:33 19:24	07:04 18:32	06:40 15:16-15:50/34 16:48	07:15 16:30	
9	07:28 16:48	07:05 15:44-16:23/39 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:38	06:02 20:10	06:34 19:22	07:05 18:31	06:42 15:17-15:49/32 16:47	07:15 16:30	
10	07:28 16:49	07:04 15:44-16:23/39 17:26	06:23 18:01	06:30 19:35	05:47 20:08	05:26 20:34	05:35 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 15:17-15:48/31 16:46	07:16 16:30	
11	07:28 16:50	07:03 15:45-16:23/38 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 15:19-15:48/29 16:45	07:17 16:30	
12	07:27 16:51	07:02 15:44-16:23/39 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:36	05:36 20:36	06:05 20:06	06:37 19:17	07:09 18:26	06:45 15:20-15:47/27 16:44	07:18 16:30	
13	07:27 16:52	07:00 15:45-16:23/38 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:47 15:21-15:45/24 16:43	07:19 16:30	
14	07:27 16:53	06:59 15:46-16:23/37 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:37	05:37 20:35	06:07 20:04	06:39 19:14	07:11 18:23	06:48 15:23-15:45/22 16:42	07:20 16:30	
15	07:26 16:54	06:58 15:45-16:22/37 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:38 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 15:25-15:43/18 16:41	07:20 16:31	
16	07:26 16:55	06:56 15:47-16:21/34 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 15:28-15:40/12 16:40	07:21 16:31	
17	07:25 16:56	06:55 15:48-16:21/33 17:35	06:11 18:09	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 15:34-15:35/1 16:39	07:22 16:31	
18	07:25 16:58	06:54 15:48-16:20/32 17:37	06:09 18:10	06:18 19:44	05:39 20:16	05:25 20:38	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:39	07:22 16:31	
19	07:24 16:59	06:52 15:50-16:19/29 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	16:28-16:42/14 16:38	07:23 16:32	
20	07:24 17:00	06:51 15:51-16:17/26 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	16:25-16:45/20 16:37	07:24 16:32	
21	07:23 17:01	06:49 15:53-16:16/23 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	16:23-16:47/24 16:36	07:24 16:33	
22	07:22 17:02	06:48 15:55-16:13/18 17:42	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:30	06:15 19:52	06:47 19:00	07:20 18:10	16:21-16:48/27 16:36	07:25 16:33	
23	07:22 17:04	06:46 15:59-16:10/11 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	16:19-16:49/30 16:35	07:25 16:34	
24	07:21 17:05	06:45 15:59-16:10/11 17:44	06:00 18:16	06:09 19:50	05:34 20:22	05:26 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	16:17-16:49/32 16:34	07:26 16:34	
25	07:20 17:06	06:43 16:00-16:02/2 17:45	06:00 18:17	06:08 19:52	05:33 20:23	05:27 20:40	05:47 20:27	06:18 19:47	06:50 18:55	07:23 17:06	15:17-15:51/34 16:34	07:26 16:35	
26	07:20 17:07	06:42 15:54-16:07/13 17:46	06:00 18:19	06:06 19:53	05:32 20:23	05:27 20:40	05:48 20:26	06:19 19:46	06:51 18:53	07:24 17:04	15:16-15:51/35 16:33	07:27 16:35	
27	07:19 17:09	06:41 15:52-16:10/18 17:48	06:00 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:49 20:25	06:20 19:44	06:52 18:51	07:25 17:03	15:15-15:51/36 16:33	07:27 16:36	
28	07:18 17:10	06:39 15:50-16:12/22 17:49	06:00 18:21	06:03 19:55	05:31 20:25	05:28 20:40	05:50 20:24	06:21 19:42	06:53 18:49	07:26 17:02	15:15-15:52/37 16:32	07:27 16:37	
29	07:17 17:11	06:38 15:49-16:14/25 17:50	06:00 19:22	06:01 19:56	05:30 20:26	05:28 20:40	05:51 20:23	06:22 19:41	06:54 18:48	07:27 17:00	15:14-15:52/38 16:32	07:28 16:37	
30	07:16 17:12	06:37 15:48-16:15/27 17:51	06:00 19:23	06:00 19:57	05:30 20:27	05:29 20:40	05:52 20:22	06:23 19:39	06:55 18:46	07:28 16:59	15:14-15:52/38 16:32	07:28 16:38	
31	07:15 17:14	06:36 15:47-16:16/29 17:52	06:00 19:24	06:00 19:58	05:30 20:28	05:29 20:40	05:53 20:21	06:24 19:37	06:56 16:58	07:29 16:58	15:13-15:52/39 16:32	07:28 16:39	
Potential sun hours		295	296	369	400	450	455	461	429	375	344	296	285
Sum of minutes with flicker		136	757	0	0	0	0	0	0	0	404	493	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: MT 07 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 14:31-15:42/71 17:15	06:37 14:43-15:37/54 17:50	06:45 19:25	05:59 19:58	05:29 20:28
2	07:28 16:41	07:13 14:31-15:43/72 17:16	06:36 14:45-15:36/51 17:51	06:44 19:26	05:57 19:59	05:28 20:29
3	07:28 16:42	07:12 14:31-15:44/73 17:17	06:34 14:46-15:34/48 17:52	06:42 19:27	05:56 20:00	05:28 20:30
4	07:28 16:43	07:11 14:31-15:44/73 17:19	06:32 14:49-15:33/44 17:54	06:40 19:03-19:07/4 19:28	05:55 20:01	05:27 20:31
5	07:28 16:44	07:10 14:31-15:45/74 17:20	06:31 14:51-15:31/40 17:55	06:39 18:59-19:08/9 19:30	05:53 20:02	05:27 20:31
6	07:28 14:53-15:05/12 16:45	07:09 14:31-15:45/74 17:21	06:29 14:54-15:28/34 17:56	06:37 18:57-19:09/12 19:31	05:52 20:03	05:27 20:32
7	07:28 14:51-15:08/17 16:45	07:08 14:31-15:46/75 17:23	06:28 14:58-15:25/27 17:57	06:35 18:55-19:10/15 19:32	05:51 20:05	05:26 20:33
8	07:28 14:48-15:10/22 16:46	07:07 14:30-15:46/76 17:24	06:26 15:02-15:21/19 17:58	06:34 18:54-19:11/17 19:33	05:50 20:06	05:26 20:33
9	07:28 14:47-15:13/26 16:48	07:05 14:30-15:46/76 17:25	06:24 17:59	06:32 18:53-19:12/19 19:34	05:48 20:07	05:26 20:34
10	07:28 14:46-15:15/29 16:49	07:04 14:30-15:47/77 17:26	06:23 18:01	06:30 18:52-19:13/21 19:35	05:47 20:08	05:26 20:34
11	07:28 14:45-15:17/32 16:50	07:03 14:31-15:47/76 17:28	06:21 18:02	06:29 18:51-19:14/23 19:36	05:46 20:09	05:26 20:35
12	07:27 14:44-15:19/35 16:51	07:02 14:30-15:46/76 17:29	06:19 18:03	06:27 18:51-19:15/24 19:37	05:45 20:10	05:25 20:36
13	07:27 14:43-15:21/38 16:52	07:00 14:31-15:47/76 17:30	06:18 18:04	06:25 18:51-19:16/25 19:38	05:44 20:11	05:25 20:36
14	07:27 14:42-15:22/40 16:53	06:59 14:31-15:47/76 17:32	06:16 18:05	06:24 18:51-19:16/25 19:39	05:43 20:12	05:25 20:36
15	07:26 14:41-15:24/43 16:54	06:58 14:31-15:46/75 17:33	06:14 18:06	06:22 18:51-19:15/24 19:41	05:42 20:13	05:25 20:37
16	07:26 14:40-15:25/45 16:55	06:56 14:32-15:47/75 17:34	06:13 18:07	06:21 18:51-19:14/23 19:42	05:41 20:14	05:25 20:37
17	07:25 14:40-15:27/47 16:56	06:55 14:32-15:47/75 17:35	06:11 18:09	06:19 18:52-19:13/21 19:43	05:40 20:15	05:25 20:38
18	07:25 14:39-15:28/49 16:58	06:54 14:32-15:46/74 17:37	06:09 18:10	06:17 18:52-19:11/19 19:44	05:39 20:16	05:25 20:38
19	07:24 14:38-15:30/52 16:59	06:52 14:33-15:46/73 17:38	06:08 18:11	06:16 18:54-19:10/16 19:45	05:38 20:17	05:25 20:38
20	07:24 14:37-15:31/54 17:00	06:51 14:33-15:45/72 17:39	06:06 18:12	06:14 18:55-19:07/12 19:46	05:37 20:18	05:26 20:39
21	07:23 14:36-15:32/56 17:01	06:49 14:34-15:45/71 17:40	06:04 18:13	06:13 19:00-19:04/4 19:47	05:36 20:19	05:26 20:39
22	07:22 14:36-15:33/57 17:02	06:48 14:35-15:44/69 17:42	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39
23	07:22 14:36-15:35/59 17:04	06:46 14:36-15:44/68 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39
24	07:21 14:35-15:36/61 17:05	06:45 14:37-15:43/66 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39
25	07:20 14:34-15:36/62 17:06	06:43 14:38-15:42/64 17:45	05:57 18:17	06:07 19:52	05:33 20:23	05:27 20:40
26	07:19 14:34-15:37/63 17:07	06:42 14:39-15:41/62 17:46	05:56 18:19	06:05 19:53	05:32 20:23	05:27 20:40
27	07:19 14:33-15:38/65 17:09	06:40 14:41-15:41/60 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40
28	07:18 14:33-15:39/66 17:10	06:39 14:42-15:39/57 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40
29	07:17 14:32-15:40/68 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 14:32-15:41/69 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:29 20:40
31	07:15 14:31-15:41/70 17:14		06:47 19:24		05:29 20:28	
	Potential sun hours 295	296	369	400	450	455
	Sum of minutes with flicker 1237	2006	317	313	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: MT 07 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (7)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:54 20:20	06:25 18:50-19:13/23 19:36	06:57 18:44	06:32 14:00-15:16/76 16:56	07:08 14:27-15:00/33 16:31
2	05:30 20:39	05:55 20:19	06:26 18:50-19:11/21 19:34	06:58 18:42	06:33 14:00-15:16/76 16:55	07:09 14:29-14:58/29 16:31
3	05:30 20:39	05:56 20:18	06:28 18:50-19:09/19 19:32	06:59 18:41	06:34 14:00-15:15/75 16:54	07:10 14:31-14:57/26 16:31
4	05:31 20:39	05:57 20:16	06:29 18:51-19:08/17 19:31	07:00 18:39	06:35 14:01-15:16/75 16:53	07:11 14:33-14:55/22 16:30
5	05:31 20:39	05:58 20:15	06:30 18:51-19:06/15 19:29	07:01 15:42-15:54/12 18:37	06:37 14:00-15:15/75 16:51	07:12 14:36-14:54/18 16:30
6	05:32 20:39	05:59 20:14	06:31 18:52-19:04/12 19:27	07:02 15:35-15:59/24 18:36	06:38 14:00-15:15/75 16:50	07:13 14:39-14:51/12 16:30
7	05:32 20:38	06:00 20:13	06:32 18:54-19:03/9 19:26	07:03 15:31-16:02/31 18:34	06:39 14:01-15:15/74 16:49	07:14 14:45-14:47/2 16:30
8	05:33 20:38	06:01 20:12	06:33 18:57-19:01/4 19:24	07:04 15:27-16:04/37 18:32	06:40 14:02-15:14/72 16:48	07:15 16:30
9	05:34 20:38	06:02 20:10	06:34 19:22	07:05 15:25-16:07/42 18:31	06:42 14:02-15:14/72 16:47	07:15 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 15:22-16:08/46 18:29	06:43 14:02-15:13/71 16:46	07:16 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 15:20-16:09/49 18:27	06:44 14:03-15:13/70 16:45	07:17 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 15:17-16:10/53 18:26	06:45 14:04-15:12/68 16:44	07:18 16:30
13	05:37 20:36	06:06 20:05	06:38 19:15	07:10 15:15-16:11/56 18:24	06:47 14:04-15:12/68 16:43	07:19 16:30
14	05:37 20:35	06:07 20:04	06:39 19:14	07:11 15:13-16:12/59 18:23	06:48 14:06-15:12/66 16:42	07:20 16:30
15	05:38 20:35	06:08 20:02	06:40 19:12	07:12 15:12-16:13/61 18:21	06:49 14:06-15:11/65 16:41	07:20 16:31
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 15:11-16:14/63 18:19	06:50 14:07-15:10/63 16:40	07:21 16:31
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 15:09-16:14/65 18:18	06:51 14:08-15:10/62 16:39	07:22 16:31
18	05:41 20:33	06:11 19:58	06:43 19:07	07:15 15:08-16:15/67 18:16	06:53 14:09-15:10/61 16:39	07:22 16:31
19	05:42 20:32	06:12 19:56	06:44 19:05	07:16 15:06-16:15/69 18:15	06:54 14:10-15:09/59 16:38	07:23 16:32
20	05:42 20:31	06:13 19:55	06:45 19:03	07:18 15:06-16:16/70 18:13	06:55 14:11-15:08/57 16:37	07:24 16:32
21	05:43 20:30	06:14 19:53	06:46 19:01	07:19 15:05-16:16/71 18:12	06:56 14:12-15:08/56 16:36	07:24 16:33
22	05:44 20:30	06:15 19:04-19:09/5 19:52	06:47 19:00	07:20 15:04-16:16/72 18:10	06:57 14:13-15:07/54 16:36	07:25 16:33
23	05:45 20:29	06:16 19:00-19:13/13 19:50	06:48 18:58	07:21 15:03-16:16/73 18:09	06:59 14:14-15:06/52 16:35	07:25 16:34
24	05:46 20:28	06:17 18:58-19:14/16 19:49	06:49 18:56	07:22 15:02-16:16/74 18:07	07:00 14:16-15:05/49 16:34	07:26 16:34
25	05:47 20:27	06:18 18:56-19:15/19 19:47	06:50 18:54	06:23 14:02-15:17/75 17:06	07:01 14:18-15:05/47 16:34	07:26 16:35
26	05:48 20:26	06:19 18:55-19:16/21 19:45	06:51 18:53	06:25 14:01-15:16/75 17:04	07:02 14:19-15:04/45 16:33	07:27 16:35
27	05:49 20:25	06:20 18:54-19:17/23 19:44	06:52 18:51	06:26 14:00-15:16/76 17:03	07:03 14:20-15:03/43 16:33	07:27 16:36
28	05:50 20:24	06:21 18:53-19:17/24 19:42	06:53 18:49	06:27 14:01-15:17/76 17:02	07:04 14:22-15:02/40 16:32	07:27 16:37
29	05:51 20:23	06:22 18:51-19:16/25 19:41	06:54 18:48	06:28 14:00-15:17/77 17:00	07:05 14:23-15:01/38 16:32	07:27 16:37
30	05:52 20:22	06:23 18:51-19:16/25 19:39	06:55 18:46	06:29 14:00-15:16/76 16:59	07:06 14:25-15:00/35 16:32	07:28 16:38
31	05:53 20:21	06:24 18:50-19:14/24 19:37	06:56 18:46	06:31 13:59-15:16/77 16:58	07:07 14:26-15:00/35 16:32	07:28 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	0	195	120	1626	1839	142

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: MT 08 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 15:29-16:12/43 17:15	06:37	06:45	05:58	05:29 06:02-06:06/4
2	07:28 16:41	07:13 15:29-16:13/44 17:16	06:36	06:44	05:57	05:28
3	07:28 16:42	07:12 15:29-16:13/44 17:17	06:34	06:42	05:56	05:28
4	07:28 16:43	07:11 15:29-16:14/45 17:19	06:32	06:40	05:55	05:27
5	07:28 16:44	07:10 15:29-16:14/45 17:20	06:31	06:39	05:53	05:27
6	07:28 16:44	07:09 15:29-16:15/46 17:21	06:29	06:37	05:52	05:27
7	07:28 16:45	07:08 15:29-16:15/46 17:23	06:28	06:35	05:51 06:11-06:13/2	05:26
8	07:28 16:46	07:06 15:29-16:14/45 17:24	06:26	06:34	05:50 06:10-06:14/4	05:26
9	07:28 16:47	07:05 15:29-16:15/46 17:25	06:24	06:32	05:48 06:09-06:15/6	05:26
10	07:28 16:49	07:04 15:30-16:15/45 17:26	06:23	06:30	05:47 06:07-06:15/8	05:26
11	07:27 16:50	07:03 15:30-16:15/45 17:28	06:21	06:29	05:46 06:06-06:15/9	05:26
12	07:27 16:51	07:02 15:30-16:14/44 17:29	06:19	06:27	05:45 06:05-06:15/10	05:25
13	07:27 16:52	07:00 15:31-16:14/43 17:30	06:18	06:25	05:44 06:04-06:16/12	05:25
14	07:27 16:53	06:59 15:32-16:13/41 17:32	06:16	06:24	05:43 06:03-06:16/13	05:25
15	07:26 16:54	06:58 15:32-16:12/40 17:33	06:14	06:22	05:42 06:02-06:16/14	05:25
16	07:26 16:55	06:56 15:34-16:12/38 17:34	06:13	06:21	05:41 06:01-06:16/15	05:25
17	07:25 15:45-15:50/5 16:56	06:55 15:34-16:10/36 17:35	06:11	06:19	05:40 06:01-06:16/15	05:25
18	07:25 15:40-15:54/14 16:58	06:54 15:36-16:09/33 17:37	06:09	06:17	05:39 06:00-06:16/16	05:25
19	07:24 15:38-15:56/18 16:59	06:52 15:38-16:08/30 17:38	06:08	06:16	05:38 05:59-06:16/17	05:25
20	07:24 15:37-15:59/22 17:00	06:51 15:39-16:06/27 17:39	06:06	06:14	05:37 05:58-06:15/17	05:26
21	07:23 15:35-16:01/26 17:01	06:49 15:42-16:04/22 17:40	06:04	06:13	05:36 05:57-06:15/18	05:26
22	07:22 15:34-16:02/28 17:02	06:48 15:45-16:01/16 17:41	06:02	06:11	05:35 05:56-06:14/18	05:26
23	07:22 15:34-16:04/30 17:04	06:46 15:51-15:55/4 17:43	06:01	06:10	05:35 05:56-06:15/19	05:26
24	07:21 15:33-16:05/32 17:05	06:45 17:44	05:59	06:08	05:34 05:55-06:14/19	05:26
25	07:20 15:32-16:06/34 17:06	06:43 17:45	05:57	06:07	05:33 05:54-06:13/19	05:27
26	07:19 15:31-16:07/36 17:07	06:42 17:46	05:56	06:05	05:32 05:54-06:13/19	05:27
27	07:19 15:31-16:08/37 17:09	06:40 17:48	05:54	06:04	05:32 05:54-06:12/18	05:27
28	07:18 15:30-16:09/39 17:10	06:39 17:49	05:52	06:03	05:31 05:56-06:12/16	05:28
29	07:17 15:30-16:10/40 17:11		06:50	06:01	05:30 05:56-06:11/15	05:28
30	07:16 15:29-16:11/42 17:12		06:49	06:00	05:30 05:58-06:10/12	05:29
31	07:15 15:29-16:12/43 17:14		06:47	19:24	05:29 05:59-06:08/9	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	446	868	0	0	340	4

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

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

SHADOW - Calendar per WTG

WTG: MT 08 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:54 06:16-06:26/10 20:20	06:25 19:36	06:56 18:44	06:32 14:59-15:44/45 16:56	07:07 16:31
2	05:30 20:39	05:55 06:17-06:25/8 20:19	06:26 19:34	06:58 18:42	06:33 14:59-15:44/45 16:55	07:09 16:31
3	05:30 20:39	05:56 06:18-06:25/7 20:18	06:27 19:32	06:59 18:41	06:34 14:58-15:44/46 16:54	07:10 16:31
4	05:31 20:39	05:57 06:19-06:24/5 20:16	06:29 19:31	07:00 18:39	06:35 14:59-15:45/46 16:53	07:11 16:30
5	05:31 20:39	05:58 06:20-06:23/3 20:15	06:30 19:29	07:01 18:37	06:37 14:59-15:44/45 16:51	07:12 16:30
6	05:32 20:38	05:59 06:21-06:22/1 20:14	06:31 19:27	07:02 18:36	06:38 14:59-15:44/45 16:50	07:13 16:30
7	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 14:58-15:44/46 16:49	07:14 16:30
8	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 14:59-15:44/45 16:48	07:14 16:30
9	05:34 20:37	06:02 20:10	06:34 19:22	07:05 18:31	06:42 14:59-15:44/45 16:47	07:15 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 15:00-15:43/43 16:46	07:16 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 15:01-15:43/42 16:45	07:17 16:30
12	05:36 06:08-06:16/8 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 15:01-15:43/42 16:44	07:18 16:30
13	05:37 06:07-06:18/11 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:46 15:02-15:42/40 16:43	07:19 16:30
14	05:37 06:05-06:18/13 20:35	06:07 20:03	06:39 19:14	07:11 18:22	06:48 15:03-15:42/39 16:42	07:20 16:30
15	05:38 06:05-06:20/15 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 15:04-15:41/37 16:41	07:20 16:30
16	05:39 06:04-06:21/17 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 15:04-15:40/36 16:40	07:21 16:31
17	05:40 06:03-06:22/19 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 15:06-15:40/34 16:39	07:22 16:31
18	05:41 06:04-06:23/19 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 15:07-15:39/32 16:38	07:22 16:31
19	05:41 06:04-06:23/19 20:32	06:12 19:56	06:44 19:05	07:16 16:19-16:29/10 18:15	06:54 15:08-15:38/30 16:38	07:23 16:32
20	05:42 06:05-06:24/19 20:31	06:13 19:55	06:45 19:03	07:18 16:14-16:32/18 18:13	06:55 15:09-15:37/28 16:37	07:24 16:32
21	05:43 06:06-06:24/18 20:30	06:14 19:53	06:46 19:01	07:19 16:12-16:36/24 18:12	06:56 15:11-15:37/26 16:36	07:24 16:33
22	05:44 06:07-06:25/18 20:29	06:15 19:52	06:47 19:00	07:20 16:09-16:37/28 18:10	06:57 15:13-15:35/22 16:36	07:25 16:33
23	05:45 06:08-06:26/18 20:29	06:16 19:50	06:48 18:58	07:21 16:07-16:38/31 18:09	06:58 15:15-15:33/18 16:35	07:25 16:34
24	05:46 06:09-06:26/17 20:28	06:17 19:49	06:49 18:56	07:22 16:05-16:39/34 18:07	07:00 15:17-15:31/14 16:34	07:26 16:34
25	05:47 06:10-06:27/17 20:27	06:18 19:47	06:50 18:54	06:23 15:05-15:41/36 17:06	07:01 15:23-15:28/5 16:34	07:26 16:35
26	05:48 06:11-06:27/16 20:26	06:19 19:45	06:51 18:53	06:25 15:03-15:42/39 17:04	07:02 16:33	07:26 16:35
27	05:49 06:11-06:26/15 20:25	06:20 19:44	06:52 18:51	06:26 15:02-15:42/40 17:03	07:03 16:33	07:27 16:36
28	05:50 06:12-06:26/14 20:24	06:21 19:42	06:53 18:49	06:27 15:01-15:42/41 17:02	07:04 16:32	07:27 16:37
29	05:51 06:13-06:26/13 20:23	06:22 19:41	06:54 18:48	06:28 15:01-15:43/42 17:00	07:05 16:32	07:27 16:37
30	05:52 06:14-06:26/12 20:22	06:23 19:39	06:55 18:46	06:29 15:00-15:44/44 16:59	07:06 16:31	07:28 16:38
31	05:53 06:15-06:26/11 20:21	06:24 19:37	 16:58	 16:58	06:31 14:59-15:44/45 16:31	07:28 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	309	34	0	432	896	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: MT 09 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 08:56-09:48/52 16:40	07:14 09:05-09:56/51 17:15	06:37 17:50	06:45 18:05-18:46/41 19:25	05:58 17:58	05:29 20:28
2	07:28 08:56-09:49/53 16:41	07:13 09:06-09:55/49 17:16	06:36 17:51	06:44 18:03-18:47/44 19:26	05:57 19:59	05:28 20:29
3	07:28 08:56-09:49/53 16:42	07:12 09:07-09:54/47 17:17	06:34 17:52	06:42 18:03-18:48/45 19:27	05:56 20:00	05:28 20:30
4	07:28 08:56-09:50/54 16:43	07:11 09:08-09:54/46 17:19	06:32 17:54	06:40 18:01-18:48/47 19:28	05:55 20:01	05:27 20:31
5	07:28 08:57-09:51/54 16:44	07:10 09:09-09:53/44 17:20	06:31 17:55	06:39 18:00-18:48/48 19:30	05:53 20:02	05:27 20:31
6	07:28 08:57-09:51/54 16:44	07:09 09:11-09:52/41 17:21	06:29 17:56	06:37 18:00-18:49/49 19:31	05:52 20:03	05:27 20:32
7	07:28 08:57-09:52/55 16:45	07:08 09:12-09:50/38 17:23	06:28 17:57	06:35 17:59-18:49/50 19:32	05:51 20:05	05:26 20:33
8	07:28 08:57-09:52/55 16:46	07:06 09:13-09:48/35 17:24	06:26 17:58	06:34 17:58-18:48/50 19:33	05:50 20:06	05:26 20:33
9	07:28 08:57-09:53/56 16:47	07:05 09:15-09:46/31 17:25	06:24 17:59	06:32 17:58-18:49/51 19:34	05:48 20:07	05:26 20:34
10	07:28 08:58-09:54/56 16:49	07:04 09:18-09:44/26 17:26	06:23 18:01	06:30 17:58-18:48/50 19:35	05:47 20:08	05:26 20:34
11	07:28 08:58-09:55/57 16:50	07:03 09:21-09:41/20 17:28	06:21 18:02	06:29 17:57-18:48/51 19:36	05:46 20:09	05:26 20:35
12	07:27 08:58-09:55/57 16:51	07:02 09:25-09:35/10 17:29	06:19 18:03	06:27 17:58-18:48/50 19:37	05:45 20:10	05:25 20:35
13	07:27 08:59-09:55/56 16:52	07:00 17:30	06:18 18:04	06:25 17:57-18:47/50 19:38	05:44 20:11	05:25 20:36
14	07:27 08:58-09:55/57 16:53	06:59 17:32	06:16 18:05	06:24 17:58-18:47/49 19:39	05:43 20:12	05:25 20:36
15	07:26 08:59-09:56/57 16:54	06:58 17:33	06:14 18:06	06:22 17:57-18:46/49 19:40	05:42 20:13	05:25 20:37
16	07:26 08:59-09:56/57 16:55	06:56 17:34	06:13 18:07	06:21 17:57-18:45/48 19:42	05:41 20:14	05:25 20:37
17	07:25 09:00-09:57/57 16:56	06:55 17:35	06:11 18:08	06:19 17:58-18:45/47 19:43	05:40 20:15	05:25 20:38
18	07:25 08:59-09:57/58 16:58	06:54 17:37	06:09 18:10	06:17 17:58-18:44/46 19:44	05:39 20:16	05:25 20:38
19	07:24 09:00-09:58/58 16:59	06:52 17:38	06:08 18:11	06:16 17:59-18:43/44 19:45	05:38 20:17	05:25 20:38
20	07:24 09:00-09:58/58 17:00	06:51 17:39	06:06 18:12	06:14 17:59-18:42/43 19:46	05:37 20:18	05:26 20:39
21	07:23 09:00-09:58/58 17:01	06:49 17:40	06:04 18:13	06:13 18:01-18:41/40 19:47	05:36 20:19	05:26 20:39
22	07:22 09:00-09:58/58 17:02	06:48 17:41	06:02 18:14	06:11 18:01-18:39/38 19:48	05:35 20:20	05:26 20:39
23	07:22 09:01-09:59/58 17:04	06:46 17:43	06:01 18:15	06:10 18:02-18:39/37 19:49	05:35 20:21	05:26 20:39
24	07:21 09:02-09:58/56 17:05	06:45 17:44	05:59 18:16	06:08 18:03-18:36/33 19:50	05:34 20:22	05:26 20:39
25	07:20 09:02-09:58/56 17:06	06:43 17:45	05:57 18:17	06:07 18:05-18:35/30 19:51	05:33 20:22	05:27 20:39
26	07:19 09:02-09:58/56 17:07	06:42 17:46	05:56 17:19-17:35/16 18:19	06:05 18:07-18:34/27 19:53	05:32 20:23	05:27 20:40
27	07:19 09:02-09:58/56 17:09	06:40 17:48	05:54 17:15-17:38/23 18:20	06:04 18:09-18:31/22 19:54	05:32 20:24	05:27 20:40
28	07:18 09:03-09:58/55 17:10	06:39 17:49	05:52 17:13-17:41/28 18:21	06:03 18:12-18:28/16 19:55	05:31 20:25	05:28 20:40
29	07:17 09:03-09:57/54 17:11		06:50 18:10-18:43/33 19:22	06:01 18:18-18:22/4 19:56	05:30 20:26	05:28 20:40
30	07:16 09:04-09:57/53 17:12		06:49 18:08-18:44/36 19:23	06:00 19:57	05:30 20:27	05:29 20:40
31	07:15 09:05-09:56/51 17:14		06:47 18:07-18:45/38 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	1725	438	174	1199	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: MT 09 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (9)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:54 20:20	06:25 17:56-18:47/51 19:36	06:56 18:44	06:32 08:47-09:14/27 16:56	07:07 08:40-09:37/57 16:31
2	05:30 20:39	05:55 20:19	06:26 17:56-18:46/50 19:34	06:58 18:42	06:33 08:45-09:16/31 16:55	07:09 08:41-09:37/56 16:31
3	05:30 20:39	05:56 20:18	06:27 17:55-18:46/51 19:32	06:59 18:41	06:34 08:43-09:18/35 16:54	07:10 08:41-09:37/56 16:31
4	05:31 20:39	05:57 20:16	06:29 17:55-18:45/50 19:31	07:00 18:39	06:35 08:42-09:20/38 16:53	07:11 08:42-09:37/55 16:30
5	05:31 20:39	05:58 20:15	06:30 17:55-18:45/50 19:29	07:01 18:37	06:37 08:40-09:22/42 16:51	07:12 08:42-09:37/55 16:30
6	05:32 20:38	05:59 20:14	06:31 17:55-18:44/49 19:27	07:02 18:36	06:38 08:39-09:23/44 16:50	07:13 08:43-09:38/55 16:30
7	05:32 20:38	06:00 20:13	06:32 17:55-18:43/48 19:26	07:03 18:34	06:39 08:39-09:25/46 16:49	07:14 08:44-09:38/54 16:30
8	05:33 20:38	06:01 20:12	06:33 17:55-18:42/47 19:24	07:04 18:32	06:40 08:38-09:25/47 16:48	07:14 08:44-09:38/54 16:30
9	05:34 20:37	06:02 20:10	06:34 17:56-18:41/45 19:22	07:05 18:31	06:42 08:37-09:26/49 16:47	07:15 08:45-09:38/53 16:30
10	05:34 20:37	06:03 20:09	06:35 17:56-18:40/44 19:21	07:06 18:29	06:43 08:36-09:27/51 16:46	07:16 08:45-09:38/53 16:30
11	05:35 20:37	06:04 20:08	06:36 17:57-18:38/41 19:19	07:07 18:27	06:44 08:37-09:28/51 16:45	07:17 08:46-09:38/52 16:30
12	05:36 20:36	06:05 20:06	06:37 17:58-18:37/39 19:17	07:08 18:26	06:45 08:36-09:29/53 16:44	07:18 08:46-09:39/53 16:30
13	05:37 20:36	06:06 20:05	06:38 17:59-18:35/36 19:15	07:10 18:24	06:46 08:35-09:29/54 16:43	07:19 08:47-09:39/52 16:30
14	05:37 20:35	06:07 18:23-18:32/9 20:03	06:39 18:00-18:33/33 19:14	07:11 18:22	06:48 08:36-09:30/54 16:42	07:20 08:48-09:40/52 16:30
15	05:38 20:34	06:08 18:19-18:36/17 20:02	06:40 18:01-18:31/30 19:12	07:12 18:21	06:49 08:35-09:31/56 16:41	07:20 08:48-09:39/51 16:30
16	05:39 20:34	06:09 18:16-18:39/23 20:01	06:41 18:04-18:28/24 19:10	07:13 18:19	06:50 08:35-09:31/56 16:40	07:21 08:49-09:40/51 16:31
17	05:40 20:33	06:10 18:13-18:41/28 19:59	06:42 18:07-18:24/17 19:08	07:14 18:18	06:51 08:36-09:32/56 16:39	07:22 08:50-09:41/51 16:31
18	05:41 20:33	06:11 18:11-18:42/31 19:58	06:43 19:07	07:15 18:16	06:53 08:36-09:32/56 16:38	07:22 08:50-09:40/50 16:31
19	05:41 20:32	06:12 18:10-18:43/33 19:56	06:44 19:05	07:16 18:15	06:54 08:35-09:33/58 16:38	07:23 08:50-09:41/51 16:32
20	05:42 20:31	06:13 18:08-18:44/36 19:55	06:45 19:03	07:18 18:13	06:55 08:35-09:33/58 16:37	07:24 08:50-09:41/51 16:32
21	05:43 20:30	06:14 18:06-18:45/39 19:53	06:46 19:01	07:19 18:12	06:56 08:36-09:34/58 16:36	07:24 08:51-09:42/51 16:33
22	05:44 20:30	06:15 18:05-18:46/41 19:52	06:47 19:00	07:20 18:10	06:57 08:36-09:34/58 16:36	07:25 08:51-09:42/51 16:33
23	05:45 20:29	06:16 18:04-18:47/43 19:50	06:48 18:58	07:21 18:09	06:58 08:36-09:34/58 16:35	07:25 08:52-09:43/51 16:34
24	05:46 20:28	06:17 18:03-18:47/44 19:49	06:49 18:56	07:22 18:07	07:00 08:36-09:34/58 16:34	07:26 08:52-09:43/51 16:34
25	05:47 20:27	06:18 18:02-18:48/46 19:47	06:50 18:54	06:23 17:06	07:01 08:38-09:35/57 16:34	07:26 08:53-09:44/51 16:35
26	05:48 20:26	06:19 18:01-18:48/47 19:45	06:51 18:53	06:25 17:04	07:02 08:38-09:35/57 16:33	07:26 08:54-09:45/51 16:35
27	05:49 20:25	06:20 18:00-18:48/48 19:44	06:52 18:51	06:26 17:03	07:03 08:38-09:35/57 16:33	07:27 08:54-09:45/51 16:36
28	05:50 20:24	06:21 17:59-18:48/49 19:42	06:53 18:49	06:27 17:02	07:04 08:38-09:35/57 16:32	07:27 08:54-09:45/51 16:37
29	05:51 20:23	06:22 17:58-18:47/49 19:41	06:54 18:48	06:28 17:00	07:05 08:39-09:35/56 16:32	07:27 08:55-09:47/52 16:37
30	05:52 20:22	06:23 17:57-18:47/50 19:39	06:55 18:46	06:29 08:53-09:06/13 16:59	07:06 08:39-09:36/57 16:31	07:28 08:55-09:47/52 16:38
31	05:53 20:21	06:24 17:56-18:47/51 19:37	06:56 18:46	06:31 08:49-09:10/21 16:58	07:07 16:30	07:28 08:55-09:47/52 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	0	684	705	34	1535	1626

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: MT 10 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 08:00-08:27/27 16:40	07:14 07:56-08:30/34 17:15	06:37 07:06-07:45/39 17:50	06:45 19:25	05:58 06:38-07:12/34 19:58	05:29 20:28
2	07:28 08:00-08:28/28 16:41	07:13 07:56-08:30/34 17:16	06:36 06:57-07:45/48 17:51	06:44 19:26	05:57 06:38-07:13/35 19:59	05:28 20:29
3	07:28 08:00-08:29/29 16:42	07:12 07:57-08:30/33 17:17	06:34 06:54-07:44/50 17:52	06:42 19:27	05:56 06:37-07:12/35 20:00	05:28 20:30
4	07:28 08:01-08:29/28 16:43	07:11 07:57-08:30/33 17:19	06:32 06:52-07:43/51 17:53	06:40 19:28	05:54 06:37-07:13/36 20:01	05:27 20:31
5	07:28 08:01-08:30/29 16:43	07:10 07:58-08:30/32 17:20	06:31 06:51-07:41/50 17:55	06:39 19:29	05:53 06:37-07:13/36 20:02	05:27 20:31
6	07:28 08:01-08:31/30 16:44	07:09 07:59-08:29/30 17:21	06:29 06:49-07:38/49 17:56	06:37 19:31	05:52 06:37-07:13/36 20:03	05:27 20:32
7	07:28 08:02-08:32/30 16:45	07:08 08:00-08:29/29 17:23	06:28 06:49-07:38/49 17:57	06:35 19:32	05:51 06:37-07:13/36 20:04	05:26 20:33
8	07:28 08:01-08:31/30 16:46	07:06 08:00-08:28/28 17:24	06:26 06:48-07:37/49 17:58	06:34 19:33	05:50 06:37-07:13/36 20:06	05:26 20:33
9	07:28 07:50-08:32/42 16:47	07:05 08:01-08:27/26 17:25	06:24 06:47-07:35/48 17:59	06:32 19:34	05:48 06:36-07:12/36 20:07	05:26 20:34
10	07:28 07:50-08:33/43 16:48	07:04 08:03-08:26/23 17:26	06:23 06:48-07:35/47 18:00	06:30 19:35	05:47 06:36-07:11/35 20:08	05:26 20:34
11	07:27 07:50-08:34/44 16:50	07:03 08:05-08:24/19 17:28	06:21 06:47-07:33/46 18:02	06:29 19:36	05:46 06:37-07:11/34 20:09	05:25 20:35
12	07:27 07:49-08:34/45 16:51	07:02 08:06-08:22/16 17:29	06:19 06:47-07:30/43 18:03	06:27 19:37	05:45 06:37-07:11/34 20:10	05:25 20:35
13	07:27 07:49-08:35/46 16:52	07:00 08:10-08:18/8 17:30	06:18 06:48-07:11/23 18:04	06:25 19:38	05:44 06:37-07:10/33 20:11	05:25 20:36
14	07:27 07:48-08:34/46 16:53	06:59 17:31	06:16 06:49-07:09/20 18:05	06:24 19:39	05:43 06:38-07:10/32 20:12	05:25 20:36
15	07:26 07:48-08:35/47 16:54	06:58 07:27-07:38/11 17:33	06:14 06:50-07:07/17 18:06	06:22 19:40	05:42 06:38-07:09/31 20:13	05:25 20:37
16	07:26 07:47-08:35/48 16:55	06:56 07:24-07:41/17 17:34	06:13 06:51-07:05/14 18:07	06:21 19:42	05:41 06:39-07:08/29 20:14	05:25 20:37
17	07:25 07:48-08:36/48 16:56	06:55 07:15-07:22/7 17:35	06:11 06:54-07:02/8 18:08	06:19 19:43	05:40 06:40-07:07/27 20:15	05:25 20:38
18	07:25 07:47-08:35/48 16:57	06:54 07:13-07:44/31 17:36	06:09 18:10	06:17 19:44	05:39 06:41-07:07/26 20:16	05:25 20:38
19	07:24 07:48-08:36/48 16:59	06:52 07:12-07:46/34 17:38	06:07 18:11	06:16 19:45	05:38 06:42-07:06/24 20:17	05:25 20:38
20	07:24 07:48-08:36/48 17:00	06:51 07:10-07:46/36 17:39	06:06 18:12	06:14 19:46	05:37 06:43-07:05/22 20:18	05:25 20:39
21	07:23 07:48-08:35/47 17:01	06:49 07:09-07:47/38 17:40	06:04 18:13	06:13 19:47	05:36 06:44-07:04/20 20:19	05:26 20:39
22	07:22 07:49-08:35/46 17:02	06:48 07:07-07:47/40 17:41	06:02 18:14	06:11 06:55-06:58/3 19:48	05:35 06:45-07:02/17 20:20	05:26 20:39
23	07:22 07:49-08:35/46 17:03	06:46 07:06-07:48/42 17:43	06:01 18:15	06:10 06:50-07:04/14 19:49	05:35 06:48-07:01/13 20:21	05:26 20:39
24	07:21 07:49-08:35/46 17:05	06:45 07:04-07:48/44 17:44	05:59 18:16	06:08 06:47-07:07/20 19:50	05:34 06:50-06:58/8 20:22	05:26 20:39
25	07:20 07:49-08:34/45 17:06	06:43 07:04-07:48/44 17:45	05:57 18:17	06:07 06:45-07:08/23 19:51	05:33 20:22	05:27 20:39
26	07:19 07:49-08:33/44 17:07	06:42 07:04-07:47/43 17:46	05:56 18:18	06:05 06:43-07:09/26 19:53	05:32 20:23	05:27 20:40
27	07:19 07:50-08:32/42 17:08	06:40 07:05-07:48/43 17:48	05:54 18:20	06:04 06:41-07:10/29 19:54	05:32 20:24	05:27 20:40
28	07:18 07:51-08:31/40 17:10	06:39 07:05-07:47/42 17:49	05:52 18:21	06:03 06:41-07:11/30 19:55	05:31 20:25	05:28 20:40
29	07:17 07:52-08:29/37 17:11		05:50 19:22	06:01 06:40-07:12/32 19:56	05:30 20:26	05:28 20:40
30	07:16 07:53-08:31/38 17:12		05:49 19:23	06:00 06:39-07:12/33 19:57	05:30 20:27	05:29 20:40
31	07:15 07:55-08:31/36 17:14		05:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	1268	837	672	210	705	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: MT 10 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:54 06:47-07:21/34 20:20	06:25 19:36	06:56 07:27-07:50/23 18:44 07:51-08:09/18	06:32 07:32-07:56/24 16:56	07:07 07:32-08:16/44 16:31
2	05:30 20:39	05:55 06:47-07:22/35 20:19	06:26 19:34	06:58 07:26-08:11/45 18:42	06:33 07:31-07:57/26 16:55	07:09 07:33-08:16/43 16:31
3	05:30 20:39	05:56 06:47-07:22/35 20:18	06:27 19:32	06:59 07:25-08:12/47 18:41	06:34 07:30-07:57/27 16:54	07:10 07:34-08:16/42 16:31
4	05:31 20:39	05:57 06:47-07:22/35 20:16	06:28 19:31	07:00 07:25-08:12/47 18:39	06:35 07:29-07:59/30 16:53	07:11 07:46-08:16/30 16:30 07:35-07:45/10
5	05:31 20:39	05:58 06:46-07:22/36 20:15	06:29 19:29	07:01 07:25-08:13/48 18:37	06:37 07:29-07:59/30 16:51	07:12 07:47-08:17/30 16:30 07:37-07:44/7
6	05:32 20:38	05:59 06:46-07:23/37 20:14	06:31 19:27	07:02 07:25-08:13/48 18:36	06:38 07:28-08:00/32 16:50	07:13 07:47-08:17/30 16:30
7	05:32 20:38	06:00 06:46-07:22/36 20:13	06:32 19:26	07:03 07:25-08:13/48 18:34	06:39 07:28-08:01/33 16:49	07:14 07:48-08:17/29 16:30
8	05:33 20:38	06:01 06:46-07:22/36 20:11	06:33 19:24	07:04 07:26-08:14/48 18:32	06:40 07:28-08:01/33 16:48	07:14 07:49-08:17/28 16:30
9	05:34 20:37	06:02 06:46-07:22/36 20:10	06:34 19:22	07:05 07:27-08:17/50 18:31	06:42 07:27-08:01/34 16:47	07:15 07:49-08:18/29 16:30
10	05:34 20:37	06:03 06:46-07:22/36 20:09	06:35 19:20	07:06 07:27-08:18/51 18:29	06:43 07:27-08:01/34 16:46	07:16 07:49-08:17/28 16:30
11	05:35 20:37	06:04 06:47-07:21/34 20:08	06:36 19:19	07:07 07:29-08:18/49 18:27	06:44 07:26-08:02/36 16:45	07:17 07:50-08:18/28 16:30
12	05:36 20:36	06:05 06:47-07:21/34 20:06	06:37 19:17	07:08 07:40-08:19/39 18:26 07:32-07:39/7	06:45 07:24-08:01/37 16:44	07:18 07:51-08:18/27 16:30
13	05:37 20:36	06:06 06:47-07:20/33 20:05	06:38 19:15	07:10 07:38-08:19/41 18:24	06:46 07:23-08:01/38 16:43	07:19 07:52-08:18/26 16:30
14	05:37 20:35	06:07 06:48-07:19/31 20:03	06:39 19:14	07:11 07:37-08:19/42 18:22	06:48 07:24-08:04/40 16:42	07:20 07:52-08:19/27 16:30
15	05:38 20:34	06:08 06:49-07:18/29 20:02	06:40 19:12	07:12 07:37-08:20/43 18:21	06:49 07:23-08:05/42 16:41	07:20 07:52-08:19/27 16:30
16	05:39 20:34	06:09 06:49-07:17/28 20:01	06:41 19:10	07:13 07:36-08:20/44 18:19	06:50 07:22-08:06/44 16:40	07:21 07:53-08:19/26 16:31
17	05:40 20:33	06:10 06:50-07:16/26 19:59	06:42 19:08	07:14 07:36-08:19/43 18:18	06:51 07:23-08:08/45 16:39	07:22 07:54-08:20/26 16:31
18	05:41 20:33	06:11 06:52-07:14/22 19:58	06:43 19:07	07:15 07:36-08:19/43 18:16	06:53 07:23-08:09/46 16:38	07:22 07:54-08:20/26 16:31 08:30-08:31/1
19	05:41 07:01-07:06/5 20:32	06:12 06:53-07:12/19 19:56	06:44 19:05	07:16 07:37-08:18/41 18:15	06:54 07:23-08:09/46 16:38	07:23 07:55-08:20/25 16:32 08:30-08:33/3
20	05:42 06:58-07:09/11 20:31	06:13 06:56-07:09/13 19:55	06:45 19:03	07:17 07:39-08:19/40 18:13	06:55 07:23-08:10/47 16:37	07:24 07:56-08:21/25 16:32 08:30-08:35/5
21	05:43 06:57-07:12/15 20:30	06:14 19:53	06:46 19:01	07:19 07:40-08:18/38 18:12	06:56 07:24-08:11/47 16:36	07:24 07:56-08:21/25 16:33 08:30-08:35/5
22	05:44 06:55-07:13/18 20:30	06:15 19:52	06:47 19:00	07:20 07:41-08:16/35 18:10	06:57 07:24-08:12/48 16:36	07:25 07:57-08:22/25 16:33 08:31-08:36/5
23	05:45 06:54-07:15/21 20:29	06:16 19:50	06:48 18:58	07:21 07:42-08:15/33 18:09	06:58 07:24-08:12/48 16:35	07:25 07:57-08:22/25 16:34 08:31-08:36/5
24	05:46 06:53-07:16/23 20:28	06:17 19:49	06:49 18:56	07:22 07:44-08:13/29 18:07	07:00 07:24-08:12/48 16:34	07:26 07:57-08:22/25 16:34 08:31-08:36/5
25	05:47 06:52-07:17/25 20:27	06:18 19:47	06:50 18:54	06:23 06:45-06:51/6 17:06 06:53-07:13/20	07:01 07:26-08:14/48 16:34	07:26 07:58-08:23/25 16:35 08:33-08:36/3
26	05:48 06:51-07:17/26 20:26	06:19 19:45	06:51 07:39-07:42/3 18:53	06:25 06:55-07:10/15 17:04	07:02 07:26-08:14/48 16:33	07:26 07:58-08:24/26 16:35
27	05:49 06:50-07:18/28 20:25	06:20 19:44	06:52 07:34-07:46/12 18:51	06:26 06:57-07:07/10 17:03	07:03 07:27-08:14/47 16:33	07:27 07:58-08:24/26 16:36
28	05:50 06:49-07:19/30 20:24	06:21 19:42	06:53 07:32-07:48/16 18:49	06:27 17:02	07:04 07:28-08:14/46 16:32	07:27 07:59-08:25/26 16:37
29	05:51 06:49-07:20/31 20:23	06:22 19:41	06:54 07:30-07:49/19 18:48	06:28 07:39-07:49/10 17:00	07:05 07:29-08:15/46 16:32	07:27 07:59-08:26/27 16:37
30	05:52 06:48-07:20/32 20:22	06:23 19:39	06:55 07:28-07:50/22 18:46 07:54-08:07/13	06:29 07:35-07:52/17 16:59	07:06 07:30-08:15/45 16:31	07:28 07:59-08:26/27 16:38
31	05:53 06:48-07:21/33 20:21	06:24 19:37		06:31 07:33-07:53/20 16:58		07:28 08:00-08:27/27 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	298	625	85	1138	1195	929

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: MT 11 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 09:14-11:05/11 16:40 14:52-15:35/43	07:14 10:24-10:41/17 17:15 14:54-15:56/62	06:37 15:51-16:56/65 17:50 19:25 07:14-08:03/49	06:45 17:18-18:11/53 19:25 07:14-08:03/49	05:58 06:57-08:02/65 19:58	05:29 19:14-19:36/22 20:28
2	07:28 09:14-11:06/112 16:41 14:52-15:36/44	07:13 14:53-15:55/62 17:16 09:49-10:07/18	06:36 15:52-16:57/65 17:51	06:44 17:18-18:09/51 19:26 07:11-08:04/53	05:57 06:58-08:01/63 19:59	05:28 19:15-19:36/21 20:29
3	07:28 09:15-11:06/111 16:42 14:52-15:37/45	07:12 14:54-15:55/61 17:17	06:34 15:51-16:58/67 17:52	06:42 17:19-18:09/50 19:27 07:10-08:06/56	05:56 06:57-08:00/63 20:00	05:28 19:16-19:36/20 20:30
4	07:28 09:16-11:07/110 16:43 14:52-15:38/46	07:11 14:54-15:55/61 17:19	06:32 15:51-16:59/68 17:54	06:40 17:20-18:07/47 19:28 07:08-08:06/58	05:55 06:58-07:59/61 20:01	05:27 19:16-19:35/19 20:31
5	07:28 09:16-11:07/111 16:43 14:52-15:39/47	07:10 14:55-15:55/60 17:20	06:31 15:51-16:59/68 17:55	06:39 17:20-18:06/46 19:30 07:07-08:07/60	05:53 06:59-07:58/59 20:02	05:27 19:17-19:34/17 20:31
6	07:28 09:17-11:07/110 16:04-16:11/7	07:09 14:56-15:55/59 17:21	06:29 15:50-16:59/69 17:56	06:37 17:22-18:05/43 19:31 07:06-08:08/62	05:52 19:20-19:28/8 20:04 07:00-07:58/58	05:27 19:18-19:34/16 20:32
7	07:28 09:18-11:07/109 16:03-16:13/10	07:08 14:57-15:55/58 17:23	06:28 15:51-17:03/72 17:57	06:35 17:23-18:03/40 19:32 07:04-08:08/64	05:51 19:17-19:31/14 20:05 07:01-07:57/56	05:26 19:18-19:33/15 20:33
8	07:28 09:18-11:06/108 16:02-16:14/12	07:07 14:58-15:55/57 17:24	06:28 15:50-17:06/76 17:58	06:34 17:24-18:01/37 19:33 07:03-08:09/66	05:50 19:14-19:32/18 20:06 07:02-07:56/54	05:26 19:19-19:33/14 20:33
9	07:28 09:18-11:07/109 16:02-16:16/14	07:05 14:58-15:54/56 17:25	06:24 15:50-17:07/77 17:59	06:32 17:27-17:59/32 19:34 07:03-08:10/67	05:48 19:13-19:33/20 20:07 07:02-07:54/52	05:26 19:20-19:32/12 20:34
10	07:28 09:19-11:07/108 16:01-16:17/16	07:04 14:59-15:54/55 17:26	06:23 15:51-17:10/79 18:01	06:30 17:29-17:56/27 19:35 07:01-08:09/68	05:47 19:12-19:34/22 20:08 07:03-07:53/50	05:26 19:22-19:32/10 20:35
11	07:28 09:20-11:07/107 16:01-16:19/18	07:03 15:00-15:53/53 17:28	06:21 15:51-17:11/80 18:02	06:29 17:31-17:53/22 19:36 07:00-08:09/69	05:46 19:11-19:35/24 20:09 07:04-07:52/48	05:25 19:23-19:31/8 20:35
12	07:27 09:20-11:07/107 16:01-16:19/18	07:02 15:00-15:52/52 17:29	06:19 15:51-17:12/81 18:03	06:27 17:36-17:49/13 19:37 07:00-08:10/70	05:45 19:11-19:36/25 20:10 07:05-07:50/45	05:25 19:24-19:31/7 20:36
13	07:27 09:21-11:07/106 16:01-16:21/20	07:00 15:02-15:51/49 17:30	06:18 15:52-17:13/81 18:04	06:25 06:59-08:10/71 19:38	05:44 19:10-19:37/27 20:11 07:06-07:49/43	05:25 19:26-19:29/3 20:36
14	07:27 09:22-11:06/104 16:00-16:21/21	06:59 15:03-15:51/48 17:32	06:16 15:52-17:14/82 18:05	06:24 06:59-08:10/71 19:39	05:43 19:10-19:37/27 20:12 07:07-07:48/41	05:25 19:25-19:31/7 20:37
15	07:26 09:23-11:06/103 16:00-16:22/22	06:58 15:04-15:49/45 17:33	06:14 15:53-17:14/81 18:06	06:22 06:58-08:10/72 19:41	05:42 19:09-19:37/28 20:13 07:09-07:46/37	05:25 19:25-19:31/7 20:37
16	07:26 09:23-11:06/103 16:00-16:22/22	06:56 15:06-15:48/42 17:34	06:13 15:53-17:15/82 18:07	06:21 06:57-08:09/72 19:42	05:41 19:09-19:37/28 20:14 07:10-07:44/34	05:25 19:25-19:31/7 20:37
17	07:25 09:24-11:06/102 16:00-16:24/24	06:55 15:09-15:47/38 17:35	06:11 15:55-17:16/81 18:09	06:19 06:57-08:10/73 19:43	05:40 19:09-19:38/29 20:15 07:12-07:42/30	05:25 19:25-19:31/7 20:38
18	07:25 09:25-11:05/100 16:00-16:24/24	06:54 15:10-15:44/34 17:37	06:09 15:55-17:16/81 18:10	06:17 06:56-08:09/73 19:44	05:39 19:10-19:39/29 20:16 07:15-07:41/26	05:25 19:25-19:31/7 20:38
19	07:24 09:26-11:05/99 16:01-16:25/24	06:52 15:13-15:42/29 17:38	06:08 15:56-17:16/80 18:11	06:16 06:56-08:09/73 19:45	05:38 19:09-19:39/30 20:17 07:17-07:39/22	05:25 19:25-19:31/7 20:38
20	07:24 09:27-11:04/97 16:01-16:25/24	06:51 15:15-15:39/24 17:39	06:06 15:58-17:16/78 18:12	06:14 06:55-08:08/73 19:46	05:37 19:09-19:38/29 20:18 07:20-07:36/16	05:25 19:25-19:31/7 20:39
21	07:23 09:27-11:03/96 16:00-16:25/25	06:49 15:20-15:35/15 17:40	06:04 16:00-17:16/76 18:13	06:13 06:56-08:08/72 19:47	05:36 19:09-19:38/29 20:19 07:25-07:30/5	05:26 19:25-19:31/7 20:39
22	07:22 09:29-11:03/94 16:00-16:25/25	06:48 15:56-16:47/51 17:41	06:02 16:01-17:16/75 18:14	06:11 06:55-08:07/72 19:48	05:35 19:09-19:38/29 20:20	05:26 19:25-19:31/7 20:39
23	07:22 09:30-11:02/92 16:02-16:26/24	06:46 15:56-16:48/52 17:43	06:01 16:02-17:15/73 18:15	06:10 06:55-08:07/72 19:49	05:35 19:10-19:39/29 20:21	05:26 19:25-19:31/7 20:39
24	07:21 09:31-11:00/89 16:02-16:26/24	06:45 15:54-16:48/54 17:44	05:59 16:04-17:16/72 18:16	06:08 06:56-08:07/71 19:50	05:34 19:10-19:38/28 20:22	05:26 19:25-19:31/7 20:40
25	07:20 09:32-10:59/87 16:02-16:26/24	06:43 15:54-16:51/57 17:45	05:57 16:04-17:15/71 18:17	06:07 06:55-08:06/71 19:52	05:33 19:10-19:38/28 20:23	05:27 19:25-19:31/7 20:40
26	07:20 09:33-10:57/84 16:03-16:26/23	06:42 15:53-16:52/59 17:46	05:56 16:05-17:15/70 18:19	06:05 06:56-08:06/70 19:53	05:32 19:11-19:38/27 20:23	05:27 19:25-19:31/7 20:40
27	07:19 09:34-10:55/81 16:03-16:26/23	06:40 15:53-16:54/61 17:48	05:54 16:07-17:15/68 18:20	06:04 06:55-08:05/70 19:54	05:32 19:11-19:37/26 20:24	05:27 19:25-19:31/7 20:40
28	07:18 09:37-10:53/76 16:04-16:25/21	06:39 15:52-16:55/63 17:49	05:52 16:09-17:14/65 18:21	06:03 06:56-08:04/68 19:55	05:31 19:11-19:37/26 20:25	05:28 19:25-19:31/7 20:40
29	07:17 09:39-10:52/73 16:05-16:25/20	06:38 15:52-16:55/63 17:50	05:50 17:11-18:13/62 19:22	06:01 06:57-08:04/67 19:56	05:30 19:12-19:37/25 20:26	05:28 19:30-19:31/1 20:40
30	07:16 09:41-10:49/68 16:07-16:25/18	06:37 15:52-16:55/63 17:51	05:49 17:13-18:12/59 19:23	06:00 06:56-08:02/66 19:57	05:30 19:12-19:36/24 20:27	05:29 19:28-19:33/5 20:40
31	07:15 10:19-10:46/27 09:43-10:15/32	06:36 15:52-16:55/63 17:52	05:47 17:17-18:12/55 19:24	05:29 19:13-19:36/23 20:28	05:29 19:13-19:36/23 20:28	05:29 19:28-19:33/5 20:40
	Potential sun hours 295	296	369	400	450	455
	Sum of minutes with flicker 5252	1846	2433	2480	1580	190

