



Regione
Molise



Comune di
Riccia



Comune di
Cercemaggiore



Provincia di
Campobasso

PROGETTO PER LA REALIZZAZIONE
DI UN PARCO EOLICO PER LA PRODUZIONE DI ENERGIA ELETTRICA
alla località Paolina del Comune di Riccia (aerogeneratori)
e DELLE OPERE CONNESSE E DELLE INFRASTRUTTURE INDISPENSABILI
nei Comuni di Riccia (CB) e Cercemaggiore (CB)

PROGETTO DEFINITIVO

RIC_SHF
Studio Impatto Shadow Flickering

Proponente



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Formato

A4

Scala

-

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1. PREMESSA

Il presente elaborato ha lo scopo di valutare in maniera tecnica l'eventuale impatto generato dall'evoluzione dell'ombra derivante dalla futura installazione di un di un parco eolico, costituito da 6 aerogeneratori, del tipo VESTAS V 150 di potenza 6 MW, per una potenza totale di 36,00 MW.

Gli aerogeneratori saranno ubicati presso le Località "Paolina" e "Montagna fiorita" del Comune di Riccia (CB), mentre le opere di connessione e le infrastrutture indispensabili interesseranno i comuni di Riccia (CB) e Cercemaggiore (CB).

La valutazione tecnica è eseguita con l'ausilio di un software di simulazione specifico per la progettazione degli impianti eolici WIND PRO®, costituito da un insieme di moduli di elaborazione orientati alla simulazione di una moltitudine di aspetti che caratterizzano le diverse fasi progettuali. Il modulo SHADOW è quello specifico per la valutazione dell'evoluzione dell'ombra e del flickering. A seguire si riportano la tabella di riepilogo delle principali caratteristiche della turbina considerata nel layout di progetto ed inserita nel modello di simulazione per la valutazione del potenziale effetto di Shadow/Flickering cui i recettori potrebbero essere soggetti.

L'aerogeneratore preso come modello per lo studio è del tipo VESTAS V 150, con altezza mozzo fino a 125 m e diametro rotore pari a 150 m.

Nella tabella seguente si riportano le coordinate degli aerogeneratori di progetto nel sistema di riferimento delle coordinate UTM WGS84 – 33N.

Aerogeneratore	X [m]	Y [m]
WTG 1	488325,344	4591207,866
WTG 2	488907,937	4590381,536
WTG 3	489360,816	4589349,026
WTG 4	490638,343	4589177,603
WTG 5	491360,168	4589479,691
WTG 6	490859,024	4588416,196

Tabella 1 - Coordinate aerogeneratori di progetto

2. BREVE DESCRIZIONE DEL PROGETTO

Le turbine eoliche, come altre strutture fortemente sviluppate in altezza, proiettano un'ombra sulle aree adiacenti in presenza della luce solare diretta, come si evince dalla seguente figura.

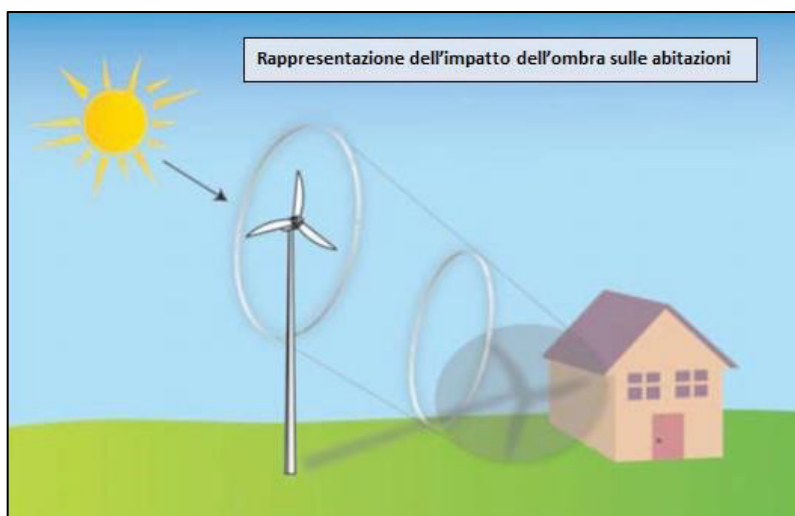


Figura 1 - Rappresentazione grafica dell'impatto dell'ombra generata da una turbina eolica

Il cosiddetto fenomeno del "flickering", che consiste in un effetto di lampeggiamento che si verifica quando le pale del rotore in movimento "tagliano" la luce solare in maniera intermittente, può provocare fastidio agli abitanti dei fabbricati situati nei pressi della turbina.

Alcune linee guida di paesi esteri raccomandano una velocità di flicker non superiore a 3 "tagli" al secondo. Per la classica turbina eolica provvista di tre pale, questo effetto corrisponde quindi ad una completa rotazione del rotore in un secondo, equivalente a 60 giri al minuto (60 rpm). Le attuali turbine in commercio hanno una velocità di rotazione ben inferiore a tali valori, di solito intorno ai 20-25 rpm a pieno regime.

Una progettazione attenta è comunque fondamentale per evitare questo spiacevole fenomeno semplicemente prevedendo il luogo di incidenza dell'ombra e disponendo le turbine in maniera tale che l'ombra sulle zone sensibili non superi un certo numero di ore all'anno.

In figura 2 si riporta l'evoluzione annuale dell'ombra di una turbina considerando il caso peggiore di pale sempre in rotazione intorno al mozzo, e orientate sempre ortogonalmente al sole durante la sua evoluzione giornaliera.

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

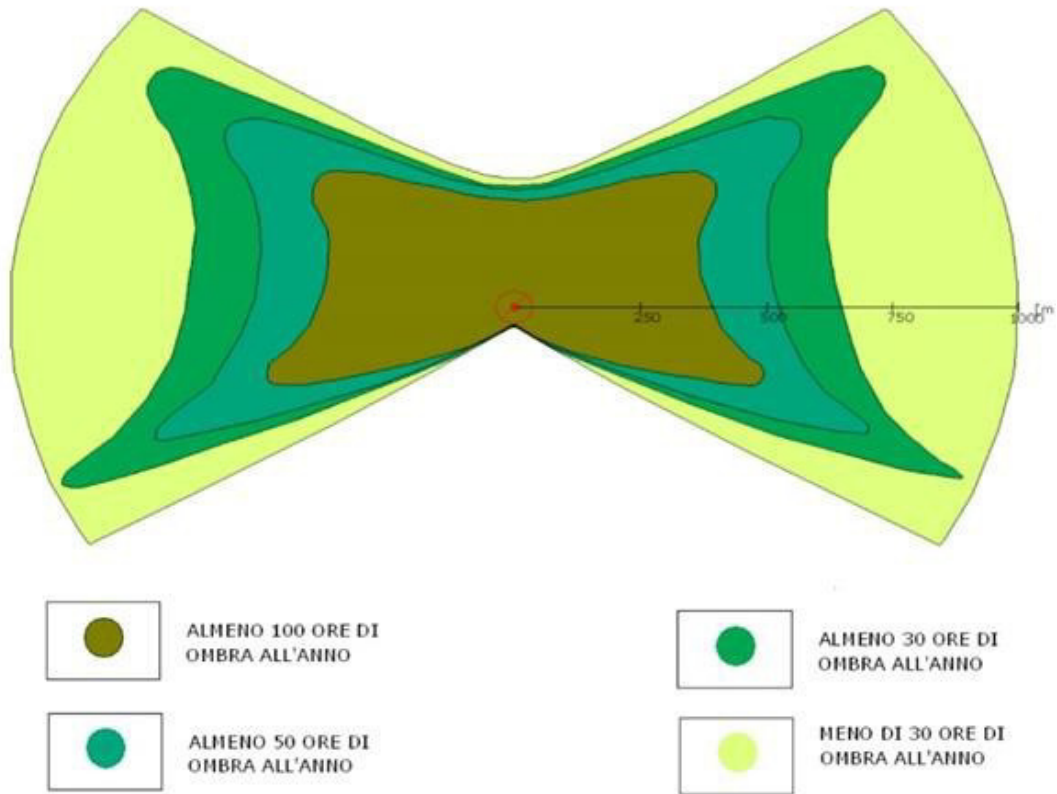


Figura 2 – Evoluzione annuale dell'ombra di una turbina

3. INDIVIDUAZIONE DEI RECETTORI ED IPOTESI DI CALCOLO

Ai fini della previsione degli impatti indotti dal parco eolico di progetto sono stati individuati i “recettori sensibili”. Nella tabella a seguire sono riportati i riferimenti geografici (coordinate) di tutti i fabbricati presenti in buffer di 700m da ogni aerogeneratore di progetto. I fabbricati che possono essere considerati recettori sono raggruppati e riportati con un pallino giallo.

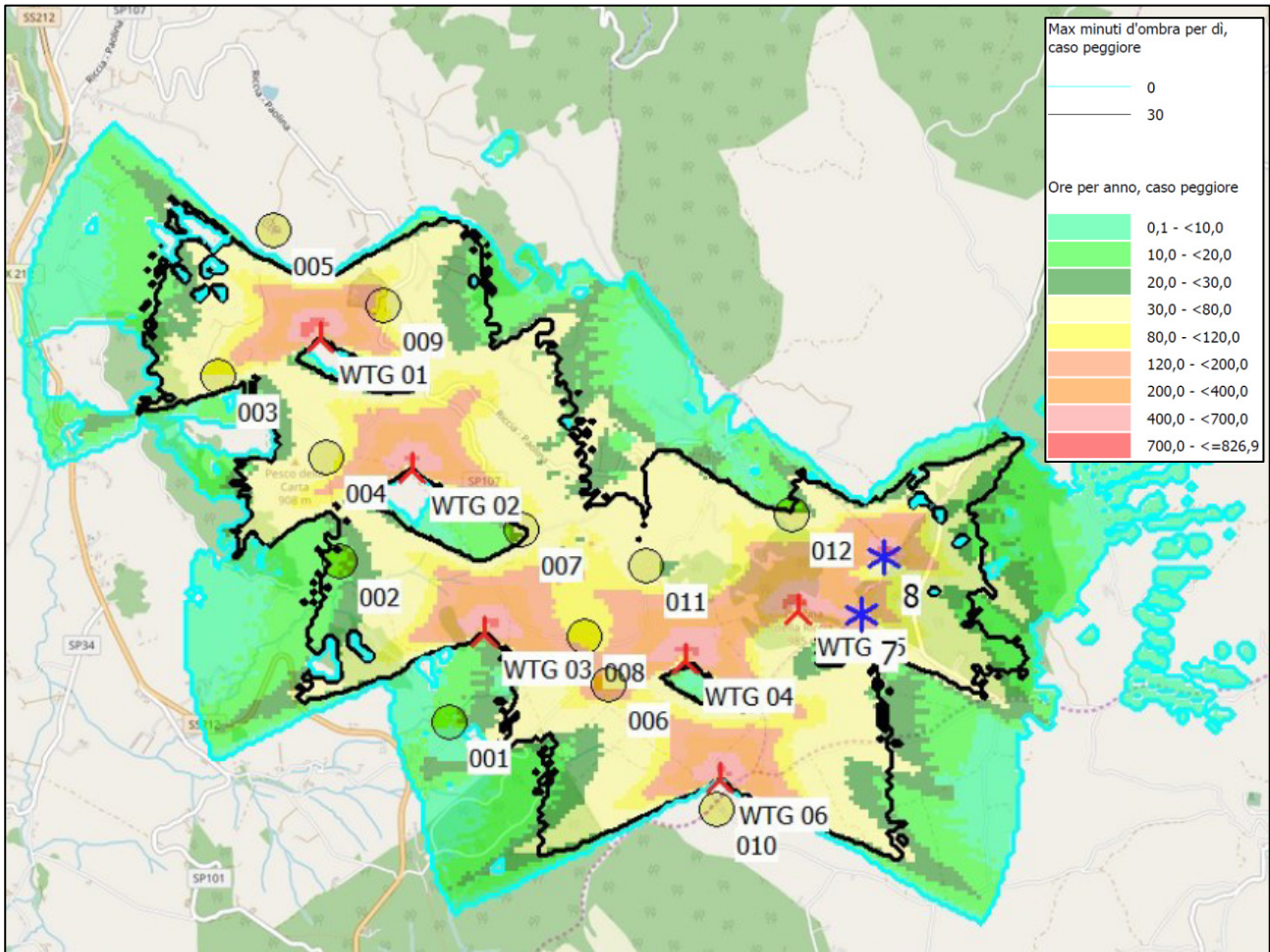


Figura 3 - Evoluzione annuale ombra con recettori convenzionali, WTG di progetto e due WTG esistenti (7 – 8)

COONVENZIONALI	SINGOLI RECETTORI
Recettore 001	53-54-55-56-5758-59-60-125-126-127-128-129-130-131-132
Recettore 002	24-25-26-27-28-29-30-31-32-33-34-104-105
Recettore 003	6-7-8-9-10-11-81-82-83-84-85-86-87-88
Recettore 004	18-19-89-96-97-98-99-100-101-102-20-21-22

Recettore 005	1-2-3-4-5-78-79-80
Recettore 006	61-62-63-133-134-135-136-137
Recettore 007	35-36-37-38-39-40-41-42-43-44-45-46-47-48-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122
Recettore 008	49-50-51-52-123-124
Recettore 009	12-13-14-15-16-17-90-91-92-93-94-95-20-21-22-100-101-102-103-23
Recettore 010	73-147
Recettore 011	64-65-66-67-68-69-70-71—72-138-139-140-141-142-143-144-145-146
Recettore 012	74-75-76-77-148-149-150-151-152

Recettori "convenzionali"

ID	CATEGORIA	LAT	LONG
1	A4	4591931,144	487996,814
2	A4	4591919,136	488022,032
3	A4	4591906,527	488026,475
4	A2	4591886,773	488052,113
5	A2	4591884,407	488074,564
6	A4	4591613,516	487931,809
7	A3	4590985,273	487689,337
8	A3	4590967,957	487686,249
9	A3	4590968,152	487690,332



10	A4	4591147,181	487898,616
11	A4	4591141,709	487917,478
12	A4	4591417,621	488726,279
13	A4	4591376,375	488737,608
14	A3	4591450,885	488794,853
15	A4	4591516,107	488930,161
16	A3	4591292,031	488962,403
17	A4	4591263,211	488952,677
18	A3	4590761,114	488672,042
19	A3	4590452,356	488383,446
20	A4	4590801,957	489419,628
21	A4	4590851,287	489458,876
22	A4	4590860,052	489487,939
23	A4	4590321,633	489334,761
24	A4	4589905,38	488466,048
25	A4	4589877,061	488447,809
26	A4	4589834,462	488465,822
27	A4	4589832,39	488459,067
28	A4	4589824,104	488466,722
29	A4	4589793,483	488435,381
30	A4	4589815,459	488457,086



31	A4	4589792,493	488464,021
32	A3	4589784,567	488445,378
33	A4	4589772,138	488450,331
34	A4	4589748,992	488470,955
35	A4	4590106,338	489552,578
36	A4	4590088,01	489563,62
37	A4	4590083,011	489588,883
38	A4	4590060,586	489569,7
39	A4	4590054,642	489567,808
40	A4	4590042,213	489564,701
41	A4	4590058,529	489539,061
42	A4	4590035,338	489537,761
43	A4	4589984,883	489623,893
44	A4	4589968,013	489603,984
45	A4	4589896,025	489512,179
46	A4	4589870,936	489638,787
47	A4	4589784,003	489552,387
48	A4	4589781,512	489523,874
49	A4	4589332,621	489867,062
50	A4	4589316,169	490000,538
51	A7	4589313,51	490024,285



52	A4	4589277,279	490026,026
53	A3	4588886,937	488982,872
54	A4	4588823,213	489117,836
55	A4	4588812,617	489133,992
56	A4	4588810,513	489135,909
57	A4	4588806,38	489125,689
58	A4	4588718,27	489212,446
59	A4	4588709,102	489214,7
60	A4	4588669,35	489182,838
61	A3	4589043,273	490139,977
62	A3	4589060,313	490196,109
63	A4	4589048,39	490189,806
64	A4	4589733,16	490392,401
65	A4	4589734,932	490390,523
66	A4	4589750,187	490383,835
67	A4	4589773,332	490397,512
68	A4	4589828,464	490473,549
69	A4	4589809,55	490466,476
70	A3	4589927,236	490676,015
71	A4	4590004,942	490888,578
72	A3	4589657,419	490687,65



73	A3	4588231,018	490837,647
74	A3	4590220,101	491166,174
75	A4	4590137,928	491243,951
76	A3	4590095,658	491318,684
77	A4	4590047,865	491589,664

Tabella 2 - Singoli recettori categoria A

ID	CATEGORIA	LAT	LONG
78	D10	4591901,003	488016,028
79	D10	4591928,502	488030,198
80	D10	4591886,271	488000,714
81	D10	4591640,483	487956,046
82	D10	4591906,774	488543,885
83	D1	4591798,272	488539,2
84	D1	4591767,687	488561,159
85	D10	4590997,005	487692,159
86	D10	4590991,642	487688,987
87	D10	4590945,757	487682,557
88	D10	4590945,51	487691,294
89	D1	4590818,303	488258,595
90	D10	4591383,413	488735,709
91	D10	4591371,962	488738,959



92	D10	4591352,505	488723,253
93	D10	4591358,905	488762,869
94	D10	4591534,479	488942,229
95	D10	4591313,827	488986,36
96	D10	4590748,955	488656,551
97	D10	4590734,401	488681,735
98	D10	4590454,903	488336,73
99	D10	4590466,205	488377,556
100	D10	4590813,113	489445,267
101	D1	4590863,56	489471,413
102	D1	4590864,73	489496,361
103	D1	4590293,375	489324,612
104	D1	4589887,508	488440,334
105	D10	4589823,384	488442,225
106	D10	4590144,952	489527,821
107	D10	4590138,095	489518,616
108	D10	4590104,221	489568,214
109	D10	4590067,746	489566,052
110	D1	4590078,283	489585,235
111	D10	4590075,311	489582,804
112	D1	4590068,827	489597,259



113	D10	4590061,396	489592,125
114	D10	4590048,157	489583,884
115	D10	4590003,424	489598,209
116	D10	4589976,068	489623,437
117	D10	4589956,538	489648,552
118	D10	4589805,432	489546,535
119	D10	4589794,641	489544,408
120	D10	4589800,569	489560,973
121	D10	4589791,45	489602,312
122	D10	4589777,924	489547,219
123	D10	4589283,76	489880,056
124	D10	4589289,003	489891,455
125	D10	4588872,196	489084,471
126	D10	4588757,033	489167,733
127	D10	4588738,359	489175,398
128	D10	4588736,781	489171,866
129	D10	4588729,83	489181,222
130	D10	4588723,856	489185,167
131	D10	4588695,3	489183,402
132	D10	4588679,219	489201,099
133	D1	4588973,043	490139,833



134	D10	4589071,11	490140,81
135	D10	4589053,976	490180,187
136	D10	4589056,982	490182,141
137	D10	4589087,341	490177,031
138	D1	4589716,02	490330,481
139	D1	4589719,176	490337,469
140	D1	4589728,043	490351,597
141	D10	4589707,077	490410,437
142	D10	4589838,96	490481,075
143	D10	4589838,134	490474,312
144	D10	4589832,422	490457,779
145	D1	4589932,518	490699,903
146	D10	4589991,583	490867,555
147	D10	4588621,337	490189,637
148	D10	4590205,053	491180,433
149	D10	4590171,801	491240,174
150	D10	4590102,703	491343,595
151	D10	4590037,326	491565,542
152	D10	4590031,351	491594,962

Tabella 3 - Singoli recettori categoria D

Ai fini della rappresentazione grafica delle mappe, visto il numero di recettori e la loro posizione, si è deciso di considerare dei recettori “convenzionali” che racchiudessero per macroaree i singoli recettori per poterli meglio rappresentare; in totale i recettori d’ombra risultano 152.

Per quanto riguarda l’effetto cumulo sono stati considerati gli aerogeneratori esistenti presenti in un buffer di 700m dagli aerogeneratori di progetto. Si riporta di seguito il quadro di riferimento di tutti gli aerogeneratori considerati. È stata inoltre eseguita una valutazione che tiene in conto dei soli nostri aerogeneratori.

Di seguito si elencano gli Aerogeneratori considerati:

- WTG 01 VESTAS V150-6.0 6000 150.0 m hub: 125,0 m (TOT: 200,0 m) (**progetto**)
- WTG 02 VESTAS V150-6.0 6000 150.0 m hub: 125,0 m (TOT: 200,0 m) (**progetto**)
- WTG 03 VESTAS V150-6.0 6000 150.0 m hub: 125,0 m (TOT: 200,0 m) (**progetto**)
- WTG 04 VESTAS V150-6.0 6000 150.0 m hub: 125,0 m (TOT: 200,0 m) (**progetto**)
- WTG 05 VESTAS V150-6.0 6000 150.0 m hub: 125,0 m (TOT: 200,0 m) (**progetto**)
- WTG 06 VESTAS V150-6.0 6000 150.0 m hub: 125,0 m (TOT: 200,0 m) (**progetto**)

- 1 aerogeneratore 1 MW Drot:55.0 m hub: 60,0 m (**esistenti**);
- Minieolico Drot:30.0 m hub: 40,0 m (**esistenti**).

La valutazione tecnica è stata eseguita con l’ausilio di un software di simulazione specifico per la progettazione degli impianti eolici WIND PRO®, costituito da un insieme di moduli di elaborazione orientati alla simulazione di una moltitudine di aspetti che caratterizzano le diverse fasi progettuali. Il modulo SHADOW è quello specifico per la valutazione dell’evoluzione dell’ombra e del Flickering.

I dati di input sono:

- DTM – Digital Terrain Model.
- Modello delle turbine e loro caratteristiche dimensionali;
- Definizione di aree sensibili o recettori;
- Definizione di dati meteorologici storici di una stazione di riferimento per il calcolo probabilistico delle ore di soleggiamento.

Allo scopo di analizzare l’effetto “flickering” indotto dagli aerogeneratori (di progetto ed esistenti) sui recettori, rappresentati dai nuclei abitativi presenti in un intorno di 1000 metri dalle turbine.

In relazione a ciò, si fa presente che già in fase di scelta delle aree sulle quali ubicare l’impianto si è cercato di allontanarsi il più possibile dall’area urbana e dalle masserie adibite ad abitazione.

Nello studio viene comunque calcolato un “worst case” ovvero la condizione più sfavorevole possibile, in quanto si considera che:

- Il sole splende per tutta la giornata, dall’alba al tramonto (cioè si è sempre in assenza di copertura nuvolosa);
- Il piano di rotazione delle pale è sempre perpendicolare alla direttrice sole-aerogeneratore (l’aerogeneratore “insegue” il sole);

- Gli aerogeneratori sono sempre operativi.

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

Il numero di ore di ombreggiamento ricavato è ampiamente cautelativo. Di conseguenza i risultati ai quali si perverrà fanno riferimento al peggior caso possibile ("worst case").

Si riporta di seguito le tabelle dei risultati con riferimento alle ore equivalenti su ciascun recettore ed i tabulati dei calcoli.

Sono state eseguite due analisi:

- Analisi 1: solo aerogeneratori di progetto
- Analisi 2: solo aerogeneratori di progetto + aerogeneratori in esercizio in prossimità dei recettori analizzati;



4. ANALISI DEI RISULTATI – WTG DI PROGETTO

Si riportano di seguito i risultati dei calcoli in forma tabellare per ciascun recettore d'ombra in considerazione dell'effetto dato dalle WTG di progetto.

Ombra, caso peggiore				Ombra, caso peggiore				Ombra, caso peggiore			
n.	Ore d'ombra per anno	Giorni con ombra per anno	Massima durata dell'ombra per giorno	n.	Ore d'ombra per anno	Giorni con ombra per anno	Massima durata dell'ombra per giorno	n.	Ore d'ombra per anno	Giorni con ombra per anno	Massima durata dell'ombra per giorno
	[ore/anno]	[giorni/anno]	[ore/giorno]		[ore/anno]	[giorni/anno]	[ore/giorno]		[ore/anno]	[giorni/anno]	[ore/giorno]
1	0:00	0	0:00	62	232:10	198	2:05	124	135:05	190	1:26
2	0:00	0	0:00	63	231:01	198	2:02	125	15:33	58	0:22
3	0:00	0	0:00	64	42:32	127	0:34	126	19:17	67	0:24
4	0:00	0	0:00	65	42:19	128	0:34	127	20:05	70	0:24
5	0:00	0	0:00	66	41:46	127	0:33	128	20:02	69	0:24
6	79:58	87	1:05	67	41:41	123	0:34	129	6:33	26	0:20
7	85:35	132	0:54	68	42:06	112	0:43	130	6:33	25	0:20
8	77:42	125	0:53	69	41:55	112	0:41	131	6:35	25	0:20
9	77:30	123	0:54	70	47:09	87	1:05	132	6:52	26	0:20
10	190:16	220	1:19	71	70:42	122	0:56	133	177:25	191	1:46
11	171:48	148	1:22	72	47:51	89	0:50	134	232:03	214	2:00
12	90:01	97	1:12	73	0:00	0	0:00	135	233:47	202	2:03
13	87:10	94	1:12	74	0:00	0	0:00	136	232:59	202	2:03
14	66:41	83	1:02	75	9:06	26	0:27	137	231:51	210	2:08
15	44:53	70	0:50	76	18:53	38	0:38	138	52:56	166	0:34
16	44:08	67	0:51	77	27:19	39	0:58	139	48:35	157	0:34
17	47:14	70	0:52	78	0:00	0	0:00	140	43:35	136	0:33
18	112:05	99	1:20	79	0:00	0	0:00	141	35:57	83	0:35
19	67:11	82	1:03	80	0:00	0	0:00	142	42:26	109	0:45
20	91:19	167	0:51	81	62:43	74	1:02	143	42:09	111	0:43
21	77:10	156	0:47	82	0:00	0	0:00	144	41:56	113	0:40
22	68:38	141	0:45	83	0:00	0	0:00	145	48:04	86	1:05
23	164:30	182	1:17	84	0:00	0	0:00	146	60:05	92	1:00
24	20:25	48	0:33	85	90:35	137	0:54	147	36:53	60	0:47
25	19:12	45	0:33	86	88:08	135	0:54	148	0:00	0	0:00
26	19:31	46	0:33	87	66:43	113	0:52	149	0:00	0	0:00
27	19:19	45	0:33	88	65:45	113	0:52	150	11:59	30	0:31
28	19:28	45	0:33	89	61:10	106	0:46	151	34:25	44	1:04
29	18:22	44	0:33	90	87:25	94	1:12	152	42:09	49	1:10
30	19:12	45	0:33	91	86:59	93	1:12				
31	19:14	44	0:33	92	95:11	98	1:15				
32	18:48	44	0:33	93	80:01	90	1:09				
33	18:55	44	0:33	94	43:34	68	0:49				
34	19:32	44	0:34	95	40:22	63	0:49				
35	73:43	135	0:50	96	121:12	106	1:19				
36	67:38	131	0:47	97	134:32	111	1:23				
37	74:50	157	0:47	98	57:16	77	0:58				
38	61:10	147	0:41	99	64:57	82	1:02				
39	57:28	144	0:38	100	85:38	167	0:49				
40	49:38	137	0:32	101	72:58	147	0:46				
41	46:47	115	0:35	102	66:22	137	0:45				
42	31:32	98	0:26	103	158:09	172	1:19				
43	34:32	106	0:28	104	19:10	47	0:32				
44	29:28	92	0:28	105	18:41	44	0:33				
45	20:19	64	0:27	106	85:07	142	0:54				
46	73:33	124	0:55	107	81:51	140	0:54				
47	98:33	140	1:12	108	74:54	137	0:50				
48	91:56	139	1:12	109	58:21	125	0:42				
49	132:12	176	1:30	110	72:21	155	0:46				
50	106:20	142	1:16	111	70:47	155	0:46				
51	103:37	128	1:14	112	70:11	155	0:44				
52	113:16	153	1:16	113	65:58	151	0:43				
53	8:17	30	0:21	114	57:52	144	0:38				
54	16:44	60	0:23	115	36:55	119	0:28				
55	17:27	63	0:23	116	35:44	108	0:28				
56	17:26	62	0:23	117	49:29	110	0:42				
57	17:13	63	0:23	118	83:33	138	1:07				
58	0:00	0	0:00	119	89:14	139	1:09				
59	0:00	0	0:00	120	89:54	138	1:08				
60	6:42	26	0:20	121	102:28	137	1:10				
61	232:57	210	1:55	122	101:24	142	1:13				
				123	141:36	199	1:26				

Dalle analisi condotte i recettori d'ombra maggiormente impattati risultano i seguenti: 10, 11, 18, 23, 49, 50, 51, 52, 61, 62, 63, 96, 97, 103, 121, 122, 123, 124, 133, 134, 135, 136, 137.

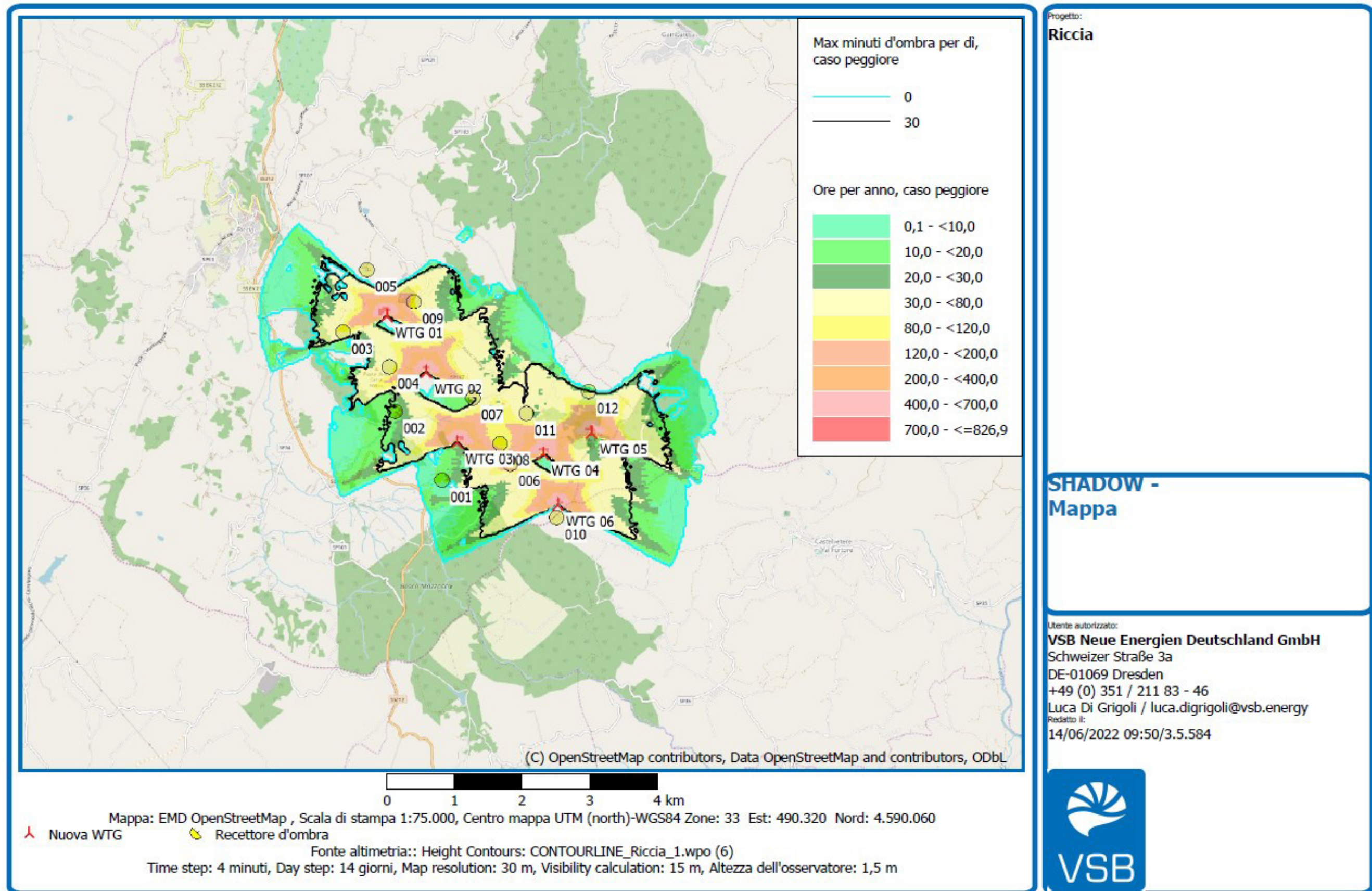


Figura 4 - Mappa Shadow Flickering WTG di progetto

5. ANALISI DEI RISULTATI – EFFETTO CUMULO

Si riportano di seguito i risultati dei calcoli in forma tabellare per ciascun recettore d'ombra in considerazione dell'effetto cumulo dato dalle WTG di progetto più due WTG in esercizio (7 – 8).

Ombra, caso peggiore			Ombra, caso peggiore			Ombra, caso peggiore					
n.	Ore d'ombra per anno [ore/anno]	Giorni con ombra per anno [giorni/anno]	Massima durata dell'ombra per giorno [ore/giorno]	n.	Ore d'ombra per anno [ore/anno]	Giorni con ombra per anno [giorni/anno]	Massima durata dell'ombra per giorno [ore/giorno]	n.	Ore d'ombra per anno [ore/anno]	Giorni con ombra per anno [giorni/anno]	Massima durata dell'ombra per giorno [ore/giorno]
1	0:00	0	0:00	52	113:26	153	1:16	114	58:23	144	0:38
2	0:00	0	0:00	53	8:17	30	0:21	115	36:55	119	0:28
3	0:00	0	0:00	54	16:44	60	0:23	116	35:44	108	0:28
4	0:00	0	0:00	55	17:27	63	0:23	117	49:29	110	0:42
5	0:00	0	0:00	56	17:26	62	0:23	118	83:33	138	1:07
6	79:58	87	1:05	57	17:13	63	0:23	119	89:14	139	1:09
7	85:35	132	0:54	58	0:00	0	0:00	120	89:54	138	1:08
8	77:42	125	0:53	59	0:00	0	0:00	121	102:28	137	1:10
9	77:30	123	0:54	60	6:42	26	0:20	122	101:24	142	1:13
10	190:16	220	1:19	61	233:14	210	1:55	123	141:36	199	1:26
11	171:48	148	1:22	62	232:36	198	2:05	124	135:05	190	1:26
12	90:01	97	1:12	63	231:27	198	2:02	125	15:33	58	0:22
13	87:10	94	1:12	64	43:55	127	0:40	126	19:17	67	0:24
14	66:41	83	1:02	65	43:41	128	0:40	127	20:05	70	0:24
15	44:53	70	0:50	66	43:11	127	0:40	128	20:02	69	0:24
16	44:08	67	0:51	67	43:02	123	0:41	129	6:33	26	0:20
17	47:14	70	0:52	68	47:12	131	0:45	130	6:33	25	0:20
18	112:05	99	1:20	69	43:28	112	0:44	131	6:35	25	0:20
19	67:11	82	1:03	70	51:41	108	1:05	132	6:52	26	0:20
20	91:19	167	0:51	71	77:08	147	0:56	133	177:39	198	1:46
21	77:10	156	0:47	72	53:01	111	0:50	134	232:21	214	2:00
22	68:38	141	0:45	73	0:00	0	0:00	135	234:10	202	2:03
23	164:30	182	1:17	74	11:18	35	0:25	136	233:24	202	2:03
24	20:25	48	0:33	75	22:58	64	0:28	137	232:14	210	2:08
25	19:12	45	0:33	76	36:05	80	0:38	138	54:12	166	0:37
26	19:31	46	0:33	77	83:42	123	0:58	139	49:55	157	0:38
27	19:19	45	0:33	78	0:00	0	0:00	140	44:53	136	0:38
28	19:28	45	0:33	79	0:00	0	0:00	141	37:23	83	0:40
29	18:22	44	0:33	80	0:00	0	0:00	142	47:31	127	0:45
30	19:12	45	0:33	81	62:43	74	1:02	143	47:14	129	0:45
31	19:14	44	0:33	82	0:00	0	0:00	144	43:27	113	0:43
32	18:48	44	0:33	83	0:00	0	0:00	145	52:45	107	1:05
33	18:55	44	0:33	84	0:00	0	0:00	146	66:17	116	1:00
34	19:32	44	0:34	85	90:35	137	0:54	147	39:08	95	0:47
35	74:15	143	0:50	86	88:08	135	0:54	148	11:48	36	0:26
36	68:12	138	0:47	87	66:43	113	0:52	149	13:42	39	0:27
37	75:24	157	0:47	88	65:45	113	0:52	150	30:27	74	0:33
38	61:44	147	0:41	89	61:10	106	0:46	151	81:55	117	1:04
39	58:00	144	0:38	90	87:25	94	1:12	152	98:16	129	1:10
40	50:13	137	0:32	91	86:59	93	1:12				
41	47:18	122	0:35	92	95:11	98	1:15				
42	32:04	105	0:26	93	80:01	90	1:09				
43	34:32	106	0:28	94	43:34	68	0:49				
44	29:28	92	0:28	95	40:22	63	0:49				
45	20:19	64	0:27	96	121:12	106	1:19				
46	73:33	124	0:55	97	134:32	111	1:23				
47	98:33	140	1:12	98	57:16	77	0:58				
48	91:56	139	1:12	99	64:57	82	1:02				
49	132:16	176	1:30	100	85:38	167	0:49				
50	106:30	142	1:16	101	72:58	147	0:46				
51	103:49	128	1:14	102	66:22	137	0:45				
				103	158:09	172	1:19				
				104	19:10	47	0:32				
				105	18:41	44	0:33				
				106	85:41	149	0:54				
				107	82:24	148	0:54				
				108	75:27	145	0:50				
				109	58:54	132	0:42				
				110	72:53	155	0:46				
				111	71:18	155	0:46				
				112	70:45	155	0:44				
				113	66:32	151	0:43				

Dalle analisi condotte i recettori d'ombra maggiormente impattati risultano: 10,11,18, 23, 49, 50, 51, 52, 61, 62, 63, 96, 97, 103, 121, 122, 123, 124, 133, 134, 135, 136, 137.

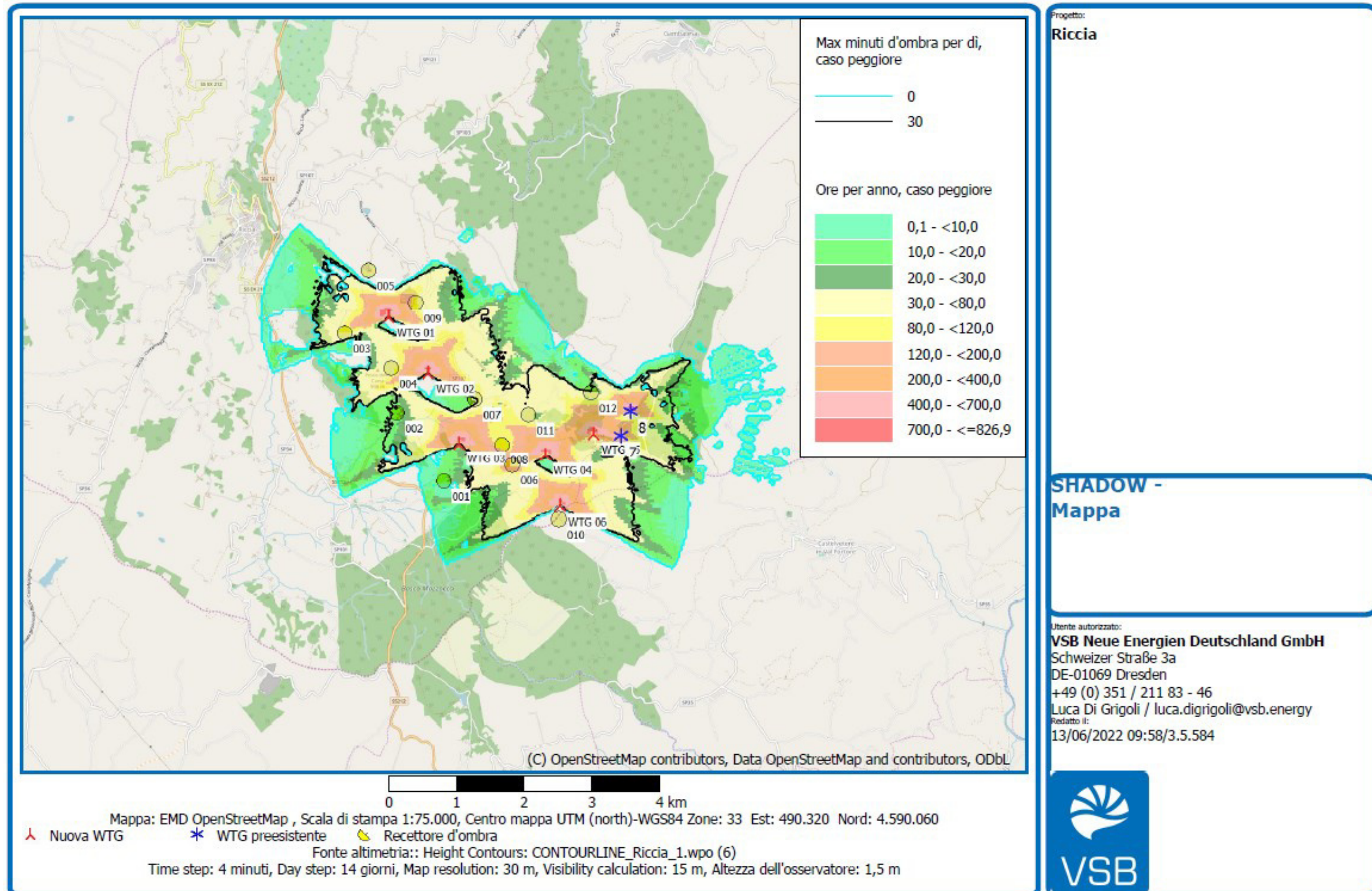


Figura 5 - Mappa Shadow Flickering WTG di Progetto e WTG preesistenti

6. CONCLUSIONI

In conclusione, si può asseverare che, nonostante l'alto numero di recettori d'ombra, il contesto risulta essere di carattere prevalentemente agricolo dell'area e solo la metà dei recettori risulta di categoria A; tra questi solo alcuni ricadono in aree in dove l'ombreggiamento supera le 200 ore/annue. Il resto dei recettori risulta appartenere alla categoria D, nello specifico fabbricati ad uso esclusivamente agricolo e non abitativo.

A quanto detto va rimarcato il grado di cautela utilizzato per la simulazione che non tiene conto di tutte le possibili fonti di attenuazione dell'effetto cui ogni recettore è (o può essere) soggetto, quali presenza di alberi, ostacoli, siepi e quant'altro possa attenuare il fenomeno dell'evoluzione giornaliera dell'ombra.

Per ulteriori dettagli si allegano di seguito i tabulati di calcolo ottenuti dalle elaborazioni effettuate tramite il software di simulazione specifico per la progettazione degli impianti eolici WIND PRO®.

7. ALLEGATO – TABULATI DI CALCOLO





SHADOW - Risultato principale

Assunzioni sui calcoli d'ombra

Distanza massima di influenza
Calcola solo quando oltre il 20% del sole è coperto dalla pala
Consultare la tabella delle WTG

Altezza minima del sole sull'orizzonte 3 °
Passo giornaliero del calcolo 1 giorni
Passo temporale del calcolo 1 minuti
I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

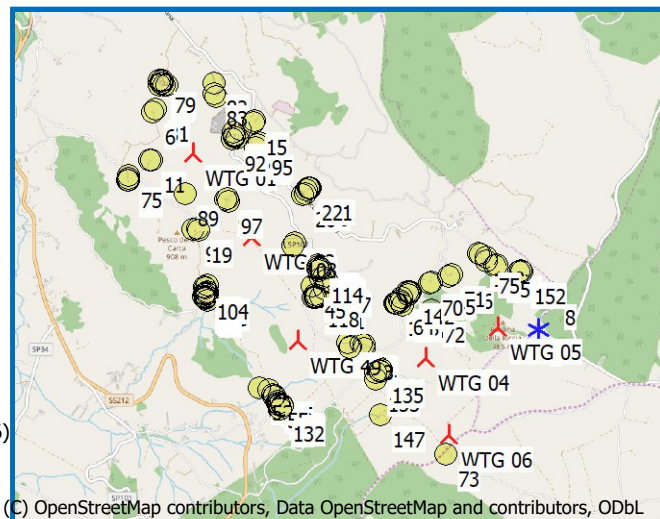
- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

Per evitare di considerare l' ombreggiamento da WTG in realtà non direttamente visibili, prima del calcolo dell' ombra viene eseguito un calcolo ZVI. Quest' ultimo si basa sulle seguenti assunzioni.

Curve altimetriche usate: Height Contours: CONTOURLINE_Riccia_1.wpo (6)
Ostacoli usati:

Risoluzione del grigliato: 1,0 m

Tutte le coordinate sono in
UTM (north)-WGS84 Zona: 33



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL
Scala 1:75.000
▲ Nuova WTG * WTG preesistente ● Recettore d'ombra

WTG

	Easting	Northing	Z	Dati/Descrizione	Tipo di WTG			Potenza nominale	Diametro rotore	Altezza mozzo	Dati di ombra	
					Valida	Produttore	Tipo generatore				Distanza di calcolo	giri/min
7	491.761	4.589.467	955,0	1000 55.0 !-! hub: ... No			-1.000	1.000	55,0	60,0	2.500	0,0
8	491.903	4.589.823	945,6	NORDEX N90 2300 9... Si	NORDEX		N90-2.300	2.300	90,0	80,0	1.439	16,9
WTG 01	488.325	4.591.208	852,9	VESTAS V150-6.0 60... Si	VESTAS		V150-6.0-6.000	6.000	150,0	125,0	1.900	0,0
WTG 02	488.908	4.590.382	862,7	VESTAS V150-6.0 60... Si	VESTAS		V150-6.0-6.000	6.000	150,0	125,0	1.900	0,0
WTG 03	489.361	4.589.349	900,0	VESTAS V150-6.0 60... Si	VESTAS		V150-6.0-6.000	6.000	150,0	125,0	1.900	0,0
WTG 04	490.638	4.589.178	925,0	VESTAS V150-6.0 60... Si	VESTAS		V150-6.0-6.000	6.000	150,0	125,0	1.900	0,0
WTG 05	491.360	4.589.480	980,4	VESTAS V150-6.0 60... Si	VESTAS		V150-6.0-6.000	6.000	150,0	125,0	1.900	0,0
WTG 06	490.859	4.588.416	982,7	VESTAS V150-6.0 60... Si	VESTAS		V150-6.0-6.000	6.000	150,0	125,0	1.900	0,0

Recettore d'ombra-Immissione dati

n.	Easting	Northing	Z	Ampiezza	Height	Altezza s.l.t.	Inclinazione della finestra	Modo orientazione	Altezza osservatore
	[m]	[m]	[m]	[m]	[m]	[m]	[°]		[m]
1	487.997	4.591.931	858,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
2	488.022	4.591.919	856,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
3	488.026	4.591.907	856,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
4	488.052	4.591.887	853,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
5	488.075	4.591.884	850,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
6	487.932	4.591.614	868,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
7	487.689	4.590.985	824,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
8	487.686	4.590.968	823,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
9	487.690	4.590.968	824,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
10	487.899	4.591.147	854,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
11	487.917	4.591.142	856,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
12	488.726	4.591.418	830,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
13	488.738	4.591.376	825,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
14	488.795	4.591.451	813,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
15	488.930	4.591.516	817,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
16	488.962	4.591.292	787,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
17	488.953	4.591.263	785,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
18	488.672	4.590.761	836,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
19	488.383	4.590.452	865,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
20	489.420	4.590.802	780,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
21	489.459	4.590.851	775,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
22	489.488	4.590.860	769,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1

continua alla pagina successiva...

SHADOW - Risultato principale

...continua dalla pagina precedente

n.	Easting	Northing	Z	Ampiezza	Height	Altezza	Inclinazione della finestra	Modo orientazione	Altezza osservatore
			[m]	[m]	[m]	[m]	[°]		[m]
23	489.335	4.590.322	831,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
24	488.466	4.589.905	778,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
25	488.448	4.589.877	775,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
26	488.466	4.589.834	768,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
27	488.459	4.589.832	769,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
28	488.467	4.589.824	767,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
29	488.435	4.589.793	765,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
30	488.457	4.589.815	767,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
31	488.464	4.589.792	763,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
32	488.445	4.589.785	764,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
33	488.450	4.589.772	762,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
34	488.471	4.589.749	757,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
35	489.553	4.590.106	834,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
36	489.564	4.590.088	835,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
37	489.589	4.590.083	831,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
38	489.570	4.590.061	835,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
39	489.568	4.590.055	835,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
40	489.565	4.590.042	836,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
41	489.539	4.590.059	839,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
42	489.538	4.590.035	840,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
43	489.624	4.589.985	830,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
44	489.604	4.589.968	833,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
45	489.512	4.589.896	850,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
46	489.639	4.589.871	845,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
47	489.552	4.589.784	860,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
48	489.524	4.589.782	863,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
49	489.867	4.589.333	934,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
50	490.001	4.589.316	934,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
51	490.024	4.589.314	934,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
52	490.026	4.589.277	936,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
53	488.983	4.588.887	816,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
54	489.118	4.588.823	823,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
55	489.134	4.588.813	825,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
56	489.136	4.588.811	825,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
57	489.126	4.588.806	824,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
58	489.212	4.588.718	835,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
59	489.215	4.588.709	835,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
60	489.183	4.588.669	828,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
61	490.140	4.589.043	937,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
62	490.196	4.589.060	934,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
63	490.190	4.589.048	934,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
64	490.392	4.589.733	907,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
65	490.391	4.589.735	907,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
66	490.384	4.589.750	909,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
67	490.398	4.589.773	906,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
68	490.474	4.589.828	895,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
69	490.466	4.589.810	897,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
70	490.676	4.589.927	863,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
71	490.889	4.590.005	856,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
72	490.688	4.589.657	898,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
73	490.838	4.588.231	973,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
74	491.166	4.590.220	855,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
75	491.244	4.590.138	866,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
76	491.319	4.590.096	872,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
77	491.590	4.590.048	917,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
78	488.016	4.591.901	858,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
79	488.030	4.591.929	855,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
80	488.001	4.591.886	860,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
81	487.956	4.591.640	865,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
82	488.544	4.591.907	825,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
83	488.539	4.591.798	833,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
84	488.561	4.591.768	834,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
85	487.692	4.590.997	825,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1

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SHADOW - Risultato principale

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n.	Easting	Northing	Z	Ampiezza	Height	Altezza	Inclinazione della finestra	Modo orientazione	Altezza osservatore
			[m]	[m]	[m]	[m]	[°]		[m]
86	487.689	4.590.992	825,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
87	487.683	4.590.946	823,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
88	487.691	4.590.946	824,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
89	488.259	4.590.818	879,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
90	488.736	4.591.383	826,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
91	488.739	4.591.372	824,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
92	488.723	4.591.353	828,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
93	488.763	4.591.359	819,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
94	488.942	4.591.534	818,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
95	488.986	4.591.314	788,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
96	488.657	4.590.749	837,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
97	488.682	4.590.734	834,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
98	488.337	4.590.455	870,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
99	488.378	4.590.466	865,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
100	489.445	4.590.813	777,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
101	489.471	4.590.864	771,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
102	489.496	4.590.865	767,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
103	489.325	4.590.293	835,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
104	488.440	4.589.888	777,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
105	488.442	4.589.823	769,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
106	489.528	4.590.145	830,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
107	489.519	4.590.138	832,4	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
108	489.568	4.590.104	833,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
109	489.566	4.590.068	835,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
110	489.585	4.590.078	832,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
111	489.583	4.590.075	833,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
112	489.597	4.590.069	830,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
113	489.592	4.590.061	831,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
114	489.584	4.590.048	833,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
115	489.598	4.590.003	833,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
116	489.623	4.589.976	830,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
117	489.649	4.589.957	830,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
118	489.547	4.589.805	858,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
119	489.544	4.589.795	860,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
120	489.561	4.589.801	857,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
121	489.602	4.589.791	858,7	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
122	489.547	4.589.778	860,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
123	489.880	4.589.284	938,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
124	489.891	4.589.289	938,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
125	489.084	4.588.872	822,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
126	489.168	4.588.757	832,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
127	489.175	4.588.738	831,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
128	489.172	4.588.737	830,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
129	489.181	4.588.730	830,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
130	489.185	4.588.724	830,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
131	489.183	4.588.695	828,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
132	489.201	4.588.679	832,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
133	490.140	4.588.973	938,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
134	490.141	4.589.071	938,1	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
135	490.180	4.589.054	935,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
136	490.182	4.589.057	935,2	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
137	490.177	4.589.087	935,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
138	490.330	4.589.716	910,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
139	490.337	4.589.719	910,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
140	490.352	4.589.728	910,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
141	490.410	4.589.707	903,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
142	490.481	4.589.839	892,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
143	490.474	4.589.838	893,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
144	490.458	4.589.832	895,9	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
145	490.700	4.589.933	859,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
146	490.868	4.589.992	854,3	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
147	490.190	4.588.621	921,8	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
148	491.180	4.590.205	860,0	0,1	0,1	2,0	90,0	"Modalità serra"	2,1

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Progetto:

Riccia

Utente autorizzato:

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SHADOW - Risultato principale

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n.	Easting	Northing	Z	Ampiezza	Height	Altezza s.l.t.	Inclinazione della finestra	Modo orientazione	Altezza osservatore
			[m]	[m]	[m]	[m]	[°]		[m]
149	491.240	4.590.172	864,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
150	491.344	4.590.103	875,5	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
151	491.566	4.590.037	912,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1
152	491.595	4.590.031	916,6	0,1	0,1	2,0	90,0	"Modalità serra"	2,1

Risultati dei calcoli

Recettore d'ombra

Ombra, caso peggiore

n. Ore d'ombra per anno Giorni con ombra per anno Massima durata dell'ombra per giorno

	[ore/anno]	[giorni/anno]	[ore/giorno]
1	0:00	0	0:00
2	0:00	0	0:00
3	0:00	0	0:00
4	0:00	0	0:00
5	0:00	0	0:00
6	79:58	87	1:05
7	85:35	132	0:54
8	77:42	125	0:53
9	77:30	123	0:54
10	190:16	220	1:19
11	171:48	148	1:22
12	90:01	97	1:12
13	87:10	94	1:12
14	66:41	83	1:02
15	44:53	70	0:50
16	44:08	67	0:51
17	47:14	70	0:52
18	112:05	99	1:20
19	67:11	82	1:03
20	91:19	167	0:51
21	77:10	156	0:47
22	68:38	141	0:45
23	164:30	182	1:17
24	20:25	48	0:33
25	19:12	45	0:33
26	19:31	46	0:33
27	19:19	45	0:33
28	19:28	45	0:33
29	18:22	44	0:33
30	19:12	45	0:33
31	19:14	44	0:33
32	18:48	44	0:33
33	18:55	44	0:33
34	19:32	44	0:34
35	74:15	143	0:50
36	68:12	138	0:47
37	75:24	157	0:47
38	61:44	147	0:41
39	58:00	144	0:38
40	50:13	137	0:32
41	47:18	122	0:35
42	32:04	105	0:26
43	34:32	106	0:28
44	29:28	92	0:28
45	20:19	64	0:27
46	73:33	124	0:55
47	98:33	140	1:12
48	91:56	139	1:12
49	132:16	176	1:30
50	106:30	142	1:16
51	103:49	128	1:14

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SHADOW - Risultato principale

...continua dalla pagina precedente

Ombra, caso peggiore

n. Ore d'ombra per anno Giorni con ombra per anno Massima durata dell'ombra per giorno

	[ore/anno]	[giorni/anno]	[ore/giorno]
52	113:26	153	1:16
53	8:17	30	0:21
54	16:44	60	0:23
55	17:27	63	0:23
56	17:26	62	0:23
57	17:13	63	0:23
58	0:00	0	0:00
59	0:00	0	0:00
60	6:42	26	0:20
61	233:14	210	1:55
62	232:36	198	2:05
63	231:27	198	2:02
64	43:55	127	0:40
65	43:41	128	0:40
66	43:11	127	0:40
67	43:02	123	0:41
68	47:12	131	0:45
69	43:28	112	0:44
70	51:41	108	1:05
71	77:08	147	0:56
72	53:01	111	0:50
73	0:00	0	0:00
74	11:18	35	0:25
75	22:58	64	0:28
76	36:05	80	0:38
77	83:42	123	0:58
78	0:00	0	0:00
79	0:00	0	0:00
80	0:00	0	0:00
81	62:43	74	1:02
82	0:00	0	0:00
83	0:00	0	0:00
84	0:00	0	0:00
85	90:35	137	0:54
86	88:08	135	0:54
87	66:43	113	0:52
88	65:45	113	0:52
89	61:10	106	0:46
90	87:25	94	1:12
91	86:59	93	1:12
92	95:11	98	1:15
93	80:01	90	1:09
94	43:34	68	0:49
95	40:22	63	0:49
96	121:12	106	1:19
97	134:32	111	1:23
98	57:16	77	0:58
99	64:57	82	1:02
100	85:38	167	0:49
101	72:58	147	0:46
102	66:22	137	0:45
103	158:09	172	1:19
104	19:10	47	0:32
105	18:41	44	0:33
106	85:41	149	0:54
107	82:24	148	0:54
108	75:27	145	0:50
109	58:54	132	0:42
110	72:53	155	0:46
111	71:18	155	0:46
112	70:45	155	0:44
113	66:32	151	0:43

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SHADOW - Risultato principale

...continua dalla pagina precedente

Ombra, caso peggiore

n.	Ore d'ombra per anno [ore/anno]	per anno	
		Giorni con ombra [giorni/anno]	Massima durata dell'ombra per giorno [ore/giorno]
114	58:23	144	0:38
115	36:55	119	0:28
116	35:44	108	0:28
117	49:29	110	0:42
118	83:33	138	1:07
119	89:14	139	1:09
120	89:54	138	1:08
121	102:28	137	1:10
122	101:24	142	1:13
123	141:36	199	1:26
124	135:05	190	1:26
125	15:33	58	0:22
126	19:17	67	0:24
127	20:05	70	0:24
128	20:02	69	0:24
129	6:33	26	0:20
130	6:33	25	0:20
131	6:35	25	0:20
132	6:52	26	0:20
133	177:39	198	1:46
134	232:21	214	2:00
135	234:10	202	2:03
136	233:24	202	2:03
137	232:14	210	2:08
138	54:12	166	0:37
139	49:55	157	0:38
140	44:53	136	0:38
141	37:23	83	0:40
142	47:31	127	0:45
143	47:14	129	0:45
144	43:27	113	0:43
145	52:45	107	1:05
146	66:17	116	1:00
147	39:08	95	0:47
148	11:48	36	0:26
149	13:42	39	0:27
150	30:27	74	0:33
151	81:55	117	1:04
152	98:16	129	1:10

Ombreggiamento totale sui recettori d'ombra causato da ciascuna WTG

n.	Nome	Caso peggiore [ore/anno]
7	1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)	10:29
8	NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)	109:26
WTG 01	VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (1)	559:39
WTG 02	VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)	608:32
WTG 03	VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)	382:03
WTG 04	VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)	363:38
WTG 05	VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)	323:10
WTG 06	VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (6)	128:48

I tempi totali possono differire tra le tabelle per turbina e quelle per recettore, in quanto ciascuna WTG può dare ombreggiamento su 2 o più recettori contemporaneamente, e/o un recettore può subire ombreggiamento da 2 o più WTGs contemporaneamente.



SHADOW - Calendario

Recettore d'ombra: 1 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (334)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:29	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:28	05:57 19:58	05:29 20:00	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:43 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
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Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 2 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (335)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
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Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 3 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (336)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
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Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 4 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (337)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:29	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:28	05:57 19:58	05:29 20:00	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:43 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36	05:39 20:35	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	06:55 16:38	07:23 16:34
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29	07:17 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	06:28 16:33	07:27 16:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	06:29 16:33	07:27 16:40
31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 5 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (306)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:29	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	05:29 20:29	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:43 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36	05:39 20:35	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	06:55 16:38	07:23 16:34
21	07:23 17:02	06:49 17:41	06:05 18:13	06:14 19:47	05:37 20:18	05:27 20:38	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:24 16:34
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 19:49	05:36 20:20	05:28 20:39	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	07:25 16:35
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:49	06:50 18:57	07:22 18:08	06:59 16:36	07:25 16:36
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	07:00 16:35	07:26 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:26	06:20 19:45	06:52 18:53	07:24 17:05	07:02 16:34	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:25	06:21 19:44	06:53 18:51	07:25 17:04	07:03 16:34	07:26 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	05:32 20:25	05:29 20:39	05:51 20:24	06:22 19:42	06:54 18:50	07:26 17:03	07:04 16:34	07:27 16:38
29	07:17 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	07:05 16:33	07:27 16:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:40
31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 6 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (307)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:28		08:16 (WTG 01)	07:14		08:45 (WTG 01)	06:37		06:46	06:00		05:30
	16:41	65	09:21 (WTG 01)	17:16	25	09:10 (WTG 01)	17:51		19:25	19:58		20:28
2	07:28		08:17 (WTG 01)	07:13		08:49 (WTG 01)	06:36		06:44	05:58		05:30
	16:42	64	09:21 (WTG 01)	17:17	17	09:06 (WTG 01)	17:52		19:26	19:59		20:29
3	07:28		08:17 (WTG 01)	07:12			06:34		06:43	05:57		05:29
	16:43	64	09:21 (WTG 01)	17:19			17:53		19:28	20:00		20:29
4	07:28		08:18 (WTG 01)	07:11			06:33		06:41	05:56		05:29
	16:44	64	09:22 (WTG 01)	17:20			17:54		19:29	20:01		20:30
5	07:28		08:18 (WTG 01)	07:10			06:31		06:39	05:54		05:29
	16:45	64	09:22 (WTG 01)	17:21			17:55		19:30	20:02		20:31
6	07:28		08:19 (WTG 01)	07:09			06:29		06:38	05:53		05:28
	16:46	64	09:23 (WTG 01)	17:22			17:56		19:31	20:03		20:31
7	07:28		08:20 (WTG 01)	07:07			06:28		06:36	05:52		05:28
	16:47	63	09:23 (WTG 01)	17:24			17:58		19:32	20:04		20:32
8	07:28		08:20 (WTG 01)	07:06			06:26		06:34	05:51		05:28
	16:48	63	09:23 (WTG 01)	17:25			17:59		19:33	20:05		20:33
9	07:27		08:20 (WTG 01)	07:05			06:25		06:33	05:50		05:27
	16:49	63	09:23 (WTG 01)	17:26			18:00		19:34	20:06		20:33
10	07:27		08:21 (WTG 01)	07:04			06:23		06:31	05:48		05:27
	16:50	62	09:23 (WTG 01)	17:27			18:01		19:35	20:07		20:34
11	07:27		08:22 (WTG 01)	07:03			06:21		06:29	05:47		05:27
	16:51	62	09:24 (WTG 01)	17:29			18:02		19:36	20:08		20:34
12	07:27		08:22 (WTG 01)	07:01			06:20		06:28	05:46		05:27
	16:52	61	09:23 (WTG 01)	17:30			18:03		19:37	20:09		20:35
13	07:26		08:23 (WTG 01)	07:00			06:18		06:26	05:45		05:27
	16:53	61	09:24 (WTG 01)	17:31			18:04		19:38	20:10		20:35
14	07:26		08:24 (WTG 01)	06:59			06:16		06:25	05:44		05:27
	16:54	60	09:24 (WTG 01)	17:32			18:06		19:39	20:11		20:36
15	07:26		08:24 (WTG 01)	06:58			06:15		06:23	05:43		05:27
	16:55	60	09:24 (WTG 01)	17:34			18:07		19:41	20:12		20:36
16	07:25		08:25 (WTG 01)	06:56			06:13		06:21	05:42		05:27
	16:56	59	09:24 (WTG 01)	17:35			18:08		19:42	20:13		20:37
17	07:25		08:26 (WTG 01)	06:55			06:11		06:20	05:41		05:27
	16:58	58	09:24 (WTG 01)	17:36			18:09		19:43	20:14		20:37
18	07:24		08:27 (WTG 01)	06:54			06:10		06:18	05:40		05:27
	16:59	57	09:24 (WTG 01)	17:37			18:10		19:44	20:15		20:37
19	07:24		08:27 (WTG 01)	06:52			06:08		06:17	05:39		05:27
	17:00	56	09:23 (WTG 01)	17:39			18:11		19:45	20:16		20:38
20	07:23		08:28 (WTG 01)	06:51			06:06		06:15	05:38		05:27
	17:01	55	09:23 (WTG 01)	17:40			18:12		19:46	20:17		20:38
21	07:23		08:29 (WTG 01)	06:49			06:05		06:14	05:37		05:27
	17:02	54	09:23 (WTG 01)	17:41			18:13		19:47	20:18		20:38
22	07:22		08:30 (WTG 01)	06:48			06:03		06:12	05:37		05:27
	17:04	52	09:22 (WTG 01)	17:42			18:14		19:48	20:19		20:38
23	07:21		08:31 (WTG 01)	06:46			06:01		06:11	05:36		05:28
	17:05	51	09:22 (WTG 01)	17:43			18:16		19:49	20:20		20:39
24	07:21		08:32 (WTG 01)	06:45			05:59		06:09	05:35		05:28
	17:06	49	09:21 (WTG 01)	17:45			18:17		19:50	20:21		20:39
25	07:20		08:34 (WTG 01)	06:43			05:58		06:08	05:34		05:28
	17:07	47	09:21 (WTG 01)	17:46			18:18		19:51	20:22		20:39
26	07:19		08:35 (WTG 01)	06:42			05:56		06:06	05:34		05:28
	17:08	45	09:20 (WTG 01)	17:47			18:19		19:52	20:23		20:39
27	07:18		08:36 (WTG 01)	06:40			05:54		06:05	05:33		05:29
	17:10	43	09:19 (WTG 01)	17:48			18:20		19:53	20:24		20:39
28	07:17		08:37 (WTG 01)	06:39			05:53		06:04	05:32		05:29
	17:11	40	09:17 (WTG 01)	17:49			18:21		19:55	20:25		20:39
29	07:17		08:39 (WTG 01)				06:51		06:02	05:32		05:30
	17:12	37	09:16 (WTG 01)				19:22		19:56	20:25		20:39
30	07:16		08:41 (WTG 01)				06:49		06:01	05:31		05:30
	17:13	33	09:14 (WTG 01)				19:23		19:57	20:26		20:39
31	07:15		08:43 (WTG 01)				06:48			05:31		
	17:15	29	09:12 (WTG 01)				19:24			20:27		
Ore potenziali eliofania	296				297				369		399	
Totale, caso peggiore	1705		42									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 6 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (307)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre		Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57		07:07 16:32 62 09:06 (WTG 01)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56		07:08 16:32 62 09:06 (WTG 01)
3	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55		07:09 16:32 63 09:07 (WTG 01)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54		07:10 16:32 63 09:08 (WTG 01)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52		07:11 16:32 63 09:08 (WTG 01)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51		07:12 16:31 64 09:09 (WTG 01)
7	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50		07:13 16:31 64 09:09 (WTG 01)
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	5	08:25 (WTG 01) 07:14 08:30 (WTG 01) 16:31 64 09:10 (WTG 01)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	18	08:20 (WTG 01) 07:15 08:38 (WTG 01) 16:31 64 09:10 (WTG 01)
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:43 16:47	25	08:16 (WTG 01) 07:16 08:41 (WTG 01) 16:31 64 09:11 (WTG 01)
11	05:37 20:36	06:05 20:07	06:36 19:19	07:08 18:28	06:44 16:46	29	08:14 (WTG 01) 07:17 08:43 (WTG 01) 16:31 65 09:12 (WTG 01)
12	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	34	08:12 (WTG 01) 07:17 08:46 (WTG 01) 16:31 64 09:11 (WTG 01)
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	37	08:11 (WTG 01) 07:18 08:48 (WTG 01) 16:32 65 09:12 (WTG 01)
14	05:39 20:35	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	40	08:09 (WTG 01) 07:19 08:49 (WTG 01) 16:32 65 09:13 (WTG 01)
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	43	08:08 (WTG 01) 07:20 08:51 (WTG 01) 16:32 65 09:14 (WTG 01)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	45	08:08 (WTG 01) 07:20 08:53 (WTG 01) 16:32 64 09:13 (WTG 01)
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:19	06:51 16:40	47	08:07 (WTG 01) 07:21 08:54 (WTG 01) 16:32 65 09:14 (WTG 01)
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	49	08:06 (WTG 01) 07:22 08:55 (WTG 01) 16:33 65 09:15 (WTG 01)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	51	08:06 (WTG 01) 07:22 08:57 (WTG 01) 16:33 65 09:15 (WTG 01)
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	06:55 16:38	52	08:05 (WTG 01) 07:23 08:57 (WTG 01) 16:34 65 09:16 (WTG 01)
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	54	08:04 (WTG 01) 07:24 08:58 (WTG 01) 16:34 65 09:16 (WTG 01)
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	55	08:04 (WTG 01) 07:24 08:59 (WTG 01) 16:34 65 09:17 (WTG 01)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	56	08:04 (WTG 01) 07:25 09:00 (WTG 01) 16:35 65 09:17 (WTG 01)
24	05:47 20:27	06:18 19:49	06:50 18:57	07:22 18:08	06:59 16:36	57	08:04 (WTG 01) 07:25 09:01 (WTG 01) 16:36 65 09:17 (WTG 01)
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	07:00 16:35	58	08:04 (WTG 01) 07:26 09:02 (WTG 01) 16:36 65 09:18 (WTG 01)
26	05:49 20:26	06:20 19:45	06:52 18:53	07:25 17:05	07:02 16:35	59	08:03 (WTG 01) 07:26 09:03 (WTG 01) 16:37 65 09:18 (WTG 01)
27	05:50 20:25	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:34	60	08:03 (WTG 01) 07:26 09:03 (WTG 01) 16:37 65 09:18 (WTG 01)
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:03	07:04 16:34	60	08:03 (WTG 01) 07:27 09:03 (WTG 01) 16:38 65 09:20 (WTG 01)
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	61	08:04 (WTG 01) 07:27 09:05 (WTG 01) 16:39 65 09:20 (WTG 01)
30	05:53 20:22	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	61	08:04 (WTG 01) 07:27 09:05 (WTG 01) 16:40 65 09:20 (WTG 01)
31	05:54 20:21	06:25 19:37		06:30 16:59			07:27 16:40 64 09:20 (WTG 01)
Ore potenziali eliofania	460	429	375	345	297		286
Totale, caso peggiore					1056		1995

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 7 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (310)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:28	07:14	07:38 (WTG 02)	06:37	06:46	06:00	05:30	06:18 (WTG 01)
	16:41	17:16	15 07:53 (WTG 02)	17:51	19:25	19:58	20:28	53 07:11 (WTG 01)
2	07:28	07:13	07:37 (WTG 02)	06:36	06:44	05:58	05:30	06:18 (WTG 01)
	16:42	17:17	18 07:55 (WTG 02)	17:52	19:26	19:59	20:29	53 07:11 (WTG 01)
3	07:28	07:12	07:36 (WTG 02)	06:34	06:43	05:57	05:29	06:18 (WTG 01)
	16:43	17:19	20 07:56 (WTG 02)	17:53	19:28	20:00	20:29	53 07:11 (WTG 01)
4	07:28	07:11	07:35 (WTG 02)	06:33	06:41	05:56	05:29	06:19 (WTG 01)
	16:44	17:20	22 07:57 (WTG 02)	17:54	19:29	20:01	20:30	53 07:12 (WTG 01)
5	07:28	07:10	07:35 (WTG 02)	06:31	06:39	05:54	05:29	06:18 (WTG 01)
	16:45	17:21	23 07:58 (WTG 02)	17:55	19:30	20:02	20:31	53 07:11 (WTG 01)
6	07:28	07:09	07:34 (WTG 02)	06:29	06:38	05:53	05:28	06:19 (WTG 01)
	16:46	17:22	25 07:59 (WTG 02)	17:56	19:31	20:03	20:31	53 07:12 (WTG 01)
7	07:28	07:07	07:33 (WTG 02)	06:28	06:36	05:52	05:28	06:19 (WTG 01)
	16:47	17:24	25 07:58 (WTG 02)	17:58	19:32	20:04	20:32	53 07:12 (WTG 01)
8	07:28	07:06	07:33 (WTG 02)	06:26	06:34	05:51	05:28	06:19 (WTG 01)
	16:48	17:25	26 07:59 (WTG 02)	17:59	19:33	20:05	20:33	54 07:13 (WTG 01)
9	07:27	07:05	07:33 (WTG 02)	06:25	06:33	05:50	05:27	06:20 (WTG 01)
	16:49	17:26	26 07:59 (WTG 02)	18:00	19:34	20:06	20:33	53 07:13 (WTG 01)
10	07:27	07:04	07:34 (WTG 02)	06:23	06:31	05:48	05:27	06:19 (WTG 01)
	16:50	17:27	26 08:00 (WTG 02)	18:01	19:35	20:07	20:34	53 07:12 (WTG 01)
11	07:27	07:03	07:33 (WTG 02)	06:21	06:29	05:47	05:27	06:19 (WTG 01)
	16:51	17:29	26 07:59 (WTG 02)	18:02	19:36	20:08	20:34	54 07:13 (WTG 01)
12	07:27	07:01	07:34 (WTG 02)	06:20	06:28	05:46	05:27	06:20 (WTG 01)
	16:52	17:30	25 07:59 (WTG 02)	18:03	19:37	20:09	20:35	53 07:13 (WTG 01)
13	07:26	07:00	07:35 (WTG 02)	06:18	06:26	05:45	05:27	06:20 (WTG 01)
	16:53	17:31	24 07:59 (WTG 02)	18:04	19:38	20:10	20:35	53 07:13 (WTG 01)
14	07:26	06:59	07:35 (WTG 02)	06:16	06:25	05:44	05:27	06:20 (WTG 01)
	16:54	17:32	22 07:57 (WTG 02)	18:06	19:39	20:11	20:36	53 07:13 (WTG 01)
15	07:26	06:58	07:36 (WTG 02)	06:15	06:23	05:43	05:27	06:20 (WTG 01)
	16:55	17:34	21 07:57 (WTG 02)	18:07	19:41	20:12	20:36	54 07:14 (WTG 01)
16	07:25	06:56	07:38 (WTG 02)	06:13	06:21	05:42	05:27	06:21 (WTG 01)
	16:56	17:35	18 07:56 (WTG 02)	18:08	19:42	20:13	20:37	53 07:14 (WTG 01)
17	07:25	06:55	07:39 (WTG 02)	06:11	06:20	05:41	05:27	06:21 (WTG 01)
	16:58	17:36	14 07:53 (WTG 02)	18:09	19:43	20:14	20:37	53 07:14 (WTG 01)
18	07:24	06:54	07:42 (WTG 02)	06:10	06:18	05:40	05:27	06:21 (WTG 01)
	16:59	17:37	9 07:51 (WTG 02)	18:10	19:44	20:15	20:37	53 07:14 (WTG 01)
19	07:24	06:52	06:08	06:17	05:39	05:39	05:27	06:21 (WTG 01)
	17:00	17:39	18:11	19:45	20:16	20:38	20:38	53 07:14 (WTG 01)
20	07:23	06:51	06:06	06:15	05:38	05:38	05:27	06:22 (WTG 01)
	17:01	17:40	18:12	19:46	20:17	20:38	20:38	53 07:15 (WTG 01)
21	07:23	06:49	06:05	06:14	05:38	05:38	05:27	06:22 (WTG 01)
	17:02	17:41	18:13	19:47	20:18	20:38	20:38	53 07:15 (WTG 01)
22	07:22	06:48	06:03	06:12	05:37	05:37	05:27	06:22 (WTG 01)
	17:04	17:42	18:14	19:48	20:19	20:38	20:38	53 07:15 (WTG 01)
23	07:21	06:46	06:01	06:11	05:36	05:36	05:28	06:22 (WTG 01)
	17:05	17:43	18:16	19:49	20:20	20:39	20:39	53 07:15 (WTG 01)
24	07:21	06:45	05:59	06:09	05:35	05:35	05:28	06:23 (WTG 01)
	17:06	17:45	18:17	19:50	20:21	20:39	20:39	53 07:16 (WTG 01)
25	07:20	06:43	05:58	06:08	05:34	05:34	05:28	06:23 (WTG 01)
	17:07	17:46	18:18	19:51	20:22	20:39	20:39	53 07:16 (WTG 01)
26	07:19	06:42	05:56	06:06	05:34	05:34	05:29	06:23 (WTG 01)
	17:08	17:47	18:19	19:52	20:23	20:39	20:39	53 07:16 (WTG 01)
27	07:18	06:40	05:54	06:05	05:33	05:33	05:29	06:24 (WTG 01)
	17:10	17:48	18:20	19:53	20:24	20:39	20:39	53 07:17 (WTG 01)
28	07:17	06:39	05:53	06:04	05:32	05:32	05:29	06:23 (WTG 01)
	17:11	17:49	18:21	19:55	20:25	20:39	20:39	53 07:16 (WTG 01)
29	07:17		06:51	06:02	05:32	05:32	05:30	06:23 (WTG 01)
	17:12		19:22	19:56	20:25	20:39	20:39	53 07:16 (WTG 01)
30	07:16	07:43 (WTG 02)	06:49	06:01	05:31	05:31	05:30	06:24 (WTG 01)
	17:13	4 07:47 (WTG 02)	19:23	19:57	20:26	20:39	20:39	53 07:17 (WTG 01)
31	07:15	07:40 (WTG 02)	06:48		05:31	05:31	05:30	
	17:15	11 07:51 (WTG 02)	19:24		20:27	20:39	20:39	
Ore potenziali eliofanìa	296	297	369	399	449	1064	454	1593
Totale, caso peggiore	15	385						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 7 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (310)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	06:24 (WTG 01)	05:55	06:37 (WTG 01)	06:26	06:57			06:32	07:03 (WTG 02)	07:07	
	20:39	53	07:17 (WTG 01)	20:19	34	07:11 (WTG 01)	19:36	18:45	16:57	25	07:28 (WTG 02)	16:32
2	05:31	06:24 (WTG 01)	05:56	06:38 (WTG 01)	06:27	06:58			06:33	07:03 (WTG 02)	07:08	
	20:39	53	07:17 (WTG 01)	20:18	32	07:10 (WTG 01)	19:34	18:43	16:56	26	07:29 (WTG 02)	16:32
3	05:32	06:24 (WTG 01)	05:57	06:40 (WTG 01)	06:28	06:59			06:34	07:03 (WTG 02)	07:09	
	20:39	53	07:17 (WTG 01)	20:17	28	07:08 (WTG 01)	19:32	18:41	16:55	26	07:29 (WTG 02)	16:32
4	05:32	06:25 (WTG 01)	05:58	06:42 (WTG 01)	06:29	07:00			06:35	07:03 (WTG 02)	07:10	
	20:38	53	07:18 (WTG 01)	20:16	24	07:06 (WTG 01)	19:31	18:40	16:54	25	07:28 (WTG 02)	16:32
5	05:33	06:25 (WTG 01)	05:59	06:45 (WTG 01)	06:30	07:01			06:36	07:04 (WTG 02)	07:11	
	20:38	53	07:18 (WTG 01)	20:15	18	07:03 (WTG 01)	19:29	18:38	16:52	25	07:29 (WTG 02)	16:32
6	05:33	06:25 (WTG 01)	06:00	06:49 (WTG 01)	06:31	07:02			06:38	07:05 (WTG 02)	07:12	
	20:38	53	07:18 (WTG 01)	20:14	10	06:59 (WTG 01)	19:27	18:36	16:51	23	07:28 (WTG 02)	16:31
7	05:34	06:25 (WTG 01)	06:01			06:32	07:03		06:39	07:05 (WTG 02)	07:13	
	20:38	54	07:19 (WTG 01)	20:12		19:26	18:35		16:50	22	07:27 (WTG 02)	16:31
8	05:35	06:25 (WTG 01)	06:02			06:33	07:04		06:40	07:06 (WTG 02)	07:14	
	20:37	53	07:18 (WTG 01)	20:11		19:24	18:33		16:49	20	07:26 (WTG 02)	16:31
9	05:35	06:26 (WTG 01)	06:03			06:34	07:05		06:41	07:08 (WTG 02)	07:15	
	20:37	53	07:19 (WTG 01)	20:10		19:22	18:31		16:48	18	07:26 (WTG 02)	16:31
10	05:36	06:26 (WTG 01)	06:04			06:35	07:06		06:43	07:09 (WTG 02)	07:16	
	20:36	53	07:19 (WTG 01)	20:09		19:21	18:30		16:47	15	07:24 (WTG 02)	16:31
11	05:37	06:26 (WTG 01)	06:05			06:36	07:08		06:44	07:11 (WTG 02)	07:17	
	20:36	53	07:19 (WTG 01)	20:07		19:19	18:28		16:46	11	07:22 (WTG 02)	16:31
12	05:37	06:26 (WTG 01)	06:06			06:37	07:09		06:45	07:16 (WTG 02)	07:17	
	20:36	53	07:19 (WTG 01)	20:06		19:17	18:26		16:45	2	07:18 (WTG 02)	16:31
13	05:38	06:27 (WTG 01)	06:07			06:38	07:10		06:46		07:18	
	20:35	52	07:19 (WTG 01)	20:05		19:16	18:25		16:44		16:32	
14	05:39	06:27 (WTG 01)	06:08			06:39	07:11		06:47		07:19	
	20:34	53	07:20 (WTG 01)	20:03		19:14	18:23		16:43		16:32	
15	05:40	06:27 (WTG 01)	06:09			06:40	07:12		06:49		07:20	
	20:34	52	07:19 (WTG 01)	20:02		19:12	18:22		16:42		16:32	
16	05:40	06:27 (WTG 01)	06:10			06:41	07:13		06:50		07:20	
	20:33	52	07:19 (WTG 01)	20:00		19:10	18:20		16:41		16:32	
17	05:41	06:28 (WTG 01)	06:11			06:42	07:14		06:51		07:21	
	20:33	51	07:19 (WTG 01)	19:59		19:09	18:19		16:40		16:32	
18	05:42	06:28 (WTG 01)	06:12			06:43	07:15		06:52		07:22	
	20:32	51	07:19 (WTG 01)	19:58		19:07	18:17		16:40		16:33	
19	05:43	06:29 (WTG 01)	06:13			06:44	07:16		06:53		07:22	
	20:31	50	07:19 (WTG 01)	19:56		19:05	18:15		16:39		16:33	
20	05:44	06:28 (WTG 01)	06:14			06:45	07:18		06:55		07:23	
	20:31	50	07:18 (WTG 01)	19:55		19:04	18:14		16:38		16:34	
21	05:45	06:29 (WTG 01)	06:15			06:46	07:19		06:56		07:24	
	20:30	49	07:18 (WTG 01)	19:53		19:02	18:12		16:37		16:34	
22	05:45	06:29 (WTG 01)	06:16			06:47	07:20		06:57		07:24	
	20:29	49	07:18 (WTG 01)	19:52		19:00	18:11		16:37		16:34	
23	05:46	06:30 (WTG 01)	06:17			06:48	07:21		06:58		07:25	
	20:28	48	07:18 (WTG 01)	19:50		18:58	18:10		16:36		16:35	
24	05:47	06:31 (WTG 01)	06:18			06:50	07:22		06:59		07:25	
	20:27	47	07:18 (WTG 01)	19:49		18:57	18:08	10	08:11 (WTG 02)	06:59	07:25	
25	05:48	06:31 (WTG 01)	06:19			06:51	06:23		07:09 (WTG 02)	07:00	07:26	
	20:26	46	07:17 (WTG 01)	19:47		18:55	17:07	15	07:24 (WTG 02)	16:35	07:26	
26	05:49	06:32 (WTG 01)	06:20			06:52	06:25		07:07 (WTG 02)	07:02	07:26	
	20:26	45	07:17 (WTG 01)	19:45		18:53	17:05	19	07:26 (WTG 02)	16:35	07:26	
27	05:50	06:32 (WTG 01)	06:21			06:53	06:26		07:05 (WTG 02)	07:03	07:26	
	20:25	43	07:15 (WTG 01)	19:44		18:51	17:04	21	07:26 (WTG 02)	16:34	07:26	
28	05:51	06:33 (WTG 01)	06:22			06:54	06:27		07:04 (WTG 02)	07:04	07:27	
	20:24	42	07:15 (WTG 01)	19:42		18:50	17:03	23	07:27 (WTG 02)	16:34	07:27	
29	05:52	06:34 (WTG 01)	06:23			06:55	06:28		07:04 (WTG 02)	07:05	07:27	
	20:23	40	07:14 (WTG 01)	19:41		18:48	17:01	24	07:28 (WTG 02)	16:33	07:27	
30	05:53	06:35 (WTG 01)	06:24			06:56	06:29		07:04 (WTG 02)	07:06	07:27	
	20:22	38	07:13 (WTG 01)	19:39		18:46	17:00	25	07:29 (WTG 02)	16:33	07:27	
31	05:54	06:36 (WTG 01)	06:25				06:30		07:03 (WTG 02)		07:27	
	20:21	36	07:12 (WTG 01)	19:37			16:59	26	07:29 (WTG 02)		07:27	
Ore potenziali eliofanía	460		429		375	345			297	238	286	
Totale, caso peggiore	1531		146		163							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 8 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (338)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:28 16:41	07:14 17:16	07:41 (WTG 02)	06:37	06:46	06:00		05:30
2	07:28 16:42	07:13 17:17	5 07:46 (WTG 02)	17:51	19:25	19:58	20:28	51 07:07 (WTG 01)
3	07:28 16:43	07:12 17:19	12 07:50 (WTG 02)	17:52	19:26	19:59	20:29	51 07:06 (WTG 01)
4	07:28 16:44	07:11 17:20	16 07:52 (WTG 02)	17:53	19:28	20:00	20:29	51 07:07 (WTG 01)
5	07:28 16:45	07:10 17:21	19 07:54 (WTG 02)	17:54	19:29	20:01	20:30	52 07:08 (WTG 01)
6	07:28 16:46	07:09 17:22	21 07:55 (WTG 02)	17:55	19:30	20:02	20:31	52 07:07 (WTG 01)
7	07:28 16:47	07:07 17:24	22 07:56 (WTG 02)	17:56	19:31	20:03	20:31	52 07:08 (WTG 01)
8	07:28 16:48	07:06 17:25	24 07:57 (WTG 02)	17:59	19:33	20:05	20:33	53 07:09 (WTG 01)
9	07:27 16:49	07:05 17:26	25 07:57 (WTG 02)	18:00	19:34	20:06	20:33	52 06:17 (WTG 01)
10	07:27 16:50	07:04 17:27	26 07:58 (WTG 02)	18:01	19:35	20:07	20:34	53 07:09 (WTG 01)
11	07:27 16:51	07:03 17:29	26 07:57 (WTG 02)	18:02	19:36	20:08	20:34	53 07:09 (WTG 01)
12	07:27 16:52	07:01 17:30	25 07:57 (WTG 02)	18:03	19:37	20:09	20:35	53 07:09 (WTG 01)
13	07:26 16:53	07:00 17:31	25 07:57 (WTG 02)	18:04	19:38	20:10	20:35	52 07:09 (WTG 01)
14	07:26 16:54	06:59 17:32	24 07:56 (WTG 02)	18:06	19:39	20:11	20:36	53 07:10 (WTG 01)
15	07:26 16:55	06:58 17:34	23 07:56 (WTG 02)	18:07	19:41	20:12	20:36	53 07:10 (WTG 01)
16	07:25 16:56	06:56 17:35	22 07:56 (WTG 02)	18:08	19:42	20:13	20:37	53 07:10 (WTG 01)
17	07:25 16:58	06:55 17:36	20 07:54 (WTG 02)	18:09	19:43	20:14	20:37	53 07:10 (WTG 01)
18	07:24 16:59	06:54 17:37	17 07:53 (WTG 02)	18:10	19:44	20:15	20:37	53 07:10 (WTG 01)
19	07:24 17:00	06:52 17:39	12 07:51 (WTG 02)	18:11	19:45	20:16	20:38	53 07:10 (WTG 01)
20	07:23 17:01	06:51 17:40	4 07:46 (WTG 02)	18:12	19:46	20:17	20:38	53 07:11 (WTG 01)
21	07:23 17:02	06:49 17:41		18:13	19:47	20:18	20:38	52 07:11 (WTG 01)
22	07:22 17:04	06:48 17:42		18:14	19:48	20:19	20:38	52 07:11 (WTG 01)
23	07:21 17:05	06:46 17:43		18:16	19:49	20:20	20:39	53 07:11 (WTG 01)
24	07:21 17:06	06:45 17:44		18:17	19:50	20:21	20:39	53 07:12 (WTG 01)
25	07:20 17:07	06:43 17:46		18:18	19:51	20:22	20:39	53 07:12 (WTG 01)
26	07:19 17:08	06:42 17:47		18:19	19:52	20:23	20:39	53 07:12 (WTG 01)
27	07:18 17:10	06:40 17:48		18:20	19:53	20:24	20:39	53 07:13 (WTG 01)
28	07:17 17:11	06:39 17:49		18:21	19:55	20:25	20:39	53 07:13 (WTG 01)
29	07:17 17:12			18:22	19:56	20:26	20:39	53 07:13 (WTG 01)
30	07:16 17:13			18:23	19:57	20:27	20:39	53 07:13 (WTG 01)
31	07:15 17:15			18:24		20:28	20:39	53 07:13 (WTG 01)
Ore potenziali eliofania	296	297	393	369	399	449	844	454
Totale, caso peggiore								1576