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: MT 11 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December	
1	05:29 19:27-19:35/8 20:40	05:54 19:22-19:46/24 20:20 07:15-08:01/46	06:25 17:30-17:52/22 19:36 07:00-08:09/69	06:57 16:31-17:52/81 18:44	06:32 14:28-15:23/55 16:56	07:08 09:02-10:49/107 15:43-16:01/18 16:31 14:34-15:27/53	
2	05:30 19:26-19:36/10 20:39	05:55 19:22-19:46/24 20:19 07:14-08:03/49	06:26 17:26-17:54/28 19:34 07:00-08:08/68	06:58 16:30-17:50/80 18:42	06:33 14:27-15:24/57 16:55	07:09 09:02-10:50/108 15:44-16:00/16 16:31 14:35-15:26/51	
3	05:30 19:26-19:37/11 20:39	05:56 19:23-19:45/22 20:18 07:13-08:04/51	06:27 17:24-17:56/32 19:32 07:00-08:07/67	06:59 16:29-17:48/79 18:41	06:34 14:26-15:24/58 16:54	07:10 09:02-10:51/109 15:46-16:00/14 16:31 14:36-15:26/50	
4	05:31 19:26-19:39/13 20:39	05:57 19:24-19:44/20 20:17 07:12-08:05/53	06:29 17:21-17:58/37 19:31 07:00-08:06/66	07:00 16:28-17:46/78 18:39	06:36 14:26-15:25/59 16:53	07:11 09:03-10:52/109 15:47-15:59/12 16:30 14:37-15:26/49	
5	05:31 19:25-19:39/14 20:39	05:58 19:26-19:42/16 20:15 07:11-08:06/55	06:30 17:19-17:59/40 19:29 07:00-08:04/64	07:01 16:27-17:43/76 18:37	06:37 14:26-15:25/59 16:51	07:12 09:03-10:52/109 15:48-15:58/10 16:30 14:38-15:26/48	
6	05:32 19:24-19:40/16 20:39	05:59 19:27-19:40/13 20:14 07:10-08:07/57	06:31 17:17-18:00/43 19:27 07:01-08:03/62	07:02 16:26-17:41/75 18:36	06:38 14:25-15:25/60 16:50	07:13 09:03-10:53/110 15:50-15:57/7 16:30 14:38-15:26/48	
7	05:32 19:23-19:40/17 20:38	06:00 19:31-19:36/5 20:13 07:09-08:08/59	06:32 17:16-18:01/45 19:26 07:02-08:02/60	07:03 16:26-17:37/71 18:34	06:39 14:25-15:26/61 16:49	07:14 09:03-10:54/111 15:53-15:55/2 16:30 14:39-15:26/47	
8	05:33 19:23-19:42/19 20:38	06:01 07:08-08:08/60 20:12	06:33 17:14-18:01/47 19:24 07:03-08:01/58	07:04 16:25-17:34/69 18:32	06:40 14:25-15:26/61 16:48	07:15 09:04-10:54/110 16:30 14:40-15:26/46	
9	05:34 19:23-19:43/20 20:38	06:02 07:08-08:09/61 20:10	06:34 17:13-18:02/49 19:22 07:03-07:59/56	07:05 16:26-17:34/68 18:31	06:42 14:24-15:26/62 15:43-15:50/7 16:47 09:19-09:38/19	07:16 09:04-10:55/111 16:30 14:41-15:26/45	
10	05:34 19:22-19:43/21 20:37	06:03 07:07-08:10/63 20:09	06:35 17:11-18:02/51 19:21 07:04-07:57/53	07:06 16:25-17:33/68 18:29	06:43 09:54-10:12/18 09:17-09:43/26 16:46 14:25-15:27/62 15:40-15:52/12	07:16 09:05-10:56/111 16:30 14:42-15:26/44	
11	05:35 19:22-19:44/22 20:37	06:04 07:06-08:10/64 20:08	06:36 17:10-18:03/53 19:19 07:06-07:55/49	07:07 16:25-17:32/67 18:27	06:44 09:50-10:17/27 09:14-09:46/32 16:45 14:25-15:27/62 15:39-15:55/16	07:17 09:04-10:56/112 16:30 14:42-15:25/43	
12	05:36 19:22-19:45/23 20:36	06:05 07:05-08:11/66 20:06	06:37 17:09-18:03/54 19:17 07:07-07:53/46	07:08 16:25-17:30/65 18:26	06:45 09:11-10:20/69 15:38-15:56/18 16:44 14:24-15:27/63	07:18 09:05-10:56/111 16:30 14:43-15:26/43	
13	05:37 19:21-19:44/23 20:36	06:06 07:05-08:11/66 20:05	06:38 17:04-18:03/59 19:15 07:09-07:51/42	07:10 16:25-17:29/64 18:24	06:47 09:09-10:23/74 15:37-15:57/20 16:43 14:24-15:26/62	07:19 09:05-10:57/112 16:30 14:44-15:26/42	
14	05:37 19:21-19:45/24 20:35	06:07 07:04-08:12/68 20:04	06:39 17:01-18:03/62 19:14 07:11-07:48/37	07:11 16:25-17:27/62 18:23	06:48 09:09-10:26/77 15:37-15:58/21 16:42 14:25-15:27/62	07:20 09:06-10:58/112 16:30 14:45-15:26/41	
15	05:38 19:21-19:46/25 20:35	06:08 07:04-08:12/68 20:02	06:40 16:58-18:03/65 19:12 07:14-07:44/30	07:12 16:26-17:26/60 18:21	06:49 09:07-10:28/81 15:36-15:59/23 16:41 14:25-15:27/62	07:20 09:05-10:58/113 16:30 14:45-15:26/41	
16	05:39 19:21-19:47/26 20:34	06:09 07:03-08:12/69 20:01	06:41 16:56-18:03/67 19:10 07:17-07:40/23	07:13 16:26-17:24/58 18:19	06:50 09:06-10:30/84 15:36-15:59/23 16:40 14:25-15:27/62	07:21 09:06-10:59/113 16:31 14:46-15:26/40	
17	05:40 19:21-19:47/26 20:33	06:10 07:03-08:13/70 19:59	06:42 16:54-18:03/69 19:08 07:24-07:33/9	07:14 16:26-17:22/56 18:18	06:51 09:06-10:33/87 15:36-16:00/24 16:39 14:26-15:27/61	07:22 09:07-10:59/112 16:31 14:47-15:27/40	
18	05:41 19:20-19:47/27 20:33	06:11 07:02-08:13/71 19:58	06:43 16:52-18:03/71 19:07	07:15 16:26-17:20/54 18:16	06:53 09:05-10:34/89 15:36-16:00/24 16:38 14:26-15:27/61	07:23 09:07-10:59/112 16:31 14:47-15:26/39	
19	05:41 19:20-19:47/27 20:32	06:12 07:02-08:13/71 19:56	06:44 16:50-18:02/72 19:05	07:16 16:26-17:19/53 18:15	06:54 09:04-10:36/92 15:36-16:00/24 16:38 14:26-15:27/61	07:23 09:08-11:00/112 16:32 14:48-15:27/39	
20	05:42 19:20-19:48/28 20:31	06:13 07:01-08:13/72 19:55	06:45 16:49-18:02/73 19:03	07:18 16:28-17:18/50 18:13	06:55 09:04-10:38/94 15:35-16:00/25 16:37 14:26-15:27/61	07:24 09:08-11:01/113 16:32 14:49-15:28/39	
21	05:43 19:20-19:48/28 20:30	06:14 07:01-08:13/72 19:53	06:46 16:47-18:01/74 19:01	07:19 15:49-16:07/18 18:12 16:28-17:17/49	06:56 09:03-10:39/96 15:36-16:01/25 16:36 14:27-15:27/60	07:24 09:08-11:01/113 16:33 14:49-15:28/39	
22	05:44 19:20-19:49/29 20:30	06:15 07:01-08:13/72 19:52	06:47 16:45-18:01/76 19:00	07:20 15:45-16:11/26 18:10 16:29-17:16/47	06:57 09:03-10:40/97 15:37-16:01/24 16:36 14:28-15:27/59	07:25 09:09-11:02/113 16:33 14:50-15:29/39	
23	05:45 19:20-19:49/29 20:29 07:32-07:44/12	06:16 07:00-08:13/73 19:50	06:48 16:42-18:00/78 18:58	07:21 15:42-16:13/31 18:09 16:30-17:14/44	06:59 09:02-10:41/99 15:37-16:01/24 16:35 14:28-15:27/59	07:25 09:09-11:02/113 16:34 14:50-15:29/39	
24	05:46 19:20-19:49/29 20:28 07:29-07:48/19	06:17 07:00-08:13/73 19:49	06:49 16:40-17:59/79 18:56	07:22 15:39-16:14/35 18:07 16:31-17:12/41	07:00 09:02-10:42/100 15:37-16:01/24 16:34 14:28-15:26/58	07:26 09:10-11:02/112 16:34 14:50-15:29/39	
25	05:47 19:19-19:48/29 20:27 07:26-07:51/25	06:18 07:00-08:13/73 19:47	06:50 16:38-17:58/80 18:54	07:23 14:38-15:17/39 17:06 15:33-16:11/38	07:01 09:02-10:44/102 15:38-16:02/24 16:34 14:30-15:27/57	07:26 09:11-11:03/112 16:35 14:51-15:30/39	
26	05:48 19:19-19:48/29 20:26 07:23-07:52/29	06:19 07:00-08:12/72 19:46	06:51 16:37-17:58/81 18:53	07:24 14:36-15:18/42 17:04 15:34-16:09/35	07:02 09:02-10:45/103 15:39-16:02/23 16:33 14:30-15:27/57	07:27 09:11-11:03/112 16:35 14:51-15:31/40	
27	05:49 19:19-19:48/29 20:25 07:22-07:54/32	06:20 07:00-08:12/72 19:44	06:52 16:36-17:57/81 18:51	07:25 14:34-15:19/45 17:03 15:36-16:07/31	07:03 09:02-10:45/103 15:39-16:01/22 16:33 14:31-15:27/56	07:27 09:11-11:03/112 16:36 14:51-15:31/40	
28	05:50 19:20-19:48/28 20:24 07:20-07:56/36	06:21 07:00-08:12/72 19:42	06:53 16:34-17:56/82 18:49	07:26 14:33-15:20/47 17:02 15:39-16:05/26	07:04 09:02-10:46/104 15:40-16:01/21 16:32 14:31-15:26/55	07:27 09:12-11:05/113 16:37 14:52-15:33/41	
29	05:51 19:20-19:48/28 20:23 07:19-07:57/38	06:22 07:00-08:11/71 19:41	06:54 16:33-17:55/82 18:48	07:28 14:31-15:21/50 17:00 15:42-16:01/19	07:05 09:01-10:47/106 15:41-16:01/20 16:32 14:32-15:26/54	07:28 09:13-11:05/112 16:37 14:52-15:33/41	
30	05:52 19:20-19:47/27 20:22 07:17-07:59/42	06:23 07:00-08:11/71 19:39	06:55 16:32-17:53/81 18:46	07:29 14:30-15:22/52 16:59 15:47-15:56/9	07:07 09:02-10:49/107 15:42-16:00/18 16:31 14:33-15:26/53	07:28 09:13-11:05/112 16:38 14:52-15:34/42	
31	05:53 19:21-19:47/26 20:21 07:16-08:00/44	06:24 17:34-17:48/14 19:37 07:00-08:10/70	06:56 16:32-17:53/81 18:46	07:30 14:29-15:22/53 16:58	07:08 09:02-10:49/107 15:42-16:00/18 16:31 14:33-15:26/53	07:29 09:13-11:05/112 16:39 14:52-15:34/42	
	Potential sun hours Sum of minutes with flicker	461 988	429 2168	375 2692	344 2111	296 4127	285 4861

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: MT 12 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28	07:14	06:37	06:45 07:15-07:34/19	05:58	05:29	05:29	05:53	06:25 07:10-07:30/20	06:56 07:35-08:01/26	06:32	07:07
2	16:40	17:15	17:50	19:25	19:58	20:28	20:39	20:20	19:36	18:44	16:56	16:31
3	07:28	07:13	06:36	06:44 07:13-07:34/21	05:57	05:28	05:29	05:54	06:26 07:09-07:30/21	06:57 07:35-07:59/24	06:33	07:08
4	16:41	17:16	17:51	19:26	19:59	20:29	20:39	20:19	19:34	18:42	16:55	16:31
5	07:28	07:12	06:34	06:42 07:13-07:35/22	05:56	05:28	05:30	05:55	06:27 07:08-07:31/23	06:59 07:36-07:58/22	06:34	07:10
6	16:42	17:17	17:52	19:27	20:00	20:30	20:39	20:18	19:32	18:41	16:54	16:30
7	07:28	07:11	06:32	06:40 07:12-07:35/23	05:54	05:27	05:30	05:56	06:28 07:07-07:31/24	07:00 07:37-07:56/19	06:35	07:11
8	16:42	17:19	17:53	19:28	20:01	20:31	20:39	20:16	19:31	18:39	16:53	16:30
9	07:28	07:10	06:31	06:38 07:11-07:35/24	05:53	05:27	05:31	05:57	06:29 07:06-07:31/25	07:01 07:38-07:54/16	06:37	07:12
10	16:43	17:20	17:55	19:29	20:02	20:31	20:39	20:15	19:29	18:37	16:51	16:30
11	07:28	07:09	06:29	06:37 07:11-07:35/24	05:52	05:27	05:32	05:59	06:30 07:06-07:31/25	07:02 07:41-07:50/9	06:38	07:13
12	16:44	17:21	17:56	19:31	20:03	20:32	20:38	20:14	19:27	18:36	16:50	16:30
13	07:28	07:08	06:28	06:35 07:10-07:35/25	05:51	05:26	05:32	06:00	06:31 07:06-07:30/24	07:03	06:39	07:14
14	16:45	17:22	17:57	19:32	20:04	20:33	20:38	20:13	19:26	18:34	16:49	16:30
15	07:28	07:06	06:26 07:03-07:16/13	06:33 07:10-07:34/24	05:49	05:26	05:33	06:01	06:33 07:06-07:29/23	07:04	06:40	07:14
16	16:46	17:24	17:58	19:33	20:06	20:33	20:38	20:11	19:24	18:32	16:48	16:30
17	07:28	07:05	06:24 07:00-07:18/18	06:32 07:11-07:34/23	05:48	05:26	05:34	06:02	06:34 07:06-07:29/23	07:05	06:41	07:15
18	16:47	17:25	17:59	19:34	20:07	20:34	20:37	20:10	19:22	18:31	16:47	16:30
19	07:28	07:04	06:23 06:59-07:20/21	06:30 07:11-07:32/21	05:47	05:26	05:34	06:03	06:35 07:06-07:27/21	07:06	06:43	07:16
20	16:48	17:26	18:00	19:35	20:08	20:34	20:37	20:09	19:20	18:29	16:46	16:30
21	07:27	07:03	06:21 06:57-07:20/23	06:29 07:11-07:31/20	05:46	05:25	05:35	06:04	06:36 07:07-07:26/19	07:07	06:44	07:17
22	16:49	17:28	18:02	19:36	20:09	20:35	20:37	20:08	19:19	18:27	16:45	16:30
23	07:27	07:02	06:19 06:55-07:21/26	06:27 07:13-07:30/17	05:45	05:25	05:36	06:05	06:37 07:08-07:24/16	07:08	06:45	07:18
24	16:51	17:29	18:03	19:37	20:10	20:35	20:36	20:06	19:17	18:26	16:44	16:30
25	07:27	07:00	06:18 06:55-07:22/27	06:25 07:14-07:27/13	05:44	05:25	05:36	06:06	06:38 07:10-07:22/12	07:09	06:46	07:19
26	16:52	17:30	18:04	19:38	20:11	20:36	20:36	20:05	19:15	18:24	16:43	16:30
27	07:27	06:59	06:16 06:54-07:22/28	06:24 07:17-07:25/8	05:43	05:25	05:37	06:07	06:39	07:11	06:48	07:20
28	16:53	17:31	18:05	19:39	20:12	20:36	20:35	20:03	19:14	18:22	16:42	16:30
29	07:26	06:58	06:14 06:53-07:21/28	06:22	05:42	05:25	05:38	06:08	06:40	07:12	06:49	07:20
30	16:54	17:33	18:06	19:40	20:13	20:37	20:34	20:02	19:12	18:21	16:41	16:30
31	07:26	06:56	06:13 06:52-07:21/29	06:20	05:41	05:25	05:39	06:09	06:41	07:13	06:50	07:21
32	16:55	17:34	18:07	19:42	20:14	20:37	20:34	20:01	19:10	18:19	16:40	16:31
33	07:25	06:55	06:11 06:53-07:21/28	06:19	05:40	05:25	05:40	06:10	06:42	07:14	06:51	07:22
34	16:56	17:35	18:08	19:43	20:15	20:38	20:33	19:59	19:08	18:18	16:39	16:31
35	07:25	06:53	06:09 06:52-07:20/28	06:17	05:39	05:25	05:40	06:11	06:43 07:51-07:52/1	07:15	06:52	07:22
36	16:57	17:36	18:10	19:44	20:16	20:38	20:33	19:58	19:07	18:16	16:38	16:31
37	07:24	06:52	06:07 06:52-07:19/27	06:16	05:38	05:25	05:41	06:12	06:44 07:45-07:57/12	07:16	06:54	07:23
38	16:59	17:38	18:11	19:45	20:17	20:38	20:32	19:56	19:05	18:15	16:38	16:32
39	07:24	06:51	06:06 06:53-07:19/26	06:14	05:37	05:25	05:42	06:13	06:45 07:42-07:59/17	07:17	06:55	07:24
40	17:00	17:39	18:12	19:46	20:18	20:39	20:31	19:55	19:03	18:13	16:37	16:32
41	07:23	06:49	06:04 06:54-07:18/24	06:13	05:36	05:26	05:43	06:14	06:46 07:40-08:01/21	07:19	06:56	07:24
42	17:01	17:40	18:13	19:47	20:19	20:39	20:30	19:53	19:01	18:12	16:36	16:32
43	07:22	06:48	06:02 06:54-07:16/22	06:11	05:35	05:26	05:44	06:15	06:47 07:38-08:02/24	07:20	06:57	07:25
44	17:02	17:41	18:14	19:48	20:20	20:39	20:29	19:52	19:00	18:10	16:35	16:33
45	07:22	06:46	06:01 06:55-07:14/19	06:10	05:34	05:26	05:45	06:16	06:48 07:37-08:02/25	07:21	06:58	07:25
46	17:03	17:43	18:15	19:49	20:21	20:39	20:29	19:50	18:58	18:09	16:35	16:33
47	07:21	06:45	06:00 06:58-07:12/14	06:08	05:34	05:26	05:46	06:17	06:49 07:36-08:03/27	07:22	07:00	07:26
48	17:05	17:44	18:16	19:50	20:22	20:39	20:28	19:49	18:56	18:07	16:34	16:34
49	07:20	06:43	06:00 07:01-07:07/6	06:07	05:33	05:27	05:47	06:18	06:50 07:35-08:03/28	06:23	07:01	07:26
50	17:06	17:45	18:17	19:51	20:22	20:39	20:27	19:47	18:54	17:06	16:34	16:35
51	07:19	06:42	06:00 06:55-07:13/11	06:05	05:32	05:27	05:48	06:19	06:51 07:34-08:03/29	06:24	07:02	07:26
52	17:07	17:46	18:18	19:52	20:23	20:40	20:26	19:45	18:53	17:04	16:33	16:35
53	07:19	06:40	06:00 06:54-07:12/13	06:04	05:32	05:27	05:49	06:20	06:52 07:35-08:03/28	06:26	07:03	07:27
54	17:08	17:47	18:20	19:54	20:24	20:40	20:25	19:44	18:51	17:03	16:33	16:36
55	07:18	06:39	06:00 06:52-07:10/10	06:02	05:31	05:28	05:50	06:21	06:53 07:34-08:03/29	06:27	07:04	07:27
56	17:10	17:49	18:21	19:55	20:25	20:40	20:24	19:42	18:49	17:02	16:32	16:37
57	07:17		06:50	06:01	05:30	05:28	05:51	06:22 07:18-07:26/8	06:54 07:34-08:02/28	06:28	07:05	07:27
58	17:11		19:22	19:56	20:26	20:40	20:23	19:41	18:47	17:00	16:32	16:37
59	07:16		06:49 07:19-07:30/11	06:00	05:30	05:28	05:52	06:23 07:14-07:27/13	06:55 07:34-08:02/28	06:29	07:06	07:28
60	17:12		19:23	19:57	20:27	20:40	20:22	19:39	18:46	16:59	16:31	16:38
61	07:15		06:47 07:17-07:33/16		05:29		05:52	06:24 07:12-07:29/17		06:30		07:28
62	17:13		19:24		20:28		20:21	19:37		16:58		16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
Sum of minutes with flicker	0	0	434	284	0	0	0	38	573	116	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: MT 13 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 10:03-11:11/68 16:40	07:14 17:15	06:37 06:56-07:07/11 17:50 07:51-08:55/64	06:45 07:24-07:53/29 09:05-09:15/10 19:25 07:04-07:21/17	05:58 06:43-06:57/14 19:58	05:29 20:28
2	07:28 10:04-11:11/67 16:41	07:13 17:16	06:36 06:55-07:09/14 17:51 07:51-08:56/65	06:44 07:25-07:52/27 19:26 07:02-07:20/18	05:57 06:46-06:55/9 19:59	05:28 20:29
3	07:28 10:05-11:11/66 16:42	07:12 17:17	06:34 06:53-07:11/18 17:52 07:49-08:56/67	06:42 07:26-07:51/25 19:27 07:01-07:20/19	05:56 20:00	05:28 20:30
4	07:28 10:05-11:11/66 16:43	07:11 17:19	06:32 06:52-07:14/22 17:53 07:49-08:57/68	06:40 07:27-07:49/22 19:28 07:00-07:19/19	05:54 20:01	05:27 20:31
5	07:28 10:06-11:12/66 16:43	07:10 17:20	06:31 06:50-07:15/25 17:55 07:48-08:57/69	06:39 07:29-07:46/17 19:29 06:58-07:17/19	05:53 20:02	05:27 20:31
6	07:28 10:07-11:12/65 16:44	07:09 17:21	06:29 06:48-07:15/27 17:56 07:47-08:56/69	06:37 07:32-07:44/12 19:31 06:56-07:16/20	05:52 20:03	05:27 20:32
7	07:28 10:08-11:12/64 16:45	07:08 17:23	06:28 06:47-07:17/30 17:57 07:47-08:57/70	06:35 06:54-07:16/22 19:32	05:51 20:04	05:26 20:33
8	07:28 10:08-11:11/63 16:46	07:06 07:30-07:41/11 17:24	06:26 06:46-07:17/31 17:58 07:47-08:56/69	06:34 06:52-07:16/24 19:33	05:50 20:06	05:26 20:33
9	07:28 10:09-11:11/62 16:47	07:05 07:27-07:43/16 17:25	06:24 06:46-07:17/31 17:59 07:46-08:56/70	06:32 06:51-07:17/26 19:34	05:48 20:07	05:26 20:34
10	07:28 10:10-11:12/62 16:48	07:04 07:25-07:45/20 17:26	06:23 06:47-07:18/31 18:00 07:46-08:56/70	06:30 06:49-07:17/28 19:35	05:47 20:08	05:26 20:34
11	07:28 10:11-11:12/61 16:50	07:03 07:24-07:47/23 17:28	06:21 06:46-07:17/31 18:02 07:46-08:55/69	06:29 06:47-07:17/30 19:36	05:46 20:09	05:25 20:35
12	07:27 10:11-11:11/60 16:51	07:02 07:22-07:47/25 17:29	06:19 06:46-07:17/31 18:03 07:45-08:54/69	06:27 06:46-07:18/32 19:37	05:45 20:10	05:25 20:35
13	07:27 10:12-11:11/59 16:52	07:00 07:22-07:48/26 17:30	06:18 06:46-07:17/31 18:04 07:46-08:54/68	06:25 06:44-07:17/33 19:38	05:44 20:11	05:25 20:36
14	07:27 10:13-11:10/57 16:53	06:59 07:22-07:49/27 17:31	06:16 06:46-07:16/30 18:05 07:45-08:53/68	06:24 06:43-07:18/35 19:39	05:43 20:12	05:25 20:36
15	07:26 10:14-11:10/56 16:54	06:58 07:20-07:49/29 17:33	06:14 06:46-07:15/29 18:06 07:45-08:52/67	06:22 06:41-07:17/36 19:40	05:42 20:13	05:25 20:37
16	07:26 10:15-11:09/54 16:55	06:56 07:21-07:50/29 17:34 08:16-08:34/18	06:13 06:46-07:14/28 18:07 07:45-08:51/66	06:21 06:39-07:16/37 19:42	05:41 20:14	05:25 20:37
17	07:25 10:16-11:09/53 16:56	06:55 07:21-07:50/29 17:35 08:12-08:39/27	06:11 06:39-07:13/34 18:08 07:46-08:51/65	06:19 06:39-07:16/37 19:43	05:40 20:15	05:25 20:38
18	07:25 10:17-11:08/51 16:57	06:54 07:20-07:50/30 17:36 08:08-08:41/33	06:09 06:35-07:11/36 18:10 07:45-08:49/64	06:17 06:38-07:14/36 19:44	05:39 20:16	05:25 20:38
19	07:24 10:19-11:08/49 16:59	06:52 07:20-07:50/30 17:38 08:06-08:44/38	06:07 06:32-07:09/37 18:11 07:45-08:48/63	06:16 06:38-07:14/36 19:45	05:38 20:17	05:25 20:38
20	07:24 10:20-11:06/46 17:00	06:51 07:20-07:49/29 17:39 08:03-08:46/43	06:06 06:31-07:07/36 18:12 07:46-08:47/61	06:14 06:37-07:12/35 19:46	05:37 20:18	05:25 20:39
21	07:23 10:21-11:05/44 17:01	06:49 07:21-07:49/28 17:40 08:02-08:48/46	06:04 06:29-07:03/34 18:13 07:47-08:45/58	06:13 06:37-07:11/34 19:47	05:36 20:19	05:26 20:39
22	07:22 10:23-11:03/40 17:02	06:48 07:21-07:48/27 17:41 08:00-08:49/49	06:02 06:28-06:57/29 18:14 07:47-08:44/57	06:11 06:37-07:09/32 19:48	05:35 20:20	05:26 20:39
23	07:22 10:25-11:02/37 17:03	06:46 07:22-07:47/25 17:43 07:59-08:51/52	06:01 06:26-06:57/31 18:15 07:47-08:42/55	06:10 06:37-07:07/30 19:49	05:34 20:21	05:26 20:39
24	07:21 10:27-11:00/33 17:05	06:45 07:22-07:46/24 17:44 07:57-08:52/55	05:59 06:26-06:58/32 18:16 07:49-08:41/52	06:08 06:37-07:06/29 19:50	05:34 20:22	05:26 20:39
25	07:20 10:30-10:57/27 17:06	06:43 07:24-07:45/21 17:45 07:56-08:53/57	05:57 06:25-06:58/33 18:17 07:49-08:38/49	06:07 06:37-07:05/28 19:51	05:33 20:22	05:27 20:39
26	07:19 10:33-10:54/21 17:07	06:42 07:25-07:43/18 17:46 07:54-08:54/60	05:55 06:24-06:57/33 07:50-08:36/46 18:18 06:14-06:19/5	06:05 06:38-07:05/27 19:53	05:32 20:23	05:27 20:40
27	07:19 10:38-10:48/10 17:08	06:40 07:28-07:40/12 17:47 07:54-08:55/61	05:54 06:25-06:58/33 07:52-08:35/43 18:20 06:13-06:21/8	06:04 06:38-07:03/25 19:54	05:32 20:24	05:27 20:40
28	07:18 17:10	06:39 06:58-07:06/8 17:49 07:52-08:55/63	05:52 06:24-06:57/33 07:53-08:32/39 18:21 06:11-06:21/10	06:03 06:39-07:02/23 19:55	05:31 20:25	05:28 20:40
29	07:17 17:11		06:50 07:24-07:56/32 08:55-09:29/34 19:22 07:09-07:21/12	06:01 06:40-07:01/21 19:56	05:30 20:26	05:28 20:40
30	07:16 17:12		06:49 07:23-07:55/32 08:56-09:25/29 19:23 07:07-07:21/14	06:00 06:41-06:59/18 19:57	05:30 20:27	05:29 20:40
31	07:15 17:14		06:47 07:24-07:55/31 09:00-09:22/22 19:24 07:06-07:22/16		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	1407	1089	2806	968	23	0

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

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

SHADOW - Calendar per WTG

WTG: MT 13 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

N NNE ENE E ESE SSE S SSW WSW W WNW NNW Sum
981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

	July	August	September	October	November	December	
1	05:29 20:39	05:54 20:20	06:25 06:47-07:17/30 19:36	06:56 07:25-07:56/31 18:44 08:25-09:34/69	06:32 06:55-07:14/19 16:56	07:07 09:53-10:54/61 16:31	
2	05:29 20:39	05:55 20:19	06:26 06:48-07:15/27 19:34	06:58 07:25-07:56/31 18:42 08:24-09:34/70	06:33 06:57-07:12/15 16:55	07:09 09:53-10:55/62 16:31	
3	05:30 20:39	05:56 20:18	06:27 06:48-07:14/26 19:32	06:59 07:25-07:55/30 18:41 08:24-09:33/69	06:34 06:59-07:09/10 16:54	07:10 09:53-10:55/62 16:30	
4	05:31 20:39	05:57 20:16	06:28 06:49-07:13/24 19:31	07:00 07:24-07:55/31 18:39 08:24-09:33/69	06:35 16:53	07:11 09:53-10:56/63 16:30	
5	05:31 20:39	05:58 20:15	06:29 06:50-07:12/22 19:29	07:01 07:23-07:54/31 18:37 08:23-09:33/70	06:37 16:51	07:12 09:53-10:57/64 16:30	
6	05:32 20:38	05:59 20:14	06:31 07:27-07:38/11 19:27 06:51-07:11/20	07:02 07:23-07:53/30 18:36 08:23-09:32/69	06:38 16:50	07:13 09:53-10:58/65 16:30	
7	05:32 20:38	06:00 20:13	06:32 07:24-07:41/17 19:26 06:53-07:12/19	07:03 07:23-07:52/29 18:34 08:23-09:32/69	06:39 16:49	07:14 09:53-10:59/66 16:30	
8	05:33 20:38	06:01 20:11	06:33 07:21-07:43/22 19:24 06:54-07:13/19	07:04 07:25-07:50/25 18:32 08:23-09:31/68	06:40 16:48	07:14 09:53-10:59/66 16:30	
9	05:34 20:37	06:02 20:10	06:34 07:20-07:44/24 19:22 06:54-07:13/19	07:05 07:26-07:49/23 18:31 08:24-09:32/68	06:42 16:47	07:15 09:54-11:00/66 16:30	
10	05:34 20:37	06:03 20:09	06:35 07:18-07:45/27 19:20 06:55-07:14/19	07:06 07:27-07:47/20 18:29 08:24-09:31/67	06:43 16:46	07:16 09:53-11:00/67 16:30	
11	05:35 20:37	06:04 06:53-07:04/11 20:08	06:36 07:17-07:45/28 08:58-09:06/8 19:19 06:56-07:13/17	07:07 07:28-07:44/16 18:27 08:24-09:30/66	06:44 16:45	07:17 09:53-11:01/68 16:30	
12	05:36 20:36	06:05 06:51-07:07/16 20:06	06:37 07:16-07:46/30 08:52-09:12/20 19:17 06:57-07:13/16	07:08 07:29-07:42/13 18:26 08:24-09:29/65	06:45 16:44	07:18 09:54-11:01/67 16:30	
13	05:37 20:36	06:06 06:49-07:08/19 20:05	06:38 07:15-07:46/31 08:48-09:16/28 19:15 06:58-07:13/15	07:10 07:30-07:40/10 18:24 08:25-09:28/63	06:46 16:43	07:19 09:54-11:02/68 16:30	
14	05:37 20:35	06:07 06:48-07:09/21 20:03	06:39 07:14-07:46/32 08:45-09:18/33 19:14 06:59-07:12/13	07:11 07:31-07:37/6 08:25-09:27/62 18:22 08:02-08:10/8	06:48 16:42	07:20 09:55-11:03/68 16:30	
15	05:38 20:34	06:08 06:46-07:10/24 20:02	06:40 07:13-07:46/33 08:43-09:21/38 19:12 07:00-07:11/11	07:12 07:59-08:14/15 18:21 08:26-09:27/61	06:49 10:11-10:21/10 16:41	07:20 09:55-11:03/68 16:30	
16	05:39 20:34	06:09 06:45-07:11/26 20:01	06:41 07:13-07:46/33 08:41-09:22/41 19:10 07:01-07:09/8	07:13 07:57-08:16/19 18:19 08:27-09:26/59	06:50 10:06-10:27/21 16:40	07:21 09:55-11:04/69 16:31	
17	05:40 20:33	06:10 06:44-07:11/27 19:59	06:42 07:13-07:45/32 08:39-09:24/45 19:08 07:02-07:07/5	07:14 07:55-08:17/22 18:18 08:28-09:24/56	06:51 10:03-10:31/28 16:39	07:22 09:56-11:05/69 16:31	
18	05:41 20:33	06:11 06:44-07:12/28 19:58	06:43 07:12-07:45/33 08:37-09:25/48 19:07 07:03-07:04/1	07:15 07:53-08:18/25 18:16 08:29-09:23/54	06:53 10:01-10:34/33 16:38	07:22 09:56-11:05/69 16:31	
19	05:41 20:32	06:12 06:43-07:12/29 19:56	06:44 07:12-07:44/32 19:05 08:35-09:27/52	07:16 07:52-08:18/26 18:15 08:30-09:21/51	06:54 09:59-10:36/37 16:38	07:23 09:57-11:06/69 16:32	
20	05:42 20:31	06:13 06:43-07:13/30 19:55	06:45 07:13-07:43/30 19:03 08:34-09:28/54	07:17 07:52-08:20/28 18:13 08:32-09:20/48	06:55 09:58-10:38/40 16:37	07:24 09:57-11:05/68 16:32	
21	05:43 20:30	06:14 06:42-07:15/33 19:53	06:46 07:13-07:42/29 19:01 08:32-09:29/57	07:19 07:51-08:20/29 18:12 08:33-09:18/45	06:56 09:57-10:41/44 16:36	07:24 09:58-11:06/68 16:32	
22	05:44 20:30	06:15 06:42-07:16/34 19:52	06:47 07:13-07:46/33 19:00 08:31-09:30/59	07:20 07:51-08:20/29 18:10 08:34-09:16/42	06:57 09:56-10:42/46 16:35	07:25 09:58-11:06/68 16:33	
23	05:45 20:29	06:16 06:42-07:17/35 19:50	06:48 07:14-07:50/36 18:58 08:30-09:30/60	07:21 07:50-08:20/30 18:09 08:36-09:13/37	06:58 09:55-10:44/49 16:35	07:25 09:59-11:07/68 16:33	
24	05:46 20:28	06:17 06:42-07:18/36 19:49	06:49 07:15-07:52/37 18:56 08:29-09:31/62	07:22 07:50-08:19/29 18:07 08:38-09:10/32	07:00 09:54-10:45/51 16:34	07:26 09:59-11:07/68 16:34	
25	05:47 20:27	06:18 06:42-07:18/36 19:47	06:50 07:17-07:53/36 18:54 08:28-09:31/63	06:23 06:50-07:20/30 17:06 07:42-08:08/26	07:01 09:54-10:47/53 16:34	07:26 10:00-11:09/69 16:35	
26	05:48 20:26	06:19 06:42-07:19/37 19:45	06:51 07:20-07:55/35 18:53 08:27-09:32/65	06:25 06:50-07:19/29 17:04 07:47-08:03/16	07:02 09:54-10:48/54 16:33	07:26 10:00-11:09/69 16:35	
27	05:49 20:25	06:20 06:42-07:19/37 19:44	06:52 07:29-07:56/27 18:51 08:27-09:33/66	06:26 06:50-07:19/29 17:03	07:03 09:53-10:49/56 16:33	07:27 10:00-11:09/69 16:36	
28	05:50 20:24	06:21 06:43-07:19/36 19:42	06:53 07:28-07:56/28 18:49 08:27-09:33/66	06:27 06:51-07:19/28 17:02	07:04 09:53-10:50/57 16:32	07:27 10:01-11:09/68 16:37	
29	05:51 20:23	06:22 06:44-07:19/35 19:41	06:54 07:27-07:56/29 18:47 08:26-09:34/68	06:28 06:52-07:18/26 17:00	07:05 09:52-10:51/59 16:32	07:27 10:02-11:10/68 16:37	
30	05:52 20:22	06:23 06:45-07:18/33 19:39	06:55 07:26-07:56/30 18:46 08:25-09:34/69	06:29 06:52-07:16/24 16:59	07:06 09:52-10:52/60 16:31	07:28 10:02-11:10/68 16:38	
31	05:53 20:21	06:24 06:46-07:18/32 19:37		06:31 06:53-07:15/22 16:58		07:28 10:03-11:10/67 16:39	
	Potential sun hours	461	429	375	344	296	285
	Sum of minutes with flicker	0	615	2048	2245	742	2075

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

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

SHADOW - Calendar per WTG

WTG: MT 14 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 14:06-15:23/77 16:40 07:51-08:05/14	07:14 07:36-07:55/19 17:15 14:26-15:19/53	06:37 16:38-17:16/38 17:50 07:02-07:47/45	06:45 19:25	05:58 06:18-06:51/33 19:58	05:29 05:56-06:23/27 20:28
2	07:28 14:07-15:23/76 16:41 07:51-08:06/15	07:13 07:34-07:56/22 17:16 14:27-15:18/51	06:36 16:38-17:17/39 17:51 07:02-07:45/43	06:44 19:26	05:57 06:17-06:51/34 19:59	05:28 05:55-06:22/27 20:29
3	07:28 14:07-15:24/77 16:42 07:51-08:07/16	07:12 07:33-07:57/24 17:17 14:29-15:17/48	06:34 16:38-17:16/38 17:52 07:01-07:43/42	06:42 19:27	05:56 06:15-06:49/34 20:00	05:28 05:56-06:22/26 20:30
4	07:28 14:08-15:24/76 16:42 07:51-08:07/16	07:11 07:32-07:58/26 17:19 14:31-15:16/45	06:32 16:37-17:16/39 17:53 07:01-07:41/40	06:40 19:28	05:54 06:14-06:48/34 20:01	05:27 05:56-06:21/25 20:31
5	07:28 14:08-15:24/76 16:43 07:51-08:08/17	07:10 07:32-07:59/27 17:20 14:33-15:15/42	06:31 16:38-17:16/38 17:55 07:01-07:40/39	06:39 19:29	05:53 06:14-06:47/33 20:02	05:27 05:57-06:22/25 20:31
6	07:28 14:09-15:24/75 16:44 07:51-08:09/18	07:09 07:32-08:00/28 17:21 14:35-15:14/39	06:29 16:38-17:15/37 17:56 07:00-07:38/38	06:37 19:31	05:52 06:15-06:46/31 20:03	05:27 05:57-06:22/25 20:32
7	07:28 14:09-15:24/75 16:45 07:51-08:09/18	07:08 07:31-08:01/30 17:23 14:37-15:12/35	06:28 16:39-17:15/36 17:57 07:01-07:37/36	06:35 19:32	05:51 06:16-06:45/29 20:05	05:26 05:58-06:22/24 20:33
8	07:28 14:09-15:22/73 16:46 07:50-08:09/19	07:06 07:31-08:01/30 17:24 14:39-15:09/30	06:26 16:39-17:14/35 17:58 07:00-07:35/35	06:34 19:33	05:49 06:17-06:31/14 20:06	05:26 05:58-06:21/23 20:33
9	07:28 14:10-15:22/72 16:47 07:50-08:10/20	07:05 07:31-08:01/30 17:25 14:43-15:07/24	06:24 16:39-17:13/34 17:59 07:00-07:34/34	06:32 19:34	05:48 06:18-06:29/11 20:07	05:26 05:58-06:21/23 20:34
10	07:28 14:10-15:22/72 16:48 07:50-08:11/21	07:04 07:30-08:01/31 17:26 14:48-15:03/15	06:23 16:40-17:12/32 18:00 07:01-07:34/33	06:30 19:35	05:47 06:20-06:26/6 20:08	05:26 05:59-06:21/22 20:34
11	07:28 14:11-15:20/69 16:49 07:50-08:12/22	07:03 07:28-08:01/33 17:28	06:21 16:41-17:10/29 18:02 07:02-07:32/30	06:29 19:36	05:46 06:06-06:11/5 20:09	05:25 05:59-06:21/22 20:35
12	07:27 14:11-15:20/69 16:51 07:49-08:12/23	07:02 07:25-08:00/35 17:29	06:19 16:42-17:08/26 18:03 07:02-07:30/28	06:27 19:37	05:45 06:05-06:14/9 20:10	05:25 06:00-06:21/21 20:36
13	07:27 07:50-08:13/23 16:52 14:12-15:21/69	07:00 07:24-08:00/36 17:30	06:18 16:43-17:06/23 18:04 07:04-07:29/25	06:25 19:38	05:44 06:04-06:16/12 20:11	05:25 05:48-06:22/34 20:36
14	07:27 07:49-08:13/24 16:53 14:12-15:20/68	06:59 07:23-08:00/37 17:31	06:16 16:46-17:04/18 18:05 07:05-07:27/22	06:24 19:39	05:43 06:03-06:17/14 20:12	05:25 06:01-06:22/21 20:36
15	07:26 07:50-08:14/24 16:54 14:13-15:21/68	06:58 07:17-07:59/42 17:33	06:14 16:50-17:00/10 18:06 07:07-07:24/17	06:22 19:40	05:42 06:02-06:18/16 20:13	05:25 05:48-06:22/34 20:37
16	07:26 07:50-08:14/24 16:55 14:13-15:21/68	06:56 07:16-07:59/43 17:34	06:13 07:10-07:20/10 18:07	06:21 19:42	05:41 06:01-06:18/17 20:14	05:25 06:02-06:22/20 20:37
17	07:25 07:51-08:15/24 16:56 14:14-15:22/68	06:55 07:15-07:58/43 17:35	06:11 18:08	06:19 06:38-06:44/6 19:43	05:40 06:00-06:19/19 20:15	05:25 05:48-06:22/34 20:38
18	07:25 07:51-08:15/24 16:57 14:14-15:22/68	06:54 07:13-07:56/43 17:36	06:09 18:10	06:17 06:36-06:47/11 19:44	05:39 06:00-06:20/20 20:16	05:25 05:48-06:22/34 20:38
19	07:24 07:52-08:15/23 16:59 14:15-15:22/67	06:52 16:52-17:06/14 17:38 07:12-07:55/43	06:07 18:11	06:16 06:35-06:49/14 19:45	05:38 05:59-06:21/22 20:17	05:25 05:48-06:22/34 20:38
20	07:24 07:52-08:15/23 17:00 14:16-15:22/66	06:51 16:48-17:08/20 17:39 07:10-07:52/42	06:06 18:12	06:14 06:33-06:50/17 19:46	05:37 05:58-06:21/23 20:18	05:25 05:48-06:22/34 20:39
21	07:23 07:53-08:15/22 17:01 14:16-15:22/66	06:49 16:47-17:11/24 17:40 07:09-07:53/44	06:04 18:13	06:13 06:32-06:51/19 19:47	05:36 05:57-06:21/24 20:19	05:26 05:48-06:22/34 20:39
22	07:22 07:54-08:15/21 17:02 14:16-15:22/66	06:48 16:44-17:12/28 17:41 07:07-07:52/45	06:02 18:14	06:11 06:30-06:52/22 19:48	05:35 05:56-06:21/25 20:20	05:26 05:49-06:23/34 20:39
23	07:22 07:55-08:15/20 17:03 14:18-15:22/64	06:46 16:43-17:14/31 17:43 07:06-07:52/46	06:01 18:15	06:10 06:29-06:52/23 19:49	05:34 05:56-06:22/26 20:21	05:26 05:49-06:23/34 20:39
24	07:21 07:55-08:14/19 17:05 14:18-15:22/64	06:45 16:42-17:14/32 17:44 07:04-07:51/47	05:59 18:16	06:08 06:28-06:53/25 19:50	05:34 05:55-06:22/27 20:22	05:26 05:49-06:23/34 20:39
25	07:20 07:56-08:13/17 17:06 14:19-15:22/63	06:43 16:41-17:15/34 17:45 07:05-07:51/46	05:57 18:17	06:07 06:26-06:53/27 19:51	05:33 05:54-06:22/28 20:22	05:27 05:50-06:24/34 20:40
26	07:19 07:58-08:12/14 17:07 14:20-15:22/62	06:42 16:40-17:16/36 17:46 07:05-07:50/45	05:55 18:18	06:05 06:25-06:53/28 19:53	05:32 05:54-06:22/28 20:23	05:27 06:04-06:24/20 20:40
27	07:19 08:00-08:11/11 17:08 14:20-15:21/61	06:40 16:40-17:17/37 17:47 07:05-07:50/45	05:54 18:20	06:04 06:23-06:52/29 19:54	05:32 05:54-06:22/28 20:24	05:27 05:50-06:24/34 20:40
28	07:18 08:03-08:08/5 17:10 14:21-15:21/60	06:39 16:39-17:16/37 17:49 07:03-07:48/45	05:52 18:21	06:03 06:22-06:52/30 19:55	05:31 05:54-06:22/28 20:25	05:28 05:51-06:25/34 20:40
29	07:17 14:22-15:20/58 17:11		06:50 19:22	06:01 06:21-06:52/31 19:56	05:30 05:54-06:22/28 20:26	05:28 06:04-06:25/21 20:40
30	07:16 07:39-07:51/12 17:12 14:23-15:20/57		06:49 19:23	06:00 06:19-06:51/32 19:57	05:30 05:54-06:22/28 20:27	05:28 06:04-06:25/21 20:40
31	07:15 07:37-07:53/16 17:14 14:25-15:19/54		06:47 19:24		05:29 05:55-06:22/27 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	2669	1702	989	314	722	939

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: MT 14 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	06:04-06:25/21	05:54	06:16-06:24/8	06:25	06:56	17:22-17:47/25	06:32	07:01-07:31/30	07:08	13:53-15:03/70	
	20:39	05:52-06:02/10	20:20		19:36	18:44	07:42-08:10/28	16:56	14:17-14:33/16	16:31	07:32-07:54/22	
2	05:29	06:04-06:26/22	05:55	06:17-06:20/3	06:26	06:57	17:20-17:48/28	06:33	07:00-07:30/30	07:09	13:53-15:05/72	
	20:39	05:53-06:02/9	20:19		19:34	18:42	07:41-08:10/29	16:55	14:12-14:37/25	16:31	07:33-07:54/21	
3	05:30	06:04-06:26/22	05:56	06:30-06:38/8	06:27	06:59	17:18-17:49/31	06:34	07:00-07:30/30	07:10	13:54-15:06/72	
	20:39	05:53-06:01/8	20:18		19:32	18:41	07:39-08:11/32	16:54	14:09-14:39/30	16:30	07:34-07:54/20	
4	05:31	06:04-06:27/23	05:57	06:28-06:40/12	06:28	07:00	17:17-17:50/33	06:35	07:01-07:30/29	07:11	13:54-15:07/73	
	20:39	05:54-06:01/7	20:16	06:46-06:49/3	19:31	18:39	07:38-08:11/33	16:53	14:07-14:42/35	16:30	07:35-07:54/19	
5	05:31	06:03-06:27/24	05:58	06:26-06:53/27	06:29	07:01	17:16-17:50/34	06:37	07:02-07:30/28	07:12	13:54-15:09/75	
	20:39		20:15		19:29	18:37	07:37-08:11/34	16:51	14:04-14:44/40	16:30	07:36-07:54/18	
6	05:32	06:04-06:28/24	05:59	06:25-06:55/30	06:30	07:02	17:14-17:51/37	06:38	07:02-07:29/27	07:13	13:55-15:10/75	
	20:38		20:14		19:27	18:36	07:36-08:12/36	16:50	14:02-14:45/43	16:30	07:37-07:55/18	
7	05:32	06:03-06:28/25	06:00	06:24-06:56/32	06:32	07:03	17:14-17:51/37	06:39	07:03-07:29/26	07:14	13:55-15:11/76	
	20:38		20:13		19:26	18:34	07:36-08:13/37	16:49	14:00-14:46/46	16:30	07:38-07:55/17	
8	05:33	06:03-06:29/26	06:01	06:23-06:57/34	06:33	07:04	17:13-17:51/38	06:40	07:04-07:28/24	07:15	13:56-15:12/76	
	20:38		20:11		19:24	18:32	07:35-08:14/39	16:48	14:00-14:48/48	16:30	07:39-07:55/16	
9	05:34	06:04-06:29/25	06:02	06:24-06:58/34	06:34	07:05	17:13-17:51/38	06:42	07:05-07:26/21	07:15	13:56-15:13/77	
	20:37		20:10		19:22	18:31	07:36-08:15/39	16:47	13:58-14:49/51	16:30	07:40-07:56/16	
10	05:34	06:03-06:29/26	06:03	06:25-06:59/34	06:35	07:06	17:12-17:51/39	06:43	07:07-07:26/19	07:16	13:56-15:13/77	
	20:37		20:09		19:20	18:29	07:36-08:16/40	16:46	13:57-14:50/53	16:30	07:41-07:56/15	
11	05:35	06:03-06:30/27	06:04	06:26-06:59/33	06:36	07:07	17:12-17:51/39	06:44	07:08-07:24/16	07:17	13:56-15:13/77	
	20:37		20:08		19:19	18:27	07:35-08:18/43	16:45	13:56-14:51/55	16:30	07:41-07:55/14	
12	05:36	06:03-06:30/27	06:05	06:27-07:00/33	06:37	07:08	17:12-17:50/38	06:45	07:11-07:21/10	07:18	13:57-15:14/77	
	20:36		20:06		19:17	18:26	07:35-08:20/45	16:44	13:55-14:52/57	16:30	07:42-07:56/14	
13	05:37	06:04-06:31/27	06:06	06:28-07:00/32	06:38	07:10	17:11-17:50/39	06:46	13:54-14:52/58	07:19	13:58-15:15/77	
	20:36		20:05		19:15	18:24	07:36-08:21/45	16:43		16:30	07:43-07:56/13	
14	05:37	06:03-06:30/27	06:07	06:29-07:00/31	06:39	07:11	17:11-17:49/38	06:48	07:35-07:41/6	07:20	13:59-15:16/77	
	20:35		20:03		19:14	18:22	07:36-08:21/45	16:42	13:54-14:54/60	16:30	07:44-07:57/13	
15	05:38	06:03-06:31/28	06:08	06:30-07:00/30	06:40	07:12	17:11-17:48/37	06:49	07:32-07:44/12	07:20	13:58-15:16/78	
	20:35		20:02		19:12	18:21	07:37-08:23/46	16:41	13:53-14:54/61	16:30	07:44-07:56/12	
16	05:39	06:03-06:31/28	06:09	06:31-07:00/29	06:41	07:13	17:13-17:48/35	06:50	07:31-07:45/14	07:21	13:59-15:17/78	
	20:34		20:01		19:10	18:19	07:38-08:23/45	16:40	13:53-14:55/62	16:31	07:45-07:57/12	
17	05:40	06:04-06:32/28	06:10	06:32-07:00/28	06:42	07:14	17:13-17:47/34	06:51	07:30-07:47/17	07:22	14:00-15:18/78	
	20:33		19:59		19:08	18:18	07:37-08:23/46	16:39	13:53-14:56/63	16:31	07:46-07:58/12	
18	05:41	06:03-06:31/28	06:11	06:33-06:59/26	06:43	07:15	17:14-17:45/31	06:53	07:29-07:48/19	07:22	14:00-15:18/78	
	20:33		19:58		19:07	18:16	07:36-08:23/47	16:38	13:52-14:56/64	16:31	07:46-07:57/11	
19	05:41	06:04-06:31/27	06:12	06:34-06:59/25	06:44	07:16	17:14-17:44/30	06:54	07:29-07:49/20	07:23	14:01-15:19/78	
	20:32		19:56		19:05	18:15	07:37-08:23/46	16:38	13:52-14:56/64	16:32	07:47-07:58/11	
20	05:42	06:05-06:31/26	06:13	06:35-06:58/23	06:45	07:17	17:15-17:42/27	06:55	07:29-07:50/21	07:24	14:01-15:19/78	
	20:31		19:55		19:03	18:13	07:39-08:24/45	16:37	13:51-14:57/66	16:32	07:48-07:59/11	
21	05:43	06:06-06:32/26	06:14	06:36-06:57/21	06:46	07:19	17:18-17:41/23	06:56	07:29-07:51/22	07:24	14:02-15:20/78	
	20:30		19:53		19:01	18:12	07:40-08:23/43	16:36	13:52-14:58/66	16:32	07:48-07:59/11	
22	05:44	06:07-06:32/25	06:15	06:37-06:56/19	06:47	07:20	17:20-17:38/18	06:57	07:28-07:51/23	07:25	14:02-15:20/78	
	20:30		19:52		19:00	18:10	07:41-08:23/42	16:35	13:52-14:58/66	16:33	07:49-08:00/11	
23	05:45	06:08-06:32/24	06:16	06:38-06:55/17	06:48	07:21	17:23-17:34/11	06:59	07:28-07:51/23	07:25	14:03-15:21/78	
	20:29		19:50		18:58	18:09	07:42-08:25/43	16:35	13:51-14:58/67	16:33	07:49-08:00/11	
24	05:46	06:09-06:31/22	06:17	06:39-06:53/14	06:49	07:22	07:44-08:26/42	07:00	07:28-07:52/24	07:26	14:03-15:21/78	
	20:28		19:49		18:56	18:07		16:34	13:51-14:59/68	16:34	07:49-08:00/11	
25	05:47	06:10-06:31/21	06:18	06:40-06:51/11	06:50	06:23	06:45-07:28/43	07:01	07:29-07:53/24	07:26	14:04-15:22/78	
	20:27		19:47		18:54	17:06		16:34	13:52-15:00/68	16:35	07:50-08:01/11	
26	05:48	06:10-06:30/20	06:19	06:41-06:47/6	06:51	06:25	06:46-07:29/43	07:02	07:29-07:53/24	07:27	14:04-15:22/78	
	20:26		19:45		18:53	17:04		16:33	13:52-15:00/68	16:35	07:50-08:02/12	
27	05:49	06:11-06:29/18	06:20		06:52	07:03	06:47-06:49/2	07:03	07:29-07:53/24	07:27	14:04-15:22/78	
	20:25		19:44		18:51	17:03	06:50-07:29/39	16:33	13:52-15:00/68	16:36	07:50-08:02/12	
28	05:50	06:12-06:29/17	06:21		06:53	06:27	06:53-07:30/37	07:04	07:30-07:53/23	07:27	14:04-15:22/78	
	20:24		19:42		18:49	17:02		16:32	13:52-15:01/69	16:37	07:51-08:03/12	
29	05:51	06:13-06:28/15	06:22		06:54	06:28	06:54-07:30/36	07:05	07:30-07:53/23	07:27	14:05-15:23/78	
	20:23		19:41		18:47	17:00		16:32	13:52-15:01/69	16:37	07:51-08:04/13	
30	05:52	06:14-06:27/13	06:23		06:55	06:29	06:55-07:30/35	07:06	13:52-15:01/69	07:28	14:06-15:23/77	
	20:22		19:39		18:46	16:59		16:31	07:31-07:54/23	16:38	07:51-08:04/13	
31	05:53	06:15-06:26/11	06:24			06:31	06:57-07:30/33			07:28	14:06-15:23/77	
	20:21		19:37			16:58				16:39	07:51-08:05/14	
Potential sun hours	461		429		375	344		296		285		
Sum of minutes with flicker	757		603		107	1978		2307		2811		

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: MT 15 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 08:03-08:27/24 16:40	07:14 07:57-08:13/16 17:15	06:37 17:50	06:45 07:04-07:12/8 19:25	05:58 19:58	05:29 06:11-06:24/13 20:28
2	07:28 08:04-08:27/23 16:41	07:13 07:58-08:11/13 17:16	06:36 17:51	06:43 07:02-07:14/12 19:26	05:57 19:59	05:28 06:12-06:23/11 20:29
3	07:28 08:04-08:28/24 16:41	07:12 08:01-08:09/8 17:17	06:34 17:52	06:42 07:01-07:16/15 19:27	05:56 20:00	05:28 06:14-06:22/8 20:30
4	07:28 08:05-08:28/23 16:42	07:11 17:19	06:32 17:53	06:40 06:59-07:17/18 19:28	05:54 20:01	05:27 06:16-06:20/4 20:31
5	07:28 08:06-08:28/22 16:43	07:10 17:20	06:31 17:55	06:38 06:57-07:17/20 19:29	05:53 06:13-06:21/8 20:02	05:27 20:31
6	07:28 08:06-08:28/22 16:44	07:09 17:21	06:29 17:56	06:37 06:56-07:18/22 19:31	05:52 06:12-06:24/12 20:03	05:26 20:32
7	07:28 08:07-08:29/22 16:45	07:08 17:22	06:28 17:57	06:35 06:54-07:17/23 19:32	05:51 06:11-06:26/15 20:04	05:26 20:33
8	07:28 08:07-08:28/21 16:46	07:06 17:24	06:26 17:58	06:33 06:53-07:17/24 19:33	05:49 06:09-06:26/17 20:06	05:26 20:33
9	07:28 08:08-08:28/20 16:47	07:05 17:25	06:24 17:59	06:32 06:54-07:17/23 19:34	05:48 06:08-06:27/19 20:07	05:26 20:34
10	07:28 08:09-08:28/19 16:48	07:04 17:26	06:23 18:00	06:30 06:54-07:16/22 19:35	05:47 06:07-06:28/21 20:08	05:25 20:34
11	07:28 08:11-08:29/18 16:49	07:03 17:28	06:21 18:02	06:28 06:53-07:15/22 19:36	05:46 06:06-06:28/22 20:09	05:25 20:35
12	07:27 08:11-08:28/17 16:50	07:02 17:29	06:19 18:03	06:27 06:54-07:14/20 19:37	05:45 06:05-06:29/24 20:10	05:25 20:36
13	07:27 08:13-08:27/14 16:52	07:00 17:30	06:18 18:04	06:25 06:55-07:13/18 19:38	05:44 06:04-06:29/25 20:11	05:25 20:36
14	07:27 08:14-08:26/12 16:53	06:59 17:31	06:16 18:05	06:24 06:57-07:11/14 19:39	05:43 06:03-06:30/27 20:12	05:25 20:36
15	07:26 08:16-08:25/9 16:54	06:58 17:33	06:14 18:06	06:22 06:58-07:09/11 19:40	05:42 06:03-06:30/27 20:13	05:25 20:37
16	07:26 08:20-08:21/1 16:55	06:56 17:34	06:12 18:07	06:20 19:42	05:41 06:03-06:30/27 20:14	05:25 20:37
17	07:25 07:50-08:13/23 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 06:03-06:30/27 20:15	05:25 20:38
18	07:25 07:49-08:13/24 16:57	06:54 17:36	06:09 18:09	06:17 19:44	05:39 06:03-06:30/27 20:16	05:25 20:38
19	07:24 07:50-08:14/24 16:58	06:52 17:38	06:07 18:11	06:16 19:45	05:38 06:04-06:30/26 20:17	05:25 20:38
20	07:24 07:49-08:15/26 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 06:04-06:30/26 20:18	05:25 20:39
21	07:23 07:49-08:15/26 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 06:04-06:30/26 20:19	05:25 20:39
22	07:22 07:50-08:16/26 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 06:04-06:29/25 20:20	05:26 20:39
23	07:22 07:50-08:16/26 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 06:05-06:30/25 20:21	05:26 20:39
24	07:21 07:50-08:16/26 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 06:05-06:29/24 20:22	05:26 20:39
25	07:20 07:50-08:16/26 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 06:05-06:28/23 20:23	05:26 20:40
26	07:19 07:51-08:16/25 17:07	06:42 17:46	05:55 18:18	06:05 19:53	05:32 06:07-06:28/21 20:24	05:27 20:40
27	07:19 07:51-08:16/25 17:08	06:40 17:47	05:54 18:20	06:04 19:54	05:31 06:07-06:28/21 20:25	05:27 20:40
28	07:18 07:52-08:15/23 17:10	06:39 17:49	05:52 18:21	06:02 19:55	05:31 06:07-06:27/20 20:26	05:27 20:40
29	07:17 07:53-08:16/23 17:11	06:38 17:50	05:51 18:22	06:01 19:56	05:30 06:08-06:27/19 20:27	05:28 20:40
30	07:16 07:54-08:15/21 17:12	06:37 17:51	05:50 18:23	06:00 19:57	05:30 06:09-06:26/17 20:28	05:28 20:40
31	07:15 07:56-08:14/18 17:13	06:36 17:52	05:49 18:24	05:59 19:58	05:29 06:10-06:25/15 20:29	05:28 20:40
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	810	37	0	272	586	36

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: MT 15 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

N NNE ENE E ESE SSE S SSW WSW W WNW NNW Sum
981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

	July	August	September	October	November	December
1	05:29 20:39	05:53 06:16-06:39/23 20:20	06:25 06:52-07:14/22 19:36	06:56 18:44	06:32 16:56	07:08 07:53-08:11/18 16:31 07:33-07:49/16
2	05:29 20:39	05:54 06:17-06:39/22 20:19	06:26 06:51-07:14/23 19:34	06:57 18:42	06:33 16:55	07:09 07:53-08:11/18 16:31 07:34-07:49/15
3	05:30 20:39	05:55 06:18-06:38/20 20:18	06:27 06:51-07:14/23 19:32	06:59 18:41	06:34 16:54	07:10 07:52-08:12/20 16:30 07:36-07:48/12
4	05:30 20:39	05:56 06:19-06:37/18 20:16	06:28 06:50-07:14/24 19:31	07:00 18:39	06:35 16:52	07:11 07:52-08:13/21 16:30 07:37-07:47/10
5	05:31 20:39	05:57 06:20-06:36/16 20:15	06:29 06:50-07:13/23 19:29	07:01 18:37	06:37 16:51	07:12 07:52-08:14/22 16:30 07:40-07:45/5
6	05:32 20:39	05:58 06:21-06:35/14 20:14	06:30 06:51-07:13/22 19:27	07:02 18:35	06:38 16:50	07:13 07:52-08:15/23 16:30
7	05:32 20:38	05:59 06:22-06:33/11 20:13	06:31 06:52-07:12/20 19:26	07:03 18:34	06:39 16:49	07:14 07:53-08:15/22 16:30
8	05:33 20:38	06:00 06:24-06:29/5 20:11	06:32 06:53-07:11/18 19:24	07:04 18:32	06:40 07:31-07:40/9 16:48	07:15 07:53-08:16/23 16:30
9	05:33 06:22-06:29/7 20:37	06:01 20:10	06:33 06:54-07:09/15 19:22	07:05 18:30	06:42 07:28-07:42/14 16:47	07:15 07:53-08:17/24 16:30
10	05:34 06:20-06:30/10 20:37	06:03 20:09	06:35 06:55-07:07/12 19:20	07:06 18:29	06:43 07:28-07:44/16 16:46	07:16 07:54-08:17/23 16:30
11	05:35 06:20-06:32/12 20:37	06:04 20:08	06:36 06:56-07:05/9 19:19	07:07 18:27	06:44 07:26-07:45/19 16:45	07:17 07:53-08:17/24 16:30
12	05:36 06:19-06:33/14 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 07:25-07:46/21 16:44	07:18 07:54-08:18/24 16:30
13	05:36 06:17-06:33/16 20:36	06:06 20:05	06:38 19:15	07:09 18:24	06:46 07:24-07:47/23 16:43	07:19 07:54-08:18/24 16:30
14	05:37 06:17-06:35/18 20:35	06:07 20:03	06:39 19:14	07:11 18:22	06:48 07:25-07:48/23 16:42	07:20 07:55-08:19/24 16:30
15	05:38 06:17-06:36/19 20:35	06:08 20:02	06:40 19:12	07:12 18:21	06:49 07:24-07:49/25 16:41	07:20 07:54-08:19/25 16:30
16	05:39 06:16-06:37/21 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 07:24-07:49/25 16:40	07:21 07:55-08:20/25 16:30
17	05:40 06:16-06:38/22 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 07:24-07:50/26 16:39	07:22 07:56-08:21/25 16:31
18	05:40 06:15-06:37/22 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 07:24-07:50/26 16:38	07:22 07:56-08:20/24 16:31
19	05:41 06:15-06:38/23 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 07:24-07:50/26 16:37	07:23 07:57-08:21/24 16:31
20	05:42 06:15-06:39/24 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 07:25-07:51/26 16:37	07:24 07:57-08:22/25 16:32
21	05:43 06:14-06:39/25 20:30	06:14 19:53	06:46 19:01	07:19 18:11	06:56 07:25-07:51/26 16:36	07:24 07:57-08:22/25 16:32
22	05:44 06:14-06:40/26 20:30	06:15 19:52	06:47 19:00	07:20 18:10	06:57 07:25-07:51/26 16:35	07:25 07:58-08:23/25 16:33
23	05:45 06:14-06:40/26 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 07:26-07:50/24 16:35	07:25 07:58-08:23/25 16:33
24	05:46 06:13-06:40/27 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 07:26-07:50/24 16:34	07:26 07:59-08:23/24 16:34
25	05:47 06:13-06:40/27 20:27	06:18 19:47	06:50 18:54	07:23 17:06	07:01 07:28-07:51/23 16:34	07:26 08:00-08:24/24 16:34
26	05:48 06:13-06:40/27 20:26	06:19 19:45	06:51 18:53	07:24 17:04	07:02 07:28-07:50/22 16:33	07:27 08:00-08:25/25 16:35
27	05:49 06:13-06:40/27 20:25	06:20 19:44	06:52 18:51	07:25 17:03	07:03 07:56-08:04/8 16:32	07:27 08:00-08:25/25 16:36
28	05:49 06:14-06:40/26 20:24	06:21 06:59-07:10/11 19:42	06:53 18:49	07:26 17:01	07:04 07:54-08:06/12 16:32	07:27 08:01-08:26/25 16:36
29	05:50 06:14-06:40/26 20:23	06:22 06:56-07:12/16 19:41	06:54 18:47	07:27 17:00	07:05 07:53-08:07/14 16:32	07:27 08:02-08:26/24 16:37
30	05:51 06:14-06:40/26 20:22	06:23 06:55-07:13/18 19:39	06:55 18:46	07:28 16:59	07:06 07:53-08:10/17 16:31	07:28 08:02-08:26/24 16:38
31	05:52 06:15-06:40/25 20:21	06:24 06:53-07:13/20 19:37	06:56 18:45	07:29 16:57	07:07 07:53-08:10/17 16:30	07:28 08:02-08:27/25 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	496	194	211	0	554	787

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: MT 16 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 08:20-09:06/46 10:01-10:25/24 16:40 13:59-15:48/109 11:34-13:10/96	07:14 08:49-08:57/8 14:28-15:05/37 17:15 15:15-15:54/39 12:08-13:01/53	06:37 16:01-16:58/57 17:50	06:45 17:37-18:35/58 19:25	05:58 17:42-18:20/38 19:58	05:29 20:29
2	07:28 08:20-09:06/46 10:03-10:25/22 16:41 13:59-15:48/109 11:35-13:11/96	07:13 15:15-15:53/38 12:11-12:57/46 17:16 14:29-15:03/34	06:36 16:01-16:59/58 17:51	06:44 17:35-18:36/61 19:26	05:57 17:44-18:18/34 19:59	05:28 20:29
3	07:28 08:20-09:07/47 10:04-10:24/20 16:42 14:00-15:49/109 11:35-13:11/96	07:12 15:16-15:52/36 12:15-12:54/39 17:17 14:32-15:01/29	06:34 16:01-16:59/58 17:52	06:42 17:35-18:37/62 19:27	05:56 17:45-18:16/31 20:00	05:28 06:15-06:24/9 20:30
4	07:28 08:21-09:07/46 10:06-10:23/17 16:42 14:01-15:49/108 11:36-13:11/95	07:11 15:18-15:51/33 12:20-12:50/30 17:19 14:36-14:58/22	06:32 16:01-16:59/58 17:53	06:40 17:34-18:37/63 19:28	05:54 17:48-18:13/25 20:01	05:27 06:12-06:26/14 20:31
5	07:28 08:21-09:08/47 10:09-10:21/12 16:43 14:01-15:49/108 11:37-13:12/95	07:10 15:20-15:50/30 12:29-12:42/13 17:20 14:41-14:54/13	06:31 17:10-17:23/13 17:55 16:00-16:59/59	06:39 17:33-18:37/64 19:30	05:53 17:51-18:11/20 20:02	05:27 06:11-06:29/18 20:31
6	07:28 08:22-09:09/47 11:37-13:12/95 16:44 14:02-15:50/108	07:09 15:22-15:48/26 17:21	06:29 17:07-17:26/19 17:56 16:00-16:58/58	06:37 17:32-18:36/64 19:31	05:52 17:56-18:06/10 20:04	05:27 06:10-06:31/21 20:32
7	07:28 08:23-09:09/46 11:38-13:13/95 16:45 14:03-15:51/108	07:08 15:25-15:46/21 17:22	06:28 17:05-17:28/23 17:57 16:01-16:59/58	06:35 17:32-18:37/65 19:32	05:51 20:05 20:07	05:26 06:08-06:31/23 20:33
8	07:28 08:23-09:10/47 11:39-13:13/94 16:46 14:03-15:51/108	07:07 15:29-15:43/14 17:24	06:26 17:03-17:29/26 17:58 16:00-16:58/58	06:33 17:31-18:37/66 19:33	05:49 20:06 20:08	05:26 06:08-06:32/24 20:33
9	07:28 08:23-09:09/46 11:39-13:12/93 16:47 14:03-15:51/108	07:05 17:25 17:25	06:24 17:01-17:30/29 17:59 16:00-16:57/57	06:32 17:31-18:37/66 19:34	05:48 20:07 20:10	05:26 06:07-06:34/27 20:34
10	07:28 08:24-09:10/46 11:40-13:13/93 16:48 14:04-15:52/108	07:04 17:26 17:26	06:23 17:01-17:31/30 18:00 16:01-16:57/56	06:30 17:31-18:37/66 19:35	05:47 20:08 20:11	05:26 06:07-06:35/28 20:35
11	07:28 08:24-09:11/47 11:41-13:13/92 16:49 14:05-15:53/108	07:03 17:28 17:28	06:21 16:59-17:31/32 18:02 16:01-16:56/55	06:29 17:30-18:36/66 19:36	05:46 20:09 20:12	05:25 06:07-06:36/29 20:35
12	07:27 08:24-09:10/46 11:41-13:13/92 16:50 14:05-15:53/108	07:02 17:29 17:29	06:19 16:58-17:31/33 18:03 16:01-16:55/54	06:27 17:31-18:37/66 19:37	05:45 20:10 20:13	05:25 06:06-06:36/30 20:36
13	07:27 08:25-09:11/46 11:42-13:13/91 16:52 14:06-15:54/108	07:00 17:30 17:30	06:18 16:58-17:32/34 18:04 16:02-16:55/53	06:25 17:30-18:36/66 19:38	05:44 20:11 20:14	05:25 06:06-06:37/31 20:36
14	07:27 08:25-09:11/46 11:42-13:13/91 16:53 14:06-15:53/107	06:59 16:27-16:36/9 17:31	06:16 16:57-17:32/35 18:05 16:03-16:54/51	06:24 17:30-18:35/65 19:39	05:43 20:12 20:15	05:25 06:06-06:38/32 20:37
15	07:26 08:26-09:11/45 11:44-13:13/89 16:54 14:07-15:54/107	06:58 16:21-16:41/20 17:33	06:14 16:57-17:32/35 18:06 16:03-16:52/49	06:22 17:30-18:35/65 19:41	05:42 20:13 20:16	05:25 06:06-06:38/32 20:37
16	07:26 08:26-09:11/45 11:44-13:13/89 16:55 14:07-15:54/107	06:56 16:18-16:45/27 17:34	06:13 16:56-17:31/35 18:07 16:04-16:51/47	06:21 17:30-18:34/64 19:42	05:41 20:14 20:17	05:25 06:06-06:39/33 20:38
17	07:25 08:27-09:11/44 11:45-13:13/88 16:56 14:09-15:55/106	06:55 16:16-16:48/32 17:35	06:11 16:57-17:31/34 18:08 16:05-16:50/45	06:19 17:31-18:34/63 19:43	05:40 20:15 20:18	05:25 06:06-06:39/33 20:38
18	07:25 08:28-09:11/43 11:46-13:13/87 16:57 14:09-15:55/106	06:54 16:13-16:49/36 17:36	06:09 16:57-17:30/33 18:10 16:06-16:48/42	06:17 17:31-18:33/62 19:44	05:39 20:16 20:19	05:25 06:06-06:39/33 20:38
19	07:24 08:29-09:12/43 11:47-13:13/86 16:59 14:11-15:56/105	06:52 16:12-16:51/39 17:38	06:07 16:57-17:29/32 18:11 16:07-16:46/39	06:16 17:32-18:33/61 19:45	05:38 20:17 20:20	05:25 06:06-06:39/33 20:38
20	07:24 08:29-09:11/42 11:48-13:12/84 17:00 14:11-15:56/105	06:51 16:10-16:52/42 17:39	06:06 16:58-17:29/31 18:12 16:10-16:45/35	06:14 17:31-18:32/61 19:46	05:37 20:18 20:21	05:25 06:06-06:40/34 20:39
21	07:23 08:30-09:10/40 11:49-13:12/83 17:01 14:12-15:56/104	06:49 16:09-16:54/45 17:40	06:04 16:58-17:28/30 18:13 16:11-16:43/32	06:13 17:32-18:32/60 19:47	05:36 20:19 20:22	05:25 06:06-06:40/34 20:39
22	07:22 08:31-09:11/40 11:51-13:12/81 17:02 14:13-15:57/104	06:48 16:07-16:54/47 17:41	06:02 16:58-17:26/28 18:14 16:14-16:39/25	06:11 17:33-18:30/57 19:48	05:35 20:20 20:23	05:26 06:07-06:41/34 20:39
23	07:22 08:32-09:10/38 11:52-13:11/79 17:03 14:14-15:57/103	06:46 16:06-16:56/50 17:43	06:01 16:53-17:24/31 18:15 16:17-16:35/18	06:10 17:34-18:30/56 19:49	05:34 20:21 20:24	05:26 06:07-06:41/34 20:39
24	07:21 08:33-09:10/37 11:53-13:10/77 17:05 14:15-15:56/101	06:45 16:05-16:56/51 17:44	05:59 16:51-17:26/35 18:16 16:25-16:29/4	06:08 17:34-18:28/54 19:50	05:34 20:22 20:25	05:26 06:07-06:40/33 20:40
25	07:20 08:34-09:09/35 11:54-13:09/75 17:06 14:16-15:56/100	06:43 16:04-16:57/53 17:45	05:57 16:48-17:28/40 18:17	06:07 17:35-18:28/53 19:52	05:33 20:23 20:26	05:26 06:07-06:40/33 20:40
26	07:20 08:35-09:08/33 11:55-13:08/73 17:07 14:17-15:56/99	06:42 16:03-16:57/54 17:46	05:56 16:45-17:29/44 18:19	06:05 17:36-18:27/51 19:53	05:32 20:24 20:27	05:27 06:08-06:41/33 20:40
27	07:19 08:36-09:07/31 11:57-13:07/70 17:08 14:18-15:56/98	06:40 16:03-16:59/56 17:47	05:54 16:43-17:31/48 18:20	06:04 17:37-18:25/48 19:54	05:31 20:24 20:27	05:27 06:08-06:40/32 20:40
28	07:18 08:38-09:07/29 11:59-13:07/68 17:10 14:21-15:55/94	06:39 16:02-16:58/56 17:49	05:52 16:42-17:32/50 18:21	06:02 17:38-18:24/46 19:55	05:31 20:24 20:27	05:28 06:09-06:41/32 20:40
29	07:17 08:40-09:05/25 14:22-15:09/47 17:11 15:12-15:56/44 12:01-13:06/65		06:50 17:40-18:33/53 19:22	06:01 17:39-18:22/43 19:56	05:30 20:26 20:29	05:28 06:09-06:40/31 20:40
30	07:16 08:42-09:03/21 14:24-15:08/44 17:12 15:12-15:56/44 12:03-13:04/61		06:49 17:39-18:34/55 19:23	06:00 17:40-18:21/41 19:57	05:30 20:27 20:30	05:28 06:09-06:40/31 20:40
31	07:15 08:44-09:01/17 14:26-15:07/41 17:13 15:13-15:55/42 12:06-13:03/57		06:47 17:38-18:35/57 19:24		05:29 20:28 20:31	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	7193	1178	2071	1783	158	811

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: MT 16 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 06:11-06:40/29 20:40	05:53 20:20	06:25 17:29-18:35/66 19:36	06:56 17:38-18:11/33 18:44 16:41-17:35/54 16:56	06:32 16:56	07:08 08:06-08:53/47 11:23-12:55/92 16:31 13:47-15:35/108
2	05:29 06:11-06:39/28 20:39	05:54 20:19	06:26 17:29-18:35/66 19:34	06:58 17:38-18:10/32 18:42 16:40-17:35/55 16:55	06:33 16:55	07:09 08:07-08:53/46 11:23-12:56/93 16:31 13:47-15:35/108
3	05:30 06:12-06:39/27 20:39	05:55 20:18	06:27 17:28-18:34/66 19:32	06:59 17:38-18:09/31 18:41 16:39-17:35/56 16:54	06:34 14:57-15:12/15 16:54	07:10 08:07-08:53/47 11:23-12:56/93 16:30 13:47-15:35/108
4	05:30 06:13-06:38/25 20:39	05:56 20:17	06:28 17:28-18:34/66 19:31	07:00 17:38-18:08/30 18:39 16:38-17:35/57 16:53	06:36 14:55-15:16/21 16:53	07:11 08:07-08:54/47 11:23-12:57/94 16:30 13:47-15:35/108
5	05:31 06:14-06:38/24 20:39	05:57 20:15	06:29 17:28-18:33/65 19:29	07:01 17:39-18:06/27 18:37 16:37-17:35/58 16:51	06:37 14:52-15:18/26 16:51	07:12 08:08-08:54/46 11:23-12:58/95 16:30 13:48-15:36/108
6	05:32 06:16-06:37/21 20:39	05:58 20:14	06:30 17:28-18:33/65 19:27	07:02 17:40-18:05/25 18:36 16:36-17:34/58 16:50	06:38 14:50-15:20/30 11:57-12:13/16 16:50 14:10-14:24/14	07:13 08:08-08:55/47 11:24-12:58/94 16:30 13:48-15:36/108
7	05:32 06:16-06:36/20 20:38	06:00 18:04-18:18/14 20:13	06:32 17:28-18:32/64 19:26	07:03 17:41-18:02/21 18:34 16:36-17:34/58 16:49	06:39 14:49-15:22/33 11:50-12:21/31 16:49 14:06-14:29/23	07:14 08:08-08:55/47 09:56-10:07/11 16:30 13:48-15:36/108 11:24-12:59/95
8	05:33 06:19-06:34/15 20:38	06:01 18:00-18:21/21 20:12	06:33 17:28-18:31/63 19:24	07:04 17:43-18:00/17 18:32 16:35-17:34/59 16:48	06:40 14:47-15:23/36 11:45-12:25/40 16:48 14:03-14:32/29	07:15 08:08-08:56/47 09:55-10:10/15 16:30 13:49-15:38/109 11:24-13:00/96
9	05:34 06:21-06:33/12 20:38	06:02 17:57-18:24/27 20:10	06:34 17:28-18:30/62 19:22	07:05 17:48-17:56/8 18:31 16:36-17:34/58 16:47	06:42 14:46-15:24/38 11:41-12:28/47 16:47 14:00-14:34/34	07:16 08:10-08:56/46 09:53-10:13/20 16:30 13:49-15:38/109 11:24-13:00/96
10	05:34 06:25-06:28/3 20:37	06:03 17:54-18:26/32 20:09	06:35 17:28-18:29/61 19:21	07:06 16:35-17:34/59 18:29	06:43 08:19-08:28/9 13:59-14:36/37 16:46 14:45-15:25/40 11:39-12:32/53	07:16 08:10-08:57/47 09:53-10:15/22 16:30 13:49-15:38/109 11:25-13:01/96
11	05:35 20:37	06:04 17:52-18:28/36 20:08	06:36 17:29-18:28/59 19:19	07:07 16:35-17:33/58 18:27	06:44 08:15-08:32/17 13:56-14:38/42 16:45 14:44-15:26/42 11:36-12:34/58	07:17 08:10-08:56/46 09:51-10:15/24 16:30 13:49-15:38/109 11:24-13:00/96
12	05:36 20:36	06:05 17:50-18:29/39 20:06	06:37 17:29-18:26/57 19:17	07:08 16:35-17:32/57 18:26	06:45 08:13-08:34/21 13:55-14:39/44 16:44 14:43-15:26/43 11:34-12:35/61	07:18 08:10-08:57/47 09:51-10:17/26 16:30 13:50-15:39/109 11:25-13:01/96
13	05:36 20:36	06:06 17:49-18:30/41 20:05	06:38 17:30-18:25/55 19:15	07:10 16:35-17:32/57 18:24	06:47 08:12-08:37/25 13:53-14:40/47 16:43 14:42-15:27/45 11:32-12:37/65	07:19 08:11-08:57/46 09:51-10:18/27 16:30 13:50-15:39/109 11:25-13:02/97
14	05:37 20:35	06:07 17:47-18:31/44 20:04	06:39 17:30-18:24/54 19:14	07:11 16:35-17:31/56 18:22	06:48 08:10-08:39/29 13:52-14:42/50 16:42 14:43-15:28/45 11:31-12:39/68	07:20 08:12-08:58/46 09:51-10:20/29 16:30 13:51-15:40/109 11:26-13:02/96
15	05:38 20:35	06:08 17:46-18:32/46 20:02	06:40 17:31-18:22/51 19:12	07:12 16:36-17:31/55 18:21	06:49 08:09-08:40/31 11:30-12:40/70 16:41 13:51-15:29/98	07:20 08:13-08:59/46 09:51-10:21/30 16:30 13:52-15:41/109 11:27-13:03/96
16	05:39 20:34	06:09 17:44-18:33/49 20:01	06:41 17:32-18:20/48 19:10	07:13 16:36-17:30/54 18:19	06:50 08:07-08:41/34 11:28-12:41/73 16:40 13:50-15:29/99	07:21 08:12-08:58/46 09:51-10:21/30 16:31 13:51-15:40/109 11:26-13:03/97
17	05:40 20:33	06:10 17:43-18:34/51 19:59	06:42 17:33-18:18/45 19:08	07:14 16:36-17:29/53 18:18	06:51 08:08-08:43/35 11:28-12:43/75 16:39 13:50-15:30/100	07:22 08:13-08:59/46 09:51-10:22/31 16:31 13:52-15:41/109 11:27-13:04/97
18	05:40 20:33	06:11 17:42-18:35/53 19:58	06:43 17:35-18:16/41 19:07	07:15 16:37-17:27/50 18:16	06:53 08:07-08:44/37 11:27-12:44/77 16:38 13:49-15:30/101	07:23 08:14-09:00/46 09:52-10:24/32 16:31 13:52-15:41/109 11:27-13:04/97
19	05:41 20:32	06:12 17:40-18:35/55 19:56	06:44 17:37-18:13/36 19:05	07:16 16:37-17:26/49 18:15	06:54 08:06-08:44/38 11:26-12:45/79 16:38 13:48-15:31/103	07:23 08:14-09:00/46 09:51-10:24/33 16:32 13:53-15:42/109 11:28-13:05/97
20	05:42 20:31	06:13 17:39-18:36/57 19:55	06:45 17:39-18:10/31 19:03 17:04-17:21/17	07:18 16:39-17:26/47 18:13	06:55 08:06-08:46/40 11:26-12:47/81 16:37 13:48-15:32/104	07:24 08:15-09:01/46 09:52-10:25/33 16:32 13:54-15:43/109 11:29-13:06/97
21	05:43 20:30	06:14 17:38-18:36/58 19:53	06:46 17:42-18:11/29 19:01 17:00-17:24/24	07:19 16:40-17:24/44 18:12	06:56 08:06-08:47/41 11:25-12:48/83 16:36 13:48-15:32/104	07:24 08:15-09:01/46 09:52-10:25/33 16:32 13:54-15:43/109 11:29-13:06/97
22	05:44 20:30	06:15 17:37-18:37/60 19:52	06:47 17:43-18:12/29 19:00 16:57-17:26/29	07:20 16:41-17:22/41 18:10	06:57 08:05-08:47/42 11:24-12:48/84 16:35 13:47-15:32/105	07:25 08:16-09:02/46 09:53-10:26/33 16:33 13:55-15:44/109 11:30-13:07/97
23	05:45 20:29	06:16 17:36-18:37/61 19:50	06:48 17:41-18:12/31 18:58 16:54-17:28/34	07:21 16:42-17:20/38 18:09	06:59 08:05-08:48/43 11:24-12:49/85 16:35 13:47-15:32/105	07:25 08:16-09:02/46 09:53-10:26/33 16:33 13:55-15:44/109 11:30-13:07/97
24	05:46 20:28	06:17 17:34-18:36/62 19:49	06:49 17:40-18:13/33 18:56 16:51-17:29/38	07:22 16:43-17:18/35 18:07	07:00 08:06-08:49/43 11:24-12:51/87 16:34 13:47-15:32/105	07:26 08:16-09:02/46 09:53-10:26/33 16:34 13:55-15:44/109 11:30-13:07/97
25	05:47 20:27	06:18 17:33-18:36/63 19:47	06:50 17:39-18:13/34 18:54 16:49-17:30/41	07:23 15:46-16:17/31 17:06	07:01 08:05-08:49/44 11:23-12:51/88 16:34 13:47-15:33/106	07:26 08:17-09:03/46 09:54-10:27/33 16:35 13:56-15:45/109 11:31-13:08/97
26	05:48 20:26	06:19 17:33-18:36/63 19:46	06:51 17:38-18:13/35 18:53 16:47-17:31/44	07:25 15:48-16:14/26 17:04	07:02 08:05-08:50/45 11:23-12:52/89 16:33 13:46-15:33/107	07:27 08:17-09:03/46 09:55-10:26/31 16:35 13:56-15:45/109 11:31-13:08/97
27	05:49 20:25	06:20 17:32-18:36/64 19:44	06:52 17:38-18:13/35 18:51 16:47-17:33/46	07:26 15:51-16:10/19 17:03	07:03 08:05-08:50/45 11:23-12:52/89 16:33 13:46-15:33/107	07:27 08:17-09:03/46 09:55-10:26/31 16:36 13:56-15:45/109 11:31-13:08/97
28	05:50 20:24	06:21 17:31-18:36/65 19:42	06:53 17:38-18:13/35 18:49 16:45-17:34/49	07:27 15:59-16:03/4 17:02	07:04 08:05-08:51/46 11:22-12:53/91 16:32 13:46-15:34/108	07:27 08:18-09:04/46 09:57-10:27/30 16:36 13:57-15:46/109 11:33-13:09/96
29	05:51 20:23	06:22 17:31-18:36/65 19:41	06:54 17:38-18:13/35 18:48 16:44-17:34/50	07:28 17:00	07:05 08:05-08:51/46 11:22-12:53/91 16:32 13:46-15:34/108	07:28 08:19-09:05/46 09:58-10:27/29 16:37 13:58-15:47/109 11:33-13:09/96
30	05:51 20:22	06:23 17:30-18:36/66 19:39	06:55 17:38-18:12/34 18:46 16:42-17:34/52	07:29 16:59	07:07 08:06-08:52/46 11:23-12:55/92 16:31 13:47-15:35/108	07:28 08:19-09:05/46 09:59-10:26/27 16:38 13:58-15:47/109 11:33-13:10/97
31	05:52 20:21	06:24 17:30-18:36/66 19:37		07:30 16:58		07:28 08:19-09:05/46 10:00-10:26/26 16:39 13:58-15:47/109 11:34-13:10/96
Potential sun hours	462	429	375	344	296	285
Sum of minutes with flicker	204	1258	1875	1570	4932	8478

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: MT 17 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 15:00-15:46/46 16:40	07:14 16:04-16:25/21 17:15	06:37 07:37-08:40/63 17:50	06:45 07:55-09:01/66 19:25	05:58 19:58	05:29 20:28
2	07:28 15:02-15:47/45 16:41	07:13 16:05-16:24/19 17:16	06:36 07:37-08:40/63 17:51	06:44 07:55-09:00/65 19:26	05:57 19:59	05:28 20:29
3	07:28 15:02-15:47/45 16:42	07:12 16:07-16:23/16 17:17	06:34 07:37-08:39/62 17:52	06:42 07:56-08:59/63 19:27	05:56 20:00	05:28 20:30
4	07:28 16:05-16:06/1 16:42 15:02-15:48/46	07:11 16:10-16:21/11 17:19	06:32 07:34-08:39/65 17:53	06:40 07:56-08:58/62 19:28	05:54 20:01	05:27 20:31
5	07:28 16:03-16:10/7 16:43 15:03-15:48/45	07:10 17:20	06:31 07:26-08:38/72 17:55	06:39 07:56-08:56/60 19:30	05:53 20:02	05:27 20:31
6	07:28 16:02-16:12/10 16:44 15:04-15:49/45	07:09 17:21	06:29 07:22-08:37/75 17:56	06:37 07:57-08:56/59 19:31	05:52 20:04	05:27 20:32
7	07:28 16:01-16:14/13 16:45 15:04-15:49/45	07:08 08:02-08:19/17 17:22	06:28 07:19-08:37/78 17:57	06:35 07:57-08:54/57 19:32	05:51 20:05	05:26 20:33
8	07:28 16:00-16:15/15 16:46 15:04-15:49/45	07:07 07:58-08:23/25 17:24	06:26 07:16-08:35/79 17:58	06:34 07:57-08:52/55 19:33	05:49 20:06	05:26 20:33
9	07:28 15:59-16:16/17 16:47 15:05-15:50/45	07:05 07:55-08:25/30 17:25	06:24 07:14-08:34/80 17:59	06:32 07:58-08:51/53 19:34	05:48 20:07	05:26 20:34
10	07:28 15:59-16:18/19 16:48 15:05-15:50/45	07:04 07:53-08:28/35 17:26	06:23 07:12-08:33/81 18:00	06:30 07:59-08:49/50 19:35	05:47 20:08	05:26 20:35
11	07:28 15:59-16:19/20 16:49 15:06-15:51/45	07:03 07:51-08:30/39 17:28	06:21 07:10-08:32/82 18:02	06:29 08:00-08:47/47 19:36	05:46 20:09	05:25 20:35
12	07:27 15:58-16:20/22 16:51 15:06-15:51/45	07:02 07:49-08:31/42 17:29	06:19 07:08-08:30/82 18:03	06:27 08:01-08:46/45 19:37	05:45 20:10	05:25 20:36
13	07:27 15:59-16:21/22 16:52 15:07-15:51/44	07:00 07:48-08:33/45 17:30	06:18 07:07-08:29/82 18:04	06:25 08:02-08:43/41 19:38	05:44 20:11	05:25 20:36
14	07:27 15:58-16:21/23 16:53 15:07-15:51/44	06:59 07:47-08:35/48 17:31	06:16 07:06-08:27/81 18:05	06:24 08:04-08:41/37 19:39	05:43 20:12	05:25 20:37
15	07:26 15:58-16:23/25 16:54 15:08-15:52/44	06:58 07:45-08:35/50 17:33	06:14 07:04-08:24/80 18:06	06:22 08:06-08:38/32 19:41	05:42 20:13	05:25 20:37
16	07:26 15:58-16:23/25 16:55 15:08-15:51/43	06:56 07:44-08:37/53 17:34	06:13 07:02-08:22/80 18:07	06:21 08:08-08:35/27 19:42	05:41 20:14	05:25 20:37
17	07:25 15:58-16:24/26 16:56 15:09-15:52/43	06:55 07:44-08:38/54 17:35	06:11 07:02-08:20/78 18:08	06:19 08:11-08:32/21 19:43	05:40 20:15	05:25 20:38
18	07:25 15:58-16:25/27 16:57 15:10-15:52/42	06:54 07:42-08:38/56 17:36	06:09 07:01-08:17/76 18:10	06:17 08:16-08:25/9 19:44	05:39 20:16	05:25 20:38
19	07:24 15:58-16:26/28 16:59 15:11-15:52/41	06:52 07:42-08:39/57 17:38	06:07 07:00-08:13/73 18:11	06:16 19:45	05:38 20:17	05:25 20:38
20	07:24 15:58-16:26/28 17:00 15:11-15:52/41	06:51 07:41-08:39/58 17:39	06:06 07:00-08:07/67 18:12	06:14 19:46	05:37 20:18	05:25 20:39
21	07:23 15:58-16:26/28 17:01 15:12-15:51/39	06:49 07:40-08:40/60 17:40	06:04 06:59-08:06/67 18:13	06:13 19:47	05:36 20:19	05:26 20:39
22	07:22 15:59-16:27/28 17:02 15:13-15:52/39	06:48 07:39-08:40/61 17:41	06:02 06:58-08:06/68 18:14	06:11 19:48	05:35 20:20	05:26 20:39
23	07:22 15:59-16:27/28 17:03 15:14-15:51/37	06:46 07:39-08:41/62 17:43	06:01 06:57-08:06/69 18:15	06:10 19:49	05:34 20:21	05:26 20:39
24	07:21 15:59-16:28/29 17:05 15:15-15:51/36	06:45 07:38-08:40/62 17:44	05:59 06:57-08:06/69 18:16	06:08 19:50	05:34 20:22	05:26 20:40
25	07:20 15:59-16:28/29 17:06 15:16-15:50/34	06:43 07:39-08:41/62 17:45	05:57 06:56-08:05/69 18:17	06:07 19:52	05:33 20:23	05:27 20:40
26	07:20 15:59-16:27/28 17:07 15:17-15:49/32	06:42 07:38-08:41/63 17:46	05:56 06:56-08:05/69 18:19	06:05 19:53	05:32 20:23	05:27 20:40
27	07:19 16:00-16:27/27 17:08 15:19-15:48/29	06:40 07:38-08:41/63 17:47	05:54 06:56-08:05/69 18:20	06:04 19:54	05:32 20:24	05:27 20:40
28	07:18 16:00-16:27/27 17:10 15:20-15:47/27	06:39 07:37-08:40/63 17:49	05:52 06:55-08:04/69 18:21	06:02 19:55	05:31 20:25	05:28 20:40
29	07:17 16:02-16:28/26 17:11 15:23-15:47/24		06:50 07:55-09:03/68 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 16:03-16:27/24 17:12 15:25-15:45/20		06:49 07:55-09:02/67 19:23	06:00 19:57	05:30 20:27	05:28 20:40
31	07:15 16:04-16:27/23 17:14 15:28-15:42/14		06:47 07:55-09:02/67 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	1840	1172	2250	849	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: MT 17 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 07:58-08:46/48 19:36	06:56 07:47-09:09/82 18:44	06:32 07:23-07:57/34 16:56	07:08 15:41-16:01/20 16:31 14:48-15:33/45
2	05:29 20:39	05:54 20:19	06:26 07:57-08:47/50 19:34	06:58 07:48-09:10/82 18:42	06:33 07:25-07:55/30 16:55	07:09 15:42-16:01/19 16:31 14:48-15:33/45
3	05:30 20:39	05:55 20:18	06:27 07:55-08:48/53 19:32	06:59 07:49-09:10/81 18:41	06:34 07:28-07:52/24 16:54	07:10 15:43-16:00/17 16:30 14:49-15:34/45
4	05:30 20:39	05:56 20:17	06:28 07:54-08:49/55 19:31	07:00 07:50-09:11/81 18:39	06:36 07:32-07:49/17 16:53	07:11 15:45-16:00/15 16:30 14:49-15:34/45
5	05:31 20:39	05:57 20:15	06:29 07:53-08:50/57 19:29	07:01 07:52-09:12/80 18:37	06:37 16:51	07:12 15:46-15:59/13 16:30 14:49-15:34/45
6	05:32 20:39	05:59 20:14	06:30 07:52-08:51/59 19:27	07:02 07:54-09:12/78 18:36	06:38 16:50	07:13 15:48-15:58/10 16:30 14:50-15:35/45
7	05:32 20:38	06:00 20:13	06:32 07:51-08:51/60 19:26	07:03 07:56-09:12/76 18:34	06:39 15:40-15:52/12 16:49	07:14 15:50-15:57/7 16:30 14:50-15:35/45
8	05:33 20:38	06:01 20:12	06:33 07:50-08:52/62 19:24	07:04 08:00-09:13/73 18:32	06:40 15:38-15:54/16 16:48	07:15 15:53-15:55/2 16:30 14:51-15:36/45
9	05:34 20:38	06:02 20:10	06:34 07:49-08:52/63 19:22	07:05 08:04-09:14/70 18:31	06:42 15:36-15:55/19 16:47	07:16 14:51-15:36/45 16:30
10	05:34 20:37	06:03 20:09	06:35 07:48-08:53/65 19:21	07:06 08:12-09:14/62 18:29	06:43 15:35-15:56/21 16:46	07:16 14:52-15:37/45 16:30
11	05:35 20:37	06:04 20:08	06:36 07:47-08:53/66 19:19	07:07 08:11-09:14/63 18:27	06:44 15:35-15:58/23 16:45	07:17 14:51-15:36/45 16:30
12	05:36 20:36	06:05 20:06	06:37 07:46-08:53/67 19:17	07:08 08:11-09:13/62 18:26	06:45 15:34-15:58/24 16:44	07:18 14:50-15:37/47 16:30
13	05:36 20:36	06:06 20:05	06:38 07:46-08:53/67 19:15	07:10 08:10-09:13/63 18:24	06:47 15:33-15:59/26 16:43	07:19 14:49-15:37/48 16:30
14	05:37 20:35	06:07 20:04	06:39 07:45-08:53/68 19:14	07:11 08:10-09:13/63 18:22	06:48 15:33-16:00/27 16:42	07:20 14:49-15:38/49 16:30
15	05:38 20:35	06:08 20:02	06:40 07:45-08:53/68 19:12	07:12 08:10-09:13/63 18:21	06:49 15:33-16:00/27 16:41	07:20 14:48-15:38/50 16:30
16	05:39 20:34	06:09 20:01	06:41 07:44-08:53/69 19:10	07:13 08:10-09:13/63 18:19	06:50 15:32-16:00/28 16:40	07:21 14:49-15:38/49 16:31
17	05:40 20:33	06:10 19:59	06:42 07:44-08:53/69 19:08	07:14 08:10-09:12/62 18:18	06:51 15:33-16:02/29 16:39	07:22 14:49-15:39/50 16:31
18	05:40 20:33	06:11 19:58	06:43 07:44-08:53/69 19:07	07:15 08:10-09:12/62 18:16	06:53 15:33-16:02/29 16:38	07:23 14:48-15:39/51 16:31
19	05:41 20:32	06:12 19:56	06:44 07:43-08:52/69 19:05	07:16 08:10-09:11/61 18:15	06:54 15:33-16:01/28 16:38	07:23 14:49-15:40/51 16:32
20	05:42 20:31	06:13 19:55	06:45 07:43-08:52/69 19:03	07:18 08:11-09:11/60 18:13	06:55 15:33-16:01/28 16:37	07:24 14:50-15:41/51 16:32
21	05:43 20:30	06:14 19:53	06:46 07:43-08:52/69 19:01	07:19 08:11-09:11/60 18:12	06:56 15:34-16:02/28 16:36	07:24 14:50-15:41/51 16:32
22	05:44 20:30	06:15 19:52	06:47 07:43-08:51/68 19:00	07:20 08:11-09:10/59 18:10	06:57 15:34-16:02/28 16:35	07:25 14:51-15:42/51 16:33
23	05:45 20:29	06:16 19:50	06:48 07:43-08:50/67 18:58	07:21 08:12-09:09/57 18:09	06:59 15:34-16:02/28 16:35	07:25 14:51-15:42/51 16:33
24	05:46 20:28	06:17 19:49	06:49 07:43-08:55/72 18:56	07:22 08:13-09:08/55 18:07	07:00 15:35-16:02/27 16:34	07:26 14:51-15:42/51 16:34
25	05:47 20:27	06:18 08:19-08:30/11 19:47	06:50 07:43-08:58/75 18:54	06:23 07:14-08:07/53 17:06	07:01 15:36-16:02/26 16:34	07:26 14:52-15:43/51 16:35
26	05:48 20:26	06:19 08:14-08:35/21 19:46	06:51 07:44-09:02/78 18:53	06:25 07:14-08:06/52 17:04	07:02 15:37-16:02/25 16:33	07:27 14:53-15:43/50 16:35
27	05:49 20:25	06:20 08:10-08:38/28 19:44	06:52 07:45-09:04/79 18:51	06:26 07:15-08:05/50 17:03	07:03 15:37-16:02/25 16:33	07:27 14:53-15:43/50 16:36
28	05:50 20:24	06:21 08:07-08:41/34 19:42	06:53 07:45-09:05/80 18:49	06:27 07:17-08:04/47 17:02	07:04 15:38-16:01/23 16:32	07:27 14:55-15:45/50 16:36
29	05:51 20:23	06:22 08:04-08:42/38 19:41	06:54 07:46-09:07/81 18:48	06:28 07:18-08:02/44 17:00	07:05 15:39-16:01/22 16:32	07:28 14:56-15:45/49 16:37
30	05:52 20:22	06:23 08:02-08:43/41 19:39	06:55 07:46-09:08/82 18:46	06:29 07:19-08:01/42 16:59	07:07 15:39-16:01/22 16:31	07:28 14:57-15:45/48 16:38
31	05:52 20:21	06:24 08:00-08:45/45 19:37		06:31 07:20-07:59/39 16:58		07:28 14:58-15:46/48 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	0	218	2004	1945	1415	1594

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: MT 18 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

N NNE ENE E ESE SSE S SSW WSW W WNW NNW Sum
981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 07:35-08:02/27 17:15	06:37 07:06-08:01/55 17:50	06:45 19:25	05:58 19:58	05:29 20:28
2	07:28 16:41	07:13 07:33-08:00/27 17:16	06:36 07:06-08:02/56 17:51	06:44 19:26	05:57 19:59	05:28 20:29
3	07:28 16:42	07:12 07:32-08:00/28 17:17	06:34 07:05-08:02/57 17:52	06:42 19:27	05:56 20:00	05:28 20:30
4	07:28 16:42	07:11 07:31-07:59/28 17:19	06:32 07:05-08:03/58 17:53	06:40 19:28	05:54 20:01	05:27 20:31
5	07:28 16:43	07:10 07:30-07:58/28 17:20	06:31 07:04-08:02/58 17:55	06:38 19:29	05:53 20:02	05:27 05:49-05:51/2 20:31
6	07:28 16:44	07:09 07:29-07:57/28 17:21	06:29 07:03-08:02/59 17:56	06:37 19:31	05:52 20:03	05:27 05:49-05:52/3 20:32
7	07:28 16:45	07:08 07:28-07:55/27 17:22	06:28 06:47-08:03/76 17:57	06:35 19:32	05:51 20:05	05:26 05:48-05:52/4 20:33
8	07:28 16:46	07:07 07:27-07:52/25 17:24	06:26 06:45-08:02/77 17:58	06:33 19:33	05:49 20:06	05:26 05:48-05:53/5 20:33
9	07:28 16:47	07:05 07:26-07:51/25 17:25	06:24 06:43-08:02/79 17:59	06:32 19:34	05:48 20:07	05:26 05:48-05:54/6 20:34
10	07:28 16:48	07:04 07:26-07:51/25 17:26	06:23 06:42-08:02/80 18:00	06:30 19:35	05:47 20:08	05:26 05:48-05:55/7 20:35
11	07:28 16:49	07:03 07:27-07:51/24 17:28	06:21 06:40-08:01/81 18:02	06:29 19:36	05:46 20:09	05:25 05:48-05:56/8 20:35
12	07:27 16:50	07:02 07:27-07:49/22 17:29	06:19 06:38-08:01/83 18:03	06:27 19:37	05:45 20:10	05:25 05:48-05:56/8 20:36
13	07:27 16:52	07:00 07:28-07:49/21 17:30	06:18 06:37-08:01/84 18:04	06:25 19:38	05:44 20:11	05:25 05:48-05:57/9 20:36
14	07:27 16:53	06:59 07:30-07:48/18 17:31	06:16 06:36-08:00/84 18:05	06:24 19:39	05:43 20:12	05:25 05:48-05:57/9 20:37
15	07:26 16:54	06:58 07:31-07:46/15 17:33	06:14 06:35-07:59/84 18:06	06:22 19:40	05:42 20:13	05:25 05:48-05:58/10 20:37
16	07:26 16:55	06:56 07:33-07:44/11 17:34	06:13 06:34-07:57/83 18:07	06:20 19:42	05:41 20:14	05:25 05:48-05:58/10 20:37
17	07:25 07:47-07:50/3 16:56	06:55 17:35	06:11 06:35-07:57/82 18:08	06:19 19:43	05:40 20:15	05:25 05:48-05:58/10 20:38
18	07:25 07:46-07:52/6 16:57	06:54 07:29-07:41/12 17:36	06:09 06:34-07:56/82 18:10	06:17 19:44	05:39 20:16	05:25 05:48-05:59/11 20:38
19	07:24 07:46-07:54/8 16:59	06:52 07:24-07:46/22 17:38	06:07 06:34-07:54/80 18:11	06:16 19:45	05:38 20:17	05:25 05:48-05:59/11 20:38
20	07:24 07:45-07:55/10 17:00	06:51 07:21-07:49/28 17:39	06:06 06:35-07:54/79 18:12	06:14 19:46	05:37 20:18	05:25 05:48-05:59/11 20:39
21	07:23 07:44-07:56/12 17:01	06:49 07:19-07:52/33 17:40	06:04 06:35-07:52/77 18:13	06:13 19:47	05:36 20:19	05:25 05:48-05:59/11 20:39
22	07:22 07:44-07:58/14 17:02	06:48 07:16-07:53/37 17:41	06:02 06:35-07:50/75 18:14	06:11 19:48	05:35 20:20	05:26 05:49-06:00/11 20:39
23	07:22 07:43-07:59/16 17:03	06:46 07:15-07:55/40 17:43	06:01 07:06-07:48/42 18:15	06:10 19:49	05:34 20:21	05:26 05:49-06:00/11 20:39
24	07:21 07:42-07:59/17 17:05	06:45 07:12-07:56/44 17:44	05:59 07:08-07:46/38 18:16	06:08 19:50	05:34 20:22	05:26 05:49-06:00/11 20:39
25	07:20 07:41-08:00/19 17:06	06:43 07:11-07:58/47 17:45	05:57 07:09-07:44/35 18:17	06:07 19:51	05:33 20:23	05:26 05:49-05:59/10 20:40
26	07:19 07:40-08:00/20 17:07	06:42 07:10-07:59/49 17:46	05:55 07:10-07:41/31 18:18	06:05 19:53	05:32 20:23	05:27 05:50-06:00/10 20:40
27	07:19 07:39-08:00/21 17:08	06:40 07:09-08:00/51 17:47	05:54 07:13-07:37/24 18:20	06:04 19:54	05:31 20:24	05:27 05:50-06:00/10 20:40
28	07:18 07:39-08:02/23 17:10	06:39 07:08-08:01/53 17:49	05:52 07:17-07:33/16 18:21	06:02 19:55	05:31 20:25	05:28 05:51-06:01/10 20:40
29	07:17 07:38-08:02/24 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 05:51-06:00/9 20:40
30	07:16 07:37-08:02/25 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:28 05:51-06:00/9 20:40
31	07:15 07:36-08:02/26 17:13		06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	244	795	1931	0	0	226

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: MT 18 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July		August		September		October		November		December	
1	05:29	05:52-06:00/8	05:53	06:25	06:56	07:17-08:40/83	06:32	06:56-07:21/25	07:08			
	20:40		20:20	19:36	18:44		16:56		16:31			
2	05:29	05:52-05:59/7	05:54	06:26	06:57	07:18-08:40/82	06:33	06:56-07:21/25	07:09			
	20:39		20:19	19:34	18:42		16:55		16:31			
3	05:30	05:53-06:00/7	05:55	06:27	06:59	07:19-08:40/81	06:34	06:56-07:20/24	07:10			
	20:39		20:18	19:32	18:41		16:54		16:30			
4	05:30	05:54-06:00/6	05:56	06:28	07:00	07:20-08:39/79	06:35	06:58-07:25/27	07:11			
	20:39		20:16	19:31	18:39		16:52		16:30			
5	05:31	05:54-05:59/5	05:57	06:29	07:01	07:21-08:39/78	06:37	06:59-07:27/28	07:12			
	20:39		20:15	19:29	18:37		16:51		16:30			
6	05:32	05:55-05:59/4	05:58	06:30	07:02	07:22-08:39/77	06:38	07:00-07:28/28	07:13			
	20:39		20:14	19:27	18:36		16:50		16:30			
7	05:32	05:55-05:57/2	05:59	06:31	07:03	07:23-08:38/75	06:39	07:02-07:30/28	07:14			
	20:38		20:13	19:26	18:34		16:49		16:30			
8	05:33	05:56-05:57/1	06:01	06:33	07:04	07:38-08:37/59	06:40	07:03-07:31/28	07:15			
	20:38		20:12	19:24	18:32	07:24-07:36/12	16:48		16:30			
9	05:34		06:02	06:34	07:05	07:39-08:38/59	06:42	07:04-07:31/27	07:15			
	20:38		20:10	19:22	18:31		16:47		16:30			
10	05:34		06:03	06:35	07:06	07:39-08:37/58	06:43	07:06-07:32/26	07:16			
	20:37		20:09	19:20	18:29		16:46		16:30			
11	05:35		06:04	06:36	07:07	07:39-08:36/57	06:44	07:07-07:33/26	07:17			
	20:37		20:08	19:19	18:27		16:45		16:30			
12	05:36		06:05	06:37	07:08	07:40-08:35/55	06:45	07:08-07:33/25	07:18			
	20:36		20:06	19:17	18:26		16:44		16:30			
13	05:36		06:06	06:38	07:10	07:40-08:34/54	06:46	07:10-07:34/24	07:19			
	20:36		20:05	19:15	18:24		16:43		16:30			
14	05:37		06:07	06:39	07:11	07:40-08:33/53	06:48	07:11-07:33/22	07:20			
	20:35		20:03	19:14	18:22		16:42		16:30			
15	05:38		06:08	06:40	07:12	07:42-08:32/50	06:49	07:12-07:33/21	07:20			
	20:35		20:02	19:12	18:21		16:41		16:30			
16	05:39		06:09	06:41	07:13	07:43-08:31/48	06:50	07:13-07:33/20	07:21			
	20:34		20:01	19:10	18:19		16:40		16:31			
17	05:40		06:10	06:42	07:14	07:43-08:29/46	06:51	07:15-07:34/19	07:22			
	20:33		19:59	19:08	18:18		16:39		16:31			
18	05:40		06:11	06:43	07:15	07:44-08:27/43	06:53	07:16-07:33/17	07:22			
	20:33		19:58	19:07	18:16		16:38		16:31			
19	05:41		06:12	06:44	07:16	07:46-08:25/39	06:54	07:17-07:33/16	07:23			
	20:32		19:56	19:05	18:15		16:38		16:32			
20	05:42		06:13	06:45	07:18	07:48-08:24/36	06:55	07:19-07:33/14	07:24			
	20:31		19:55	19:03	18:13		16:37		16:32			
21	05:43		06:14	06:46	07:19	07:50-08:22/32	06:56	07:20-07:32/12	07:24			
	20:30		19:53	19:01	18:12		16:36		16:32			
22	05:44		06:15	06:47	07:20	07:52-08:19/27	06:57	07:21-07:31/10	07:25			
	20:30		19:52	19:00	18:10		16:35		16:33			
23	05:45		06:16	06:48	07:21	07:55-08:15/20	06:59	07:22-07:30/8	07:25			
	20:29		19:50	18:58	18:09		16:35		16:33			
24	05:46		06:17	06:49	07:22	08:01-08:08/7	07:00	07:24-07:30/6	07:26			
	20:28		19:49	18:56	18:07		16:34		16:34			
25	05:47		06:18	06:50	07:23	07:06-07:11/5	07:01	07:25-07:28/3	07:26			
	20:27		19:47	18:54	17:06		16:34		16:35			
26	05:48		06:19	06:51	07:24	07:02-07:14/12	07:02		07:27			
	20:26		19:45	18:53	17:04		16:33		16:35			
27	05:49		06:20	06:52	07:25	07:00-07:16/16	07:03		07:27			
	20:25		19:44	18:51	17:03		16:33		16:36			
28	05:50		06:21	06:53	07:26	06:59-07:18/19	07:04		07:27			
	20:24		19:42	18:49	17:02		16:32		16:36			
29	05:50		06:22	06:54	07:27	06:58-07:19/21	07:05		07:28			
	20:23		19:41	18:47	17:00		16:32		16:37			
30	05:51		06:23	06:55	07:28	06:57-07:19/22	07:06		07:28			
	20:22		19:39	18:46	16:59		16:31		16:38			
31	05:52		06:24		06:31	06:56-07:20/24			07:28			
	20:21		19:37		16:58				16:39			
Potential sun hours	461		429	375	344		296		285			
Sum of minutes with flicker	40		0	1072	1429		509		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: MT 19 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 08:15-09:04/49 16:40 07:51-08:06/15	07:14 07:43-08:35/52 17:15	06:37 17:50	06:45 07:04-07:22/18 19:25	05:58 19:58	05:29 05:50-06:13/23 20:28
2	07:28 08:16-09:04/48 16:41 07:51-08:07/16	07:13 07:42-08:35/53 17:16	06:36 17:51	06:44 07:02-07:17/15 19:26	05:57 19:59	05:28 05:51-06:14/23 20:29
3	07:28 08:17-09:05/48 16:41 07:51-08:08/17	07:12 07:42-08:35/53 17:17	06:34 17:52	06:42 07:01-07:14/13 19:27	05:56 20:00	05:28 05:52-06:14/22 20:30
4	07:28 08:17-09:05/48 16:42 07:51-08:09/18	07:11 07:42-08:36/54 17:19	06:32 17:53	06:40 06:59-07:14/15 19:28	05:54 20:01	05:27 05:51-06:13/22 20:31
5	07:28 08:18-09:05/47 16:43 07:51-08:10/19	07:10 07:42-08:36/54 17:20	06:31 17:55	06:38 06:57-07:13/16 19:29	05:53 20:02	05:27 05:52-06:13/21 20:31
6	07:28 08:19-09:06/47 16:44 07:51-08:11/20	07:09 07:42-08:36/54 17:21	06:29 17:56	06:37 06:56-07:13/17 19:31	05:52 20:03	05:26 05:53-06:13/20 20:32
7	07:28 08:19-09:06/47 16:45 07:51-08:11/20	07:08 07:42-08:37/55 17:22	06:28 17:57	06:35 06:54-07:12/18 19:32	05:51 20:05	05:26 05:53-06:12/19 20:33
8	07:28 08:19-09:05/46 16:46 07:51-08:12/21	07:07 07:43-08:37/54 17:24	06:26 17:58	06:33 06:53-07:10/17 19:33	05:49 20:06	05:26 05:54-06:12/18 20:33
9	07:28 07:50-08:12/22 16:47 08:20-09:06/46	07:05 07:42-08:36/54 17:25	06:24 17:59	06:32 06:54-07:09/15 19:34	05:48 20:07	05:26 05:55-06:12/17 20:34
10	07:28 07:50-08:13/23 16:48 08:21-09:06/45	07:04 07:43-08:36/53 17:26	06:23 18:00	06:30 06:56-07:07/11 19:35	05:47 20:08	05:25 05:55-06:12/17 20:35
11	07:28 07:50-08:14/24 16:49 08:22-09:06/44	07:03 07:43-08:36/53 17:28	06:21 18:02	06:29 07:00-07:02/2 19:36	05:46 20:09	05:25 05:56-06:12/16 20:35
12	07:27 07:49-08:14/25 16:50 08:22-09:06/44	07:02 07:43-08:35/52 17:29	06:19 18:03	06:27 19:37	05:45 06:05-06:08/3 20:10	05:25 05:57-06:12/15 20:36
13	07:27 07:49-08:15/26 16:52 08:24-09:06/42	07:00 07:44-08:35/51 17:30	06:18 18:04	06:25 19:38	05:44 06:04-06:09/5 20:11	05:25 05:57-06:12/15 20:36
14	07:27 07:48-08:15/27 16:53 08:24-09:05/41	06:59 07:45-08:35/50 17:31	06:16 18:05	06:24 19:39	05:43 06:03-06:10/7 20:12	05:25 05:58-06:12/14 20:37
15	07:26 07:48-08:17/29 16:54 08:25-09:06/41	06:58 07:44-08:33/49 17:33	06:14 18:06	06:22 19:40	05:42 06:02-06:11/9 20:13	05:25 05:58-06:12/14 20:37
16	07:26 07:47-08:18/31 16:55 08:26-09:05/39	06:56 07:46-08:33/47 17:34	06:13 18:07	06:20 19:42	05:41 06:01-06:12/11 20:14	05:25 05:59-06:11/12 20:37
17	07:25 07:47-08:20/33 16:56 08:27-09:05/38	06:55 07:47-08:32/45 17:35	06:11 18:08	06:19 19:43	05:40 06:00-06:12/12 20:15	05:25 05:59-06:11/12 20:38
18	07:25 07:46-08:21/35 16:57 08:28-09:04/36	06:54 07:47-08:31/44 17:36	06:09 18:10	06:17 19:44	05:39 05:59-06:12/13 20:16	05:25 06:00-06:11/11 20:38
19	07:24 07:46-08:23/37 16:58 08:30-09:04/34	06:52 07:49-08:30/41 17:38	06:07 18:11	06:16 19:45	05:38 05:59-06:14/15 20:17	05:25 06:00-06:11/11 20:38
20	07:24 07:45-08:24/39 17:00 08:31-09:03/32	06:51 07:49-08:28/39 17:39	06:06 18:12	06:14 19:46	05:37 05:58-06:14/16 20:18	05:25 06:00-06:11/11 20:39
21	07:23 07:44-08:25/41 17:01 08:32-09:02/30	06:49 07:51-08:27/36 17:40	06:04 06:23-06:27/4 18:13	06:13 19:47	05:36 05:57-06:14/17 20:19	05:25 06:00-06:11/11 20:39
22	07:22 07:45-08:27/42 17:02 08:34-09:01/27	06:48 07:52-08:24/32 17:41	06:02 06:21-06:28/7 18:14	06:11 19:48	05:35 05:56-06:14/18 20:20	05:26 06:01-06:12/11 20:39
23	07:22 07:45-08:28/43 17:03 08:36-09:00/24	06:46 07:55-08:22/27 17:43	06:01 06:19-06:28/9 18:15	06:10 19:49	05:34 05:56-06:15/19 20:21	05:26 06:01-06:12/11 20:39
24	07:21 07:45-08:29/44 17:05 08:38-08:57/19	06:45 07:57-08:19/22 17:44	05:59 06:18-06:29/11 18:16	06:08 19:50	05:34 05:55-06:14/19 20:22	05:26 06:01-06:12/11 20:39
25	07:20 07:44-08:30/46 17:06 08:41-08:54/13	06:43 08:01-08:15/14 17:45	05:57 06:16-06:29/13 18:17	06:07 19:51	05:33 05:54-06:14/20 20:23	05:26 06:00-06:12/12 20:40
26	07:19 07:44-08:31/47 17:07	06:42 17:46	05:55 06:14-06:28/14 18:18	06:05 19:53	05:32 05:54-06:15/21 20:23	05:27 06:01-06:13/12 20:40
27	07:19 07:43-08:31/48 17:08	06:40 17:47	05:54 06:13-06:29/16 18:20	06:04 19:54	05:31 05:53-06:14/21 20:24	05:27 06:01-06:14/13 20:40
28	07:18 07:43-08:32/49 17:10	06:39 17:49	05:52 06:11-06:28/17 18:21	06:02 19:55	05:31 05:52-06:14/22 20:25	05:27 06:01-06:15/14 20:40
29	07:17 07:43-08:34/51 17:11		06:50 07:09-07:27/18 19:22	06:01 19:56	05:30 05:52-06:14/22 20:26	05:28 06:00-06:15/15 20:40
30	07:16 07:43-08:34/51 17:12		06:49 07:07-07:25/18 19:23	06:00 19:57	05:30 05:51-06:14/23 20:27	05:28 06:00-06:15/15 20:40
31	07:15 07:43-08:35/52 17:13		06:47 07:06-07:24/18 19:24		05:29 05:51-06:14/23 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	1986	1138	145	157	316	458

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: MT 19 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 06:00-06:16/16 20:40	05:53 06:16-06:18/2 20:20	06:25 06:58-07:01/3 19:36	06:56 18:44	06:32 07:12-08:06/54 16:56	07:08 07:32-07:56/24 16:31 08:04-08:48/44
2	05:29 06:00-06:16/16 20:39	05:54 20:19	06:26 06:54-07:05/11 19:34	06:57 18:42	06:33 07:12-08:06/54 16:55	07:09 07:33-07:56/23 16:31 08:04-08:49/45
3	05:30 06:00-06:17/17 20:39	05:55 20:18	06:27 06:51-07:06/15 19:32	06:59 18:41	06:34 07:12-08:06/54 16:54	07:10 07:34-07:56/22 16:30 08:04-08:50/46
4	05:30 05:59-06:17/18 20:39	05:56 20:16	06:28 06:50-07:07/17 19:31	07:00 18:39	06:35 07:12-08:06/54 16:52	07:11 08:04-08:50/46 16:30 07:35-07:56/21
5	05:31 05:59-06:18/19 20:39	05:57 20:15	06:29 06:50-07:08/18 19:29	07:01 18:37	06:37 07:12-08:06/54 16:51	07:12 08:04-08:51/47 16:30 07:36-07:57/21
6	05:32 06:00-06:19/19 20:39	05:58 20:14	06:30 06:51-07:08/17 19:27	07:02 18:36	06:38 07:12-08:06/54 16:50	07:13 08:05-08:52/47 16:30 07:37-07:57/20
7	05:32 05:59-06:19/20 20:38	05:59 20:13	06:31 06:52-07:08/16 19:26	07:03 18:34	06:39 07:13-08:06/53 16:49	07:14 08:05-08:52/47 16:30 07:38-07:57/19
8	05:33 05:59-06:20/21 20:38	06:00 20:12	06:32 06:53-07:08/15 19:24	07:04 18:32	06:40 07:13-08:06/53 16:48	07:15 08:05-08:53/48 16:30 07:39-07:57/18
9	05:34 05:59-06:21/22 20:38	06:02 20:10	06:34 06:54-07:08/14 19:22	07:05 18:31	06:42 07:13-08:06/53 16:47	07:15 08:06-08:54/48 16:30 07:40-07:57/17
10	05:34 05:58-06:21/23 20:37	06:03 20:09	06:35 06:55-07:07/12 19:20	07:06 18:29	06:43 07:14-08:06/52 16:46	07:16 08:06-08:54/48 16:30 07:41-07:57/16
11	05:35 05:58-06:21/23 20:37	06:04 20:08	06:36 06:56-07:14/18 19:19	07:07 18:27	06:44 07:14-08:06/52 16:45	07:17 08:05-08:54/49 16:30 07:41-07:57/16
12	05:36 05:59-06:22/23 20:36	06:05 20:06	06:37 06:57-07:15/18 19:17	07:08 18:26	06:45 07:14-08:05/51 16:44	07:18 08:06-08:55/49 16:30 07:42-07:57/15
13	05:36 05:59-06:22/23 20:36	06:06 20:05	06:38 06:58-07:16/18 19:15	07:10 18:24	06:46 07:14-08:04/50 16:43	07:19 08:07-08:56/49 16:30 07:43-07:57/14
14	05:37 06:00-06:22/22 20:35	06:07 20:03	06:39 06:59-07:17/18 19:14	07:11 18:22	06:48 07:16-08:05/49 16:42	07:20 08:07-08:56/49 16:30 07:44-07:58/14
15	05:38 06:01-06:23/22 20:35	06:08 20:02	06:40 07:00-07:17/17 19:12	07:12 18:21	06:49 07:16-08:04/48 16:41	07:20 08:07-08:56/49 16:30 07:45-07:58/13
16	05:39 06:02-06:24/22 20:34	06:09 20:01	06:41 07:01-07:17/16 19:10	07:13 08:38-08:41/3 18:19	06:50 07:17-08:03/46 16:40	07:21 08:08-08:57/49 16:31 07:45-07:58/13
17	05:40 06:03-06:24/21 20:33	06:10 19:59	06:42 07:02-07:17/15 19:08	07:14 08:31-08:48/17 18:18	06:51 07:18-08:04/46 16:39 08:15-08:29/14	07:22 08:08-08:58/50 16:31 07:46-07:58/12
18	05:40 06:03-06:23/20 20:33	06:11 19:58	06:43 07:03-07:16/13 19:07	07:15 08:27-08:51/24 18:16	06:53 07:19-08:03/44 16:38 08:12-08:31/19	07:22 08:08-08:58/50 16:31 07:46-07:59/13
19	05:41 06:04-06:24/20 20:32	06:12 19:56	06:44 07:04-07:16/12 19:05	07:16 08:24-08:54/30 18:15	06:54 07:19-08:02/43 16:37 08:10-08:34/24	07:23 08:09-08:59/50 16:31 07:47-07:59/12
20	05:42 06:05-06:24/19 20:31	06:13 19:55	06:45 07:05-07:15/10 19:03	07:17 08:23-08:56/33 18:13	06:55 07:20-08:02/42 16:37 08:09-08:36/27	07:24 08:10-08:59/49 16:32 07:48-08:00/12
21	05:43 06:06-06:24/18 20:30	06:14 19:53	06:46 07:06-07:13/7 19:01	07:19 08:21-08:58/37 18:12	06:56 07:20-08:01/41 16:36 08:08-08:38/30	07:24 08:10-08:59/49 16:32 07:48-07:59/11
22	05:44 06:07-06:24/17 20:30	06:15 19:52	06:47 07:07-07:11/4 19:00	07:20 08:19-08:59/40 18:10	06:57 07:21-08:00/39 16:35 08:07-08:39/32	07:25 08:11-09:00/49 16:33 07:49-08:00/11
23	05:45 06:08-06:24/16 20:29	06:16 19:50	06:48 07:08-07:09/1 18:58	07:21 08:18-09:00/42 18:09	06:59 07:22-08:00/38 16:35 08:06-08:40/34	07:25 08:11-09:00/49 16:33 07:49-08:00/11
24	05:46 06:09-06:24/15 20:28	06:17 19:49	06:49 18:56	07:22 08:16-09:00/44 18:07	07:00 07:24-07:59/35 16:34 08:05-08:41/36	07:26 08:11-09:00/49 16:34 07:49-08:01/12
25	05:47 06:09-06:23/14 20:27	06:18 19:47	06:50 18:54	06:23 07:16-08:02/46 17:06	07:01 07:25-07:58/33 16:34 08:05-08:43/38	07:26 08:12-09:02/50 16:34 07:50-08:02/12
26	05:48 06:10-06:23/13 20:26	06:19 19:45	06:51 18:53	06:25 07:15-08:03/48 17:04	07:02 07:26-07:57/31 16:33 08:05-08:44/39	07:27 08:12-09:02/50 16:35 07:50-08:02/12
27	05:49 06:11-06:23/12 20:25	06:20 19:44	06:52 18:51	06:26 07:14-08:03/49 17:03	07:03 07:27-07:56/29 16:33 08:04-08:45/41	07:27 08:12-09:02/50 16:36 07:50-08:03/13
28	05:49 06:12-06:22/10 20:24	06:21 19:42	06:53 18:49	06:27 07:14-08:04/50 17:01	07:04 07:28-07:55/27 16:32 08:04-08:45/41	07:27 08:14-09:03/49 16:36 07:51-08:04/13
29	05:50 06:13-06:21/8 20:23	06:22 19:41	06:54 18:47	06:28 07:13-08:05/52 17:00	07:05 07:29-07:55/26 16:32 08:04-08:46/42	07:28 08:14-09:03/49 16:37 07:51-08:04/13
30	05:51 06:14-06:21/7 20:22	06:23 19:39	06:55 18:46	06:29 07:13-08:05/52 16:59	07:06 07:31-07:56/25 16:31 08:04-08:48/44	07:28 08:14-09:03/49 16:38 07:51-08:05/14
31	05:52 06:15-06:19/4 20:21	06:24 19:37		06:31 07:12-08:05/53 16:57		07:28 08:15-09:04/49 16:39 07:51-08:06/15
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	540	2	305	620	1791	1973