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 8 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (338)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	06:20 (WTG 01)	05:55	06:41 (WTG 01)	06:26	06:57			06:32	07:01 (WTG 02)	07:07	
	20:39	53	07:13 (WTG 01)	20:19	19	07:00 (WTG 01)	19:36	18:45	16:57	26	07:27 (WTG 02)	16:32
2	05:31	06:21 (WTG 01)	05:56	06:44 (WTG 01)	06:27	06:58			06:33	07:02 (WTG 02)	07:08	
	20:39	53	07:14 (WTG 01)	20:18	13	06:57 (WTG 01)	19:34	18:43	16:56	25	07:27 (WTG 02)	16:32
3	05:32	06:21 (WTG 01)	05:57		06:28	06:59			06:34	07:02 (WTG 02)	07:09	
	20:39	52	07:13 (WTG 01)	20:17		19:32	18:41	16:55	24	07:26 (WTG 02)	16:32	
4	05:32	06:21 (WTG 01)	05:58		06:29	07:00			06:35	07:02 (WTG 02)	07:10	
	20:38	53	07:14 (WTG 01)	20:16	19:31	18:40			16:54	24	07:26 (WTG 02)	16:32
5	05:33	06:22 (WTG 01)	05:59		06:30	07:01			06:36	07:03 (WTG 02)	07:11	
	20:38	52	07:14 (WTG 01)	20:15	19:29	18:38			16:52	23	07:26 (WTG 02)	16:32
6	05:33	06:22 (WTG 01)	06:00		06:31	07:02			06:38	07:04 (WTG 02)	07:12	
	20:38	52	07:14 (WTG 01)	20:14	19:27	18:36			16:51	21	07:25 (WTG 02)	16:31
7	05:34	06:22 (WTG 01)	06:01		06:32	07:03			06:39	07:05 (WTG 02)	07:13	
	20:38	53	07:15 (WTG 01)	20:12	19:26	18:35			16:50	18	07:23 (WTG 02)	16:31
8	05:35	06:22 (WTG 01)	06:02		06:33	07:04			06:40	07:06 (WTG 02)	07:14	
	20:37	52	07:14 (WTG 01)	20:11	19:24	18:33			16:49	16	07:22 (WTG 02)	16:31
9	05:35	06:23 (WTG 01)	06:03		06:34	07:05			06:41	07:07 (WTG 02)	07:15	
	20:37	51	07:14 (WTG 01)	20:10	19:22	18:31			16:48	11	07:20 (WTG 02)	16:31
10	05:36	06:23 (WTG 01)	06:04		06:35	07:06			06:43	07:13 (WTG 02)	07:16	
	20:36	52	07:15 (WTG 01)	20:09	19:21	18:30			16:47	3	07:16 (WTG 02)	16:31
11	05:37	06:23 (WTG 01)	06:05		06:36	07:08			06:44		07:17	
	20:36	51	07:14 (WTG 01)	20:07	19:19	18:28			16:46		16:31	
12	05:37	06:24 (WTG 01)	06:06		06:37	07:09			06:45		07:17	
	20:36	50	07:14 (WTG 01)	20:06	19:17	18:26			16:45		16:31	
13	05:38	06:24 (WTG 01)	06:07		06:38	07:10			06:46		07:18	
	20:35	51	07:15 (WTG 01)	20:05	19:16	18:25			16:44		16:32	
14	05:39	06:25 (WTG 01)	06:08		06:39	07:11			06:47		07:19	
	20:34	50	07:15 (WTG 01)	20:03	19:14	18:23			16:43		16:32	
15	05:40	06:24 (WTG 01)	06:09		06:40	07:12			06:49		07:20	
	20:34	50	07:14 (WTG 01)	20:02	19:12	18:22			16:42		16:32	
16	05:40	06:25 (WTG 01)	06:10		06:41	07:13			06:50		07:20	
	20:33	49	07:14 (WTG 01)	20:00	19:10	18:20			16:41		16:32	
17	05:41	06:26 (WTG 01)	06:11		06:42	07:14			06:51		07:21	
	20:33	48	07:14 (WTG 01)	19:59	19:09	18:19			16:40		16:32	
18	05:42	06:26 (WTG 01)	06:12		06:43	07:15			06:52		07:22	
	20:32	48	07:14 (WTG 01)	19:58	19:07	18:17			16:40		16:33	
19	05:43	06:27 (WTG 01)	06:13		06:44	07:16			06:53		07:22	
	20:31	47	07:14 (WTG 01)	19:56	19:05	18:15			16:39		16:33	
20	05:44	06:27 (WTG 01)	06:14		06:45	07:18			06:55		07:23	
	20:31	46	07:13 (WTG 01)	19:55	19:04	18:14			16:38		16:34	
21	05:45	06:27 (WTG 01)	06:15		06:46	07:19			06:56		07:24	
	20:30	45	07:12 (WTG 01)	19:53	19:02	18:12			16:37		16:34	
22	05:45	06:28 (WTG 01)	06:16		06:47	07:20	08:11 (WTG 02)	06:57			07:24	
	20:29	44	07:12 (WTG 01)	19:52	19:00	18:11	8	08:19 (WTG 02)	16:37		16:34	
23	05:46	06:29 (WTG 01)	06:17		06:48	07:21	08:07 (WTG 02)	06:58			07:25	
	20:28	43	07:12 (WTG 01)	19:50	18:58	18:10	14	08:21 (WTG 02)	16:36		16:35	
24	05:47	06:30 (WTG 01)	06:18		06:50	07:22	08:05 (WTG 02)	06:59			07:25	
	20:27	41	07:11 (WTG 01)	19:49	18:57	18:08	18	08:23 (WTG 02)	16:36		16:36	
25	05:48	06:31 (WTG 01)	06:19		06:51	06:23	07:05 (WTG 02)	07:00			07:26	
	20:26	40	07:11 (WTG 01)	19:47	18:55	17:07	20	07:25 (WTG 02)	16:35		16:36	
26	05:49	06:32 (WTG 01)	06:20		06:52	06:25	07:03 (WTG 02)	07:02			07:26	
	20:26	38	07:10 (WTG 01)	19:45	18:53	17:05	23	07:26 (WTG 02)	16:35		16:37	
27	05:50	06:33 (WTG 01)	06:21		06:53	06:26	07:02 (WTG 02)	07:03			07:26	
	20:25	36	07:09 (WTG 01)	19:44	18:51	17:04	24	07:26 (WTG 02)	16:34		16:37	
28	05:51	06:33 (WTG 01)	06:22		06:54	06:27	07:01 (WTG 02)	07:04			07:27	
	20:24	34	07:07 (WTG 01)	19:42	18:50	17:03	25	07:26 (WTG 02)	16:34		16:38	
29	05:52	06:35 (WTG 01)	06:23		06:55	06:28	07:02 (WTG 02)	07:05			07:27	
	20:23	31	07:06 (WTG 01)	19:41	18:48	17:01	25	07:27 (WTG 02)	16:33		16:39	
30	05:53	06:36 (WTG 01)	06:24		06:56	06:29	07:01 (WTG 02)	07:06			07:27	
	20:22	28	07:04 (WTG 01)	19:39	18:46	17:00	26	07:27 (WTG 02)	16:33		16:40	
31	05:54	06:38 (WTG 01)	06:25			06:30	07:01 (WTG 02)				07:27	
	20:21	24	07:02 (WTG 01)	19:37		16:59	26	07:27 (WTG 02)			16:40	
Ore potenziali eliofanía	460		429		375	345		297		191		286
Totale, caso peggiore	1417		32				209					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 9 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (339)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:28	07:14	07:40 (WTG 02)	06:37	06:46	06:00		05:30
	16:41	17:16	7 07:47 (WTG 02)	17:51	19:25	19:58		20:28
2	07:28	07:13	07:38 (WTG 02)	06:36	06:44	05:58		05:30
	16:42	17:17	13 07:51 (WTG 02)	17:52	19:26	19:59		20:29
3	07:28	07:12	07:36 (WTG 02)	06:34	06:43	05:57		05:29
	16:43	17:19	16 07:52 (WTG 02)	17:53	19:28	20:00		20:29
4	07:28	07:11	07:35 (WTG 02)	06:33	06:41	05:56		05:29
	16:44	17:20	19 07:54 (WTG 02)	17:54	19:29	20:01		20:30
5	07:28	07:10	07:34 (WTG 02)	06:31	06:39	05:54		05:29
	16:45	17:21	21 07:55 (WTG 02)	17:55	19:30	20:02		20:31
6	07:28	07:09	07:34 (WTG 02)	06:29	06:38	05:53		05:28
	16:46	17:22	22 07:56 (WTG 02)	17:56	19:31	20:03		20:31
7	07:28	07:07	07:32 (WTG 02)	06:28	06:36	05:52		05:28
	16:47	17:24	24 07:56 (WTG 02)	17:58	19:32	20:04		20:32
8	07:28	07:06	07:32 (WTG 02)	06:26	06:34	05:51		05:28
	16:48	17:25	25 07:57 (WTG 02)	17:59	19:33	20:05		20:33
9	07:27	07:05	07:32 (WTG 02)	06:25	06:33	05:50		05:27
	16:49	17:26	26 07:58 (WTG 02)	18:00	19:34	20:06		20:33
10	07:27	07:04	07:32 (WTG 02)	06:23	06:31	05:48		05:27
	16:50	17:27	26 07:58 (WTG 02)	18:01	19:35	20:07		20:34
11	07:27	07:03	07:31 (WTG 02)	06:21	06:29	05:47		05:27
	16:51	17:29	26 07:57 (WTG 02)	18:02	19:36	20:08	15	06:32 (WTG 01)
12	07:27	07:01	07:32 (WTG 02)	06:20	06:28	05:46		06:47 (WTG 01)
	16:52	17:30	26 07:58 (WTG 02)	18:03	19:37	20:09	21	06:29 (WTG 01)
13	07:26	07:00	07:32 (WTG 02)	06:18	06:26	05:45		06:27 (WTG 01)
	16:53	17:31	26 07:58 (WTG 02)	18:04	19:38	20:10	25	06:52 (WTG 01)
14	07:26	06:59	07:32 (WTG 02)	06:16	06:25	05:44		06:25 (WTG 01)
	16:54	17:32	25 07:57 (WTG 02)	18:06	19:39	20:11	29	06:50 (WTG 01)
15	07:26	06:58	07:33 (WTG 02)	06:15	06:23	05:43		06:24 (WTG 01)
	16:55	17:34	23 07:56 (WTG 02)	18:07	19:41	20:12	31	06:54 (WTG 01)
16	07:25	06:56	07:34 (WTG 02)	06:13	06:21	05:42		06:22 (WTG 01)
	16:56	17:35	22 07:56 (WTG 02)	18:08	19:42	20:13	34	06:56 (WTG 01)
17	07:25	06:55	07:35 (WTG 02)	06:11	06:20	05:41		06:22 (WTG 01)
	16:58	17:36	19 07:54 (WTG 02)	18:09	19:43	20:14	36	06:58 (WTG 01)
18	07:24	06:54	07:37 (WTG 02)	06:10	06:18	05:40		06:21 (WTG 01)
	16:59	17:37	16 07:53 (WTG 02)	18:10	19:44	20:15	38	06:59 (WTG 01)
19	07:24	06:52	07:39 (WTG 02)	06:08	06:17	05:39		06:20 (WTG 01)
	17:00	17:39	12 07:51 (WTG 02)	18:11	19:45	20:16	40	07:00 (WTG 01)
20	07:23	06:51		06:06	06:15	05:38		06:19 (WTG 01)
	17:01	17:40		18:12	19:46	20:17	42	07:01 (WTG 01)
21	07:23	06:49		06:05	06:14	05:38		06:18 (WTG 01)
	17:02	17:41		18:13	19:47	20:18	43	07:01 (WTG 01)
22	07:22	06:48		06:03	06:12	05:37		06:18 (WTG 01)
	17:04	17:42		18:14	19:48	20:19	44	07:02 (WTG 01)
23	07:21	06:46		06:01	06:11	05:36		06:17 (WTG 01)
	17:05	17:43		18:16	19:49	20:20	46	07:03 (WTG 01)
24	07:21	06:45		05:59	06:09	05:35		06:17 (WTG 01)
	17:06	17:45		18:17	19:50	20:21	46	07:03 (WTG 01)
25	07:20	06:43		05:58	06:08	05:34		06:17 (WTG 01)
	17:07	17:46		18:18	19:51	20:22	47	07:04 (WTG 01)
26	07:19	06:42		05:56	06:06	05:34		06:16 (WTG 01)
	17:08	17:47		18:19	19:52	20:23	48	07:04 (WTG 01)
27	07:18	06:40		05:54	06:05	05:33		06:16 (WTG 01)
	17:10	17:48		18:20	19:53	20:24	48	07:04 (WTG 01)
28	07:17	06:39		05:53	06:04	05:32		06:16 (WTG 01)
	17:11	17:49		18:21	19:55	20:25	49	07:05 (WTG 01)
29	07:17			06:51	06:02	05:32		06:15 (WTG 01)
	17:12			19:22	19:56	20:25	50	07:05 (WTG 01)
30	07:16			06:49	06:01	05:31		06:16 (WTG 01)
	17:13			19:23	19:57	20:26	50	07:06 (WTG 01)
31	07:15			06:48		05:31		06:15 (WTG 01)
	17:15			19:24		20:27	51	07:06 (WTG 01)
Ore potenziali eliofania	296	297		369	399	449		454
Totale, caso peggiore			394				833	1582

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 9 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (339)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	06:20 (WTG 01)	05:55	06:41 (WTG 01)	06:26	06:57	06:32	07:01 (WTG 02)	07:07			
	20:39	53 07:13 (WTG 01)	20:19	18 06:59 (WTG 01)	19:36	18:45	16:57	26 07:27 (WTG 02)	16:32			
2	05:31	06:21 (WTG 01)	05:56	06:45 (WTG 01)	06:27	06:58	06:33	07:02 (WTG 02)	07:08			
	20:39	53 07:14 (WTG 01)	20:18	10 06:55 (WTG 01)	19:34	18:43	16:56	25 07:27 (WTG 02)	16:32			
3	05:32	06:20 (WTG 01)	05:57		06:28	06:59	06:34	07:02 (WTG 02)	07:09			
	20:39	53 07:13 (WTG 01)	20:17		19:32	18:41	16:55	25 07:27 (WTG 02)	16:32			
4	05:32	06:21 (WTG 01)	05:58		06:29	07:00	06:35	07:02 (WTG 02)	07:10			
	20:38	53 07:14 (WTG 01)	20:16		19:31	18:40	16:54	24 07:26 (WTG 02)	16:32			
5	05:33	06:22 (WTG 01)	05:59		06:30	07:01	06:36	07:03 (WTG 02)	07:11			
	20:38	52 07:14 (WTG 01)	20:15		19:29	18:38	16:52	23 07:26 (WTG 02)	16:32			
6	05:33	06:21 (WTG 01)	06:00		06:31	07:02	06:38	07:04 (WTG 02)	07:12			
	20:38	53 07:14 (WTG 01)	20:14		19:27	18:36	16:51	21 07:25 (WTG 02)	16:31			
7	05:34	06:22 (WTG 01)	06:01		06:32	07:03	06:39	07:05 (WTG 02)	07:13			
	20:38	52 07:14 (WTG 01)	20:12		19:26	18:35	16:50	19 07:24 (WTG 02)	16:31			
8	05:35	06:22 (WTG 01)	06:02		06:33	07:04	06:40	07:06 (WTG 02)	07:14			
	20:37	52 07:14 (WTG 01)	20:11		19:24	18:33	16:49	16 07:22 (WTG 02)	16:31			
9	05:35	06:22 (WTG 01)	06:03		06:34	07:05	06:41	07:09 (WTG 02)	07:15			
	20:37	52 07:14 (WTG 01)	20:10		19:22	18:31	16:48	12 07:21 (WTG 02)	16:31			
10	05:36	06:23 (WTG 01)	06:04		06:35	07:06	06:43	07:11 (WTG 02)	07:16			
	20:36	52 07:15 (WTG 01)	20:09		19:21	18:30	16:47	7 07:18 (WTG 02)	16:31			
11	05:37	06:23 (WTG 01)	06:05		06:36	07:08	06:44		07:17			
	20:36	51 07:14 (WTG 01)	20:07		19:19	18:28	16:46		16:31			
12	05:37	06:23 (WTG 01)	06:06		06:37	07:09	06:45		07:17			
	20:36	51 07:14 (WTG 01)	20:06		19:17	18:26	16:45		16:31			
13	05:38	06:24 (WTG 01)	06:07		06:38	07:10	06:46		07:18			
	20:35	50 07:14 (WTG 01)	20:05		19:16	18:25	16:44		16:32			
14	05:39	06:25 (WTG 01)	06:08		06:39	07:11	06:47		07:19			
	20:34	50 07:15 (WTG 01)	20:03		19:14	18:23	16:43		16:32			
15	05:40	06:24 (WTG 01)	06:09		06:40	07:12	06:49		07:20			
	20:34	50 07:14 (WTG 01)	20:02		19:12	18:22	16:42		16:32			
16	05:40	06:25 (WTG 01)	06:10		06:41	07:13	06:50		07:20			
	20:33	49 07:14 (WTG 01)	20:00		19:10	18:20	16:41		16:32			
17	05:41	06:25 (WTG 01)	06:11		06:42	07:14	06:51		07:21			
	20:33	49 07:14 (WTG 01)	19:59		19:09	18:19	16:40		16:32			
18	05:42	06:26 (WTG 01)	06:12		06:43	07:15	06:52		07:22			
	20:32	48 07:14 (WTG 01)	19:58		19:07	18:17	16:40		16:33			
19	05:43	06:27 (WTG 01)	06:13		06:44	07:16	06:53		07:22			
	20:31	47 07:14 (WTG 01)	19:56		19:05	18:15	16:39		16:33			
20	05:44	06:27 (WTG 01)	06:14		06:45	07:18	06:55		07:23			
	20:31	45 07:12 (WTG 01)	19:55		19:04	18:14	16:38		16:34			
21	05:45	06:27 (WTG 01)	06:15		06:46	07:19	06:56		07:24			
	20:30	45 07:12 (WTG 01)	19:53		19:02	18:12	16:37		16:34			
22	05:45	06:28 (WTG 01)	06:16		06:47	07:20	06:57	08:12 (WTG 02)	07:24			
	20:29	44 07:12 (WTG 01)	19:52		19:00	18:11	16:37	6 08:18 (WTG 02)	16:34			
23	05:46	06:29 (WTG 01)	06:17		06:48	07:21	06:58	08:08 (WTG 02)	07:25			
	20:28	42 07:11 (WTG 01)	19:50		18:58	18:10	16:36	13 08:21 (WTG 02)	16:35			
24	05:47	06:30 (WTG 01)	06:18		06:50	07:22	06:59	08:06 (WTG 02)	07:25			
	20:27	41 07:11 (WTG 01)	19:49		18:57	18:08	16:36	17 08:23 (WTG 02)	16:36			
25	05:48	06:31 (WTG 01)	06:19		06:51	06:23	07:05 (WTG 02)	07:00	07:26			
	20:26	39 07:10 (WTG 01)	19:47		18:55	17:07	20 07:25 (WTG 02)	16:35	16:36			
26	05:49	06:32 (WTG 01)	06:20		06:52	06:25	07:04 (WTG 02)	07:02	07:26			
	20:26	37 07:09 (WTG 01)	19:45		18:53	17:05	22 07:26 (WTG 02)	16:35	16:37			
27	05:50	06:32 (WTG 01)	06:21		06:53	06:26	07:03 (WTG 02)	07:03	07:26			
	20:25	36 07:08 (WTG 01)	19:44		18:51	17:04	23 07:26 (WTG 02)	16:34	16:37			
28	05:51	06:33 (WTG 01)	06:22		06:54	06:27	07:02 (WTG 02)	07:04	07:27			
	20:24	33 07:06 (WTG 01)	19:42		18:50	17:03	24 07:26 (WTG 02)	16:34	16:38			
29	05:52	06:35 (WTG 01)	06:23		06:55	06:28	07:02 (WTG 02)	07:05	07:27			
	20:23	30 07:05 (WTG 01)	19:41		18:48	17:01	25 07:27 (WTG 02)	16:33	16:39			
30	05:53	06:36 (WTG 01)	06:24		06:56	06:29	07:02 (WTG 02)	07:06	07:27			
	20:22	28 07:04 (WTG 01)	19:39		18:46	17:00	25 07:27 (WTG 02)	16:33	16:40			
31	05:54	06:38 (WTG 01)	06:25			06:30	07:01 (WTG 02)		07:27			
	20:21	24 07:02 (WTG 01)	19:37			16:59	26 07:27 (WTG 02)		16:40			
Ore potenziali eliofanía	460		429		375	345	297	198				286
Totale, caso peggiore	1414		28			201						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 10 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (340)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:28	07:52 (WTG 02)	07:14	06:37	06:46				06:00	06:45 (WTG 01)	05:30	06:52 (WTG 01)
	16:41	29 08:21 (WTG 02)	17:16	17:51	19:25				19:58	77 08:02 (WTG 01)	20:28	61 07:53 (WTG 01)
2	07:28	07:52 (WTG 02)	07:13	06:36	06:44				05:58	06:45 (WTG 01)	05:30	06:51 (WTG 01)
	16:42	29 08:21 (WTG 02)	17:17	17:52	19:26				19:59	78 08:03 (WTG 01)	20:29	61 07:52 (WTG 01)
3	07:28	07:53 (WTG 02)	07:12	06:34	06:43				05:57	06:44 (WTG 01)	05:29	06:52 (WTG 01)
	16:43	29 08:22 (WTG 02)	17:19	17:53	19:28				20:00	78 08:02 (WTG 01)	20:29	60 07:52 (WTG 01)
4	07:28	07:53 (WTG 02)	07:11	06:33	06:41				05:56	06:44 (WTG 01)	05:29	06:53 (WTG 01)
	16:44	29 08:22 (WTG 02)	17:20	17:54	19:29				20:01	78 08:02 (WTG 01)	20:30	59 07:52 (WTG 01)
5	07:28	07:54 (WTG 02)	07:10	06:31	06:39				05:54	06:44 (WTG 01)	05:29	06:53 (WTG 01)
	16:45	29 08:23 (WTG 02)	17:21	17:55	19:30				20:02	78 08:02 (WTG 01)	20:31	58 07:51 (WTG 01)
6	07:28	07:54 (WTG 02)	07:09	06:29	06:38				05:53	06:44 (WTG 01)	05:28	06:54 (WTG 01)
	16:46	29 08:23 (WTG 02)	17:22	17:56	19:31				20:03	78 08:02 (WTG 01)	20:31	57 07:51 (WTG 01)
7	07:28	07:55 (WTG 02)	07:07	06:28	06:36			07:29 (WTG 01)	05:52	06:44 (WTG 01)	05:28	06:55 (WTG 01)
	16:47	29 08:24 (WTG 02)	17:24	17:58	19:32		3	07:32 (WTG 01)	20:04	78 08:02 (WTG 01)	20:32	56 07:51 (WTG 01)
8	07:28	07:55 (WTG 02)	07:06	06:26	06:34				05:51	06:44 (WTG 01)	05:28	06:55 (WTG 01)
	16:48	29 08:24 (WTG 02)	17:25	17:59	19:33		23	07:41 (WTG 01)	20:05	78 08:02 (WTG 01)	20:33	56 07:51 (WTG 01)
9	07:27	07:55 (WTG 02)	07:05	06:25	06:33				05:50	06:43 (WTG 01)	05:27	06:55 (WTG 01)
	16:49	29 08:24 (WTG 02)	17:26	18:00	19:34		31	07:44 (WTG 01)	20:06	77 08:00 (WTG 01)	20:33	55 07:50 (WTG 01)
10	07:27	07:56 (WTG 02)	07:04	06:23	06:31				05:48	06:43 (WTG 01)	05:27	06:56 (WTG 01)
	16:50	29 08:25 (WTG 02)	17:27	18:01	19:35		37	07:48 (WTG 01)	20:07	77 08:00 (WTG 01)	20:34	54 07:50 (WTG 01)
11	07:27	07:57 (WTG 02)	07:03	06:21	06:29				05:47	06:43 (WTG 01)	05:27	06:56 (WTG 01)
	16:51	28 08:25 (WTG 02)	17:29	18:02	19:36		43	07:50 (WTG 01)	20:08	77 08:00 (WTG 01)	20:34	54 07:50 (WTG 01)
12	07:27	07:56 (WTG 02)	07:01	06:20	06:28				05:46	06:43 (WTG 01)	05:27	06:57 (WTG 01)
	16:52	29 08:25 (WTG 02)	17:30	18:03	19:37		47	07:51 (WTG 01)	20:09	77 08:00 (WTG 01)	20:35	53 07:50 (WTG 01)
13	07:26	07:57 (WTG 02)	07:00	06:18	06:26				05:45	06:43 (WTG 01)	05:27	06:57 (WTG 01)
	16:53	28 08:25 (WTG 02)	17:31	18:04	19:38		51	07:54 (WTG 01)	20:10	76 07:59 (WTG 01)	20:35	53 07:50 (WTG 01)
14	07:26	07:58 (WTG 02)	06:59	06:16	06:25				05:44	06:44 (WTG 01)	05:27	06:58 (WTG 01)
	16:54	28 08:26 (WTG 02)	17:32	18:06	19:39		54	07:54 (WTG 01)	20:11	75 07:59 (WTG 01)	20:36	52 07:50 (WTG 01)
15	07:26	07:59 (WTG 02)	06:58	06:15	06:23				05:43	06:44 (WTG 01)	05:27	06:58 (WTG 01)
	16:55	26 08:25 (WTG 02)	17:34	18:07	19:40		57	07:56 (WTG 01)	20:12	75 07:59 (WTG 01)	20:36	52 07:50 (WTG 01)
16	07:25	08:00 (WTG 02)	06:56	06:13	06:21				05:42	06:44 (WTG 01)	05:27	06:59 (WTG 01)
	16:56	26 08:26 (WTG 02)	17:35	18:08	19:42		60	07:57 (WTG 01)	20:13	74 07:58 (WTG 01)	20:37	51 07:50 (WTG 01)
17	07:25	08:00 (WTG 02)	06:55	06:11	06:20				05:41	06:45 (WTG 01)	05:27	06:59 (WTG 01)
	16:58	25 08:25 (WTG 02)	17:36	18:09	19:43		62	07:58 (WTG 01)	20:14	74 07:59 (WTG 01)	20:37	51 07:50 (WTG 01)
18	07:24	08:02 (WTG 02)	06:54	06:10	06:18				05:40	06:45 (WTG 01)	05:27	06:59 (WTG 01)
	16:59	24 08:26 (WTG 02)	17:37	18:10	19:44		65	07:59 (WTG 01)	20:15	73 07:58 (WTG 01)	20:37	51 07:50 (WTG 01)
19	07:24	08:02 (WTG 02)	06:52	06:08	06:17				05:39	06:45 (WTG 01)	05:27	06:59 (WTG 01)
	17:00	23 08:25 (WTG 02)	17:39	18:11	19:45		66	08:00 (WTG 01)	20:16	73 07:58 (WTG 01)	20:38	51 07:50 (WTG 01)
20	07:23	08:03 (WTG 02)	06:51	06:06	06:15				05:38	06:46 (WTG 01)	05:27	07:00 (WTG 01)
	17:01	21 08:24 (WTG 02)	17:40	18:12	19:46		68	08:00 (WTG 01)	20:17	71 07:57 (WTG 01)	20:38	51 07:51 (WTG 01)
21	07:23	08:05 (WTG 02)	06:49	06:05	06:14				05:38	06:46 (WTG 01)	05:27	07:00 (WTG 01)
	17:02	19 08:24 (WTG 02)	17:41	18:13	19:47		70	08:01 (WTG 01)	20:18	71 07:57 (WTG 01)	20:38	51 07:51 (WTG 01)
22	07:22	08:06 (WTG 02)	06:48	06:03	06:12				05:37	06:47 (WTG 01)	05:27	07:00 (WTG 01)
	17:04	17 08:23 (WTG 02)	17:42	18:14	19:48		71	08:01 (WTG 01)	20:19	70 07:57 (WTG 01)	20:38	51 07:51 (WTG 01)
23	07:21	08:08 (WTG 02)	06:46	06:01	06:11				05:36	06:47 (WTG 01)	05:28	07:00 (WTG 01)
	17:05	13 08:21 (WTG 02)	17:43	18:16	19:49		73	08:02 (WTG 01)	20:20	69 07:56 (WTG 01)	20:39	51 07:51 (WTG 01)
24	07:21	08:10 (WTG 02)	06:45	05:59	06:09				05:35	06:47 (WTG 01)	05:28	07:01 (WTG 01)
	17:06	9 08:19 (WTG 02)	17:45	18:17	19:50		73	08:01 (WTG 01)	20:21	69 07:56 (WTG 01)	20:39	51 07:52 (WTG 01)
25	07:20		06:43	05:58	06:08				05:34	06:48 (WTG 01)	05:28	07:01 (WTG 01)
	17:07		17:46	18:18	19:51		74	08:02 (WTG 01)	20:22	68 07:56 (WTG 01)	20:39	51 07:52 (WTG 01)
26	07:19		06:42	05:56	06:06				05:34	06:48 (WTG 01)	05:29	07:01 (WTG 01)
	17:08		17:47	18:19	19:52		76	08:03 (WTG 01)	20:23	67 07:55 (WTG 01)	20:39	51 07:52 (WTG 01)
27	07:18		06:40	05:54	06:05				05:33	06:48 (WTG 01)	05:29	07:01 (WTG 01)
	17:10		17:48	18:20	19:53		76	08:02 (WTG 01)	20:24	66 07:54 (WTG 01)	20:39	52 07:53 (WTG 01)
28	07:17		06:39	05:53	06:04				05:32	06:49 (WTG 01)	05:29	07:01 (WTG 01)
	17:11		17:49	18:21	19:55		76	08:02 (WTG 01)	20:25	65 07:54 (WTG 01)	20:39	52 07:53 (WTG 01)
29	07:17			06:51	06:02				05:32	06:50 (WTG 01)	05:30	07:01 (WTG 01)
	17:12			19:22	19:56		77	08:03 (WTG 01)	20:25	64 07:54 (WTG 01)	20:39	52 07:53 (WTG 01)
30	07:16			06:49	06:01				05:31	06:51 (WTG 01)	05:30	07:01 (WTG 01)
	17:13			19:23	19:57		77	08:02 (WTG 01)	20:26	63 07:54 (WTG 01)	20:39	53 07:54 (WTG 01)
31	07:15			06:48					05:31	06:51 (WTG 01)		
	17:15			19:24					20:27	62 07:53 (WTG 01)		
Ore potenziali eliofanìa	296		297	369	399				449		454	1611
Totale, caso peggiore	606				1410				2256			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 10 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (340)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	07:01 (WTG 01) 20:19	05:55 20:19	06:54 (WTG 01) 19:36	07:06 (WTG 01) 18:45	06:32 16:57
2	05:31 20:39	07:01 (WTG 01) 20:18	05:56 20:18	06:54 (WTG 01) 19:34	07:09 (WTG 01) 18:43	06:33 16:56
3	05:32 20:39	07:00 (WTG 01) 20:17	05:57 20:17	06:54 (WTG 01) 19:32	07:11 (WTG 01) 18:41	06:34 16:55
4	05:32 20:38	07:01 (WTG 01) 20:16	05:58 20:16	06:53 (WTG 01) 19:31	07:15 (WTG 01) 18:40	06:35 16:54
5	05:33 20:38	07:01 (WTG 01) 20:15	05:59 20:15	06:53 (WTG 01) 19:29	07:24 (WTG 01) 18:38	06:36 16:52
6	05:33 20:38	07:00 (WTG 01) 20:14	06:00 20:14	06:53 (WTG 01) 19:27	07:02 18:36	06:38 16:51
7	05:34 20:38	07:00 (WTG 01) 20:12	06:01 20:12	06:53 (WTG 01) 19:26	07:03 18:35	06:39 16:50
8	05:35 20:37	07:00 (WTG 01) 20:11	06:02 20:11	06:53 (WTG 01) 19:24	07:04 18:33	06:40 16:49
9	05:35 20:37	07:00 (WTG 01) 20:10	06:03 20:10	06:53 (WTG 01) 19:22	07:05 18:31	06:41 16:48
10	05:36 20:36	07:00 (WTG 01) 20:09	06:04 20:09	06:53 (WTG 01) 19:21	07:06 18:30	06:43 16:47
11	05:37 20:36	06:59 (WTG 01) 20:07	06:05 20:07	06:53 (WTG 01) 19:19	07:08 18:28	06:44 16:46
12	05:37 20:36	06:59 (WTG 01) 20:06	06:06 20:06	06:53 (WTG 01) 19:17	07:09 18:26	06:45 16:45
13	05:38 20:35	06:59 (WTG 01) 20:05	06:07 20:05	06:53 (WTG 01) 19:16	07:10 18:25	06:46 16:44
14	05:39 20:34	06:59 (WTG 01) 20:03	06:08 20:03	06:54 (WTG 01) 19:14	07:11 18:23	06:47 16:43
15	05:40 20:34	06:58 (WTG 01) 20:02	06:09 20:02	06:54 (WTG 01) 19:12	07:12 18:22	06:49 16:42
16	05:40 20:33	06:58 (WTG 01) 20:00	06:10 20:00	06:54 (WTG 01) 19:10	07:13 18:20	06:50 16:41
17	05:41 20:33	06:58 (WTG 01) 19:59	06:11 19:59	06:54 (WTG 01) 19:09	07:14 18:19	06:51 16:40
18	05:42 20:32	06:58 (WTG 01) 19:58	06:12 19:58	06:54 (WTG 01) 19:07	07:15 18:17	06:52 16:40
19	05:43 20:31	06:58 (WTG 01) 19:56	06:13 19:56	06:55 (WTG 01) 19:05	07:16 18:15	06:53 16:39
20	05:44 20:31	06:57 (WTG 01) 19:55	06:14 19:55	06:54 (WTG 01) 19:03	07:18 18:14	06:55 16:38
21	05:45 20:30	06:56 (WTG 01) 19:53	06:15 19:53	06:55 (WTG 01) 19:02	07:19 18:12	06:56 16:37
22	05:45 20:29	06:56 (WTG 01) 19:52	06:16 19:52	06:55 (WTG 01) 19:00	07:20 18:11	06:57 16:37
23	05:46 20:28	06:56 (WTG 01) 19:50	06:17 19:50	06:56 (WTG 01) 18:58	07:21 18:10	06:58 16:36
24	05:47 20:27	06:56 (WTG 01) 19:49	06:18 19:49	06:56 (WTG 01) 18:57	07:22 18:08	06:59 16:36
25	05:48 20:26	06:56 (WTG 01) 19:47	06:19 19:47	06:57 (WTG 01) 18:55	07:23 18:07	07:00 16:35
26	05:49 20:26	06:56 (WTG 01) 19:45	06:20 19:45	06:58 (WTG 01) 18:53	07:24 18:05	07:01 16:35
27	05:50 20:25	06:55 (WTG 01) 19:44	06:21 19:44	06:59 (WTG 01) 18:51	07:25 18:04	07:03 16:34
28	05:51 20:24	06:54 (WTG 01) 19:42	06:22 19:42	07:00 (WTG 01) 18:50	07:26 18:03	07:04 16:34
29	05:52 20:23	06:54 (WTG 01) 19:41	06:23 19:41	07:01 (WTG 01) 18:48	07:27 18:02	07:05 16:33
30	05:53 20:22	06:54 (WTG 01) 19:39	06:24 19:39	07:03 (WTG 01) 18:46	07:28 18:01	07:06 16:33
31	05:54 20:21	06:54 (WTG 01) 19:37	06:25 19:37	07:04 (WTG 01) 18:44	07:29 18:00	07:07 16:33
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	2020	2205	139			883

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 11 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (308)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile		Maggio		Giugno
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25		06:00 19:58		06:45 (WTG 01) 07:56 (WTG 01)
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26		05:58 19:59	80	06:42 (WTG 01) 07:56 (WTG 01)
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:28		05:57 20:00	80	06:41 (WTG 01) 07:56 (WTG 01)
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29		05:56 20:01	81	06:40 (WTG 01) 07:56 (WTG 01)
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30		05:54 20:02	82	06:40 (WTG 01) 07:55 (WTG 01)
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31		05:53 20:03	82	06:40 (WTG 01) 07:55 (WTG 01)
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32		05:52 20:04	82	06:40 (WTG 01) 07:55 (WTG 01)
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33		05:51 20:05	82	06:40 (WTG 01) 07:55 (WTG 01)
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	11	07:22 (WTG 01) 07:33 (WTG 01)	82	06:39 (WTG 01) 07:55 (WTG 01)
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	25	07:15 (WTG 01) 07:40 (WTG 01)	82	06:39 (WTG 01) 07:55 (WTG 01)
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	33	07:10 (WTG 01) 07:43 (WTG 01)	82	06:39 (WTG 01) 07:55 (WTG 01)
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	40	07:06 (WTG 01) 07:46 (WTG 01)	82	06:39 (WTG 01) 07:55 (WTG 01)
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	45	07:04 (WTG 01) 07:49 (WTG 01)	82	06:39 (WTG 01) 07:55 (WTG 01)
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	49	07:01 (WTG 01) 07:50 (WTG 01)	81	06:39 (WTG 01) 07:55 (WTG 01)
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	52	07:00 (WTG 01) 07:52 (WTG 01)	81	06:39 (WTG 01) 07:55 (WTG 01)
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	56	06:57 (WTG 01) 07:53 (WTG 01)	81	06:39 (WTG 01) 07:55 (WTG 01)
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	59	06:56 (WTG 01) 07:55 (WTG 01)	81	06:40 (WTG 01) 07:55 (WTG 01)
18	07:24 16:59	06:54 17:37	06:10 18:10	06:18 19:44	62	06:54 (WTG 01) 07:56 (WTG 01)	80	06:40 (WTG 01) 07:55 (WTG 01)
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	64	06:53 (WTG 01) 07:57 (WTG 01)	80	06:41 (WTG 01) 07:55 (WTG 01)
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	67	06:51 (WTG 01) 07:58 (WTG 01)	79	06:41 (WTG 01) 07:56 (WTG 01)
21	07:23 17:02	06:49 17:41	06:05 18:13	06:14 19:47	69	06:50 (WTG 01) 07:59 (WTG 01)	78	06:41 (WTG 01) 07:56 (WTG 01)
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	70	06:49 (WTG 01) 07:59 (WTG 01)	78	06:42 (WTG 01) 07:56 (WTG 01)
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 19:49	72	06:48 (WTG 01) 08:00 (WTG 01)	77	06:42 (WTG 01) 07:56 (WTG 01)
24	07:21 17:06	06:45 17:44	05:59 18:17	06:09 19:50	74	06:46 (WTG 01) 08:00 (WTG 01)	76	06:42 (WTG 01) 07:57 (WTG 01)
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	75	06:46 (WTG 01) 08:01 (WTG 01)	76	06:43 (WTG 01) 07:57 (WTG 01)
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	76	06:45 (WTG 01) 08:01 (WTG 01)	75	06:43 (WTG 01) 07:57 (WTG 01)
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	77	06:44 (WTG 01) 08:01 (WTG 01)	75	06:43 (WTG 01) 07:58 (WTG 01)
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	78	06:44 (WTG 01) 08:02 (WTG 01)	74	06:44 (WTG 01) 07:58 (WTG 01)
29	07:17 17:12		06:51 19:22	06:02 19:56	79	06:43 (WTG 01) 08:02 (WTG 01)	74	06:43 (WTG 01) 07:58 (WTG 01)
30	07:16 17:13		06:49 19:23	06:01 19:57	80	06:42 (WTG 01) 08:02 (WTG 01)	74	06:44 (WTG 01) 07:59 (WTG 01)
31	07:15 17:15		06:48 19:24			05:31 20:27	73	06:44 (WTG 01) 07:56 (WTG 01)
Ore potenziali eliofania	296	297	369	399		449		454
Totale, caso peggiore				1313		2444		1978

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 11 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (308)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:31 20:39 66	06:53 (WTG 01) 07:59 (WTG 01) 06:54 (WTG 01)	05:55 20:19 81	06:50 (WTG 01) 08:11 (WTG 01) 06:50 (WTG 01)	06:26 19:36 33	07:09 (WTG 01) 07:42 (WTG 01) 07:13 (WTG 01)	06:57 18:45 06:58	06:32 16:57 06:33	07:07 16:32 07:08
2	05:31 20:39 66	06:53 (WTG 01) 08:00 (WTG 01) 06:53 (WTG 01)	05:57 20:18 82	06:50 (WTG 01) 08:12 (WTG 01) 06:50 (WTG 01)	06:28 19:34 25	07:19 (WTG 01) 07:38 (WTG 01) 07:19 (WTG 01)	06:59 18:43 06:59	06:34 16:56 06:34	07:09 16:32 07:09
3	05:32 20:39 67	08:00 (WTG 01) 06:53 (WTG 01) 08:00 (WTG 01)	20:17 05:58 82	06:50 (WTG 01) 08:12 (WTG 01) 06:50 (WTG 01)	19:32 06:29 12	07:31 (WTG 01)	18:41 07:00 18:40	16:55 06:35 16:54	16:32 07:10 16:32
4	05:32 20:38 68	06:53 (WTG 01) 08:01 (WTG 01) 06:54 (WTG 01)	05:58 20:16 82	06:50 (WTG 01) 08:12 (WTG 01) 06:50 (WTG 01)	06:29 19:31 06:30		18:41 18:40 07:01	16:55 06:36 16:52	16:32 07:11 16:32
5	05:33 20:38 67	08:01 (WTG 01) 06:53 (WTG 01) 08:01 (WTG 01)	20:15 06:00 82	08:12 (WTG 01) 06:50 (WTG 01) 08:12 (WTG 01)	19:29 06:31 19:27		18:38 07:02 18:36	16:52 06:38 16:51	16:32 07:12 16:31
6	05:33 20:38 68	06:53 (WTG 01) 08:01 (WTG 01) 06:54 (WTG 01)	06:00 20:14 82	06:50 (WTG 01) 08:12 (WTG 01) 06:50 (WTG 01)	06:31 19:27 06:32		18:36 07:03 18:35	16:51 06:39 16:50	16:31 07:13 16:31
7	05:34 20:38 68	06:54 (WTG 01) 08:02 (WTG 01) 06:53 (WTG 01)	06:01 20:12 82	06:50 (WTG 01) 08:12 (WTG 01) 06:50 (WTG 01)	06:32 19:26 06:33		18:35 07:04 18:33	16:50 06:40 16:49	16:31 07:14 16:31
8	05:35 20:37 69	08:02 (WTG 01) 06:53 (WTG 01) 08:02 (WTG 01)	06:02 20:11 82	06:50 (WTG 01) 08:12 (WTG 01) 06:50 (WTG 01)	06:33 19:24 06:34		18:33 07:05 18:31	16:49 06:41 16:48	16:31 07:15 16:31
9	05:35 20:37 70	06:53 (WTG 01) 08:03 (WTG 01) 06:53 (WTG 01)	06:03 20:10 81	06:50 (WTG 01) 08:11 (WTG 01) 06:50 (WTG 01)	06:34 19:22 06:35		18:31 07:06 18:30	16:48 06:43 16:47	16:31 07:16 16:31
10	05:36 20:36 71	06:53 (WTG 01) 08:04 (WTG 01) 06:52 (WTG 01)	06:04 20:09 81	06:50 (WTG 01) 08:11 (WTG 01) 06:51 (WTG 01)	06:35 19:21 06:36		18:30 07:08 18:28	16:47 06:44 16:46	16:31 07:17 16:31
11	05:37 20:36 71	08:03 (WTG 01) 06:53 (WTG 01) 08:04 (WTG 01)	20:07 06:06 80	08:11 (WTG 01) 06:51 (WTG 01) 08:11 (WTG 01)	19:19 06:37 19:17		18:28 07:09 18:26	16:46 06:45 16:45	16:31 07:17 16:31
12	05:37 20:36 71	06:53 (WTG 01) 08:04 (WTG 01) 06:53 (WTG 01)	06:06 20:06 80	06:51 (WTG 01) 08:11 (WTG 01) 06:51 (WTG 01)	06:37 19:17 06:38		18:26 07:10 18:25	16:45 06:46 16:44	16:31 07:18 16:32
13	05:38 20:35 72	06:53 (WTG 01) 08:05 (WTG 01) 06:53 (WTG 01)	06:07 20:05 79	06:51 (WTG 01) 08:10 (WTG 01) 06:51 (WTG 01)	06:38 19:16 06:39		18:25 07:11 18:23	16:44 06:47 16:43	16:32 07:19 16:32
14	05:39 20:34 73	08:06 (WTG 01) 06:52 (WTG 01) 08:05 (WTG 01)	20:03 06:09 77	08:10 (WTG 01) 06:52 (WTG 01) 08:09 (WTG 01)	19:14 06:40 19:12		18:23 07:12 18:22	16:43 06:49 16:42	16:32 07:20 16:32
15	05:40 20:34 73	06:52 (WTG 01) 08:05 (WTG 01) 06:52 (WTG 01)	06:09 20:02 77	06:52 (WTG 01) 08:09 (WTG 01) 06:52 (WTG 01)	06:40 19:12 06:41		18:22 07:13 18:20	16:42 06:50 16:41	16:32 07:21 16:32
16	05:40 20:33 74	08:06 (WTG 01) 06:52 (WTG 01) 08:06 (WTG 01)	06:10 20:00 77	06:52 (WTG 01) 08:09 (WTG 01) 06:52 (WTG 01)	06:41 19:10 06:42		18:20 07:14 18:19	16:41 06:51 16:40	16:32 07:21 16:32
17	05:41 20:33 75	06:52 (WTG 01) 08:07 (WTG 01) 06:52 (WTG 01)	06:11 19:59 76	06:52 (WTG 01) 08:08 (WTG 01) 06:53 (WTG 01)	06:42 19:09 06:43		18:19 07:15 18:17	16:40 06:52 16:40	16:32 07:22 16:33
18	05:42 20:32 75	08:07 (WTG 01) 06:52 (WTG 01) 08:07 (WTG 01)	06:12 19:58 74	06:53 (WTG 01) 08:07 (WTG 01) 06:53 (WTG 01)	06:43 19:07 06:44		18:17 07:16 18:15	16:40 06:53 16:39	16:33 07:22 16:33
19	05:43 20:31 76	06:52 (WTG 01) 08:08 (WTG 01) 06:51 (WTG 01)	06:13 19:56 73	06:53 (WTG 01) 08:06 (WTG 01) 06:53 (WTG 01)	06:44 19:05 06:45		18:16 18:15 07:18	16:39 16:39 06:55	16:33 16:33 07:23
20	05:44 20:31 77	08:08 (WTG 01) 06:51 (WTG 01) 08:08 (WTG 01)	06:14 19:55 71	06:53 (WTG 01) 08:04 (WTG 01) 06:53 (WTG 01)	06:45 19:03 06:46		18:15 18:14 07:19	16:38 16:38 06:56	16:34 16:34 07:24
21	05:45 20:30 77	06:51 (WTG 01) 08:08 (WTG 01) 06:51 (WTG 01)	06:15 19:53 70	06:53 (WTG 01) 08:03 (WTG 01) 06:54 (WTG 01)	06:46 19:02 06:47		18:14 18:12 07:20	16:37 16:37 06:57	16:34 16:34 07:24
22	05:45 20:29 78	08:09 (WTG 01) 06:51 (WTG 01) 08:09 (WTG 01)	06:16 19:52 68	06:54 (WTG 01) 08:02 (WTG 01) 06:55 (WTG 01)	06:47 19:00 06:48		18:13 18:11 07:21	16:37 16:37 06:58	16:34 16:34 07:25
23	05:46 20:28 78	06:51 (WTG 01) 08:09 (WTG 01) 06:51 (WTG 01)	06:17 19:50 66	06:55 (WTG 01) 08:01 (WTG 01) 06:56 (WTG 01)	06:48 18:58 06:50		18:10 18:08 07:22	16:36 16:36 06:59	16:35 16:35 07:25
24	05:47 20:27 79	08:10 (WTG 01) 06:51 (WTG 01) 08:10 (WTG 01)	19:49 06:18 64	08:00 (WTG 01) 06:57 (WTG 01) 07:58 (WTG 01)	18:57 06:51 18:55		18:08 18:07 17:07	16:36 07:00 16:35	16:36 07:25 16:36
25	05:48 20:26 79	06:51 (WTG 01) 08:10 (WTG 01) 06:51 (WTG 01)	06:19 19:47 61	06:57 (WTG 01) 07:58 (WTG 01) 06:58 (WTG 01)	06:51 18:55 06:52		17:07 17:06 06:24	16:35 16:35 07:01	16:36 16:36 07:26
26	05:49 20:26 80	06:51 (WTG 01) 08:11 (WTG 01) 06:50 (WTG 01)	06:20 19:45 59	06:58 (WTG 01) 07:57 (WTG 01) 06:59 (WTG 01)	06:52 18:53 06:53		17:05 17:05 06:26	16:35 16:35 07:03	16:37 16:37 07:26
27	05:50 20:25 80	08:10 (WTG 01) 06:50 (WTG 01) 08:10 (WTG 01)	06:21 19:44 56	06:59 (WTG 01) 07:55 (WTG 01) 07:01 (WTG 01)	06:53 18:51 06:54		17:04 17:04 06:27	16:34 16:34 07:04	16:38 16:38 07:27
28	05:51 20:24 80	06:50 (WTG 01) 08:10 (WTG 01) 06:50 (WTG 01)	06:22 19:42 52	07:01 (WTG 01) 07:53 (WTG 01) 07:02 (WTG 01)	06:54 18:50 06:55		17:03 17:03 06:28	16:34 16:34 07:05	16:38 16:38 07:27
29	05:52 20:23 81	06:50 (WTG 01) 08:11 (WTG 01) 06:50 (WTG 01)	06:23 19:41 49	07:02 (WTG 01) 07:51 (WTG 01) 07:04 (WTG 01)	06:55 18:48 06:56		17:02 17:01 06:29	16:33 16:33 07:06	16:39 16:39 07:27
30	05:53 20:22 81	06:50 (WTG 01) 08:11 (WTG 01) 06:50 (WTG 01)	06:24 19:39 45	07:04 (WTG 01) 07:49 (WTG 01) 07:07 (WTG 01)	06:56 18:46 06:57		17:00 17:00 06:30	16:33 16:33 07:07	16:40 16:40 07:27
31	05:54 20:21 81	06:50 (WTG 01) 08:11 (WTG 01) 06:50 (WTG 01)	06:25 19:37 39	07:07 (WTG 01) 07:46 (WTG 01) 06:57 (WTG 01)	06:57 18:46 06:58		17:00 16:59 06:30	16:33 16:33 07:07	16:40 16:40 07:27
Ore potenziali eliofania	460	429	375	345	297	286			
Totale, caso peggiore	2291	2212	70						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 12 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (311)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:28 16:41	07:14 17:16	06:37 17:51	15:30 (WTG 01) 16:42 (WTG 01)	06:46 19:25	05:59 19:58
2	07:28 16:42	07:13 17:17	06:36 17:52	15:30 (WTG 01) 16:42 (WTG 01)	06:44 19:26	05:58 19:59
3	07:28 16:43	07:12 17:19	06:34 17:53	15:30 (WTG 01) 16:41 (WTG 01)	06:43 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	16:00 (WTG 01) 06:33 17:54	15:31 (WTG 01) 16:42 (WTG 01)	06:41 19:29	05:56 20:01
5	07:28 16:45	07:10 17:21	15:55 (WTG 01) 16:18 (WTG 01)	06:31 17:55	15:31 (WTG 01) 16:41 (WTG 01)	06:39 19:30
6	07:28 16:46	07:09 17:22	15:51 (WTG 01) 16:21 (WTG 01)	06:29 17:56	15:31 (WTG 01) 16:40 (WTG 01)	06:38 19:31
7	07:28 16:47	07:07 17:24	15:49 (WTG 01) 16:24 (WTG 01)	06:28 17:58	15:32 (WTG 01) 16:40 (WTG 01)	06:36 19:32
8	07:28 16:48	07:06 17:25	15:47 (WTG 01) 16:26 (WTG 01)	06:26 17:59	15:32 (WTG 01) 16:39 (WTG 01)	06:34 19:33
9	07:27 16:49	07:05 17:26	15:45 (WTG 01) 16:28 (WTG 01)	06:25 18:00	15:32 (WTG 01) 16:38 (WTG 01)	06:33 19:34
10	07:27 16:50	07:04 17:27	15:44 (WTG 01) 16:30 (WTG 01)	06:23 18:01	15:33 (WTG 01) 16:38 (WTG 01)	06:31 19:35
11	07:27 16:51	07:03 17:29	15:41 (WTG 01) 16:31 (WTG 01)	06:21 18:02	15:33 (WTG 01) 16:37 (WTG 01)	06:29 19:36
12	07:27 16:52	07:01 17:30	15:40 (WTG 01) 16:33 (WTG 01)	06:20 18:03	15:34 (WTG 01) 16:35 (WTG 01)	06:28 19:37
13	07:26 16:53	07:00 17:31	15:39 (WTG 01) 16:34 (WTG 01)	06:18 18:04	15:35 (WTG 01) 16:35 (WTG 01)	06:26 19:38
14	07:26 16:54	06:59 17:32	15:38 (WTG 01) 16:35 (WTG 01)	06:16 18:06	15:36 (WTG 01) 16:33 (WTG 01)	06:25 19:39
15	07:26 16:55	06:58 17:34	15:37 (WTG 01) 16:36 (WTG 01)	06:15 18:07	15:37 (WTG 01) 16:32 (WTG 01)	06:23 19:40
16	07:25 16:56	06:56 17:35	15:36 (WTG 01) 16:38 (WTG 01)	06:13 18:08	15:39 (WTG 01) 16:31 (WTG 01)	06:21 19:42
17	07:25 16:58	06:55 17:36	15:35 (WTG 01) 16:38 (WTG 01)	06:11 18:09	15:40 (WTG 01) 16:29 (WTG 01)	06:20 19:43
18	07:24 16:59	06:53 17:37	15:35 (WTG 01) 16:39 (WTG 01)	06:10 18:10	15:41 (WTG 01) 16:27 (WTG 01)	06:18 19:44
19	07:24 17:00	06:52 17:39	15:34 (WTG 01) 16:40 (WTG 01)	06:08 18:11	15:44 (WTG 01) 16:26 (WTG 01)	06:17 19:45
20	07:23 17:01	06:51 17:40	15:33 (WTG 01) 16:40 (WTG 01)	06:06 18:12	15:45 (WTG 01) 16:23 (WTG 01)	06:15 19:46
21	07:23 17:02	06:49 17:41	15:33 (WTG 01) 16:41 (WTG 01)	06:04 18:13	15:47 (WTG 01) 16:20 (WTG 01)	06:14 19:47
22	07:22 17:04	06:48 17:42	15:32 (WTG 01) 16:41 (WTG 01)	06:03 18:14	15:50 (WTG 01) 16:17 (WTG 01)	06:12 19:48
23	07:21 17:05	06:46 17:43	15:32 (WTG 01) 16:42 (WTG 01)	06:01 18:16	15:55 (WTG 01) 16:13 (WTG 01)	06:11 19:49
24	07:21 17:06	06:45 17:45	15:31 (WTG 01) 16:42 (WTG 01)	05:59 18:17	16:09 19:50	05:35 20:21
25	07:20 17:07	06:43 17:46	15:31 (WTG 01) 16:42 (WTG 01)	05:58 18:18	16:08 19:51	05:34 20:22
26	07:19 17:08	06:42 17:47	15:31 (WTG 01) 16:42 (WTG 01)	05:56 18:19	16:06 19:52	05:34 20:23
27	07:18 17:10	06:40 17:48	15:31 (WTG 01) 16:43 (WTG 01)	05:54 18:20	16:05 19:53	05:33 20:24
28	07:17 17:11	06:39 17:49	15:30 (WTG 01) 16:42 (WTG 01)	05:53 18:21	16:04 19:55	05:32 20:25
29	07:17 17:12		06:51 19:22		06:02 19:56	05:32 20:25
30	07:16 17:13		06:49 19:23		06:01 19:57	05:31 20:26
31	07:15 17:15		06:48 19:24		05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		1389	1293			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 12 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (311)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre				
1	05:31	05:55	06:26	06:57	16:14 (WTG 01)	06:32	15:13 (WTG 01)	07:07		
	20:39	20:19	19:36	18:45	61	17:15 (WTG 01)	16:57	46	15:59 (WTG 01)	16:32
2	05:31	05:56	06:27	06:58		16:12 (WTG 01)	16:33		15:15 (WTG 01)	07:08
	20:39	20:18	19:34	18:43	63	17:15 (WTG 01)	16:56	43	15:58 (WTG 01)	16:32
3	05:32	05:57	06:28	06:59		16:11 (WTG 01)	16:34		15:17 (WTG 01)	07:09
	20:38	20:17	19:32	18:41	64	17:15 (WTG 01)	16:55	39	15:56 (WTG 01)	16:32
4	05:32	05:58	06:29	07:00		16:10 (WTG 01)	16:35		15:19 (WTG 01)	07:10
	20:38	20:16	19:31	18:40	65	17:15 (WTG 01)	16:54	34	15:53 (WTG 01)	16:32
5	05:33	05:59	06:30	07:01		16:09 (WTG 01)	16:36		15:21 (WTG 01)	07:11
	20:38	20:15	19:29	18:38	67	17:16 (WTG 01)	16:52	29	15:50 (WTG 01)	16:31
6	05:33	06:00	06:31	07:02		16:08 (WTG 01)	16:38		15:26 (WTG 01)	07:12
	20:38	20:14	19:27	18:36	68	17:16 (WTG 01)	16:51	21	15:47 (WTG 01)	16:31
7	05:34	06:01	06:32	07:03		16:07 (WTG 01)	16:39		15:31 (WTG 01)	07:13
	20:38	20:12	19:26	18:35	69	17:16 (WTG 01)	16:50	11	15:42 (WTG 01)	16:31
8	05:34	06:02	06:33	07:04		16:07 (WTG 01)	16:40			07:14
	20:37	20:11	19:24	18:33	69	17:16 (WTG 01)	16:49			16:31
9	05:35	06:03	06:34	07:05		16:06 (WTG 01)	16:41			07:15
	20:37	20:10	19:22	18:31	70	17:16 (WTG 01)	16:48			16:31
10	05:36	06:04	06:35	07:06		16:05 (WTG 01)	16:42			07:16
	20:36	20:09	19:21	18:30	71	17:16 (WTG 01)	16:47			16:31
11	05:37	06:05	06:36	07:07		16:04 (WTG 01)	16:44			07:17
	20:36	20:07	19:19	18:28	72	17:16 (WTG 01)	16:46			16:31
12	05:37	06:06	06:37	07:09		16:04 (WTG 01)	16:45			07:17
	20:36	20:06	19:17	18:26	71	17:15 (WTG 01)	16:45			16:31
13	05:38	06:07	06:38	07:10		16:03 (WTG 01)	16:46			07:18
	20:35	20:05	19:16	18:25	72	17:15 (WTG 01)	16:44			16:31
14	05:39	06:08	06:39	07:11		16:03 (WTG 01)	16:47			07:19
	20:34	20:03	19:14	18:23	71	17:14 (WTG 01)	16:43			16:32
15	05:40	06:09	06:40	07:12		16:02 (WTG 01)	16:49			07:20
	20:34	20:02	19:12	18:22	72	17:14 (WTG 01)	16:42			16:32
16	05:40	06:10	06:41	07:13		16:03 (WTG 01)	16:50			07:20
	20:33	20:00	19:10	18:20	71	17:14 (WTG 01)	16:41			16:32
17	05:41	06:11	06:42	07:14		16:03 (WTG 01)	16:51			07:21
	20:33	19:59	19:09	18:18	71	17:14 (WTG 01)	16:40			16:32
18	05:42	06:12	06:43	07:15		16:03 (WTG 01)	16:52			07:22
	20:32	19:58	19:07	18:17	70	17:13 (WTG 01)	16:40			16:33
19	05:43	06:13	06:44	07:16		16:03 (WTG 01)	16:53			07:22
	20:31	19:56	19:05	18:15	69	17:12 (WTG 01)	16:39			16:33
20	05:44	06:14	06:45	16:43 (WTG 01)	07:18	16:03 (WTG 01)	16:55			07:23
	20:31	19:55	19:03	15	16:58 (WTG 01)	18:14	68	17:11 (WTG 01)	16:38	16:34
21	05:45	06:15	06:46	16:38 (WTG 01)	07:19	16:04 (WTG 01)	16:56			07:24
	20:30	19:53	19:02	24	17:02 (WTG 01)	18:12	68	17:12 (WTG 01)	16:37	16:34
22	05:45	06:16	06:47	16:34 (WTG 01)	07:20	16:04 (WTG 01)	16:57			07:24
	20:29	19:52	19:00	31	17:05 (WTG 01)	18:11	67	17:11 (WTG 01)	16:37	16:34
23	05:46	06:17	06:48	16:30 (WTG 01)	07:21	16:04 (WTG 01)	16:58			07:25
	20:28	19:50	18:58	37	17:07 (WTG 01)	18:09	66	17:10 (WTG 01)	16:36	16:35
24	05:47	06:18	06:49	16:28 (WTG 01)	07:22	16:04 (WTG 01)	16:59			07:25
	20:27	19:49	18:57	41	17:09 (WTG 01)	18:08	64	17:08 (WTG 01)	16:36	16:36
25	05:48	06:19	06:51	16:25 (WTG 01)	06:23	15:05 (WTG 01)	07:00			07:25
	20:26	19:47	18:55	45	17:10 (WTG 01)	17:07	62	16:07 (WTG 01)	16:35	16:36
26	05:49	06:20	06:52	16:23 (WTG 01)	06:24	15:06 (WTG 01)	07:01			07:26
	20:25	19:45	18:53	48	17:11 (WTG 01)	17:05	61	16:07 (WTG 01)	16:34	16:37
27	05:50	06:21	06:53	16:21 (WTG 01)	06:26	15:07 (WTG 01)	07:03			07:26
	20:25	19:44	18:51	51	17:12 (WTG 01)	17:04	59	16:06 (WTG 01)	16:34	16:37
28	05:51	06:22	06:54	16:19 (WTG 01)	06:27	15:08 (WTG 01)	07:04			07:27
	20:24	19:42	18:50	54	17:13 (WTG 01)	17:03	56	16:04 (WTG 01)	16:34	16:38
29	05:52	06:23	06:55	16:17 (WTG 01)	06:28	15:09 (WTG 01)	07:05			07:27
	20:23	19:41	18:48	57	17:14 (WTG 01)	17:01	55	16:04 (WTG 01)	16:33	16:39
30	05:53	06:24	06:56	16:15 (WTG 01)	06:29	15:10 (WTG 01)	07:06			07:27
	20:22	19:39	18:46	59	17:14 (WTG 01)	17:00	52	16:02 (WTG 01)	16:33	16:40
31	05:54	06:25			06:30	15:11 (WTG 01)				07:27
	20:21	19:37			16:59	16:01 (WTG 01)				16:40
Ore potenziali eliofania	460	429	375	345	2034	297	223			286
Totale, caso peggiore			462							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 13 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (341)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:28 16:41	07:14 17:16	06:37 17:51	15:46 (WTG 01) 16:50 (WTG 01)	06:46 19:25	16:57 (WTG 01) 17:29 (WTG 01)	05:59 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	15:45 (WTG 01) 16:51 (WTG 01)	06:44 19:26	17:01 (WTG 01) 17:26 (WTG 01)	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	15:44 (WTG 01) 16:51 (WTG 01)	06:43 19:27	17:05 (WTG 01) 17:21 (WTG 01)	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	15:44 (WTG 01) 16:52 (WTG 01)	06:41 19:29		05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	15:43 (WTG 01) 16:52 (WTG 01)	06:39 19:30		05:54 20:02	05:28 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56	15:42 (WTG 01) 16:52 (WTG 01)	06:38 19:31		05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	15:42 (WTG 01) 16:53 (WTG 01)	06:36 19:32		05:52 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59	15:42 (WTG 01) 16:53 (WTG 01)	06:34 19:33		05:51 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00	15:41 (WTG 01) 16:52 (WTG 01)	06:33 19:34		05:50 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	15:41 (WTG 01) 16:53 (WTG 01)	06:31 19:35		05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	15:41 (WTG 01) 16:52 (WTG 01)	06:29 19:36		05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	15:40 (WTG 01) 16:52 (WTG 01)	06:28 19:37		05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	15:41 (WTG 01) 16:52 (WTG 01)	06:26 19:38		05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	15:41 (WTG 01) 16:52 (WTG 01)	06:25 19:39		05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	15:40 (WTG 01) 16:51 (WTG 01)	06:23 19:40		05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	15:41 (WTG 01) 16:51 (WTG 01)	06:21 19:42		05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	15:41 (WTG 01) 16:50 (WTG 01)	06:20 19:43		05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	15:41 (WTG 01) 16:49 (WTG 01)	06:18 19:44		05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	15:42 (WTG 01) 16:49 (WTG 01)	06:17 19:45		05:39 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	15:43 (WTG 01) 16:48 (WTG 01)	06:15 19:46		05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	15:43 (WTG 01) 16:47 (WTG 01)	06:14 19:47		05:37 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	15:43 (WTG 01) 16:46 (WTG 01)	06:12 19:48		05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:16	15:45 (WTG 01) 16:45 (WTG 01)	06:11 19:49		05:36 20:20	05:28 20:39
24	07:21 17:06	06:45 17:44	05:59 18:17	15:45 (WTG 01) 16:44 (WTG 01)	06:09 19:50		05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	15:46 (WTG 01) 16:44 (WTG 01)	06:08 19:51		05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	15:48 (WTG 01) 16:42 (WTG 01)	06:06 19:52		05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	15:49 (WTG 01) 16:40 (WTG 01)	06:05 19:53		05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	15:50 (WTG 01) 16:38 (WTG 01)	06:04 19:55		05:32 20:25	05:29 20:39
29	07:17 17:12		06:51 19:22	16:52 (WTG 01) 17:37 (WTG 01)	06:02 19:56		05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	16:54 (WTG 01) 17:34 (WTG 01)	06:01 19:57		05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24	16:55 (WTG 01) 17:32 (WTG 01)			05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454		
Totale, caso peggiore		565	1961	73				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 13 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (341)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre	Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45		16:20 (WTG 01) 17:31 (WTG 01)	06:32 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	71	16:19 (WTG 01) 17:31 (WTG 01)	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41	72	16:19 (WTG 01) 17:31 (WTG 01)	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31		07:00 18:40	72	16:18 (WTG 01) 17:30 (WTG 01)	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29		07:01 18:38	71	16:18 (WTG 01) 17:29 (WTG 01)	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27		07:02 18:36	71	16:18 (WTG 01) 17:29 (WTG 01)	06:38 16:51	07:12 16:31
7	05:34 20:38	06:01 20:12	06:32 19:26		07:03 18:35	70	16:18 (WTG 01) 17:28 (WTG 01)	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24		07:04 18:33	69	16:19 (WTG 01) 17:28 (WTG 01)	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22		07:05 18:31	68	16:19 (WTG 01) 17:27 (WTG 01)	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	14	07:06 18:30	67	16:19 (WTG 01) 17:26 (WTG 01)	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	24	07:07 18:28	66	16:19 (WTG 01) 17:25 (WTG 01)	06:44 16:46	07:17 16:31
12	05:37 20:36	06:06 20:06	06:37 19:17	30	07:09 18:26	65	16:19 (WTG 01) 17:24 (WTG 01)	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	36	07:10 18:25	64	16:19 (WTG 01) 17:23 (WTG 01)	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	40	07:11 18:23	62	16:20 (WTG 01) 17:22 (WTG 01)	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	44	07:12 18:22	60	16:20 (WTG 01) 17:20 (WTG 01)	06:49 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	48	07:13 18:20	58	16:22 (WTG 01) 17:20 (WTG 01)	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	51	07:14 18:18	55	16:23 (WTG 01) 17:18 (WTG 01)	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	54	07:15 18:17	53	16:24 (WTG 01) 17:17 (WTG 01)	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	55	07:16 18:15	50	16:25 (WTG 01) 17:15 (WTG 01)	06:53 16:39	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	58	07:18 18:14	47	16:26 (WTG 01) 17:13 (WTG 01)	06:55 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	60	07:19 18:12	42	16:29 (WTG 01) 17:11 (WTG 01)	06:56 16:37	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	62	07:20 18:11	39	16:30 (WTG 01) 17:09 (WTG 01)	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	63	07:21 18:09	33	16:33 (WTG 01) 17:06 (WTG 01)	06:58 16:36	07:25 16:35
24	05:47 20:27	06:18 19:49	06:49 18:57	65	07:22 18:08	26	16:36 (WTG 01) 17:02 (WTG 01)	06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	67	07:23 18:07	18	16:35 (WTG 01) 15:58 (WTG 01)	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	68	07:24 18:05			07:01 16:34	07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	69	07:25 18:04			07:03 16:34	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	70	07:26 18:03			07:04 16:34	07:27 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	70	07:28 18:02			07:05 16:33	07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	71	06:29 17:00			07:06 16:33	07:27 16:40
31	05:54 20:21	06:25 19:37		71	06:30 16:59				07:27 16:40
Ore potenziali eliofania	460	429	375		345			297	286
Totale, caso peggiore				1190		1441			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 14 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (312)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno				
1	07:28	07:14	06:37	15:38 (WTG 01)	06:46	05:59	05:30			
	16:41	17:16	17:51	61	16:39 (WTG 01)	19:25	19:58	20:28		
2	07:28	07:13	06:36	15:38 (WTG 01)	06:44	05:58	05:30			
	16:42	17:17	17:52	62	16:40 (WTG 01)	19:26	19:59	20:28		
3	07:28	07:12	06:34	15:38 (WTG 01)	06:43	05:57	05:29			
	16:43	17:18	17:53	61	16:39 (WTG 01)	19:27	20:00	20:29		
4	07:28	07:11	06:33	15:39 (WTG 01)	06:41	05:56	05:29			
	16:44	17:20	17:54	60	16:39 (WTG 01)	19:29	20:01	20:30		
5	07:28	07:10	06:31	15:39 (WTG 01)	06:39	05:54	05:28			
	16:45	17:21	17:55	59	16:38 (WTG 01)	19:30	20:02	20:31		
6	07:28	07:09	06:29	15:39 (WTG 01)	06:38	05:53	05:28			
	16:46	17:22	17:56	58	16:37 (WTG 01)	19:31	20:03	20:31		
7	07:28	07:07	16:01 (WTG 01)	06:28	15:40 (WTG 01)	06:36	05:52	05:28		
	16:47	17:24	16	16:17 (WTG 01)	17:58	57	16:37 (WTG 01)	19:32	20:04	20:32
8	07:28	07:06	15:58 (WTG 01)	06:26	15:40 (WTG 01)	06:34	05:51	05:28		
	16:48	17:25	23	16:21 (WTG 01)	17:59	56	16:36 (WTG 01)	19:33	20:05	20:33
9	07:27	07:05	15:55 (WTG 01)	06:25	15:41 (WTG 01)	06:33	05:49	05:27		
	16:49	17:26	29	16:24 (WTG 01)	18:00	54	16:35 (WTG 01)	19:34	20:06	20:33
10	07:27	07:04	15:53 (WTG 01)	06:23	15:42 (WTG 01)	06:31	05:48	05:27		
	16:50	17:27	34	16:27 (WTG 01)	18:01	52	16:34 (WTG 01)	19:35	20:07	20:34
11	07:27	07:03	15:50 (WTG 01)	06:21	15:43 (WTG 01)	06:29	05:47	05:27		
	16:51	17:29	38	16:28 (WTG 01)	18:02	50	16:33 (WTG 01)	19:36	20:08	20:34
12	07:27	07:01	15:49 (WTG 01)	06:20	15:43 (WTG 01)	06:28	05:46	05:27		
	16:52	17:30	41	16:30 (WTG 01)	18:03	48	16:31 (WTG 01)	19:37	20:09	20:35
13	07:26	07:00	15:48 (WTG 01)	06:18	15:45 (WTG 01)	06:26	05:45	05:27		
	16:53	17:31	44	16:32 (WTG 01)	18:04	46	16:31 (WTG 01)	19:38	20:10	20:35
14	07:26	06:59	15:46 (WTG 01)	06:16	15:46 (WTG 01)	06:25	05:44	05:27		
	16:54	17:32	47	16:33 (WTG 01)	18:06	43	16:29 (WTG 01)	19:39	20:11	20:36
15	07:26	06:58	15:45 (WTG 01)	06:15	15:48 (WTG 01)	06:23	05:43	05:27		
	16:55	17:34	49	16:34 (WTG 01)	18:07	38	16:26 (WTG 01)	19:40	20:12	20:36
16	07:25	06:56	15:44 (WTG 01)	06:13	15:50 (WTG 01)	06:21	05:42	05:27		
	16:56	17:35	51	16:35 (WTG 01)	18:08	35	16:25 (WTG 01)	19:42	20:13	20:37
17	07:25	06:55	15:43 (WTG 01)	06:11	15:52 (WTG 01)	06:20	05:41	05:27		
	16:58	17:36	53	16:36 (WTG 01)	18:09	30	16:22 (WTG 01)	19:43	20:14	20:37
18	07:24	06:53	15:42 (WTG 01)	06:10	15:55 (WTG 01)	06:18	05:40	05:27		
	16:59	17:37	55	16:37 (WTG 01)	18:10	24	16:19 (WTG 01)	19:44	20:15	20:37
19	07:24	06:52	15:41 (WTG 01)	06:08	16:00 (WTG 01)	06:17	05:39	05:27		
	17:00	17:39	56	16:37 (WTG 01)	18:11	15	16:15 (WTG 01)	19:45	20:16	20:38
20	07:23	06:51	15:41 (WTG 01)	06:06			06:15	05:38	05:27	
	17:01	17:40	57	16:38 (WTG 01)	18:12		19:46	20:17	20:38	
21	07:23	06:49	15:41 (WTG 01)	06:04			06:14	05:37	05:27	
	17:02	17:41	58	16:39 (WTG 01)	18:13		19:47	20:18	20:38	
22	07:22	06:48	15:40 (WTG 01)	06:03			06:12	05:37	05:27	
	17:04	17:42	59	16:39 (WTG 01)	18:14		19:48	20:19	20:38	
23	07:21	06:46	15:40 (WTG 01)	06:01			06:11	05:36	05:28	
	17:05	17:43	60	16:40 (WTG 01)	18:15		19:49	20:20	20:39	
24	07:21	06:45	15:39 (WTG 01)	05:59			06:09	05:35	05:28	
	17:06	17:45	61	16:40 (WTG 01)	18:17		19:50	20:21	20:39	
25	07:20	06:43	15:39 (WTG 01)	05:58			06:08	05:34	05:28	
	17:07	17:46	61	16:40 (WTG 01)	18:18		19:51	20:22	20:39	
26	07:19	06:42	15:38 (WTG 01)	05:56			06:06	05:34	05:28	
	17:08	17:47	62	16:40 (WTG 01)	18:19		19:52	20:23	20:39	
27	07:18	06:40	15:39 (WTG 01)	05:54			06:05	05:33	05:29	
	17:10	17:48	61	16:40 (WTG 01)	18:20		19:53	20:24	20:39	
28	07:17	06:39	15:38 (WTG 01)	05:53			06:04	05:32	05:29	
	17:11	17:49	62	16:40 (WTG 01)	18:21		19:55	20:25	20:39	
29	07:17			06:51			06:02	05:32	05:30	
	17:12			19:22			19:56	20:25	20:39	
30	07:16			06:49			06:01	05:31	05:30	
	17:13			19:23			19:57	20:26	20:39	
31	07:15			06:48				05:31		
	17:15			19:24				20:27		
Ore potenziali eliofania	296	297		369			399	449	454	
Totale, caso peggiore			1077		909					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 14 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (312)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Settembre	Ottobre	Novembre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45	16:24 (WTG 01) 17:10 (WTG 01)	06:32 16:57	15:22 (WTG 01) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	16:22 (WTG 01) 17:11 (WTG 01)	06:33 16:56	15:25 (WTG 01) 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41	16:20 (WTG 01) 17:12 (WTG 01)	06:34 16:55	15:28 (WTG 01) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31		07:00 18:40	16:19 (WTG 01) 17:12 (WTG 01)	06:35 16:54	15:32 (WTG 01) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29		07:01 18:38	16:17 (WTG 01) 17:12 (WTG 01)	06:36 16:52	15:46 (WTG 01) 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27		07:02 18:36	16:16 (WTG 01) 17:13 (WTG 01)	06:38 16:51	16:31
7	05:34 20:38	06:01 20:12	06:32 19:26		07:03 18:35	16:15 (WTG 01) 17:13 (WTG 01)	06:39 16:50	16:31
8	05:34 20:37	06:02 20:11	06:33 19:24		07:04 18:33	16:15 (WTG 01) 17:14 (WTG 01)	06:40 16:49	16:31
9	05:35 20:37	06:03 20:10	06:34 19:22		07:05 18:31	16:14 (WTG 01) 17:14 (WTG 01)	06:41 16:48	16:31
10	05:36 20:36	06:04 20:09	06:35 19:21		07:06 18:30	16:13 (WTG 01) 17:14 (WTG 01)	06:42 16:47	16:31
11	05:37 20:36	06:05 20:07	06:36 19:19		07:07 18:28	16:12 (WTG 01) 17:13 (WTG 01)	06:44 16:46	16:31
12	05:37 20:36	06:06 20:06	06:37 19:17		07:09 18:26	16:12 (WTG 01) 17:13 (WTG 01)	06:45 16:45	16:31
13	05:38 20:35	06:07 20:05	06:38 19:16		07:10 18:25	16:11 (WTG 01) 17:13 (WTG 01)	06:46 16:44	16:31
14	05:39 20:34	06:08 20:03	06:39 19:14		07:11 18:23	16:11 (WTG 01) 17:12 (WTG 01)	06:47 16:43	16:32
15	05:40 20:34	06:09 20:02	06:40 19:12		07:12 18:22	16:10 (WTG 01) 17:12 (WTG 01)	06:49 16:42	16:32
16	05:40 20:33	06:10 20:00	06:41 19:10		07:13 18:20	16:11 (WTG 01) 17:12 (WTG 01)	06:50 16:41	16:32
17	05:41 20:33	06:11 19:59	06:42 19:09		07:14 18:18	16:11 (WTG 01) 17:12 (WTG 01)	06:51 16:40	16:32
18	05:42 20:32	06:12 19:58	06:43 19:07		07:15 18:17	16:10 (WTG 01) 17:11 (WTG 01)	06:52 16:40	16:33
19	05:43 20:31	06:13 19:56	06:44 19:05		07:16 18:15	16:10 (WTG 01) 17:10 (WTG 01)	06:53 16:39	16:33
20	05:44 20:31	06:14 19:55	06:45 19:03		07:18 18:14	16:10 (WTG 01) 17:09 (WTG 01)	06:55 16:38	16:34
21	05:45 20:30	06:15 19:53	06:46 19:02		07:19 18:12	16:11 (WTG 01) 17:10 (WTG 01)	06:56 16:37	16:34
22	05:45 20:29	06:16 19:52	06:47 19:00		07:20 18:11	16:12 (WTG 01) 17:09 (WTG 01)	06:57 16:37	16:34
23	05:46 20:28	06:17 19:50	06:48 18:58		07:21 18:09	16:12 (WTG 01) 17:08 (WTG 01)	06:58 16:36	16:35
24	05:47 20:27	06:18 19:49	06:49 18:57	11	07:22 18:08	16:12 (WTG 01) 17:06 (WTG 01)	06:59 16:36	16:35
25	05:48 20:26	06:19 19:47	06:51 18:55	21	06:23 17:07	15:13 (WTG 01) 16:05 (WTG 01)	07:00 16:35	16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	28	06:24 17:05	15:14 (WTG 01) 16:05 (WTG 01)	07:01 16:34	16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	33	06:26 17:04	15:15 (WTG 01) 16:03 (WTG 01)	07:03 16:34	16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	37	06:27 17:03	15:16 (WTG 01) 16:02 (WTG 01)	07:04 16:34	16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	41	06:28 17:01	15:18 (WTG 01) 16:01 (WTG 01)	07:05 16:33	16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	45	06:29 17:00	15:19 (WTG 01) 15:59 (WTG 01)	07:06 16:33	16:40
31	05:54 20:21	06:25 19:37			06:30 16:59	15:20 (WTG 01) 15:57 (WTG 01)		16:40
Ore potenziali eliofanìa	460	429	375		345		297	286
Totale, caso peggiore			216		1702		97	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 15 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (309)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	15:59 (WTG 01) 16:42 (WTG 01)	06:46 19:25	05:59 19:58
2	07:28 16:42	07:13 17:17	06:36 17:52	16:01 (WTG 01) 16:42 (WTG 01)	06:44 19:26	05:58 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	16:01 (WTG 01) 16:40 (WTG 01)	06:43 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	06:33 17:54	16:03 (WTG 01) 16:39 (WTG 01)	06:41 19:29	05:56 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	16:04 (WTG 01) 16:37 (WTG 01)	06:39 19:30	05:54 20:02
6	07:28 16:46	07:09 17:22	06:29 17:56	16:06 (WTG 01) 16:35 (WTG 01)	06:38 19:31	05:53 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58	16:08 (WTG 01) 16:33 (WTG 01)	06:36 19:32	05:52 20:04
8	07:28 16:48	07:06 17:25	06:26 17:59	16:11 (WTG 01) 16:29 (WTG 01)	06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	06:25 18:00	16:17 (WTG 01) 16:23 (WTG 01)	06:33 19:34	05:49 20:06
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:37 20:18	05:27 20:38
22	07:22 17:03	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:28 20:39
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	05:32 20:25	05:29 20:39
29	07:17 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24		05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		1070	270			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 15 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (309)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57		15:31 (WTG 01) 16:10 (WTG 01)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		06:33 16:56	39	15:33 (WTG 01) 16:10 (WTG 01)
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		06:34 16:55	37	15:34 (WTG 01) 16:08 (WTG 01)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39		06:35 16:54	34	15:35 (WTG 01) 16:06 (WTG 01)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	14	07:01 17:04 (WTG 01)	31	15:37 (WTG 01) 16:04 (WTG 01)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	21	06:38 17:07 (WTG 01)	27	15:40 (WTG 01) 16:03 (WTG 01)
7	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:34	27	06:39 17:09 (WTG 01)	23	15:42 (WTG 01) 16:00 (WTG 01)
8	05:34 20:37	06:02 20:10	06:33 19:24	07:04 18:33	31	06:40 17:12 (WTG 01)	18	15:47 (WTG 01) 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	34	06:41 17:13 (WTG 01)	8	15:55 (WTG 01) 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	37	06:42 17:14 (WTG 01)		16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	40	06:44 17:15 (WTG 01)		16:17
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	41	06:45 17:15 (WTG 01)		16:17
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	44	06:46 17:16 (WTG 01)		16:18
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	45	06:47 17:16 (WTG 01)		16:19
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	46	06:49 17:16 (WTG 01)		16:20
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	47	06:50 17:17 (WTG 01)		16:20
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	48	06:51 17:17 (WTG 01)		16:21
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	49	06:52 17:17 (WTG 01)		16:22
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	49	06:53 17:17 (WTG 01)		16:22
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	50	06:55 17:17 (WTG 01)		16:23
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	50	06:56 17:17 (WTG 01)		16:24
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	50	06:57 17:17 (WTG 01)		16:24
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	49	06:58 17:16 (WTG 01)		16:25
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	49	06:59 17:16 (WTG 01)		16:25
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	48	07:00 16:15 (WTG 01)		16:25
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 17:05	47	07:01 16:15 (WTG 01)		16:26
27	05:50 20:25	06:21 19:44	06:53 18:51	07:26 17:04	47	07:03 16:15 (WTG 01)		16:26
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:02	46	07:04 16:14 (WTG 01)		16:27
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	45	07:05 16:13 (WTG 01)		16:27
30	05:53 20:22	06:24 19:39	06:56 18:46	07:29 17:00	45	07:06 16:13 (WTG 01)		16:27
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 16:59	43	07:07 16:11 (WTG 01)		16:27
Ore potenziali eliofania	460	429	375	345		297		286
Totale, caso peggiore				1136		217		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 16 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (342)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo		Aprile		Maggio	Giugno	
1	07:27 16:41	07:14 17:16	06:37 17:51		06:46 19:25	50	17:30 (WTG 01) 18:20 (WTG 01)	05:59 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52		06:44 19:26	51	17:30 (WTG 01) 18:21 (WTG 01)	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53		06:43 19:27	50	17:30 (WTG 01) 18:20 (WTG 01)	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54		06:41 19:29	51	17:29 (WTG 01) 18:20 (WTG 01)	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	50	17:30 (WTG 01) 18:20 (WTG 01)	05:54 20:02	05:28 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56		06:38 19:31	49	17:30 (WTG 01) 18:19 (WTG 01)	05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	48	17:30 (WTG 01) 18:18 (WTG 01)	05:52 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59		06:34 19:33	48	17:30 (WTG 01) 18:18 (WTG 01)	05:51 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00		06:33 19:34	46	17:31 (WTG 01) 18:17 (WTG 01)	05:49 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01		06:31 19:35	44	17:32 (WTG 01) 18:16 (WTG 01)	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02		06:29 19:36	43	17:32 (WTG 01) 18:15 (WTG 01)	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03		06:28 19:37	42	17:32 (WTG 01) 18:14 (WTG 01)	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04		06:26 19:38	39	17:34 (WTG 01) 18:13 (WTG 01)	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06		06:25 19:39	37	17:34 (WTG 01) 18:11 (WTG 01)	05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07		06:23 19:40	34	17:36 (WTG 01) 18:10 (WTG 01)	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08		06:21 19:42	31	17:37 (WTG 01) 18:08 (WTG 01)	05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09		06:20 19:43	27	17:39 (WTG 01) 18:06 (WTG 01)	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	12	16:53 (WTG 01) 17:05 (WTG 01)	06:18 19:44	17:41 (WTG 01) 18:03 (WTG 01)	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	21	16:49 (WTG 01) 17:10 (WTG 01)	06:17 19:45	17:45 (WTG 01) 18:00 (WTG 01)	05:39 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	28	16:45 (WTG 01) 17:13 (WTG 01)	06:15 19:46	05:38 20:17	05:27 20:38	
21	07:23 17:02	06:49 17:41	06:04 18:13	31	16:43 (WTG 01) 17:14 (WTG 01)	06:14 19:47	05:37 20:18	05:27 20:38	
22	07:22 17:04	06:48 17:42	06:03 18:14	36	16:40 (WTG 01) 17:16 (WTG 01)	06:12 19:48	05:37 20:19	05:27 20:38	
23	07:21 17:05	06:46 17:43	06:01 18:15	39	16:39 (WTG 01) 17:18 (WTG 01)	06:11 19:49	05:36 20:20	05:28 20:38	
24	07:21 17:06	06:45 17:45	05:59 18:17	41	16:37 (WTG 01) 17:18 (WTG 01)	06:09 19:50	05:35 20:21	05:28 20:39	
25	07:20 17:07	06:43 17:46	05:58 18:18	43	16:36 (WTG 01) 17:19 (WTG 01)	06:08 19:51	05:34 20:22	05:28 20:39	
26	07:19 17:08	06:42 17:47	05:56 18:19	45	16:35 (WTG 01) 17:20 (WTG 01)	06:06 19:52	05:34 20:23	05:28 20:39	
27	07:18 17:10	06:40 17:48	05:54 18:20	46	16:34 (WTG 01) 17:20 (WTG 01)	06:05 19:53	05:33 20:24	05:29 20:39	
28	07:17 17:11	06:39 17:49	05:53 18:21	47	16:33 (WTG 01) 17:20 (WTG 01)	06:04 19:55	05:32 20:24	05:29 20:39	
29	07:17 17:12		06:51 19:22	48	17:33 (WTG 01) 18:21 (WTG 01)	06:02 19:56	05:32 20:25	05:30 20:39	
30	07:16 17:13		06:49 19:23	49	17:32 (WTG 01) 18:21 (WTG 01)	06:01 19:57	05:31 20:26	05:30 20:39	
31	07:15 17:15		06:48 19:24	50	17:31 (WTG 01) 18:21 (WTG 01)		05:31 20:27		
Ore potenziali eliofanìa	296	297	369	536	399	777	449	454	
Totale, caso peggiore									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 16 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (342)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	05:31	05:55	06:26	17:31 (WTG 01)	06:57	06:32	07:07	
	20:39	20:19	19:36	43 18:14 (WTG 01)	18:45	16:57	16:32	
2	05:31	05:56	06:27	17:30 (WTG 01)	06:58	06:33	07:08	
	20:39	20:18	19:34	44 18:14 (WTG 01)	18:43	16:56	16:32	
3	05:32	05:57	06:28	17:29 (WTG 01)	06:59	06:34	07:09	
	20:38	20:17	19:32	46 18:15 (WTG 01)	18:41	16:55	16:32	
4	05:32	05:58	06:29	17:28 (WTG 01)	07:00	06:35	07:10	
	20:38	20:16	19:31	47 18:15 (WTG 01)	18:39	16:54	16:32	
5	05:33	05:59	06:30	17:27 (WTG 01)	07:01	06:36	07:11	
	20:38	20:15	19:29	48 18:15 (WTG 01)	18:38	16:52	16:31	
6	05:33	06:00	06:31	17:26 (WTG 01)	07:02	06:38	07:12	
	20:38	20:14	19:27	49 18:15 (WTG 01)	18:36	16:51	16:31	
7	05:34	06:01	06:32	17:25 (WTG 01)	07:03	06:39	07:13	
	20:37	20:12	19:26	50 18:15 (WTG 01)	18:34	16:50	16:31	
8	05:34	06:02	06:33	17:25 (WTG 01)	07:04	06:40	07:14	
	20:37	20:11	19:24	50 18:15 (WTG 01)	18:33	16:49	16:31	
9	05:35	06:03	06:34	17:24 (WTG 01)	07:05	06:41	07:15	
	20:37	20:10	19:22	50 18:14 (WTG 01)	18:31	16:48	16:31	
10	05:36	06:04	06:35	17:24 (WTG 01)	07:06	06:42	07:16	
	20:36	20:09	19:21	50 18:14 (WTG 01)	18:30	16:47	16:31	
11	05:37	06:05	06:36	17:23 (WTG 01)	07:07	06:44	07:17	
	20:36	20:07	19:19	51 18:14 (WTG 01)	18:28	16:46	16:31	
12	05:37	06:06	06:37	17:23 (WTG 01)	07:09	06:45	07:17	
	20:35	20:06	19:17	50 18:13 (WTG 01)	18:26	16:45	16:31	
13	05:38	06:07	06:38	17:23 (WTG 01)	07:10	06:46	07:18	
	20:35	20:05	19:16	49 18:12 (WTG 01)	18:25	16:44	16:31	
14	05:39	06:08	06:39	17:23 (WTG 01)	07:11	06:47	07:19	
	20:34	20:03	19:14	49 18:12 (WTG 01)	18:23	16:43	16:32	
15	05:40	06:09	06:40	17:23 (WTG 01)	07:12	06:49	07:20	
	20:34	20:02	19:12	48 18:11 (WTG 01)	18:22	16:42	16:32	
16	05:40	06:10	06:41	17:23 (WTG 01)	07:13	06:50	07:20	
	20:33	20:00	19:10	47 18:10 (WTG 01)	18:20	16:41	16:32	
17	05:41	06:11	06:42	17:23 (WTG 01)	07:14	06:51	07:21	
	20:33	19:59	19:09	46 18:09 (WTG 01)	18:18	16:40	16:32	
18	05:42	06:12	06:43	17:24 (WTG 01)	07:15	06:52	07:22	
	20:32	19:58	19:07	43 18:07 (WTG 01)	18:17	16:40	16:33	
19	05:43	06:13	06:44	17:24 (WTG 01)	07:16	06:53	07:22	
	20:31	19:56	19:05	42 18:06 (WTG 01)	18:15	16:39	16:33	
20	05:44	06:14	06:45	17:25 (WTG 01)	07:17	06:54	07:23	
	20:31	19:55	19:03	39 18:04 (WTG 01)	18:14	16:38	16:34	
21	05:45	06:15	06:46	17:26 (WTG 01)	07:19	06:56	07:24	
	20:30	19:53	19:02	36 18:02 (WTG 01)	18:12	16:37	16:34	
22	05:45	06:16	06:47	17:27 (WTG 01)	07:20	06:57	07:24	
	20:29	19:52	19:00	33 18:00 (WTG 01)	18:11	16:37	16:34	
23	05:46	06:17	17:53 (WTG 01)	06:48	17:29 (WTG 01)	07:21	06:58	07:25
	20:28	19:50	6 17:59 (WTG 01)	18:58	29 17:58 (WTG 01)	18:09	16:36	16:35
24	05:47	06:18	17:47 (WTG 01)	06:49	17:31 (WTG 01)	07:22	06:59	07:25
	20:27	19:48	17 18:04 (WTG 01)	18:57	24 17:55 (WTG 01)	18:08	16:36	16:35
25	05:48	06:19	17:44 (WTG 01)	06:50	17:35 (WTG 01)	06:23	07:00	07:25
	20:26	19:47	22 18:06 (WTG 01)	18:55	16 17:51 (WTG 01)	17:07	16:35	16:36
26	05:49	06:20	17:41 (WTG 01)	06:52		06:24	07:01	07:26
	20:25	19:45	27 18:08 (WTG 01)	18:53		17:05	16:34	16:37
27	05:50	06:21	17:39 (WTG 01)	06:53		06:26	07:03	07:26
	20:25	19:44	31 18:10 (WTG 01)	18:51		17:04	16:34	16:37
28	05:51	06:22	17:37 (WTG 01)	06:54		06:27	07:04	07:27
	20:24	19:42	34 18:11 (WTG 01)	18:50		17:02	16:34	16:38
29	05:52	06:23	17:35 (WTG 01)	06:55		06:28	07:05	07:27
	20:23	19:41	37 18:12 (WTG 01)	18:48		17:01	16:33	16:39
30	05:53	06:24	17:33 (WTG 01)	06:56		06:29	07:06	07:27
	20:22	19:39	40 18:13 (WTG 01)	18:46		17:00	16:33	16:39
31	05:54	06:25	17:32 (WTG 01)			06:30		07:27
	20:20	19:37	42 18:14 (WTG 01)			16:59		16:40
Ore potenziali eliofania	460	429	375	1079	345	297	286	
Totale, caso peggiore		256						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 17 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (343)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	17:36 (WTG 01) 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	17:36 (WTG 01) 19:59	05:30 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	06:43 19:27	17:35 (WTG 01) 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	17:34 (WTG 01) 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	17:34 (WTG 01) 20:02	05:28 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	17:33 (WTG 01) 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	17:33 (WTG 01) 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	17:33 (WTG 01) 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	17:32 (WTG 01) 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	17:33 (WTG 01) 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	17:33 (WTG 01) 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	17:32 (WTG 01) 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	17:33 (WTG 01) 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	17:33 (WTG 01) 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	17:34 (WTG 01) 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	17:34 (WTG 01) 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	17:35 (WTG 01) 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	17:35 (WTG 01) 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	17:37 (WTG 01) 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	17:37 (WTG 01) 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	06:14 19:47	17:39 (WTG 01) 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	17:40 (WTG 01) 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	17:42 (WTG 01) 20:20	05:28 20:38
24	07:21 17:06	06:45 17:44	05:59 18:17	06:09 19:50	17:43 (WTG 01) 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	17:46 (WTG 01) 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	18:06 (WTG 01) 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	17:50 (WTG 01) 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	16:44 (WTG 01) 20:25	05:29 20:39
29	07:17 17:12		06:51 19:22	06:02 19:56	17:21 (WTG 01) 20:26	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	17:41 (WTG 01) 20:27	05:31 20:39
31	07:15 17:15		06:48 19:24	17:38 (WTG 01) 18:23 (WTG 01)	18:02 (WTG 01) 20:28	05:31 20:39
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore			298	1110		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 17 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (343)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	05:31	05:55	06:26	17:32 (WTG 01)	06:57	06:32	07:07	
	20:39	20:19	19:36	50 18:22 (WTG 01)	18:45	16:57	16:32	
2	05:31	05:56	06:27	17:31 (WTG 01)	06:58	06:33	07:08	
	20:39	20:18	19:34	51 18:22 (WTG 01)	18:43	16:56	16:32	
3	05:32	05:57	06:28	17:30 (WTG 01)	06:59	06:34	07:09	
	20:38	20:17	19:32	52 18:22 (WTG 01)	18:41	16:55	16:32	
4	05:32	05:58	06:29	17:30 (WTG 01)	07:00	06:35	07:10	
	20:38	20:16	19:31	52 18:22 (WTG 01)	18:39	16:54	16:32	
5	05:33	05:59	06:30	17:30 (WTG 01)	07:01	06:36	07:11	
	20:38	20:15	19:29	51 18:21 (WTG 01)	18:38	16:52	16:31	
6	05:33	06:00	06:31	17:29 (WTG 01)	07:02	06:38	07:12	
	20:38	20:14	19:27	52 18:21 (WTG 01)	18:36	16:51	16:31	
7	05:34	06:01	06:32	17:29 (WTG 01)	07:03	06:39	07:13	
	20:37	20:12	19:26	51 18:20 (WTG 01)	18:34	16:50	16:31	
8	05:34	06:02	06:33	17:29 (WTG 01)	07:04	06:40	07:14	
	20:37	20:11	19:24	50 18:19 (WTG 01)	18:33	16:49	16:31	
9	05:35	06:03	06:34	17:29 (WTG 01)	07:05	06:41	07:15	
	20:37	20:10	19:22	50 18:19 (WTG 01)	18:31	16:48	16:31	
10	05:36	06:04	06:35	17:29 (WTG 01)	07:06	06:42	07:16	
	20:36	20:09	19:21	49 18:18 (WTG 01)	18:30	16:47	16:31	
11	05:37	06:05	06:36	17:29 (WTG 01)	07:07	06:44	07:17	
	20:36	20:07	19:19	48 18:17 (WTG 01)	18:28	16:46	16:31	
12	05:37	06:06	06:37	17:30 (WTG 01)	07:09	06:45	07:17	
	20:35	20:06	19:17	45 18:15 (WTG 01)	18:26	16:45	16:31	
13	05:38	06:07	06:38	17:30 (WTG 01)	07:10	06:46	07:18	
	20:35	20:05	19:16	44 18:14 (WTG 01)	18:25	16:44	16:31	
14	05:39	06:08	06:39	17:31 (WTG 01)	07:11	06:47	07:19	
	20:34	20:03	19:14	42 18:13 (WTG 01)	18:23	16:43	16:32	
15	05:40	06:09	06:40	17:32 (WTG 01)	07:12	06:49	07:20	
	20:34	20:02	19:12	39 18:11 (WTG 01)	18:22	16:42	16:32	
16	05:40	06:10	06:41	17:33 (WTG 01)	07:13	06:50	07:20	
	20:33	20:00	19:10	36 18:09 (WTG 01)	18:20	16:41	16:32	
17	05:41	06:11	17:56 (WTG 01)	06:42	17:34 (WTG 01)	07:14	06:51	07:21
	20:33	19:59	14 18:10 (WTG 01)	19:09	33 18:07 (WTG 01)	18:18	16:40	16:32
18	05:42	06:12	17:51 (WTG 01)	06:43	17:36 (WTG 01)	07:15	06:52	07:22
	20:32	19:58	21 18:12 (WTG 01)	19:07	29 18:05 (WTG 01)	18:17	16:40	16:33
19	05:43	06:13	17:48 (WTG 01)	06:44	17:38 (WTG 01)	07:16	06:53	07:22
	20:31	19:56	26 18:14 (WTG 01)	19:05	23 18:01 (WTG 01)	18:15	16:39	16:33
20	05:44	06:14	17:46 (WTG 01)	06:45	17:42 (WTG 01)	07:17	06:54	07:23
	20:31	19:55	30 18:16 (WTG 01)	19:03	15 17:57 (WTG 01)	18:14	16:38	16:34
21	05:45	06:15	17:44 (WTG 01)	06:46	07:19	06:56	07:24	
	20:30	19:53	33 18:17 (WTG 01)	19:02	18:12	16:37	16:34	
22	05:45	06:16	17:43 (WTG 01)	06:47	07:20	06:57	07:24	
	20:29	19:52	35 18:18 (WTG 01)	19:00	18:11	16:37	16:34	
23	05:46	06:17	17:41 (WTG 01)	06:48	07:21	06:58	07:25	
	20:28	19:50	38 18:19 (WTG 01)	18:58	18:09	16:36	16:35	
24	05:47	06:18	17:40 (WTG 01)	06:49	07:22	06:59	07:25	
	20:27	19:48	40 18:20 (WTG 01)	18:57	18:08	16:36	16:35	
25	05:48	06:19	17:38 (WTG 01)	06:50	06:23	07:00	07:25	
	20:26	19:47	43 18:21 (WTG 01)	18:55	17:07	16:35	16:36	
26	05:49	06:20	17:37 (WTG 01)	06:52	06:24	07:01	07:26	
	20:25	19:45	44 18:21 (WTG 01)	18:53	17:05	16:34	16:37	
27	05:50	06:21	17:36 (WTG 01)	06:53	06:26	07:03	07:26	
	20:25	19:44	46 18:22 (WTG 01)	18:51	17:04	16:34	16:37	
28	05:51	06:22	17:35 (WTG 01)	06:54	06:27	07:04	07:27	
	20:24	19:42	47 18:22 (WTG 01)	18:50	17:02	16:34	16:38	
29	05:52	06:23	17:34 (WTG 01)	06:55	06:28	07:05	07:27	
	20:23	19:41	48 18:22 (WTG 01)	18:48	17:01	16:33	16:39	
30	05:53	06:24	17:33 (WTG 01)	06:56	06:29	07:06	07:27	
	20:22	19:39	49 18:22 (WTG 01)	18:46	17:00	16:33	16:39	
31	05:54	06:25	17:32 (WTG 01)	06:57	06:30	07:07	07:27	
	20:20	19:37	50 18:22 (WTG 01)	18:44	16:59	16:32	16:40	
Ore potenziali eliofania	460	429	375	862	345	297	286	
Totale, caso peggiore		564						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 18 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (313)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		09:11 (WTG 02)	07:14		09:32 (WTG 02)	06:37	06:46	05:59	05:30		
	16:41	79	10:30 (WTG 02)	17:16	53	10:25 (WTG 02)	17:51	19:25	19:58	20:28		
2	07:28		09:11 (WTG 02)	07:13		09:33 (WTG 02)	06:36	06:44	05:58	05:30		
	16:42	79	10:30 (WTG 02)	17:17	51	10:24 (WTG 02)	17:52	19:26	19:59	20:28		
3	07:28		09:12 (WTG 02)	07:12		09:35 (WTG 02)	06:34	06:43	05:57	05:29		
	16:43	79	10:31 (WTG 02)	17:19	47	10:22 (WTG 02)	17:53	19:27	20:00	20:29		
4	07:28		09:12 (WTG 02)	07:11		09:37 (WTG 02)	06:33	06:41	05:56	05:29		
	16:44	79	10:31 (WTG 02)	17:20	43	10:20 (WTG 02)	17:54	19:29	20:01	20:30		
5	07:28		09:13 (WTG 02)	07:10		09:39 (WTG 02)	06:31	06:39	05:54	05:28		
	16:45	78	10:31 (WTG 02)	17:21	39	10:18 (WTG 02)	17:55	19:30	20:02	20:31		
6	07:28		09:13 (WTG 02)	07:09		09:40 (WTG 02)	06:29	06:38	05:53	05:28		
	16:46	79	10:32 (WTG 02)	17:22	34	10:14 (WTG 02)	17:56	19:31	20:03	20:31		
7	07:28		09:14 (WTG 02)	07:07		09:43 (WTG 02)	06:28	06:36	05:52	05:28		
	16:47	78	10:32 (WTG 02)	17:24	28	10:11 (WTG 02)	17:58	19:32	20:04	20:32		
8	07:28		09:15 (WTG 02)	07:06		09:48 (WTG 02)	06:26	06:34	05:51	05:28		
	16:48	78	10:33 (WTG 02)	17:25	19	10:07 (WTG 02)	17:59	19:33	20:05	20:33		
9	07:27		09:14 (WTG 02)	07:05			06:25	06:33	05:50	05:27		
	16:49	78	10:32 (WTG 02)	17:26			18:00	19:34	20:06	20:33		
10	07:27		09:15 (WTG 02)	07:04			06:23	06:31	05:48	05:27		
	16:50	78	10:33 (WTG 02)	17:27			18:01	19:35	20:07	20:34		
11	07:27		09:16 (WTG 02)	07:03			06:21	06:29	05:47	05:27		
	16:51	77	10:33 (WTG 02)	17:29			18:02	19:36	20:08	20:34		
12	07:27		09:16 (WTG 02)	07:01			06:20	06:28	05:46	05:27		
	16:52	77	10:33 (WTG 02)	17:30			18:03	19:37	20:09	20:35		
13	07:26		09:17 (WTG 02)	07:00			06:18	06:26	05:45	05:27		
	16:53	76	10:33 (WTG 02)	17:31			18:04	19:38	20:10	20:35		
14	07:26		09:18 (WTG 02)	06:59			06:16	06:25	05:44	05:27		
	16:54	76	10:34 (WTG 02)	17:32			18:06	19:39	20:11	20:36		
15	07:26		09:18 (WTG 02)	06:58			06:15	06:23	05:43	05:27		
	16:55	76	10:34 (WTG 02)	17:34			18:07	19:40	20:12	20:36		
16	07:25		09:19 (WTG 02)	06:56			06:13	06:21	05:42	05:27		
	16:56	75	10:34 (WTG 02)	17:35			18:08	19:42	20:13	20:37		
17	07:25		09:19 (WTG 02)	06:55			06:11	06:20	05:41	05:27		
	16:58	75	10:34 (WTG 02)	17:36			18:09	19:43	20:14	20:37		
18	07:24		09:19 (WTG 02)	06:53			06:10	06:18	05:40	05:27		
	16:59	74	10:33 (WTG 02)	17:37			18:10	19:44	20:15	20:37		
19	07:24		09:20 (WTG 02)	06:52			06:08	06:17	05:39	05:27		
	17:00	74	10:34 (WTG 02)	17:39			18:11	19:45	20:16	20:38		
20	07:23		09:21 (WTG 02)	06:51			06:06	06:15	05:38	05:27		
	17:01	72	10:33 (WTG 02)	17:40			18:12	19:46	20:17	20:38		
21	07:23		09:22 (WTG 02)	06:49			06:04	06:14	05:37	05:27		
	17:02	72	10:34 (WTG 02)	17:41			18:13	19:47	20:18	20:38		
22	07:22		09:22 (WTG 02)	06:48			06:03	06:12	05:37	05:27		
	17:04	71	10:33 (WTG 02)	17:42			18:14	19:48	20:19	20:38		
23	07:21		09:23 (WTG 02)	06:46			06:01	06:11	05:36	05:28		
	17:05	69	10:32 (WTG 02)	17:43			18:16	19:49	20:20	20:38		
24	07:21		09:23 (WTG 02)	06:45			05:59	06:09	05:35	05:28		
	17:06	69	10:32 (WTG 02)	17:45			18:17	19:50	20:21	20:39		
25	07:20		09:24 (WTG 02)	06:43			05:58	06:08	05:34	05:28		
	17:07	67	10:31 (WTG 02)	17:46			18:18	19:51	20:22	20:39		
26	07:19		09:26 (WTG 02)	06:42			05:56	06:06	05:34	05:28		
	17:08	65	10:31 (WTG 02)	17:47			18:19	19:52	20:23	20:39		
27	07:18		09:26 (WTG 02)	06:40			05:54	06:05	05:33	05:29		
	17:10	64	10:30 (WTG 02)	17:48			18:20	19:53	20:24	20:39		
28	07:17		09:27 (WTG 02)	06:39			05:53	06:04	05:32	05:29		
	17:11	63	10:30 (WTG 02)	17:49			18:21	19:55	20:24	20:39		
29	07:17		09:28 (WTG 02)				06:51	06:02	05:32	05:30		
	17:12	61	10:29 (WTG 02)				19:22	19:56	20:25	20:39		
30	07:16		09:29 (WTG 02)				06:49	06:01	05:31	05:30		
	17:13	58	10:27 (WTG 02)				19:23	19:57	20:26	20:39		
31	07:15		09:30 (WTG 02)				06:48		05:31			
	17:15	56	10:26 (WTG 02)				19:24		20:27			
Ore potenziali eliofanìa	296			297			369	399	449	454		
Totale, caso peggiore	2252			314								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 18 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (313)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre		Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57		07:07 16:32	77 10:15 (WTG 02)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	4	09:25 (WTG 02) 09:29 (WTG 02)	77 78
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	21	09:17 (WTG 02) 09:38 (WTG 02)	77 78
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	29	09:13 (WTG 02) 09:42 (WTG 02)	78 78
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	35	09:10 (WTG 02) 09:45 (WTG 02)	78 78
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	40	09:08 (WTG 02) 09:48 (WTG 02)	79 79
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	44	09:06 (WTG 02) 09:50 (WTG 02)	79 78
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	47	09:05 (WTG 02) 09:52 (WTG 02)	79 79
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	51	09:04 (WTG 02) 09:55 (WTG 02)	79 79
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	53	09:03 (WTG 02) 09:56 (WTG 02)	79 79
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	56	09:01 (WTG 02) 09:57 (WTG 02)	79 79
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	58	09:01 (WTG 02) 09:59 (WTG 02)	79 79
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	61	09:00 (WTG 02) 10:01 (WTG 02)	79 79
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	63	08:59 (WTG 02) 10:02 (WTG 02)	79 79
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	64	08:58 (WTG 02) 10:02 (WTG 02)	79 80
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	65	08:59 (WTG 02) 10:04 (WTG 02)	79 79
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	67	08:58 (WTG 02) 10:05 (WTG 02)	79 79
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	69	08:57 (WTG 02) 10:06 (WTG 02)	79 79
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	69	08:58 (WTG 02) 10:07 (WTG 02)	79 79
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	06:54 16:38	71	08:57 (WTG 02) 10:08 (WTG 02)	79 79
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	72	08:57 (WTG 02) 10:09 (WTG 02)	79 79
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	72	08:57 (WTG 02) 10:09 (WTG 02)	79 79
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	74	08:56 (WTG 02) 10:10 (WTG 02)	79 79
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	74	08:57 (WTG 02) 10:11 (WTG 02)	79 79
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	07:00 16:35	75	08:57 (WTG 02) 10:12 (WTG 02)	79 79
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 17:05	07:01 16:34	75	08:57 (WTG 02) 10:12 (WTG 02)	79 79
27	05:50 20:25	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:34	76	08:57 (WTG 02) 10:13 (WTG 02)	79 79
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:03	07:04 16:34	76	08:57 (WTG 02) 10:13 (WTG 02)	79 80
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	77	08:58 (WTG 02) 10:15 (WTG 02)	79 79
30	05:53 20:22	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	77	08:58 (WTG 02) 10:15 (WTG 02)	79 79
31	05:54 20:20	06:25 19:37		06:30 16:59			07:27 16:40	79 79
Ore potenziali eliofania	460	429	375	345	297		286	
Totale, caso peggiore					1715			2444