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: MT 20 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 09:15-11:29/134 16:40	07:14 09:31-11:10/99 17:15	06:37 17:50	06:45 17:38-18:20/42 19:25 07:39-09:06/87	05:58 17:15-18:32/77 19:58 07:52-08:16/24	05:29 17:42-18:11/29 20:29 06:16-07:42/86
2	07:28 09:16-11:29/133 16:41	07:13 09:32-11:08/96 17:16	06:36 17:51	06:44 17:35-18:22/47 19:26 07:38-09:05/87	05:57 17:16-18:32/76 19:59 07:56-08:13/17	05:28 17:43-18:11/28 20:29 06:16-07:42/86
3	07:28 09:16-11:30/134 16:41	07:12 09:32-11:06/94 17:17	06:34 17:52	06:42 17:33-18:24/51 19:27 07:39-09:05/86	05:56 17:16-18:31/75 20:00	05:28 17:44-18:09/25 20:30 06:16-07:43/87
4	07:29 09:17-11:30/133 16:42	07:11 09:33-11:04/91 17:19	06:32 17:53	06:40 17:31-18:25/54 19:28 07:38-09:04/86	05:54 17:16-18:31/75 20:01	05:27 17:46-18:08/22 20:31 06:15-07:43/88
5	07:29 09:17-11:30/133 16:43	07:10 09:34-11:03/89 17:20	06:31 17:55	06:38 17:28-18:26/58 19:30 07:37-09:03/86	05:53 17:17-18:31/74 20:02 07:01-07:06/5	05:27 17:48-18:07/19 20:31 06:15-07:43/88
6	07:28 09:18-11:30/132 16:44	07:09 09:35-11:01/86 17:21	06:29 17:56	06:37 17:26-18:27/61 19:31 07:37-09:03/86	05:52 17:18-18:31/73 20:04 06:53-07:14/21	05:26 17:51-18:06/15 20:32 06:16-07:44/88
7	07:28 09:18-11:31/133 16:45	07:08 09:37-10:58/81 17:22	06:28 07:29-07:47/18 17:57	06:35 17:25-18:29/64 19:32 07:36-09:02/86	05:51 17:17-18:29/72 20:05 06:50-07:18/28	05:26 17:52-18:03/11 20:33 06:15-07:44/89
8	07:28 09:19-11:31/132 16:46	07:07 09:38-10:56/78 17:24	06:26 07:23-07:52/29 17:58	06:33 17:24-18:29/65 19:33 07:36-09:00/84	05:49 17:18-18:29/71 20:06 06:46-07:20/34	05:26 17:56-18:00/4 20:33 06:15-07:44/89
9	07:28 09:18-11:30/132 16:47	07:05 09:39-10:52/73 17:25	06:24 07:19-07:55/36 17:59	06:32 17:23-18:31/68 19:34 07:36-09:00/84	05:48 17:19-18:29/70 20:07 06:43-07:22/39	05:26 06:15-07:45/90 20:34
10	07:28 09:19-11:31/132 16:48	07:04 09:41-10:48/67 17:26	06:23 07:17-07:58/41 18:00	06:30 17:22-18:31/69 19:35 07:36-08:58/82	05:47 17:19-18:28/69 20:08 06:41-07:24/43	05:25 06:15-07:45/90 20:35
11	07:28 09:20-11:31/131 16:49	07:03 09:43-10:42/59 17:28	06:21 07:14-08:00/46 18:02	06:29 17:20-18:31/71 19:36 07:35-08:57/82	05:46 17:20-18:28/68 20:09 06:40-07:26/46	05:25 06:15-07:45/90 20:35
12	07:27 09:20-11:30/130 16:50	07:02 09:45-10:25/40 17:29	06:19 07:12-08:01/49 18:03	06:27 17:20-18:32/72 19:37 07:36-08:56/80	05:45 17:21-18:27/66 20:10 06:38-07:28/50	05:25 06:15-07:46/91 20:36
13	07:27 09:20-11:30/130 16:52	07:00 09:48-10:22/34 17:30	06:18 07:10-08:03/53 18:04	06:25 17:19-18:33/74 19:38 07:35-08:54/79	05:44 17:22-18:26/64 20:11 06:37-07:29/52	05:25 06:15-07:46/91 20:36
14	07:27 09:20-11:30/130 16:53	06:59 09:51-10:18/27 17:31	06:16 07:08-08:04/56 18:05	06:24 17:17-18:33/76 19:39 07:35-08:52/77	05:43 17:23-18:26/63 20:12 06:35-07:30/55	05:25 06:16-07:46/90 20:37
15	07:26 09:21-11:30/129 16:54	06:58 09:56-10:12/16 17:33	06:14 07:06-08:05/59 18:06	06:22 17:17-18:33/76 19:41 07:36-08:51/75	05:42 17:23-18:25/62 20:13 06:34-07:31/57	05:25 06:16-07:47/91 20:37
16	07:26 09:21-11:29/128 16:55	06:56 17:34 18:07	06:13 07:04-08:06/62 18:07	06:20 17:16-18:33/77 19:42 07:36-08:49/73	05:41 17:24-18:24/60 20:14 06:33-07:32/59	05:25 06:16-07:47/91 20:37
17	07:25 09:22-11:29/127 16:56	06:55 17:35 18:08	06:11 07:03-08:07/64 18:08	06:19 17:16-18:34/78 19:43 07:37-08:48/71	05:40 17:25-18:24/59 20:15 06:31-07:33/62	05:25 06:16-07:47/91 20:38
18	07:25 09:22-11:28/126 16:57	06:54 17:36 18:10	06:09 07:00-08:07/67 18:10	06:17 17:15-18:34/79 19:44 07:36-08:46/70	05:39 17:26-18:23/57 20:16 06:28-07:34/66	05:25 06:16-07:47/91 20:38
19	07:24 09:23-11:28/125 16:58	06:52 17:38 18:11	06:07 06:57-08:08/71 18:11	06:16 17:15-18:34/79 19:45 07:37-08:44/67	05:38 17:27-18:23/56 20:17 06:27-07:36/69	05:25 06:16-07:47/91 20:39
20	07:24 09:23-11:27/124 17:00	06:51 17:39 18:12	06:06 06:56-08:09/73 18:12	06:14 17:15-18:34/79 19:46 07:37-08:41/64	05:37 17:28-18:22/54 20:18 06:26-07:36/70	05:25 06:16-07:47/91 20:39
21	07:23 09:23-11:26/123 17:01	06:49 17:40 18:13	06:04 06:53-08:09/76 18:13	06:13 17:15-18:34/79 19:47 07:39-08:40/61	05:36 17:29-18:21/52 20:19 06:24-07:37/73	05:25 06:16-07:47/91 20:39
22	07:23 09:25-11:26/121 17:02	06:48 17:41 18:14	06:02 06:51-08:09/78 18:14	06:11 17:14-18:34/80 19:48 07:39-08:36/57	05:35 17:30-18:20/50 20:20 06:23-07:37/74	05:26 06:16-07:47/91 20:39
23	07:22 09:25-11:25/120 17:03	06:46 17:43 18:15	06:01 06:49-08:09/80 18:15	06:10 17:15-18:34/79 19:49 07:40-08:34/54	05:34 17:30-18:19/49 20:21 06:21-07:37/76	05:26 06:17-07:48/91 20:39
24	07:21 09:25-11:24/119 17:05	06:45 17:44 18:16	05:59 06:48-08:09/81 18:16	06:08 17:14-18:34/80 19:50 07:40-08:31/51	05:34 17:32-18:19/47 20:22 06:21-07:39/78	05:26 06:17-07:48/91 20:40
25	07:20 09:26-11:22/116 17:06	06:43 17:45 18:17	05:57 06:47-08:09/82 18:17	06:07 17:14-18:34/80 19:52 07:42-08:30/48	05:33 17:33-18:18/45 20:23 06:20-07:39/79	05:26 06:17-07:48/91 20:40
26	07:20 09:26-11:20/114 17:07	06:42 17:46 18:18	05:55 06:45-08:09/84 18:18	06:05 17:15-18:34/79 19:53 07:43-08:28/45	05:32 17:34-18:17/43 20:24 06:19-07:39/80	05:27 06:18-07:49/91 20:40
27	07:19 09:27-11:19/112 17:08	06:40 17:47 18:20	05:54 06:44-08:08/84 18:20	06:04 17:14-18:33/79 19:54 07:44-08:26/42	05:31 17:36-18:16/40 20:24 06:19-07:40/81	05:27 06:18-07:49/91 20:40
28	07:18 09:28-11:17/109 17:10	06:39 17:49 18:21	05:52 06:43-08:08/85 18:21	06:02 17:15-18:33/78 19:55 07:46-08:24/38	05:31 17:36-18:15/39 20:25 06:18-07:40/82	05:27 06:18-07:48/90 20:40
29	07:17 09:29-11:15/106 17:11	06:38 17:49 18:22	06:50 17:51-18:09/18 19:22 07:42-09:08/86	06:01 17:14-18:32/78 19:56 07:47-08:21/34	05:30 17:38-18:15/37 20:26 06:18-07:41/83	05:28 06:19-07:49/90 20:40
30	07:16 09:29-11:12/103 17:12	06:37 17:49 18:23	06:49 17:45-18:13/28 19:23 07:41-09:07/86	06:00 17:15-18:32/77 19:57 07:49-08:19/30	05:30 17:39-18:13/34 20:27 06:17-07:41/84	05:28 06:18-07:49/91 20:40
31	07:15 09:30-11:11/101 17:13	06:36 17:49 18:24	06:47 17:41-18:17/36 19:24 07:41-09:07/86	05:29 17:41-18:13/32 20:28 06:17-07:42/85	05:29 17:41-18:13/32 20:28 06:17-07:42/85	
Potential sun hours	295	296	369	400	451	455
Sum of minutes with flicker	3852	1030	1714	4181	3481	2850

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: MT 20 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 1 row of values: 4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

Table with 13 columns (N, NNE, ENE, E, ESE, SSE, S, SSW, WSW, W, WNW, NNW, Sum) and 1 row of values: 981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

Main shadow calculation table with columns for months (July-December) and rows for each day (1-31) showing sun rise/set times and minutes with flicker.

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

Matrix table with 2 columns (Day in month, Sun rise/set) and 2 rows (First time, Last time) with flicker/Minutes with flicker.

SHADOW - Calendar per WTG

WTG: MT 21 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 1 row of values: 4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

Table with 13 columns (N, NNE, ENE, E, ESE, SSE, S, SSW, WSW, W, WNW, NNW, Sum) and 1 row of values: 981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

Main shadow calculation table with columns for months (January to June) and rows for each day of the month, including start/end times and potential sun hours.

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

Matrix defining columns for Day in month, Sun rise/set times, and First/Last times with flicker/Minutes with flicker.

SHADOW - Calendar per WTG

WTG: MT 21 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 18:42-19:43/61 20:40	05:53 18:36-19:37/61 20:20	06:25 18:02-18:58/56 19:36	06:56 08:52-09:34/42 18:44	06:32 07:37-08:44/67 16:56	07:08 14:49-15:13/24 16:31 09:45-10:13/28
2	05:29 18:42-19:43/61 20:40	05:54 18:34-19:36/62 20:19	06:26 18:01-18:55/54 19:34	06:58 08:50-09:35/45 18:42	06:33 07:37-08:43/66 16:55	07:09 14:48-15:14/26 16:31 09:44-10:14/30
3	05:30 18:42-19:43/61 20:39	05:55 18:33-19:35/62 20:18	06:27 17:59-18:53/54 19:32	06:59 08:48-09:37/49 18:41	06:34 07:37-08:42/65 16:54	07:10 14:48-15:15/27 16:30 09:43-10:16/33
4	05:30 18:42-19:43/61 20:39	05:56 18:32-19:33/61 20:17	06:28 17:57-18:49/52 19:31	07:00 08:46-09:38/52 18:39	06:36 07:39-08:42/63 16:52	07:11 14:47-15:16/29 16:30 09:43-10:18/35
5	05:31 18:43-19:44/61 20:39	05:57 18:31-19:32/61 20:15	06:29 17:56-18:34/38 19:29 18:36-18:44/8	07:01 08:44-09:40/56 18:37	06:37 07:40-08:41/61 16:51	07:12 14:47-15:16/29 16:30 09:42-10:19/37
6	05:32 18:43-19:44/61 20:39	05:58 18:29-19:30/61 20:14	06:30 17:55-18:34/39 19:27	07:02 08:43-09:41/58 18:36	06:38 07:40-08:40/60 16:50	07:13 14:47-15:17/30 16:30 09:42-10:21/39
7	05:32 18:43-19:44/61 20:38	05:59 18:28-19:28/60 20:13	06:31 17:54-18:34/40 19:26	07:03 08:41-09:42/61 18:34	06:39 07:42-08:40/58 16:49	07:14 14:47-15:18/31 16:30 09:41-10:22/41
8	05:33 18:43-19:44/61 20:38	06:00 18:27-19:28/61 20:12	06:33 17:53-18:34/41 19:24	07:04 08:41-09:43/62 18:32	06:40 07:43-08:39/56 16:48	07:15 14:47-15:19/32 16:30 09:41-10:23/42
9	05:34 18:43-19:44/61 20:38	06:02 18:27-19:28/61 20:10	06:34 17:52-18:34/42 19:22	07:05 08:40-09:44/64 18:31	06:42 07:44-08:37/53 16:47	07:16 14:47-15:20/33 16:30 09:41-10:24/43
10	05:34 18:43-19:44/61 20:37	06:03 18:26-19:28/62 20:09	06:35 17:51-18:34/43 19:21	07:06 08:39-09:45/66 18:29	06:43 07:46-08:37/51 16:46	07:16 14:48-15:21/33 16:30 09:41-10:25/44
11	05:35 18:44-19:44/60 20:37	06:04 18:25-19:28/63 20:08	06:36 17:50-18:34/44 19:19	07:07 08:38-09:45/67 18:27	06:44 07:47-08:35/48 16:45	07:17 14:47-15:20/33 16:30 09:40-10:23/35
12	05:36 18:44-19:45/61 20:36	06:05 18:24-19:28/64 20:06	06:37 17:49-18:34/45 19:17	07:08 08:37-09:46/69 18:26	06:45 07:48-08:34/46 16:44	07:18 14:47-15:21/34 16:30 09:41-10:26/45
13	05:36 18:44-19:44/60 20:36	06:06 18:24-19:27/63 20:05	06:38 17:49-18:33/44 19:15	07:10 08:36-09:46/70 18:24	06:47 07:51-08:33/42 16:43	07:19 14:48-15:22/34 16:30 09:41-10:28/47
14	05:37 18:44-19:44/60 20:35	06:07 18:23-19:27/64 20:04	06:39 17:48-18:33/45 19:14	07:11 08:35-09:46/71 18:22	06:48 07:52-08:31/39 16:42	07:20 14:48-15:23/35 16:30 09:41-10:29/48
15	05:38 18:45-19:45/60 20:35	06:08 18:23-19:26/63 20:02	06:40 17:48-18:32/44 19:12	07:12 08:36-09:47/71 18:21	06:49 07:54-08:29/35 16:41	07:21 14:49-15:24/35 16:30 09:42-10:30/48
16	05:39 18:45-19:45/60 20:34	06:09 18:22-19:25/63 20:01	06:41 17:47-18:31/44 19:10	07:13 08:35-09:48/73 18:19	06:50 07:56-08:26/30 16:40	07:21 14:48-15:24/36 16:31 09:41-10:30/49
17	05:40 18:45-19:44/59 20:33	06:10 18:22-19:24/62 19:59	06:42 17:47-18:31/44 19:08	07:14 08:34-09:48/74 18:18	06:51 08:00-08:25/25 16:39	07:22 14:49-15:24/35 16:31 09:42-10:31/49
18	05:40 18:45-19:44/59 20:33	06:11 18:21-19:23/62 19:58	06:43 17:47-18:30/43 19:07	07:15 08:34-09:47/73 18:16	06:53 08:03-08:21/18 16:38	07:23 14:50-15:25/35 16:31 09:43-10:32/49
19	05:41 18:46-19:44/58 20:32	06:12 18:21-19:22/61 19:56	06:44 17:47-18:28/41 19:05	07:16 08:33-09:47/74 18:15	06:54 08:09-08:15/6 16:37	07:23 14:50-15:25/35 16:31 09:43-10:32/49
20	05:42 18:46-19:44/58 20:31	06:13 18:21-19:20/59 19:55	06:45 17:47-18:27/40 19:03	07:18 08:34-09:48/74 18:13	06:55 14:52-15:27/35 16:37	07:24 14:51-15:26/35 16:32 09:43-10:33/50
21	05:43 18:47-19:44/57 20:30	06:14 18:20-19:18/58 19:53	06:46 17:48-18:25/37 19:01	07:19 08:34-09:48/74 18:12	06:56 16:36 16:36	07:24 14:51-15:26/35 16:32 09:43-10:33/50
22	05:44 18:47-19:44/57 20:30	06:15 18:20-19:17/57 19:52	06:47 17:48-18:24/36 19:00	07:20 08:33-09:48/75 18:10	06:57 16:35 16:35	07:25 14:52-15:27/35 16:33 09:44-10:34/50
23	05:45 18:48-19:43/55 20:29	06:16 18:20-19:14/54 19:50	06:48 17:49-18:22/33 18:58	07:21 08:33-09:47/74 18:09	06:59 16:35 16:35	07:25 14:52-15:27/35 16:33 09:44-10:34/50
24	05:46 18:47-19:42/55 20:28	06:17 18:20-19:12/52 19:49	06:49 17:50-18:20/30 18:56	07:22 08:34-09:48/74 18:07	07:00 16:34 16:34	07:26 14:52-15:27/35 16:34 09:45-10:35/50
25	05:47 18:48-19:42/54 20:27	06:18 18:20-19:08/48 19:47	06:50 17:52-18:18/26 18:54	06:23 07:34-08:47/73 17:06	07:01 16:34 16:34	07:26 14:53-15:28/35 16:34 09:46-10:35/49
26	05:48 18:48-19:41/53 20:26	06:19 18:20-19:06/46 19:46	06:51 17:54-18:15/21 18:53	06:25 07:34-08:47/73 17:04	07:02 14:55-15:03/8 16:33	07:27 14:53-15:28/35 16:35 09:46-10:35/49
27	05:49 18:49-19:41/52 20:25	06:20 18:20-19:05/45 19:44	06:52 17:56-18:11/15 18:51 09:06-09:21/15	06:26 07:34-08:46/72 17:03	07:03 14:52-15:06/14 16:33	07:27 14:53-15:29/36 16:36 09:46-10:35/49
28	05:49 18:49-19:40/51 20:24	06:21 18:21-19:04/43 19:42	06:53 09:01-09:26/25 18:49	06:27 07:35-08:47/72 17:01	07:04 14:50-15:08/18 16:32 09:51-10:03/12	07:27 14:55-15:30/35 16:36 09:48-10:36/48
29	05:50 18:43-19:40/57 20:23	06:22 18:12-19:02/50 19:41	06:54 08:57-09:29/32 18:47	06:28 07:35-08:46/71 17:00	07:05 14:49-15:09/20 16:32 09:48-10:07/19	07:28 14:55-15:30/35 16:37 09:48-10:36/48
30	05:51 18:40-19:39/59 20:22	06:23 18:08-19:01/53 19:39	06:55 08:54-09:32/38 18:46	06:29 07:35-08:45/70 16:59	07:07 14:49-15:11/22 16:31 09:47-10:10/23	07:28 14:56-15:30/34 16:38 09:49-10:36/47
31	05:52 18:38-19:38/60 20:21	06:24 18:05-18:59/54 19:37		06:31 07:35-08:44/69 16:57		07:28 14:56-15:30/34 16:39 09:49-10:36/47
Potential sun hours	462	429	375	344	296	285
Sum of minutes with flicker	1815	1796	1209	2068	1025	2413

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: MT 22 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 16:40	07:14 16:07-16:39/32 17:15	06:37 16:17-17:12/55 17:50	06:45 19:25	05:58 18:19-19:11/52 19:58	05:29 06:11-07:04/53 20:29
2	07:28 16:41	07:13 16:06-16:39/33 17:16	06:36 16:18-17:12/54 17:51	06:44 19:26	05:57 18:19-19:12/53 19:59	05:28 06:11-07:04/53 20:29
3	07:28 16:41	07:12 16:06-16:39/33 17:17	06:34 16:17-17:12/55 17:52	06:42 19:27	05:56 18:18-19:11/53 20:00	05:28 06:11-07:05/54 20:30
4	07:29 16:42	07:11 16:06-16:42/36 17:19	06:32 16:19-17:12/53 17:53	06:40 19:28	05:54 18:19-19:11/52 20:01	05:27 06:11-07:05/54 20:31
5	07:29 16:43	07:10 16:07-16:45/38 17:20	06:31 16:19-17:11/52 17:55	06:38 19:30	05:53 18:19-19:11/52 20:02	05:27 06:11-07:05/54 20:31
6	07:28 16:44	07:09 16:07-16:47/40 17:21	06:29 16:19-17:09/50 17:56	06:37 19:31	05:52 18:19-19:11/52 20:04	05:27 06:12-07:06/54 20:32
7	07:28 16:45	07:08 16:07-16:49/42 17:22	06:28 16:21-17:09/48 17:57	06:35 19:32	05:51 18:19-19:11/52 20:05	05:26 06:11-07:05/54 20:33
8	07:28 16:46	07:07 16:08-16:50/42 17:24	06:26 16:22-17:07/45 17:58	06:33 19:33	05:49 06:34-06:38/4 20:06 18:19-19:10/51	05:26 06:11-07:05/54 20:33
9	07:28 16:47	07:05 16:08-16:50/42 17:25	06:24 16:23-17:05/42 17:59	06:32 19:34	05:48 06:28-06:44/16 20:07 18:19-19:10/51	05:26 06:12-07:06/54 20:34
10	07:28 16:48	07:04 16:09-16:52/43 17:26	06:23 16:25-17:04/39 18:00	06:30 19:35	05:47 06:25-06:47/22 20:08 18:20-19:09/49	05:25 06:12-07:06/54 20:35
11	07:28 16:49	07:03 16:10-16:53/43 17:28	06:21 16:27-17:01/34 18:02	06:29 19:36	05:46 06:23-06:50/27 20:09 18:20-19:09/49	05:25 06:12-07:07/55 20:35
12	07:27 16:50	07:02 16:10-16:52/42 17:29	06:19 16:49-16:56/7 18:03 16:30-16:44/14	06:27 19:37	05:45 06:21-06:51/30 20:10 18:21-19:09/48	05:25 06:13-07:07/54 20:36
13	07:27 16:52	07:00 16:12-16:53/41 17:30	06:18 18:04	06:25 19:38	05:44 06:20-06:53/33 20:11 18:21-19:08/47	05:25 06:13-07:07/54 20:36
14	07:27 16:53	06:59 16:13-16:54/41 17:31	06:16 18:05	06:24 18:44-18:52/8 19:39	05:43 06:19-06:54/35 20:12 18:22-19:08/46	05:25 06:13-07:07/54 20:37
15	07:26 16:54	06:58 16:14-16:55/41 17:33	06:14 18:06	06:22 18:38-18:58/20 19:41	05:42 06:17-06:55/38 20:13 18:22-19:07/45	05:25 06:13-07:07/54 20:37
16	07:26 16:55	06:56 16:16-16:57/41 17:34	06:13 18:07	06:20 18:35-19:00/25 19:42	05:41 06:16-06:56/40 20:14 18:23-19:06/43	05:25 06:13-07:08/55 20:37
17	07:25 16:56	06:55 16:17-16:59/42 17:35	06:11 18:08	06:19 18:33-19:03/30 19:43	05:40 06:15-06:57/42 20:15 18:23-19:06/43	05:25 06:14-07:08/54 20:38
18	07:25 16:57	06:54 16:16-17:03/47 17:36	06:09 18:10	06:17 18:30-19:04/34 19:44	05:39 06:14-06:57/43 20:16 18:24-19:05/41	05:25 06:14-07:08/54 20:38
19	07:24 16:59	06:52 16:17-17:06/49 17:38	06:07 18:11	06:16 18:29-19:06/37 19:45	05:38 06:15-06:59/44 20:17 18:26-19:05/39	05:25 06:14-07:08/54 20:38
20	07:24 17:00	06:51 16:17-17:07/50 17:39	06:06 18:12	06:14 18:27-19:06/39 19:46	05:37 06:14-06:59/45 20:18 18:26-19:04/38	05:25 06:14-07:08/54 20:39
21	07:23 17:01	16:15-16:24/9 06:49 16:17-17:09/52 17:40	06:04 18:13	06:13 18:26-19:08/42 19:47	05:36 06:13-07:00/47 20:19 18:27-19:03/36	05:25 06:14-07:08/54 20:39
22	07:23 17:02	16:14-16:28/14 06:48 16:18-17:10/52 17:41	06:02 18:14	06:11 18:24-19:08/44 19:48	05:35 06:12-07:00/48 20:20 18:28-19:02/34	05:26 06:15-07:09/54 20:39
23	07:22 17:03	16:12-16:30/18 06:46 16:18-17:11/53 17:43	06:01 18:15	06:10 18:24-19:09/45 19:49	05:34 06:13-07:01/48 20:21 18:28-19:01/33	05:26 06:15-07:09/54 20:39
24	07:21 17:05	16:11-16:31/20 06:45 16:17-17:11/54 17:44	05:59 18:16	06:08 18:22-19:09/47 19:50	05:34 06:12-07:02/50 20:22 18:30-19:01/31	05:26 06:15-07:09/54 20:40
25	07:20 17:06	16:10-16:32/22 06:43 16:17-17:12/55 17:45	05:57 18:17	06:07 18:22-19:10/48 19:52	05:33 06:12-07:02/50 20:23 18:31-19:00/29	05:26 06:15-07:09/54 20:40
26	07:20 17:07	16:09-16:34/25 06:42 16:17-17:12/55 17:46	05:55 18:19	06:05 18:21-19:11/50 19:53	05:32 06:12-07:03/51 20:24 18:32-18:58/26	05:27 06:15-07:10/55 20:40
27	07:19 17:08	16:08-16:35/27 06:40 16:17-17:13/56 17:47	05:54 18:20	06:04 18:20-19:10/50 19:54	05:31 06:11-07:03/52 20:24 18:34-18:58/24	05:27 06:15-07:10/55 20:40
28	07:18 17:10	16:07-16:36/29 06:39 16:17-17:13/56 17:49	05:52 18:21	06:02 18:20-19:11/51 19:55	05:31 06:11-07:03/52 20:25 18:35-18:56/21	05:28 06:16-07:10/54 20:40
29	07:17 17:11	16:08-16:37/29 06:37 16:17-17:13/56 17:49	05:50 18:22	06:01 18:19-19:11/52 19:56	05:30 06:11-07:03/52 20:26 18:37-18:55/18	05:28 06:16-07:10/54 20:40
30	07:16 17:12	16:08-16:38/30 06:35 16:17-17:13/56 17:49	05:49 18:23	06:00 18:19-19:11/52 19:57	05:30 06:11-07:03/52 20:27 18:39-18:53/14	05:28 06:16-07:10/54 20:40
31	07:15 17:13	16:07-16:39/32 06:33 16:17-17:13/56 17:49	05:47 18:24	05:29 19:58	05:29 06:11-07:04/53 20:28 18:42-18:51/9	05:29 06:11-07:04/53 20:40
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	255	1251	548	674	2205	1622

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: MT 22 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 06:16-07:11/55	05:53 06:33-07:01/28	06:25 06:56 17:12-17:21/9	06:32 15:38-16:21/43	07:08	
	20:40	20:20 18:31-19:19/48	19:36 18:44	16:56	16:31	
2	05:29 06:16-07:10/54	05:54 06:35-06:59/24	06:26 06:58 17:07-17:38/31	06:33 15:38-16:20/42	07:09	
	20:40	20:19 18:30-19:20/50	19:34 18:42	16:55	16:31	
3	05:30 06:17-07:11/54	05:55 06:37-06:57/20	06:27 06:59 17:04-17:41/37	06:34 15:37-16:19/42	07:10	
	20:39	20:18 18:30-19:20/50	19:32 18:41	16:54	16:30	
4	05:30 06:17-07:11/54	05:56 06:40-06:53/13	06:28 07:00 17:01-17:42/41	06:36 15:37-16:18/41	07:11	
	20:39	20:17 18:30-19:20/50	19:31 18:39	16:52	16:30	
5	05:31 06:17-07:11/54	05:57 18:29-19:20/51	06:29 07:01 16:59-17:43/44	06:37 15:37-16:16/39	07:12	
	20:39	20:15	19:29 18:37	16:51	16:30	
6	05:32 06:18-07:12/54	05:58 18:29-19:21/52	06:30 07:02 16:57-17:44/47	06:38 15:36-16:14/38	07:13	
	20:39	20:14	19:27 18:36	16:50	16:30	
7	05:32 06:17-07:11/54	05:59 18:29-19:21/52	06:32 07:03 16:56-17:45/49	06:39 15:37-16:13/36	07:14	
	20:38	20:13	19:26 18:34	16:49	16:30	
8	05:33 06:18-07:12/54	06:01 18:28-19:21/53	06:33 07:04 16:54-17:45/51	06:40 15:37-16:10/33	07:15	
	20:38	20:12	19:24 18:32	16:48	16:30	
9	05:34 06:19-07:12/53	06:02 18:28-19:21/53	06:34 07:05 16:54-17:46/52	06:42 15:37-16:10/33	07:16	
	20:38	20:10	19:22 18:31	16:47	16:30	
10	05:34 06:18-07:12/54	06:03 18:28-19:20/52	06:35 07:06 16:53-17:46/53	06:43 15:38-16:10/32	07:16	
	20:37	20:09	19:21 18:29	16:46	16:30	
11	05:35 06:19-07:12/53	06:04 18:28-19:20/52	06:36 07:07 16:52-17:46/54	06:44 15:38-16:10/32	07:17	
	20:37	20:08	19:19 18:27	16:45	16:30	
12	05:36 06:19-07:12/53	06:05 18:28-19:20/52	06:37 07:08 16:51-17:46/55	06:45 15:39-16:09/30	07:18	
	20:36 18:52-18:57/5	20:06	19:17 18:26	16:44	16:30	
13	05:36 06:19-07:12/53	06:06 18:28-19:20/52	06:38 07:10 16:50-17:45/55	06:47 15:39-16:08/29	07:19	
	20:36 18:48-19:00/12	20:05	19:15 18:24	16:43	16:30	
14	05:37 06:20-07:12/52	06:07 18:28-19:19/51	06:39 07:11 16:49-17:45/56	06:48 15:40-16:09/29	07:20	
	20:35 18:47-19:03/16	20:04	19:14 18:22	16:42	16:30	
15	05:38 06:20-07:12/52	06:08 18:28-19:19/51	06:40 07:12 16:50-17:45/55	06:49 15:41-16:08/27	07:20	
	20:35 18:45-19:05/20	20:02	19:12 18:21	16:41	16:30	
16	05:39 06:21-07:12/51	06:09 18:28-19:18/50	06:41 07:13 16:49-17:45/56	06:50 15:42-16:07/25	07:21	
	20:34 18:44-19:07/23	20:01	19:10 18:19	16:40	16:31	
17	05:40 06:21-07:12/51	06:10 18:28-19:17/49	06:42 07:14 16:49-17:44/55	06:51 15:44-16:06/22	07:22	
	20:33 18:42-19:07/25	19:59	19:08 18:18	16:39	16:31	
18	05:40 06:21-07:11/50	06:11 18:29-19:17/48	06:43 07:15 16:49-17:43/54	06:53 15:45-16:05/20	07:23	
	20:33 18:41-19:09/28	19:58	19:07 18:16	16:38	16:31	
19	05:41 06:21-07:11/50	06:12 18:29-19:16/47	06:44 07:16 16:49-17:41/52	06:54 15:46-16:04/18	07:23	
	20:32 18:40-19:10/30	19:56	19:05 18:15	16:38	16:32	
20	05:42 06:22-07:11/49	06:13 18:29-19:15/46	06:45 07:18 16:49-17:41/52	06:55 15:49-16:03/14	07:24	
	20:31 18:39-19:11/32	19:55	19:03 18:13	16:37	16:32	
21	05:43 06:23-07:11/48	06:14 18:30-19:14/44	06:46 07:19 16:48-17:39/51	06:56 15:51-16:00/9	07:24	
	20:30 18:39-19:12/33	19:53	19:01 18:12	16:36	16:32	
22	05:44 06:23-07:11/48	06:15 18:30-19:11/41	06:47 07:20 16:47-17:37/50	06:57	07:25	
	20:30 18:38-19:13/35	19:52	19:00 18:10	16:35	16:33	
23	05:45 06:24-07:10/46	06:16 18:31-19:10/39	06:48 07:21 16:46-17:35/49	06:59	07:25	
	20:29 18:37-19:14/37	19:50	18:58 18:09	16:35	16:33	
24	05:46 06:25-07:10/45	06:17 18:32-19:08/36	06:49 07:22 16:46-17:32/46	07:00	07:26	
	20:28 18:35-19:14/39	19:49	18:56 18:07	16:34	16:34	
25	05:47 06:25-07:08/43	06:18 18:33-19:07/34	06:50 06:23 15:46-16:28/42	07:01	07:26	
	20:27 18:35-19:15/40	19:47	18:54 17:06	16:34	16:34	
26	05:48 06:25-07:08/43	06:19 18:35-19:04/29	06:51 06:25 15:46-16:26/40	07:02	07:27	
	20:26 18:34-19:16/42	19:46	18:53 17:04	16:33	16:35	
27	05:49 06:26-07:07/41	06:20 18:37-19:02/25	06:52 06:26 15:44-16:25/41	07:03	07:27	
	20:25 18:34-19:17/43	19:44	18:51 17:03	16:33	16:36	
28	05:50 06:27-07:06/39	06:21 18:40-18:58/18	06:53 06:27 15:43-16:24/41	07:04	07:27	
	20:24 18:33-19:17/44	19:42	18:49 17:02	16:32	16:36	
29	05:50 06:28-07:05/37	06:22 18:45-18:52/7	06:54 06:28 15:41-16:23/42	07:05	07:28	
	20:23 18:32-19:18/46	19:41	18:47 17:00	16:32	16:37	
30	05:51 06:30-07:04/34	06:23 18:32-19:18/46	06:55 06:29 15:40-16:22/42	07:07	07:28	
	20:22 18:32-19:18/46	19:39	18:46 16:59	16:31	16:38	
31	05:52 06:31-07:03/32	06:24 18:31-19:19/48	06:56 06:31 15:38-16:21/43	07:08	07:28	
	20:21 18:31-19:19/48	19:37	16:58	16:39	16:39	
Potential sun hours	462	429	375	344	296	285
Sum of minutes with flicker	2154	1367	0	1445	634	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: MT 23 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 12:40-14:12/92 16:40	07:14 13:07-14:12/65	06:37 07:10-07:54/44 17:50	06:45 19:25	05:58 07:00-07:13/13	05:29 20:29
2	07:28 12:41-14:12/91 16:41	07:13 13:08-14:10/62 17:16 07:46-08:36/50	06:36 07:10-07:55/45 17:51	06:44 19:26	05:57 19:59	05:28 20:29
3	07:28 12:41-14:13/92 16:41	07:12 13:10-14:09/59 17:17 07:44-08:35/51	06:34 07:06-07:55/49 17:52	06:42 19:27	05:56 20:00	05:28 20:30
4	07:29 12:42-14:13/91 16:42	07:11 13:13-14:08/55 17:19 07:44-08:35/51	06:32 07:04-07:56/52 17:53	06:40 19:28	05:54 20:01	05:27 20:31
5	07:28 12:42-14:13/91 16:43	07:10 13:15-14:06/51 17:20 07:44-08:35/51	06:31 07:01-07:56/55 17:55	06:38 07:05-07:20/15 19:30	05:53 20:02	05:27 20:31
6	07:28 12:43-14:14/91 16:44	07:09 13:18-14:04/46 17:21 07:44-08:35/51	06:29 06:59-07:55/56 17:56	06:37 07:03-07:23/20 19:31	05:52 20:04	05:26 20:32
7	07:28 12:44-14:14/90 16:45	07:08 13:22-14:02/40 17:22 07:44-08:36/52	06:28 06:58-07:56/58 17:57	06:35 07:00-07:25/25 19:32	05:51 20:05	05:26 20:33
8	07:28 12:44-14:15/91 16:46	07:07 13:26-13:59/33 17:24 07:44-08:35/51	06:26 06:56-07:55/59 17:58	06:33 06:58-07:26/28 19:33	05:49 20:06	05:26 20:33
9	07:28 12:44-14:15/91 16:47	07:05 13:31-13:54/23 17:25 07:43-08:34/51	06:24 06:54-07:54/60 17:59	06:32 06:57-07:28/31 19:34	05:48 20:07	05:26 20:34
10	07:28 12:45-14:15/90 16:48	07:04 07:44-08:34/50 17:26	06:23 06:54-07:54/60 18:00	06:30 06:55-07:28/33 19:35	05:47 20:08	05:25 20:35
11	07:28 12:46-14:16/90 16:49	07:03 07:44-08:34/50 17:28	06:21 06:53-07:53/60 18:02	06:29 06:53-07:28/35 19:36	05:46 20:09	05:25 20:35
12	07:27 12:46-14:15/89 16:50	07:02 07:43-08:32/49 17:29	06:19 06:52-07:52/60 18:03	06:27 06:53-07:29/36 19:37	05:45 20:10	05:25 20:36
13	07:27 12:47-14:16/89 16:52	07:00 07:44-08:32/48 17:30	06:18 06:52-07:52/60 18:04	06:25 06:52-07:29/37 19:38	05:44 20:11	05:25 20:36
14	07:27 12:47-14:16/89 16:53 08:04-08:12/8	06:59 07:45-08:31/46 17:31	06:16 06:51-07:50/59 18:05	06:24 06:52-07:30/38 19:39	05:43 20:12	05:25 20:37
15	07:26 12:48-14:16/88 16:54 08:02-08:16/14	06:58 07:44-08:29/45 17:33	06:14 06:50-07:49/59 18:06	06:22 06:51-07:29/38 19:41	05:42 20:13	05:25 20:37
16	07:26 12:49-14:16/87 16:55 08:00-08:18/18	06:56 07:45-08:28/43 17:34	06:13 06:49-07:47/58 18:07	06:20 06:50-07:29/39 19:42	05:41 20:14	05:25 20:37
17	07:25 12:50-14:17/87 16:56 07:59-08:20/21	06:55 07:46-08:26/40 17:35	06:11 06:50-07:46/56 18:08	06:19 06:50-07:29/39 19:43	05:40 20:15	05:25 20:38
18	07:25 12:50-14:16/86 16:57 07:58-08:22/24	06:54 07:47-08:23/36 17:36	06:09 06:49-07:44/55 18:10	06:17 06:49-07:28/39 19:44	05:39 20:16	05:25 20:38
19	07:24 12:52-14:17/85 16:58 07:57-08:24/27	06:52 07:48-08:22/34 17:38	06:07 06:49-07:42/53 18:11	06:16 06:50-07:28/38 19:45	05:38 20:17	05:25 20:38
20	07:24 12:52-14:16/84 17:00 07:56-08:25/29	06:51 07:27-07:41/14 17:39 07:48-08:20/32	06:06 06:50-07:40/50 18:12	06:14 06:49-07:27/38 19:46	05:37 20:18	05:25 20:39
21	07:23 12:53-14:16/83 17:01 07:55-08:26/31	06:49 07:23-07:45/22 17:40 07:50-08:19/29	06:04 06:50-07:36/46 18:13	06:13 06:50-07:27/37 19:47	05:36 20:19	05:25 20:39
22	07:22 12:54-14:17/83 17:02 07:55-08:28/33	06:48 07:20-07:47/27 17:41 07:51-08:16/25	06:02 06:50-07:30/40 18:14	06:11 06:49-07:26/37 19:48	05:35 20:20	05:26 20:39
23	07:22 12:55-14:16/81 17:03 07:55-08:29/34	06:46 07:19-07:49/30 17:43 07:54-08:14/20	06:01 06:50-07:29/39 18:15	06:10 06:50-07:26/36 19:49	05:34 20:21	05:26 20:39
24	07:21 12:56-14:16/80 17:05 07:54-08:30/36	06:45 07:16-07:50/34 17:44 07:57-08:10/13	05:59 06:51-07:28/37 18:16	06:08 06:50-07:24/34 19:50	05:34 20:22	05:26 20:40
25	07:20 12:57-14:15/78 17:06 07:53-08:30/37	06:43 07:15-07:52/37 17:45	05:57 06:52-07:26/34 18:17	06:07 06:51-07:24/33 19:52	05:33 20:23	05:26 20:40
26	07:20 12:58-14:15/77 17:07 07:51-08:31/40	06:42 07:14-07:53/39 17:46	05:55 06:53-07:24/31 18:18	06:05 06:52-07:23/31 19:53	05:32 20:24	05:27 20:40
27	07:19 12:59-14:14/75 17:08 07:50-08:32/42	06:40 07:13-07:54/41 17:47	05:54 06:54-07:22/28 18:20	06:04 06:53-07:21/28 19:54	05:31 20:24	05:27 20:40
28	07:18 13:01-14:15/74 17:10 07:49-08:33/44	06:39 07:12-07:54/42 17:49	05:52 06:56-07:20/24 18:21	06:02 06:54-07:20/26 19:55	05:31 20:25	05:27 20:40
29	07:17 13:02-14:14/72 17:11 07:48-08:34/46		06:50 07:58-08:17/19 19:22	06:01 06:56-07:18/22 19:56	05:30 20:26	05:28 20:40
30	07:16 13:04-14:14/70 17:12 07:48-08:34/46		06:49 08:02-08:11/9 19:23	06:00 06:57-07:15/18 19:57	05:30 20:27	05:28 20:40
31	07:15 13:05-14:13/68 17:13 07:47-08:35/48		06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	451	455
Sum of minutes with flicker	3203	1737	1415	831	13	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: MT 23 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:40	05:53 20:20	06:25 06:52-07:27/35 19:36	06:56 07:31-08:31/60 18:44	06:32 13:08-13:18/10 16:56 07:13-08:04/51	07:08 12:28-13:58/90 16:31
2	05:29 20:40	05:54 20:19	06:26 06:53-07:26/33 19:34	06:58 07:31-08:32/61 18:42	06:33 12:59-13:25/26 16:55 07:13-08:04/51	07:09 12:28-13:58/90 16:31
3	05:30 20:39	05:55 20:18	06:27 06:54-07:25/31 19:32	06:59 07:31-08:32/61 18:41	06:34 12:54-13:29/35 16:54 07:13-08:04/51	07:10 12:28-13:59/91 16:30
4	05:30 20:39	05:56 20:17	06:28 06:55-07:23/28 19:31	07:00 07:32-08:32/60 18:39	06:35 12:51-13:32/41 16:52 07:14-08:05/51	07:11 12:29-13:59/90 16:30
5	05:31 20:39	05:57 20:15	06:29 06:56-07:21/25 19:29	07:01 07:32-08:32/60 18:37	06:37 12:48-13:34/46 16:51 07:14-08:05/51	07:12 12:29-14:00/91 16:30
6	05:32 20:39	05:58 20:14	06:30 06:58-07:19/21 19:27	07:02 07:33-08:31/58 18:36	06:38 12:45-13:36/51 16:50 07:14-08:05/51	07:13 12:29-14:00/91 16:30
7	05:32 20:38	05:59 20:13	06:31 07:00-07:15/15 19:26	07:03 07:34-08:31/57 18:34	06:39 12:43-13:39/56 16:49 07:15-08:06/51	07:14 12:29-14:00/91 16:30
8	05:33 20:38	06:00 20:12	06:32 07:06-07:09/3 19:24	07:04 07:36-08:31/55 18:32	06:40 12:41-13:40/59 16:48 07:15-08:06/51	07:15 12:30-14:01/91 16:30
9	05:33 20:38	06:01 20:10	06:34 19:22	07:05 07:37-08:31/54 18:31	06:42 12:39-13:41/62 16:47 07:16-08:06/50	07:16 12:30-14:02/92 16:30
10	05:34 20:37	06:03 20:09	06:35 19:21	07:06 07:39-08:30/51 18:29	06:43 12:38-13:43/65 16:46 07:17-08:06/49	07:16 12:31-14:02/91 16:30
11	05:35 20:37	06:04 07:13-07:18/5 20:08	06:36 19:19	07:07 07:42-08:29/47 18:27	06:44 12:36-13:44/68 16:45 07:18-08:06/48	07:17 12:30-14:02/92 16:30
12	05:36 20:36	06:05 07:08-07:22/14 20:06	06:37 19:17	07:08 07:44-08:29/45 18:26	06:45 12:35-13:44/69 16:44 07:19-08:05/46	07:18 12:31-14:02/91 16:30
13	05:36 20:36	06:06 07:05-07:25/20 20:05	06:38 07:55-08:01/6 19:15	07:10 07:44-08:28/44 18:24	06:47 12:33-13:45/72 16:43 07:20-08:06/46	07:19 12:31-14:03/92 16:30
14	05:37 20:35	06:07 07:03-07:26/23 20:04	06:39 07:49-08:06/17 19:14	07:11 07:44-08:26/42 18:22	06:48 12:33-13:47/74 16:42 07:21-08:05/44	07:20 12:32-14:04/92 16:30
15	05:38 20:35	06:08 07:02-07:28/26 20:02	06:40 07:46-08:09/23 19:12	07:12 07:46-08:26/40 18:21	06:49 12:32-13:47/75 16:41 07:23-08:05/42	07:20 12:33-14:04/91 16:30
16	05:39 20:34	06:09 07:00-07:29/29 20:01	06:41 07:43-08:11/28 19:10	07:13 07:47-08:25/38 18:19	06:50 12:31-13:48/77 16:40 07:24-08:04/40	07:21 12:32-14:04/92 16:30
17	05:40 20:33	06:10 06:59-07:30/31 19:59	06:42 07:41-08:12/31 19:08	07:14 07:47-08:23/36 18:18	06:51 12:31-13:49/78 16:39 07:27-08:04/37	07:22 12:33-14:05/92 16:31
18	05:40 20:33	06:11 06:58-07:30/32 19:58	06:43 07:40-08:13/33 19:07	07:15 07:48-08:21/33 18:16	06:53 12:30-13:50/80 16:38 07:28-08:04/36	07:23 12:34-14:06/92 16:31
19	05:41 20:32	06:12 06:57-07:31/34 19:56	06:44 07:38-08:14/36 19:05	07:16 07:50-08:19/29 18:15	06:54 12:29-13:50/81 16:37 07:29-08:03/34	07:23 12:34-14:06/92 16:31
20	05:42 20:31	06:13 06:56-07:32/36 19:55	06:45 07:37-08:15/38 19:03	07:18 07:52-08:18/26 18:13	06:55 12:29-13:52/83 16:37 07:30-08:03/33	07:24 12:35-14:07/92 16:32
21	05:43 20:30	06:14 06:55-07:32/37 19:53	06:46 07:35-08:15/40 19:01	07:19 07:55-08:14/19 18:12	06:56 12:29-13:52/83 16:36 07:31-08:02/31	07:24 12:35-14:07/92 16:32
22	05:44 20:30	06:15 06:55-07:32/37 19:52	06:47 07:34-08:19/45 19:00	07:20 07:59-08:10/11 18:10	06:57 12:28-13:53/85 16:35 07:32-08:01/29	07:25 12:36-14:08/92 16:33
23	05:45 20:29	06:16 06:54-07:32/38 19:50	06:48 07:33-08:22/49 18:58	07:21 08:17-08:51/34 18:09	06:59 12:28-13:53/85 16:35 07:33-08:00/27	07:25 12:36-14:08/92 16:33
24	05:46 20:28	06:17 06:54-07:32/38 19:49	06:49 07:33-08:24/51 18:56	07:22 08:17-08:55/38 18:07	07:00 12:28-13:54/86 16:34 07:36-08:00/24	07:26 12:36-14:08/92 16:34
25	05:47 20:27	06:18 06:53-07:32/39 19:47	06:50 07:32-08:26/54 18:54	06:23 07:16-07:57/41 17:06	07:01 12:28-13:55/87 16:34 07:37-07:59/22	07:26 12:37-14:09/92 16:34
26	05:48 20:26	06:19 06:52-07:31/39 19:45	06:51 07:32-08:28/56 18:53	06:25 07:15-07:58/43 17:04	07:02 12:28-13:55/87 16:33 07:39-07:57/18	07:27 12:37-14:09/92 16:35
27	05:48 20:25	06:20 06:52-07:31/39 19:44	06:52 07:32-08:29/57 18:51	06:26 07:14-07:59/45 17:03	07:03 12:27-13:55/88 16:32 07:41-07:55/14	07:27 12:37-14:09/92 16:36
28	05:49 20:24	06:21 06:52-07:30/38 19:42	06:53 07:31-08:30/59 18:49	06:27 07:14-08:01/47 17:01	07:04 12:27-13:56/89 16:32 07:44-07:53/9	07:27 12:39-14:10/91 16:36
29	05:50 20:23	06:22 06:52-07:30/38 19:41	06:54 07:31-08:31/60 18:47	06:28 07:14-08:02/48 17:00	07:05 12:27-13:56/89 16:32	07:28 12:39-14:11/92 16:37
30	05:51 20:22	06:23 06:52-07:29/37 19:39	06:55 07:31-08:31/60 18:46	06:29 07:13-08:02/49 16:59	07:07 12:28-13:57/89 16:31	07:28 12:39-14:11/92 16:38
31	05:52 20:21	06:24 06:52-07:28/36 19:37		06:31 07:13-08:03/50 16:57		07:28 12:40-14:11/91 16:39
Potential sun hours	462	429	375	344	296	285
Sum of minutes with flicker	0	666	934	1512	3163	2836

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: 24 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:29 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 20:00	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:35	06:58 18:43	06:33 16:56	07:09 16:32
3	07:29 16:43	07:12 17:18	06:35 17:53	06:43 19:28	05:57 20:01	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
4	07:29 16:43	07:11 17:19	06:33 17:54	06:41 19:29	05:55 20:02	05:28 20:31	05:32 20:39	05:57 20:17	06:29 19:31	07:00 18:40	06:36 16:53	07:11 16:31
5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:32	05:32 20:39	05:58 20:16	06:30 19:30	07:01 18:38	06:37 16:52	07:12 16:31
6	07:29 16:45	07:09 17:22	06:30 17:56	06:38 19:31	05:53 20:04	05:28 20:32	05:33 20:39	05:59 20:14	06:31 19:28	07:02 18:36	06:38 16:51	07:13 16:31
7	07:29 16:46	07:08 17:23	06:28 17:58	06:36 19:32	05:52 20:05	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:35	06:40 16:50	07:14 16:31
8	07:28 16:47	07:07 17:25	06:26 17:59	06:34 19:33	05:50 20:06	05:27 20:34	05:34 20:38	06:01 20:12	06:33 19:24	07:05 18:33	06:41 16:49	07:15 16:31
9	07:28 16:48	07:06 17:26	06:25 18:00	06:33 19:34	05:49 20:07	05:27 20:34	05:35 20:38	06:02 20:11	06:34 19:23	07:06 18:31	06:42 16:48	07:16 16:31
10	07:28 16:49	07:05 17:27	06:23 18:01	06:31 19:35	05:48 20:08	05:27 20:35	05:35 20:37	06:03 20:09	06:35 19:21	07:07 18:30	06:43 16:47	07:17 16:31
11	07:28 16:50	07:03 17:28	06:22 18:02	06:29 19:37	05:47 20:09	05:26 20:35	05:36 20:37	06:04 20:08	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:28 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:06 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
13	07:27 16:52	07:01 17:31	06:18 18:05	06:26 19:39	05:45 20:11	05:26 20:36	05:37 20:36	06:07 20:05	06:38 19:16	07:10 18:25	06:47 16:44	07:19 16:31
14	07:27 16:54	06:59 17:32	06:17 18:06	06:24 19:40	05:44 20:12	05:26 20:37	05:38 20:35	06:08 20:04	06:39 19:14	07:11 18:23	06:48 16:43	07:20 16:31
15	07:26 16:55	06:58 17:33	06:15 18:07	06:23 19:41	05:43 20:13	05:26 20:37	05:39 20:35	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:21 16:31
16	07:26 16:56	06:57 17:35	06:13 18:08	06:21 19:42	05:42 20:14	05:26 20:38	05:40 20:34	06:10 20:01	06:41 19:11	07:13 18:20	06:50 16:41	07:21 16:32
17	07:26 16:57	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:15	05:26 20:38	05:41 20:34	06:11 20:00	06:42 19:09	07:15 18:18	06:52 16:40	07:22 16:32
18	07:25 16:58	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:16	05:26 20:38	05:41 20:33	06:12 19:58	06:43 19:07	07:16 18:17	06:53 16:39	07:23 16:32
19	07:25 16:59	06:53 17:38	06:08 18:11	06:17 19:45	05:39 20:17	05:26 20:39	05:42 20:32	06:13 19:57	06:44 19:05	07:17 18:15	06:54 16:38	07:23 16:33
20	07:24 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:18	05:26 20:39	05:43 20:31	06:14 19:55	06:46 19:04	07:18 18:14	06:55 16:38	07:24 16:33
21	07:23 17:02	06:50 17:41	06:05 18:14	06:14 19:48	05:37 20:19	05:27 20:39	05:44 20:31	06:15 19:54	06:47 19:02	07:19 18:12	06:56 16:37	07:24 16:33
22	07:23 17:03	06:48 17:42	06:03 18:15	06:12 19:49	05:36 20:20	05:27 20:39	05:45 20:30	06:16 19:52	06:48 19:00	07:20 18:11	06:58 16:36	07:25 16:34
23	07:22 17:04	06:47 17:43	06:01 18:16	06:11 19:50	05:35 20:21	05:27 20:40	05:46 20:29	06:17 19:51	06:49 18:58	07:21 18:09	06:59 16:36	07:26 16:34
24	07:21 17:06	06:45 17:45	06:00 18:17	06:09 19:51	05:35 20:22	05:27 20:40	05:47 20:28	06:18 19:49	06:50 18:57	07:23 18:08	07:00 16:35	07:26 16:35
25	07:21 17:07	06:44 17:46	05:58 18:18	06:08 19:52	05:34 20:23	05:28 20:40	05:48 20:27	06:19 19:47	06:51 18:55	06:24 17:07	07:01 16:35	07:26 16:36
26	07:20 17:08	06:42 17:47	05:56 18:19	06:06 19:53	05:33 20:24	05:28 20:40	05:49 20:26	06:20 19:46	06:52 18:53	06:25 17:05	07:02 16:34	07:27 16:36
27	07:19 17:09	06:41 17:48	05:54 18:20	06:05 19:54	05:33 20:25	05:28 20:40	05:50 20:25	06:21 19:44	06:53 18:52	06:26 17:04	07:03 16:34	07:27 16:37
28	07:18 17:11	06:39 17:49	05:53 18:21	06:03 19:55	05:32 20:25	05:29 20:40	05:51 20:24	06:22 19:43	06:54 18:50	06:27 17:02	07:05 16:33	07:27 16:38
29	07:17 17:12		06:51 19:22	06:02 19:56	06:02 20:26	05:31 20:40	05:29 20:23	06:23 19:41	06:55 18:48	06:29 17:01	07:06 16:33	07:28 16:38
30	07:16 17:13		06:49 19:23	06:01 19:57	06:01 20:27	05:31 20:40	05:29 20:22	06:24 19:39	06:56 18:46	07:07 17:00	07:07 16:32	07:28 16:39
31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	400	450	454	461	429	375	345	296	286
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: 25 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:29 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:35	06:58 18:43	06:33 16:56	07:09 16:32
3	07:29 16:43	07:12 17:18	06:35 17:53	06:43 19:28	05:57 20:01	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
4	07:29 16:43	07:11 17:19	06:33 17:54	06:41 19:29	05:55 20:02	05:28 20:31	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:40	06:36 16:53	07:11 16:31
5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:32	05:32 20:39	05:58 20:16	06:30 19:30	07:01 18:38	06:37 16:52	07:12 16:31
6	07:29 16:45	07:09 17:22	06:30 17:56	06:38 19:31	05:53 20:04	05:28 20:32	05:33 20:39	05:59 20:14	06:31 19:28	07:02 18:36	06:38 16:51	07:13 16:31
7	07:29 16:46	07:08 17:23	06:28 17:58	06:36 19:32	05:52 20:05	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:35	06:39 16:50	07:14 16:31
8	07:28 16:47	07:07 17:25	06:26 17:59	06:34 19:33	05:50 20:06	05:27 20:34	05:34 20:38	06:01 20:12	06:33 19:24	07:05 18:33	06:41 16:49	07:15 16:31
9	07:28 16:48	07:06 17:26	06:25 18:00	06:33 19:34	05:49 20:07	05:27 20:34	05:35 20:38	06:02 20:11	06:34 19:23	07:06 18:31	06:42 16:48	07:16 16:31
10	07:28 16:49	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:08	05:27 20:35	05:35 20:37	06:03 20:09	06:35 19:21	07:07 18:30	06:43 16:47	07:17 16:31
11	07:28 16:50	07:03 17:28	06:22 18:02	06:29 19:37	05:47 20:09	05:26 20:35	05:36 20:37	06:04 20:08	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:28 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:06 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
13	07:27 16:52	07:01 17:31	06:18 18:05	06:26 19:39	05:45 20:11	05:26 20:36	05:37 20:36	06:07 20:05	06:38 19:16	07:10 18:25	06:47 16:44	07:19 16:31
14	07:27 16:54	06:59 17:32	06:17 18:06	06:24 19:40	05:44 20:12	05:26 20:37	05:38 20:35	06:08 20:04	06:39 19:14	07:11 18:23	06:48 16:43	07:20 16:31
15	07:26 16:55	06:58 17:33	06:15 18:07	06:23 19:41	05:43 20:13	05:26 20:37	05:39 20:35	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:21 16:31
16	07:26 16:56	06:57 17:35	06:13 18:08	06:21 19:42	05:42 20:14	05:26 20:38	05:40 20:34	06:10 20:01	06:41 19:11	07:13 18:20	06:50 16:41	07:21 16:32
17	07:26 16:57	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:15	05:26 20:38	05:41 20:34	06:11 20:00	06:42 19:09	07:15 18:18	06:52 16:40	07:22 16:32
18	07:25 16:58	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:16	05:26 20:38	05:41 20:33	06:12 19:58	06:43 19:07	07:16 18:17	06:53 16:39	07:23 16:32
19	07:25 16:59	06:53 17:38	06:08 18:11	06:17 19:45	05:39 20:17	05:26 20:39	05:42 20:32	06:13 19:57	06:44 19:05	07:17 18:15	06:54 16:38	07:23 16:33
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31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	400	450	454	461	429	375	345	296	286
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: 26 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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3	07:29 16:43	07:12 17:18	06:35 17:53	06:43 19:28	05:57 20:01	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
4	07:29 16:43	07:11 17:19	06:33 17:54	06:41 19:29	05:55 20:02	05:28 20:31	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:40	06:36 16:53	07:11 16:31
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31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	400	450	454	461	429	375	345	296	286
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

Project:

WF Montorio

Licensed user:

Ge.co.Dor srl

Via P.Amedeo n.32

IT-75021 Colobraro (MT)

Gaetano / info@gecodor.it

Calculated:

15/02/2022 19:06/3.4.424

SHADOW - Calendar per WTG

WTG: 27 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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Potential sun hours	296	296	369	400	450	454	461	429	375	345	296	286
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: 28 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:32	05:32 20:39	05:58 20:16	06:30 19:30	07:01 18:38	06:37 16:52	07:12 16:31
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31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	400	450	454	461	429	375	345	296	286
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: 29 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:39	05:55 20:19	06:27 19:34	06:58 18:43	06:33 16:56	07:09 16:32
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31	07:15 17:14		06:48 19:24		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 30 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:51	05:35 20:22	05:27 20:40	05:47 20:28	06:18 19:49	06:50 18:57	07:23 18:08	07:00 16:35	07:26 16:35
25	07:20 17:07	06:44 17:46	05:58 18:18	06:08 19:52	05:34 20:23	05:28 20:40	05:48 20:27	06:19 19:47	06:51 18:55	07:24 17:06	07:01 16:35	07:26 16:35
26	07:20 17:08	06:42 17:47	05:56 18:19	06:06 19:53	05:33 20:24	05:28 20:40	05:49 20:26	06:20 19:46	06:52 18:53	07:25 17:05	07:02 16:34	07:27 16:36
27	07:19 17:09	06:41 17:48	05:54 18:20	06:05 19:54	05:32 20:24	05:28 20:40	05:49 20:25	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:33	07:27 16:37
28	07:18 17:11	06:39 17:49	05:53 18:21	06:03 19:55	05:32 20:25	05:29 20:40	05:50 20:24	06:22 19:43	06:54 18:50	07:27 17:02	07:04 16:33	07:27 16:37
29	07:17 17:12		06:51 19:22	06:02 19:56	06:02 20:26	05:31 20:40	05:29 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:06 16:33	07:28 16:38
30	07:16 17:13		06:49 19:23	06:01 19:57	06:01 20:27	05:31 20:40	05:29 20:22	06:24 19:39	06:56 18:46	07:29 17:00	07:07 16:32	07:28 16:39
31	07:15 17:14		06:48 19:24		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 31 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:34	06:58 18:43	06:33 16:56	07:09 16:32
3	07:29 16:42	07:12 17:18	06:34 17:53	06:42 19:28	05:57 20:00	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
4	07:29 16:43	07:11 17:19	06:33 17:54	06:41 19:29	05:55 20:02	05:28 20:31	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:40	06:36 16:53	07:11 16:31
5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:31	05:32 20:39	05:58 20:15	06:30 19:29	07:01 18:38	06:37 16:52	07:12 16:31
6	07:29 16:45	07:09 17:22	06:30 17:56	06:37 19:31	05:53 20:04	05:28 20:32	05:33 20:39	05:59 20:14	06:31 19:28	07:02 18:36	06:38 16:51	07:13 16:31
7	07:28 16:46	07:08 17:23	06:28 17:58	06:36 19:32	05:51 20:05	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:50	07:14 16:31
8	07:28 16:47	07:07 17:25	06:26 17:59	06:34 19:33	05:50 20:06	05:27 20:33	05:34 20:38	06:01 20:12	06:33 19:24	07:04 18:33	06:41 16:49	07:15 16:31
9	07:28 16:48	07:06 17:26	06:25 18:00	06:33 19:34	05:49 20:07	05:27 20:34	05:35 20:38	06:02 20:11	06:34 19:23	07:06 18:31	06:42 16:48	07:16 16:31
10	07:28 16:49	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:08	05:27 20:35	05:35 20:37	06:03 20:09	06:35 19:21	07:07 18:30	06:43 16:47	07:16 16:31
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12	07:27 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:05 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
13	07:27 16:52	07:01 17:31	06:18 18:04	06:26 19:39	05:45 20:11	05:26 20:36	05:37 20:36	06:06 20:05	06:38 19:16	07:10 18:25	06:47 16:44	07:19 16:31
14	07:27 16:54	06:59 17:32	06:16 18:06	06:24 19:40	05:44 20:12	05:26 20:37	05:38 20:35	06:08 20:04	06:39 19:14	07:11 18:23	06:48 16:43	07:20 16:31
15	07:26 16:55	06:58 17:33	06:15 18:07	06:23 19:41	05:43 20:13	05:26 20:37	05:39 20:35	06:09 20:02	06:40 19:12	07:12 18:21	06:49 16:42	07:21 16:31
16	07:26 16:56	06:57 17:35	06:13 18:08	06:21 19:42	05:42 20:14	05:26 20:37	05:40 20:34	06:10 20:01	06:41 19:11	07:13 18:20	06:50 16:41	07:21 16:32
17	07:26 16:57	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:15	05:26 20:38	05:41 20:33	06:11 20:00	06:42 19:09	07:14 18:18	06:52 16:40	07:22 16:32
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19	07:24 16:59	06:53 17:38	06:08 18:11	06:17 19:45	05:39 20:17	05:26 20:38	05:42 20:32	06:13 19:57	06:44 19:05	07:17 18:15	06:54 16:38	07:23 16:33
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21	07:23 17:02	06:50 17:41	06:05 18:13	06:13 19:47	05:37 20:19	05:27 20:39	05:44 20:31	06:15 19:54	06:46 19:02	07:19 18:12	06:56 16:37	07:24 16:33
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23	07:22 17:04	06:47 17:43	06:01 18:16	06:10 19:50	05:35 20:21	05:27 20:39	05:46 20:29	06:17 19:51	06:49 18:58	07:21 18:09	06:59 16:36	07:25 16:34
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:51	05:35 20:22	05:27 20:40	05:47 20:28	06:18 19:49	06:50 18:57	07:23 18:08	07:00 16:35	07:26 16:35
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27	07:19 17:09	06:41 17:48	05:54 18:20	06:05 19:54	05:32 20:24	05:28 20:40	05:49 20:25	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:33	07:27 16:37
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29	07:17 17:12		06:51 19:22	06:02 19:56	06:02 20:26	05:31 20:40	05:29 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:06 16:33	07:28 16:38
30	07:16 17:13		06:49 19:23	06:01 19:57	06:01 20:27	05:31 20:40	05:29 20:22	06:24 19:39	06:56 18:46	07:29 17:00	07:07 16:32	07:28 16:39
31	07:15 17:14		06:48 19:24		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 32 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:34	06:58 18:43	06:33 16:56	07:09 16:32
3	07:29 16:42	07:12 17:18	06:34 17:53	06:42 19:28	05:57 20:00	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
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5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:31	05:32 20:39	05:58 20:16	06:30 19:29	07:01 18:38	06:37 16:52	07:12 16:31
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11	07:28 16:50	07:03 17:28	06:21 18:02	06:29 19:37	05:47 20:09	05:26 20:35	05:36 20:37	06:04 20:08	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:27 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:05 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
13	07:27 16:52	07:01 17:31	06:18 18:04	06:26 19:39	05:45 20:11	05:26 20:36	05:37 20:36	06:06 20:05	06:38 19:16	07:10 18:25	06:47 16:44	07:19 16:31
14	07:27 16:54	06:59 17:32	06:16 18:06	06:24 19:40	05:44 20:12	05:26 20:37	05:38 20:35	06:08 20:04	06:39 19:14	07:11 18:23	06:48 16:43	07:20 16:31
15	07:26 16:55	06:58 17:33	06:15 18:07	06:23 19:41	05:43 20:13	05:26 20:37	05:39 20:35	06:09 20:02	06:40 19:12	07:12 18:21	06:49 16:42	07:21 16:31
16	07:26 16:56	06:57 17:35	06:13 18:08	06:21 19:42	05:42 20:14	05:26 20:37	05:40 20:34	06:10 20:01	06:41 19:11	07:13 18:20	06:50 16:41	07:21 16:32
17	07:26 16:57	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:15	05:26 20:38	05:41 20:33	06:11 20:00	06:42 19:09	07:14 18:18	06:52 16:40	07:22 16:32
18	07:25 16:58	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:16	05:26 20:38	05:41 20:33	06:12 19:58	06:43 19:07	07:16 18:17	06:53 16:39	07:23 16:32
19	07:24 16:59	06:53 17:38	06:08 18:11	06:17 19:45	05:39 20:17	05:26 20:38	05:42 20:32	06:13 19:57	06:44 19:05	07:17 18:15	06:54 16:38	07:23 16:33
20	07:24 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:18	05:26 20:39	05:43 20:31	06:14 19:55	06:45 19:04	07:18 18:14	06:55 16:38	07:24 16:33
21	07:23 17:02	06:50 17:41	06:05 18:13	06:13 19:47	05:37 20:19	05:27 20:39	05:44 20:31	06:15 19:54	06:46 19:02	07:19 18:12	06:56 16:37	07:24 16:33
22	07:23 17:03	06:48 17:42	06:03 18:15	06:12 19:49	05:36 20:20	05:27 20:39	05:45 20:30	06:16 19:52	06:48 19:00	07:20 18:11	06:58 16:36	07:25 16:34
23	07:22 17:04	06:47 17:43	06:01 18:16	06:10 19:50	05:35 20:21	05:27 20:39	05:46 20:29	06:17 19:51	06:49 18:58	07:21 18:09	06:59 16:36	07:25 16:34
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:51	05:35 20:22	05:27 20:40	05:47 20:28	06:18 19:49	06:50 18:57	07:23 18:08	07:00 16:35	07:26 16:35
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28	07:18 17:11	06:39 17:49	05:53 18:21	06:03 19:55	05:32 20:25	05:29 20:40	05:50 20:24	06:22 19:43	06:54 18:50	06:27 17:02	07:04 16:33	07:27 16:37
29	07:17 17:12	06:38 17:49	05:52 18:22	06:02 19:56	05:31 20:26	05:29 20:40	05:51 20:23	06:23 19:41	06:55 18:48	06:28 17:01	07:06 16:33	07:28 16:38
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31	07:15 17:14	06:36 17:49	05:50 18:24	06:00 19:58	05:30 20:28	05:28 20:40	05:53 20:21	06:25 19:38	06:57 18:45	06:31 16:58	07:08 16:40	07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 33 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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10	07:28 16:49	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:08	05:27 20:35	05:35 20:37	06:03 20:09	06:35 19:21	07:07 18:30	06:43 16:47	07:17 16:31
11	07:28 16:50	07:03 17:28	06:21 18:02	06:29 19:37	05:47 20:09	05:26 20:35	05:36 20:37	06:04 20:08	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:27 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:05 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
13	07:27 16:52	07:01 17:31	06:18 18:04	06:26 19:39	05:45 20:11	05:26 20:36	05:37 20:36	06:06 20:05	06:38 19:16	07:10 18:25	06:47 16:44	07:19 16:31
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Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 34 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:34	06:58 18:43	06:33 16:56	07:09 16:32
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29	07:17 17:12		06:51 19:22	06:02 19:56	06:02 20:26	05:31 20:40	05:29 20:23	06:23 19:41	06:55 18:48	07:29 17:01	07:06 16:33	07:28 16:38
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31	07:15 17:14		06:48 19:24		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 35 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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31	07:15 17:14		06:48 19:24		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 36 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (18)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:34	06:58 18:43	06:33 16:56	07:09 16:32
3	07:29 16:43	07:12 17:18	06:34 17:53	06:43 19:28	05:57 20:01	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
4	07:29 16:43	07:11 17:19	06:33 17:54	06:41 19:29	05:55 20:02	05:28 20:31	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:40	06:36 16:53	07:11 16:31
5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:32	05:32 20:39	05:58 20:16	06:30 19:29	07:01 18:38	06:37 16:52	07:12 16:31
6	07:29 16:45	07:09 17:22	06:30 17:56	06:37 19:31	05:53 20:04	05:28 20:32	05:33 20:39	05:59 20:14	06:31 19:28	07:02 18:36	06:38 16:51	07:13 16:31
7	07:28 16:46	07:08 17:23	06:28 17:58	06:36 19:32	05:52 20:05	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:35	06:39 16:50	07:14 16:31
8	07:28 16:47	07:07 17:25	06:26 17:59	06:34 19:33	05:50 20:06	05:27 20:33	05:34 20:38	06:01 20:12	06:33 19:24	07:04 18:33	06:41 16:49	07:15 16:31
9	07:28 16:48	07:06 17:26	06:25 18:00	06:33 19:34	05:49 20:07	05:27 20:34	05:35 20:38	06:02 20:11	06:34 19:23	07:06 18:31	06:42 16:48	07:16 16:31
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12	07:27 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:05 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
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20	07:24 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:18	05:26 20:39	05:43 20:31	06:14 19:55	06:45 19:04	07:18 18:14	06:55 16:38	07:24 16:33
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31	07:15 17:14		06:48 19:24		06:00 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 37 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (19)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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20	07:24 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:18	05:26 20:39	05:43 20:31	06:14 19:55	06:45 19:04	07:18 18:14	06:55 16:38	07:24 16:33
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22	07:23 17:03	06:48 17:42	06:03 18:15	06:12 19:49	05:36 20:20	05:27 20:39	05:45 20:30	06:16 19:52	06:48 19:00	07:20 18:11	06:58 16:36	07:25 16:34
23	07:22 17:04	06:47 17:43	06:01 18:16	06:11 19:50	05:35 20:21	05:27 20:39	05:46 20:29	06:17 19:51	06:49 18:58	07:21 18:09	06:59 16:36	07:25 16:34
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31	07:15 17:14		06:48 19:24		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 38 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (20)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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19	07:25 16:59	06:53 17:38	06:08 18:11	06:17 19:45	05:39 20:17	05:26 20:39	05:42 20:32	06:13 19:57	06:44 19:05	07:17 18:15	06:54 16:38	07:23 16:33
20	07:24 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:18	05:26 20:39	05:43 20:31	06:14 19:55	06:45 19:04	07:18 18:14	06:55 16:38	07:24 16:33
21	07:23 17:02	06:50 17:41	06:05 18:13	06:14 19:47	05:37 20:19	05:27 20:39	05:44 20:31	06:15 19:54	06:47 19:02	07:19 18:12	06:56 16:37	07:24 16:33
22	07:23 17:03	06:48 17:42	06:03 18:15	06:12 19:49	05:36 20:20	05:27 20:39	05:45 20:30	06:16 19:52	06:48 19:00	07:20 18:11	06:58 16:36	07:25 16:34
23	07:22 17:04	06:47 17:43	06:01 18:16	06:11 19:50	05:35 20:21	05:27 20:39	05:46 20:29	06:17 19:51	06:49 18:58	07:21 18:09	06:59 16:36	07:25 16:34
24	07:21 17:06	06:45 17:45	06:00 18:17	06:09 19:51	05:35 20:22	05:27 20:40	05:47 20:28	06:18 19:49	06:50 18:57	07:23 18:08	07:00 16:35	07:26 16:35
25	07:21 17:07	06:44 17:46	05:58 18:18	06:08 19:52	05:34 20:23	05:28 20:40	05:48 20:27	06:19 19:47	06:51 18:55	06:24 17:06	07:01 16:35	07:26 16:36
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27	07:19 17:09	06:41 17:48	05:54 18:20	06:05 19:54	05:32 20:24	05:28 20:40	05:50 20:25	06:21 19:44	06:53 18:52	06:26 17:04	07:03 16:34	07:27 16:37
28	07:18 17:11	06:39 17:49	05:53 18:21	06:03 19:55	05:32 20:25	05:29 20:40	05:50 20:24	06:22 19:43	06:54 18:50	06:27 17:02	07:04 16:33	07:27 16:37
29	07:17 17:12		06:51 19:22	06:02 19:56	06:02 20:26	05:29 20:40	05:51 20:23	06:23 19:41	06:55 18:48	06:29 17:01	07:06 16:33	07:28 16:38
30	07:16 17:13		06:49 19:23	06:01 19:57	06:01 20:27	05:29 20:40	05:52 20:22	06:24 19:39	06:56 18:46	06:30 17:00	07:07 16:32	07:28 16:39
31	07:15 17:14		06:48 19:24		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 39 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:35	06:58 18:43	06:33 16:56	07:09 16:32
3	07:29 16:43	07:12 17:18	06:34 17:53	06:43 19:28	05:57 20:01	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
4	07:29 16:43	07:11 17:19	06:33 17:54	06:41 19:29	05:55 20:02	05:28 20:31	05:31 20:39	05:57 20:17	06:29 19:31	07:00 18:40	06:36 16:53	07:11 16:31
5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:32	05:32 20:39	05:58 20:16	06:30 19:29	07:01 18:38	06:37 16:52	07:12 16:31
6	07:29 16:45	07:09 17:22	06:30 17:56	06:38 19:31	05:53 20:04	05:28 20:32	05:33 20:39	05:59 20:14	06:31 19:28	07:02 18:36	06:38 16:51	07:13 16:31
7	07:28 16:46	07:08 17:23	06:28 17:58	06:36 19:32	05:52 20:05	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:35	06:39 16:50	07:14 16:31
8	07:28 16:47	07:07 17:25	06:26 17:59	06:34 19:33	05:50 20:06	05:27 20:33	05:34 20:38	06:01 20:12	06:33 19:24	07:05 18:33	06:41 16:49	07:15 16:31
9	07:28 16:48	07:06 17:26	06:25 18:00	06:33 19:34	05:49 20:07	05:27 20:34	05:35 20:38	06:02 20:11	06:34 19:23	07:06 18:31	06:42 16:48	07:16 16:31
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11	07:28 16:50	07:03 17:28	06:21 18:02	06:29 19:37	05:47 20:09	05:26 20:35	05:36 20:37	06:04 20:08	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:27 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:05 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
13	07:27 16:52	07:01 17:31	06:18 18:05	06:26 19:39	05:45 20:11	05:26 20:36	05:37 20:36	06:07 20:05	06:38 19:16	07:10 18:25	06:47 16:44	07:19 16:31
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17	07:26 16:57	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:15	05:26 20:38	05:41 20:33	06:11 20:00	06:42 19:09	07:15 18:18	06:52 16:40	07:22 16:32
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19	07:25 16:59	06:53 17:38	06:08 18:11	06:17 19:45	05:39 20:17	05:26 20:39	05:42 20:32	06:13 19:57	06:44 19:05	07:17 18:15	06:54 16:38	07:23 16:33
20	07:24 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:18	05:26 20:39	05:43 20:31	06:14 19:55	06:45 19:04	07:18 18:14	06:55 16:38	07:24 16:33
21	07:23 17:02	06:50 17:41	06:05 18:13	06:14 19:47	05:37 20:19	05:27 20:39	05:44 20:31	06:15 19:54	06:47 19:02	07:19 18:12	06:56 16:37	07:24 16:33
22	07:23 17:03	06:48 17:42	06:03 18:15	06:12 19:49	05:36 20:20	05:27 20:39	05:45 20:30	06:16 19:52	06:48 19:00	07:20 18:11	06:58 16:36	07:25 16:34
23	07:22 17:04	06:47 17:43	06:01 18:16	06:11 19:50	05:35 20:21	05:27 20:39	05:46 20:29	06:17 19:51	06:49 18:58	07:21 18:09	06:59 16:36	07:25 16:34
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29	07:17 17:12		06:51 19:22	06:02 19:56	06:02 20:26	05:29 20:40	05:51 20:23	06:23 19:41	06:55 18:48	06:29 17:01	07:06 16:33	07:28 16:38
30	07:16 17:13		06:49 19:23	06:01 19:57	06:01 20:27	05:29 20:40	05:52 20:22	06:24 19:39	06:56 18:46	07:07 17:00	07:07 16:32	07:28 16:39
31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 40 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:35	06:58 18:43	06:33 16:56	07:09 16:32
3	07:29 16:43	07:12 17:18	06:35 17:53	06:43 19:28	05:57 20:01	05:29 20:30	05:31 20:39	05:56 20:18	06:28 19:33	06:59 18:41	06:35 16:55	07:10 16:31
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5	07:29 16:44	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:03	05:28 20:32	05:32 20:39	05:58 20:16	06:30 19:29	07:01 18:38	06:37 16:52	07:12 16:31
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12	07:28 16:51	07:02 17:30	06:20 18:03	06:28 19:38	05:46 20:10	05:26 20:36	05:37 20:36	06:05 20:07	06:37 19:18	07:09 18:26	06:46 16:45	07:18 16:31
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14	07:27 16:54	06:59 17:32	06:16 18:06	06:24 19:40	05:44 20:12	05:26 20:37	05:38 20:35	06:08 20:04	06:39 19:14	07:11 18:23	06:48 16:43	07:20 16:31
15	07:26 16:55	06:58 17:33	06:15 18:07	06:23 19:41	05:43 20:13	05:26 20:37	05:39 20:35	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:21 16:31
16	07:26 16:56	06:57 17:35	06:13 18:08	06:21 19:42	05:42 20:14	05:26 20:38	05:40 20:34	06:10 20:01	06:41 19:11	07:13 18:20	06:50 16:41	07:21 16:32
17	07:26 16:57	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:15	05:26 20:38	05:41 20:33	06:11 20:00	06:42 19:09	07:15 18:18	06:52 16:40	07:22 16:32
18	07:25 16:58	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:16	05:26 20:38	05:41 20:33	06:12 19:58	06:43 19:07	07:16 18:17	06:53 16:39	07:23 16:32
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20	07:24 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:18	05:26 20:39	05:43 20:31	06:14 19:55	06:45 19:04	07:18 18:14	06:55 16:38	07:24 16:33
21	07:23 17:02	06:50 17:41	06:05 18:13	06:14 19:47	05:37 20:19	05:27 20:39	05:44 20:31	06:15 19:54	06:47 19:02	07:19 18:12	06:56 16:37	07:24 16:33
22	07:23 17:03	06:48 17:42	06:03 18:15	06:12 19:49	05:36 20:20	05:27 20:39	05:45 20:30	06:16 19:52	06:48 19:00	07:20 18:11	06:58 16:36	07:25 16:34
23	07:22 17:04	06:47 17:43	06:01 18:16	06:11 19:50	05:35 20:21	05:27 20:39	05:46 20:29	06:17 19:51	06:49 18:58	07:21 18:09	06:59 16:36	07:25 16:34
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29	07:17 17:12		06:51 19:22	06:02 19:56	06:02 20:26	05:29 20:40	05:51 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:06 16:33	07:28 16:38
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31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 41 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
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31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	400	450	454	461	429	375	345	296	286
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: 42 - VESTAS V47 660 47.0 !O! hub: 50,0 m (TOT: 73,5 m) (24)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:41	07:14 17:16	06:38 17:51	06:46 19:26	05:59 19:58	05:30 20:29	05:30 20:40	05:54 20:20	06:26 19:36	06:57 18:45	06:32 16:57	07:08 16:32
2	07:29 16:42	07:13 17:17	06:36 17:52	06:44 19:27	05:58 19:59	05:29 20:29	05:30 20:40	05:55 20:19	06:27 19:35	06:58 18:43	06:33 16:56	07:09 16:32
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31	07:15 17:14		06:48 19:25		06:01 20:28		05:53 20:21	06:25 19:38		06:31 16:58		07:28 16:40
Potential sun hours	296	296	369	399	450	454	461	429	375	345	296	286
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: 43 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
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27	07:18 17:08	06:40 17:47	05:53 18:19	06:04 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:43	06:52 18:51	06:25 17:03	07:03 16:32	07:26 16:36
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:31 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:16 17:11		06:50 19:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12		06:48 19:23	05:59 19:57	05:29 20:26	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:59	07:06 16:31	07:27 16:38
31	07:15 17:13		06:47 19:24		05:29 20:27		05:52 20:21	06:24 19:37		06:30 16:57		07:27 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 44 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:55 20:00	05:27 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:02 18:35	06:38 16:50	07:12 16:30
7	07:28 16:45	07:07 17:22	06:27 17:57	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:33 19:33	05:49 20:05	05:26 20:33	05:33 20:38	06:00 20:11	06:32 19:24	07:04 18:32	06:40 16:48	07:14 16:29
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11	07:27 16:49	07:03 17:27	06:21 18:01	06:28 19:36	05:46 20:08	05:25 20:35	05:35 20:36	06:03 20:07	06:35 19:18	07:07 18:27	06:44 16:44	07:17 16:30
12	07:27 16:50	07:01 17:29	06:19 18:02	06:27 19:37	05:45 20:09	05:25 20:35	05:36 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:35	06:05 20:05	06:37 19:15	07:09 18:24	06:46 16:43	07:19 16:30
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31	07:15 17:13	06:35 17:50	05:49 18:23	05:59 19:57	05:29 20:28	05:28 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 45 - REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:09 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:27 20:30	05:30 20:39	05:55 20:18	06:27 19:32	06:58 18:40	06:34 16:54	07:10 16:30
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13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:36	06:05 20:05	06:37 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:27 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:42 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:13	07:11 18:22	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:32	06:14 18:06	06:22 19:40	05:41 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:40 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:30
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:39 20:15	05:25 20:38	05:39 20:33	06:10 19:59	06:42 19:08	07:14 18:17	06:51 16:39	07:22 16:31
18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:44	05:39 20:16	05:25 20:38	05:40 20:33	06:11 19:58	06:43 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:04	06:45 17:44	05:59 18:16	06:08 19:50	05:33 20:22	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
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27	07:19 17:08	06:40 17:47	05:54 18:19	06:04 19:54	05:31 20:24	05:27 20:40	05:48 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:32	07:27 16:36
28	07:18 17:09	06:39 17:48	05:52 18:21	06:02 19:55	05:31 20:25	05:27 20:40	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:38 17:49	05:51 18:22	06:01 19:56	05:30 20:26	05:28 20:40	05:50 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
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31	07:15 17:13	06:36 17:51	05:49 18:24	05:59 19:58	05:29 20:28	05:29 20:40	05:52 20:21	06:24 19:37	06:56 18:45	06:30 16:57	07:07 16:32	07:28 16:39
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 46 - REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
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11	07:27 16:49	07:03 17:27	06:21 18:01	06:28 19:36	05:46 20:09	05:25 20:35	05:35 20:37	06:03 20:07	06:35 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:50	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:44	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:36	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:27 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:13	07:11 18:22	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:41 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
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17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:39 20:15	05:25 20:38	05:39 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
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31	07:15 17:13		06:47 19:24		05:29 20:28		05:52 20:21	06:24 19:37		06:30 16:57		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 47 - REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:55 20:00	05:27 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:54	07:10 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	05:30 20:39	05:56 20:16	06:28 19:31	06:59 18:39	06:35 16:52	07:11 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30
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7	07:28 16:45	07:08 17:22	06:27 17:57	06:35 19:32	05:50 20:04	05:26 20:33	05:32 20:38	05:59 20:13	06:31 19:25	07:03 18:34	06:39 16:49	07:13 16:30
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12	07:27 16:50	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:30
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20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
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22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:25 20:39	05:44 20:29	06:15 19:52	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:04	06:45 17:44	05:59 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
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27	07:19 17:08	06:40 17:47	05:54 18:19	06:04 19:54	05:31 20:24	05:27 20:40	05:48 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:32	07:27 16:36
28	07:18 17:09	06:39 17:48	05:52 18:20	06:02 19:55	05:31 20:25	05:27 20:40	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:50 18:21	06:01 19:56	05:30 20:26	05:28 20:40	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12	06:35 17:50	05:48 18:22	05:59 19:57	05:29 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:28 16:38
31	07:15 17:13	06:33 17:51	05:46 18:23	05:57 19:58	05:29 20:28	05:29 20:40	05:52 20:21	06:24 19:37	06:57 18:45	06:30 16:57	07:07 16:32	07:28 16:39
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 48 - REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:55 20:00	05:27 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:54	07:10 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	05:30 20:39	05:56 20:16	06:28 19:31	06:59 18:39	06:35 16:52	07:11 16:30
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16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:40 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:30
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18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:44	05:39 20:16	05:25 20:38	05:40 20:32	06:11 19:58	06:43 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
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22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:33
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Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 49 - REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:55 20:00	05:27 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:31	06:59 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:02 18:35	06:38 16:50	07:12 16:30
7	07:28 16:45	07:07 17:22	06:27 17:57	06:35 19:31	05:50 20:04	05:26 20:33	05:32 20:38	05:59 20:13	06:31 19:25	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:33 19:33	05:49 20:05	05:26 20:33	05:33 20:38	06:00 20:11	06:32 19:24	07:04 18:32	06:40 16:48	07:14 16:29
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12	07:27 16:50	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:36	06:05 20:05	06:37 19:15	07:09 18:24	06:46 16:42	07:19 16:30
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Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 50 - REpower MM 92 2050 92.5 !O! hub: 80,0 m (TOT: 126,3 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
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16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:30
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:39 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
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19	07:24 16:58	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:04	06:45 17:44	05:59 18:16	06:08 19:50	05:33 20:22	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
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Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 51 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:26 19:36	06:57 18:44	06:32 16:57	07:07 16:31
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19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:26 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:15 19:46	05:37 20:18	05:26 20:39	05:43 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:02	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:03	06:48 17:42	06:02 18:14	06:12 19:48	05:36 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:09 19:50	05:34 20:22	05:27 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:35	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:55	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:56 18:19	06:06 19:53	05:33 20:23	05:27 20:40	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:05	07:02 16:33	07:26 16:36
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:28 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:33	07:27 16:37
29	07:17 17:11		06:51 19:22	06:01 19:56	06:01 20:26	05:31 20:40	05:28 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:38
30	07:16 17:13		06:49 19:23	06:00 19:57	06:00 20:27	05:30 20:40	05:29 20:22	06:24 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14		06:47 19:24		06:00 20:28		05:30 20:21	06:25 19:37		06:31 16:58		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 52 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:26 19:36	06:57 18:44	06:32 16:57	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:29 20:29	05:30 20:39	05:55 20:19	06:27 19:34	06:58 18:42	06:33 16:55	07:09 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:33 17:54	06:40 19:28	05:55 20:01	05:28 20:31	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:11 16:31
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:52	07:12 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:14 16:30
8	07:28 16:47	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:48	07:05 17:25	06:24 17:59	06:32 19:34	05:49 20:07	05:26 20:34	05:34 20:37	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:15 16:30
10	07:28 16:49	07:04 17:27	06:23 18:01	06:30 19:35	05:47 20:08	05:26 20:34	05:35 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:26 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:26 19:38	05:44 20:11	05:26 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:46 16:43	07:19 16:30
14	07:27 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:38 20:35	06:07 20:03	06:39 19:14	07:11 18:23	06:48 16:42	07:20 16:31
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:57	06:55 17:35	06:11 18:09	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:54 17:37	06:09 18:10	06:18 19:44	05:39 20:16	05:26 20:38	05:41 20:33	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:39	07:22 16:32
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:26 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:15 19:46	05:37 20:18	05:26 20:39	05:43 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:03	06:48 17:42	06:02 18:14	06:11 19:48	05:36 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:09 19:50	05:34 20:22	05:27 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:35	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:55	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:56 18:19	06:06 19:53	05:33 20:23	05:27 20:40	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:05	07:02 16:33	07:26 16:36
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:28 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11		06:51 19:22	06:01 19:56	06:01 20:26	05:31 20:40	05:28 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:38
30	07:16 17:13		06:49 19:23	06:00 19:57	06:00 20:27	05:30 20:39	05:29 20:22	06:24 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14		06:47 19:24		06:00 20:28		05:30 20:21	06:25 19:37		06:31 16:58		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 53 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:26 19:36	06:57 18:44	06:32 16:57	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:29 20:29	05:30 20:39	05:55 20:19	06:27 19:34	06:58 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:32 17:54	06:40 19:28	05:55 20:01	05:28 20:31	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:11 16:31
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:52	07:12 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:47	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
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11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:26 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:26 19:38	05:44 20:11	05:26 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:46 16:43	07:19 16:30
14	07:27 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:38 20:35	06:07 20:03	06:39 19:14	07:11 18:23	06:48 16:42	07:20 16:31
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:41	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:57	06:55 17:35	06:11 18:09	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:54 17:37	06:09 18:10	06:18 19:44	05:39 20:16	05:26 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:53 16:39	07:22 16:32
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:26 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:15 19:46	05:37 20:18	05:26 20:39	05:43 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:03	06:48 17:42	06:02 18:14	06:11 19:48	05:36 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:09 19:50	05:34 20:22	05:27 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:35	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:55	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:56 18:19	06:06 19:53	05:33 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:05	07:02 16:33	07:26 16:36
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:28 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11		06:51 19:22	06:01 19:56	06:01 20:26	05:31 20:40	05:28 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:38
30	07:16 17:13		06:49 19:23	06:00 19:57	06:00 20:27	05:30 20:39	05:29 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14		06:47 19:24		06:00 20:28		05:53 20:21	06:25 19:37		06:31 16:58		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 54 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:26 19:36	06:57 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:29 20:29	05:30 20:39	05:55 20:19	06:27 19:34	06:58 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:32 17:54	06:40 19:28	05:55 20:01	05:28 20:31	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:11 16:31
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:52	07:12 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
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8	07:28 16:47	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
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31	07:15 17:14		06:47 19:24		06:00 20:27		05:53 20:21	06:25 19:37		06:31 16:58		07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 55 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:26 19:36	06:57 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:29 20:29	05:30 20:39	05:55 20:19	06:27 19:34	06:58 18:42	06:33 16:55	07:08 16:31
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Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 56 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (38)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:26 19:36	06:56 18:44	06:32 16:56	07:07 16:31
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26	07:19 17:07	06:42 17:46	05:56 18:19	06:06 19:53	05:33 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:05	07:02 16:33	07:26 16:36
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:28 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	06:50 19:56	06:01 19:56	06:01 20:26	05:31 20:39	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:38
30	07:16 17:12	06:35 19:23	06:49 19:57	06:00 19:57	06:00 20:27	05:30 20:39	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14	06:33 19:24	06:47 19:58	05:59 19:58	05:29 20:27	05:29 20:40	05:53 20:21	06:24 19:37	06:57 16:58	06:31 16:58	07:07 16:39	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 57 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (39)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:27 19:34	06:58 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:32 17:54	06:40 19:28	05:55 20:01	05:28 20:31	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:11 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:52	07:12 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:47	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:48	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:37	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:15 16:30
10	07:28 16:49	07:04 17:27	06:23 18:01	06:30 19:35	05:47 20:08	05:26 20:34	05:35 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:26 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:46 16:43	07:19 16:30
14	07:27 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:38 20:35	06:07 20:03	06:39 19:14	07:11 18:23	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:09	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:54 17:37	06:09 18:10	06:18 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:39	07:22 16:31
19	07:24 16:58	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:26 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:18 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:42	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:27 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:56 18:19	06:06 19:53	05:32 20:23	05:27 20:40	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:04	07:02 16:33	07:26 16:35
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	06:50 19:56	06:01 19:56	06:01 20:26	05:31 20:40	05:28 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:38
30	07:16 17:12	06:35 19:23	06:49 19:57	06:00 19:57	06:00 20:27	05:30 20:39	05:29 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14	06:33 19:24	06:47 19:58	05:58 19:58	05:29 20:28	05:29 20:40	05:53 20:21	06:24 19:37	06:56 16:58	06:31 16:58	07:07 16:39	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 58 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:32 17:54	06:40 19:28	05:55 20:01	05:28 20:31	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:11 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:30	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:52	07:12 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:47	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:48	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:37	06:02 20:10	06:34 19:22	07:05 18:31	06:42 16:47	07:15 16:30
10	07:28 16:49	07:04 17:27	06:23 18:01	06:30 19:35	05:47 20:08	05:26 20:34	05:35 20:37	06:03 20:09	06:35 19:21	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:26 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:38 20:35	06:07 20:03	06:39 19:14	07:11 18:23	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:09	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:54 17:37	06:09 18:10	06:18 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:39	07:22 16:31
19	07:24 16:58	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:26 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:42	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:27 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:56 18:19	06:06 19:53	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:25 17:04	07:02 16:33	07:26 16:35
27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	05:50 19:56	06:01 19:56	05:30 20:26	05:28 20:40	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 19:23	05:49 19:57	06:00 19:57	05:30 20:27	05:29 20:39	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14	06:33 19:24	05:47 19:58	05:29 20:27	05:29 20:27	05:29 20:27	05:53 20:21	06:24 19:37	06:56 16:58	06:31 16:58	07:07 16:39	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 59 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:18	06:28 19:32	06:59 18:41	06:34 16:54	07:09 16:31
4	07:28 16:43	07:11 17:19	06:32 17:54	06:40 19:28	05:55 20:01	05:28 20:30	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:11 16:30
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6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:12 16:30
7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:27 20:33	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:47	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:05	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
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10	07:28 16:49	07:04 17:26	06:23 18:01	06:30 19:35	05:47 20:08	05:26 20:34	05:35 20:37	06:03 20:09	06:35 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:37	06:04 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:26 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:10 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:14	07:11 18:23	06:48 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
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18	07:25 16:58	06:54 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:39	07:22 16:31
19	07:24 16:59	06:52 17:38	06:08 18:11	06:16 19:45	05:38 20:17	05:26 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
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23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
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29	07:17 17:11	06:37 19:22	05:50 19:56	06:01 19:56	05:30 20:26	05:28 20:39	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 19:23	05:49 19:57	06:00 19:57	05:30 20:27	05:29 20:39	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14	06:33 19:24	05:47 19:58	05:59 19:58	05:29 20:27	05:28 20:39	05:53 20:21	06:24 19:37	06:57 16:58	06:31 16:58	07:07 16:39	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 60 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:58 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:18	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:17	06:27 19:32	06:59 18:41	06:34 16:54	07:09 16:31
4	07:28 16:43	07:11 17:19	06:32 17:54	06:40 19:28	05:55 20:01	05:28 20:30	05:31 20:39	05:57 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:10 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	07:11 16:30
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7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:27 20:32	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
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12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
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18	07:25 16:58	06:54 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:39	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
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27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
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29	07:17 17:11	06:37 19:22	05:50 19:56	06:01 19:56	05:30 20:26	05:28 20:39	05:51 20:23	06:22 19:41	06:54 18:48	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 19:23	05:49 19:57	06:00 19:57	05:30 20:27	05:29 20:39	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14	06:33 19:24	05:47 19:58	05:29 20:27	05:29 20:27	05:29 20:27	05:53 20:21	06:24 19:37	06:57 16:58	06:30 16:58	07:07 16:39	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 61 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:59 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
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Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 62 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:17	06:27 19:32	06:59 18:41	06:34 16:54	07:09 16:31
4	07:28 16:43	07:11 17:19	06:32 17:53	06:40 19:28	05:55 20:01	05:28 20:30	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:10 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:30 19:29	07:01 18:37	06:37 16:51	07:11 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:12 16:30
7	07:28 16:46	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:26 20:32	05:33 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:47	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:05	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:48	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:37	06:02 20:10	06:34 19:22	07:05 18:31	06:41 16:47	07:15 16:30
10	07:28 16:49	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:34	05:35 20:37	06:03 20:09	06:35 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:36	06:04 20:07	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:32	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:14	07:11 18:22	06:48 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:37	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:53 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:39	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
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27	07:19 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:39	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	06:50 19:56	06:01 19:56	06:01 20:26	05:30 20:39	05:28 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 19:23	06:49 19:57	06:00 19:57	06:00 20:27	05:30 20:39	05:29 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:28 16:38
31	07:15 17:14	06:33 19:24	06:47 19:58	06:00 19:58	06:00 20:28	05:29 20:40	05:53 20:21	06:24 19:37	06:57 16:58	06:30 16:58	07:07 16:32	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 63 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (45)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:17	06:27 19:32	06:59 18:41	06:34 16:54	07:09 16:31
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13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
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16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:37	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:53 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:23 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:20	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
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27	07:18 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:39	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
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31	07:15 17:14	06:33 19:24	05:47 19:58	05:29 20:27	05:29 20:27	05:29 20:27	05:53 20:21	06:24 19:37	06:57 16:58	06:30 16:58	07:07 16:39	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 64 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:17	06:27 19:32	06:59 18:41	06:34 16:54	07:09 16:31
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13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:14	07:11 18:22	06:48 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
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17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:37	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:53 17:37	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:23 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:20	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:09	06:40 17:48	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:39	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	06:50 19:56	06:01 19:56	06:01 20:26	05:30 20:39	05:28 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 19:23	06:49 19:57	06:00 19:57	06:00 20:27	05:30 20:39	05:29 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:32	07:27 16:38
31	07:15 17:14	06:33 19:24	06:47 19:58	06:00 19:58	06:00 20:27	05:29 20:39	05:53 20:21	06:24 19:37	06:57 16:58	06:30 16:58	07:07 16:32	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 65 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:17	06:27 19:32	06:59 18:41	06:34 16:54	07:09 16:31
4	07:28 16:43	07:11 17:19	06:32 17:53	06:40 19:28	05:55 20:01	05:27 20:30	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:10 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:29 19:29	07:01 18:37	06:36 16:51	07:11 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:31 19:27	07:02 18:36	06:38 16:50	07:12 16:30
7	07:28 16:45	07:07 17:23	06:27 17:57	06:35 19:32	05:51 20:04	05:26 20:32	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:05	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:48	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:06	05:26 20:34	05:34 20:37	06:02 20:10	06:34 19:22	07:05 18:31	06:41 16:47	07:15 16:30
10	07:28 16:49	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:34	05:34 20:37	06:03 20:09	06:35 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:36	06:04 20:07	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:13	07:11 18:22	06:48 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:37	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:53 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:42 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:23 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:20	05:26 20:39	05:45 20:28	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:09	06:40 17:47	05:54 18:20	06:04 19:53	05:32 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:28 20:39	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	06:50 19:56	06:01 19:56	06:01 20:26	05:30 20:39	05:51 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:36 19:23	06:49 19:57	06:00 19:57	06:00 20:27	05:30 20:39	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:27 16:38
31	07:15 17:14	06:35 19:24	06:47 19:58	06:00 19:58	06:00 20:28	05:29 20:40	05:53 20:21	06:24 19:37	06:56 16:58	06:30 16:58	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 66 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:17	06:27 19:32	06:58 18:41	06:34 16:54	07:09 16:31
4	07:28 16:43	07:11 17:19	06:32 17:53	06:40 19:28	05:55 20:01	05:27 20:30	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:10 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:29 19:29	07:01 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:12 16:30
7	07:28 16:45	07:07 17:23	06:27 17:57	06:35 19:32	05:51 20:04	05:26 20:32	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:05	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
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10	07:28 16:49	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:07	05:26 20:34	05:34 20:37	06:03 20:09	06:35 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:36	06:04 20:07	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:13	07:11 18:22	06:47 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:31
16	07:26 16:55	06:56 17:34	06:12 18:07	06:21 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:37	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:58	06:53 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:23 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:24 16:33
23	07:21 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:20	05:26 20:39	05:45 20:28	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:09	06:40 17:47	05:54 18:19	06:04 19:53	05:32 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:39	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	05:50 19:56	06:01 19:56	05:30 20:26	05:28 20:39	05:51 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 19:23	05:49 19:57	06:00 19:57	05:30 20:27	05:29 20:39	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:27 16:38
31	07:15 17:14	06:33 19:24	05:47 19:58	05:59 19:58	05:29 20:27	05:29 20:39	05:53 20:21	06:24 19:37	06:57 16:58	06:30 16:58	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	345	296	286
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: 67 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 2 rows of data for sunshine probability.

Operational time

Table with 13 columns (N, NNE, ENE, E, ESE, SSE, S, SSW, WSW, W, WNW, NNW, Sum) and 2 rows of data for operational time.

Main shadow calculation table with columns for months (January-December) and rows for each day (1-31) showing sun rise/set times and minutes with flicker.

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

Matrix defining columns for Day in month, Sun rise/set, and First time with flicker.

SHADOW - Calendar per WTG

WTG: 68 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:54 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:30 20:39	05:55 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:56 20:17	06:27 19:32	06:59 18:41	06:34 16:54	07:09 16:31
4	07:28 16:43	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:31 20:39	05:57 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:10 16:30
5	07:28 16:44	07:10 17:20	06:31 17:55	06:39 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:58 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:11 16:30
6	07:28 16:45	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:12 16:30
7	07:28 16:45	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:26 20:32	05:32 20:38	06:00 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:05	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:37	06:02 20:10	06:34 19:22	07:05 18:31	06:41 16:47	07:15 16:30
10	07:28 16:48	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:34	05:34 20:37	06:03 20:09	06:35 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:26 20:35	05:35 20:36	06:04 20:07	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:14	07:11 18:22	06:48 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:53 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:26 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:36	07:25 16:33
23	07:22 17:04	06:46 17:43	06:01 18:15	06:10 19:49	05:35 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:34
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:09	06:40 17:47	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	06:03 20:25	05:31 20:39	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	06:50 19:56	06:01 19:56	06:01 20:26	05:30 20:39	05:51 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 19:23	06:49 19:57	06:00 19:57	06:00 20:27	05:30 20:39	05:52 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:28 16:38
31	07:15 17:14	06:33 19:24	06:47 19:58	06:00 19:58	06:00 20:27	05:29 20:39	05:53 20:21	06:24 19:37	06:57 16:58	06:30 16:58	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 69 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (51)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	06:47-07:23/36 20:39	05:29 20:39	06:53-07:27/34 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	06:46-07:23/37 20:39	05:29 20:39	06:54-07:28/34 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	06:47-07:23/36 20:39	05:30 20:39	06:54-07:28/34 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:31
4	07:28 16:43	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	06:47-07:22/35 20:31	05:31 20:39	06:54-07:29/35 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:11 16:30
5	07:28 16:43	07:10 17:20	06:31 17:55	06:39 19:29	05:53 20:02	05:27 20:31	06:47-07:23/36 20:31	05:31 20:39	06:54-07:28/34 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:12 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	06:48-07:23/35 20:32	05:32 20:38	06:54-07:29/35 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:13 16:30
7	07:28 16:45	07:08 17:23	06:28 17:57	06:35 19:32	05:51 20:04	05:26 20:33	06:48-07:23/35 20:33	05:32 20:38	06:54-07:29/35 20:13	06:32 19:26	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:34 19:33	05:50 20:06	05:26 20:33	06:48-07:22/34 20:33	05:33 20:38	06:54-07:29/35 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	06:48-07:23/35 20:34	05:34 20:37	06:54-07:30/36 20:10	06:34 19:22	07:05 18:31	06:41 16:47	07:15 16:30
10	07:28 16:48	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:34	06:49-07:23/34 20:37	05:34 20:37	06:54-07:30/36 20:09	06:35 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:50	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35	06:53-07:14/21 20:35	05:35 20:37	06:54-07:30/36 20:08	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	06:52-07:15/23 20:35	05:36 20:36	06:54-07:31/37 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	06:50-07:17/27 20:36	05:37 20:36	06:55-07:31/36 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	06:49-07:17/28 20:36	05:37 20:35	06:54-07:31/37 20:03	06:39 19:14	07:11 18:22	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	06:49-07:18/29 20:37	05:38 20:34	06:55-07:31/36 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:13 18:07	06:21 19:42	05:41 20:14	05:25 20:37	06:48-07:19/31 20:37	05:39 20:34	06:55-07:32/37 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	06:47-07:19/32 20:38	05:40 20:33	06:55-07:32/37 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:54 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	06:47-07:21/34 20:38	05:41 20:32	06:55-07:31/36 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	06:47-07:21/34 20:38	05:41 20:32	06:55-07:31/36 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	06:46-07:21/35 20:39	05:42 20:31	06:55-07:32/37 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:26 20:39	06:46-07:21/35 20:39	05:43 20:30	06:56-07:32/36 19:53	06:46 19:01	07:19 18:12	06:56 16:36	07:24 16:33
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	06:45-07:21/36 20:39	05:44 20:29	06:56-07:32/36 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	06:46-07:22/36 20:39	05:45 20:29	06:57-07:32/35 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39	06:46-07:22/36 20:39	05:46 20:28	06:57-07:32/35 19:49	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:27 20:39	06:53-07:22/37 20:39	05:47 20:27	06:57-07:30/33 19:47	06:50 18:54	07:23 17:06	07:01 16:34	07:26 16:35
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:40	06:46-07:23/37 20:40	05:48 20:26	06:57-07:30/33 19:45	06:51 18:53	07:24 17:04	07:02 16:33	07:26 16:35
27	07:19 17:08	06:40 17:47	05:54 18:20	06:04 19:54	05:32 20:24	05:27 20:40	06:46-07:22/36 20:40	05:49 20:25	06:58-07:30/32 19:44	06:52 18:51	07:25 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:03 19:55	05:31 20:25	05:28 20:40	06:45-07:22/37 20:40	05:50 20:24	06:59-07:29/30 19:42	06:53 18:49	07:26 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:38 17:48	05:51 18:22	06:02 19:56	05:30 20:26	05:28 20:40	06:46-07:23/37 20:40	05:51 20:23	06:59-07:28/29 19:41	06:54 18:47	07:27 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:37 17:47	05:50 18:23	06:00 19:57	05:30 20:27	05:29 20:39	06:46-07:22/36 20:39	05:52 20:22	07:00-07:28/28 19:39	06:55 18:46	07:28 16:59	07:06 16:31	07:28 16:38
31	07:15 17:14	06:36 17:46	05:49 18:24	05:59 19:58	05:29 20:28	05:29 20:39	06:46-07:23/37 20:39	05:53 20:21	07:01-07:27/26 19:37	06:56 18:45	07:29 16:58	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285	
Sum of minutes with flicker	0	0	0	0	724	1011	1066	69	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: 70 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:36 17:51	06:44 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:42	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:55 20:18	06:27 19:32	06:59 18:41	06:34 16:54	07:10 16:30
4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:31	05:31 20:39	05:56 20:16	06:28 19:31	07:00 18:39	06:35 16:53	07:11 16:30
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6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:31	05:52 20:03	05:27 20:32	05:32 20:38	05:59 20:14	06:30 19:27	07:02 18:36	06:38 16:50	07:13 16:30
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8	07:28 16:46	07:06 17:24	06:26 17:58	06:33 19:33	05:49 20:05	05:26 20:33	05:33 20:38	06:01 20:11	06:33 19:24	07:04 18:32	06:40 16:48	07:14 16:30
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10	07:28 16:48	07:04 17:26	06:23 18:00	06:30 19:35	05:47 20:08	05:26 20:34	05:34 20:37	06:03 20:09	06:35 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:49	07:03 17:28	06:21 18:02	06:29 19:36	05:46 20:09	05:25 20:35	05:35 20:37	06:04 20:07	06:36 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:51	07:02 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:37 20:36	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:14	07:11 18:22	06:48 16:42	07:20 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:13 18:07	06:20 19:42	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:53 17:36	06:09 18:10	06:17 19:44	05:39 20:16	05:25 20:38	05:41 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:59	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 16:32
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
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22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:33
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28	07:18 17:10	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:28 20:40	05:50 20:24	06:21 19:42	06:53 18:49	06:27 17:02	07:04 16:32	07:27 16:37
29	07:17 17:11	06:37 19:22	05:50 19:56	06:01 19:56	05:30 20:26	05:28 20:40	05:51 20:23	06:22 19:41	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
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31	07:15 17:14	06:33 19:24	05:47 19:58	05:29 20:28	05:29 20:28	05:29 20:28	05:53 20:21	06:24 19:37	06:30 16:58	06:30 16:58	07:07 16:32	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 71 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:55 20:00	05:27 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:08 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:02 18:35	06:38 16:50	07:12 16:30
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12	07:27 16:50	07:01 17:29	06:19 18:02	06:27 19:37	05:45 20:09	05:25 20:35	05:36 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:35	06:05 20:05	06:37 19:15	07:09 18:24	06:46 16:43	07:18 16:30
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17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:42	05:39 20:15	05:25 20:37	05:39 20:33	06:10 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:21 16:31
18	07:24 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:39 20:16	05:25 20:38	05:40 20:32	06:11 19:57	06:43 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 17:00	06:50 17:39	06:05 18:12	06:14 19:46	05:37 20:18	05:25 20:38	05:42 20:31	06:13 19:54	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:12 19:47	05:36 20:18	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:19	05:26 20:39	05:44 20:29	06:15 19:51	06:47 18:59	07:20 18:10	06:57 16:35	07:24 16:33
23	07:21 17:03	06:46 17:42	06:00 18:15	06:09 19:49	05:34 20:20	05:26 20:39	05:45 20:28	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:04	06:45 17:44	05:59 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:46 20:27	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
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27	07:18 17:08	06:40 17:47	05:53 18:19	06:04 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:44	06:52 18:51	06:25 17:03	07:03 16:32	07:27 16:36
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:31 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:51 18:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12	06:36 17:50	05:50 18:22	06:00 19:56	05:29 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:59	07:06 16:31	07:27 16:38
31	07:15 17:13	06:35 17:51	05:49 18:23	05:59 19:57	05:29 20:28	05:29 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 72 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (54)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
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4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:31	06:59 18:39	06:35 16:52	07:10 16:30
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13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
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16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:30
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18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:44	05:39 20:16	05:25 20:38	05:40 20:32	06:11 19:58	06:43 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:23 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:20	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
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28	07:18 17:10	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
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Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 73 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (55)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:54	07:09 16:30
4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:31	06:59 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:36 16:51	07:11 16:30
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Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 74 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (56)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:54	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
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12	07:27 16:50	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:36 19:17	07:08 18:25	06:45 16:44	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:35	06:06 20:05	06:37 19:15	07:09 18:24	06:46 16:43	07:19 16:30
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16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:30
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:42	05:40 20:15	05:25 20:37	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
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19	07:24 16:58	06:52 17:37	06:07 18:10	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:23 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:18 18:11	06:56 16:36	07:24 16:32
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23	07:21 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:20	05:26 20:39	05:45 20:28	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:26 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:33	07:26 16:34
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31	07:15 17:13	06:36 19:24	05:49 19:58	05:59 19:58	05:29 20:28	05:29 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 75 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (57)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
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21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:19	05:26 20:39	05:44 20:29	06:15 19:51	06:47 18:59	07:20 18:10	06:57 16:35	07:24 16:33
23	07:21 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:20	05:26 20:39	05:45 20:28	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:04	06:45 17:44	05:59 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:26 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:33	07:26 16:34
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:52	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:08	06:40 17:47	05:54 18:19	06:04 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:44	06:52 18:51	06:25 17:03	07:03 16:32	07:27 16:36
28	07:18 17:10	06:38 17:48	05:52 18:20	06:02 19:54	05:31 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:48	05:51 18:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:36 17:49	05:50 18:22	06:00 19:56	05:30 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:27 16:38
31	07:15 17:13	06:35 17:50	05:49 18:23	06:00 19:57	05:30 20:28	05:28 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 76 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (58)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:28 20:28	05:29 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:54	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:02 18:35	06:38 16:50	07:12 16:30
7	07:28 16:45	07:07 17:22	06:27 17:57	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:13	06:31 19:25	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:33 19:33	05:49 20:05	05:26 20:33	05:33 20:38	06:00 20:11	06:32 19:24	07:04 18:32	06:40 16:48	07:14 16:30
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11	07:27 16:49	07:03 17:27	06:21 18:01	06:28 19:36	05:46 20:08	05:25 20:35	05:35 20:36	06:03 20:07	06:35 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:50	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:44	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:35	06:05 20:05	06:37 19:15	07:09 18:24	06:46 16:43	07:19 16:30
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16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:40 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:30
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:42	05:40 20:15	05:25 20:37	05:39 20:33	06:10 19:59	06:42 19:08	07:14 18:17	06:51 16:39	07:22 16:31
18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:44	05:39 20:16	05:25 20:38	05:40 20:32	06:11 19:57	06:43 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:23 17:00	06:50 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:38	05:42 20:31	06:13 19:54	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:19	05:26 20:39	05:44 20:29	06:15 19:51	06:47 18:59	07:20 18:10	06:57 16:35	07:24 16:33
23	07:21 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:20	05:26 20:39	05:45 20:28	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:04	06:45 17:44	05:59 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:26 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:33	07:26 16:34
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27	07:18 17:08	06:40 17:47	05:54 18:19	06:04 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:44	06:52 18:51	06:25 17:03	07:03 16:32	07:27 16:36
28	07:18 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:31 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:51 18:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:36 17:50	05:50 18:22	06:00 19:56	05:30 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:27 16:38
31	07:15 17:13	06:35 17:51	05:49 18:23	05:59 19:57	05:29 20:28	05:29 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 77 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (59)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
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4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:31	07:00 18:39	06:35 16:52	07:10 16:30
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13	07:27 16:51	07:00 17:30	06:18 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
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19	07:24 16:58	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:32
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21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:43	06:01 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
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31	07:15 17:13	06:33 17:49	05:47 18:24	06:00 19:58	05:29 20:28	05:29 20:40	05:52 20:21	06:24 19:37	06:30 18:44	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 78 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (60)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:58-07:14/16 19:25	06:45 19:58	05:58 20:28	05:29 20:39	05:29 20:20	05:53 19:36	06:25 18:44	06:56 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:58-07:14/16 19:26	06:43 19:59	05:57 20:29	05:28 20:39	05:29 20:19	05:54 19:34	06:26 18:42	06:57 16:55	07:08 16:31
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5	07:28 16:43	07:10 17:20	06:31 17:55	07:00-07:10/10 19:29	06:38 20:02	05:53 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:57 16:51	07:12 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	07:03-07:06/3 19:30	06:37 20:03	05:52 20:32	05:32 20:38	05:58 20:14	06:30 19:27	07:02 18:35	06:58 16:50	07:13 16:30
7	07:28 16:45	07:08 17:22	06:27 17:57	19:32	06:35 20:04	05:51 20:33	05:32 20:38	05:59 20:13	06:31 19:26	07:03 18:34	06:59 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	19:33	06:33 20:05	05:49 20:33	05:33 20:38	06:00 20:11	06:32 19:24	07:04 18:32	07:36-07:44/8 16:48	07:14 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	19:34	06:32 20:07	05:48 20:34	05:34 20:37	06:01 20:10	06:33 19:22	07:05 18:30	07:35-07:46/11 16:47	07:15 16:30
10	07:28 16:48	07:04 17:26	06:23 18:00	19:35	06:30 20:08	05:47 20:34	05:34 20:37	06:03 20:09	06:34 19:20	07:06 18:29	07:33-07:47/14 16:46	07:16 16:30
11	07:27 16:49	07:03 17:28	06:21 18:02	19:36	06:28 20:09	05:46 20:35	05:35 20:37	06:04 20:07	06:36 19:19	07:07 18:27	07:32-07:47/15 16:45	07:17 16:30
12	07:27 16:50	07:01 17:29	06:19 18:03	19:37	06:27 20:10	05:45 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	07:31-07:47/16 16:44	07:18 16:30
13	07:27 16:52	07:00 17:30	06:18 18:04	19:38	06:25 20:11	05:44 20:36	05:36 20:36	06:06 20:05	06:38 19:15	07:09 18:24	07:31-07:47/16 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	19:39	06:24 20:12	05:43 20:36	05:25 20:35	06:07 20:03	06:39 19:13	07:11 18:22	07:31-07:46/15 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	19:40	06:22 20:13	05:42 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	07:32-07:45/13 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:12 18:07	19:41	06:20 20:14	05:41 20:37	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	07:34-07:45/11 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	19:43	06:19 20:15	05:40 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	07:35-07:43/8 16:39	07:22 16:31
18	07:25 16:57	06:53 17:36	06:09 18:09	19:44	06:17 20:16	05:39 20:38	05:40 20:32	06:11 19:58	06:43 19:06	07:15 18:16	07:37-07:39/2 16:38	07:22 16:31
19	07:24 16:58	06:52 17:38	06:07 18:11	19:45	06:16 20:17	05:38 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	16:37	07:23
20	07:24 17:00	06:51 17:39	06:06 18:12	19:46	06:14 20:18	05:37 20:39	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	16:36	07:24
21	07:23 17:01	06:49 17:40	06:04 18:13	19:47	06:13 20:19	05:36 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:11	16:35	07:24
22	07:22 17:02	06:48 17:41	06:02 18:14	19:48	06:11 20:20	05:35 20:39	05:44 20:29	06:15 19:52	06:47 19:00	07:20 18:10	16:34	07:25
23	07:22 17:03	06:46 17:43	06:01 18:15	19:49	06:10 20:21	05:34 20:39	05:45 20:28	06:16 19:48	06:48 18:58	07:21 18:09	16:33	07:26
24	07:21 17:05	06:45 17:44	07:04-07:10/6 05:59	19:50	06:08 20:21	05:34 20:39	05:26 20:28	06:17 19:48	06:49 18:56	07:22 18:07	16:32	07:26
25	07:20 17:06	06:43 17:45	07:03-07:12/9 05:57	19:51	06:07 20:22	05:33 20:39	05:26 20:27	06:18 19:47	06:50 18:54	07:23 17:06	16:31	07:26
26	07:19 17:07	06:42 17:46	07:01-07:13/12 05:55	19:52	06:05 20:23	05:32 20:39	05:27 20:26	06:19 19:45	06:51 18:53	07:24 17:04	16:30	07:26
27	07:19 17:08	06:40 17:47	07:00-07:14/14 05:54	19:54	06:04 20:24	05:31 20:40	05:27 20:25	06:20 19:44	06:52 18:51	07:25 17:03	16:29	07:27
28	07:18 17:10	06:39 17:49	06:58-07:14/16 05:52	19:55	06:02 20:25	05:31 20:40	05:28 20:24	06:21 19:42	06:53 18:49	07:26 17:01	16:28	07:27
29	07:17 17:11	06:38 17:48	18:21 19:22	19:56	06:01 20:26	05:30 20:40	05:28 20:23	06:22 19:41	06:54 18:47	07:27 17:00	16:27	07:27
30	07:16 17:12	06:37 17:47	18:20 19:23	19:57	06:00 20:27	05:29 20:39	05:27 20:22	06:23 19:39	06:55 18:46	07:28 16:59	16:26	07:28
31	07:15 17:13	06:36 17:46	18:19 19:24	19:58	05:59 20:28	05:28 20:40	05:26 20:21	06:24 19:37	06:56 18:45	07:29 16:58	16:25	07:28
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
Sum of minutes with flicker	0	57	73	0	0	0	0	0	0	129	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: 79 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (61)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:41	06:34 16:54	07:09 16:30
4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:31	07:00 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:37 16:51	07:11 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:26 20:32	05:32 20:38	05:58 20:14	06:30 19:27	07:02 18:35	06:38 16:50	07:12 16:30
7	07:28 16:45	07:08 17:22	06:27 17:57	06:35 19:32	05:51 20:04	05:26 20:33	05:32 20:38	05:59 20:13	06:31 19:25	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:33 19:33	05:49 20:05	05:26 20:33	05:33 20:38	06:00 20:11	06:32 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:07	05:26 20:34	05:34 20:37	06:01 20:10	06:33 19:22	07:05 18:30	06:41 16:47	07:15 16:30
10	07:28 16:48	07:04 17:26	06:22 18:00	06:30 19:35	05:47 20:08	05:25 20:34	05:34 20:37	06:02 20:09	06:34 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:49	07:03 17:27	06:21 18:01	06:28 19:36	05:46 20:09	05:25 20:35	05:35 20:36	06:04 20:07	06:35 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:50	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:36	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:13	07:11 18:22	06:48 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:30
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:44	05:39 20:16	05:25 20:38	05:40 20:32	06:11 19:58	06:43 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:24 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:24 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:42	06:00 18:15	06:10 19:49	05:34 20:21	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:35	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:26 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:34
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:08	06:40 17:47	05:54 18:19	06:04 19:54	05:31 20:24	05:27 20:40	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:32	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:27 20:40	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:50 18:22	06:01 19:56	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 17:49	05:49 18:23	06:00 19:57	05:30 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:28 16:38
31	07:15 17:13	06:33 17:49	05:47 18:24	06:00 19:58	05:29 20:28	05:29 20:40	05:52 20:21	06:24 19:37	06:57 18:44	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 80 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (62)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June
1	07:28 08:01-08:20/19 16:40	07:14 17:15	06:37 06:56-07:05/9 17:50	06:45 19:25	05:58 19:58	05:29 20:28
2	07:28 08:01-08:21/20 16:41	07:13 17:16	06:36 06:55-07:06/11 17:51	06:43 19:26	05:57 19:59	05:28 20:29
3	07:28 08:01-08:21/20 16:42	07:12 17:17	06:34 06:53-07:09/16 17:52	06:42 19:27	05:56 20:00	05:28 20:30
4	07:28 08:01-08:22/21 16:42	07:11 17:19	06:32 06:51-07:10/19 17:53	06:40 19:28	05:54 20:01	05:27 20:31
5	07:28 08:01-08:22/21 16:43	07:10 17:20	06:31 06:50-07:13/23 17:55	06:38 19:29	05:53 20:02	05:27 20:31
6	07:28 08:01-08:23/22 16:44	07:09 17:21	06:29 06:48-07:13/25 17:56	06:37 19:31	05:52 20:03	05:27 20:32
7	07:28 08:02-08:23/21 16:45	07:08 17:22	06:27 06:47-07:15/28 17:57	06:35 19:32	05:51 20:04	05:26 20:33
8	07:28 08:02-08:23/21 16:46	07:06 17:24	06:26 06:45-07:15/30 17:58	06:33 19:33	05:49 20:06	05:26 20:33
9	07:28 08:02-08:23/21 16:47	07:05 17:25	06:24 06:43-07:15/32 17:59	06:32 19:34	05:48 20:07	05:26 20:34
10	07:28 08:03-08:23/20 16:48	07:04 17:26	06:23 06:43-07:16/33 18:00	06:30 19:35	05:47 20:08	05:26 20:34
11	07:27 08:03-08:23/20 16:49	07:03 17:28	06:21 06:42-07:16/34 18:02	06:28 19:36	05:46 20:09	05:25 20:35
12	07:27 08:05-08:23/18 16:50	07:02 17:29	06:19 06:41-07:16/35 18:03	06:27 19:37	05:45 20:10	05:25 20:35
13	07:27 08:06-08:23/17 16:52	07:00 17:30	06:18 06:40-07:15/35 18:04	06:25 19:38	05:44 20:11	05:25 20:36
14	07:27 08:06-08:23/17 16:53	06:59 17:31	06:16 06:41-07:15/34 18:05	06:24 19:39	05:43 20:12	05:25 20:36
15	07:26 08:08-08:23/15 16:54	06:58 17:33	06:14 06:41-07:14/33 18:06	06:22 19:40	05:42 20:13	05:25 20:37
16	07:26 08:09-08:21/12 16:55	06:56 17:34	06:12 06:41-07:13/32 18:07	06:20 19:42	05:41 20:14	05:25 20:37
17	07:25 08:11-08:21/10 16:56	06:55 17:35	06:11 06:42-07:13/31 18:08	06:19 19:43	05:40 20:15	05:25 20:38
18	07:25 08:13-08:19/6 16:57	06:53 17:36	06:09 06:42-07:12/30 18:09	06:17 19:44	05:39 20:16	05:25 20:38
19	07:24 16:59	06:52 17:38	06:07 06:42-07:10/28 18:11	06:16 19:45	05:38 20:17	05:25 20:38
20	07:24 17:00	06:51 17:39	06:06 06:43-07:08/25 18:12	06:14 19:46	05:37 20:18	05:25 20:39
21	07:23 17:01	06:49 17:40	06:04 06:45-07:07/22 18:13	06:13 19:47	05:36 20:19	05:26 20:39
22	07:22 17:02	06:48 17:41	06:02 06:46-07:04/18 18:14	06:11 19:48	05:35 20:20	05:26 20:39
23	07:22 17:03	06:46 17:43	06:01 06:49-07:01/12 18:15	06:10 19:49	05:34 20:21	05:26 20:39
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:22	05:26 20:39
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:26 20:39
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:40
27	07:19 17:08	06:40 07:00-07:03/3 17:47	05:54 18:19	06:04 19:54	05:31 20:24	05:27 20:40
28	07:18 17:10	06:39 06:58-07:05/7 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:28 20:40
29	07:17 17:11		06:50 19:22	06:01 19:56	05:30 20:26	05:28 20:40
30	07:16 17:12		06:49 19:23	06:00 19:57	05:30 20:27	05:28 20:40
31	07:15 17:13		06:47 19:24		05:29 20:28	
Potential sun hours	295	296	369	400	450	455
Sum of minutes with flicker	321	10	595	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: 80 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (62)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	July	August	September	October	November	December
1	05:29 20:39	05:53 20:20	06:25 19:36	06:56 07:21-07:55/34 18:44	06:32 16:56	07:07 07:47-08:06/19 16:31
2	05:29 20:39	05:54 20:19	06:26 19:34	06:57 07:20-07:55/35 18:42	06:33 16:55	07:08 07:46-08:06/20 16:31
3	05:30 20:39	05:55 20:18	06:27 19:32	06:58 07:20-07:54/34 18:41	06:34 16:54	07:10 07:47-08:07/20 16:30
4	05:30 20:39	05:56 20:16	06:28 19:31	07:00 07:20-07:53/33 18:39	06:35 16:52	07:11 07:47-08:08/21 16:30
5	05:31 20:39	05:57 20:15	06:29 19:29	07:01 07:21-07:52/31 18:37	06:37 16:51	07:12 07:47-08:08/21 16:30
6	05:32 20:38	05:58 20:14	06:30 19:27	07:02 07:22-07:51/29 18:35	06:38 16:50	07:13 07:47-08:09/22 16:30
7	05:32 20:38	05:59 20:13	06:31 19:26	07:03 07:23-07:50/27 18:34	06:39 16:49	07:14 07:48-08:09/21 16:30
8	05:33 20:38	06:00 20:11	06:32 19:24	07:04 07:24-07:48/24 18:32	06:40 16:48	07:14 07:49-08:10/21 16:30
9	05:34 20:37	06:02 20:10	06:33 19:22	07:05 07:26-07:47/21 18:30	06:41 16:47	07:15 07:50-08:10/20 16:30
10	05:34 20:37	06:03 20:09	06:35 19:20	07:06 07:27-07:45/18 18:29	06:43 16:46	07:16 07:50-08:10/20 16:30
11	05:35 20:37	06:04 20:08	06:36 19:19	07:07 07:28-07:42/14 18:27	06:44 16:45	07:17 07:51-08:10/19 16:30
12	05:36 20:36	06:05 20:06	06:37 19:17	07:08 07:29-07:39/10 18:26	06:45 16:44	07:18 07:52-08:11/19 16:30
13	05:36 20:36	06:06 20:05	06:38 19:15	07:09 07:30-07:38/8 18:24	06:46 16:43	07:19 07:53-08:12/19 16:30
14	05:37 20:35	06:07 20:03	06:39 19:13	07:11 07:31-07:36/5 18:22	06:48 16:42	07:20 07:54-08:12/18 16:30
15	05:38 20:34	06:08 20:02	06:40 19:12	07:12 07:32-07:34/2 18:21	06:49 16:41	07:20 07:54-08:12/18 16:30
16	05:39 20:34	06:09 20:01	06:41 19:10	07:13 18:19	06:50 16:40	07:21 07:55-08:13/18 16:31
17	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 07:56-08:14/18 16:31
18	05:40 20:32	06:11 19:58	06:43 19:07	07:15 18:16	06:52 16:38	07:22 07:56-08:13/17 16:31
19	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:15	06:54 16:38	07:23 07:57-08:14/17 16:32
20	05:42 20:31	06:13 19:55	06:45 07:36-07:46/10 19:03	07:17 18:13	06:55 16:37	07:24 07:57-08:14/17 16:32
21	05:43 20:30	06:14 19:53	06:46 07:32-07:49/17 19:01	07:19 18:12	06:56 16:36	07:24 07:58-08:15/17 16:32
22	05:44 20:29	06:15 19:52	06:47 07:30-07:51/21 19:00	07:20 18:10	06:57 16:35	07:25 07:58-08:15/17 16:33
23	05:45 20:29	06:16 19:50	06:48 07:28-07:52/24 18:58	07:21 18:09	06:58 16:35	07:25 07:59-08:16/17 16:33
24	05:46 20:28	06:17 19:49	06:49 07:26-07:53/27 18:56	07:22 18:07	07:00 07:50-07:56/6 16:34	07:26 07:59-08:16/17 16:34
25	05:47 20:27	06:18 19:47	06:50 07:24-07:54/30 18:54	06:23 17:06	07:01 07:49-07:59/10 16:34	07:26 08:00-08:17/17 16:35
26	05:48 20:26	06:19 19:45	06:51 07:23-07:54/31 18:53	06:24 17:04	07:02 07:48-08:00/12 16:33	07:26 08:00-08:17/17 16:35
27	05:49 20:25	06:20 19:44	06:52 07:22-07:55/33 18:51	06:26 17:03	07:03 07:47-08:02/15 16:33	07:27 08:00-08:18/18 16:36
28	05:50 20:24	06:21 19:42	06:53 07:22-07:56/34 18:49	06:27 17:01	07:04 07:46-08:03/17 16:32	07:27 08:00-08:18/18 16:36
29	05:50 20:23	06:22 19:41	06:54 07:22-07:56/34 18:47	06:28 17:00	07:05 07:46-08:03/17 16:32	07:27 08:01-08:19/18 16:37
30	05:51 20:22	06:23 19:39	06:55 07:21-07:55/34 18:46	06:29 16:59	07:06 07:46-08:04/18 16:31	07:28 08:01-08:20/19 16:38
31	05:52 20:21	06:24 19:37	 19:37	06:30 16:57	 16:30	07:28 08:01-08:20/19 16:39
Potential sun hours	461	429	375	344	296	285
Sum of minutes with flicker	0	0	295	325	95	579