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 19 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (314)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo		Aprile		Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51		06:46 19:25		07:31 (WTG 02) 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52		06:44 19:26	61	07:32 (WTG 02) 19:59	05:30 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53		06:43 19:27	60	07:32 (WTG 02) 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54		06:41 19:29	59	07:32 (WTG 02) 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	58	07:33 (WTG 02) 20:02	05:29 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56		06:38 19:31	56	07:33 (WTG 02) 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	55	07:34 (WTG 02) 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59	10	07:05 (WTG 02) 07:15 (WTG 02)	53	07:34 (WTG 02) 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00	23	06:58 (WTG 02) 07:21 (WTG 02)	51	07:34 (WTG 02) 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	30	06:55 (WTG 02) 07:25 (WTG 02)	50	07:36 (WTG 02) 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	35	06:52 (WTG 02) 07:27 (WTG 02)	47	07:36 (WTG 02) 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	39	06:49 (WTG 02) 07:28 (WTG 02)	45	07:37 (WTG 02) 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	43	06:48 (WTG 02) 07:31 (WTG 02)	41	07:39 (WTG 02) 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	47	06:45 (WTG 02) 07:32 (WTG 02)	38	07:40 (WTG 02) 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	49	06:43 (WTG 02) 07:32 (WTG 02)	34	07:43 (WTG 02) 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	51	06:43 (WTG 02) 07:34 (WTG 02)	29	07:45 (WTG 02) 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	53	06:41 (WTG 02) 07:34 (WTG 02)	23	07:49 (WTG 02) 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	56	06:39 (WTG 02) 07:35 (WTG 02)	15	08:04 (WTG 02) 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	57	06:39 (WTG 02) 07:36 (WTG 02)		20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	58	06:38 (WTG 02) 07:36 (WTG 02)		20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	60	06:36 (WTG 02) 07:36 (WTG 02)		20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	61	06:35 (WTG 02) 07:36 (WTG 02)		20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:16	61	06:35 (WTG 02) 07:36 (WTG 02)		20:20	05:28 20:38
24	07:21 17:06	06:45 17:45	05:59 18:17	62	06:34 (WTG 02) 07:36 (WTG 02)		20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	63	06:33 (WTG 02) 07:36 (WTG 02)		20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	62	06:34 (WTG 02) 07:36 (WTG 02)		20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	63	06:33 (WTG 02) 07:36 (WTG 02)		20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	63	06:32 (WTG 02) 07:35 (WTG 02)		20:24	05:29 20:39
29	07:17 17:12		06:51 19:22	62	07:33 (WTG 02) 08:35 (WTG 02)		20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	62	07:32 (WTG 02) 08:34 (WTG 02)		20:26	05:30 20:39
31	07:15 17:15		06:48 19:24	61	07:32 (WTG 02) 08:33 (WTG 02)		20:27	
Ore potenziali eliofania	296	297	369	1231	399	775	449	454
Totale, caso peggiore								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 19 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (314)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	07:35 (WTG 02) 18:45	06:57 08:09 (WTG 02)	06:32 16:57
2	05:31 20:39	05:56 20:18	06:27 19:34	07:34 (WTG 02) 08:21 (WTG 02)	06:58 18:43	06:33 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	07:32 (WTG 02) 08:22 (WTG 02)	06:59 18:41	06:34 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:31 (WTG 02) 08:22 (WTG 02)	07:00 18:40	06:35 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:30 (WTG 02) 08:23 (WTG 02)	07:01 18:38	06:36 16:32
6	05:33 20:37	06:00 20:14	06:31 19:27	07:29 (WTG 02) 08:24 (WTG 02)	07:02 18:36	06:38 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:28 (WTG 02) 08:24 (WTG 02)	07:03 18:35	06:39 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:27 (WTG 02) 08:25 (WTG 02)	07:04 18:33	06:40 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:26 (WTG 02) 08:25 (WTG 02)	07:05 18:31	06:41 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:25 (WTG 02) 08:25 (WTG 02)	07:06 18:30	06:42 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:25 (WTG 02) 08:25 (WTG 02)	07:07 18:28	06:44 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:24 (WTG 02) 08:25 (WTG 02)	07:09 18:26	06:45 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	07:23 (WTG 02) 08:25 (WTG 02)	07:10 18:25	06:46 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:23 (WTG 02) 08:25 (WTG 02)	07:11 18:23	06:47 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:22 (WTG 02) 08:25 (WTG 02)	07:12 18:22	06:49 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:22 (WTG 02) 08:25 (WTG 02)	07:13 18:20	06:50 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:22 (WTG 02) 08:24 (WTG 02)	07:14 18:18	06:51 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:22 (WTG 02) 08:24 (WTG 02)	07:15 18:17	06:52 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:22 (WTG 02) 08:24 (WTG 02)	07:16 18:15	06:53 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:22 (WTG 02) 08:23 (WTG 02)	07:18 18:14	06:55 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:22 (WTG 02) 08:22 (WTG 02)	07:19 18:12	06:56 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:22 (WTG 02) 08:21 (WTG 02)	07:20 18:11	06:57 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:22 (WTG 02) 08:21 (WTG 02)	07:21 18:10	06:58 16:35
24	05:47 20:27	06:18 19:49	06:49 18:57	07:22 (WTG 02) 08:20 (WTG 02)	07:22 18:08	06:59 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 (WTG 02) 08:18 (WTG 02)	06:23 17:07	07:00 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:23 (WTG 02) 08:17 (WTG 02)	06:24 17:05	07:01 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:24 (WTG 02) 08:16 (WTG 02)	06:26 17:04	07:03 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:24 (WTG 02) 08:14 (WTG 02)	06:27 17:03	07:04 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:25 (WTG 02) 08:13 (WTG 02)	06:28 17:01	07:05 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	07:26 (WTG 02) 08:11 (WTG 02)	06:29 17:00	07:06 16:40
31	05:54 20:20	06:25 19:37	06:57 18:45	07:27 (WTG 02) 08:18 (WTG 02)	06:30 16:59	07:07 16:40
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore		180	1692	153		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 20 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (315)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno				
1	07:27	07:14	15:08 (WTG 02)	06:37	06:46	05:59	05:30	19:08 (WTG 01)		
	16:41	17:16	48 15:56 (WTG 02)	17:51	19:25	19:58	20:28	30 19:38 (WTG 01)		
2	07:28	07:13	15:08 (WTG 02)	06:36	06:44	05:58	05:30	19:08 (WTG 01)		
	16:42	17:17	49 15:57 (WTG 02)	17:52	19:26	19:59	20:28	30 19:38 (WTG 01)		
3	07:28	07:12	15:08 (WTG 02)	06:34	06:42	05:57	05:29	19:08 (WTG 01)		
	16:43	17:18	49 15:57 (WTG 02)	17:53	19:27	20:00	20:29	30 19:38 (WTG 01)		
4	07:28	07:11	15:08 (WTG 02)	06:33	06:41	05:56	05:29	19:09 (WTG 01)		
	16:44	17:20	50 15:58 (WTG 02)	17:54	19:29	20:01	20:30	30 19:39 (WTG 01)		
5	07:28	07:10	15:08 (WTG 02)	06:31	06:39	05:54	05:28	19:08 (WTG 01)		
	16:45	17:21	50 15:58 (WTG 02)	17:55	19:30	20:02	20:31	30 19:38 (WTG 01)		
6	07:28	07:08	15:07 (WTG 02)	06:29	06:38	05:53	05:28	19:09 (WTG 01)		
	16:46	17:22	51 15:58 (WTG 02)	17:56	19:31	20:03	20:31	29 19:38 (WTG 01)		
7	07:28	07:07	15:07 (WTG 02)	06:28	06:36	05:52	05:28	19:10 (WTG 01)		
	16:47	17:24	51 15:58 (WTG 02)	17:58	19:32	20:04	20:32	29 19:39 (WTG 01)		
8	07:27	07:06	15:08 (WTG 02)	06:26	06:34	05:51	05:28	19:10 (WTG 01)		
	16:48	17:25	50 15:58 (WTG 02)	17:59	19:33	20:05	20:33	29 19:39 (WTG 01)		
9	07:27	07:05	15:08 (WTG 02)	06:24	06:33	05:49	05:27	19:10 (WTG 01)		
	16:49	17:26	51 15:59 (WTG 02)	18:00	19:34	20:06	20:33	28 19:38 (WTG 01)		
10	07:27	07:04	15:09 (WTG 02)	06:23	06:31	05:48	05:27	19:10 (WTG 01)		
	16:50	17:27	50 15:59 (WTG 02)	18:01	19:35	20:07	20:34	28 19:38 (WTG 01)		
11	07:27	07:03	15:08 (WTG 02)	06:21	06:29	05:47	19:18 (WTG 01)	05:27	19:11 (WTG 01)	
	16:51	17:29	50 15:58 (WTG 02)	18:02	19:36	20:08	6 19:24 (WTG 01)	20:34	27 19:38 (WTG 01)	
12	07:27	07:01	15:09 (WTG 02)	06:20	06:28	05:46	19:15 (WTG 01)	05:27	19:11 (WTG 01)	
	16:52	17:30	49 15:58 (WTG 02)	18:03	19:37	20:09	13 19:28 (WTG 01)	20:35	27 19:38 (WTG 01)	
13	07:26	07:00	15:10 (WTG 02)	06:18	06:26	05:45	19:13 (WTG 01)	05:27	19:12 (WTG 01)	
	16:53	17:31	48 15:58 (WTG 02)	18:04	19:38	20:10	16 19:29 (WTG 01)	20:35	27 19:39 (WTG 01)	
14	07:26	06:59	15:10 (WTG 02)	06:16	06:25	05:44	19:11 (WTG 01)	05:27	19:12 (WTG 01)	
	16:54	17:32	47 15:57 (WTG 02)	18:06	19:39	20:11	20 19:31 (WTG 01)	20:36	27 19:39 (WTG 01)	
15	07:26	15:25 (WTG 02)	06:58	15:11 (WTG 02)	06:15	06:23	05:43	19:10 (WTG 01)	05:27	19:12 (WTG 01)
	16:55	5 15:30 (WTG 02)	17:34	15:30 (WTG 02)	18:07	19:40	20:12	22 19:32 (WTG 01)	20:36	27 19:39 (WTG 01)
16	07:25	15:21 (WTG 02)	06:56	15:12 (WTG 02)	06:13	06:21	05:42	19:09 (WTG 01)	05:27	19:13 (WTG 01)
	16:56	14 15:35 (WTG 02)	17:35	15:12 (WTG 02)	18:08	19:42	20:13	24 19:33 (WTG 01)	20:37	26 19:39 (WTG 01)
17	07:25	15:19 (WTG 02)	06:55	15:13 (WTG 02)	06:11	06:20	05:41	19:09 (WTG 01)	05:27	19:13 (WTG 01)
	16:58	18 15:37 (WTG 02)	17:36	15:13 (WTG 02)	18:09	19:43	20:14	25 19:34 (WTG 01)	20:37	26 19:39 (WTG 01)
18	07:24	15:17 (WTG 02)	06:53	15:14 (WTG 02)	06:10	06:18	05:40	19:09 (WTG 01)	05:27	19:13 (WTG 01)
	16:59	22 15:39 (WTG 02)	17:37	15:14 (WTG 02)	18:10	19:44	20:15	26 19:35 (WTG 01)	20:37	26 19:39 (WTG 01)
19	07:24	15:16 (WTG 02)	06:52	15:15 (WTG 02)	06:08	06:17	05:39	19:08 (WTG 01)	05:27	19:13 (WTG 01)
	17:00	26 15:42 (WTG 02)	17:39	15:15 (WTG 02)	18:11	19:45	20:16	27 19:35 (WTG 01)	20:38	26 19:39 (WTG 01)
20	07:23	15:14 (WTG 02)	06:51	15:17 (WTG 02)	06:06	06:15	05:38	19:07 (WTG 01)	05:27	19:14 (WTG 01)
	17:01	29 15:43 (WTG 02)	17:40	15:17 (WTG 02)	18:12	19:46	20:17	29 19:36 (WTG 01)	20:38	26 19:40 (WTG 01)
21	07:23	15:14 (WTG 02)	06:49	15:19 (WTG 02)	06:04	06:14	05:37	19:07 (WTG 01)	05:27	19:14 (WTG 01)
	17:02	32 15:46 (WTG 02)	17:41	15:19 (WTG 02)	18:13	19:47	20:18	29 19:36 (WTG 01)	20:38	26 19:40 (WTG 01)
22	07:22	15:13 (WTG 02)	06:48	15:20 (WTG 02)	06:03	06:12	05:37	19:07 (WTG 01)	05:27	19:14 (WTG 01)
	17:03	34 15:47 (WTG 02)	17:42	15:20 (WTG 02)	18:14	19:48	20:19	30 19:37 (WTG 01)	20:38	26 19:40 (WTG 01)
23	07:21	15:12 (WTG 02)	06:46	15:23 (WTG 02)	06:01	06:11	05:36	19:07 (WTG 01)	05:28	19:14 (WTG 01)
	17:05	36 15:48 (WTG 02)	17:43	15:23 (WTG 02)	18:15	19:49	20:20	30 19:37 (WTG 01)	20:38	26 19:40 (WTG 01)
24	07:21	15:11 (WTG 02)	06:45	15:26 (WTG 02)	05:59	06:09	05:35	19:06 (WTG 01)	05:28	19:15 (WTG 01)
	17:06	38 15:49 (WTG 02)	17:45	15:26 (WTG 02)	18:17	19:50	20:21	31 19:37 (WTG 01)	20:39	26 19:41 (WTG 01)
25	07:20	15:10 (WTG 02)	06:43	15:33 (WTG 02)	05:58	06:08	05:34	19:06 (WTG 01)	05:28	19:15 (WTG 01)
	17:07	40 15:50 (WTG 02)	17:46	15:33 (WTG 02)	18:18	19:51	20:22	31 19:37 (WTG 01)	20:39	26 19:41 (WTG 01)
26	07:19	15:10 (WTG 02)	06:42	15:36 (WTG 02)	05:56	06:06	05:34	19:07 (WTG 01)	05:28	19:15 (WTG 01)
	17:08	42 15:52 (WTG 02)	17:47	15:36 (WTG 02)	18:19	19:52	20:23	31 19:38 (WTG 01)	20:39	26 19:41 (WTG 01)
27	07:18	15:10 (WTG 02)	06:40	15:39 (WTG 02)	05:54	06:05	05:33	19:06 (WTG 01)	05:29	19:15 (WTG 01)
	17:10	43 15:53 (WTG 02)	17:48	15:39 (WTG 02)	18:20	19:53	20:24	31 19:37 (WTG 01)	20:39	27 19:42 (WTG 01)
28	07:17	15:09 (WTG 02)	06:39	15:42 (WTG 02)	05:53	06:04	05:32	19:07 (WTG 01)	05:29	19:15 (WTG 01)
	17:11	44 15:53 (WTG 02)	17:49	15:42 (WTG 02)	18:21	19:54	20:24	31 19:38 (WTG 01)	20:39	27 19:42 (WTG 01)
29	07:16	15:09 (WTG 02)	06:38	15:45 (WTG 02)	05:51	06:02	05:32	19:07 (WTG 01)	05:30	19:15 (WTG 01)
	17:12	45 15:54 (WTG 02)	17:50	15:45 (WTG 02)	18:22	19:56	20:25	31 19:38 (WTG 01)	20:39	27 19:42 (WTG 01)
30	07:16	15:08 (WTG 02)	06:37	15:48 (WTG 02)	05:49	06:01	05:31	19:07 (WTG 01)	05:30	19:15 (WTG 01)
	17:13	47 15:55 (WTG 02)	17:51	15:48 (WTG 02)	18:23	19:57	20:26	31 19:38 (WTG 01)	20:39	27 19:42 (WTG 01)
31	07:15	15:08 (WTG 02)	06:36	15:51 (WTG 02)	05:48	06:00	05:31	19:07 (WTG 01)	05:30	19:15 (WTG 01)
	17:15	48 15:56 (WTG 02)	17:52	15:51 (WTG 02)	18:24	19:58	20:27	31 19:38 (WTG 01)	20:39	27 19:42 (WTG 01)
Ore potenziali eliofanìa	296	297	369	399	449	545	454	822		
Totale, caso peggiore	563	1046								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 20 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (315)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:30	19:15 (WTG 01)	05:55	19:26 (WTG 01)	06:26	06:57			06:32	14:38 (WTG 02)	07:07	
	20:39	27 19:42 (WTG 01)	20:19	11 19:37 (WTG 01)	19:36	18:45			16:57	50 15:28 (WTG 02)	16:32	
2	05:31	19:16 (WTG 01)	05:56		06:27	06:58			06:33	14:38 (WTG 02)	07:08	
	20:39	27 19:43 (WTG 01)	20:18		19:34	18:43			16:56	51 15:29 (WTG 02)	16:32	
3	05:32	19:15 (WTG 01)	05:57		06:28	06:59			06:34	14:38 (WTG 02)	07:09	
	20:38	28 19:43 (WTG 01)	20:17		19:32	18:41			16:55	50 15:28 (WTG 02)	16:32	
4	05:32	19:15 (WTG 01)	05:58		06:29	07:00			06:35	14:37 (WTG 02)	07:10	
	20:38	29 19:44 (WTG 01)	20:16		19:31	18:39			16:54	51 15:28 (WTG 02)	16:32	
5	05:33	19:15 (WTG 01)	05:59		06:30	07:01			06:36	14:37 (WTG 02)	07:11	
	20:38	29 19:44 (WTG 01)	20:15		19:29	18:38			16:52	51 15:28 (WTG 02)	16:31	
6	05:33	19:15 (WTG 01)	06:00		06:31	07:02			06:38	14:38 (WTG 02)	07:12	
	20:38	29 19:44 (WTG 01)	20:14		19:27	18:36			16:51	50 15:28 (WTG 02)	16:31	
7	05:34	19:16 (WTG 01)	06:01		06:32	07:03			06:39	14:38 (WTG 02)	07:13	
	20:37	29 19:45 (WTG 01)	20:12		19:26	18:34			16:50	50 15:28 (WTG 02)	16:31	
8	05:34	19:15 (WTG 01)	06:02		06:33	07:04			06:40	14:38 (WTG 02)	07:14	
	20:37	30 19:45 (WTG 01)	20:11		19:24	18:33			16:49	49 15:27 (WTG 02)	16:31	
9	05:35	19:15 (WTG 01)	06:03		06:34	07:05			06:41	14:39 (WTG 02)	07:15	
	20:37	30 19:45 (WTG 01)	20:10		19:22	18:31			16:48	49 15:28 (WTG 02)	16:31	
10	05:36	19:16 (WTG 01)	06:04		06:35	07:06			06:42	14:39 (WTG 02)	07:16	
	20:36	30 19:46 (WTG 01)	20:09		19:21	18:30			16:47	48 15:27 (WTG 02)	16:31	
11	05:37	19:15 (WTG 01)	06:05		06:36	07:07			06:44	14:39 (WTG 02)	07:16	
	20:36	31 19:46 (WTG 01)	20:07		19:19	18:28			16:46	47 15:26 (WTG 02)	16:31	
12	05:37	19:15 (WTG 01)	06:06		06:37	07:09			06:45	14:40 (WTG 02)	07:17	
	20:35	31 19:46 (WTG 01)	20:06		19:17	18:26			16:45	47 15:27 (WTG 02)	16:31	
13	05:38	19:16 (WTG 01)	06:07		06:38	07:10			06:46	14:41 (WTG 02)	07:18	
	20:35	31 19:47 (WTG 01)	20:05		19:15	18:25			16:44	45 15:26 (WTG 02)	16:31	
14	05:39	19:15 (WTG 01)	06:08		06:39	07:11			06:47	14:41 (WTG 02)	07:19	
	20:34	31 19:46 (WTG 01)	20:03		19:14	18:23			16:43	44 15:25 (WTG 02)	16:32	
15	05:40	19:15 (WTG 01)	06:09		06:40	07:12			06:48	14:42 (WTG 02)	07:20	
	20:34	31 19:46 (WTG 01)	20:02		19:12	18:22			16:42	43 15:25 (WTG 02)	16:32	
16	05:40	19:16 (WTG 01)	06:10		06:41	07:13			06:50	14:43 (WTG 02)	07:20	
	20:33	31 19:47 (WTG 01)	20:00		19:10	18:20			16:41	42 15:25 (WTG 02)	16:32	
17	05:41	19:16 (WTG 01)	06:11		06:42	07:14	16:01 (WTG 02)		06:51	14:44 (WTG 02)	07:21	
	20:33	31 19:47 (WTG 01)	19:59		19:09	18:18	11 16:12 (WTG 02)		16:40	40 15:24 (WTG 02)	16:32	
18	05:42	19:16 (WTG 01)	06:12		06:43	07:15	15:56 (WTG 02)		06:52	14:45 (WTG 02)	07:22	
	20:32	31 19:47 (WTG 01)	19:57		19:07	18:17	20 16:16 (WTG 02)		16:40	38 15:23 (WTG 02)	16:33	
19	05:43	19:16 (WTG 01)	06:13		06:44	07:16	15:53 (WTG 02)		06:53	14:46 (WTG 02)	07:22	
	20:31	30 19:46 (WTG 01)	19:56		19:05	18:15	25 16:18 (WTG 02)		16:39	36 15:22 (WTG 02)	16:33	
20	05:44	19:16 (WTG 01)	06:14		06:45	07:17	15:50 (WTG 02)		06:54	14:48 (WTG 02)	07:23	
	20:30	30 19:46 (WTG 01)	19:55		19:03	18:14	30 16:20 (WTG 02)		16:38	34 15:22 (WTG 02)	16:34	
21	05:45	19:17 (WTG 01)	06:15		06:46	07:19	15:49 (WTG 02)		06:56	14:49 (WTG 02)	07:24	
	20:30	30 19:47 (WTG 01)	19:53		19:02	18:12	33 16:22 (WTG 02)		16:37	32 15:21 (WTG 02)	16:34	
22	05:45	19:17 (WTG 01)	06:16		06:47	07:20	15:47 (WTG 02)		06:57	14:50 (WTG 02)	07:24	
	20:29	29 19:46 (WTG 01)	19:52		19:00	18:11	36 16:23 (WTG 02)		16:37	29 15:19 (WTG 02)	16:34	
23	05:46	19:18 (WTG 01)	06:17		06:48	07:21	15:45 (WTG 02)		06:58	14:52 (WTG 02)	07:25	
	20:28	28 19:46 (WTG 01)	19:50		18:58	18:09	39 16:24 (WTG 02)		16:36	26 15:18 (WTG 02)	16:35	
24	05:47	19:18 (WTG 01)	06:18		06:49	07:22	15:43 (WTG 02)		06:59	14:55 (WTG 02)	07:25	
	20:27	28 19:46 (WTG 01)	19:48		18:57	18:08	42 16:25 (WTG 02)		16:36	22 15:17 (WTG 02)	16:35	
25	05:48	19:19 (WTG 01)	06:19		06:50	06:23	14:42 (WTG 02)		07:00	14:57 (WTG 02)	07:25	
	20:26	27 19:46 (WTG 01)	19:47		18:55	17:07	43 15:25 (WTG 02)		16:35	18 15:15 (WTG 02)	16:36	
26	05:49	19:19 (WTG 01)	06:20		06:52	06:24	14:42 (WTG 02)		07:01	14:59 (WTG 02)	07:26	
	20:25	26 19:45 (WTG 01)	19:45		18:53	17:05	44 15:26 (WTG 02)		16:34	14 15:13 (WTG 02)	16:37	
27	05:50	19:19 (WTG 01)	06:21		06:53	06:26	14:41 (WTG 02)		07:03	15:03 (WTG 02)	07:26	
	20:25	25 19:44 (WTG 01)	19:44		18:51	17:04	46 15:27 (WTG 02)		16:34	6 15:09 (WTG 02)	16:37	
28	05:51	19:20 (WTG 01)	06:22		06:54	06:27	14:40 (WTG 02)		07:04		07:26	
	20:24	23 19:43 (WTG 01)	19:42		18:50	17:02	47 15:27 (WTG 02)		16:34		16:38	
29	05:52	19:21 (WTG 01)	06:23		06:55	06:28	14:39 (WTG 02)		07:05		07:27	
	20:23	21 19:42 (WTG 01)	19:41		18:48	17:01	48 15:27 (WTG 02)		16:33		16:39	
30	05:53	19:22 (WTG 01)	06:24		06:56	06:29	14:39 (WTG 02)		07:06		07:27	
	20:22	19 19:41 (WTG 01)	19:39		18:46	17:00	49 15:28 (WTG 02)		16:33		16:39	
31	05:54	19:24 (WTG 01)	06:25			06:30	14:38 (WTG 02)				07:27	
	20:20	15 19:39 (WTG 01)	19:37			16:59	50 15:28 (WTG 02)				16:40	
Ore potenziali eliofanía	460		429		375	345	563		297	1062	286	
Totale, caso peggiore	867		11									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 21 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (331)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno		
1	07:27	07:14	15:08 (WTG 02)	06:37	06:46	05:59				05:30	19:05 (WTG 01)	
	16:41	17:16	47 15:55 (WTG 02)	17:51	19:25	19:58				20:28	20 19:25 (WTG 01)	
2	07:28	07:13	15:08 (WTG 02)	06:36	06:44	05:58				05:30	19:06 (WTG 01)	
	16:42	17:17	47 15:55 (WTG 02)	17:52	19:26	19:59				20:28	17 19:23 (WTG 01)	
3	07:28	07:12	15:08 (WTG 02)	06:34	06:42	05:57				05:29	19:07 (WTG 01)	
	16:43	17:18	47 15:55 (WTG 02)	17:53	19:27	20:00				20:29	16 19:23 (WTG 01)	
4	07:28	07:11	15:09 (WTG 02)	06:33	06:41	05:56		19:09 (WTG 01)		05:29	19:08 (WTG 01)	
	16:44	17:20	47 15:56 (WTG 02)	17:54	19:29	20:01	9	19:18 (WTG 01)		20:30	15 19:23 (WTG 01)	
5	07:28	07:10	15:09 (WTG 02)	06:31	06:39	05:54		19:06 (WTG 01)		05:28	19:09 (WTG 01)	
	16:45	17:21	47 15:56 (WTG 02)	17:55	19:30	20:02	15	19:21 (WTG 01)		20:31	12 19:21 (WTG 01)	
6	07:28	07:08	15:09 (WTG 02)	06:29	06:37	05:53		19:04 (WTG 01)		05:28	19:10 (WTG 01)	
	16:46	17:22	46 15:55 (WTG 02)	17:56	19:31	20:03	19	19:23 (WTG 01)		20:31	11 19:21 (WTG 01)	
7	07:28	07:07	15:09 (WTG 02)	06:28	06:36	05:52		19:03 (WTG 01)		05:28	19:12 (WTG 01)	
	16:47	17:24	46 15:55 (WTG 02)	17:58	19:32	20:04	21	19:24 (WTG 01)		20:32	8 19:20 (WTG 01)	
8	07:27	07:06	15:10 (WTG 02)	06:26	06:34	05:51		19:02 (WTG 01)		05:28	19:15 (WTG 01)	
	16:48	17:25	45 15:55 (WTG 02)	17:59	19:33	20:05	23	19:25 (WTG 01)		20:33	3 19:18 (WTG 01)	
9	07:27	07:05	15:11 (WTG 02)	06:24	06:33	05:49		19:00 (WTG 01)		05:27		
	16:49	17:26	44 15:55 (WTG 02)	18:00	19:34	20:06	25	19:25 (WTG 01)		20:33		
10	07:27	15:20 (WTG 02)	07:04	15:12 (WTG 02)	06:23	06:31	05:48	19:00 (WTG 01)		05:27		
	16:50	9 15:29 (WTG 02)	17:27	43 15:55 (WTG 02)	18:01	19:35	20:07	26	19:26 (WTG 01)		20:34	
11	07:27	15:18 (WTG 02)	07:03	15:12 (WTG 02)	06:21	06:29	05:47	18:59 (WTG 01)		05:27		
	16:51	14 15:32 (WTG 02)	17:29	41 15:53 (WTG 02)	18:02	19:36	20:08	28	19:27 (WTG 01)		20:34	
12	07:27	15:16 (WTG 02)	07:01	15:13 (WTG 02)	06:20	06:28	05:46	18:59 (WTG 01)		05:27		
	16:52	18 15:34 (WTG 02)	17:30	40 15:53 (WTG 02)	18:03	19:37	20:09	28	19:27 (WTG 01)		20:35	
13	07:26	15:15 (WTG 02)	07:00	15:14 (WTG 02)	06:18	06:26	05:45	18:58 (WTG 01)		05:27		
	16:53	21 15:36 (WTG 02)	17:31	39 15:53 (WTG 02)	18:04	19:38	20:10	29	19:27 (WTG 01)		20:35	
14	07:26	15:15 (WTG 02)	06:59	15:15 (WTG 02)	06:16	06:25	05:44	18:58 (WTG 01)		05:27		
	16:54	23 15:38 (WTG 02)	17:32	36 15:51 (WTG 02)	18:06	19:39	20:11	30	19:28 (WTG 01)		20:36	
15	07:26	15:13 (WTG 02)	06:58	15:17 (WTG 02)	06:15	06:23	05:43	18:58 (WTG 01)		05:27		
	16:55	27 15:40 (WTG 02)	17:34	33 15:50 (WTG 02)	18:07	19:40	20:12	30	19:28 (WTG 01)		20:36	
16	07:25	15:13 (WTG 02)	06:56	15:19 (WTG 02)	06:13	06:21	05:42	18:58 (WTG 01)		05:27		
	16:56	29 15:42 (WTG 02)	17:35	30 15:49 (WTG 02)	18:08	19:42	20:13	30	19:28 (WTG 01)		20:37	
17	07:25	15:12 (WTG 02)	06:55	15:20 (WTG 02)	06:11	06:20	05:41	18:59 (WTG 01)		05:27		
	16:58	30 15:42 (WTG 02)	17:36	27 15:47 (WTG 02)	18:09	19:43	20:14	30	19:29 (WTG 01)		20:37	
18	07:24	15:11 (WTG 02)	06:53	15:23 (WTG 02)	06:10	06:18	05:40	18:59 (WTG 01)		05:27		
	16:59	32 15:43 (WTG 02)	17:37	22 15:45 (WTG 02)	18:10	19:44	20:15	30	19:29 (WTG 01)		20:37	
19	07:24	15:11 (WTG 02)	06:52	15:25 (WTG 02)	06:08	06:17	05:39	18:59 (WTG 01)		05:27		
	17:00	34 15:45 (WTG 02)	17:39	17 15:42 (WTG 02)	18:11	19:45	20:16	29	19:28 (WTG 01)		20:38	
20	07:23	15:10 (WTG 02)	06:51	15:33 (WTG 02)	06:06	06:15	05:38	18:59 (WTG 01)		05:27		
	17:01	36 15:46 (WTG 02)	17:40	2 15:35 (WTG 02)	18:12	19:46	20:17	29	19:28 (WTG 01)		20:38	
21	07:23	15:10 (WTG 02)	06:49		06:04	06:14	05:37	18:59 (WTG 01)		05:27		
	17:02	38 15:48 (WTG 02)	17:41		18:13	19:47	20:18	29	19:28 (WTG 01)		20:38	
22	07:22	15:10 (WTG 02)	06:48		06:03	06:12	05:37	19:00 (WTG 01)		05:27		
	17:03	38 15:48 (WTG 02)	17:42		18:14	19:48	20:19	28	19:28 (WTG 01)		20:38	
23	07:21	15:09 (WTG 02)	06:46		06:01	06:11	05:36	19:00 (WTG 01)		05:28		
	17:05	40 15:49 (WTG 02)	17:43		18:15	19:49	20:20	28	19:28 (WTG 01)		20:38	
24	07:21	15:08 (WTG 02)	06:45		05:59	06:09	05:35	19:00 (WTG 01)		05:28		
	17:06	42 15:50 (WTG 02)	17:45		18:17	19:50	20:21	27	19:27 (WTG 01)		20:39	
25	07:20	15:08 (WTG 02)	06:43		05:58	06:08	05:34	19:00 (WTG 01)		05:28		
	17:07	42 15:50 (WTG 02)	17:46		18:18	19:51	20:22	27	19:27 (WTG 01)		20:39	
26	07:19	15:09 (WTG 02)	06:42		05:56	06:06	05:34	19:01 (WTG 01)		05:28		
	17:08	43 15:52 (WTG 02)	17:47		18:19	19:52	20:23	26	19:27 (WTG 01)		20:39	
27	07:18	15:08 (WTG 02)	06:40		05:54	06:05	05:33	19:01 (WTG 01)		05:29		
	17:10	45 15:53 (WTG 02)	17:48		18:20	19:53	20:24	25	19:26 (WTG 01)		20:39	
28	07:17	15:08 (WTG 02)	06:39		05:53	06:04	05:32	19:02 (WTG 01)		05:29		
	17:11	45 15:53 (WTG 02)	17:49		18:21	19:54	20:24	24	19:26 (WTG 01)		20:39	
29	07:16	15:08 (WTG 02)			06:51	06:02	05:32	19:03 (WTG 01)		05:30		
	17:12	46 15:54 (WTG 02)			19:22	19:56	20:25	23	19:26 (WTG 01)		20:39	
30	07:16	15:08 (WTG 02)			06:49	06:01	05:31	19:04 (WTG 01)		05:30		
	17:13	46 15:54 (WTG 02)			19:23	19:57	20:26	22	19:26 (WTG 01)		20:39	
31	07:15	15:08 (WTG 02)			06:48		05:31	19:04 (WTG 01)				
	17:15	46 15:54 (WTG 02)			19:24		20:27	21	19:25 (WTG 01)			
Ore potenziali eliofanìa	296		297		369		399	449		711	454	102
Totale, caso peggiore	744		746									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 21 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (331)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre							
1	05:30		05:55		19:10 (WTG 01)		06:26		06:57		06:32		14:40 (WTG 02)		07:07		15:00 (WTG 02)
	20:39		20:19		19:37 (WTG 01)		19:36		18:45		16:57	44	15:24 (WTG 02)		16:32	14	15:14 (WTG 02)
2	05:31		05:56		19:10 (WTG 01)		06:27		06:58		06:33		14:41 (WTG 02)		07:08		15:03 (WTG 02)
	20:39		20:18		19:37 (WTG 01)		19:34		18:43		16:56	44	15:25 (WTG 02)		16:32	9	15:12 (WTG 02)
3	05:32		05:57		19:11 (WTG 01)		06:28		06:59		06:34		14:40 (WTG 02)		07:09		
	20:38		20:17		19:36 (WTG 01)		19:32		18:41		16:55	45	15:25 (WTG 02)		16:32		
4	05:32		05:58		19:11 (WTG 01)		06:29		07:00		06:35		14:39 (WTG 02)		07:10		
	20:38		20:16		19:36 (WTG 01)		19:31		18:39		16:54	46	15:25 (WTG 02)		16:32		
5	05:33		05:59		19:12 (WTG 01)		06:30		07:01		06:36		14:38 (WTG 02)		07:11		
	20:38	6	19:24 (WTG 01)		20:15		19:35 (WTG 01)		19:29		16:52	47	15:25 (WTG 02)		16:31		
6	05:33		06:00		19:13 (WTG 01)		06:31		07:02		06:38		14:39 (WTG 02)		07:12		
	20:38	9	19:26 (WTG 01)		20:14		19:34 (WTG 01)		19:27		16:51	47	15:26 (WTG 02)		16:31		
7	05:34		06:01		19:15 (WTG 01)		06:32		07:03		06:39		14:39 (WTG 02)		07:13		
	20:37	12	19:28 (WTG 01)		20:12		19:32 (WTG 01)		19:26		16:50	46	15:25 (WTG 02)		16:31		
8	05:34		06:02		19:15 (WTG 01)		06:33		07:04		06:40		14:38 (WTG 02)		07:14		
	20:37	14	19:29 (WTG 01)		20:11		19:30 (WTG 01)		19:24		16:49	47	15:25 (WTG 02)		16:31		
9	05:35		06:03		19:15 (WTG 01)		06:34		07:05		06:41		14:39 (WTG 02)		07:15		
	20:37	15	19:30 (WTG 01)		20:10		19:20 (WTG 01)		19:22		16:48	47	15:26 (WTG 02)		16:31		
10	05:36		06:04		19:14 (WTG 01)		06:35		07:06		06:42		14:39 (WTG 02)		07:16		
	20:36	17	19:31 (WTG 01)		20:09		19:21		18:30		16:47	47	15:26 (WTG 02)		16:31		
11	05:37		06:05		19:13 (WTG 01)		06:36		07:07		06:44		14:39 (WTG 02)		07:16		
	20:36	19	19:32 (WTG 01)		20:07		19:19		18:28		16:46	46	15:25 (WTG 02)		16:31		
12	05:37		06:06		19:13 (WTG 01)		06:37		07:09		06:45		14:40 (WTG 02)		07:17		
	20:35	20	19:33 (WTG 01)		20:06		19:17		18:26		16:45	46	15:26 (WTG 02)		16:31		
13	05:38		06:07		19:12 (WTG 01)		06:38		07:10		06:46		14:40 (WTG 02)		07:18		
	20:35	22	19:34 (WTG 01)		20:05		19:15		18:25		16:44	45	15:25 (WTG 02)		16:31		
14	05:39		06:08		19:11 (WTG 01)		06:39		07:11		06:47		14:40 (WTG 02)		07:19		
	20:34	23	19:34 (WTG 01)		20:03		19:14		18:23		16:43	45	15:25 (WTG 02)		16:32		
15	05:40		06:09		19:11 (WTG 01)		06:40		07:12		06:48		14:40 (WTG 02)		07:20		
	20:34	24	19:35 (WTG 01)		20:02		19:12		18:22		16:42	44	15:24 (WTG 02)		16:32		
16	05:40		06:10		19:11 (WTG 01)		06:41		07:13		06:50		14:42 (WTG 02)		07:20		
	20:33	24	19:35 (WTG 01)		20:00		19:10		18:20		16:41	43	15:25 (WTG 02)		16:32		
17	05:41		06:11		19:11 (WTG 01)		06:42		07:14		06:51		14:42 (WTG 02)		07:21		
	20:33	25	19:36 (WTG 01)		19:59		19:09		18:18		16:40	42	15:24 (WTG 02)		16:32		
18	05:42		06:12		19:11 (WTG 01)		06:43		07:15		06:52		14:42 (WTG 02)		07:22		
	20:32	26	19:37 (WTG 01)		19:57		19:07		18:17		16:40	42	15:24 (WTG 02)		16:33		
19	05:43		06:13		19:09 (WTG 01)		06:44		07:16		06:53		14:43 (WTG 02)		07:22		
	20:31	28	19:37 (WTG 01)		19:56		19:05		18:15		16:39	40	15:23 (WTG 02)		16:33		
20	05:44		06:14		19:09 (WTG 01)		06:45		07:17		06:54		14:45 (WTG 02)		07:23		
	20:30	28	19:37 (WTG 01)		19:55		19:03		18:14		16:38	38	15:23 (WTG 02)		16:33		
21	05:45		06:15		19:09 (WTG 01)		06:46		07:19		06:56		14:45 (WTG 02)		07:24		
	20:30	29	19:38 (WTG 01)		19:53		19:02		18:12		16:37	38	15:23 (WTG 02)		16:34		
22	05:45		06:16		19:09 (WTG 01)		06:47		07:20		06:57		14:46 (WTG 02)		07:24		
	20:29	29	19:38 (WTG 01)		19:52		19:00		18:11		16:37	36	15:22 (WTG 02)		16:34		
23	05:46		06:17		19:09 (WTG 01)		06:48		07:21		06:58		14:47 (WTG 02)		07:25		
	20:28	29	19:38 (WTG 01)		19:50		18:58		18:09		16:36	34	15:21 (WTG 02)		16:35		
24	05:47		06:18		19:09 (WTG 01)		06:49		07:22		06:59		14:49 (WTG 02)		07:25		
	20:27	30	19:39 (WTG 01)		19:48		18:57		18:08		16:36	32	15:21 (WTG 02)		16:35		
25	05:48		06:19		19:09 (WTG 01)		06:50		07:23		07:00		14:50 (WTG 02)		07:25		
	20:26	30	19:39 (WTG 01)		19:47		18:55		17:07		16:35	31	15:21 (WTG 02)		16:36		
26	05:49		06:20		19:09 (WTG 01)		06:52		07:24		07:01		14:51 (WTG 02)		07:26		
	20:25	30	19:39 (WTG 01)		19:45		18:53		17:05		16:34	29	15:20 (WTG 02)		16:37		
27	05:50		06:21		19:08 (WTG 01)		06:53		07:26		07:03		14:52 (WTG 02)		07:26		
	20:25	30	19:38 (WTG 01)		19:44		18:51		17:04		16:34	27	15:19 (WTG 02)		16:37		
28	05:51		06:22		19:08 (WTG 01)		06:54		07:27		07:04		14:54 (WTG 02)		07:26		
	20:24	30	19:38 (WTG 01)		19:42		18:50		17:02		16:34	24	15:18 (WTG 02)		16:38		
29	05:52		06:23		19:09 (WTG 01)		06:55		07:28		07:05		14:56 (WTG 02)		07:27		
	20:23	29	19:38 (WTG 01)		19:41		18:48		17:01		16:33	21	15:17 (WTG 02)		16:39		
30	05:53		06:24		19:09 (WTG 01)		06:56		07:29		07:06		14:58 (WTG 02)		07:27		
	20:22	29	19:38 (WTG 01)		19:39		18:46		17:00		16:33	18	15:16 (WTG 02)		16:39		
31	05:54		06:25		19:09 (WTG 01)				06:30						07:27		
	20:20	29	19:38 (WTG 01)		19:37				16:59						16:40		
Ore potenziali eliofanìa	460		429				375		345		297				286		23
Totale, caso peggiore	636		186				301		1181								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 22 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (332)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	15:13 (WTG 02) 15:57 (WTG 02)	06:37 17:51	06:46 19:25	05:59 19:58	
2	07:28 16:42	07:13 17:17	15:13 (WTG 02) 15:58 (WTG 02)	06:36 17:52	06:44 19:26	05:58 19:59	9 19:08 (WTG 01) 19:10 (WTG 01)
3	07:28 16:43	07:12 17:18	15:13 (WTG 02) 15:58 (WTG 02)	06:34 17:53	06:42 19:27	05:57 20:00	4 19:14 (WTG 01)
4	07:28 16:44	07:11 17:20	15:13 (WTG 02) 15:58 (WTG 02)	06:33 17:54	06:41 19:29	05:56 20:01	
5	07:28 16:45	07:10 17:21	15:13 (WTG 02) 15:58 (WTG 02)	06:31 17:55	06:39 19:30	05:54 20:02	
6	07:28 16:46	07:08 17:22	15:13 (WTG 02) 15:58 (WTG 02)	06:29 17:56	06:37 19:31	05:53 20:03	
7	07:28 16:47	07:07 17:24	15:13 (WTG 02) 15:58 (WTG 02)	06:28 17:58	06:36 19:32	05:52 20:04	
8	07:27 16:48	07:06 17:25	15:14 (WTG 02) 15:58 (WTG 02)	06:26 17:59	06:34 19:33	05:51 20:05	
9	07:27 16:49	07:05 17:26	15:15 (WTG 02) 15:58 (WTG 02)	06:24 18:00	06:33 19:34	05:49 20:06	
10	07:27 16:50	07:04 17:27	15:15 (WTG 02) 15:58 (WTG 02)	06:23 18:01	06:31 19:35	05:48 20:07	
11	07:27 16:51	07:03 17:29	15:15 (WTG 02) 15:57 (WTG 02)	06:21 18:02	06:29 19:36	05:47 20:08	
12	07:27 16:52	07:01 17:30	15:17 (WTG 02) 15:56 (WTG 02)	06:20 18:03	06:28 19:37	05:46 20:09	
13	07:26 16:53	07:00 17:31	15:18 (WTG 02) 15:56 (WTG 02)	06:18 18:04	06:26 19:38	05:45 20:10	
14	07:26 16:54	06:59 17:32	15:18 (WTG 02) 15:55 (WTG 02)	06:16 18:06	06:25 19:39	05:44 20:11	
15	07:26 16:55	06:58 17:34	15:20 (WTG 02) 15:54 (WTG 02)	06:15 18:07	06:23 19:40	05:43 20:12	
16	07:25 16:56	06:56 17:35	15:22 (WTG 02) 15:53 (WTG 02)	06:13 18:08	06:21 19:41	05:42 20:13	
17	07:25 16:58	06:55 17:36	15:23 (WTG 02) 15:51 (WTG 02)	06:11 18:09	06:20 19:43	05:41 20:14	
18	07:24 16:59	06:53 17:37	15:25 (WTG 02) 15:49 (WTG 02)	06:10 18:10	06:18 19:44	05:40 20:15	
19	07:24 17:00	06:52 17:39	15:27 (WTG 02) 15:46 (WTG 02)	06:08 18:11	06:17 19:45	05:39 20:16	
20	07:23 17:01	06:51 17:40	15:32 (WTG 02) 15:43 (WTG 02)	06:06 18:12	06:15 19:46	05:38 20:17	
21	07:23 17:02	06:49 17:41		06:04 18:13	06:14 19:47	05:37 20:18	
22	07:22 17:03	06:48 17:42		06:03 18:14	06:12 19:48	05:37 20:19	
23	07:21 17:05	06:46 17:43		06:01 18:15	06:11 19:49	05:36 20:20	
24	07:21 17:06	06:45 17:45		05:59 18:17	06:09 19:50	05:35 20:21	
25	07:20 17:07	06:43 17:46		05:58 18:18	06:08 19:51	05:34 20:22	
26	07:19 17:08	06:42 17:47		05:56 18:19	06:06 19:52	05:34 20:23	
27	07:18 17:10	06:40 17:48		05:54 18:20	06:05 19:53	05:33 20:24	
28	07:17 17:11	06:39 17:49		05:53 18:21	06:04 19:54	05:32 20:24	
29	07:16 17:12	06:39 17:49		05:53 18:21	06:04 19:54	05:32 20:24	
30	07:16 17:13	06:39 17:49		05:53 18:21	06:04 19:54	05:32 20:24	
31	07:15 17:15	06:39 17:49		05:53 18:21	06:04 19:54	05:32 20:24	
Ore potenziali eliofanìa	296	297	369	399	449	454	
Totale, caso peggiore	589	747			700		13