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: 81 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (63)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:40	07:14 17:15	06:37 17:50	06:45 19:25	05:58 19:58	05:29 20:28	05:29 20:39	05:53 20:20	06:25 19:36	06:56 18:44	06:32 16:56	07:07 16:31
2	07:28 16:41	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:19	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:31
3	07:28 16:41	07:12 17:17	06:34 17:52	06:42 19:27	05:56 20:00	05:28 20:30	05:30 20:39	05:55 20:17	06:27 19:32	06:58 18:41	06:34 16:54	07:09 16:30
4	07:28 16:42	07:11 17:19	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:31	07:00 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:31 17:54	06:38 19:29	05:53 20:02	05:27 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:01 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:09 17:21	06:29 17:56	06:37 19:30	05:52 20:03	05:27 20:32	05:32 20:38	05:58 20:14	06:30 19:27	07:02 18:35	06:38 16:50	07:12 16:30
7	07:28 16:45	07:07 17:22	06:27 17:57	06:35 19:32	05:51 20:04	05:26 20:32	05:32 20:38	05:59 20:13	06:31 19:25	07:03 18:34	06:39 16:49	07:13 16:30
8	07:28 16:46	07:06 17:24	06:26 17:58	06:33 19:33	05:49 20:05	05:26 20:33	05:33 20:38	06:00 20:11	06:32 19:24	07:04 18:32	06:40 16:48	07:14 16:30
9	07:28 16:47	07:05 17:25	06:24 17:59	06:32 19:34	05:48 20:06	05:26 20:34	05:34 20:37	06:01 20:10	06:33 19:22	07:05 18:30	06:41 16:47	07:15 16:30
10	07:28 16:48	07:04 17:26	06:22 18:00	06:30 19:35	05:47 20:08	05:25 20:34	05:34 20:37	06:03 20:09	06:34 19:20	07:06 18:29	06:43 16:46	07:16 16:30
11	07:27 16:49	07:03 17:28	06:21 18:01	06:28 19:36	05:46 20:09	05:25 20:35	05:35 20:36	06:04 20:07	06:35 19:19	07:07 18:27	06:44 16:45	07:17 16:30
12	07:27 16:50	07:01 17:29	06:19 18:03	06:27 19:37	05:45 20:10	05:25 20:35	05:36 20:36	06:05 20:06	06:37 19:17	07:08 18:26	06:45 16:44	07:18 16:30
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:44 20:11	05:25 20:36	05:36 20:35	06:06 20:05	06:38 19:15	07:09 18:24	06:46 16:43	07:19 16:30
14	07:26 16:53	06:59 17:31	06:16 18:05	06:24 19:39	05:43 20:12	05:25 20:36	05:37 20:35	06:07 20:03	06:39 19:13	07:11 18:22	06:48 16:42	07:19 16:30
15	07:26 16:54	06:58 17:33	06:14 18:06	06:22 19:40	05:42 20:13	05:25 20:37	05:38 20:34	06:08 20:02	06:40 19:12	07:12 18:21	06:49 16:41	07:20 16:30
16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:41 20:14	05:25 20:37	05:39 20:34	06:09 20:00	06:41 19:10	07:13 18:19	06:50 16:40	07:21 16:31
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:43	05:40 20:15	05:25 20:38	05:40 20:33	06:10 19:59	06:42 19:08	07:14 18:18	06:51 16:39	07:22 16:31
18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:44	05:39 20:16	05:25 20:38	05:40 20:32	06:11 19:58	06:43 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:38	06:07 18:11	06:16 19:45	05:38 20:17	05:25 20:38	05:41 20:32	06:12 19:56	06:44 19:05	07:16 18:14	06:54 16:37	07:23 16:32
20	07:23 17:00	06:51 17:39	06:06 18:12	06:14 19:46	05:37 20:18	05:25 20:38	05:42 20:31	06:13 19:55	06:45 19:03	07:17 18:13	06:55 16:37	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:13 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:19 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:26 20:39	05:44 20:29	06:15 19:52	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:33
23	07:22 17:03	06:46 17:43	06:00 18:15	06:10 19:49	05:34 20:20	05:26 20:39	05:45 20:29	06:16 19:50	06:48 18:58	07:21 18:09	06:58 16:35	07:25 16:33
24	07:21 17:05	06:45 17:44	05:59 18:16	06:08 19:50	05:34 20:21	05:26 20:39	05:46 20:28	06:17 19:48	06:49 18:56	07:22 18:07	07:00 16:34	07:26 16:34
25	07:20 17:06	06:43 17:45	05:57 18:17	06:07 19:51	05:33 20:22	05:26 20:39	05:47 20:27	06:18 19:47	06:50 18:54	06:23 17:06	07:01 16:34	07:26 16:34
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:27 20:39	05:48 20:26	06:19 19:45	06:51 18:53	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:08	06:40 17:47	05:54 18:19	06:04 19:53	05:31 20:24	05:27 20:39	05:49 20:25	06:20 19:44	06:52 18:51	06:26 17:03	07:03 16:33	07:27 16:36
28	07:18 17:10	06:39 17:49	05:52 18:21	06:02 19:55	05:31 20:25	05:28 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:50 18:22	06:01 19:56	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:32	07:27 16:37
30	07:16 17:12	06:35 17:49	05:49 18:23	06:00 19:57	05:30 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:46	06:29 16:59	07:06 16:31	07:28 16:38
31	07:15 17:13	06:33 17:49	05:47 18:24	06:00 19:58	05:29 20:28	05:29 20:39	05:52 20:21	06:24 19:37	06:57 16:57	06:30 16:57	07:07 16:31	07:28 16:39
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 82 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (64)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:15	06:35 17:51	06:43 19:26	05:56 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
5	07:28 16:43	07:09 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:30 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:29
6	07:28 16:44	07:08 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:37 16:50	07:12 16:29
7	07:28 16:45	07:07 17:22	06:27 17:56	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:02 18:33	06:39 16:48	07:13 16:29
8	07:28 16:46	07:06 17:23	06:25 17:58	06:33 19:32	05:49 20:05	05:25 20:33	05:32 20:37	06:00 20:11	06:32 19:23	07:04 18:32	06:40 16:47	07:14 16:29
9	07:28 16:47	07:05 17:24	06:24 17:59	06:31 19:33	05:48 20:06	05:25 20:34	05:33 20:37	06:01 20:10	06:33 19:22	07:05 18:30	06:41 16:46	07:15 16:29
10	07:27 16:48	07:04 17:26	06:22 18:00	06:30 19:35	05:47 20:07	05:25 20:34	05:34 20:37	06:02 20:08	06:34 19:20	07:06 18:28	06:42 16:45	07:16 16:29
11	07:27 16:49	07:02 17:27	06:20 18:01	06:28 19:36	05:45 20:08	05:25 20:35	05:34 20:36	06:03 20:07	06:35 19:18	07:07 18:27	06:44 16:44	07:17 16:29
12	07:27 16:50	07:01 17:28	06:19 18:02	06:26 19:37	05:44 20:09	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
13	07:27 16:51	07:00 17:30	06:17 18:03	06:25 19:38	05:43 20:10	05:25 20:36	05:36 20:35	06:05 20:04	06:37 19:15	07:09 18:23	06:46 16:42	07:18 16:29
14	07:26 16:52	06:59 17:31	06:15 18:05	06:23 19:39	05:42 20:11	05:24 20:36	05:37 20:35	06:06 20:03	06:38 19:13	07:10 18:22	06:47 16:41	07:19 16:30
15	07:26 16:53	06:57 17:32	06:14 18:06	06:22 19:40	05:41 20:12	05:24 20:37	05:37 20:34	06:07 20:02	06:39 19:11	07:11 18:20	06:48 16:40	07:20 16:30
16	07:25 16:54	06:56 17:33	06:12 18:07	06:20 19:41	05:40 20:13	05:24 20:37	05:38 20:34	06:08 20:00	06:40 19:10	07:12 18:19	06:50 16:39	07:21 16:30
17	07:25 16:56	06:54 17:35	06:10 18:08	06:18 19:42	05:39 20:14	05:24 20:37	05:39 20:33	06:09 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:21 16:30
18	07:24 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:15	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:44	05:37 20:16	05:25 20:38	05:41 20:31	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:17	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
21	07:23 17:00	06:49 17:40	06:04 18:12	06:12 19:47	05:35 20:18	05:25 20:38	05:42 20:30	06:13 19:53	06:45 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:47 17:42	06:02 18:15	06:11 19:49	05:35 20:20	05:25 20:39	05:43 20:28	06:14 19:50	06:46 18:57	07:19 18:08	06:57 16:34	07:24 16:33
23	07:21 17:03	06:46 17:43	06:00 18:16	06:09 19:50	05:34 20:21	05:25 20:39	05:44 20:27	06:15 19:48	06:47 18:56	07:21 18:07	06:58 16:34	07:25 16:33
24	07:21 17:04	06:44 17:43	05:58 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:27	06:16 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:33
25	07:20 17:05	06:43 17:44	05:57 18:17	06:06 19:51	05:32 20:22	05:26 20:39	05:46 20:27	06:18 19:47	06:50 18:54	06:23 17:05	07:00 16:33	07:26 16:34
26	07:19 17:07	06:41 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:26 20:39	05:47 20:26	06:19 19:45	06:51 18:52	06:24 17:04	07:02 16:32	07:26 16:35
27	07:18 17:08	06:40 17:47	05:53 18:19	06:03 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:43	06:52 18:50	06:25 17:02	07:03 16:32	07:26 16:35
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:26 17:01	07:04 16:32	07:27 16:36
29	07:16 17:10		06:50 19:21	06:01 19:55	05:30 20:26	05:27 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12		06:48 19:22	05:59 19:56	05:29 20:26	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:58	07:06 16:31	07:27 16:37
31	07:15 17:13		06:46 19:23		05:29 20:27		05:52 20:21	06:24 19:37		06:30 16:57		07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 83 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (65)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:15	06:35 17:51	06:43 19:26	05:56 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
5	07:28 16:43	07:09 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:30 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:29
6	07:28 16:44	07:08 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:37 16:50	07:12 16:29
7	07:28 16:45	07:07 17:22	06:27 17:56	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:02 18:33	06:39 16:48	07:13 16:29
8	07:28 16:46	07:06 17:23	06:25 17:58	06:33 19:32	05:49 20:05	05:25 20:33	05:32 20:37	06:00 20:11	06:32 19:23	07:04 18:32	06:40 16:47	07:14 16:29
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10	07:27 16:48	07:04 17:26	06:22 18:00	06:30 19:35	05:47 20:07	05:25 20:34	05:34 20:37	06:02 20:08	06:34 19:20	07:06 18:28	06:42 16:45	07:16 16:29
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12	07:27 16:50	07:01 17:28	06:19 18:02	06:26 19:37	05:44 20:09	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
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14	07:26 16:52	06:59 17:31	06:15 18:05	06:23 19:39	05:42 20:11	05:24 20:36	05:37 20:35	06:06 20:03	06:38 19:13	07:10 18:22	06:47 16:41	07:19 16:30
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16	07:25 16:54	06:56 17:33	06:12 18:07	06:20 19:41	05:40 20:13	05:24 20:37	05:38 20:34	06:08 20:00	06:40 19:10	07:12 18:19	06:50 16:39	07:21 16:30
17	07:25 16:56	06:55 17:35	06:10 18:08	06:18 19:42	05:39 20:15	05:24 20:37	05:39 20:33	06:09 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:21 16:30
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31	07:15 17:13		06:46 19:24		05:29 20:27		05:52 20:21	06:24 19:37		06:30 16:57		07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 84 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (66)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
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17	07:25 16:56	06:54 17:35	06:10 18:08	06:18 19:42	05:39 20:14	05:25 20:37	05:39 20:33	06:09 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:21 16:30
18	07:24 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:15	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:44	05:37 20:16	05:25 20:38	05:41 20:31	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:17	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
21	07:23 17:00	06:49 17:40	06:04 18:12	06:12 19:47	05:36 20:18	05:25 20:38	05:43 20:30	06:13 19:53	06:45 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:47 17:42	06:02 18:15	06:11 19:49	05:35 20:20	05:25 20:39	05:43 20:28	06:14 19:50	06:46 18:57	07:19 18:08	06:57 16:34	07:24 16:33
23	07:21 17:03	06:46 17:43	06:00 18:16	06:09 19:50	05:34 20:21	05:25 20:39	05:44 20:27	06:15 19:48	06:47 18:56	07:21 18:07	06:58 16:34	07:25 16:33
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31	07:15 17:13		06:46 19:23		05:29 20:27		05:52 20:21	06:24 19:37		06:30 16:57		07:27 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 85 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (67)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
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20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:17	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
21	07:23 17:00	06:49 17:40	06:04 18:12	06:12 19:47	05:36 20:18	05:25 20:38	05:43 20:30	06:13 19:53	06:45 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:47 17:42	06:02 18:15	06:11 19:49	05:35 20:20	05:25 20:39	05:43 20:28	06:14 19:50	06:46 18:57	07:19 18:08	06:57 16:34	07:24 16:33
23	07:21 17:03	06:46 17:43	06:00 18:16	06:09 19:50	05:34 20:21	05:25 20:39	05:44 20:27	06:16 19:48	06:48 18:56	07:21 18:07	06:58 16:34	07:25 16:33
24	07:21 17:04	06:44 17:43	05:58 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:27	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:33
25	07:20 17:05	06:43 17:45	05:57 18:17	06:06 19:51	05:32 20:22	05:26 20:39	05:46 20:27	06:18 19:47	06:50 18:54	06:23 17:05	07:00 16:33	07:26 16:34
26	07:19 17:07	06:41 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:26 20:39	05:47 20:26	06:19 19:45	06:51 18:52	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:08	06:40 17:47	05:53 18:19	06:03 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:43	06:52 18:50	06:25 17:02	07:03 16:32	07:26 16:35
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:26 17:01	07:04 16:32	07:27 16:36
29	07:16 17:10		06:50 19:21	06:01 19:55	05:30 20:26	05:27 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12		06:48 19:22	05:59 19:57	05:29 20:26	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:58	07:06 16:31	07:27 16:37
31	07:15 17:13		06:46 19:24		05:29 20:27		05:52 20:21	06:24 19:37		06:30 16:57		07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 86 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (68)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
5	07:28 16:43	07:09 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:31 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:29
6	07:28 16:44	07:08 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:37 16:50	07:12 16:29
7	07:28 16:45	07:07 17:22	06:27 17:56	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:02 18:33	06:39 16:49	07:13 16:29
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12	07:27 16:50	07:01 17:28	06:19 18:02	06:26 19:37	05:44 20:09	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
13	07:27 16:51	07:00 17:30	06:17 18:03	06:25 19:38	05:43 20:10	05:25 20:36	05:36 20:35	06:05 20:04	06:37 19:15	07:09 18:24	06:46 16:42	07:18 16:29
14	07:26 16:52	06:59 17:31	06:15 18:05	06:23 19:39	05:42 20:11	05:25 20:36	05:37 20:35	06:06 20:03	06:38 19:13	07:10 18:22	06:47 16:41	07:19 16:30
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18	07:24 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:15	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:44	05:37 20:16	05:25 20:38	05:41 20:31	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:17	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
21	07:23 17:00	06:49 17:40	06:04 18:12	06:12 19:47	05:36 20:18	05:25 20:38	05:43 20:30	06:13 19:53	06:45 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:01	06:47 17:41	06:02 18:14	06:11 19:48	05:35 20:19	05:25 20:39	05:43 20:29	06:14 19:51	06:46 18:59	07:19 18:10	06:57 16:35	07:24 16:32
23	07:21 17:02	06:46 17:42	06:00 18:15	06:09 19:49	05:34 20:20	05:25 20:39	05:44 20:28	06:16 19:50	06:48 18:57	07:21 18:08	06:58 16:34	07:25 16:33
24	07:21 17:03	06:44 17:43	05:58 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:27	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:33
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28	07:17 17:07	06:38 17:47	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
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30	07:16 17:09	06:36 17:49	05:50 18:22	06:00 19:56	05:29 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:58	07:06 16:31	07:27 16:37
31	07:15 17:10	06:35 17:50	05:49 18:23	05:59 19:57	05:29 20:28	05:29 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 87 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (69)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
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4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
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16	07:25 16:55	06:56 17:33	06:12 18:07	06:20 19:41	05:40 20:14	05:25 20:37	05:38 20:34	06:08 20:00	06:40 19:10	07:12 18:19	06:50 16:40	07:21 16:30
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19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:44	05:37 20:17	05:25 20:38	05:41 20:32	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:17	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
21	07:23 17:00	06:49 17:40	06:04 18:12	06:12 19:47	05:36 20:18	05:25 20:39	05:43 20:30	06:13 19:53	06:45 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:47 17:42	06:02 18:15	06:11 19:49	05:35 20:20	05:25 20:39	05:43 20:28	06:15 19:50	06:47 18:57	07:19 18:08	06:57 16:34	07:24 16:33
23	07:21 17:03	06:46 17:43	06:00 18:16	06:09 19:50	05:34 20:21	05:25 20:39	05:44 20:27	06:16 19:48	06:48 18:56	07:21 18:07	06:58 16:34	07:25 16:33
24	07:21 17:04	06:44 17:43	05:58 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:27	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:33
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27	07:18 17:08	06:40 17:47	05:53 18:19	06:03 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:43	06:52 18:50	06:25 17:02	07:03 16:32	07:27 16:35
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:10	06:37 17:49	05:51 18:21	06:01 19:55	05:30 20:26	05:27 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 88 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (70)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
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5	07:28 16:43	07:10 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:31 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:08 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:38 16:50	07:12 16:29
7	07:28 16:45	07:07 17:22	06:27 17:57	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:03 18:33	06:39 16:49	07:13 16:29
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 89 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
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Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 90 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
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27	07:18 17:08	06:40 17:47	05:53 18:19	06:03 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:43	06:52 18:51	06:25 17:02	07:03 16:32	07:27 16:35
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:10	06:37 17:48	05:51 18:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12	06:36 17:49	05:50 18:22	06:00 19:56	05:29 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:58	07:06 16:31	07:27 16:37
31	07:15 17:13	06:35 17:50	05:49 18:23	05:59 19:57	05:29 20:28	05:28 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 91 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (73)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:31 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:08 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:38 16:50	07:12 16:29
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 92 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (74)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 93 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (75)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
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11	07:27 16:49	07:02 17:27	06:21 18:01	06:28 19:36	05:45 20:08	05:25 20:35	05:34 20:36	06:03 20:07	06:35 19:18	07:07 18:27	06:44 16:44	07:17 16:29
12	07:27 16:50	07:01 17:28	06:19 18:02	06:26 19:37	05:44 20:09	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
13	07:27 16:51	07:00 17:30	06:17 18:03	06:25 19:38	05:43 20:10	05:25 20:36	05:36 20:35	06:05 20:04	06:37 19:15	07:09 18:24	06:46 16:42	07:18 16:29
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 94 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (76)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:31 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:29
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22	07:22 17:01	06:47 17:41	06:02 18:14	06:11 19:48	05:35 20:19	05:25 20:39	05:43 20:29	06:14 19:51	06:46 18:59	07:19 18:10	06:57 16:35	07:24 16:32
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31	07:15 17:10	06:35 17:50	05:49 18:23	05:59 19:57	05:28 20:28	05:28 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 95 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (77)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 96 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (78)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:56 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:30 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:29
6	07:28 16:44	07:08 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:37 16:50	07:12 16:29
7	07:28 16:45	07:07 17:22	06:27 17:56	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:02 18:33	06:39 16:48	07:13 16:29
8	07:28 16:46	07:06 17:23	06:25 17:58	06:33 19:32	05:49 20:05	05:25 20:33	05:32 20:38	06:00 20:11	06:32 19:23	07:04 18:32	06:40 16:47	07:14 16:29
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12	07:27 16:50	07:01 17:28	06:19 18:02	06:26 19:37	05:44 20:09	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
13	07:27 16:51	07:00 17:30	06:17 18:03	06:25 19:38	05:43 20:10	05:25 20:36	05:36 20:35	06:05 20:04	06:37 19:15	07:09 18:24	06:46 16:42	07:18 16:29
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Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 97 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (79)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
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22	07:22 17:02	06:47 17:42	06:02 18:15	06:11 19:49	05:35 20:20	05:25 20:39	05:43 20:28	06:14 19:50	06:46 18:57	07:19 18:08	06:57 16:34	07:24 16:33
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31	07:15 17:13	06:35 17:50	05:49 18:23	05:59 19:57	05:28 20:28	05:28 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 98 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (80)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
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17	07:25 16:56	06:55 17:35	06:10 18:08	06:18 19:42	05:39 20:15	05:25 20:37	05:39 20:33	06:09 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:21 16:30
18	07:24 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:16	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:44	05:37 20:17	05:25 20:38	05:41 20:32	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:18	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
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22	07:22 17:02	06:47 17:42	06:02 18:15	06:11 19:49	05:35 20:20	05:25 20:39	05:43 20:28	06:14 19:50	06:46 18:57	07:19 18:08	06:57 16:34	07:24 16:33
23	07:21 17:03	06:46 17:43	06:00 18:16	06:09 19:50	05:34 20:21	05:25 20:39	05:44 20:27	06:16 19:48	06:48 18:56	07:21 18:07	06:58 16:34	07:25 16:33
24	07:21 17:04	06:44 17:43	05:58 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:27	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:33
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28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
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Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 99 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (81)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:31 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:29
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7	07:28 16:45	07:07 17:22	06:27 17:57	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:02 18:33	06:39 16:49	07:13 16:29
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12	07:27 16:50	07:01 17:28	06:19 18:02	06:26 19:37	05:44 20:09	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
13	07:27 16:51	07:00 17:30	06:17 18:03	06:25 19:38	05:43 20:11	05:25 20:36	05:36 20:35	06:05 20:05	06:37 19:15	07:09 18:24	06:46 16:42	07:19 16:29
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18	07:24 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:16	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
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20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:18	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
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31	07:15 17:13	06:35 17:51	05:49 18:23	05:59 19:57	05:28 20:28	05:28 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 100 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (82)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
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19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:45	05:37 20:17	05:25 20:38	05:41 20:32	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
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21	07:23 17:00	06:49 17:40	06:04 18:12	06:12 19:47	05:36 20:18	05:25 20:39	05:43 20:30	06:13 19:53	06:45 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:01	06:47 17:41	06:02 18:14	06:11 19:48	05:35 20:19	05:25 20:39	05:43 20:29	06:15 19:51	06:47 18:59	07:19 18:10	06:57 16:35	07:24 16:32
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Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 101 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (83)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
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4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
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Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 102 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (84)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
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Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 103 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (85)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
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22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:25 20:39	05:44 20:29	06:15 19:51	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:32
23	07:21 17:03	06:46 17:42	06:00 18:15	06:09 19:49	05:34 20:20	05:25 20:39	05:44 20:28	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:34	07:25 16:33
24	07:21 17:04	06:45 17:43	05:59 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:33
25	07:20 17:05	06:43 17:45	05:57 18:17	06:06 19:51	05:32 20:22	05:26 20:39	05:46 20:27	06:18 19:47	06:50 18:54	06:23 17:05	07:01 16:33	07:26 16:34
26	07:19 17:07	06:42 17:46	05:55 18:18	06:05 19:52	05:32 20:23	05:26 20:39	05:47 20:26	06:19 19:45	06:51 18:52	06:24 17:04	07:02 16:33	07:26 16:35
27	07:18 17:08	06:40 17:47	05:53 18:19	06:03 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:44	06:52 18:51	06:25 17:02	07:03 16:32	07:27 16:35
28	07:18 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:51 18:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12	06:36 17:50	05:50 18:22	06:00 19:56	05:29 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:58	07:06 16:31	07:27 16:38
31	07:15 17:13	06:35 17:51	05:49 18:23	06:00 19:57	05:29 20:28	05:28 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	451	455	462	429	375	344	296	285
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: 104 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (86)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
5	07:28 16:43	07:10 17:20	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:31 20:39	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:30
6	07:28 16:44	07:09 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:38 16:50	07:12 16:29
7	07:28 16:45	07:07 17:22	06:27 17:57	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:13	06:31 19:25	07:03 18:34	06:39 16:49	07:13 16:29
8	07:28 16:46	07:06 17:23	06:26 17:58	06:33 19:32	05:49 20:05	05:26 20:33	05:32 20:38	06:00 20:11	06:32 19:24	07:04 18:32	06:40 16:47	07:14 16:29
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12	07:27 16:50	07:01 17:28	06:19 18:02	06:27 19:37	05:44 20:10	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
13	07:27 16:51	07:00 17:30	06:17 18:04	06:25 19:38	05:43 20:11	05:25 20:36	05:36 20:35	06:05 20:05	06:37 19:15	07:09 18:24	06:46 16:42	07:19 16:30
14	07:26 16:52	06:59 17:31	06:16 18:05	06:23 19:39	05:42 20:12	05:25 20:36	05:37 20:35	06:06 20:03	06:38 19:13	07:10 18:22	06:47 16:41	07:19 16:30
15	07:26 16:53	06:57 17:32	06:14 18:06	06:22 19:40	05:41 20:13	05:25 20:37	05:38 20:34	06:07 20:02	06:39 19:11	07:11 18:20	06:49 16:40	07:20 16:30
16	07:26 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:40 20:14	05:25 20:37	05:38 20:34	06:08 20:00	06:40 19:10	07:13 18:19	06:50 16:40	07:21 16:30
17	07:25 16:56	06:55 17:35	06:11 18:08	06:19 19:42	05:39 20:15	05:25 20:37	05:39 20:33	06:09 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:22 16:30
18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:16	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:45	05:37 20:17	05:25 20:38	05:41 20:32	06:11 19:56	06:43 19:05	07:16 18:14	06:54 16:37	07:23 16:31
20	07:23 16:59	06:50 17:39	06:05 18:11	06:14 19:46	05:36 20:18	05:25 20:38	05:42 20:31	06:13 19:54	06:45 19:03	07:17 18:13	06:55 16:36	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:12 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:48 17:41	06:02 18:14	06:11 19:48	05:35 20:20	05:25 20:39	05:44 20:29	06:15 19:51	06:47 18:59	07:20 18:10	06:57 16:35	07:25 16:32
23	07:21 17:03	06:46 17:42	06:00 18:15	06:09 19:49	05:34 20:20	05:26 20:39	05:44 20:28	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:34	07:25 16:33
24	07:21 17:04	06:45 17:43	05:59 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:28	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:34
25	07:20 17:05	06:43 17:45	05:57 18:17	06:06 19:51	05:32 20:22	05:26 20:39	05:46 20:27	06:18 19:47	06:50 18:54	06:23 17:05	07:01 16:33	07:26 16:34
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27	07:18 17:08	06:40 17:47	05:53 18:19	06:03 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:44	06:52 18:51	06:25 17:03	07:03 16:32	07:27 16:35
28	07:18 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:51 18:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12	06:36 17:50	05:50 18:22	06:00 19:56	05:29 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:58	07:06 16:31	07:27 16:38
31	07:15 17:13	06:35 17:51	05:49 18:23	05:59 19:57	05:29 20:28	05:29 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 105 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (87)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:30	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:39	06:35 16:52	07:10 16:30
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16	07:25 16:55	06:56 17:34	06:12 18:07	06:20 19:41	05:40 20:14	05:25 20:37	05:38 20:34	06:08 20:00	06:40 19:10	07:13 18:19	06:50 16:40	07:21 16:30
17	07:25 16:56	06:55 17:35	06:10 18:08	06:19 19:42	05:39 20:15	05:25 20:37	05:39 20:33	06:09 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:22 16:30
18	07:25 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:16	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:45	05:37 20:17	05:25 20:38	05:41 20:32	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:18	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:32
21	07:23 17:01	06:49 17:40	06:04 18:13	06:12 19:47	05:36 20:19	05:25 20:39	05:43 20:30	06:14 19:53	06:46 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:47 17:41	06:02 18:14	06:11 19:48	05:35 20:19	05:25 20:39	05:44 20:29	06:15 19:51	06:47 18:59	07:19 18:10	06:57 16:35	07:24 16:32
23	07:21 17:03	06:46 17:42	06:00 18:15	06:09 19:49	05:34 20:20	05:25 20:39	05:44 20:28	06:16 19:50	06:48 18:58	07:21 18:08	06:58 16:34	07:25 16:33
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27	07:18 17:08	06:40 17:47	05:53 18:19	06:03 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:44	06:52 18:51	06:25 17:02	07:03 16:32	07:27 16:35
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 106 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (88)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
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Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 107 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (89)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:57 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:55	07:08 16:30
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Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 108 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (90)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:20	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:31
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27	07:18 17:08	06:40 17:47	05:53 18:19	06:04 19:53	05:31 20:24	05:27 20:39	05:48 20:25	06:20 19:44	06:52 18:51	06:25 17:03	07:03 16:32	07:27 16:35
28	07:17 17:09	06:38 17:48	05:52 18:20	06:02 19:54	05:30 20:25	05:27 20:39	05:49 20:24	06:21 19:42	06:53 18:49	06:27 17:01	07:04 16:32	07:27 16:36
29	07:17 17:11	06:37 17:49	05:51 18:21	06:01 19:55	05:30 20:26	05:28 20:39	05:50 20:23	06:22 19:40	06:54 18:47	06:28 17:00	07:05 16:31	07:27 16:37
30	07:16 17:12	06:36 17:50	05:50 18:22	06:00 19:56	05:29 20:27	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	06:29 16:58	07:06 16:31	07:27 16:38
31	07:15 17:13	06:35 17:51	05:49 18:23	05:59 19:57	05:29 20:28	05:29 20:39	05:52 20:21	06:24 19:37	06:56 16:57	06:30 16:57	07:07 16:31	07:28 16:38
Potential sun hours	295	296	369	400	450	455	461	429	375	344	296	285
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: 109 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (91)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28	07:14	06:37	06:45	05:58	05:28	05:29	05:53	06:25	06:56	06:32	07:07
	16:39	17:14	17:50	19:25	19:58	20:28	20:39	20:20	19:35	18:44	16:56	16:31
2	07:28	07:13	06:35	06:43	05:57	05:28	05:29	05:54	06:26	06:57	06:33	07:08
	16:40	17:16	17:51	19:26	19:59	20:29	20:39	20:18	19:34	18:42	16:55	16:30
3	07:28	07:12	06:34	06:42	05:55	05:27	05:30	05:55	06:27	06:58	06:34	07:09
	16:41	17:17	17:52	19:27	20:00	20:30	20:39	20:17	19:32	18:40	16:53	16:30
4	07:28	07:11	06:32	06:40	05:54	05:27	05:30	05:56	06:28	06:59	06:35	07:10
	16:42	17:18	17:53	19:28	20:01	20:30	20:39	20:16	19:30	18:39	16:52	16:30
5	07:28	07:10	06:31	06:38	05:53	05:27	05:31	05:57	06:29	07:00	06:36	07:11
	16:43	17:20	17:54	19:29	20:02	20:31	20:39	20:15	19:29	18:37	16:51	16:30
6	07:28	07:09	06:29	06:36	05:52	05:26	05:31	05:58	06:30	07:02	06:38	07:12
	16:44	17:21	17:55	19:30	20:03	20:32	20:38	20:14	19:27	18:35	16:50	16:30
7	07:28	07:07	06:27	06:35	05:50	05:26	05:32	05:59	06:31	07:03	06:39	07:13
	16:45	17:22	17:57	19:31	20:04	20:32	20:38	20:13	19:25	18:34	16:49	16:29
8	07:28	07:06	06:26	06:33	05:49	05:26	05:33	06:00	06:32	07:04	06:40	07:14
	16:46	17:23	17:58	19:33	20:05	20:33	20:38	20:11	19:24	18:32	16:48	16:29
9	07:28	07:05	06:24	06:32	05:48	05:25	05:33	06:01	06:33	07:05	06:41	07:15
	16:47	17:25	17:59	19:34	20:06	20:34	20:37	20:10	19:22	18:30	16:46	16:29
10	07:28	07:04	06:22	06:30	05:47	05:25	05:34	06:02	06:34	07:06	06:43	07:16
	16:48	17:26	18:00	19:35	20:07	20:34	20:37	20:09	19:20	18:29	16:45	16:29
11	07:27	07:03	06:21	06:28	05:46	05:25	05:35	06:03	06:35	07:07	06:44	07:17
	16:49	17:27	18:01	19:36	20:09	20:35	20:36	20:07	19:18	18:27	16:44	16:29
12	07:27	07:01	06:19	06:27	05:44	05:25	05:35	06:04	06:36	07:08	06:45	07:18
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	16:52	17:31	18:05	19:39	20:12	20:36	20:35	20:03	19:13	18:22	16:41	16:30
15	07:26	06:57	06:14	06:22	05:41	05:25	05:38	06:07	06:39	07:11	06:49	07:20
	16:54	17:32	18:06	19:40	20:13	20:37	20:34	20:02	19:12	18:20	16:41	16:30
16	07:26	06:56	06:12	06:20	05:40	05:25	05:38	06:08	06:40	07:13	06:50	07:21
	16:55	17:34	18:07	19:41	20:14	20:37	20:34	20:00	19:10	18:19	16:40	16:30
17	07:25	06:55	06:11	06:19	05:39	05:25	05:39	06:09	06:41	07:14	06:51	07:22
	16:56	17:35	18:08	19:42	20:15	20:37	20:33	19:59	19:08	18:17	16:39	16:31
18	07:25	06:53	06:09	06:17	05:38	05:25	05:40	06:11	06:42	07:15	06:52	07:22
	16:57	17:36	18:09	19:44	20:16	20:38	20:32	19:57	19:06	18:16	16:38	16:31
19	07:24	06:52	06:07	06:15	05:37	05:25	05:41	06:12	06:44	07:16	06:54	07:23
	16:58	17:37	18:10	19:45	20:17	20:38	20:32	19:56	19:05	18:14	16:37	16:31
20	07:23	06:50	06:05	06:14	05:37	05:25	05:42	06:13	06:45	07:17	06:55	07:23
	16:59	17:39	18:11	19:46	20:18	20:38	20:31	19:54	19:03	18:13	16:36	16:32
21	07:23	06:49	06:04	06:12	05:36	05:25	05:43	06:14	06:46	07:18	06:56	07:24
	17:01	17:40	18:13	19:47	20:19	20:39	20:30	19:53	19:01	18:11	16:36	16:32
22	07:22	06:48	06:02	06:11	05:35	05:25	05:44	06:15	06:47	07:20	06:57	07:25
	17:02	17:41	18:14	19:48	20:20	20:39	20:29	19:51	18:59	18:10	16:35	16:33
23	07:21	06:46	06:00	06:09	05:34	05:26	05:45	06:16	06:48	07:21	06:58	07:25
	17:03	17:42	18:15	19:49	20:20	20:39	20:28	19:50	18:58	18:08	16:34	16:33
24	07:21	06:45	05:59	06:08	05:33	05:26	05:45	06:17	06:49	07:22	06:59	07:25
	17:04	17:43	18:16	19:50	20:21	20:39	20:28	19:48	18:56	18:07	16:34	16:34
25	07:20	06:43	05:57	06:06	05:33	05:26	05:46	06:18	06:50	06:23	07:01	07:26
	17:06	17:45	18:17	19:51	20:22	20:39	20:27	19:47	18:54	17:05	16:33	16:34
26	07:19	06:42	05:55	06:05	05:32	05:26	05:47	06:19	06:51	06:24	07:02	07:26
	17:07	17:46	18:18	19:52	20:23	20:39	20:26	19:45	18:52	17:04	16:33	16:35
27	07:18	06:40	05:53	06:04	05:31	05:27	05:48	06:20	06:52	06:25	07:03	07:27
	17:08	17:47	18:19	19:53	20:24	20:39	20:25	19:44	18:51	17:03	16:32	16:35
28	07:18	06:38	05:52	06:02	05:31	05:27	05:49	06:21	06:53	06:27	07:04	07:27
	17:09	17:48	18:20	19:54	20:25	20:39	20:24	19:42	18:49	17:01	16:32	16:36
29	07:17		06:50	06:01	05:30	05:28	05:50	06:22	06:54	06:28	07:05	07:27
	17:11		19:21	19:56	20:26	20:39	20:23	19:40	18:47	17:00	16:31	16:37
30	07:16		06:48	05:59	05:29	05:28	05:51	06:23	06:55	06:29	07:06	07:27
	17:12		19:23	19:57	20:27	20:39	20:22	19:39	18:45	16:59	16:31	16:38
31	07:15		06:47		05:29		05:52	06:24		06:30		07:28
	17:13		19:24		20:27		20:21	19:37		16:57		16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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

Project:

WF Montorio

Licensed user:

Ge.co.Dor srl

Via P.Amedeo n.32

IT-75021 Colobraro (MT)

Gaetano / info@gecodor.it

Calculated:

15/02/2022 19:06/3.4.424

SHADOW - Calendar per WTG

WTG: 110 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (92)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,21	4,83	5,24	6,37	6,76	8,17	9,01	9,23	7,23	4,84	4,00	3,35

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
981	393	245	98	116	178	202	368	932	441	576	1.600	6.130

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:28 16:39	07:14 17:14	06:37 17:49	06:45 19:25	05:58 19:58	05:28 20:28	05:28 20:39	05:53 20:19	06:25 19:35	06:56 18:44	06:31 16:56	07:07 16:30
2	07:28 16:40	07:13 17:16	06:35 17:51	06:43 19:26	05:56 19:59	05:28 20:29	05:29 20:39	05:54 20:18	06:26 19:34	06:57 18:42	06:33 16:54	07:08 16:30
3	07:28 16:41	07:12 17:17	06:34 17:52	06:41 19:27	05:55 20:00	05:27 20:29	05:29 20:39	05:55 20:17	06:27 19:32	06:58 18:40	06:34 16:53	07:09 16:30
4	07:28 16:42	07:11 17:18	06:32 17:53	06:40 19:28	05:54 20:01	05:27 20:30	05:30 20:39	05:56 20:16	06:28 19:30	06:59 18:38	06:35 16:52	07:10 16:30
5	07:28 16:43	07:09 17:19	06:30 17:54	06:38 19:29	05:53 20:02	05:26 20:31	05:30 20:38	05:57 20:15	06:29 19:29	07:00 18:37	06:36 16:51	07:11 16:29
6	07:28 16:44	07:08 17:21	06:29 17:55	06:36 19:30	05:51 20:03	05:26 20:32	05:31 20:38	05:58 20:14	06:30 19:27	07:01 18:35	06:37 16:50	07:12 16:29
7	07:28 16:45	07:07 17:22	06:27 17:56	06:35 19:31	05:50 20:04	05:26 20:32	05:32 20:38	05:59 20:12	06:31 19:25	07:02 18:33	06:39 16:48	07:13 16:29
8	07:28 16:46	07:06 17:23	06:25 17:58	06:33 19:32	05:49 20:05	05:25 20:33	05:32 20:37	06:00 20:11	06:32 19:23	07:04 18:32	06:40 16:47	07:14 16:29
9	07:28 16:47	07:05 17:24	06:24 17:59	06:31 19:33	05:48 20:06	05:25 20:33	05:33 20:37	06:01 20:10	06:33 19:22	07:05 18:30	06:41 16:46	07:15 16:29
10	07:27 16:48	07:04 17:26	06:22 18:00	06:30 19:35	05:47 20:07	05:25 20:34	05:34 20:37	06:02 20:08	06:34 19:20	07:06 18:28	06:42 16:45	07:16 16:29
11	07:27 16:49	07:02 17:27	06:20 18:01	06:28 19:36	05:45 20:08	05:25 20:35	05:34 20:36	06:03 20:07	06:35 19:18	07:07 18:27	06:44 16:44	07:17 16:29
12	07:27 16:50	07:01 17:28	06:19 18:02	06:26 19:37	05:44 20:09	05:25 20:35	05:35 20:36	06:04 20:06	06:36 19:17	07:08 18:25	06:45 16:43	07:18 16:29
13	07:27 16:51	07:00 17:30	06:17 18:03	06:25 19:38	05:43 20:10	05:25 20:36	05:36 20:35	06:05 20:04	06:37 19:15	07:09 18:23	06:46 16:42	07:18 16:29
14	07:26 16:52	06:59 17:31	06:15 18:05	06:23 19:39	05:42 20:11	05:24 20:36	05:37 20:35	06:06 20:03	06:38 19:13	07:10 18:22	06:47 16:41	07:19 16:30
15	07:26 16:53	06:57 17:32	06:14 18:06	06:22 19:40	05:41 20:12	05:24 20:37	05:37 20:34	06:07 20:02	06:39 19:11	07:11 18:20	06:48 16:40	07:20 16:30
16	07:25 16:54	06:56 17:33	06:12 18:07	06:20 19:41	05:40 20:13	05:24 20:37	05:38 20:33	06:08 20:00	06:40 19:10	07:12 18:19	06:50 16:39	07:21 16:30
17	07:25 16:56	06:54 17:35	06:10 18:08	06:18 19:42	05:39 20:14	05:24 20:37	05:39 20:33	06:09 19:59	06:41 19:08	07:14 18:17	06:51 16:39	07:21 16:30
18	07:24 16:57	06:53 17:36	06:09 18:09	06:17 19:43	05:38 20:15	05:25 20:38	05:40 20:32	06:10 19:57	06:42 19:06	07:15 18:16	06:52 16:38	07:22 16:31
19	07:24 16:58	06:52 17:37	06:07 18:10	06:15 19:44	05:37 20:16	05:25 20:38	05:41 20:31	06:11 19:56	06:43 19:04	07:16 18:14	06:53 16:37	07:23 16:31
20	07:23 16:59	06:50 17:38	06:05 18:11	06:14 19:46	05:36 20:17	05:25 20:38	05:42 20:31	06:12 19:54	06:44 19:03	07:17 18:13	06:55 16:36	07:23 16:31
21	07:23 17:00	06:49 17:40	06:04 18:12	06:12 19:47	05:35 20:18	05:25 20:38	05:43 20:30	06:13 19:53	06:45 19:01	07:18 18:11	06:56 16:36	07:24 16:32
22	07:22 17:02	06:47 17:42	06:02 18:15	06:11 19:49	05:35 20:20	05:25 20:39	05:43 20:28	06:14 19:50	06:46 18:57	07:19 18:08	06:57 16:34	07:24 16:33
23	07:21 17:03	06:46 17:43	06:00 18:16	06:09 19:50	05:34 20:21	05:25 20:39	05:44 20:27	06:15 19:48	06:47 18:56	07:21 18:07	06:58 16:34	07:25 16:33
24	07:21 17:04	06:44 17:43	05:58 18:16	06:08 19:50	05:33 20:21	05:26 20:39	05:45 20:27	06:17 19:48	06:49 18:56	07:22 18:07	06:59 16:34	07:25 16:33
25	07:20 17:05	06:43 17:45	05:57 18:17	06:06 19:51	05:32 20:22	05:26 20:39	05:46 20:27	06:18 19:47	06:50 18:54	07:23 17:05	07:00 16:33	07:26 16:34
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30	07:16 17:12		06:48 19:22	05:59 19:56	05:29 20:26	05:28 20:39	05:51 20:22	06:23 19:39	06:55 18:45	07:28 16:58	07:06 16:31	07:27 16:37
31	07:15 17:13		06:46 19:23		05:29 20:27		05:52 20:21	06:24 19:37		06:30 16:57		07:28 16:38
Potential sun hours	295	296	369	400	450	455	462	429	375	344	296	285
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: 111 - VESTAS V90-2.0 GridStreamer 2000 90.0 !O! hub: 80,0 m (TOT: 125,0 m) (93)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Table with 12 columns (Jan-Dec) and 1 row of values: 4,21 4,83 5,24 6,37 6,76 8,17 9,01 9,23 7,23 4,84 4,00 3,35

Operational time

Table with 13 columns (N to Sum) and 1 row of values: 981 393 245 98 116 178 202 368 932 441 576 1.600 6.130

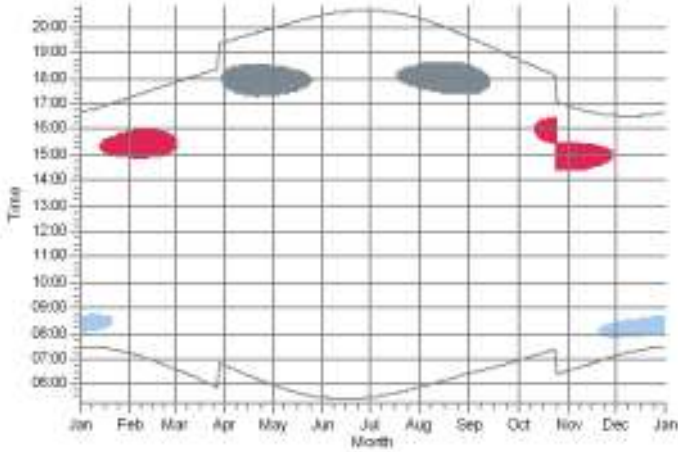
Main shadow calculation table with columns for months (January-December) and rows for days (1-31). Includes 'Potential sun hours' and 'Sum of minutes with flicker' at the bottom.

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

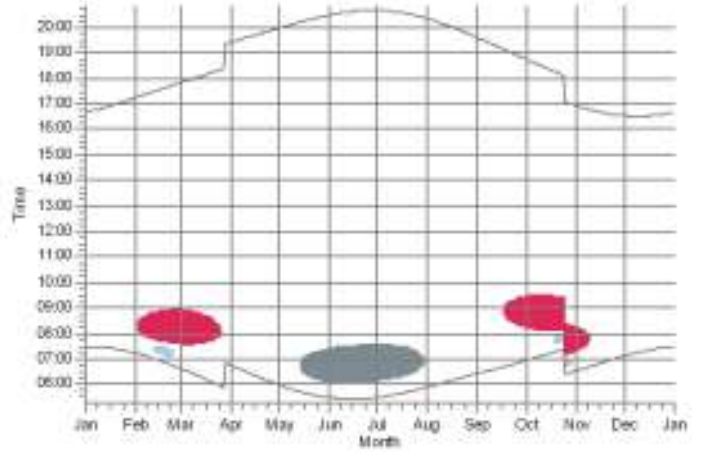
Matrix defining columns: Day in month, Sun rise (hh:mm), Sun set (hh:mm), First time (hh:mm) with flicker, Last time (hh:mm) with flicker, Minutes with flicker.

SHADOW - Calendar per WTG, graphical

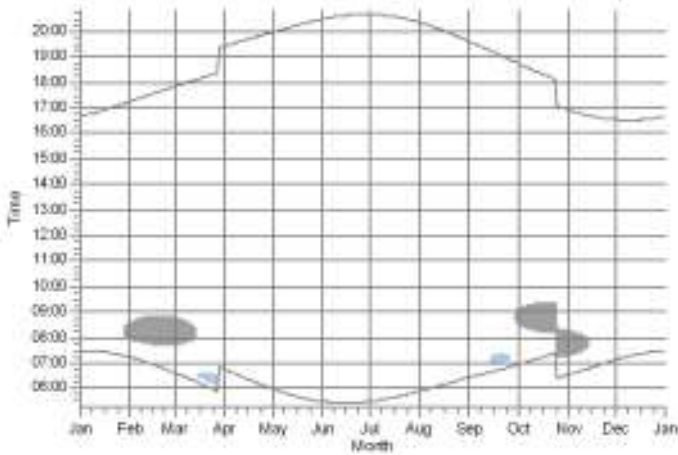
MT 01: Siemens Gamesa SG 6.0-170 6200 170.0 YOI/hub: 185.0 m (TOT: 2



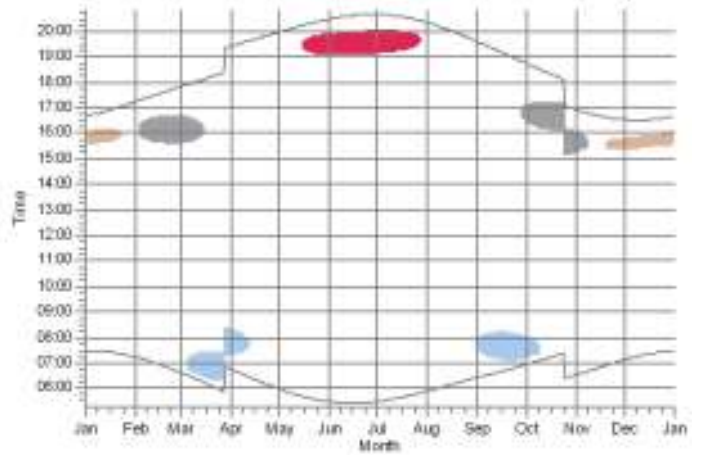
MT 02: Siemens Gamesa SG 6.0-170 6200 170.0 YOI/hub: 165.0 m (TOT: 2



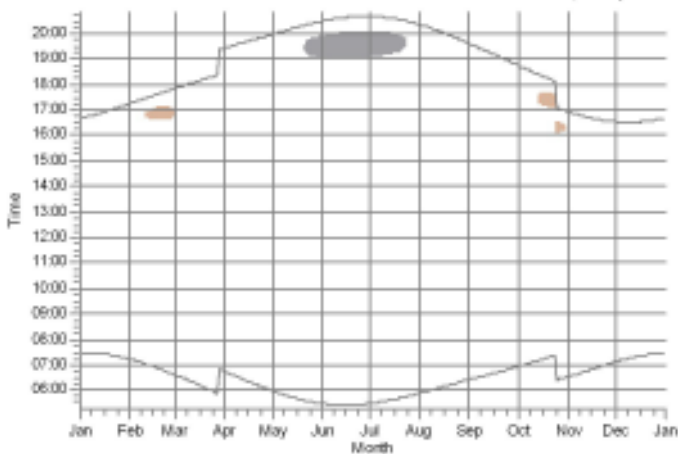
MT 03: Siemens Gamesa SG 6.0-170 6200 170.0 YOI/hub: 185.0 m (TOT: 2



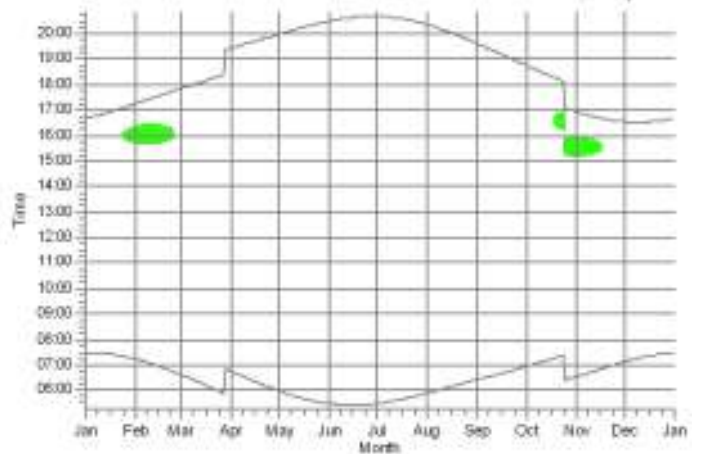
MT 04: Siemens Gamesa SG 6.0-170 6200 170.0 YOI/hub: 165.0 m (TOT: 2



MT 05: Siemens Gamesa SG 6.0-170 6200 170.0 YOI/hub: 185.0 m (TOT: 2



MT 06: Siemens Gamesa SG 6.0-170 6200 170.0 YOI/hub: 165.0 m (TOT: 2

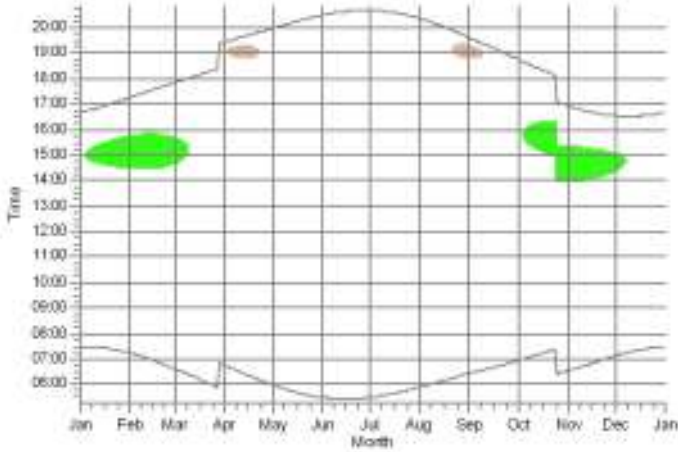


Shadow receptors

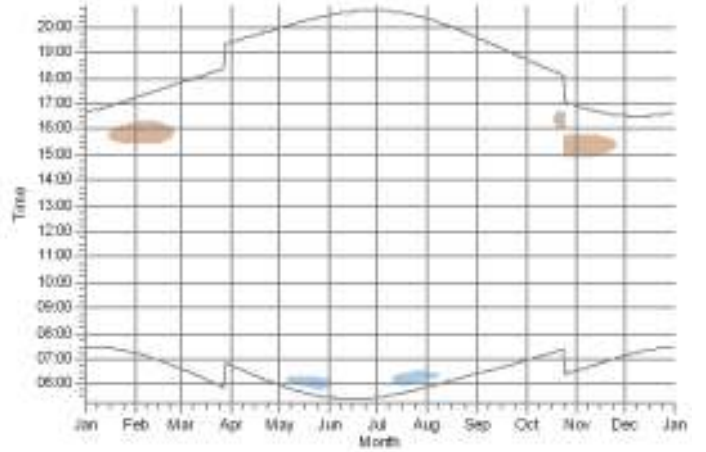
- R12: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (6)
- R13: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (5)
- R17: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (6)
- R19: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (7)
- R5: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (2)
- R7: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (3)

SHADOW - Calendar per WTG, graphical

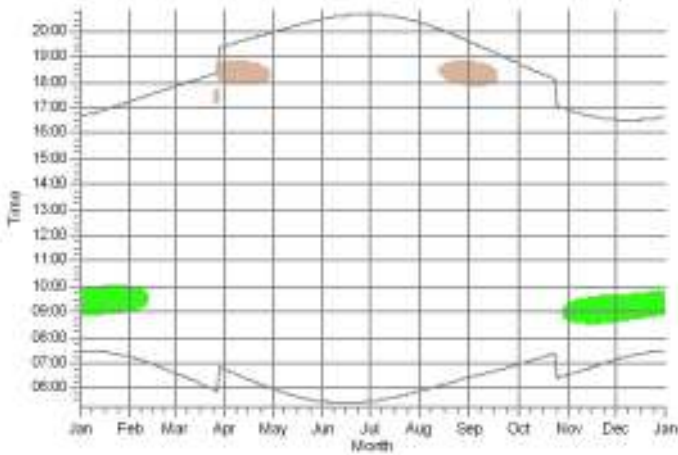
MT 07: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



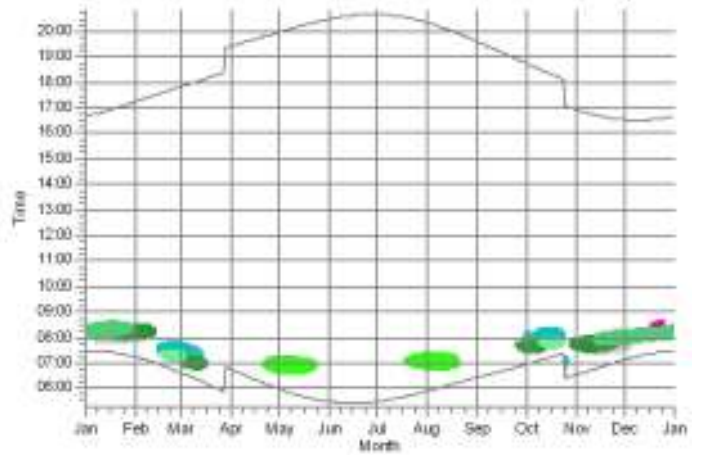
MT 08: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



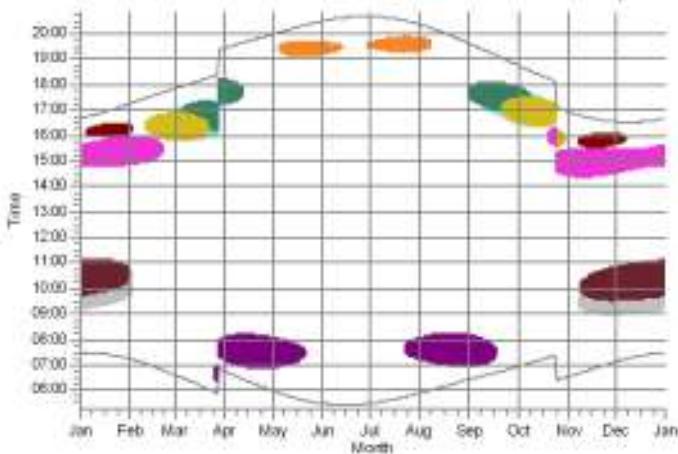
MT 09: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



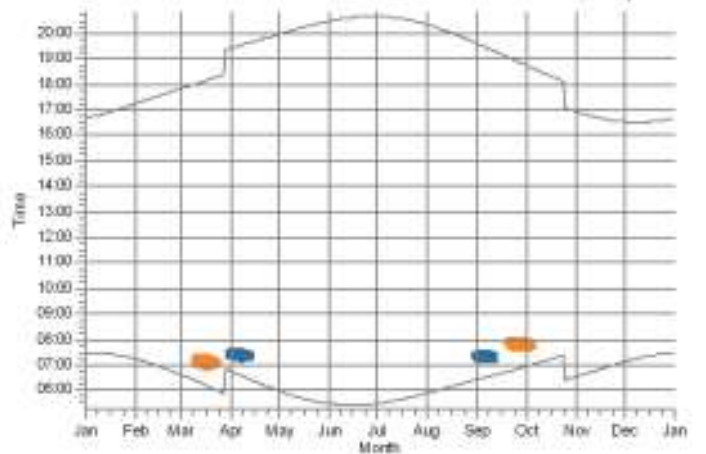
MT 10: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



MT 11: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



MT 12: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2

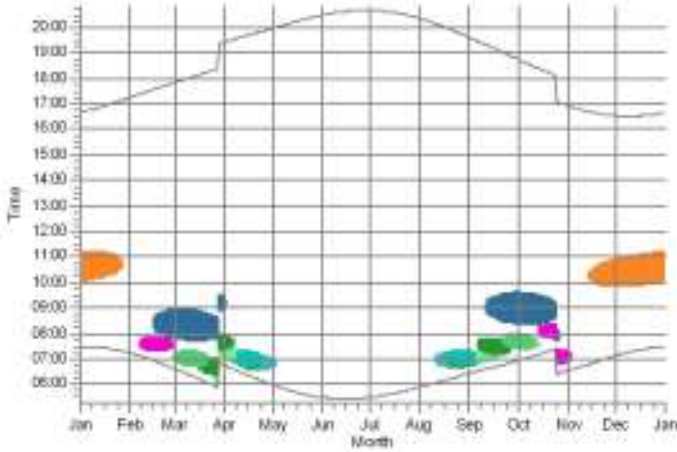


Shadow receptors

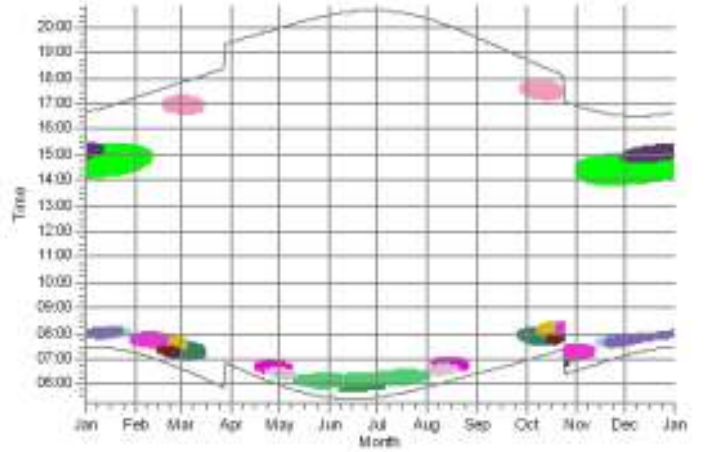
- | | | | |
|---|---|---|---|
| R13: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (64) | R17: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (6) | R25: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (12) | R31: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (18) |
| R16: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (67) | R19: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (7) | R26: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (13) | R32: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (19) |
| R17: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (68) | R20: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (8) | R27: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (14) | R35: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (20) |
| R18: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (69) | R21: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (9) | R28: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (15) | R39: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (21) |
| R19: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (70) | R22: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (10) | R29: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (16) | |
| R12: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (4) | R24: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (11) | R30: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (17) | |

SHADOW - Calendar per WTG, graphical

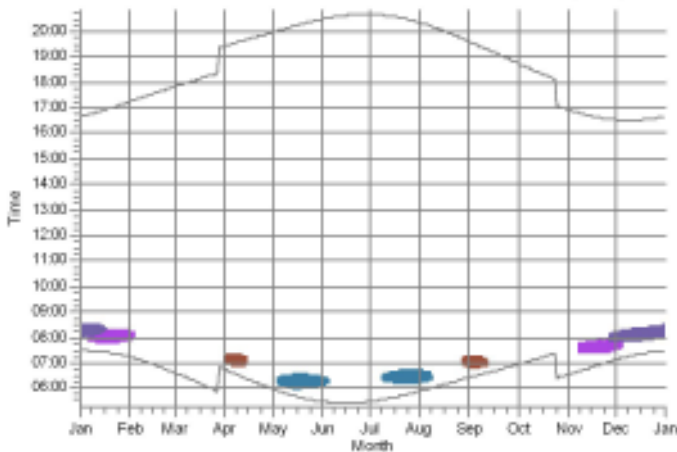
MT 13: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



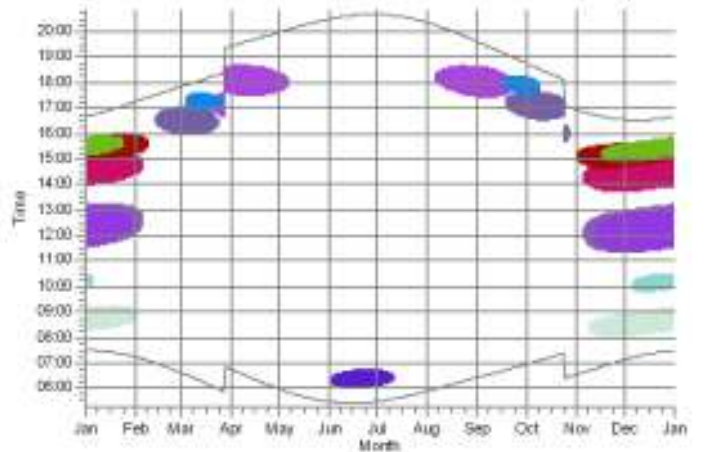
MT 14: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



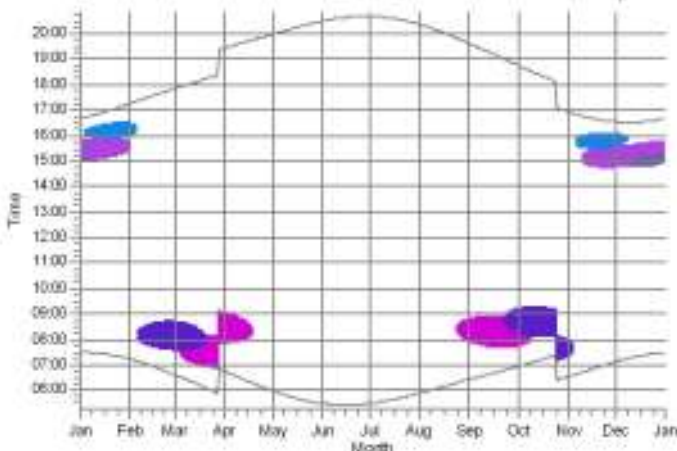
MT 15: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



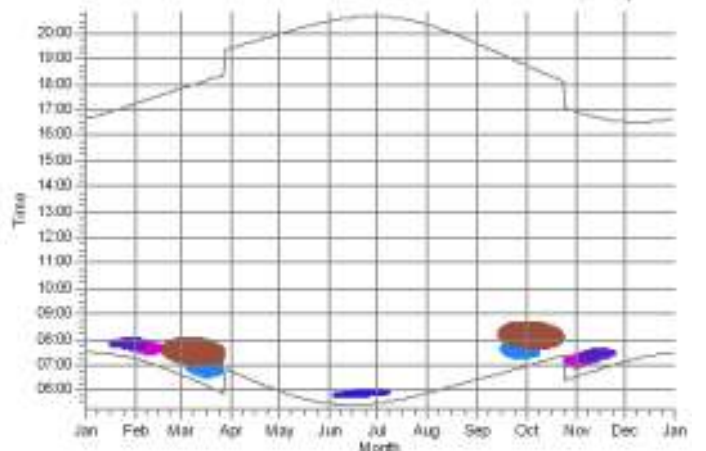
MT 16: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



MT 17: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2



MT 18: Siemens Gamesa SG 6.0-170 6200 170.0 Yof hub: 165.0 m (TOT: 2

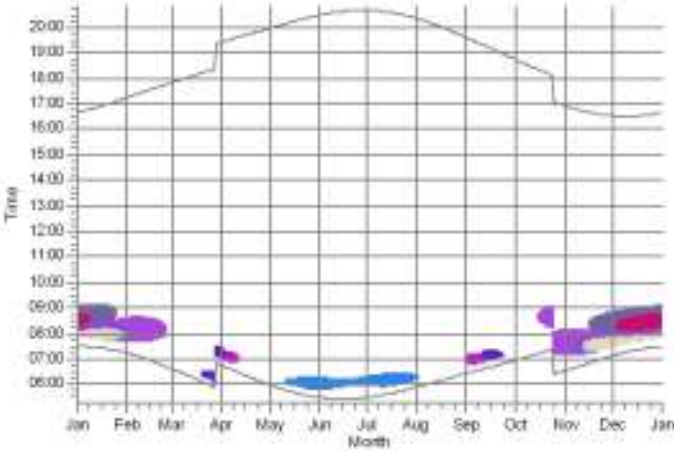


Shadow receptors

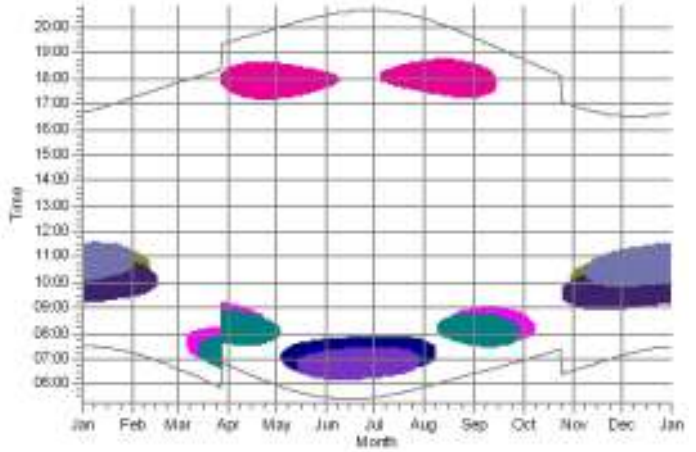
- | | | | |
|--|---|--|---|
| R114: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (65) | R27: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (14) | R43: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (25) | R63: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (36) |
| R117: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (68) | R28: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (15) | R45: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (26) | R65: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (38) |
| R116: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (69) | R29: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (16) | R52: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (27) | R66: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (39) |
| R119: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (70) | R30: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (17) | R53: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (28) | R67: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (40) |
| R20: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (8) | R31: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (18) | R56: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (29) | R76: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (46) |
| R21: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (9) | R32: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (19) | R57: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (30) | R79: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (48) |
| R22: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (10) | R35: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (20) | R59: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (31) | R82: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (49) |
| R24: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (11) | R39: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (21) | R60: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (32) | R85: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (50) |
| R25: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (12) | R40: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (22) | R81: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (33) | |
| R26: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (13) | R41: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (23) | R81bis: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (34) | |

SHADOW - Calendar per WTG, graphical

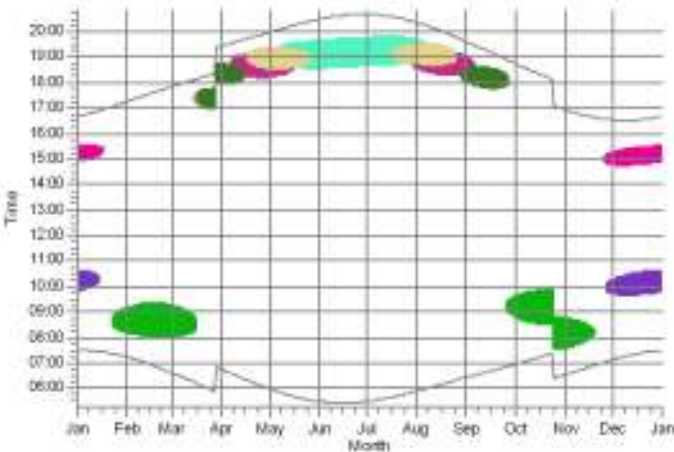
MT 19: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 185.0 m (TOT: 2



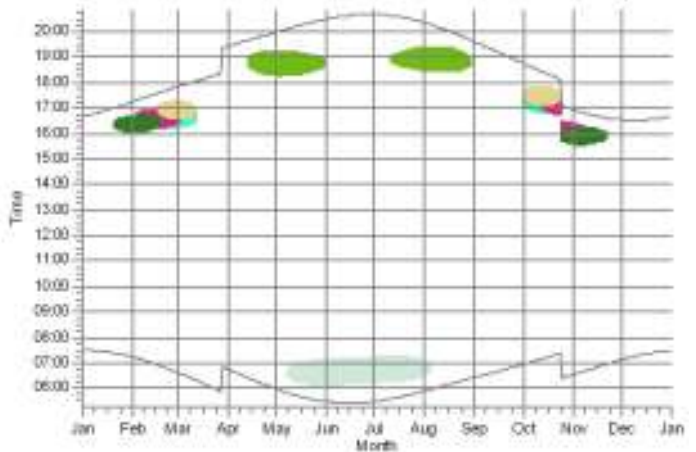
MT 20: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165.0 m (TOT: 2



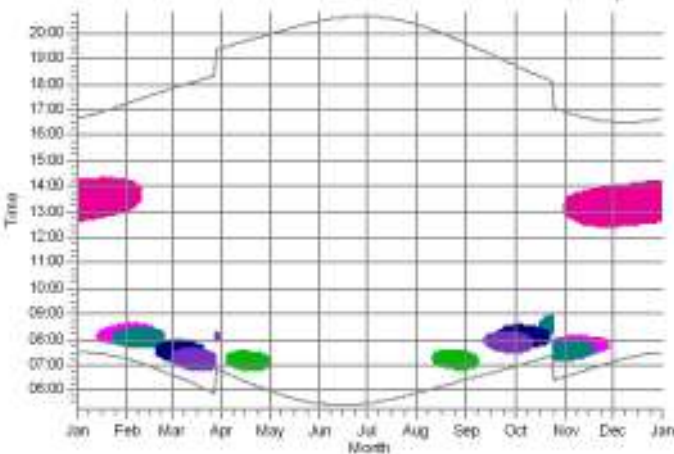
MT 21: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 185.0 m (TOT: 2



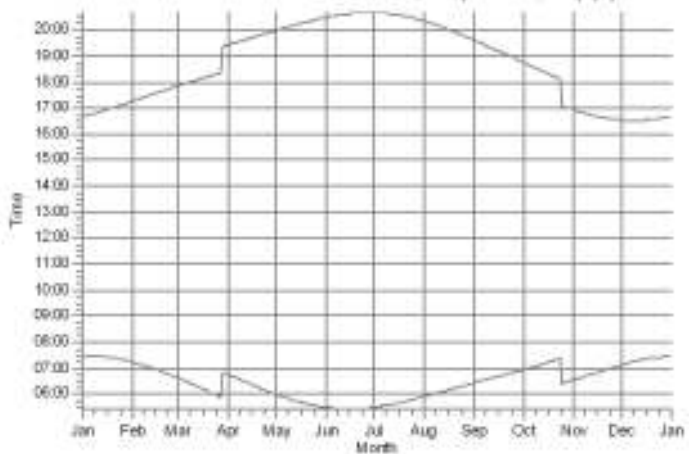
MT 22: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165.0 m (TOT: 2



MT 23: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 185.0 m (TOT: 2



24: VESTAS V47 660 47.0 IO! hub: 50.0 m (TOT: 73.5 m) (1)

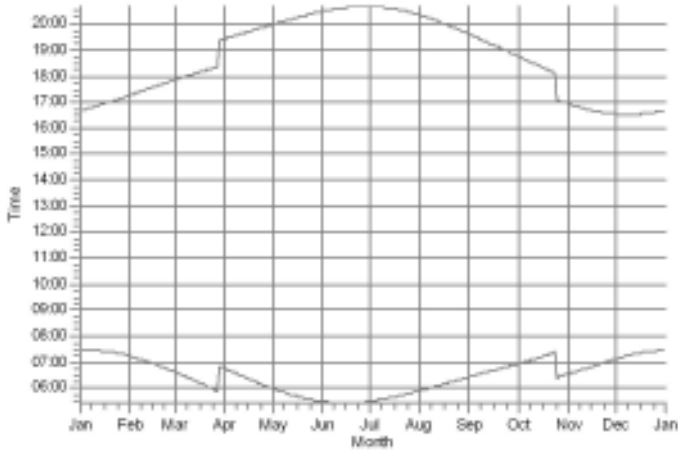


Shadow receptors

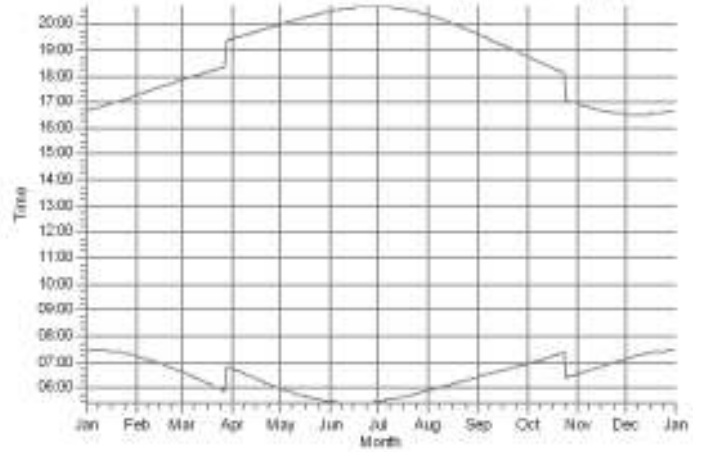
- | | | | |
|--|---|---|---|
| R100: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (57) | R56: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (29) | R64: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (37) | R79: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (48) |
| R101: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (58) | R57: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (30) | R65: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (38) | R91: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (51) |
| R102: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (59) | R58: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (31) | R67: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (40) | R93: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (52) |
| R103: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (60) | R59: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (32) | R71: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (41) | R94: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (53) |
| R106: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (61) | R60: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (33) | R72: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (42) | R95: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (54) |
| R107: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (62) | R61: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (34) | R73: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (43) | R96: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (55) |
| R109: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (63) | R62: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (35) | R74: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (44) | R99: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (56) |
| R82: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (27) | R63: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (36) | R75: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (45) | |

SHADOW - Calendar per WTG, graphical

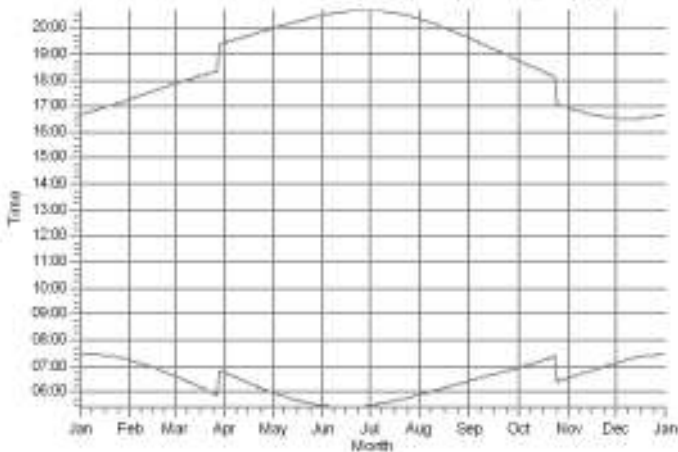
25: VESTAS V47 660 47.0 IO! hub: 50,0 m (TOT: 73,5 m) (2)



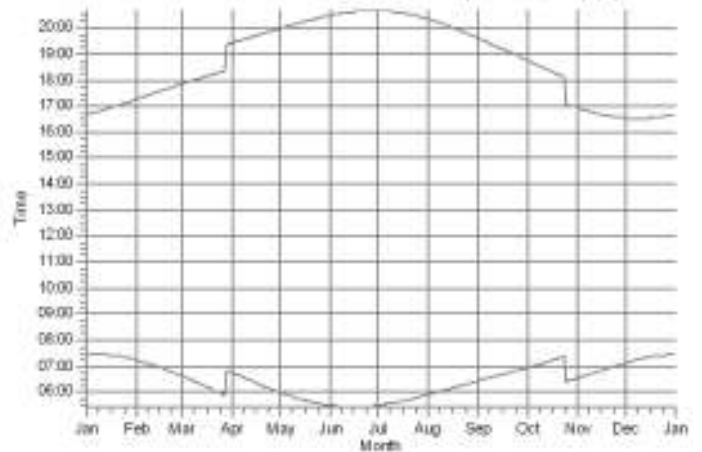
26: VESTAS V47 660 47.0 IO! hub: 50,0 m (TOT: 73,5 m) (3)



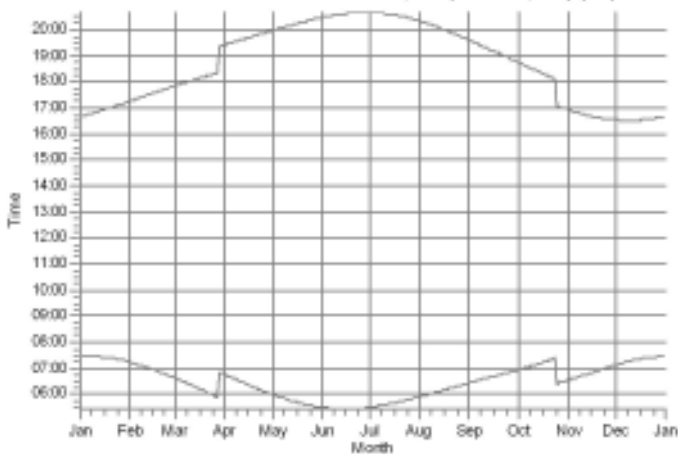
27: VESTAS V47 660 47.0 IO! hub: 50,0 m (TOT: 73,5 m) (4)



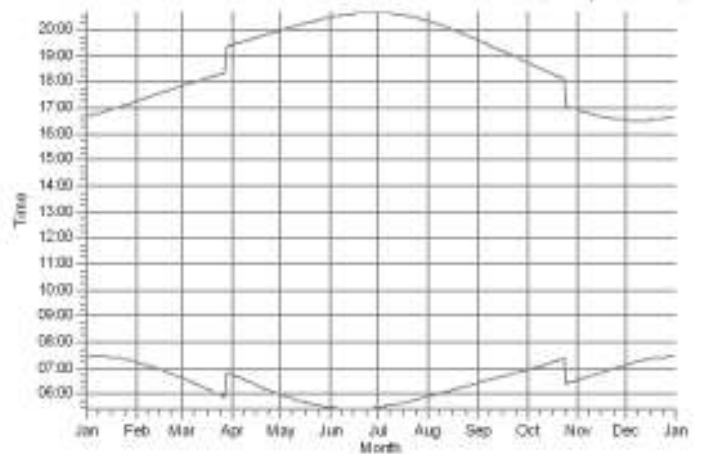
28: VESTAS V47 660 47.0 IO! hub: 50,0 m (TOT: 73,5 m) (5)



29: VESTAS V47 660 47.0 IO! hub: 50,0 m (TOT: 73,5 m) (11)

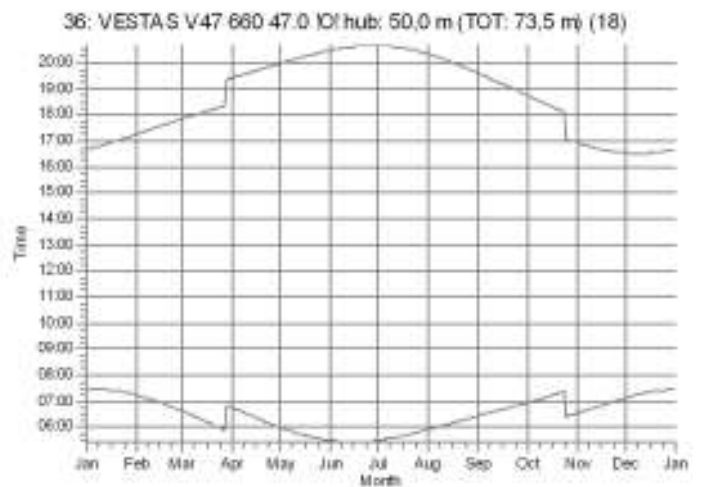
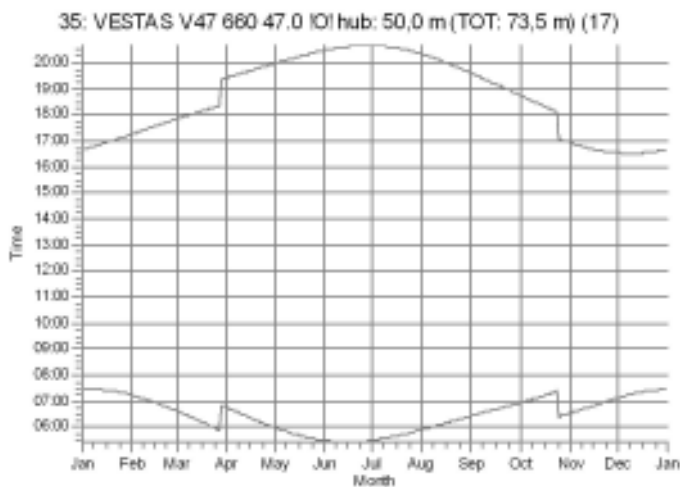
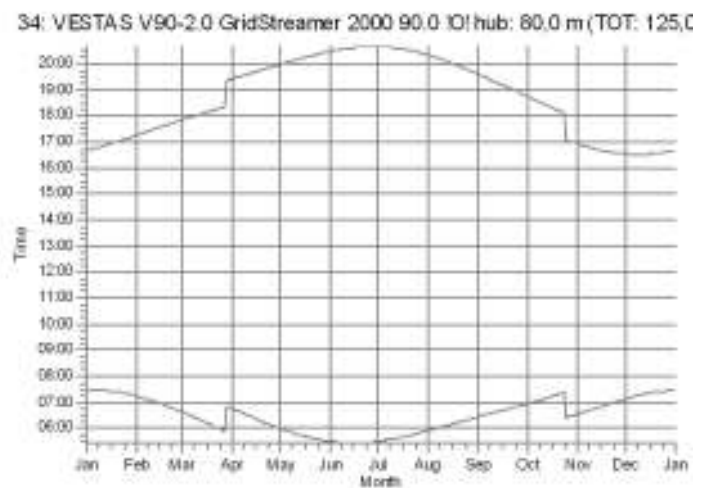
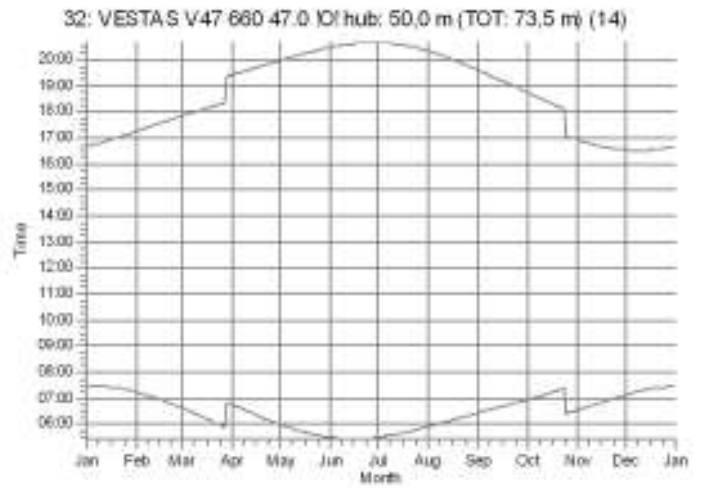
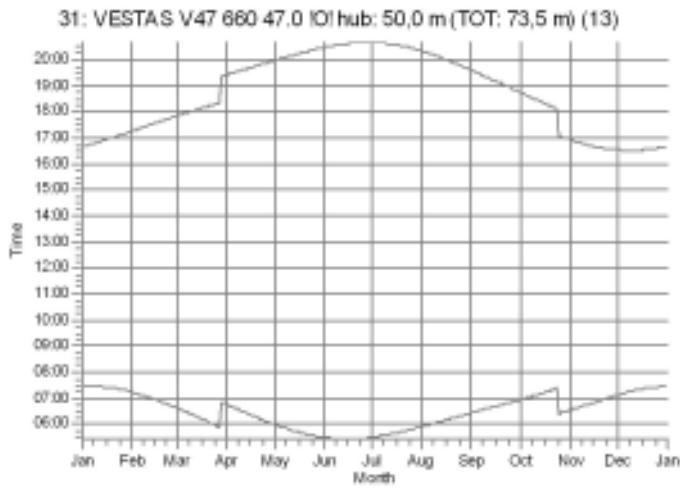


30: VESTAS V90-2.0 GridStreamer 2000 90.0 IO! hub: 80,0 m (TOT: 125,0)



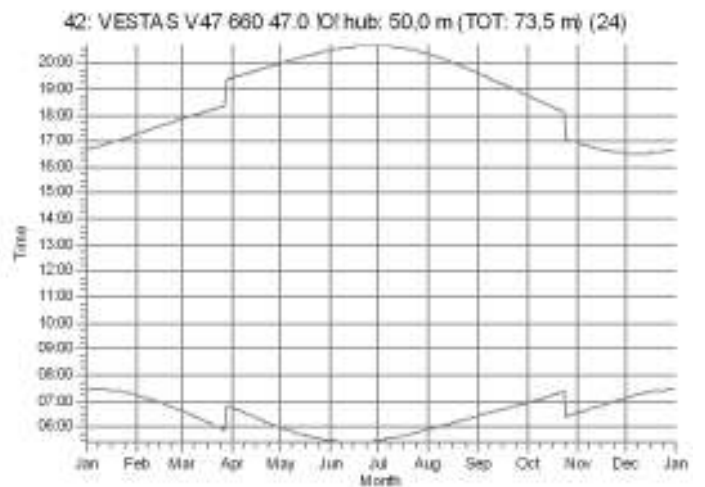
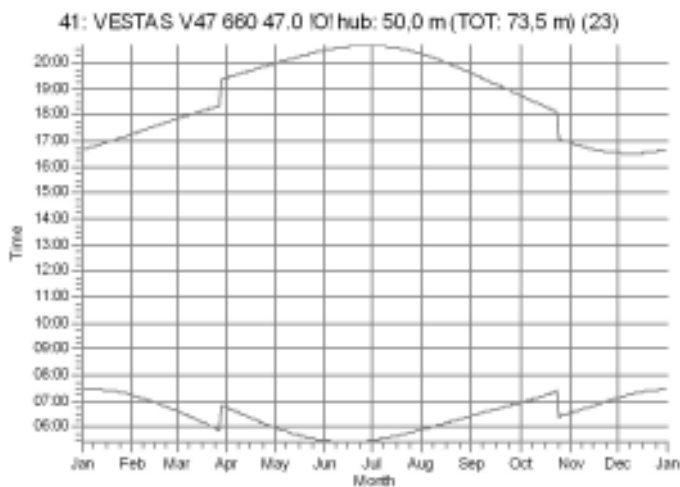
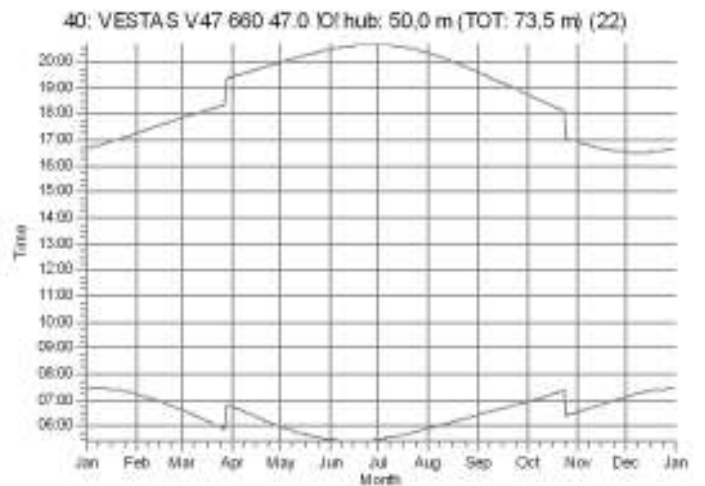
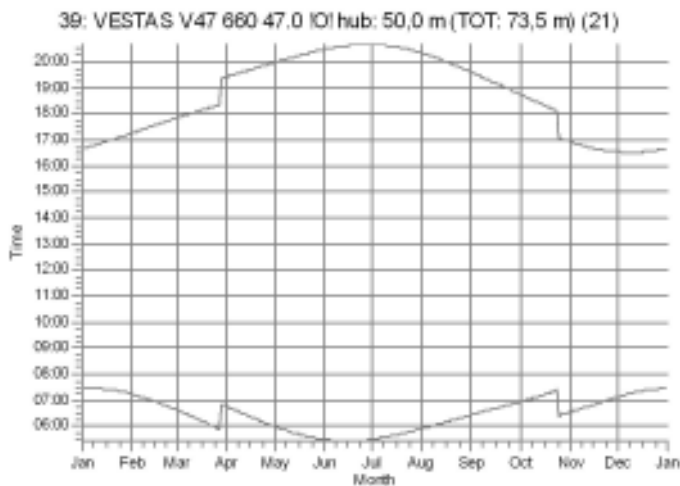
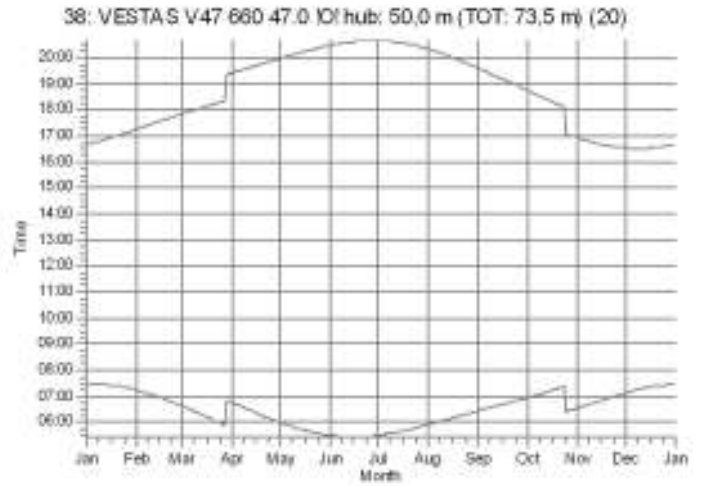
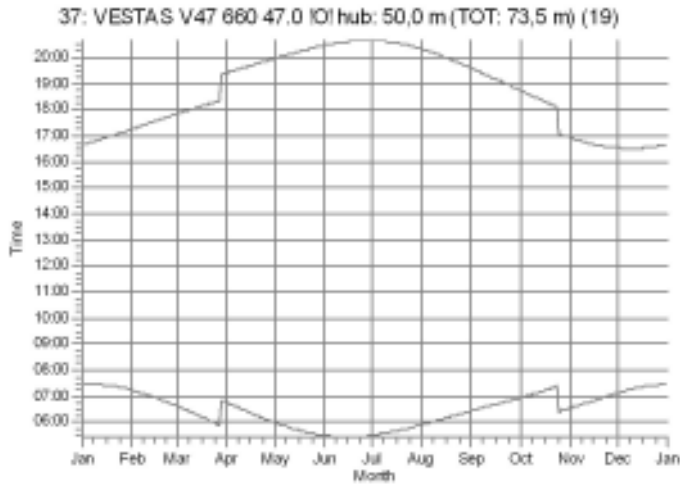
Shadow receptors

SHADOW - Calendar per WTG, graphical



Shadow receptors

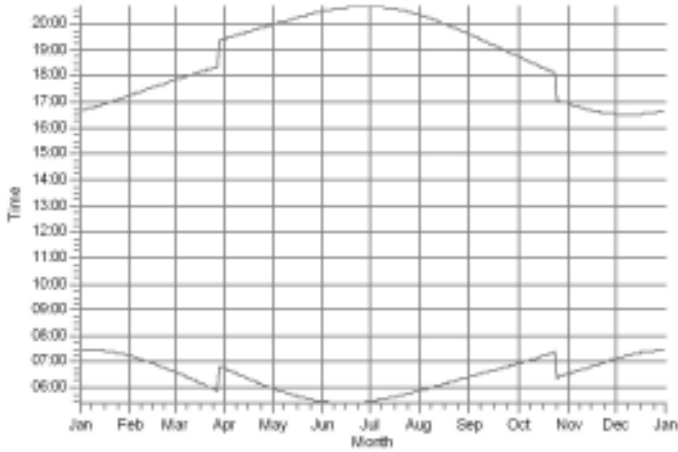
SHADOW - Calendar per WTG, graphical



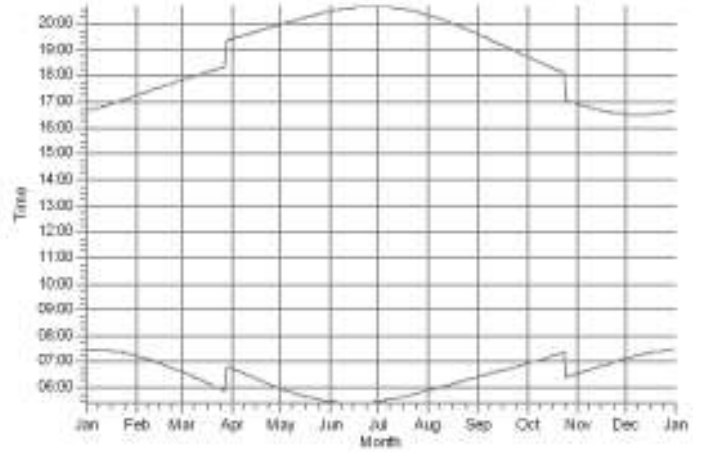
Shadow receptors

SHADOW - Calendar per WTG, graphical

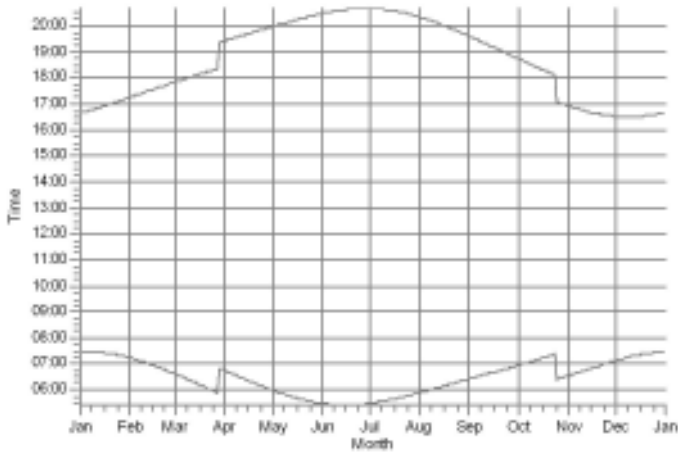
43: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125,0



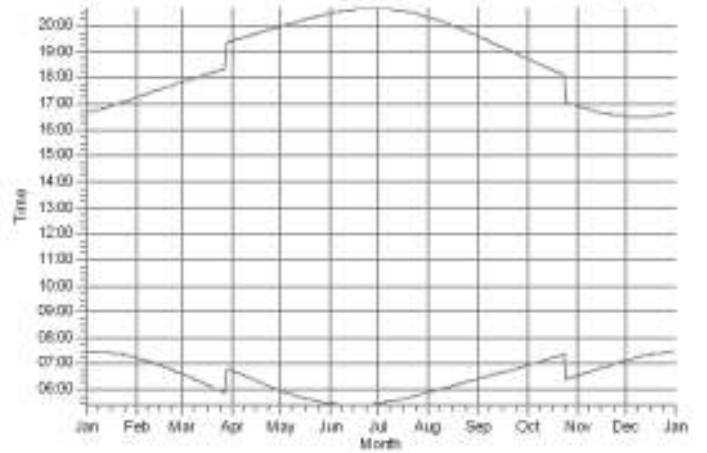
44: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125,0



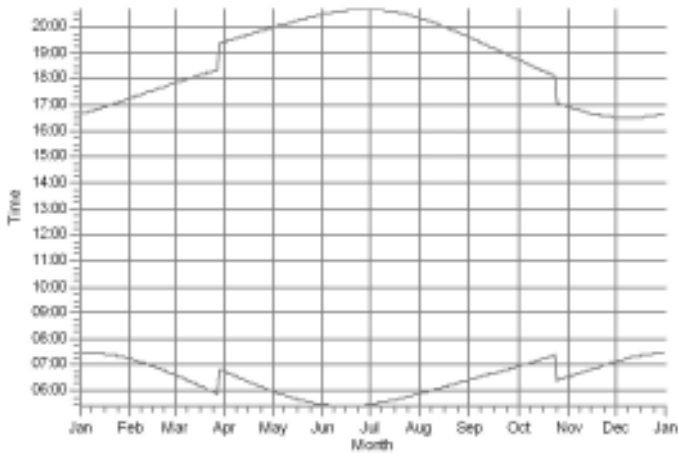
45: REpower MM92 2050 92.5 IOI hub: 80,0 m (TOT: 126,3 m) (27)



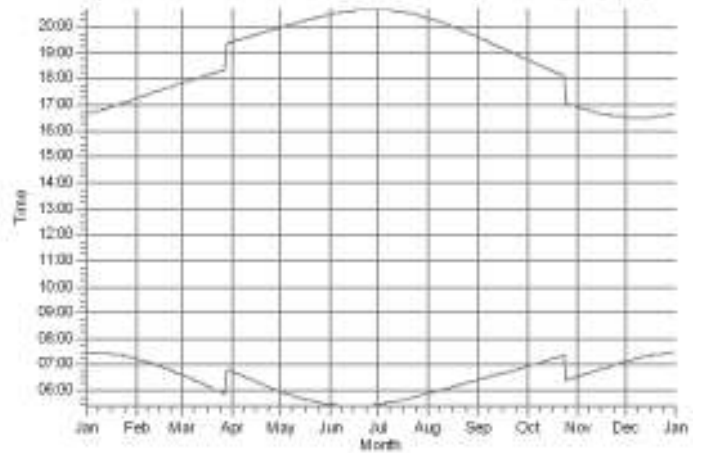
46: REpower MM92 2050 92.5 IOI hub: 80,0 m (TOT: 126,3 m) (28)



47: REpower MM92 2050 92.5 IOI hub: 80,0 m (TOT: 126,3 m) (29)

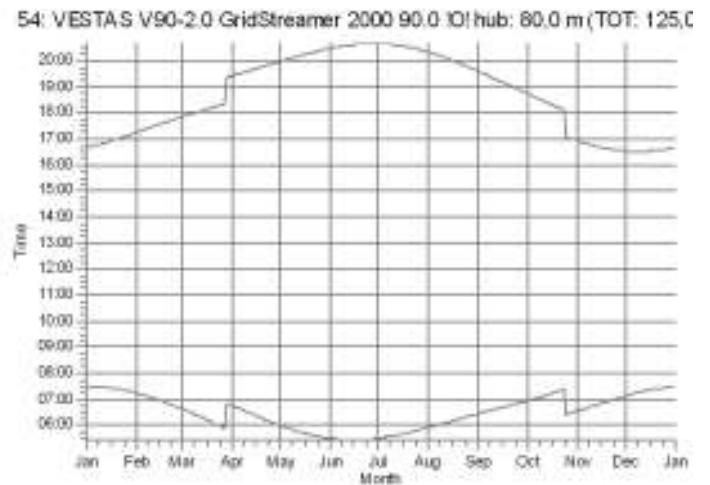
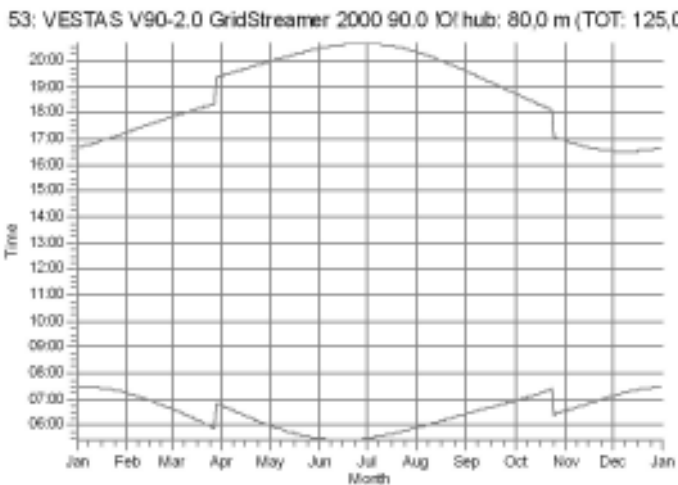
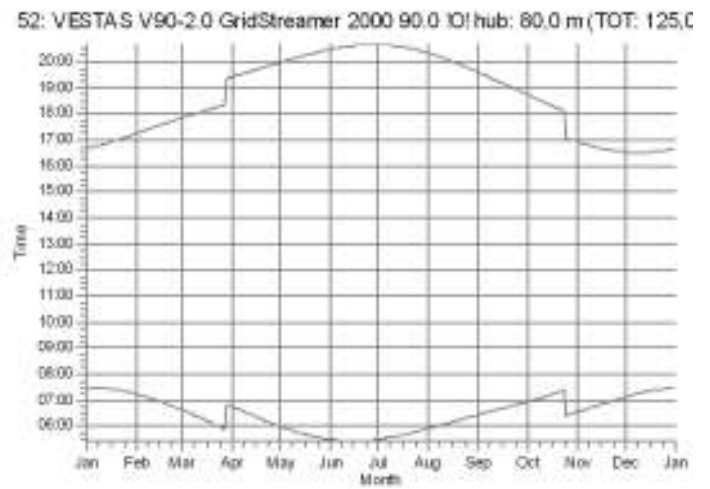
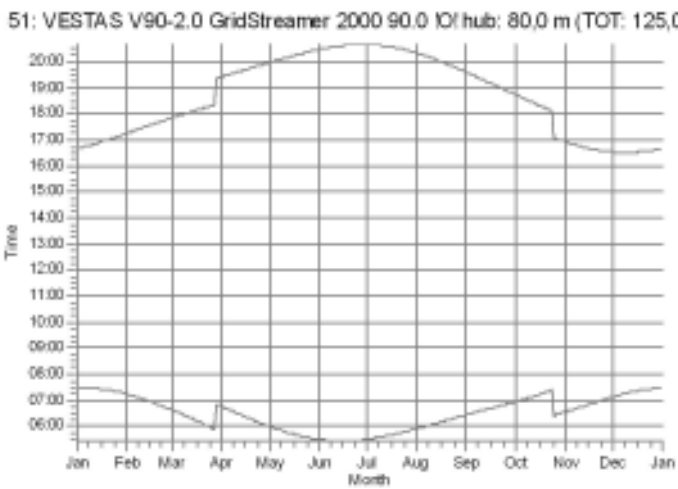
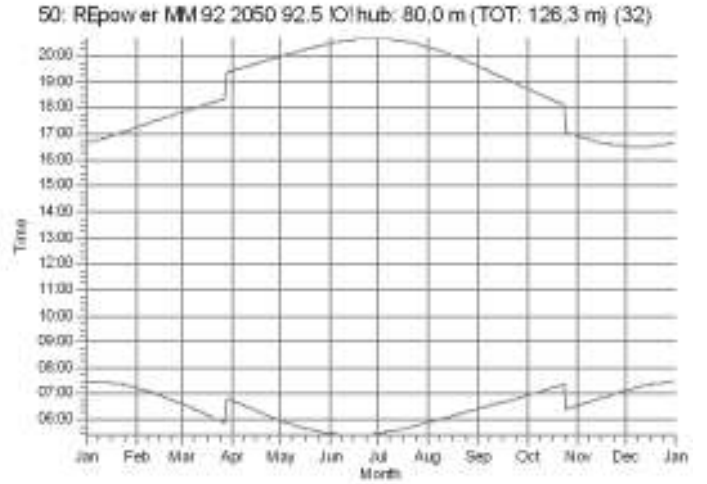
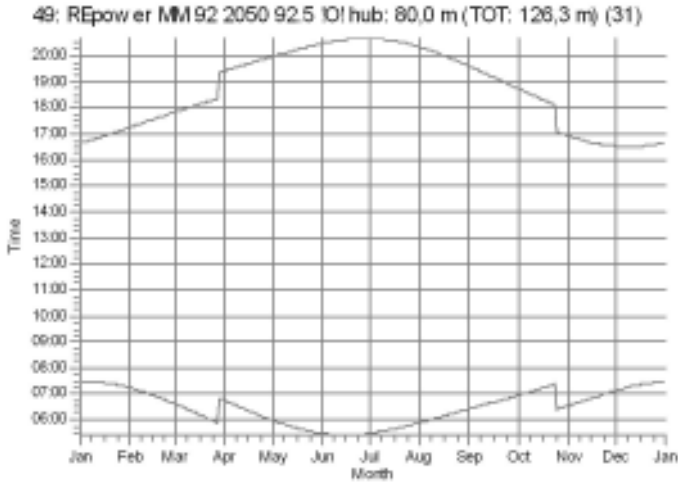


48: REpower MM92 2050 92.5 IOI hub: 80,0 m (TOT: 126,3 m) (30)



Shadow receptors

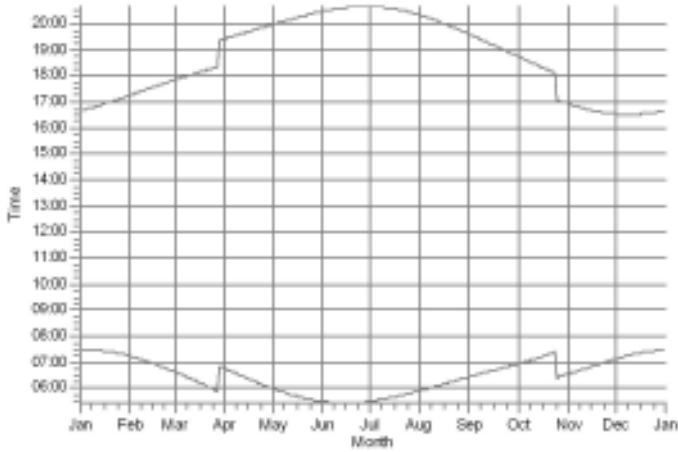
SHADOW - Calendar per WTG, graphical



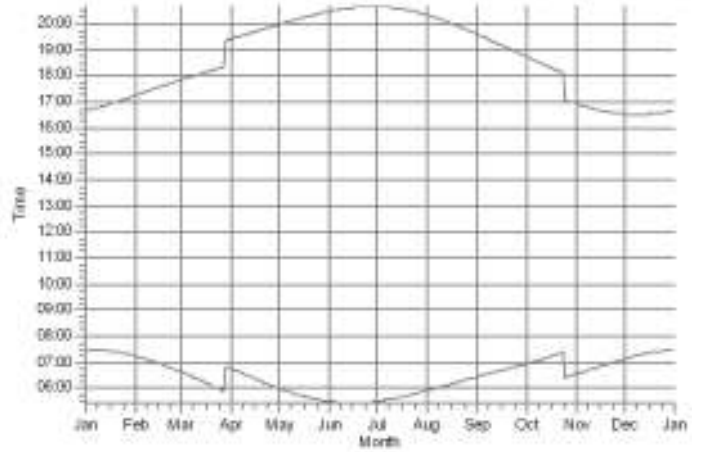
Shadow receptors

SHADOW - Calendar per WTG, graphical

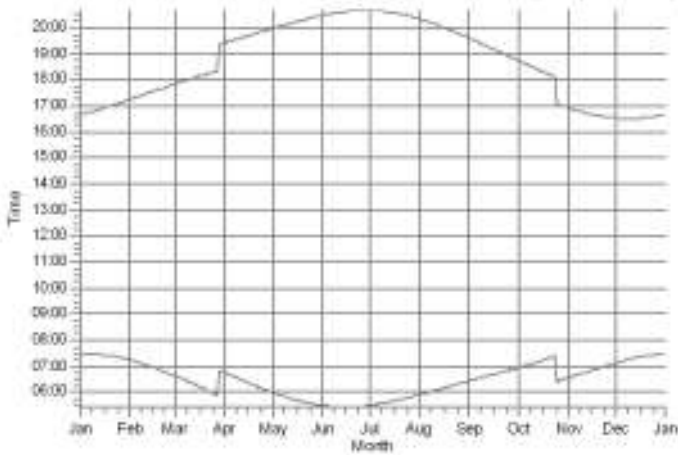
55: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



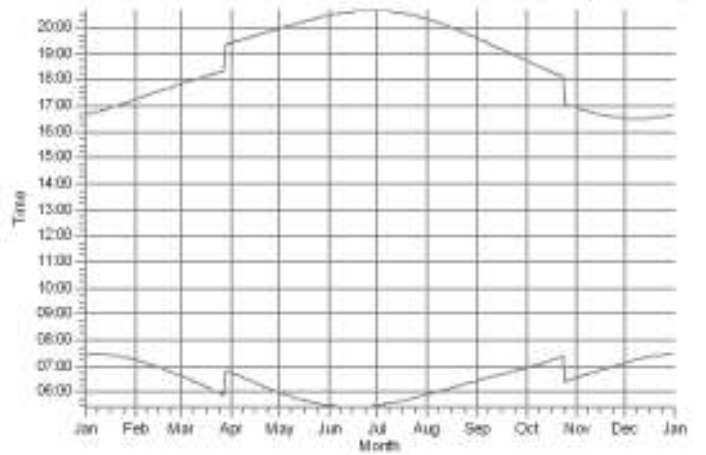
56: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



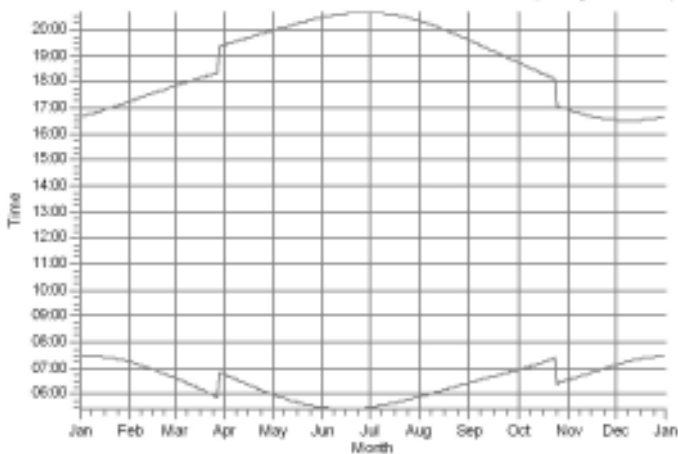
57: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