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 22 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (332)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	19:07 (WTG 01)	06:26 18:45	06:32 16:57	14:44 (WTG 02) 07:07
2	05:31 20:39	05:56 20:18	19:07 (WTG 01)	06:27 18:43	06:33 16:56	43 15:27 (WTG 02) 16:32
3	05:32 20:38	05:57 20:17	19:08 (WTG 01)	06:28 18:41	06:34 16:55	44 15:28 (WTG 02) 16:32
4	05:32 20:38	05:58 20:16	19:08 (WTG 01)	06:29 18:39	06:35 16:54	44 15:28 (WTG 02) 16:32
5	05:33 20:38	05:59 20:15	19:09 (WTG 01)	06:30 18:38	06:36 16:52	45 15:28 (WTG 02) 16:31
6	05:33 20:38	06:00 20:14	19:09 (WTG 01)	06:31 18:36	06:38 16:51	45 15:28 (WTG 02) 16:31
7	05:34 20:37	06:01 20:12	19:10 (WTG 01)	06:32 18:34	06:39 16:50	45 15:28 (WTG 02) 16:31
8	05:34 20:37	06:02 20:11	19:11 (WTG 01)	06:33 18:33	06:40 16:49	45 15:28 (WTG 02) 16:31
9	05:35 20:37	06:03 20:10	19:13 (WTG 01)	06:34 18:31	06:41 16:48	45 15:28 (WTG 02) 16:31
10	05:36 20:36	06:04 20:09	19:15 (WTG 01)	06:35 18:30	06:42 16:47	45 15:28 (WTG 02) 16:31
11	05:37 20:36	19:16 (WTG 01) 06:05 19:24 (WTG 01) 20:07	3 19:22 (WTG 01)	06:36 18:28	06:44 16:46	45 15:28 (WTG 02) 16:31
12	05:37 20:35	19:15 (WTG 01) 06:06 19:26 (WTG 01) 20:06		06:37 18:26	06:45 16:45	43 15:28 (WTG 02) 16:31
13	05:38 20:35	19:14 (WTG 01) 06:07 19:28 (WTG 01) 20:05		06:38 18:25	06:46 16:44	43 15:28 (WTG 02) 16:31
14	05:39 20:34	19:12 (WTG 01) 06:08 19:28 (WTG 01) 20:03		06:39 18:23	06:47 16:43	42 15:27 (WTG 02) 16:32
15	05:40 20:34	19:12 (WTG 01) 06:09 19:29 (WTG 01) 20:02		06:40 18:22	06:48 16:42	41 15:26 (WTG 02) 16:32
16	05:40 20:33	19:11 (WTG 01) 06:10 19:30 (WTG 01) 20:00		06:41 18:20	06:50 16:41	40 15:27 (WTG 02) 16:32
17	05:41 20:33	19:11 (WTG 01) 06:11 19:32 (WTG 01) 19:59		06:42 18:18	06:51 16:40	39 15:26 (WTG 02) 16:32
18	05:42 20:32	19:10 (WTG 01) 06:12 19:32 (WTG 01) 19:57		06:43 18:17	06:52 16:40	37 15:25 (WTG 02) 16:33
19	05:43 20:31	19:09 (WTG 01) 06:13 19:32 (WTG 01) 19:56		06:44 18:15	06:53 16:39	35 15:24 (WTG 02) 16:33
20	05:44 20:30	19:09 (WTG 01) 06:14 19:33 (WTG 01) 19:55		06:45 18:14	06:54 16:38	35 15:25 (WTG 02) 16:33
21	05:45 20:30	19:08 (WTG 01) 06:15 19:34 (WTG 01) 19:53		06:46 18:12	06:56 16:37	33 15:24 (WTG 02) 16:34
22	05:45 20:29	19:08 (WTG 01) 06:16 19:34 (WTG 01) 19:52		06:47 18:11	06:57 16:37	31 15:23 (WTG 02) 16:34
23	05:46 20:28	19:08 (WTG 01) 06:17 19:35 (WTG 01) 19:50		06:48 18:09	06:58 16:36	29 15:22 (WTG 02) 16:35
24	05:47 20:27	19:08 (WTG 01) 06:18 19:36 (WTG 01) 19:48		06:49 18:08	06:59 16:36	26 15:22 (WTG 02) 16:35
25	05:48 20:26	19:08 (WTG 01) 06:19 19:36 (WTG 01) 19:47		06:50 18:07	07:00 16:35	23 15:21 (WTG 02) 16:36
26	05:49 20:25	19:08 (WTG 01) 06:20 19:36 (WTG 01) 19:45		06:52 18:05	07:01 16:34	20 15:19 (WTG 02) 16:37
27	05:50 20:25	19:07 (WTG 01) 06:21 19:36 (WTG 01) 19:44		06:53 18:04	07:03 16:34	16 15:17 (WTG 02) 16:37
28	05:51 20:24	19:06 (WTG 01) 06:22 19:36 (WTG 01) 19:42		06:54 18:02	07:04 16:34	12 15:15 (WTG 02) 16:38
29	05:52 20:23	19:07 (WTG 01) 06:23 19:36 (WTG 01) 19:41		06:55 18:01	07:05 16:33	3 15:12 (WTG 02) 16:39
30	05:53 20:22	19:07 (WTG 01) 06:24 19:36 (WTG 01) 19:39		06:56 18:00	07:06 16:33	
31	05:54 20:20	19:07 (WTG 01) 06:25 19:36 (WTG 01) 19:37		06:30 16:59	07:06 16:33	
Ore potenziali eliofanía	460	429	375	345	297	286
Totale, caso peggiore	484	232	314	1039		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 23 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (316)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:14 (WTG 04)	07:14	06:37	06:46				05:59	17:41 (WTG 02)	05:30	17:44 (WTG 02)
	16:41	19 08:33 (WTG 04)	17:16	17:51	19:25				19:58	71 18:52 (WTG 02)	20:28	70 18:54 (WTG 02)
2	07:28	08:14 (WTG 04)	07:13	06:36	06:44				05:58	17:41 (WTG 02)	05:30	17:44 (WTG 02)
	16:42	19 08:33 (WTG 04)	17:17	17:52	19:26				19:59	72 18:53 (WTG 02)	20:28	70 18:54 (WTG 02)
3	07:28	08:15 (WTG 04)	07:12	06:34	06:42				05:57	17:40 (WTG 02)	05:29	17:45 (WTG 02)
	16:43	18 08:33 (WTG 04)	17:18	17:53	19:27				20:00	73 18:53 (WTG 02)	20:29	69 18:54 (WTG 02)
4	07:28	08:16 (WTG 04)	07:11	06:33	06:41				05:56	17:39 (WTG 02)	05:29	17:46 (WTG 02)
	16:44	17 08:33 (WTG 04)	17:20	17:54	19:29				20:01	74 18:53 (WTG 02)	20:30	68 18:54 (WTG 02)
5	07:28	08:16 (WTG 04)	07:10	06:31	06:39				05:54	17:39 (WTG 02)	05:28	17:46 (WTG 02)
	16:45	18 08:34 (WTG 04)	17:21	17:55	19:30				20:02	75 18:54 (WTG 02)	20:31	68 18:54 (WTG 02)
6	07:28	08:17 (WTG 04)	07:08	06:29	06:38				05:53	17:39 (WTG 02)	05:28	17:46 (WTG 02)
	16:46	17 08:34 (WTG 04)	17:22	17:56	19:31				20:03	75 18:54 (WTG 02)	20:31	68 18:54 (WTG 02)
7	07:28	08:18 (WTG 04)	07:07	06:28	06:36				05:52	17:39 (WTG 02)	05:28	17:47 (WTG 02)
	16:47	16 08:34 (WTG 04)	17:24	17:58	19:32				20:04	75 18:54 (WTG 02)	20:32	67 18:54 (WTG 02)
8	07:27	08:20 (WTG 04)	07:06	06:26	06:34				05:51	17:39 (WTG 02)	05:28	17:48 (WTG 02)
	16:48	14 08:34 (WTG 04)	17:25	17:59	19:33				20:05	76 18:55 (WTG 02)	20:33	66 18:54 (WTG 02)
9	07:27	08:20 (WTG 04)	07:05	06:24	06:33				05:49	17:38 (WTG 02)	05:27	17:47 (WTG 02)
	16:49	13 08:33 (WTG 04)	17:26	18:00	19:34				20:06	76 18:54 (WTG 02)	20:33	67 18:54 (WTG 02)
10	07:27	08:22 (WTG 04)	07:04	06:23	06:31				05:48	17:38 (WTG 02)	05:27	17:48 (WTG 02)
	16:50	11 08:33 (WTG 04)	17:27	18:01	19:35				20:07	76 18:54 (WTG 02)	20:34	66 18:54 (WTG 02)
11	07:27	08:24 (WTG 04)	07:03	06:21	06:29				05:47	17:38 (WTG 02)	05:27	17:48 (WTG 02)
	16:51	8 08:32 (WTG 04)	17:29	18:02	19:36				20:08	76 18:54 (WTG 02)	20:34	66 18:54 (WTG 02)
12	07:27	08:26 (WTG 04)	07:01	06:20	06:28				05:46	17:38 (WTG 02)	05:27	17:49 (WTG 02)
	16:52	3 08:29 (WTG 04)	17:30	18:03	19:37				20:09	76 18:54 (WTG 02)	20:35	65 18:54 (WTG 02)
13	07:26		07:00	06:18	06:26				05:45	17:38 (WTG 02)	05:27	17:49 (WTG 02)
	16:53		17:31	18:04	19:38				20:10	77 18:55 (WTG 02)	20:35	65 18:54 (WTG 02)
14	07:26		06:59	06:16	06:25			18:15 (WTG 02)	05:44	17:38 (WTG 02)	05:27	17:50 (WTG 02)
	16:54		17:32	18:06	19:39	9	18:24 (WTG 02)	20:11	77 18:55 (WTG 02)	20:36	64 18:54 (WTG 02)	
15	07:26		06:58	06:15	06:23			18:08 (WTG 02)	05:43	17:38 (WTG 02)	05:27	17:50 (WTG 02)
	16:55		17:34	18:07	19:40	23	18:31 (WTG 02)	20:12	77 18:55 (WTG 02)	20:36	64 18:54 (WTG 02)	
16	07:25		06:56	06:13	06:21			18:03 (WTG 02)	05:42	17:38 (WTG 02)	05:27	17:50 (WTG 02)
	16:56		17:35	18:08	19:41	31	18:34 (WTG 02)	20:13	76 18:54 (WTG 02)	20:37	64 18:54 (WTG 02)	
17	07:25		06:55	06:11	06:20			18:00 (WTG 02)	05:41	17:39 (WTG 02)	05:27	17:50 (WTG 02)
	16:58		17:36	18:09	19:43	38	18:38 (WTG 02)	20:14	76 18:55 (WTG 02)	20:37	65 18:55 (WTG 02)	
18	07:24		06:53	06:10	06:18			17:57 (WTG 02)	05:40	17:39 (WTG 02)	05:27	17:51 (WTG 02)
	16:59		17:37	18:10	19:44	42	18:39 (WTG 02)	20:15	76 18:55 (WTG 02)	20:37	64 18:55 (WTG 02)	
19	07:24		06:52	06:08	06:17			17:55 (WTG 02)	05:39	17:39 (WTG 02)	05:27	17:51 (WTG 02)
	17:00		17:39	18:11	19:45	47	18:42 (WTG 02)	20:16	76 18:55 (WTG 02)	20:38	64 18:55 (WTG 02)	
20	07:23		06:51	06:06	06:15			17:53 (WTG 02)	05:38	17:40 (WTG 02)	05:27	17:52 (WTG 02)
	17:01		17:40	18:12	19:46	50	18:43 (WTG 02)	20:17	75 18:55 (WTG 02)	20:38	64 18:56 (WTG 02)	
21	07:23		06:49	06:04	06:14			17:52 (WTG 02)	05:37	17:40 (WTG 02)	05:27	17:52 (WTG 02)
	17:02		17:41	18:13	19:47	53	18:45 (WTG 02)	20:18	74 18:54 (WTG 02)	20:38	64 18:56 (WTG 02)	
22	07:22		06:48	06:03	06:12			17:49 (WTG 02)	05:37	17:41 (WTG 02)	05:27	17:52 (WTG 02)
	17:04		17:42	18:14	19:48	57	18:46 (WTG 02)	20:19	74 18:55 (WTG 02)	20:38	64 18:56 (WTG 02)	
23	07:21		06:46	06:01	06:11			17:48 (WTG 02)	05:36	17:41 (WTG 02)	05:28	17:52 (WTG 02)
	17:05		17:43	18:15	19:49	59	18:47 (WTG 02)	20:20	74 18:55 (WTG 02)	20:38	64 18:56 (WTG 02)	
24	07:20		06:45	05:59	06:09			17:47 (WTG 02)	05:35	17:41 (WTG 02)	05:28	17:53 (WTG 02)
	17:06		17:45	18:17	19:50	60	18:47 (WTG 02)	20:21	73 18:54 (WTG 02)	20:39	64 18:57 (WTG 02)	
25	07:20		06:43	05:58	06:08			17:46 (WTG 02)	05:34	17:41 (WTG 02)	05:28	17:52 (WTG 02)
	17:07		17:46	18:18	19:51	63	18:49 (WTG 02)	20:22	73 18:54 (WTG 02)	20:39	65 18:57 (WTG 02)	
26	07:19		06:42	05:56	06:06			17:45 (WTG 02)	05:34	17:42 (WTG 02)	05:28	17:52 (WTG 02)
	17:08		17:47	18:19	19:52	65	18:50 (WTG 02)	20:23	73 18:55 (WTG 02)	20:39	64 18:56 (WTG 02)	
27	07:18		06:40	05:54	06:05			17:44 (WTG 02)	05:33	17:42 (WTG 02)	05:29	17:53 (WTG 02)
	17:10		17:48	18:20	19:53	66	18:50 (WTG 02)	20:24	72 18:54 (WTG 02)	20:39	64 18:57 (WTG 02)	
28	07:17		06:39	05:53	06:04			17:43 (WTG 02)	05:32	17:43 (WTG 02)	05:29	17:53 (WTG 02)
	17:11		17:49	18:21	19:54	68	18:51 (WTG 02)	20:24	72 18:55 (WTG 02)	20:39	64 18:57 (WTG 02)	
29	07:16			06:51	06:02			17:42 (WTG 02)	05:32	17:43 (WTG 02)	05:30	17:52 (WTG 02)
	17:12			19:22	19:56	69	18:51 (WTG 02)	20:25	71 18:54 (WTG 02)	20:39	65 18:57 (WTG 02)	
30	07:16			06:49	06:01			17:41 (WTG 02)	05:31	17:44 (WTG 02)	05:30	17:53 (WTG 02)
	17:13			19:23	19:57	71	18:52 (WTG 02)	20:26	71 18:55 (WTG 02)	20:39	65 18:58 (WTG 02)	
31	07:15			06:48					05:31	17:44 (WTG 02)		
	17:15			19:24					20:27	70 18:54 (WTG 02)		
Ore potenziali eliofanìa	296		297	369	399				449		454	
Totale, caso peggiore	173				871				2302			1967