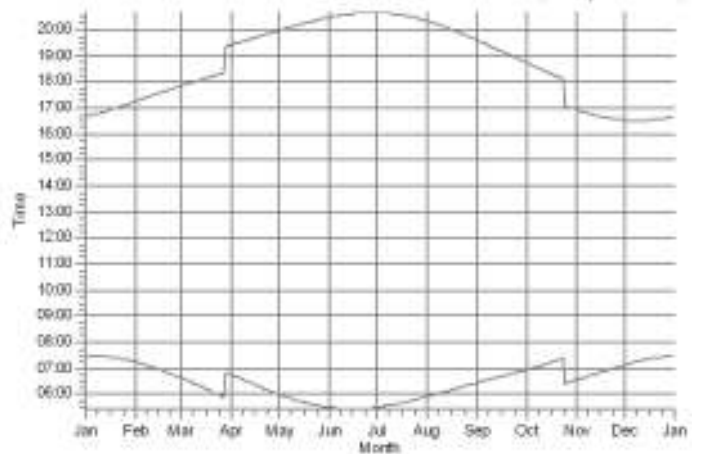
58: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



59: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



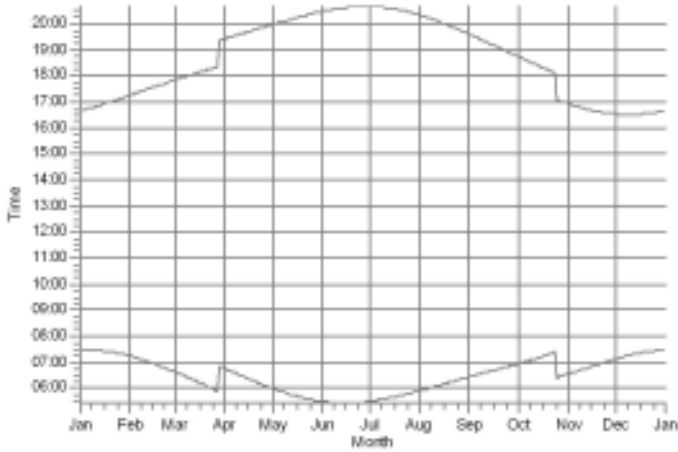
60: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



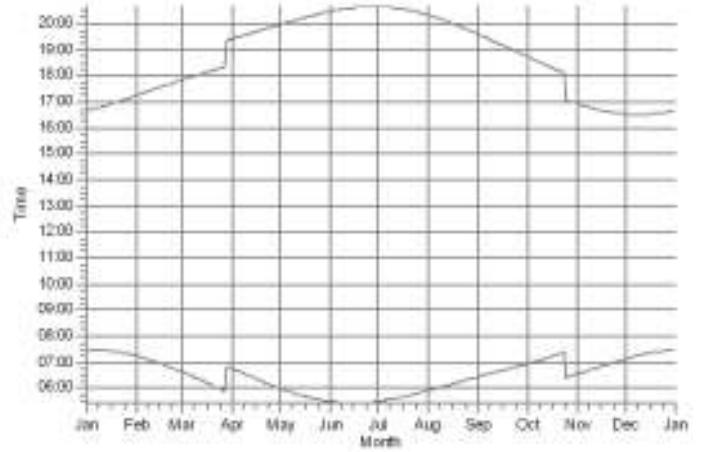
Shadow receptors

SHADOW - Calendar per WTG, graphical

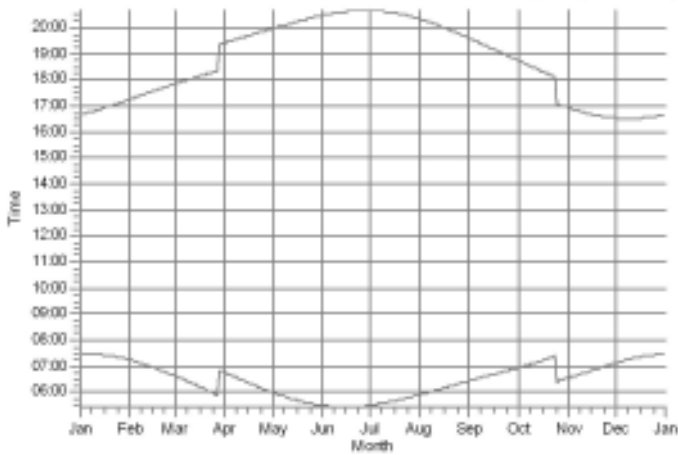
61: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



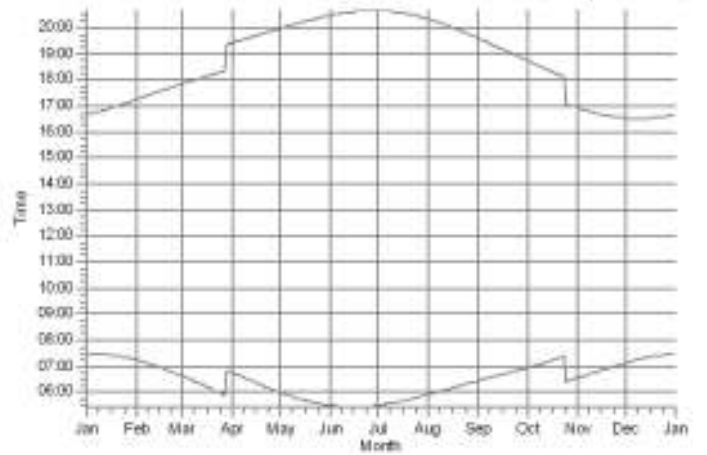
62: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



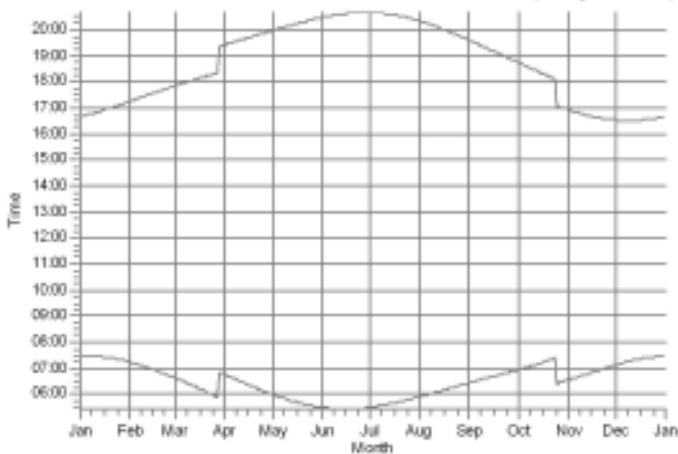
63: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



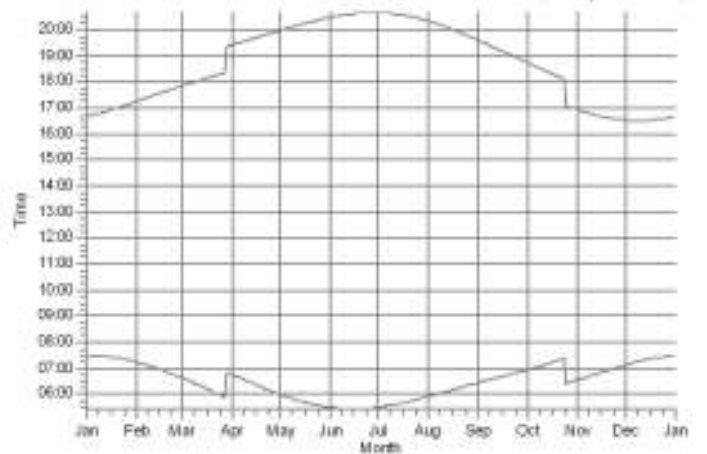
64: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



65: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



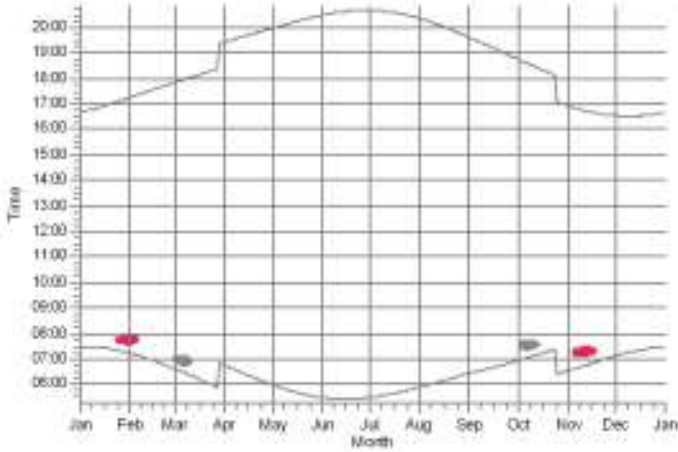
66: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



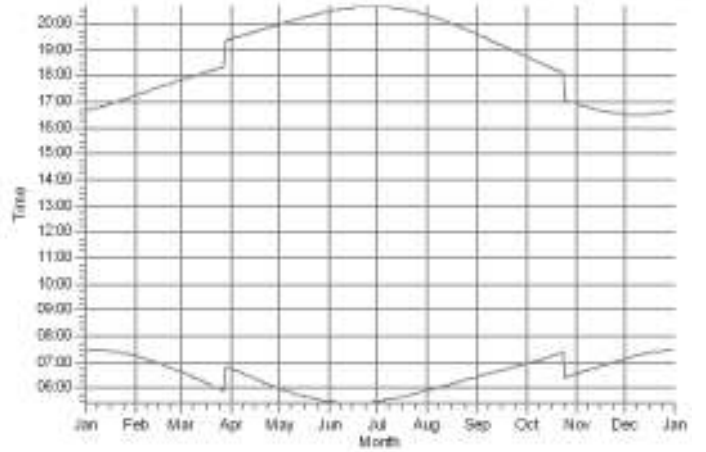
Shadow receptors

SHADOW - Calendar per WTG, graphical

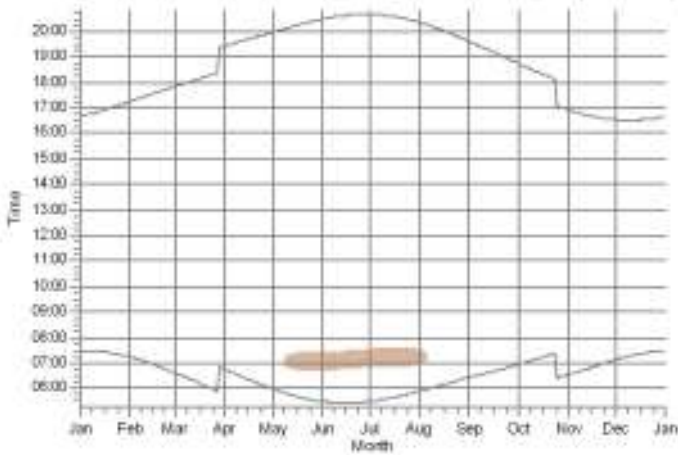
67: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



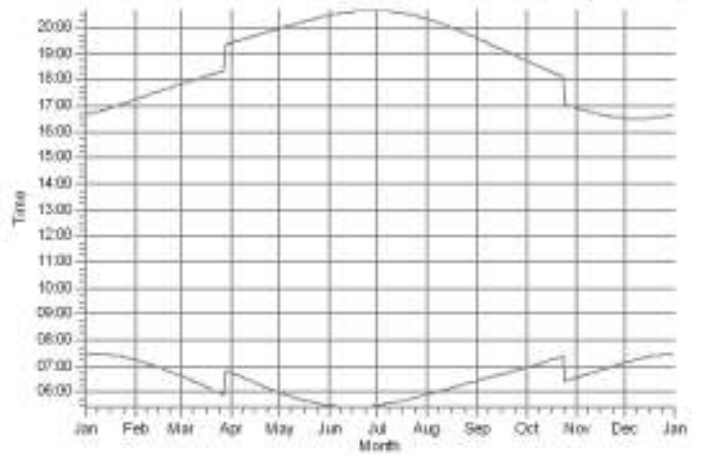
68: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



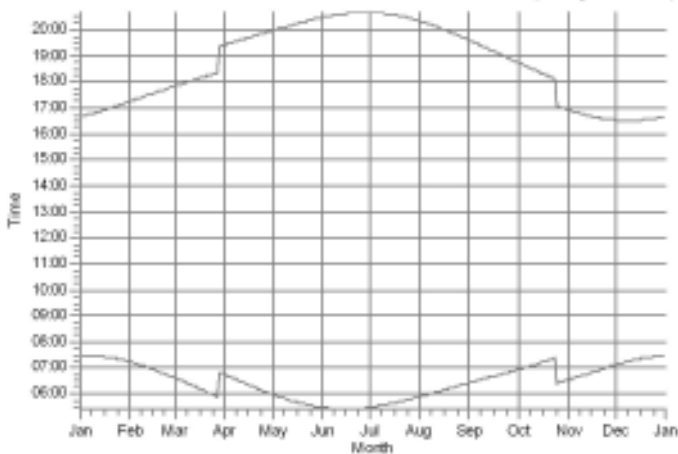
69: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



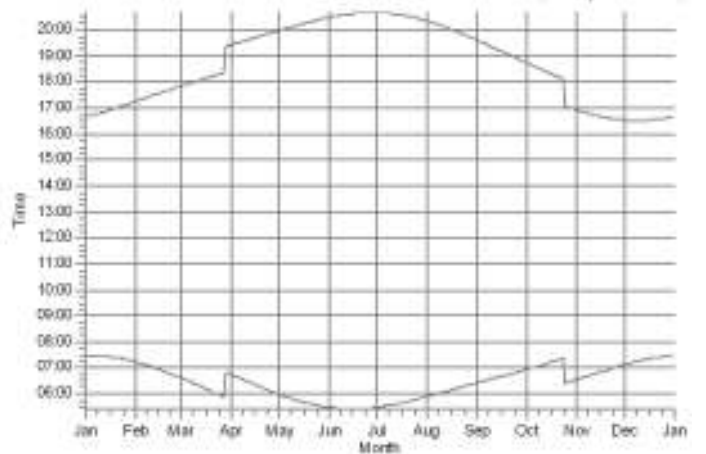
70: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



71: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



72: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125,0



Shadow receptors

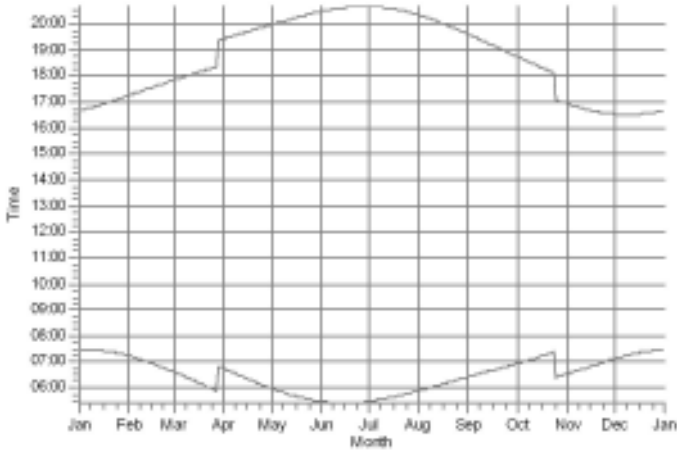
R17: Shadow Receptor: 1.0 x 1.0 Admuth: 0.0° Slope: 90.0° (6)

R5: Shadow Receptor: 1.0 x 1.0 Admuth: 0.0° Slope: 90.0° (2)

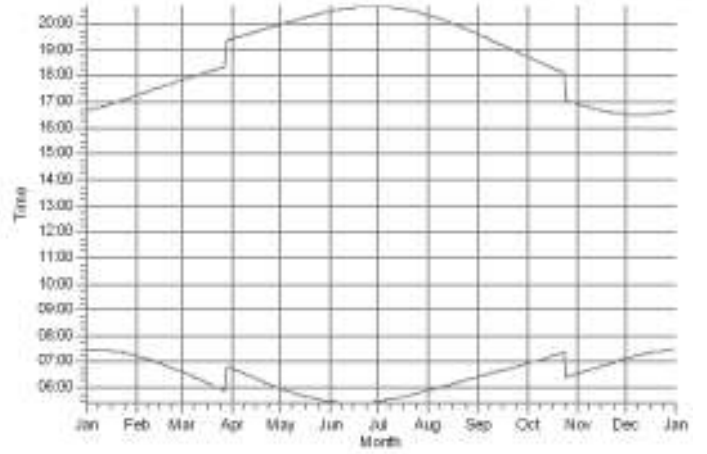
R7: Shadow Receptor: 1.0 x 1.0 Admuth: 0.0° Slope: 90.0° (3)

SHADOW - Calendar per WTG, graphical

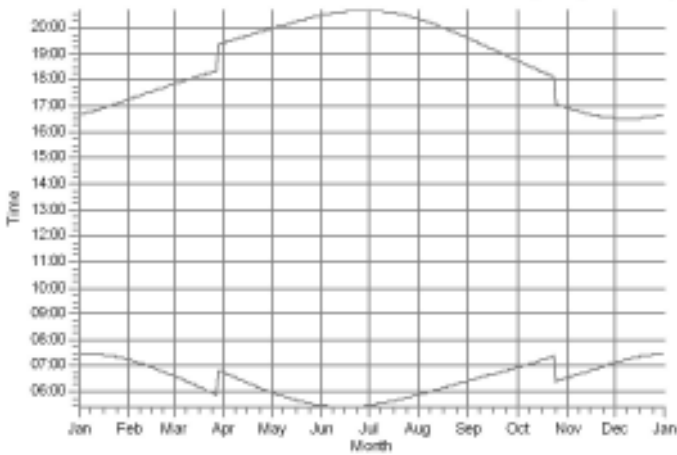
73: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



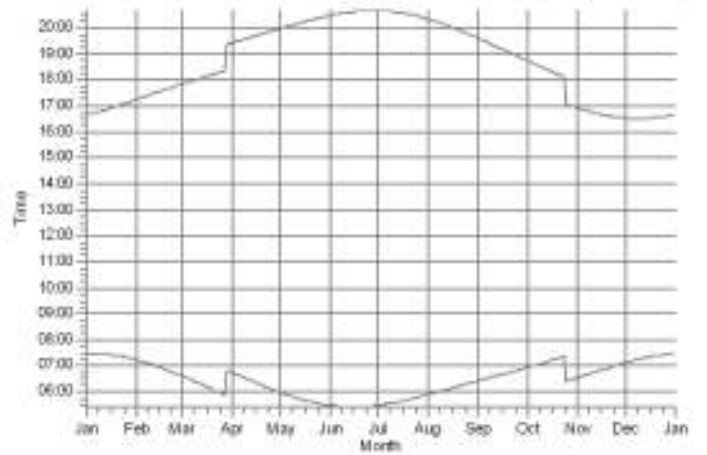
74: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



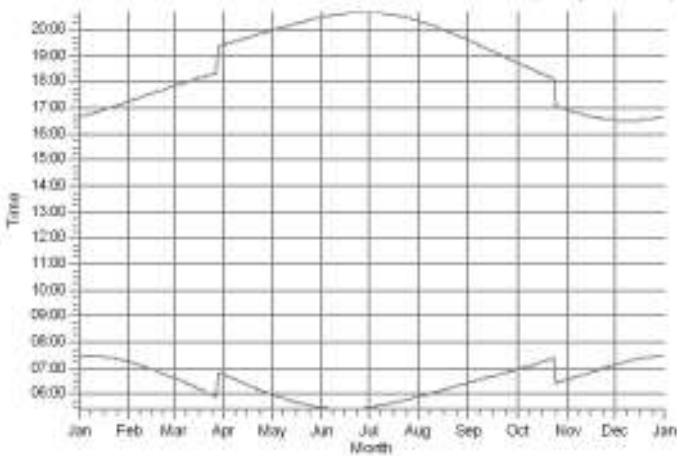
75: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



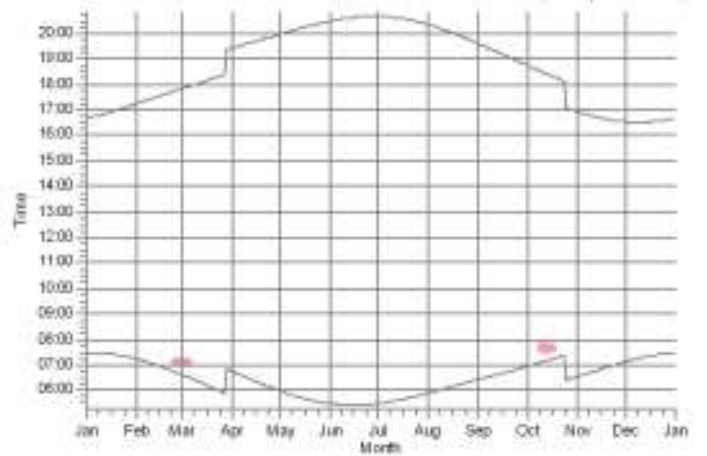
76: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



77: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



78: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)

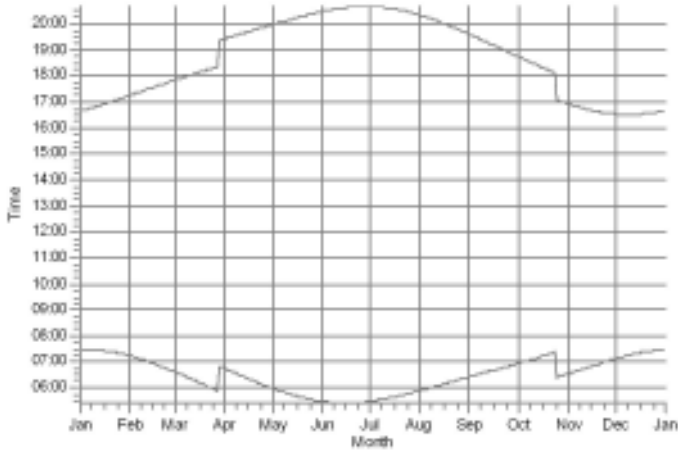


Shadow receptors

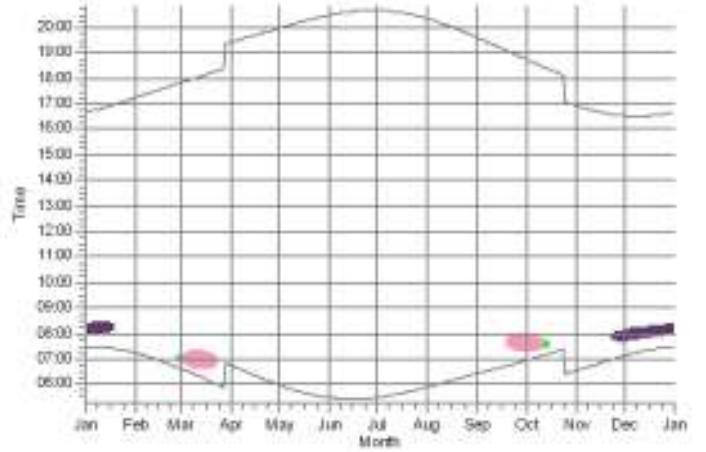
R70: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (40)

SHADOW - Calendar per WTG, graphical

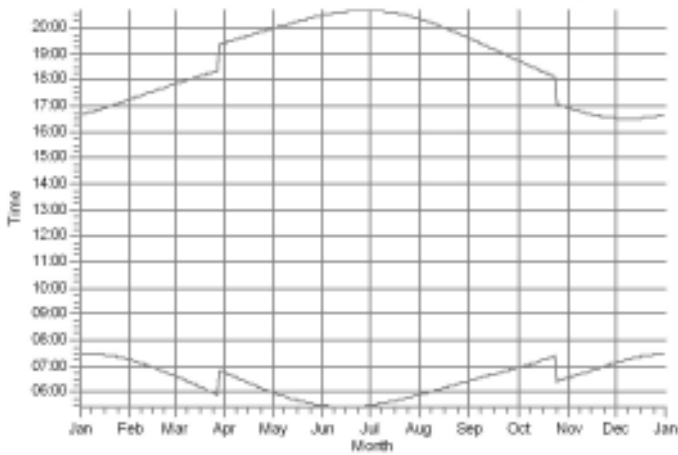
79: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



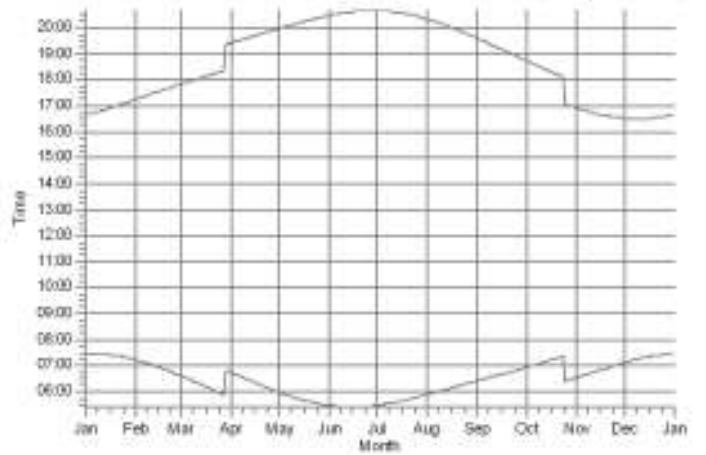
80: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



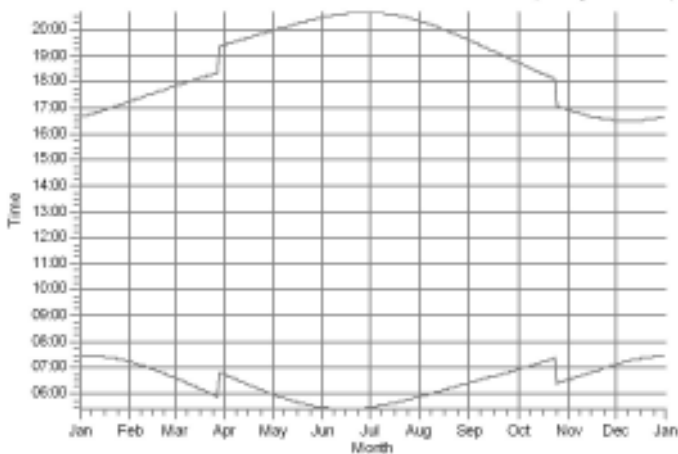
81: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



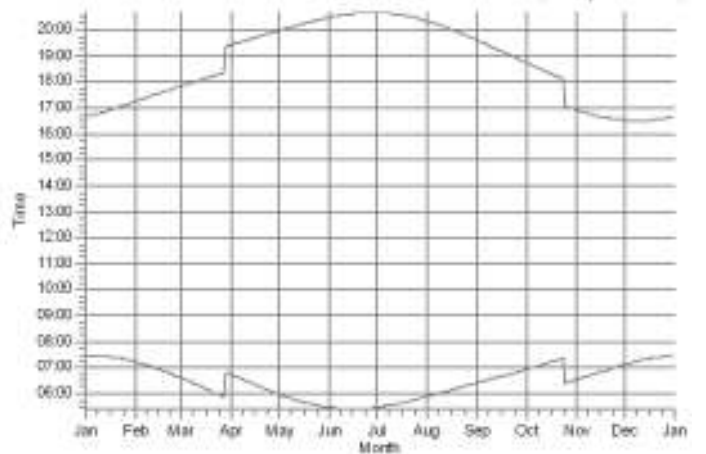
82: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



83: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



84: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



Shadow receptors

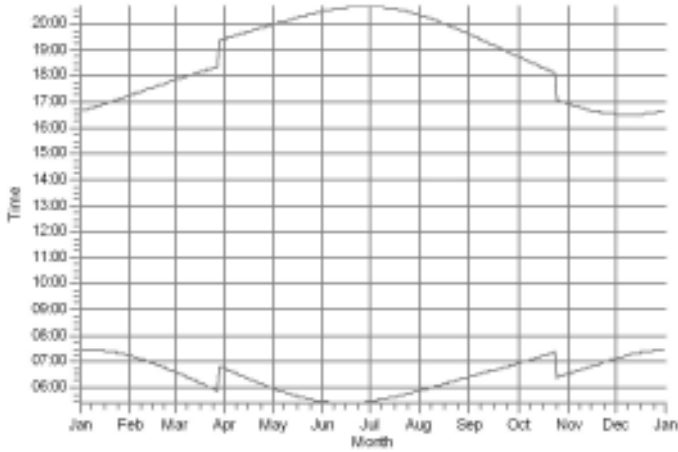
■ R14: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (65)

■ R76: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (46)

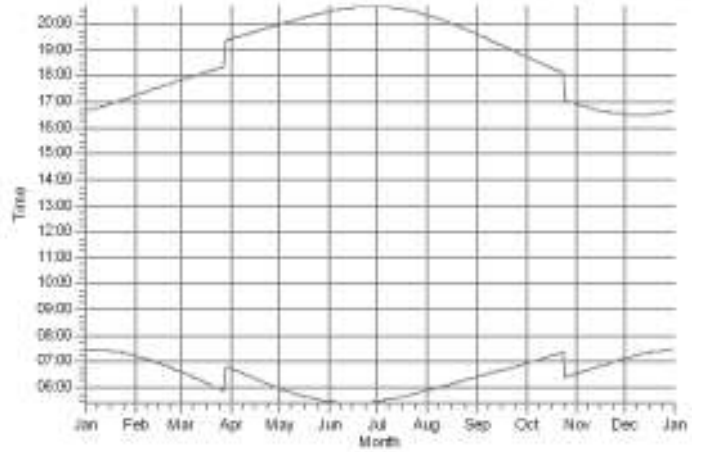
■ R85: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 90.0° (50)

SHADOW - Calendar per WTG, graphical

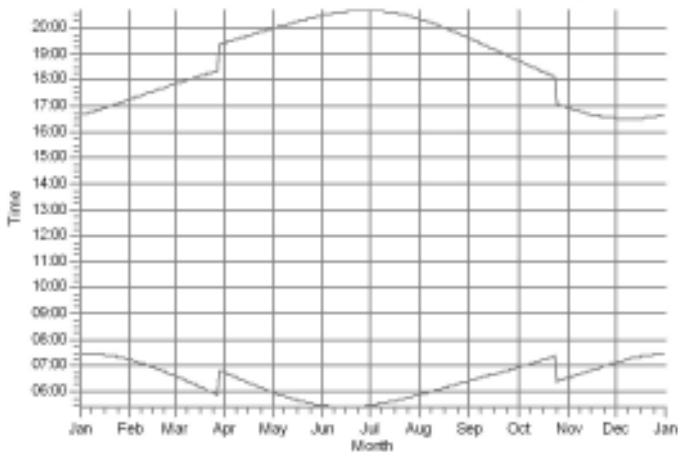
85: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



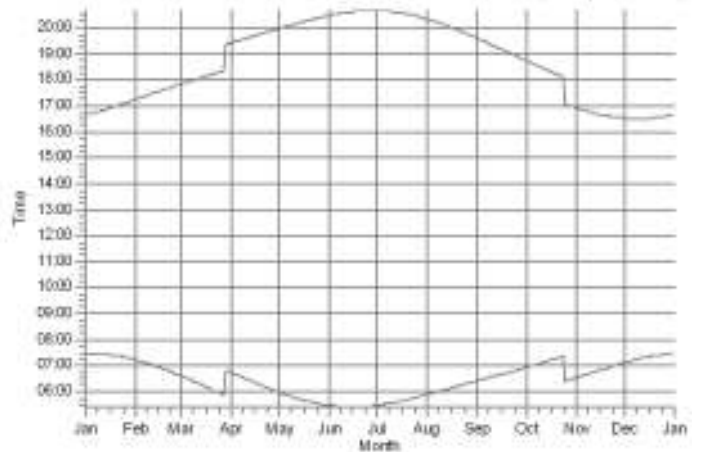
86: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



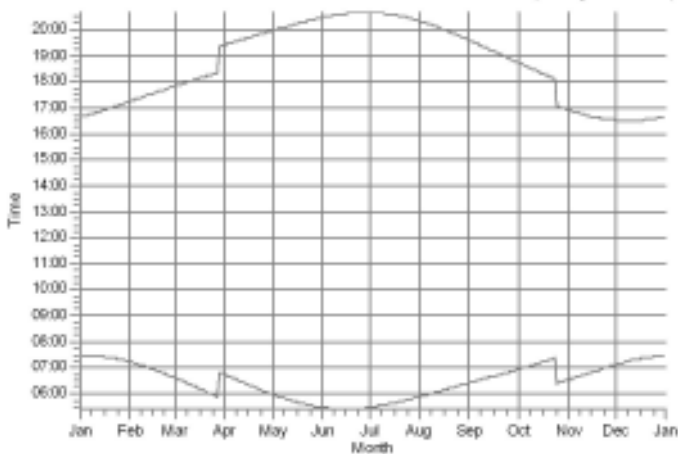
87: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



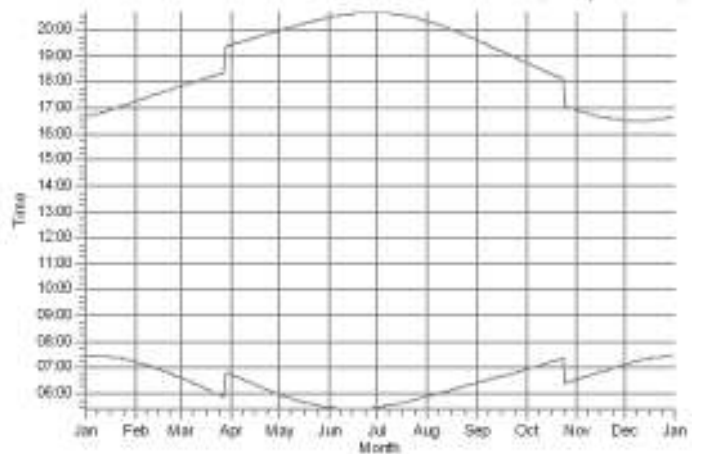
88: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



89: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



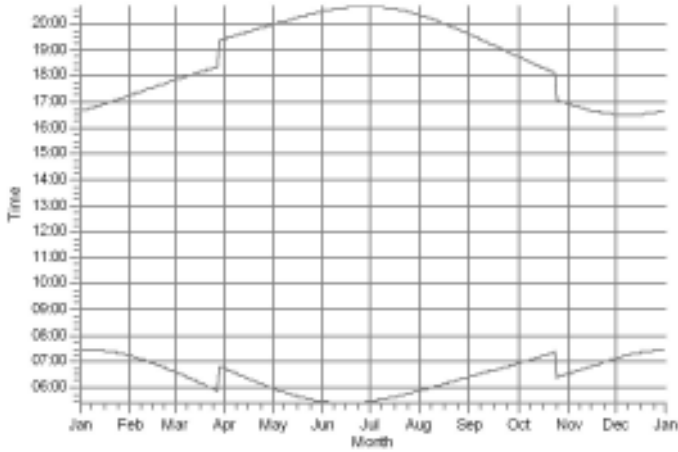
90: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



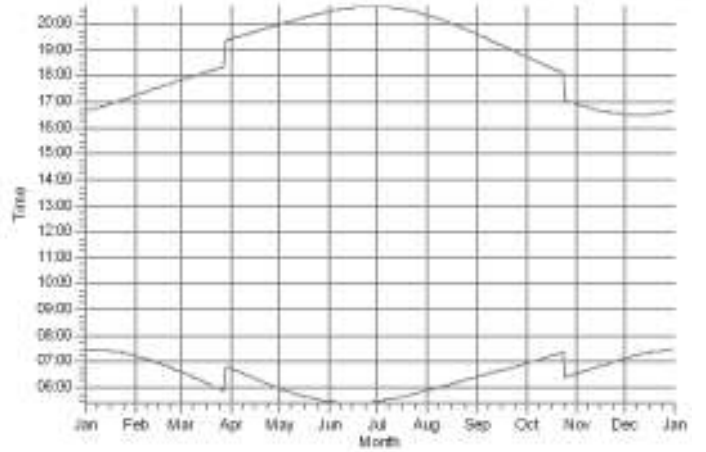
Shadow receptors

SHADOW - Calendar per WTG, graphical

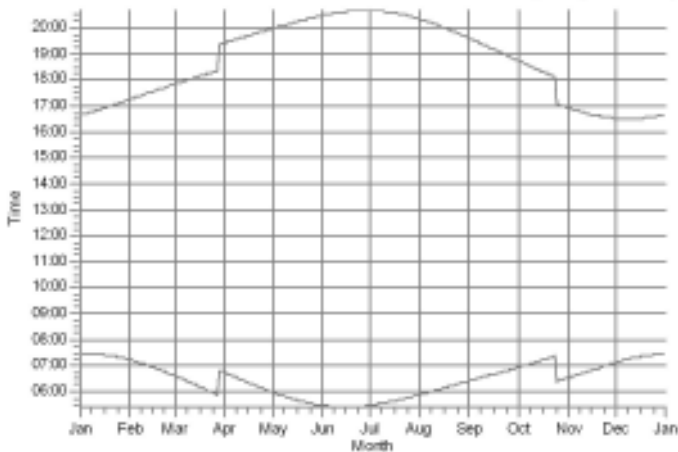
91: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



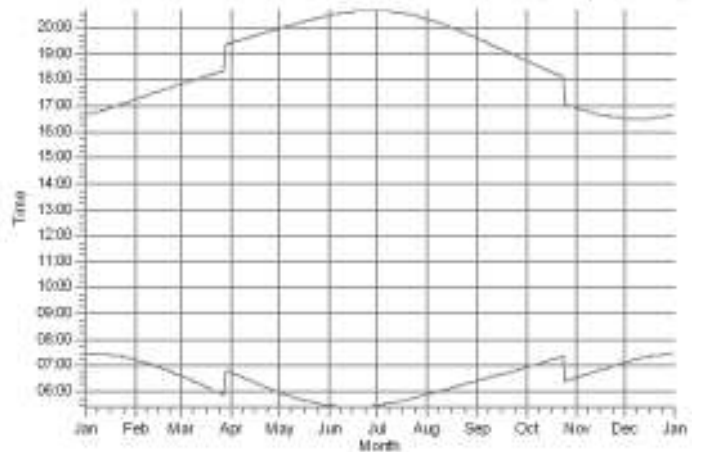
92: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



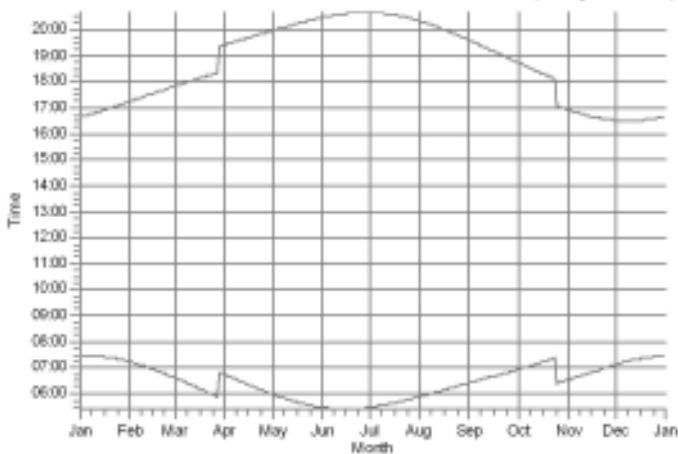
93: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



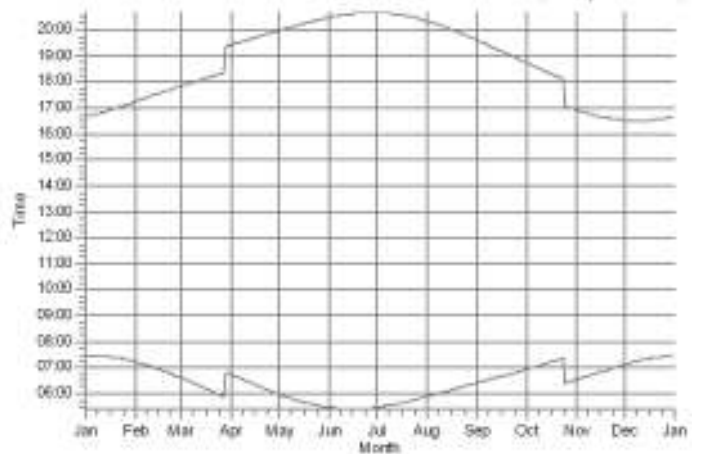
94: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



95: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



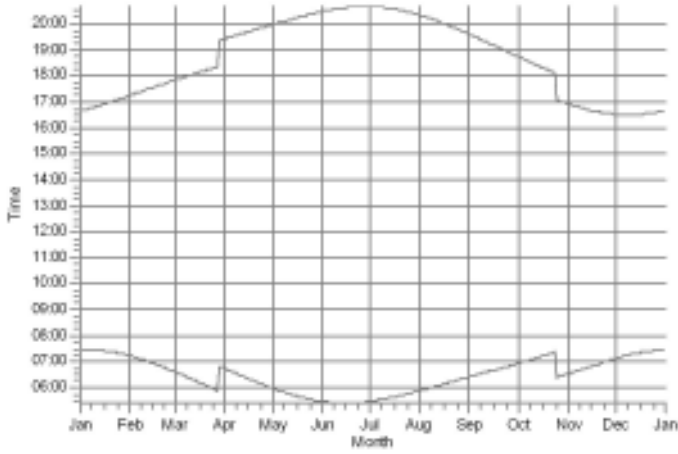
96: VESTAS V90-2.0 GridStreamer 2000 90.0 ID/hub: 80.0 m (TOT: 125.0)



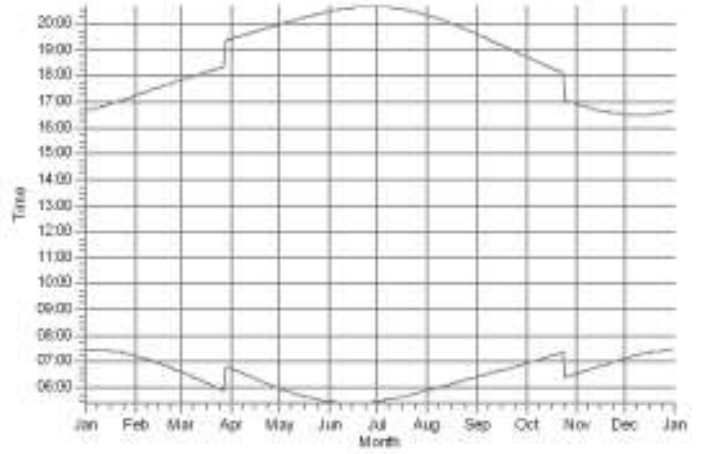
Shadow receptors

SHADOW - Calendar per WTG, graphical

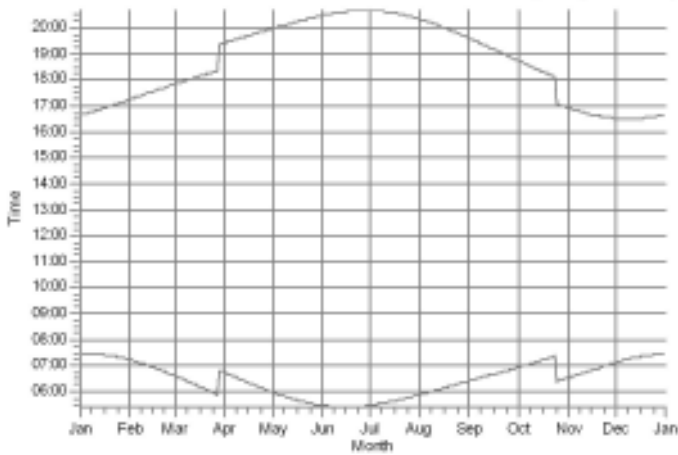
97: VESTAS V90-2.0 GridStreamer 2000 90.0 IO/hub: 80.0 m (TOT: 125,0



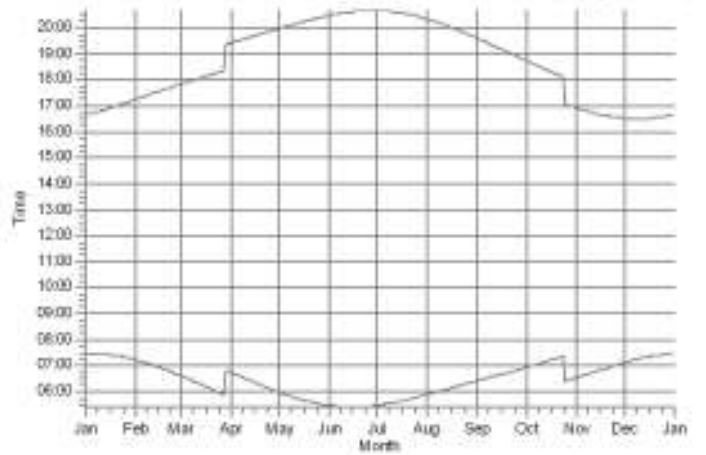
98: VESTAS V90-2.0 GridStreamer 2000 90.0 IO/hub: 80.0 m (TOT: 125,0



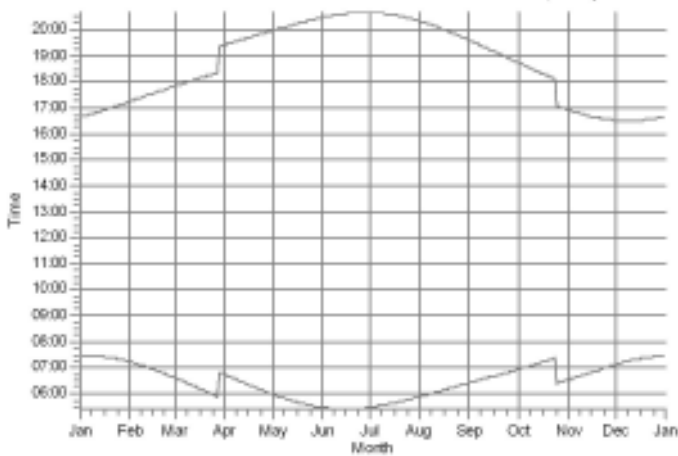
99: VESTAS V90-2.0 GridStreamer 2000 90.0 IO/hub: 80.0 m (TOT: 125,0



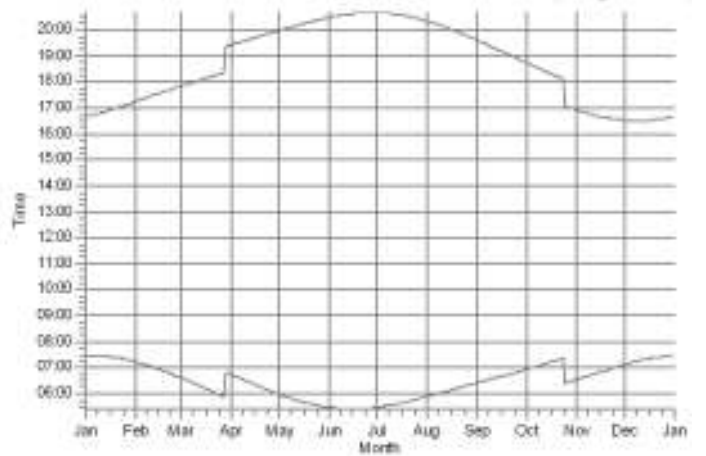
100: VESTAS V90-2.0 GridStreamer 2000 90.0 IO/hub: 80.0 m (TOT: 125



101: VESTAS V90-2.0 GridStreamer 2000 90.0 IO/hub: 80.0 m (TOT: 125



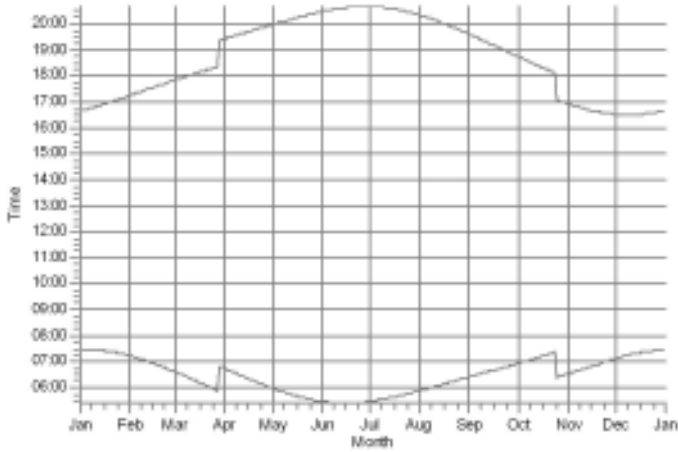
102: VESTAS V90-2.0 GridStreamer 2000 90.0 IO/hub: 80.0 m (TOT: 125



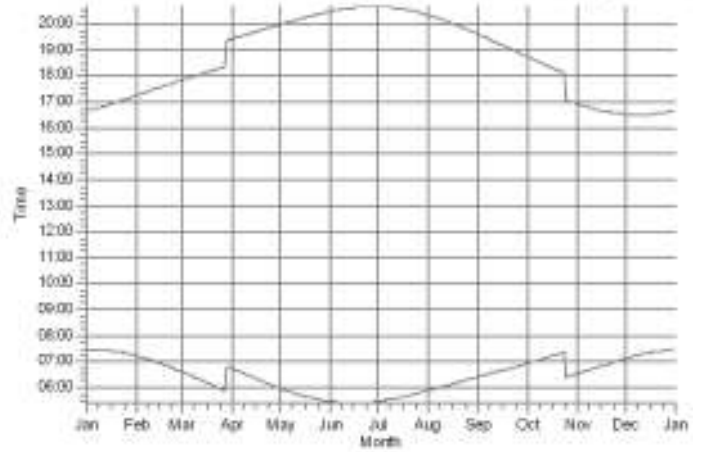
Shadow receptors

SHADOW - Calendar per WTG, graphical

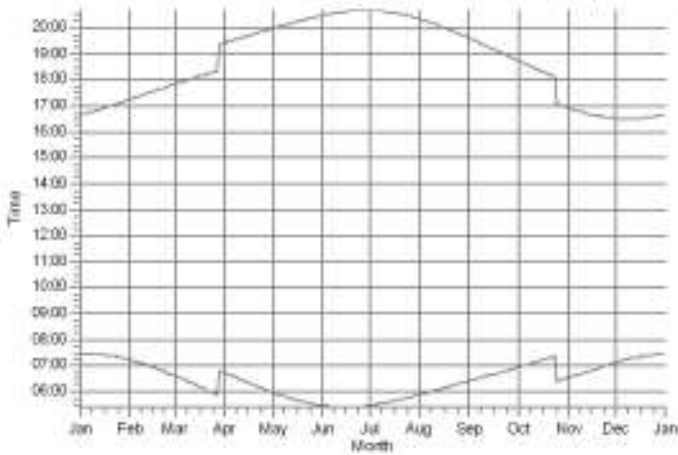
103: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



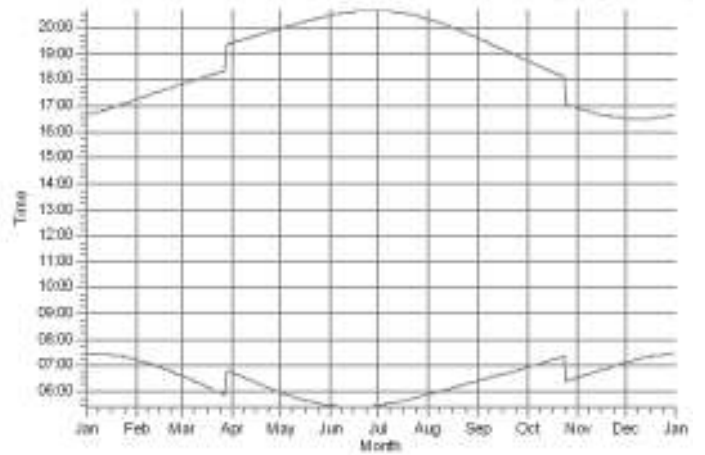
104: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



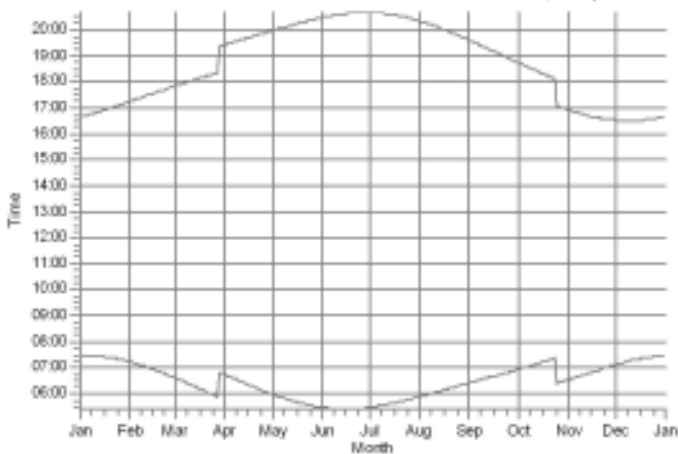
105: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



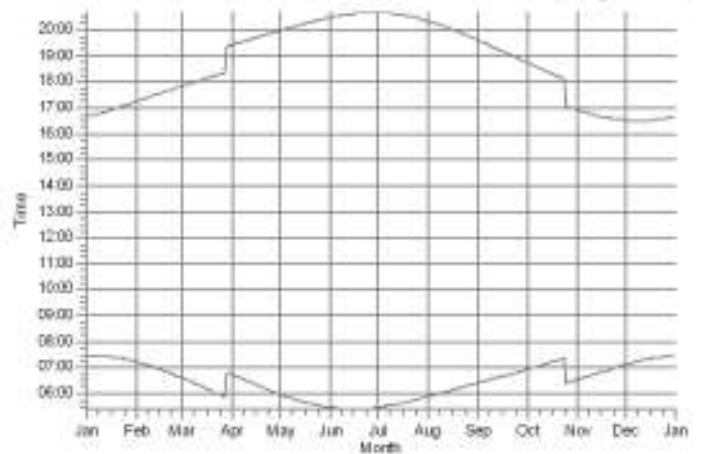
106: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



107: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



108: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



Shadow receptors

Project:

WF Montorio

Licensed user:

Ge.co.Dor srl

Via P.Amedeo n.32

IT-75021 Colobraro (MT)

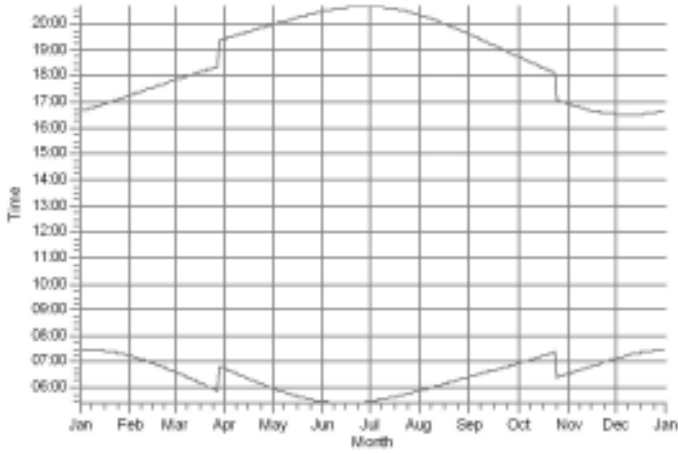
Gaetano / info@gecodor.it

Calculated:

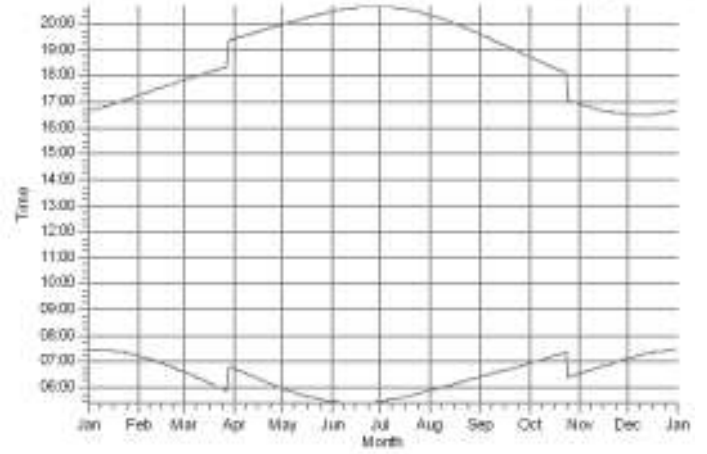
15/02/2022 19:06/3.4.424

SHADOW - Calendar per WTG, graphical

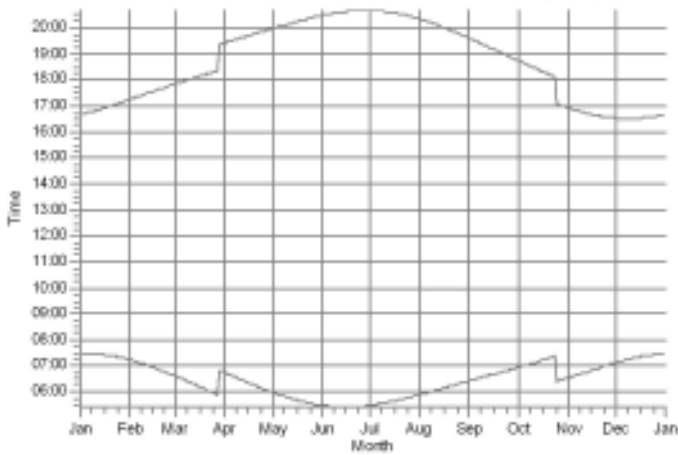
109: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



110: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125

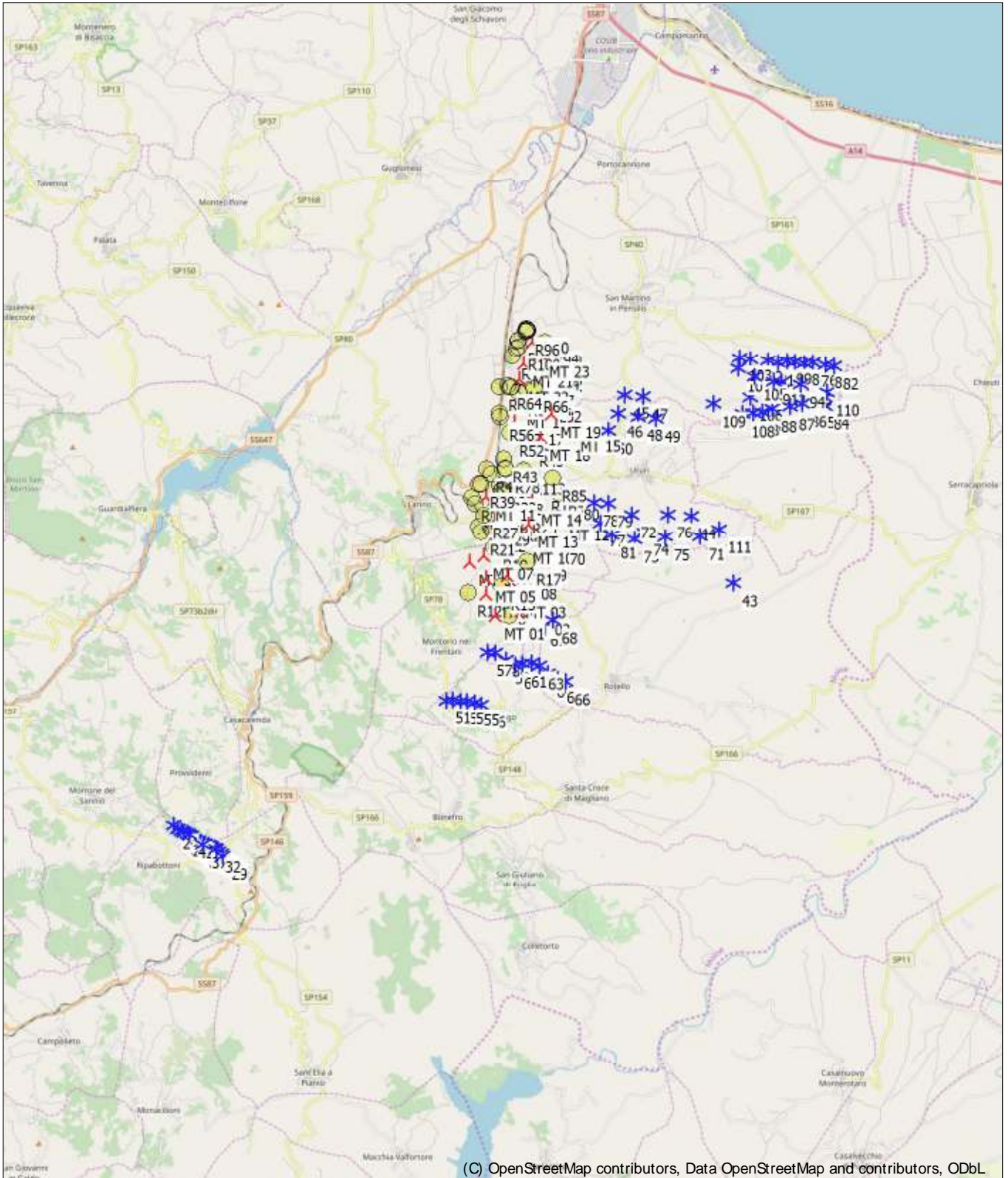


111: VESTAS V90-2.0 GridStreamer 2000 90.0 IOI hub: 80,0 m (TOT: 125



Shadow receptors

SHADOW - Map



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



Map: EMD OpenStreetMap , Print scale 1:200.000, Map center Geo WGS84 East: 14,957281° E North: 41,777073° N

- ▲ New WTG
- ✱ Existing WTG
- Shadow receptor

Flicker map level: Elevation Grid Data Object: WF Montorio_EMDGrid_0.wpg (1)