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 23 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (316)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	17:52 (WTG 02)	05:55	17:49 (WTG 02)	06:26	06:57	06:32		07:07		08:06 (WTG 04)	
	20:39	66	18:58 (WTG 02)	20:19	76	19:05 (WTG 02)	19:36	18:45	16:57		16:32	8
2	05:31	17:53 (WTG 02)	05:56	17:49 (WTG 02)	06:27	06:58	06:33		07:08		08:05 (WTG 04)	
	20:39	66	18:59 (WTG 02)	20:18	76	19:05 (WTG 02)	19:34	18:43	16:56		16:32	11
3	05:32	17:52 (WTG 02)	05:57	17:49 (WTG 02)	06:28	06:59	06:34		07:09		08:04 (WTG 04)	
	20:38	67	18:59 (WTG 02)	20:17	76	19:05 (WTG 02)	19:32	18:41	16:55		16:32	13
4	05:32	17:53 (WTG 02)	05:58	17:49 (WTG 02)	06:29	07:00	06:35		07:10		08:04 (WTG 04)	
	20:38	66	18:59 (WTG 02)	20:16	76	19:05 (WTG 02)	19:31	18:39	16:54		16:32	14
5	05:33	17:52 (WTG 02)	05:59	17:49 (WTG 02)	06:30	07:01	06:36		07:11		08:04 (WTG 04)	
	20:38	67	18:59 (WTG 02)	20:15	75	19:04 (WTG 02)	19:29	18:38	16:52		16:31	15
6	05:33	17:53 (WTG 02)	06:00	17:49 (WTG 02)	06:31	07:02	06:38		07:12		08:04 (WTG 04)	
	20:38	67	19:00 (WTG 02)	20:14	75	19:04 (WTG 02)	19:27	18:36	16:51		16:31	16
7	05:34	17:53 (WTG 02)	06:01	17:49 (WTG 02)	06:32	07:03	06:39		07:13		08:04 (WTG 04)	
	20:37	68	19:01 (WTG 02)	20:12	75	19:04 (WTG 02)	19:26	18:34	16:50		16:31	17
8	05:34	17:52 (WTG 02)	06:02	17:49 (WTG 02)	06:33	07:04	06:40		07:14		08:04 (WTG 04)	
	20:37	68	19:00 (WTG 02)	20:11	74	19:03 (WTG 02)	19:24	18:33	16:49		16:31	18
9	05:35	17:52 (WTG 02)	06:03	17:49 (WTG 02)	06:34	07:05	06:41		07:15		08:04 (WTG 04)	
	20:37	69	19:01 (WTG 02)	20:10	74	19:03 (WTG 02)	19:22	18:31	16:48		16:31	18
10	05:36	17:53 (WTG 02)	06:04	17:49 (WTG 02)	06:35	07:06	06:42		07:16		08:04 (WTG 04)	
	20:36	69	19:02 (WTG 02)	20:09	73	19:02 (WTG 02)	19:21	18:30	16:47		16:31	19
11	05:37	17:52 (WTG 02)	06:05	17:50 (WTG 02)	06:36	07:07	06:44		07:16		08:04 (WTG 04)	
	20:36	70	19:02 (WTG 02)	20:07	72	19:02 (WTG 02)	19:19	18:28	16:46		16:31	19
12	05:37	17:52 (WTG 02)	06:06	17:50 (WTG 02)	06:37	07:09	06:45		07:17		08:04 (WTG 04)	
	20:35	70	19:02 (WTG 02)	20:06	71	19:01 (WTG 02)	19:17	18:26	16:45		16:31	20
13	05:38	17:52 (WTG 02)	06:07	17:50 (WTG 02)	06:38	07:10	06:46		07:18		08:05 (WTG 04)	
	20:35	71	19:03 (WTG 02)	20:05	70	19:00 (WTG 02)	19:15	18:25	16:44		16:31	19
14	05:39	17:52 (WTG 02)	06:08	17:51 (WTG 02)	06:39	07:11	06:47		07:19		08:05 (WTG 04)	
	20:34	71	19:03 (WTG 02)	20:03	68	18:59 (WTG 02)	19:14	18:23	16:43		16:32	20
15	05:40	17:51 (WTG 02)	06:09	17:51 (WTG 02)	06:40	07:12	06:48		07:20		08:05 (WTG 04)	
	20:34	72	19:03 (WTG 02)	20:02	68	18:59 (WTG 02)	19:12	18:22	16:42		16:32	20
16	05:40	17:51 (WTG 02)	06:10	17:51 (WTG 02)	06:41	07:13	06:50		07:20		08:06 (WTG 04)	
	20:33	72	19:03 (WTG 02)	20:00	67	18:58 (WTG 02)	19:10	18:20	16:41		16:32	20
17	05:41	17:51 (WTG 02)	06:11	17:52 (WTG 02)	06:42	07:14	06:51		07:21		08:06 (WTG 04)	
	20:33	73	19:04 (WTG 02)	19:59	64	18:56 (WTG 02)	19:09	18:18	16:40		16:32	21
18	05:42	17:51 (WTG 02)	06:12	17:52 (WTG 02)	06:43	07:15	06:52		07:22		08:06 (WTG 04)	
	20:32	73	19:04 (WTG 02)	19:57	62	18:54 (WTG 02)	19:07	18:17	16:40		16:33	21
19	05:43	17:50 (WTG 02)	06:13	17:53 (WTG 02)	06:44	07:16	06:53		07:22		08:07 (WTG 04)	
	20:31	74	19:04 (WTG 02)	19:56	60	18:53 (WTG 02)	19:05	18:15	16:39		16:33	21
20	05:44	17:50 (WTG 02)	06:14	17:53 (WTG 02)	06:45	07:17	06:54		07:23		08:08 (WTG 04)	
	20:30	74	19:04 (WTG 02)	19:55	59	18:52 (WTG 02)	19:03	18:14	16:38		16:34	21
21	05:45	17:50 (WTG 02)	06:15	17:54 (WTG 02)	06:46	07:19	06:56		07:23		08:08 (WTG 04)	
	20:30	75	19:05 (WTG 02)	19:53	56	18:50 (WTG 02)	19:02	18:12	16:37		16:34	20
22	05:45	17:50 (WTG 02)	06:16	17:56 (WTG 02)	06:47	07:20	06:57		07:24		08:09 (WTG 04)	
	20:29	75	19:05 (WTG 02)	19:52	52	18:48 (WTG 02)	19:00	18:11	16:37		16:34	20
23	05:46	17:50 (WTG 02)	06:17	17:57 (WTG 02)	06:48	07:21	06:58		07:25		08:09 (WTG 04)	
	20:28	75	19:05 (WTG 02)	19:50	50	18:47 (WTG 02)	18:58	18:09	16:36		16:35	21
24	05:47	17:50 (WTG 02)	06:18	17:59 (WTG 02)	06:49	07:22	06:59		07:25		08:09 (WTG 04)	
	20:27	75	19:05 (WTG 02)	19:48	45	18:44 (WTG 02)	18:57	18:08	16:36		16:36	21
25	05:48	17:50 (WTG 02)	06:19	18:00 (WTG 02)	06:50	07:23	07:00		07:25		08:10 (WTG 04)	
	20:26	76	19:06 (WTG 02)	19:47	42	18:42 (WTG 02)	18:55	17:07	16:35		16:36	21
26	05:49	17:50 (WTG 02)	06:20	18:03 (WTG 02)	06:52	07:24	07:01		07:26		08:10 (WTG 04)	
	20:25	76	19:06 (WTG 02)	19:45	36	18:39 (WTG 02)	18:53	17:05	16:34		16:37	21
27	05:50	17:49 (WTG 02)	06:21	18:05 (WTG 02)	06:53	07:26	07:03		07:26		08:10 (WTG 04)	
	20:24	76	19:05 (WTG 02)	19:44	31	18:36 (WTG 02)	18:51	17:04	16:34		16:37	21
28	05:51	17:49 (WTG 02)	06:22	18:09 (WTG 02)	06:54	07:27	07:04		07:26		08:11 (WTG 04)	
	20:24	76	19:05 (WTG 02)	19:42	23	18:32 (WTG 02)	18:50	17:02	16:34		16:38	20
29	05:52	17:49 (WTG 02)	06:23	18:17 (WTG 02)	06:55	07:28	07:05		07:27		08:12 (WTG 04)	
	20:23	76	19:05 (WTG 02)	19:41	7	18:24 (WTG 02)	18:48	17:01	16:33		16:39	20
30	05:53	17:49 (WTG 02)	06:24	18:21 (WTG 02)	06:56	07:29	07:06		07:27		08:12 (WTG 04)	
	20:22	76	19:05 (WTG 02)	19:39		18:46	17:00	16:33	3	08:08 (WTG 04)	08:11 (WTG 04)	20
31	05:54	17:49 (WTG 02)	06:25	18:22 (WTG 02)	06:57	07:30	07:07		07:27		08:13 (WTG 04)	
	20:20	76	19:05 (WTG 02)	19:37			16:59				16:40	20
Ore potenziali eliofanìa	460		429		375	345	297				286	576
Totale, caso peggiore	2225		1753					3				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 24 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (317)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	08:13 (WTG 03)	06:37	06:46	06:00	05:30
2	07:28 16:42	07:13 17:17	14 08:27 (WTG 03)	17:51	19:25	19:58	20:28
3	07:28 16:43	07:12 17:19	18 08:11 (WTG 03)	06:36	06:44	05:58	05:30
4	07:28 16:44	07:12 17:17	18 08:29 (WTG 03)	17:52	19:26	19:59	20:28
5	07:28 16:45	07:12 17:19	22 08:09 (WTG 03)	06:34	06:43	05:57	05:29
6	07:28 16:46	07:11 17:20	25 08:31 (WTG 03)	17:53	19:27	20:00	20:29
7	07:28 16:47	07:11 17:20	25 08:08 (WTG 03)	06:33	06:41	05:56	05:29
8	07:27 16:48	07:10 17:21	26 08:33 (WTG 03)	17:54	19:29	20:01	20:30
9	07:27 16:49	07:10 17:21	26 08:08 (WTG 03)	06:31	06:39	05:54	05:29
10	07:27 16:50	07:09 17:22	28 08:34 (WTG 03)	17:55	19:30	20:02	20:31
11	07:27 16:51	07:09 17:22	28 08:06 (WTG 03)	06:29	06:38	05:53	05:28
12	07:27 16:52	07:07 17:24	29 08:34 (WTG 03)	17:56	19:31	20:03	20:31
13	07:26 16:53	07:07 17:24	29 08:06 (WTG 03)	06:28	06:36	05:52	05:28
14	07:26 16:54	07:06 17:25	31 08:35 (WTG 03)	17:58	19:32	20:04	20:32
15	07:26 16:55	07:06 17:25	31 08:05 (WTG 03)	06:26	06:34	05:51	05:28
16	07:26 16:56	07:05 17:26	31 08:36 (WTG 03)	17:59	19:33	20:05	20:33
17	07:25 16:57	07:05 17:26	31 08:05 (WTG 03)	06:25	06:33	05:50	05:27
18	07:25 16:58	07:04 17:27	32 08:36 (WTG 03)	18:00	19:34	20:06	20:33
19	07:24 16:59	07:04 17:27	32 08:05 (WTG 03)	06:23	06:31	05:48	05:27
20	07:24 17:00	07:03 17:29	32 08:37 (WTG 03)	18:01	19:35	20:07	20:34
21	07:23 17:01	07:03 17:29	32 08:04 (WTG 03)	06:21	06:29	05:47	05:27
22	07:23 17:02	07:01 17:30	33 08:36 (WTG 03)	18:02	19:36	20:08	20:34
23	07:22 17:03	07:01 17:30	33 08:04 (WTG 03)	06:20	06:28	05:46	05:27
24	07:22 17:04	07:00 17:31	32 08:37 (WTG 03)	18:03	19:37	20:09	20:35
25	07:21 17:05	07:00 17:32	32 08:05 (WTG 03)	06:18	06:26	05:45	05:27
26	07:21 17:06	06:59 17:33	32 08:37 (WTG 03)	18:04	19:38	20:10	20:35
27	07:21 17:07	06:59 17:33	32 08:04 (WTG 03)	06:16	06:25	05:44	05:27
28	07:21 17:08	06:58 17:34	31 08:36 (WTG 03)	18:06	19:39	20:11	20:36
29	07:21 17:09	06:58 17:34	31 08:05 (WTG 03)	06:15	06:23	05:43	05:27
30	07:21 17:10	06:56 17:35	31 08:36 (WTG 03)	18:07	19:40	20:12	20:36
31	07:21 17:11	06:56 17:35	31 08:05 (WTG 03)	06:13	06:21	05:42	05:27
1	07:25 17:12	06:55 17:36	30 08:36 (WTG 03)	18:08	19:42	20:13	20:37
2	07:24 17:13	06:55 17:36	30 08:05 (WTG 03)	06:11	06:20	05:41	05:27
3	07:24 17:14	06:53 17:37	30 08:35 (WTG 03)	18:09	19:43	20:14	20:37
4	07:24 17:15	06:53 17:37	28 08:06 (WTG 03)	06:10	06:18	05:40	05:27
5	07:24 17:16	06:52 17:37	28 08:34 (WTG 03)	18:10	19:44	20:15	20:37
6	07:24 17:17	06:52 17:39	26 08:07 (WTG 03)	06:08	06:17	05:39	05:27
7	07:23 17:18	06:52 17:39	26 08:33 (WTG 03)	18:11	19:45	20:16	20:38
8	07:23 17:19	06:51 17:40	24 08:08 (WTG 03)	06:06	06:15	05:38	05:27
9	07:23 17:20	06:49 17:40	24 08:32 (WTG 03)	18:12	19:46	20:17	20:38
10	07:23 17:21	06:49 17:41	20 08:10 (WTG 03)	06:04	06:14	05:38	05:27
11	07:23 17:22	06:49 17:41	20 08:30 (WTG 03)	18:13	19:47	20:18	20:38
12	07:22 17:23	06:48 17:42	16 08:12 (WTG 03)	06:03	06:12	05:37	05:27
13	07:22 17:24	06:48 17:42	16 08:28 (WTG 03)	18:14	19:48	20:19	20:38
14	07:21 17:25	06:46 17:43	10 08:15 (WTG 03)	06:01	06:11	05:36	05:28
15	07:21 17:26	06:45 17:43	10 08:25 (WTG 03)	18:16	19:49	20:20	20:38
16	07:21 17:27	06:45 17:45	05:59	06:09	05:35	05:28	05:28
17	07:20 17:28	06:43 17:46	18:17	19:50	20:21	20:39	20:39
18	07:20 17:29	06:43 17:46	05:58	06:08	05:34	05:28	05:28
19	07:20 17:30	06:43 17:46	18:18	19:51	20:22	20:39	20:39
20	07:19 17:31	06:42 17:47	05:56	06:06	05:34	05:29	05:29
21	07:19 17:32	06:42 17:47	18:19	19:52	20:23	20:39	20:39
22	07:18 17:33	06:40 17:47	05:54	06:05	05:33	05:29	05:29
23	07:18 17:34	06:40 17:48	18:20	19:53	20:24	20:39	20:39
24	07:18 17:35	06:39 17:48	05:53	06:04	05:32	05:29	05:29
25	07:17 17:36	06:39 17:49	18:21	19:55	20:24	20:39	20:39
26	07:17 17:37	06:39 17:49	06:51	06:02	05:32	05:30	05:30
27	07:17 17:38	06:39 17:49	19:22	19:56	20:25	20:39	20:39
28	07:16 17:39	06:39 17:49	06:49	06:01	05:31	05:30	05:30
29	07:16 17:40	06:39 17:49	19:23	19:57	20:26	20:39	20:39
30	07:15 17:41	06:39 17:49	06:48	06:01	05:31	05:30	05:30
31	07:15 17:42	06:39 17:49	19:24	19:58	20:27	20:39	20:39
Ore potenziali eliofania	296	297	369	399	449	454	
Totale, caso peggiore	8	601					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 24 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (317)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57	07:34 (WTG 03) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		06:33 16:56	07:35 (WTG 03) 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		06:34 16:55	07:35 (WTG 03) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40		06:35 16:54	07:35 (WTG 03) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38		06:36 16:52	07:36 (WTG 03) 16:32
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36		06:38 16:51	07:38 (WTG 03) 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35		06:39 16:50	07:38 (WTG 03) 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33		06:40 16:49	07:39 (WTG 03) 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31		06:41 16:48	07:42 (WTG 03) 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30		06:42 16:47	07:44 (WTG 03) 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28		06:44 16:46	07:47 (WTG 03) 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26		06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25		06:46 16:44	07:18 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23		06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22		06:49 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20		06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18		06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17		06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	12	08:44 (WTG 03) 06:53	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	18	08:56 (WTG 03) 08:41 (WTG 03) 06:54	16:39 07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	22	08:59 (WTG 03) 08:40 (WTG 03) 06:56	16:38 07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	25	09:02 (WTG 03) 08:38 (WTG 03) 06:57	16:37 07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	27	09:03 (WTG 03) 08:37 (WTG 03) 06:58	16:37 07:25 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	28	09:04 (WTG 03) 08:36 (WTG 03) 06:59	16:36 07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 18:07	30	09:04 (WTG 03) 07:35 (WTG 03) 07:00	16:36 07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 17:05	31	08:05 (WTG 03) 07:35 (WTG 03) 07:01	16:35 07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:25 17:04	32	08:06 (WTG 03) 07:34 (WTG 03) 07:03	16:35 07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 17:03	32	08:06 (WTG 03) 07:34 (WTG 03) 07:04	16:34 07:26 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	33	07:33 (WTG 03) 08:06 (WTG 03) 16:33	07:05 16:39 07:27
30	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	32	06:29 08:06 (WTG 03) 16:33	07:06 16:40 07:27
31	05:54 20:20	06:25 19:37		06:30 16:59	32	07:34 (WTG 03) 08:06 (WTG 03)	07:27 16:40
Ore potenziali eliofania	460	429	375	345		297	286
Totale, caso peggiore				354		262	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 25 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (344)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	05:29 20:29	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40		07:10 16:32
5	07:28 16:45	07:10 17:21	08:10 (WTG 03) 17:55	06:39 19:30	05:54 20:02	05:29 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38		07:11 16:32
6	07:28 16:46	07:09 17:22	08:02 (WTG 03) 17:56	06:29 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36		07:12 16:31
7	07:28 16:47	07:07 17:24	08:05 (WTG 03) 17:58	06:28 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35		07:13 16:31
8	07:27 16:48	07:06 17:25	08:04 (WTG 03) 17:59	06:26 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33		07:14 16:31
9	07:27 16:49	07:05 17:26	08:03 (WTG 03) 18:00	06:25 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31		07:15 16:31
10	07:27 16:50	07:04 17:27	08:02 (WTG 03) 18:01	06:23 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30		07:16 16:31
11	07:27 16:51	07:03 17:29	08:01 (WTG 03) 18:02	06:21 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28		07:17 16:31
12	07:27 16:52	07:01 17:30	08:00 (WTG 03) 18:03	06:20 19:37	05:46 20:09	05:27 20:35	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26		07:17 16:31
13	07:26 16:53	07:00 17:31	08:00 (WTG 03) 18:04	06:18 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25		07:18 16:32
14	07:26 16:54	06:59 17:32	07:59 (WTG 03) 18:06	06:16 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23		07:19 16:32
15	07:26 16:55	06:58 17:34	08:31 (WTG 03) 18:07	06:15 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22		07:20 16:32
16	07:25 16:56	06:56 17:35	08:00 (WTG 03) 18:08	06:13 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20		07:20 16:32
17	07:25 16:58	06:55 17:36	07:59 (WTG 03) 18:09	06:11 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18		07:21 16:32
18	07:24 16:59	06:53 17:37	08:31 (WTG 03) 18:10	06:10 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17		07:22 16:33
19	07:24 17:00	06:52 17:39	08:04 (WTG 03) 18:11	06:08 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15		07:22 16:33
20	07:23 17:01	06:51 17:40	08:30 (WTG 03) 18:12	06:06 19:46	05:38 20:17	05:27 20:38	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14		07:23 16:34
21	07:23 17:02	06:49 17:41	08:01 (WTG 03) 18:13	06:04 19:47	05:38 20:18	05:27 20:38	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12		07:24 16:34
22	07:22 17:04	06:48 17:42	08:01 (WTG 03) 18:14	06:03 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11		07:24 16:34
23	07:21 17:05	06:46 17:43	08:28 (WTG 03) 18:16	06:01 19:49	05:36 20:20	05:28 20:38	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10		07:25 16:35
24	07:21 17:06	06:45 17:45	08:03 (WTG 03) 18:17	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08		07:25 16:36
25	07:20 17:07	06:43 17:46	08:06 (WTG 03) 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	06:23 17:07		07:25 16:36
26	07:19 17:08	06:42 17:47	08:08 (WTG 03) 18:19	06:06 19:52	05:34 20:23	05:29 20:39	05:49 20:25	06:20 19:45	06:52 18:53	06:24 17:05		07:26 16:37
27	07:18 17:10	06:40 17:48	08:20 (WTG 03) 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:25	06:21 19:44	06:53 18:51	06:26 17:04		07:26 16:37
28	07:17 17:11	06:39 17:49	08:04 (WTG 03) 18:21	06:04 19:55	05:32 20:24	05:29 20:39	05:51 20:24	06:22 19:42	06:54 18:50	06:27 17:03		07:26 16:38
29	07:17 17:12	06:39 17:49	08:01 (WTG 03) 18:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	06:28 17:01		07:27 16:39
30	07:16 17:13	06:39 17:49	08:00 (WTG 03) 18:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	06:29 17:00		07:27 16:40
31	07:15 17:15	06:39 17:49	08:00 (WTG 03) 18:24	06:01 19:58	05:31 20:27	05:30 20:40	05:54 20:20	06:25 19:37	06:30 18:59	06:30 17:59		07:27 16:40
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		572								457	123	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 26 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (345)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	08:00 (WTG 03) 17:51	06:46 19:25	06:00 19:58
2	07:28 16:42	07:13 17:17	06:36 17:52	08:03 (WTG 03) 17:52	06:44 19:26	05:58 19:59
3	07:28 16:43	07:12 17:19	06:34 17:53	08:06 (WTG 03) 17:53	06:43 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	06:33 17:54	08:15 (WTG 03) 17:54	06:41 19:29	05:56 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	05:54 20:02
6	07:28 16:46	07:09 17:22	06:29 17:56		06:38 19:31	05:53 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	05:52 20:04
8	07:27 16:48	07:06 17:25	06:26 17:59		06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	08:10 (WTG 03) 06:25		06:33 19:34	05:50 20:06
10	07:27 16:50	07:04 17:27	08:06 (WTG 03) 06:23		06:31 19:35	05:48 20:07
11	07:27 16:51	07:03 17:29	08:21 (WTG 03) 06:21		06:29 19:36	05:47 20:08
12	07:27 16:52	07:01 17:30	08:02 (WTG 03) 06:20		06:28 19:37	05:46 20:09
13	07:26 16:53	07:00 17:31	08:24 (WTG 03) 06:18		06:26 19:38	05:45 20:10
14	07:26 16:54	06:59 17:32	08:01 (WTG 03) 06:16		06:25 19:39	05:44 20:11
15	07:26 16:55	06:58 17:34	08:26 (WTG 03) 06:15		06:23 19:40	05:43 20:12
16	07:25 16:56	06:56 17:35	07:59 (WTG 03) 06:13		06:21 19:42	05:42 20:13
17	07:25 16:58	06:55 17:36	08:28 (WTG 03) 06:11		06:20 19:43	05:41 20:14
18	07:24 16:59	06:53 17:37	07:57 (WTG 03) 06:10		06:18 19:44	05:40 20:15
19	07:24 17:00	06:52 17:39	08:29 (WTG 03) 06:08		06:17 19:45	05:39 20:16
20	07:23 17:01	06:51 17:40	07:56 (WTG 03) 06:06		06:15 19:46	05:38 20:17
21	07:23 17:02	06:49 17:41	08:29 (WTG 03) 06:04		06:14 19:47	05:38 20:18
22	07:22 17:04	06:48 17:42	08:30 (WTG 03) 06:03		06:12 19:48	05:37 20:19
23	07:21 17:05	06:46 17:43	07:56 (WTG 03) 06:01		06:11 19:49	05:36 20:20
24	07:21 17:06	06:45 17:45	08:29 (WTG 03) 05:59		06:09 19:50	05:35 20:21
25	07:20 17:07	06:43 17:46	07:57 (WTG 03) 05:58		06:08 19:51	05:34 20:22
26	07:19 17:08	06:42 17:47	08:28 (WTG 03) 05:56		06:06 19:52	05:33 20:23
27	07:18 17:10	06:40 17:48	07:57 (WTG 03) 05:54		06:05 19:53	05:33 20:24
28	07:17 17:11	06:39 17:49	08:25 (WTG 03) 05:53		06:04 19:55	05:32 20:24
29	07:17 17:12		07:59 (WTG 03) 05:53		06:04 19:55	05:32 20:24
30	07:16 17:13		08:23 (WTG 03) 06:51		06:02 19:56	05:32 20:25
31	07:15 17:15				06:01 19:57	05:31 20:26
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		540	46			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 26 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (345)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57		07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		06:33 16:56	13	07:42 (WTG 03) 07:08 07:44 (WTG 03) 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		06:34 16:55		07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40		06:35 16:54		07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38		06:36 16:52		07:11 16:32
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36		06:38 16:51		07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35		06:39 16:50		07:13 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33		06:40 16:49		07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31		06:41 16:48		07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30		06:42 16:47		07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	13	08:38 (WTG 03) 08:51 (WTG 03) 16:44 16:46		07:17 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	19	08:35 (WTG 03) 08:54 (WTG 03) 16:45		07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	22	08:33 (WTG 03) 08:55 (WTG 03) 16:44		07:18 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	25	08:31 (WTG 03) 08:56 (WTG 03) 16:43		07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	27	08:30 (WTG 03) 08:57 (WTG 03) 16:42		07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	29	08:30 (WTG 03) 08:59 (WTG 03) 16:41		07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	30	08:29 (WTG 03) 08:59 (WTG 03) 16:40		07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	31	08:28 (WTG 03) 08:59 (WTG 03) 16:40		07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	32	08:27 (WTG 03) 08:59 (WTG 03) 16:39		07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	32	08:27 (WTG 03) 08:59 (WTG 03) 16:38		07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	33	08:27 (WTG 03) 09:00 (WTG 03) 16:37		07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	33	08:27 (WTG 03) 09:00 (WTG 03) 16:37		07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	32	08:27 (WTG 03) 08:59 (WTG 03) 16:36		07:25 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	32	08:27 (WTG 03) 08:59 (WTG 03) 16:36		07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	31	07:27 (WTG 03) 07:58 (WTG 03) 16:35		07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 17:05	30	07:28 (WTG 03) 07:58 (WTG 03) 16:35		07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:25 17:04	28	07:29 (WTG 03) 07:29 (WTG 03) 16:34		07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 17:03	27	07:29 (WTG 03) 07:56 (WTG 03) 16:34		07:26 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	24	07:30 (WTG 03) 07:54 (WTG 03) 16:33		07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	22	07:32 (WTG 03) 07:54 (WTG 03) 16:33		07:27 16:40
31	05:54 20:20	06:25 19:37		06:30 16:59	18	07:34 (WTG 03) 07:52 (WTG 03)		07:27 16:40
Ore potenziali eliofania	460	429	375	345		297	15	286
Totale, caso peggiore				570				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 27 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (346)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	06:37 17:51	07:59 (WTG 03) 08:21 (WTG 03)	06:46 19:25	06:00 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	08:01 (WTG 03) 08:19 (WTG 03)	06:44 19:26	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	08:04 (WTG 03) 08:15 (WTG 03)	06:43 19:27	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54		06:41 19:29	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	05:54 20:02	05:29 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56		06:38 19:31	05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	05:52 20:04	05:28 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59		06:34 19:33	05:51 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00		06:33 19:34	05:50 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 08:07 (WTG 03)		06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 08:18 (WTG 03)		06:29 19:36	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 08:03 (WTG 03)		06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 08:02 (WTG 03)		06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 08:24 (WTG 03)		06:25 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 07:59 (WTG 03)		06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 08:26 (WTG 03)		06:21 19:42	05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 07:58 (WTG 03)		06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 08:27 (WTG 03)		06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 07:56 (WTG 03)		06:17 19:45	05:39 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 08:28 (WTG 03)		06:15 19:46	05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 07:55 (WTG 03)		06:14 19:47	05:38 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 08:28 (WTG 03)		06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 07:56 (WTG 03)		06:11 19:49	05:36 20:20	05:28 20:38
24	07:21 17:06	06:45 17:45	05:59 08:28 (WTG 03)		06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 07:56 (WTG 03)		06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 08:27 (WTG 03)		06:06 19:52	05:34 20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 07:58 (WTG 03)		06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 08:25 (WTG 03)		06:04 19:55	05:32 20:24	05:29 20:39
29	07:17 17:12		05:51 08:23 (WTG 03)		06:02 19:56	05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23		06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24			05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454	
Totale, caso peggiore		525	51				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



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Recettore d'ombra: 27 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (346)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57	07:36 (WTG 03) 10 07:46 (WTG 03)	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		06:33 16:56		07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		06:34 16:55		07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40		06:35 16:54		07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38		06:36 16:52		07:11 16:32
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36		06:38 16:51		07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35		06:39 16:50		07:13 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33		06:40 16:49		07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31		06:41 16:48		07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	6	08:41 (WTG 03) 08:47 (WTG 03)	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	15	08:36 (WTG 03) 08:51 (WTG 03)	06:44 16:46	07:17 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	19	08:34 (WTG 03) 08:53 (WTG 03)	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	23	08:32 (WTG 03) 08:55 (WTG 03)	06:46 16:44	07:18 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	26	08:30 (WTG 03) 08:56 (WTG 03)	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	27	08:29 (WTG 03) 08:56 (WTG 03)	06:49 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	29	08:29 (WTG 03) 08:58 (WTG 03)	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	30	08:28 (WTG 03) 08:58 (WTG 03)	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	31	08:27 (WTG 03) 08:58 (WTG 03)	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	32	08:26 (WTG 03) 08:58 (WTG 03)	06:53 16:39	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	32	08:26 (WTG 03) 08:58 (WTG 03)	06:54 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	33	08:26 (WTG 03) 08:59 (WTG 03)	06:56 16:37	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	33	08:26 (WTG 03) 08:59 (WTG 03)	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	32	08:26 (WTG 03) 08:58 (WTG 03)	06:58 16:36	07:25 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	32	08:26 (WTG 03) 08:58 (WTG 03)	06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	31	07:26 (WTG 03) 07:57 (WTG 03)	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 17:05	30	07:27 (WTG 03) 07:57 (WTG 03)	07:01 16:35	07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:26 17:04	28	07:28 (WTG 03) 07:56 (WTG 03)	07:03 16:34	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:03	25	07:29 (WTG 03) 07:54 (WTG 03)	07:04 16:34	07:26 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	23	07:30 (WTG 03) 07:53 (WTG 03)	07:05 16:33	07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	07:29 17:00	20	07:32 (WTG 03) 07:52 (WTG 03)	07:06 16:33	07:27 16:40
31	05:54 20:20	06:25 19:37		07:30 16:59	16	07:34 (WTG 03) 07:50 (WTG 03)		07:27 16:40
Ore potenziali eliofania	460	429	375	345		297	10	286
Totale, caso peggiore				573				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 28 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (347)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27	07:14	06:37	06:46	06:00	05:30	05:31	05:55	06:26	06:57	06:32	07:07
	16:41	17:16	17:51	19:25	19:58	20:28	20:39	20:19	19:36	18:45	16:57	16:32
2	07:28	07:13	06:36	07:59 (WTG 03)	06:44	05:58	05:30	05:31	05:56	06:27	06:58	06:33
	16:42	17:17	17:52	22 08:21 (WTG 03)	19:26	19:59	20:28	20:39	20:18	19:34	18:43	16:56
3	07:28	07:12	06:34	08:01 (WTG 03)	06:43	05:57	05:29	05:32	05:57	06:28	06:59	06:34
	16:43	17:19	17:53	17 08:18 (WTG 03)	19:27	20:00	20:29	20:38	20:17	19:32	18:41	16:55
4	07:28	07:11	06:33	08:04 (WTG 03)	06:41	05:56	05:29	05:32	05:58	06:29	07:00	06:35
	16:44	17:20	17:54	11 08:15 (WTG 03)	19:29	20:01	20:30	20:38	20:16	19:31	18:40	16:54
5	07:28	07:10	06:31	06:39	05:54	05:29	05:33	05:59	06:30	07:01	06:36	07:11
	16:45	17:21	17:55	19:30	20:02	20:31	20:38	20:15	19:29	18:38	16:52	16:32
6	07:28	07:09	06:29	06:38	05:53	05:28	05:33	06:00	06:31	07:02	06:38	07:12
	16:46	17:22	17:56	19:31	20:03	20:31	20:38	20:14	19:27	18:36	16:51	16:31
7	07:28	07:07	06:28	06:36	05:52	05:28	05:34	06:01	06:32	07:03	06:39	07:13
	16:47	17:24	17:58	19:32	20:04	20:32	20:37	20:12	19:26	18:35	16:50	16:31
8	07:27	07:06	06:26	06:34	05:51	05:28	05:35	06:02	06:33	07:04	06:40	07:14
	16:48	17:25	17:59	19:33	20:05	20:33	20:37	20:11	19:24	18:33	16:49	16:31
9	07:27	07:05	06:25	06:33	05:50	05:27	05:35	06:03	06:34	07:05	06:41	07:15
	16:49	17:26	18:00	19:34	20:06	20:33	20:37	20:10	19:22	18:31	3 08:43 (WTG 03)	16:48
10	07:27	07:04	06:23	06:31	05:48	05:27	05:36	06:04	06:35	07:06	08:37 (WTG 03)	06:42
	16:50	17:27	18:01	19:35	20:07	20:34	20:36	20:09	19:21	18:30	14 08:51 (WTG 03)	16:47
11	07:27	07:03	06:21	06:29	05:47	05:27	05:37	06:05	06:36	07:07	08:34 (WTG 03)	06:44
	16:51	17:29	12 08:18 (WTG 03)	19:36	20:08	20:34	20:36	20:07	19:19	18:28	19 08:53 (WTG 03)	16:46
12	07:27	07:01	06:20	06:28	05:46	05:27	05:37	06:06	06:37	07:09	08:32 (WTG 03)	06:45
	16:52	17:30	18 08:21 (WTG 03)	19:37	20:09	20:35	20:35	20:06	19:17	18:26	23 08:55 (WTG 03)	16:45
13	07:26	07:00	06:18	06:26	05:45	05:27	05:38	06:07	06:38	07:10	08:30 (WTG 03)	06:46
	16:53	17:31	21 08:23 (WTG 03)	19:38	20:10	20:35	20:35	20:05	19:16	18:25	26 08:56 (WTG 03)	16:44
14	07:26	06:59	06:16	06:25	05:44	05:27	05:39	06:08	06:39	07:11	08:29 (WTG 03)	06:47
	16:54	17:32	24 08:24 (WTG 03)	19:39	20:11	20:36	20:34	20:03	19:14	18:23	28 08:57 (WTG 03)	16:43
15	07:26	06:58	06:15	06:23	05:43	05:27	05:40	06:09	06:40	07:12	08:28 (WTG 03)	06:49
	16:55	17:34	27 08:26 (WTG 03)	19:40	20:12	20:36	20:34	20:02	19:12	18:22	29 08:57 (WTG 03)	16:42
16	07:25	06:56	06:13	06:21	05:42	05:27	05:40	06:10	06:41	07:13	08:28 (WTG 03)	06:50
	16:56	17:35	29 08:27 (WTG 03)	19:42	20:13	20:37	20:33	20:00	19:10	18:20	31 08:59 (WTG 03)	16:41
17	07:25	06:55	06:11	06:20	05:41	05:27	05:41	06:11	06:42	07:14	08:27 (WTG 03)	06:51
	16:58	17:36	30 08:27 (WTG 03)	19:43	20:14	20:37	20:33	19:59	19:09	18:18	32 08:59 (WTG 03)	16:40
18	07:24	06:53	06:10	06:18	05:40	05:27	05:42	06:12	06:43	07:15	08:26 (WTG 03)	06:52
	16:59	17:37	31 08:28 (WTG 03)	19:44	20:15	20:37	20:32	19:58	19:07	18:17	33 08:59 (WTG 03)	16:40
19	07:24	06:52	06:08	06:17	05:39	05:27	05:43	06:13	06:44	07:16	08:26 (WTG 03)	06:53
	17:00	17:39	33 08:28 (WTG 03)	19:45	20:16	20:38	20:31	19:56	19:05	18:15	33 08:59 (WTG 03)	16:39
20	07:23	06:51	06:06	06:15	05:38	05:27	05:44	06:14	06:45	07:18	08:26 (WTG 03)	06:54
	17:01	17:40	33 08:28 (WTG 03)	19:46	20:17	20:38	20:31	19:55	19:03	18:14	33 08:59 (WTG 03)	16:38
21	07:23	06:49	06:04	06:14	05:38	05:27	05:45	06:15	06:46	07:19	08:26 (WTG 03)	06:56
	17:02	17:41	33 08:29 (WTG 03)	19:47	20:18	20:38	20:30	19:53	19:02	18:12	33 08:59 (WTG 03)	16:37
22	07:22	06:48	06:03	06:12	05:37	05:27	05:45	06:16	06:47	07:20	08:26 (WTG 03)	06:57
	17:04	17:42	33 08:28 (WTG 03)	19:48	20:19	20:38	20:29	19:52	19:00	18:11	33 08:59 (WTG 03)	16:37
23	07:21	06:46	06:01	06:11	05:36	05:28	05:46	06:17	06:48	07:21	08:26 (WTG 03)	06:58
	17:05	17:43	33 08:28 (WTG 03)	19:49	20:20	20:38	20:28	19:50	18:58	18:10	32 08:58 (WTG 03)	16:36
24	07:21	06:45	05:59	06:09	05:35	05:28	05:47	06:18	06:49	07:22	08:26 (WTG 03)	06:59
	17:06	17:45	32 08:27 (WTG 03)	19:50	20:21	20:39	20:27	19:48	18:57	18:08	31 08:57 (WTG 03)	16:36
25	07:20	06:43	05:58	06:08	05:34	05:28	05:48	06:19	06:51	06:23	07:27 (WTG 03)	07:00
	17:07	17:46	31 08:27 (WTG 03)	19:51	20:22	20:39	20:26	19:47	18:55	17:07	29 07:56 (WTG 03)	16:35
26	07:19	06:42	05:56	06:06	05:34	05:29	05:49	06:20	06:52	06:24	07:28 (WTG 03)	07:01
	17:08	17:47	30 08:26 (WTG 03)	19:52	20:23	20:39	20:25	19:45	18:53	17:05	28 07:56 (WTG 03)	16:35
27	07:18	06:40	05:54	06:05	05:33	05:29	05:50	06:21	06:53	06:26	07:29 (WTG 03)	07:03
	17:10	17:48	29 08:26 (WTG 03)	19:53	20:24	20:39	20:25	19:44	18:51	17:04	26 07:55 (WTG 03)	16:34
28	07:17	06:39	05:53	06:04	05:32	05:29	05:51	06:22	06:54	06:27	07:30 (WTG 03)	07:04
	17:11	17:49	27 08:24 (WTG 03)	19:55	20:24	20:39	20:24	19:42	18:50	17:03	23 07:53 (WTG 03)	16:34
29	07:17		06:51	06:02	05:32	05:30	05:52	06:23	06:55	06:28	07:31 (WTG 03)	07:05
	17:12		19:22	19:56	20:25	20:39	20:23	19:41	18:48	17:01	21 07:52 (WTG 03)	16:33
30	07:16		06:49	06:01	05:31	05:30	05:53	06:24	06:56	06:29	07:33 (WTG 03)	07:06
	17:13		19:23	19:57	20:26	20:39	20:22	19:39	18:46	17:00	17 07:50 (WTG 03)	16:33
31	07:15		06:48		05:31		05:54	06:25		06:30	07:36 (WTG 03)	07:27
	17:15		19:24		20:27		20:20	19:37		16:59	11 07:47 (WTG 03)	16:40
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		506		74							588	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH
 Schweizer Straße 3a
 DE-01069 Dresden
 +49 (0) 351 / 211 83 - 46
 Luca Di Grigoli / luca.digrigoli@vsb.energy
 Redatto il:
 26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 29 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (348)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno		Luglio		Agosto		Settembre/Ottobre		Novembre/Dicembre		
1	07:27	07:14																		
	16:41	17:16																		
2	07:28	07:13																		
	16:42	17:17																		
3	07:28	07:12																		
	16:43	17:19																		
4	07:28	07:11																		
	16:44	17:20																		
5	07:28	07:10																		
	16:45	17:21																		
6	07:28	07:09																		
	16:46	17:22																		
7	07:28	07:07																		
	16:47	17:24																		
8	07:27	07:06																		
	16:48	17:25																		
9	07:27	07:05																		
	16:49	17:26																		
10	07:27	07:04																		
	16:50	17:27																		
11	07:27	07:03																		
	16:51	17:29																		
12	07:27	07:01																		
	16:52	17:30																		
13	07:26	07:00																		
	16:53	17:31																		
14	07:26	06:59																		
	16:54	17:32																		
15	07:26	06:58																		
	16:55	17:34	7	08:02 (WTG 03)	06:15															
16	07:25	06:56																		
	16:56	17:35	15	08:13 (WTG 03)	06:13															
17	07:25	06:55																		
	16:58	17:36	20	08:15 (WTG 03)	06:10															
18	07:24	06:53																		
	16:59	17:37	23	08:17 (WTG 03)	06:10															
19	07:24	06:52																		
	17:00	17:39	25	08:17 (WTG 03)	06:11															
20	07:23	06:51																		
	17:01	17:40	28	08:19 (WTG 03)	06:12															
21	07:23	06:49																		
	17:02	17:41	29	08:20 (WTG 03)	06:13															
22	07:22	06:48																		
	17:04	17:42	30	08:20 (WTG 03)	06:14															
23	07:21	06:46																		
	17:05	17:43	32	08:21 (WTG 03)	06:15															
24	07:21	06:45																		
	17:06	17:45	32	08:20 (WTG 03)	06:15															
25	07:20	06:43																		
	17:07	17:46	32	08:21 (WTG 03)	06:16															
26	07:19	06:42																		
	17:08	17:47	32	08:20 (WTG 03)	06:16															
27	07:18	06:40																		
	17:10	17:48	33	08:21 (WTG 03)	06:17															
28	07:17	06:39																		
	17:11	17:49	32	08:20 (WTG 03)	06:18															
29	07:17																			
	17:12																			
30	07:16																			
	17:13																			
31	07:15																			
	17:15																			
Ore potenziali eliofanía		296			369				399	449	454	460	429	375	345		297		286	
Totale, caso peggiore			370		180												552			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

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Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 30 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (349)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	05:29 20:29	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:30 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:35 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:39	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:32
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	06:54 16:38	07:23 16:34
21	07:23 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18	05:27 20:38	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:24 16:34
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 19:49	05:36 20:20	05:28 20:38	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	07:25 16:35
24	07:21 17:06	06:45 17:45	06:00 18:17	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	07:25 16:36
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	06:23 17:07	06:50 16:35	07:26 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:29 20:39	05:49 20:25	06:20 19:45	06:52 18:53	06:24 17:05	06:51 16:35	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:25	06:21 19:44	06:53 18:51	06:26 17:04	06:52 16:34	07:26 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	05:32 20:24	05:29 20:39	05:51 20:24	06:22 19:42	06:54 18:50	06:27 17:03	06:53 16:34	07:26 16:38
29	07:17 17:12	06:39 17:50	05:51 18:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	06:28 17:01	06:54 16:33	07:27 16:39
30	07:16 17:13	06:39 17:51	05:50 18:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	06:29 17:00	06:55 16:40	07:27 16:40
31	07:15 17:15	06:39 17:51	05:48 18:24	06:01 19:58	05:31 20:27	05:30 20:39	05:54 20:20	06:25 19:37	06:57 18:46	06:30 16:59	06:56 16:40	07:27 16:40
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		472	100								580	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:
Riccia

Utente autorizzato:
VSB Neue Energien Deutschland GmbH
Schweizer Straße 3a
DE-01069 Dresden
+49 (0) 351 / 211 83 - 46
Luca Di Grigoli / luca.digrigoli@vsb.energy
Redatto il:
26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 31 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (350)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	07:27	07:14	06:37	07:51 (WTG 03)	06:46	06:00	05:30	05:31	05:55	06:26	06:57	06:32	07:07	
	16:41	17:16	17:51	31 08:22 (WTG 03)	19:25	19:58	20:28	20:39	20:19	19:36	18:45	16:57	16:32	
2	07:28	07:13	06:36	07:52 (WTG 03)	06:44	05:58	05:30	05:31	05:56	06:27	06:58	06:33	07:08	
	16:42	17:17	17:52	30 08:22 (WTG 03)	19:26	19:59	20:28	20:39	20:18	19:34	18:43	16:56	16:32	
3	07:28	07:12	06:34	07:52 (WTG 03)	06:43	05:57	05:29	05:32	05:57	06:28	06:59	06:34	07:09	
	16:43	17:19	17:53	28 08:20 (WTG 03)	19:27	20:00	20:29	20:38	20:17	19:32	18:41	16:55	16:32	
4	07:28	07:11	06:33	07:53 (WTG 03)	06:41	05:56	05:29	05:32	05:58	06:29	07:00	06:35	07:10	
	16:44	17:20	17:54	26 08:19 (WTG 03)	19:29	20:01	20:30	20:38	20:16	19:31	18:40	16:54	16:32	
5	07:28	07:10	06:31	07:54 (WTG 03)	06:39	05:54	05:30	05:33	05:59	06:30	07:01	06:36	07:11	
	16:45	17:21	17:55	23 08:17 (WTG 03)	19:30	20:02	20:31	20:38	20:15	19:29	18:38	16:52	16:32	
6	07:28	07:09	06:29	07:55 (WTG 03)	06:38	05:53	05:28	05:33	06:00	06:31	07:02	06:38	07:12	
	16:46	17:22	17:56	20 08:15 (WTG 03)	19:31	20:03	20:31	20:38	20:14	19:27	18:36	16:51	16:31	
7	07:28	07:07	06:28	07:58 (WTG 03)	06:36	05:52	05:28	05:34	06:01	06:32	07:03	06:39	07:13	
	16:47	17:24	17:58	15 08:13 (WTG 03)	19:32	20:04	20:32	20:37	20:12	19:26	18:35	16:50	16:31	
8	07:27	07:06	06:26	08:01 (WTG 03)	06:34	05:51	05:28	05:35	06:02	06:33	07:04	06:40	07:14	
	16:48	17:25	17:59	7 08:08 (WTG 03)	19:33	20:05	20:33	20:37	20:11	19:24	18:33	16:49	16:31	
9	07:27	07:05	06:25		06:33	05:50	05:27	05:35	06:03	06:34	07:05	06:28	07:15	
	16:49	17:26	18:00		19:34	20:06	20:33	20:37	20:10	19:22	18:31	25 08:53 (WTG 03)	16:48	16:31
10	07:27	07:04	06:23		06:31	05:48	05:27	05:36	06:04	06:35	07:06	08:27 (WTG 03)	16:42	07:16
	16:50	17:27	18:01		19:35	20:07	20:34	20:36	20:09	19:21	18:30	27 08:54 (WTG 03)	16:47	16:31
11	07:27	07:03	06:21		06:29	05:47	05:27	05:37	06:05	06:36	07:07	08:26 (WTG 03)	16:44	07:17
	16:51	17:29	18:02		19:36	20:08	20:34	20:36	20:07	19:19	18:28	29 08:55 (WTG 03)	16:46	16:31
12	07:27	07:01	06:20		06:28	05:46	05:27	05:37	06:06	06:37	07:09	08:25 (WTG 03)	16:45	07:17
	16:52	17:30	18:03		19:37	20:09	20:35	20:35	20:06	19:17	18:26	30 08:55 (WTG 03)	16:45	16:31
13	07:26	07:00	06:18		06:26	05:45	05:27	05:38	06:07	06:38	07:10	08:24 (WTG 03)	16:46	07:18
	16:53	17:31	18:04		19:38	20:10	20:35	20:35	20:05	19:16	18:25	32 08:56 (WTG 03)	16:44	16:32
14	07:26	06:59	06:16		06:25	05:44	05:27	05:39	06:08	06:39	07:11	08:23 (WTG 03)	16:47	07:19
	16:54	17:32	18:06		19:39	20:11	20:36	20:34	20:03	19:14	18:23	33 08:56 (WTG 03)	16:43	16:32
15	07:26	06:58	06:15	13 08:02 (WTG 03)	06:23	05:43	05:27	05:40	06:09	06:40	07:12	08:23 (WTG 03)	16:49	07:20
	16:55	17:34	18:07		19:40	20:12	20:36	20:34	20:02	19:12	18:22	33 08:56 (WTG 03)	16:42	16:32
16	07:25	06:56	06:13	18 08:00 (WTG 03)	06:21	05:42	05:27	05:40	06:10	06:41	07:13	08:23 (WTG 03)	16:50	07:20
	16:56	17:35	18:08	18 08:18 (WTG 03)	19:42	20:13	20:37	20:33	20:00	19:10	18:20	33 08:56 (WTG 03)	16:41	16:32
17	07:25	06:55	06:11		06:20	05:41	05:27	05:41	06:11	06:42	07:14	08:23 (WTG 03)	16:51	07:21
	16:58	17:36	18:09		19:43	20:14	20:37	20:33	19:59	19:09	18:18	33 08:56 (WTG 03)	16:40	16:32
18	07:24	06:53	06:10		06:18	05:40	05:27	05:42	06:12	06:43	07:15	08:23 (WTG 03)	16:52	07:22
	16:59	17:37	18:10		19:44	20:15	20:37	20:32	19:58	19:07	18:17	32 08:55 (WTG 03)	16:40	16:33
19	07:24	06:52	06:08		06:17	05:39	05:27	05:43	06:13	06:44	07:16	08:23 (WTG 03)	16:53	07:22
	17:00	17:39	18:11		19:45	20:16	20:38	20:31	19:56	19:05	18:15	32 08:55 (WTG 03)	16:39	16:33
20	07:23	06:51	06:06		06:15	05:38	05:27	05:44	06:14	06:45	07:18	08:23 (WTG 03)	16:54	07:23
	17:01	17:40	18:12		19:46	20:17	20:38	20:31	19:55	19:03	18:14	31 08:54 (WTG 03)	16:38	16:34
21	07:23	06:49	06:04		06:14	05:38	05:27	05:45	06:15	06:46	07:19	08:24 (WTG 03)	16:56	07:24
	17:02	17:41	18:13		19:47	20:18	20:38	20:30	19:53	19:02	18:12	30 08:54 (WTG 03)	16:37	16:34
22	07:22	06:48	06:03		06:12	05:37	05:27	05:45	06:16	06:47	07:20	08:24 (WTG 03)	16:57	07:24
	17:04	17:42	18:14		19:48	20:19	20:38	20:29	19:52	19:00	18:11	29 08:53 (WTG 03)	16:37	16:34
23	07:21	06:46	06:01		06:11	05:36	05:28	05:46	06:17	06:48	07:21	08:25 (WTG 03)	16:58	07:25
	17:05	17:43	18:16		19:49	20:20	20:38	20:28	19:50	18:58	18:10	27 08:52 (WTG 03)	16:36	16:35
24	07:21	06:45	06:00		06:09	05:35	05:28	05:47	06:18	06:49	07:22	08:26 (WTG 03)	16:59	07:25
	17:06	17:45	18:17		19:50	20:21	20:39	20:27	19:48	18:57	18:08	24 08:50 (WTG 03)	16:36	16:36
25	07:20	06:43	06:00		06:08	05:34	05:28	05:48	06:19	06:51	06:23	07:27 (WTG 03)	16:40	16:32
	17:07	17:46	18:18		19:51	20:22	20:39	20:26	19:47	18:55	17:07	21 07:48 (WTG 03)	16:35	16:36
26	07:19	06:42	06:00		06:06	05:34	05:29	05:49	06:20	06:52	06:24	07:30 (WTG 03)	16:41	16:32
	17:08	17:47	18:19		19:52	20:23	20:39	20:25	19:45	18:53	17:05	17 07:47 (WTG 03)	16:35	16:37
27	07:18	06:40	06:00		06:05	05:33	05:29	05:50	06:21	06:53	06:26	07:33 (WTG 03)	16:43	16:37
	17:10	17:48	18:20		19:53	20:24	20:39	20:25	19:44	18:51	17:04	11 07:44 (WTG 03)	16:34	16:37
28	07:17	06:39	06:00		06:04	05:32	05:29	05:51	06:22	06:54	06:27		16:40	16:32
	17:11	17:49	18:21		19:55	20:24	20:39	20:24	19:42	18:50	17:03		16:34	16:38
29	07:17		06:51		06:02	05:32	05:30	05:52	06:23	06:55	06:28		16:33	16:39
	17:12		19:22		19:56	20:25	20:39	20:23	19:41	18:48	17:01		16:33	16:39
30	07:16		06:49		06:01	05:31	05:30	05:53	06:24	06:56	06:29		16:36	16:40
	17:13		19:23		19:57	20:26	20:39	20:22	19:39	18:46	17:00		16:33	16:40
31	07:15		06:48			05:31		05:54	06:25		06:30		16:37	16:40
	17:15		19:24			20:27		20:20	19:37		16:59		16:40	16:40
Ore potenziali eliofanía	296		369		399	449	454	460	429	375	345		297	286
Totale, caso peggiore		393	180									581		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 32 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (351)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	07:27	07:14	06:37	07:47 (WTG 03)	06:46	06:00	05:30	05:31	05:55	06:26	06:57	06:32	07:07	
	16:41	17:16	17:51	32 08:19 (WTG 03)	19:25	19:58	20:28	20:39	20:19	19:36	18:45	16:57	16:32	
2	07:28	07:13	06:36	07:48 (WTG 03)	06:44	05:58	05:30	05:31	05:56	06:27	06:58	06:33	07:08	
	16:42	17:17	17:52	31 08:19 (WTG 03)	19:26	19:59	20:28	20:39	20:18	19:34	18:43	16:56	16:32	
3	07:28	07:12	06:34	07:48 (WTG 03)	06:43	05:57	05:29	05:32	05:57	06:28	06:59	06:34	07:09	
	16:43	17:19	17:53	30 08:18 (WTG 03)	19:27	20:00	20:29	20:38	20:17	19:32	18:41	16:55	16:32	
4	07:28	07:11	06:33	07:49 (WTG 03)	06:41	05:56	05:29	05:32	05:58	06:29	07:00	06:35	07:10	
	16:44	17:20	17:54	28 08:17 (WTG 03)	19:29	20:01	20:30	20:38	20:16	19:31	18:40	16:54	16:32	
5	07:28	07:10	06:31	07:50 (WTG 03)	06:39	05:54	05:30	05:33	05:59	06:30	07:01	08:32 (WTG 03)	06:36	07:11
	16:45	17:21	17:55	26 08:16 (WTG 03)	19:30	20:02	20:31	20:38	20:15	19:29	18:38	12 08:44 (WTG 03)	16:52	16:32
6	07:28	07:09	06:29	07:50 (WTG 03)	06:38	05:53	05:28	05:33	06:00	06:31	07:02	18 08:29 (WTG 03)	06:38	07:12
	16:46	17:22	17:56	24 08:14 (WTG 03)	19:31	20:03	20:31	20:38	20:14	19:27	18:36	18 08:47 (WTG 03)	16:51	16:31
7	07:28	07:07	06:28	07:52 (WTG 03)	06:36	05:52	05:28	05:34	06:01	06:32	07:03	18 08:27 (WTG 03)	06:39	07:13
	16:47	17:24	17:58	20 08:12 (WTG 03)	19:32	20:04	20:32	20:37	20:12	19:26	18:35	21 08:48 (WTG 03)	16:50	16:31
8	07:27	07:06	06:26	07:54 (WTG 03)	06:34	05:51	05:28	05:35	06:02	06:33	07:04	21 08:48 (WTG 03)	06:40	07:14
	16:48	17:25	17:59	15 08:09 (WTG 03)	19:33	20:05	20:33	20:37	20:11	19:24	18:33	25 08:51 (WTG 03)	16:49	16:31
9	07:27	07:05	06:25	07:58 (WTG 03)	06:33	05:50	05:27	05:35	06:03	06:34	07:05	25 08:24 (WTG 03)	06:41	07:15
	16:49	17:26	18:00	6 08:04 (WTG 03)	19:34	20:06	20:33	20:37	20:10	19:22	18:31	27 08:51 (WTG 03)	16:48	16:31
10	07:27	07:04	06:23		06:31	05:48	05:27	05:36	06:04	06:35	07:06	29 08:23 (WTG 03)	06:42	07:16
	16:50	17:27	18:01		19:35	20:07	20:34	20:36	20:09	19:21	18:30	29 08:52 (WTG 03)	16:47	16:31
11	07:27	07:03	06:21		06:29	05:47	05:27	05:37	06:05	06:36	07:07	30 08:22 (WTG 03)	06:44	07:17
	16:51	17:29	18:02		19:36	20:08	20:34	20:36	20:07	19:19	18:28	30 08:52 (WTG 03)	16:46	16:31
12	07:27	07:01	06:20		06:28	05:46	05:27	05:37	06:06	06:37	07:09	31 08:21 (WTG 03)	06:45	07:17
	16:52	17:30	18:03		19:37	20:09	20:35	20:35	20:06	19:17	18:26	32 08:53 (WTG 03)	16:45	16:31
13	07:26	07:00	06:18		06:26	05:45	05:27	05:38	06:07	06:38	07:10	32 08:21 (WTG 03)	06:46	07:18
	16:53	17:31	18:04		19:38	20:10	20:35	20:35	20:05	19:16	18:25	32 08:53 (WTG 03)	16:44	16:32
14	07:26	06:59	06:16		06:25	05:44	05:27	05:39	06:08	06:39	07:11	33 08:20 (WTG 03)	06:47	07:19
	16:54	17:32	18:06		19:39	20:11	20:36	20:34	20:03	19:14	18:23	33 08:53 (WTG 03)	16:43	16:32
15	07:26	06:58	06:15		06:23	05:43	05:27	05:40	06:09	06:40	07:12	33 08:20 (WTG 03)	06:49	07:20
	16:55	17:34	18:07		19:40	20:12	20:36	20:34	20:02	19:12	18:22	32 08:52 (WTG 03)	16:42	16:32
16	07:25	06:56	06:13		06:21	05:42	05:27	05:40	06:10	06:41	07:13	33 08:20 (WTG 03)	06:50	07:20
	16:56	17:35	18:08	10 08:01 (WTG 03)	19:42	20:13	20:37	20:33	20:00	19:10	18:20	33 08:53 (WTG 03)	16:41	16:32
17	07:25	06:55	06:11		06:20	05:41	05:27	05:41	06:11	06:42	07:14	33 08:20 (WTG 03)	06:51	07:21
	16:58	17:36	18:09	16 08:13 (WTG 03)	19:43	20:14	20:37	20:33	19:59	19:09	18:19	33 08:53 (WTG 03)	16:40	16:32
18	07:24	06:53	06:10		06:18	05:40	05:27	05:42	06:12	06:43	07:15	33 08:20 (WTG 03)	06:52	07:22
	16:59	17:37	18:10	21 08:16 (WTG 03)	19:44	20:15	20:37	20:32	19:58	19:07	18:17	32 08:52 (WTG 03)	16:40	16:33
19	07:24	06:52	06:08		06:17	05:39	05:27	05:43	06:13	06:44	07:16	32 08:20 (WTG 03)	06:53	07:22
	17:00	17:39	18:11	24 08:17 (WTG 03)	19:45	20:16	20:38	20:31	19:56	19:05	18:15	31 08:51 (WTG 03)	16:39	16:33
20	07:23	06:51	06:06		06:15	05:38	05:27	05:44	06:14	06:45	07:18	31 08:21 (WTG 03)	06:54	07:23
	17:01	17:40	18:12	26 08:18 (WTG 03)	19:46	20:17	20:38	20:31	19:55	19:03	18:14	29 08:50 (WTG 03)	16:38	16:34
21	07:23	06:49	06:04		06:14	05:38	05:27	05:45	06:15	06:46	07:19	29 08:22 (WTG 03)	06:56	07:24
	17:02	17:41	18:13	29 08:20 (WTG 03)	19:47	20:18	20:38	20:30	19:53	19:02	18:12	28 08:50 (WTG 03)	16:37	16:34
22	07:22	06:48	06:03		06:12	05:37	05:27	05:45	06:16	06:47	07:20	28 08:23 (WTG 03)	06:57	07:24
	17:04	17:42	18:14	30 08:20 (WTG 03)	19:48	20:19	20:38	20:29	19:52	19:00	18:11	26 08:49 (WTG 03)	16:37	16:34
23	07:21	06:46	06:01		06:11	05:36	05:28	05:46	06:17	06:48	07:21	26 08:24 (WTG 03)	06:58	07:25
	17:05	17:43	18:16	31 08:21 (WTG 03)	19:49	20:20	20:38	20:28	19:50	18:58	18:10	23 08:47 (WTG 03)	16:36	16:35
24	07:21	06:45	06:00		06:09	05:35	05:28	05:47	06:18	06:49	07:22	23 08:25 (WTG 03)	06:59	07:25
	17:06	17:45	18:17	31 08:20 (WTG 03)	19:50	20:21	20:39	20:27	19:48	18:57	18:08	20 08:45 (WTG 03)	16:36	16:36
25	07:20	06:43	06:00		06:08	05:34	05:28	05:48	06:19	06:51	06:23	20 07:27 (WTG 03)	07:00	07:25
	17:07	17:46	18:18	32 08:21 (WTG 03)	19:51	20:22	20:39	20:26	19:47	18:55	17:07	15 07:42 (WTG 03)	16:35	16:36
26	07:19	06:42	06:00		06:06	05:34	05:29	05:49	06:20	06:52	06:24	7 07:32 (WTG 03)	07:01	07:26
	17:08	17:47	18:19	33 08:21 (WTG 03)	19:52	20:23	20:39	20:25	19:45	18:53	17:05	7 07:39 (WTG 03)	16:35	16:37
27	07:18	06:40	06:00		06:05	05:33	05:29	05:50	06:21	06:53	06:26		07:03	07:26
	17:10	17:48	18:20	33 08:21 (WTG 03)	19:53	20:24	20:39	20:25	19:44	18:51	17:04		16:34	16:37
28	07:17	06:39	06:00		06:04	05:32	05:29	05:51	06:22	06:54	06:27		07:04	07:26
	17:11	17:49	18:21	32 08:20 (WTG 03)	19:55	20:24	20:39	20:24	19:42	18:50	17:03		16:34	16:38
29	07:17		06:51		06:02	05:32	05:30	05:52	06:23	06:55	06:28		07:05	07:27
	17:12		19:22		19:56	20:25	20:39	20:23	19:41	18:48	17:01		16:33	16:39
30	07:16		06:49		06:01	05:31	05:30	05:53	06:24	06:56	06:29		07:06	07:27
	17:13		19:23		19:57	20:26	20:39	20:22	19:39	18:46	17:00		16:33	16:40
31	07:15		06:48			05:31		05:54	06:25		06:30		07:07	07:27
	17:15		19:24			20:27		20:20	19:37		16:59		16:40	16:40
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	568	297	286	
Totale, caso peggiore		348	212											

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 33 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (352)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51		06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	33 08:19 (WTG 03)	06:44 19:25	05:58 20:28	05:31 20:39	05:56 20:19	06:27 19:36	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	32 08:18 (WTG 03)	06:43 19:27	05:57 20:00	05:29 20:29	05:32 20:38	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	31 08:18 (WTG 03)	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	30 07:47 (WTG 03)	06:39 19:30	05:54 20:02	05:30 20:31	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	29 08:16 (WTG 03)	06:38 19:30	05:53 20:02	05:28 20:31	05:33 20:38	06:00 19:29	07:02 18:38	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	27 07:49 (WTG 03)	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:12	06:01 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	25 08:14 (WTG 03)	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:11	06:02 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	22 08:12 (WTG 03)	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:10	06:03 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	17 08:09 (WTG 03)	06:31 19:35	05:48 20:07	05:27 20:34	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	11 08:06 (WTG 03)	06:29 19:36	05:47 20:08	05:27 20:34	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03		06:28 19:37	05:46 20:09	05:27 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04		06:26 19:38	05:45 20:10	05:27 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:32
14	07:26 16:54	06:59 17:32	06:16 18:06		06:25 19:39	05:44 20:11	05:27 20:36	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07		06:23 19:40	05:43 20:12	05:27 20:36	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08		06:21 19:42	05:42 20:13	05:27 20:37	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09		06:20 19:43	05:41 20:14	05:27 20:37	06:11 19:59	06:42 19:09	07:14 18:19	06:51 16:40	07:21 16:32
18	07:24 16:59	06:53 17:37	06:10 18:10		06:18 19:44	05:40 20:15	05:27 20:37	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11		06:17 19:45	05:39 20:16	05:27 20:38	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12		06:15 19:46	05:38 20:17	05:27 20:38	06:14 19:55	06:45 19:03	07:18 18:14	06:54 16:38	07:23 16:34
21	07:23 17:02	06:49 17:41	06:04 18:13		06:14 19:47	05:38 20:18	05:27 20:38	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:24 16:34
22	07:22 17:04	06:48 17:42	06:03 18:14		06:12 19:48	05:37 20:19	05:27 20:38	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:16		06:11 19:49	05:36 20:20	05:28 20:38	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	07:25 16:35
24	07:21 17:06	06:45 17:45	06:00 18:17		06:09 19:50	05:35 20:21	05:28 20:39	06:18 20:27	06:49 19:48	07:22 18:57	06:59 16:36	07:25 16:36
25	07:20 17:07	06:43 17:46	05:58 18:18		06:08 19:51	05:34 20:22	05:28 20:39	06:19 20:26	06:51 19:47	06:23 18:55	06:30 17:07	07:25 16:35
26	07:19 17:08	06:42 17:47	05:56 18:19		06:06 19:52	05:34 20:23	05:29 20:39	06:20 19:45	06:52 18:53	06:24 17:05	06:31 17:05	07:26 16:35
27	07:18 17:10	06:40 17:48	05:54 18:20		06:05 19:53	05:33 20:24	05:29 20:39	06:21 19:44	06:53 18:51	06:26 17:04	06:32 16:34	07:26 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21		06:04 19:55	05:32 20:24	05:29 20:39	06:22 19:42	06:54 18:50	06:27 17:03	06:33 16:34	07:26 16:38
29	07:17 17:12		06:51 19:22		06:02 19:56	05:32 20:25	05:30 20:39	06:23 19:41	06:55 18:48	06:28 17:01	06:34 16:33	07:27 16:39
30	07:16 17:13		06:49 19:23		06:01 19:57	05:31 20:26	05:30 20:39	06:24 19:39	06:56 18:46	06:29 17:00	06:35 16:40	07:27 16:40
31	07:15 17:15		06:48 19:24			05:31 20:27		06:25 20:20	06:25 19:37	06:30 16:59	06:36 16:40	07:27 16:40
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		308	359	399	449	454	460	429	375	345	297	286

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 34 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (353)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	07:46 (WTG 03) 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	08:32 (WTG 03) 16:57	06:32 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	07:46 (WTG 03) 19:26	05:58 19:59	05:30 20:28	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	08:29 (WTG 03) 16:56	06:33 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	07:45 (WTG 03) 19:27	05:57 20:00	05:29 20:29	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	08:27 (WTG 03) 16:55	06:34 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	07:46 (WTG 03) 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	08:25 (WTG 03) 16:54	06:35 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	07:45 (WTG 03) 19:30	05:54 20:02	05:30 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	08:23 (WTG 03) 16:52	06:36 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	07:45 (WTG 03) 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	08:22 (WTG 03) 16:51	06:38 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	07:46 (WTG 03) 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35	08:21 (WTG 03) 16:50	06:39 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	07:46 (WTG 03) 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	08:21 (WTG 03) 16:49	06:40 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	07:47 (WTG 03) 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	08:21 (WTG 03) 16:48	06:41 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	07:48 (WTG 03) 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	08:20 (WTG 03) 16:47	06:42 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	07:50 (WTG 03) 19:36	05:47 20:08	05:27 20:34	05:37 20:37	06:05 20:07	06:36 19:19	07:07 18:28	08:20 (WTG 03) 16:46	06:44 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	07:51 (WTG 03) 19:37	05:46 20:09	05:27 20:35	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	08:19 (WTG 03) 16:45	06:45 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	08:07 (WTG 03) 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	08:19 (WTG 03) 16:44	06:46 16:32
14	07:26 16:54	06:59 17:32	06:16 18:06	08:03 (WTG 03) 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	08:19 (WTG 03) 16:43	06:47 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	08:19 (WTG 03) 16:42	06:49 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	08:21 (WTG 03) 16:41	06:50 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	08:21 (WTG 03) 16:40	06:51 16:32
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	08:22 (WTG 03) 16:40	06:52 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	08:23 (WTG 03) 16:39	06:53 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	08:24 (WTG 03) 16:38	06:54 16:34
21	07:23 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18	05:27 20:38	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	08:25 (WTG 03) 16:37	06:56 16:34
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	08:30 (WTG 03) 16:37	06:57 16:34
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 19:49	05:36 20:20	05:28 20:38	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	08:39 (WTG 03) 16:36	06:58 16:35
24	07:21 17:06	06:45 17:45	06:00 18:17	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	08:24 (WTG 03) 16:36	06:59 16:36
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	06:23 17:07	08:25 (WTG 03) 16:35	07:00 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:29 20:39	05:49 20:25	06:20 19:45	06:52 18:53	06:24 17:05	08:26 (WTG 03) 16:35	07:01 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:25	06:21 19:44	06:53 18:51	06:26 17:04	08:27 (WTG 03) 16:34	07:03 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	05:32 20:24	05:29 20:39	05:51 20:24	06:22 19:42	06:54 18:50	06:27 17:03	08:28 (WTG 03) 16:34	07:04 16:38
29	07:17 17:12	06:39 17:50	05:53 18:22	06:04 19:56	05:32 20:25	05:29 20:39	05:52 20:23	06:23 19:41	06:54 18:48	06:28 17:01	08:29 (WTG 03) 16:33	07:05 16:39
30	07:16 17:13	06:38 17:51	05:52 18:23	06:03 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	06:29 17:00	08:30 (WTG 03) 16:33	07:06 16:40
31	07:15 17:15	06:37 17:54	05:51 18:24	06:02 19:58	05:30 20:27	05:30 20:39	05:54 20:20	06:25 19:37	06:57 18:37	06:30 16:59	08:31 (WTG 03) 16:32	07:07 16:40
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		231	352								589	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 35 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (320)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno		
1	07:27	08:12 (WTG 04)	07:14	06:37	06:46	05:59					05:30	19:00 (WTG 02)	
	16:41	25 08:37 (WTG 04)	17:16	17:51	19:25	19:58					20:28	44 19:44 (WTG 02)	
2	07:28	08:12 (WTG 04)	07:13	06:36	06:44	05:58					05:30	18:59 (WTG 02)	
	16:42	26 08:38 (WTG 04)	17:17	17:52	19:26	19:59					20:28	45 19:44 (WTG 02)	
3	07:28	08:13 (WTG 04)	07:12	06:34	06:42	05:57					05:29	18:59 (WTG 02)	
	16:43	25 08:38 (WTG 04)	17:18	17:53	19:27	20:00					20:29	46 19:45 (WTG 02)	
4	07:28	08:13 (WTG 04)	07:11	06:33	06:41	05:56					05:29	18:59 (WTG 02)	
	16:44	26 08:39 (WTG 04)	17:20	17:54	19:29	20:01					20:30	47 19:46 (WTG 02)	
5	07:28	08:14 (WTG 04)	07:10	06:31	06:39	05:54					05:28	18:59 (WTG 02)	
	16:45	25 08:39 (WTG 04)	17:21	17:55	19:30	20:02					20:31	46 19:45 (WTG 02)	
6	07:28	08:14 (WTG 04)	07:08	06:29	06:37	05:53					05:28	18:59 (WTG 02)	
	16:46	26 08:40 (WTG 04)	17:22	17:56	19:31	20:03					20:31	47 19:46 (WTG 02)	
7	07:28	08:15 (WTG 04)	07:07	06:28	06:36	05:52					05:28	18:59 (WTG 02)	
	16:47	25 08:40 (WTG 04)	17:24	17:58	19:32	20:04					20:32	48 19:47 (WTG 02)	
8	07:27	08:15 (WTG 04)	07:06	06:26	06:34	05:51					05:28	18:59 (WTG 02)	
	16:48	26 08:41 (WTG 04)	17:25	17:59	19:33	20:05					20:32	48 19:47 (WTG 02)	
9	07:27	08:15 (WTG 04)	07:05	06:24	06:33	05:49					05:27	18:58 (WTG 02)	
	16:49	25 08:40 (WTG 04)	17:26	18:00	19:34	20:06					20:33	49 19:47 (WTG 02)	
10	07:27	08:16 (WTG 04)	07:04	06:23	06:31	05:48					05:27	18:59 (WTG 02)	
	16:50	25 08:41 (WTG 04)	17:27	18:01	19:35	20:07					20:34	48 19:47 (WTG 02)	
11	07:27	08:17 (WTG 04)	07:03	06:21	06:29	05:47					05:27	18:59 (WTG 02)	
	16:51	25 08:42 (WTG 04)	17:29	18:02	19:36	20:08					20:34	49 19:48 (WTG 02)	
12	07:27	08:17 (WTG 04)	07:01	06:20	06:28	05:46					05:27	18:59 (WTG 02)	
	16:52	24 08:41 (WTG 04)	17:30	18:03	19:37	20:09					20:35	49 19:48 (WTG 02)	
13	07:26	08:18 (WTG 04)	07:00	06:18	06:26	05:45					05:27	18:59 (WTG 02)	
	16:53	24 08:42 (WTG 04)	17:31	18:04	19:38	20:10					20:35	49 19:48 (WTG 02)	
14	07:26	08:19 (WTG 04)	06:59	06:16	06:25	05:44					05:27	18:59 (WTG 02)	
	16:54	23 08:42 (WTG 04)	17:32	18:06	19:39	20:11					20:36	50 19:49 (WTG 02)	
15	07:26	08:19 (WTG 04)	06:57	06:15	06:23	05:43					05:27	18:59 (WTG 02)	
	16:55	22 08:41 (WTG 04)	17:34	18:07	19:40	20:12					20:36	50 19:49 (WTG 02)	
16	07:25	08:20 (WTG 04)	06:56	06:13	06:21	05:42					05:27	19:00 (WTG 02)	
	16:56	22 08:42 (WTG 04)	17:35	18:08	19:41	20:13					20:36	49 19:49 (WTG 02)	
17	07:25	08:21 (WTG 04)	06:55	06:11	06:20	05:41					19:16 (WTG 02)	05:27	19:00 (WTG 02)
	16:58	20 08:41 (WTG 04)	17:36	18:09	19:43	20:14				9	19:25 (WTG 02)	20:37	49 19:49 (WTG 02)
18	07:24	08:21 (WTG 04)	06:53	06:10	06:18	05:40					19:12 (WTG 02)	05:27	19:00 (WTG 02)
	16:59	19 08:40 (WTG 04)	17:37	18:10	19:44	20:15				17	19:29 (WTG 02)	20:37	50 19:50 (WTG 02)
19	07:24	08:23 (WTG 04)	06:52	06:08	06:17	05:39					19:10 (WTG 02)	05:27	19:00 (WTG 02)
	17:00	17 08:40 (WTG 04)	17:39	18:11	19:45	20:16				21	19:31 (WTG 02)	20:38	50 19:50 (WTG 02)
20	07:23	08:24 (WTG 04)	06:51	06:06	06:15	05:38					19:08 (WTG 02)	05:27	19:01 (WTG 02)
	17:01	15 08:39 (WTG 04)	17:40	18:12	19:46	20:17				25	19:33 (WTG 02)	20:38	50 19:51 (WTG 02)
21	07:22	08:26 (WTG 04)	06:49	06:04	06:14	05:37					19:06 (WTG 02)	05:27	19:01 (WTG 02)
	17:02	11 08:37 (WTG 04)	17:41	18:13	19:47	20:18				28	19:34 (WTG 02)	20:38	50 19:51 (WTG 02)
22	07:22	08:29 (WTG 04)	06:48	06:03	06:12	05:37					19:06 (WTG 02)	05:27	19:01 (WTG 02)
	17:04	7 08:36 (WTG 04)	17:42	18:14	19:48	20:19				30	19:36 (WTG 02)	20:38	50 19:51 (WTG 02)
23	07:21		06:46	06:01	06:11	05:36					19:04 (WTG 02)	05:28	19:01 (WTG 02)
	17:05		17:43	18:15	19:49	20:20				33	19:37 (WTG 02)	20:38	50 19:51 (WTG 02)
24	07:20		06:45	05:59	06:09	05:35					19:03 (WTG 02)	05:28	19:02 (WTG 02)
	17:06		17:45	18:17	19:50	20:21				35	19:38 (WTG 02)	20:39	50 19:52 (WTG 02)
25	07:20		06:43	05:58	06:08	05:34					19:02 (WTG 02)	05:28	19:02 (WTG 02)
	17:07		17:46	18:18	19:51	20:22				36	19:38 (WTG 02)	20:39	50 19:52 (WTG 02)
26	07:19		06:42	05:56	06:06	05:34					19:02 (WTG 02)	05:28	19:02 (WTG 02)
	17:08		17:47	18:19	19:52	20:23				38	19:40 (WTG 02)	20:39	49 19:51 (WTG 02)
27	07:18		06:40	05:54	06:05	05:33					19:01 (WTG 02)	05:29	19:03 (WTG 02)
	17:10		17:48	18:20	19:53	20:24				39	19:40 (WTG 02)	20:39	49 19:52 (WTG 02)
28	07:17		06:39	05:53	06:04	05:32					19:01 (WTG 02)	05:29	19:02 (WTG 02)
	17:11		17:49	18:21	19:54	20:24				41	19:42 (WTG 02)	20:39	50 19:52 (WTG 02)
29	07:16			06:51	06:02	05:32					19:00 (WTG 02)	05:30	19:02 (WTG 02)
	17:12			19:22	19:56	20:25				42	19:42 (WTG 02)	20:39	50 19:52 (WTG 02)
30	07:16			06:49	06:01	05:31					19:00 (WTG 02)	05:30	19:03 (WTG 02)
	17:13			19:23	19:57	20:26				43	19:43 (WTG 02)	20:39	49 19:52 (WTG 02)
31	07:15			06:48		05:31					18:59 (WTG 02)		
	17:15			19:24		20:27				44	19:43 (WTG 02)		
Ore potenziali eliofanìa	296		297	369	399	449					454	1460	
Totale, caso peggiore	483		16			481							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 35 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (320)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	19:03 (WTG 02)	05:55	06:26	06:57	06:32	07:07	07:59 (WTG 04)				
	20:39	49 19:52 (WTG 02)	20:19	19:36	18:45	16:57	16:32	25 08:24 (WTG 04)				
2	05:31	19:04 (WTG 02)	05:56	06:27	06:58	06:33	07:08	07:59 (WTG 04)				
	20:39	48 19:52 (WTG 02)	20:18	19:34	18:43	16:56	16:32	25 08:24 (WTG 04)				
3	05:32	19:04 (WTG 02)	05:57	06:28	06:59	06:34	07:09	07:59 (WTG 04)				
	20:38	48 19:52 (WTG 02)	20:17	19:32	18:41	16:55	16:32	25 08:24 (WTG 04)				
4	05:32	19:04 (WTG 02)	05:58	06:29	07:00	06:35	07:10	07:59 (WTG 04)				
	20:38	48 19:52 (WTG 02)	20:16	19:31	18:39	16:54	16:32	26 08:25 (WTG 04)				
5	05:33	19:04 (WTG 02)	05:59	06:30	07:01	06:36	07:11	08:00 (WTG 04)				
	20:38	48 19:52 (WTG 02)	20:15	19:29	18:38	16:52	16:31	25 08:25 (WTG 04)				
6	05:33	19:05 (WTG 02)	06:00	06:31	07:02	06:38	07:12	08:00 (WTG 04)				
	20:38	47 19:52 (WTG 02)	20:14	19:27	18:36	16:51	16:31	26 08:26 (WTG 04)				
7	05:34	19:06 (WTG 02)	06:01	06:32	07:03	06:39	07:13	08:01 (WTG 04)				
	20:37	47 19:53 (WTG 02)	20:12	19:26	18:34	16:50	16:31	25 08:26 (WTG 04)				
8	05:34	19:05 (WTG 02)	06:02	06:33	07:04	06:40	07:14	08:01 (WTG 04)				
	20:37	47 19:52 (WTG 02)	20:11	19:24	18:33	16:49	16:31	26 08:27 (WTG 04)				
9	05:35	19:06 (WTG 02)	06:03	06:34	07:05	06:41	07:15	08:02 (WTG 04)				
	20:37	46 19:52 (WTG 02)	20:10	19:22	18:31	16:48	16:31	25 08:27 (WTG 04)				
10	05:36	19:07 (WTG 02)	06:04	06:35	07:06	06:42	07:16	08:02 (WTG 04)				
	20:36	45 19:52 (WTG 02)	20:09	19:21	18:30	16:47	16:31	26 08:28 (WTG 04)				
11	05:37	19:07 (WTG 02)	06:05	06:36	07:07	06:44	07:16	08:02 (WTG 04)				
	20:36	44 19:51 (WTG 02)	20:07	19:19	18:28	16:46	16:31	25 08:27 (WTG 04)				
12	05:37	19:08 (WTG 02)	06:06	06:37	07:09	06:45	07:17	08:03 (WTG 04)				
	20:35	44 19:52 (WTG 02)	20:06	19:17	18:26	16:45	16:31	25 08:28 (WTG 04)				
13	05:38	19:08 (WTG 02)	06:07	06:38	07:10	06:46	07:18	08:03 (WTG 04)				
	20:35	43 19:51 (WTG 02)	20:05	19:15	18:25	16:44	16:31	25 08:28 (WTG 04)				
14	05:39	19:09 (WTG 02)	06:08	06:39	07:11	06:47	07:19	08:04 (WTG 04)				
	20:34	42 19:51 (WTG 02)	20:03	19:14	18:23	16:43	16:32	25 08:29 (WTG 04)				
15	05:40	19:09 (WTG 02)	06:09	06:40	07:12	06:48	07:20	08:04 (WTG 04)				
	20:34	41 19:50 (WTG 02)	20:02	19:12	18:22	4 07:44 (7) 16:42	16:32	25 08:29 (WTG 04)				
16	05:40	19:10 (WTG 02)	06:10	06:41	07:13	07:39 (7) 06:50	07:20	08:05 (WTG 04)				
	20:33	40 19:50 (WTG 02)	20:00	19:10	18:20	6 07:45 (7) 16:41	16:32	24 08:29 (WTG 04)				
17	05:41	19:11 (WTG 02)	06:11	06:42	07:14	07:39 (7) 06:51	07:21	08:05 (WTG 04)				
	20:33	39 19:50 (WTG 02)	19:59	19:09	18:18	5 07:44 (7) 16:40	16:32	25 08:30 (WTG 04)				
18	05:42	19:12 (WTG 02)	06:12	06:43	07:15	07:41 (7) 06:52	07:22	08:05 (WTG 04)				
	20:32	37 19:49 (WTG 02)	19:57	19:07	18:17	1 07:42 (7) 16:40	16:33	25 08:30 (WTG 04)				
19	05:43	19:12 (WTG 02)	06:13	06:44	07:16	06:53	07:22	08:06 (WTG 04)				
	20:31	36 19:48 (WTG 02)	19:56	19:05	18:15	16:39	16:33	25 08:31 (WTG 04)				
20	05:44	19:13 (WTG 02)	06:14	06:45	07:17	06:54	07:23	08:07 (WTG 04)				
	20:30	34 19:47 (WTG 02)	19:55	19:03	18:14	16:38	6 08:11 (WTG 04) 16:34	25 08:32 (WTG 04)				
21	05:45	19:14 (WTG 02)	06:15	06:46	07:19	06:56	08:02 (WTG 04) 07:23	25 08:07 (WTG 04)				
	20:30	32 19:46 (WTG 02)	19:53	19:02	18:12	16:37	11 08:13 (WTG 04) 16:34	25 08:32 (WTG 04)				
22	05:45	19:16 (WTG 02)	06:16	06:47	07:20	06:57	08:00 (WTG 04) 07:24	25 08:08 (WTG 04)				
	20:29	29 19:45 (WTG 02)	19:52	19:00	18:11	16:37	15 08:15 (WTG 04) 16:34	25 08:33 (WTG 04)				
23	05:46	19:17 (WTG 02)	06:17	06:48	07:21	06:58	07:59 (WTG 04) 07:25	25 08:08 (WTG 04)				
	20:28	27 19:44 (WTG 02)	19:50	18:58	18:09	16:36	17 08:16 (WTG 04) 16:35	25 08:33 (WTG 04)				
24	05:47	19:19 (WTG 02)	06:18	06:49	07:22	06:59	08:00 (WTG 04) 07:25	25 08:08 (WTG 04)				
	20:27	24 19:43 (WTG 02)	19:48	18:57	18:08	16:36	18 08:18 (WTG 04) 16:36	25 08:33 (WTG 04)				
25	05:48	19:21 (WTG 02)	06:19	06:50	06:23	07:00	07:59 (WTG 04) 07:25	25 08:09 (WTG 04)				
	20:26	20 19:41 (WTG 02)	19:47	18:55	17:07	16:35	20 08:19 (WTG 04) 16:36	25 08:34 (WTG 04)				
26	05:49	19:24 (WTG 02)	06:20	06:51	06:24	07:01	07:58 (WTG 04) 07:26	25 08:09 (WTG 04)				
	20:25	14 19:38 (WTG 02)	19:45	18:53	17:05	16:34	22 08:20 (WTG 04) 16:37	25 08:34 (WTG 04)				
27	05:50		06:21	06:53	06:26	07:03	07:58 (WTG 04) 07:26	25 08:10 (WTG 04)				
	20:24		19:44	18:51	17:04	16:34	22 08:20 (WTG 04) 16:37	24 08:34 (WTG 04)				
28	05:51		06:22	06:54	06:27	07:04	07:58 (WTG 04) 07:26	25 08:11 (WTG 04)				
	20:24		19:42	18:50	17:02	16:34	23 08:21 (WTG 04) 16:38	25 08:36 (WTG 04)				
29	05:52		06:23	06:55	06:28	07:05	07:58 (WTG 04) 07:27	25 08:11 (WTG 04)				
	20:23		19:41	18:48	17:01	16:33	24 08:22 (WTG 04) 16:39	25 08:36 (WTG 04)				
30	05:53		06:24	06:56	06:29	07:06	07:59 (WTG 04) 07:27	25 08:11 (WTG 04)				
	20:21		19:39	18:46	17:00	16:33	24 08:23 (WTG 04) 16:40	25 08:36 (WTG 04)				
31	05:54		06:25		06:30		07:27	25 08:11 (WTG 04)				
	20:20		19:37		16:59		16:40	26 08:37 (WTG 04)				
Ore potenziali eliofanìa	460		429	375	345	297	286					
Totale, caso peggiore	1019				16	202	778					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 36 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (354)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:11 (WTG 04)	07:14		06:37	06:46	05:59				05:30	19:06 (WTG 02)
	16:41	26 08:37 (WTG 04)	17:16		17:51	19:25	19:58				20:28	39 19:45 (WTG 02)
2	07:28	08:12 (WTG 04)	07:13		06:36	06:44	05:58				05:30	19:05 (WTG 02)
	16:42	25 08:37 (WTG 04)	17:17		17:52	19:26	19:59				20:28	41 19:46 (WTG 02)
3	07:28	08:12 (WTG 04)	07:12		06:34	06:42	05:57				05:29	19:05 (WTG 02)
	16:43	26 08:38 (WTG 04)	17:18		17:53	19:27	20:00				20:29	41 19:46 (WTG 02)
4	07:28	08:12 (WTG 04)	07:11		06:33	06:41	05:56				05:29	19:05 (WTG 02)
	16:44	26 08:38 (WTG 04)	17:20		17:54	19:29	20:01				20:30	42 19:47 (WTG 02)
5	07:28	08:13 (WTG 04)	07:10		06:31	06:39	05:54				05:28	19:04 (WTG 02)
	16:45	26 08:39 (WTG 04)	17:21		17:55	19:30	20:02				20:31	43 19:47 (WTG 02)
6	07:28	08:13 (WTG 04)	07:08		06:29	06:37	05:53				05:28	19:04 (WTG 02)
	16:46	26 08:39 (WTG 04)	17:22		17:56	19:31	20:03				20:31	44 19:48 (WTG 02)
7	07:28	08:14 (WTG 04)	07:07		06:28	06:36	05:52				05:28	19:05 (WTG 02)
	16:47	26 08:40 (WTG 04)	17:24		17:58	19:32	20:04				20:32	44 19:49 (WTG 02)
8	07:27	08:14 (WTG 04)	07:06		06:26	06:34	05:51				05:28	19:05 (WTG 02)
	16:48	26 08:40 (WTG 04)	17:25		17:59	19:33	20:05				20:32	44 19:49 (WTG 02)
9	07:27	08:14 (WTG 04)	07:05		06:24	06:33	05:49				05:27	19:04 (WTG 02)
	16:49	26 08:40 (WTG 04)	17:26		18:00	19:34	20:06				20:33	45 19:49 (WTG 02)
10	07:27	08:15 (WTG 04)	07:04		06:23	06:31	05:48				05:27	19:04 (WTG 02)
	16:50	26 08:41 (WTG 04)	17:27		18:01	19:35	20:07				20:34	45 19:49 (WTG 02)
11	07:27	08:16 (WTG 04)	07:03		06:21	06:29	05:47				05:27	19:04 (WTG 02)
	16:51	25 08:41 (WTG 04)	17:29		18:02	19:36	20:08				20:34	46 19:50 (WTG 02)
12	07:27	08:16 (WTG 04)	07:01		06:20	06:28	05:46				05:27	19:04 (WTG 02)
	16:52	25 08:41 (WTG 04)	17:30		18:03	19:37	20:09				20:35	46 19:50 (WTG 02)
13	07:26	08:17 (WTG 04)	07:00		06:18	06:26	05:45				05:27	19:05 (WTG 02)
	16:53	24 08:41 (WTG 04)	17:31		18:04	19:38	20:10				20:35	46 19:51 (WTG 02)
14	07:26	08:18 (WTG 04)	06:59		06:16	06:25	05:44				05:27	19:05 (WTG 02)
	16:54	24 08:42 (WTG 04)	17:32		18:06	19:39	20:11				20:36	46 19:51 (WTG 02)
15	07:26	08:18 (WTG 04)	06:57		06:15	06:23	05:43				05:27	19:05 (WTG 02)
	16:55	24 08:42 (WTG 04)	17:34		18:07	19:40	20:12				20:36	46 19:51 (WTG 02)
16	07:25	08:19 (WTG 04)	06:56		06:13	06:21	05:42				05:27	19:05 (WTG 02)
	16:56	23 08:42 (WTG 04)	17:35		18:08	19:41	20:13				20:36	47 19:52 (WTG 02)
17	07:25	08:19 (WTG 04)	06:55		06:11	06:20	05:41				05:27	19:05 (WTG 02)
	16:58	22 08:41 (WTG 04)	17:36		18:09	19:43	20:14				20:37	47 19:52 (WTG 02)
18	07:24	08:20 (WTG 04)	06:53		06:10	06:18	05:40				05:27	19:05 (WTG 02)
	16:59	21 08:41 (WTG 04)	17:37		18:10	19:44	20:15				20:37	47 19:52 (WTG 02)
19	07:24	08:21 (WTG 04)	06:52		06:08	06:17	05:39				05:27	19:05 (WTG 02)
	17:00	20 08:41 (WTG 04)	17:39		18:11	19:45	20:16				20:38	47 19:52 (WTG 02)
20	07:23	08:22 (WTG 04)	06:51		06:06	06:15	05:38			19:20 (WTG 02)	05:27	19:06 (WTG 02)
	17:01	18 08:40 (WTG 04)	17:40		18:12	19:46	20:17		8	19:28 (WTG 02)	20:38	47 19:53 (WTG 02)
21	07:22	08:23 (WTG 04)	06:49		06:04	06:14	05:37			19:16 (WTG 02)	05:27	19:06 (WTG 02)
	17:02	16 08:39 (WTG 04)	17:41		18:13	19:47	20:18		16	19:32 (WTG 02)	20:38	47 19:53 (WTG 02)
22	07:22	08:26 (WTG 04)	06:48		06:03	06:12	05:37			19:15 (WTG 02)	05:27	19:06 (WTG 02)
	17:04	12 08:38 (WTG 04)	17:42		18:14	19:48	20:19		20	19:35 (WTG 02)	20:38	47 19:53 (WTG 02)
23	07:21	08:28 (WTG 04)	06:46		06:01	06:11	05:36			19:13 (WTG 02)	05:28	19:06 (WTG 02)
	17:05	8 08:36 (WTG 04)	17:43		18:15	19:49	20:20		23	19:36 (WTG 02)	20:38	47 19:53 (WTG 02)
24	07:20		06:45		05:59	06:09	05:35			19:11 (WTG 02)	05:28	19:07 (WTG 02)
	17:06		17:45		18:17	19:50	20:21		27	19:38 (WTG 02)	20:39	47 19:54 (WTG 02)
25	07:20		06:43		05:58	06:08	05:34			19:10 (WTG 02)	05:28	19:07 (WTG 02)
	17:07		17:46	5	07:12 (7)	18:18	19:51	20:22	29	19:39 (WTG 02)	20:39	47 19:54 (WTG 02)
26	07:19		06:42		07:06 (7)	05:56	06:06	05:34		19:09 (WTG 02)	05:28	19:07 (WTG 02)
	17:08		17:47	6	07:12 (7)	18:19	19:52	20:23	31	19:40 (WTG 02)	20:39	47 19:54 (WTG 02)
27	07:18		06:40		07:06 (7)	05:54	06:05	05:33		19:08 (WTG 02)	05:29	19:08 (WTG 02)
	17:10		17:48	5	07:11 (7)	18:20	19:53	20:24	33	19:41 (WTG 02)	20:39	46 19:54 (WTG 02)
28	07:17		06:39			05:53	06:04	05:32		19:08 (WTG 02)	05:29	19:08 (WTG 02)
	17:11		17:49			18:21	19:54	20:24	35	19:43 (WTG 02)	20:39	46 19:54 (WTG 02)
29	07:16					06:51	06:02	05:32		19:07 (WTG 02)	05:30	19:08 (WTG 02)
	17:12					19:22	19:56	20:25	36	19:43 (WTG 02)	20:39	46 19:54 (WTG 02)
30	07:16					06:49	06:01	05:31		19:07 (WTG 02)	05:30	19:08 (WTG 02)
	17:13					19:23	19:57	20:26	37	19:44 (WTG 02)	20:39	47 19:55 (WTG 02)
31	07:15					06:48		05:31		19:06 (WTG 02)		
	17:15					19:24		20:27	38	19:44 (WTG 02)		
Ore potenziali eliofanìa	296		297		369	399	449			454		1360
Totale, caso peggiore	521		16				333					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 36 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (354)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre		
1	05:31	19:08 (WTG 02)	05:55	06:26	06:57				06:32		07:07	07:58 (WTG 04)	
	20:39	46 19:54 (WTG 02)	20:19	19:36	18:45				16:57		16:32	25 08:23 (WTG 04)	
2	05:31	19:09 (WTG 02)	05:56	06:27	06:58				06:33		07:08	07:58 (WTG 04)	
	20:39	46 19:55 (WTG 02)	20:18	19:34	18:43				16:56		16:32	26 08:24 (WTG 04)	
3	05:32	19:09 (WTG 02)	05:57	06:28	06:59				06:34		07:09	07:58 (WTG 04)	
	20:38	45 19:54 (WTG 02)	20:17	19:32	18:41				16:55		16:32	26 08:24 (WTG 04)	
4	05:32	19:10 (WTG 02)	05:58	06:29	07:00				06:35		07:10	07:59 (WTG 04)	
	20:38	45 19:55 (WTG 02)	20:16	19:31	18:39				16:54		16:32	26 08:25 (WTG 04)	
5	05:33	19:10 (WTG 02)	05:59	06:30	07:01				06:36		07:11	07:59 (WTG 04)	
	20:38	44 19:54 (WTG 02)	20:15	19:29	18:38				16:52		16:31	26 08:25 (WTG 04)	
6	05:33	19:11 (WTG 02)	06:00	06:31	07:02				06:38		07:12	07:59 (WTG 04)	
	20:38	43 19:54 (WTG 02)	20:14	19:27	18:36				16:51		16:31	26 08:25 (WTG 04)	
7	05:34	19:11 (WTG 02)	06:01	06:32	07:03				06:39		07:13	08:00 (WTG 04)	
	20:37	44 19:55 (WTG 02)	20:12	19:26	18:34				16:50		16:31	26 08:26 (WTG 04)	
8	05:34	19:11 (WTG 02)	06:02	06:33	07:04				06:40		07:14	08:00 (WTG 04)	
	20:37	43 19:54 (WTG 02)	20:11	19:24	18:33				16:49		16:31	26 08:26 (WTG 04)	
9	05:35	19:12 (WTG 02)	06:03	06:34	07:05				06:41		07:15	08:01 (WTG 04)	
	20:37	42 19:54 (WTG 02)	20:10	19:22	18:31				16:48		16:31	26 08:27 (WTG 04)	
10	05:36	19:13 (WTG 02)	06:04	06:35	07:06				06:42		07:16	08:02 (WTG 04)	
	20:36	41 19:54 (WTG 02)	20:09	19:21	18:30				16:47		16:31	25 08:27 (WTG 04)	
11	05:37	19:13 (WTG 02)	06:05	06:36	07:07				06:44		07:16	08:01 (WTG 04)	
	20:36	40 19:53 (WTG 02)	20:07	19:19	18:28				16:46		16:31	26 08:27 (WTG 04)	
12	05:37	19:14 (WTG 02)	06:06	06:37	07:09				06:45		07:17	08:02 (WTG 04)	
	20:35	39 19:53 (WTG 02)	20:06	19:17	18:26				16:45		16:31	25 08:27 (WTG 04)	
13	05:38	19:15 (WTG 02)	06:07	06:38	07:10				06:46		07:18	08:03 (WTG 04)	
	20:35	38 19:53 (WTG 02)	20:05	19:15	18:25				16:44		16:31	25 08:28 (WTG 04)	
14	05:39	19:16 (WTG 02)	06:08	06:39	07:11			07:39 (7)	06:47		07:19	08:03 (WTG 04)	
	20:34	37 19:53 (WTG 02)	20:03	19:14	18:23	4	07:43 (7)	16:43			16:32	25 08:28 (WTG 04)	
15	05:40	19:16 (WTG 02)	06:09	06:40	07:12			07:38 (7)	06:48		07:20	08:03 (WTG 04)	
	20:34	35 19:51 (WTG 02)	20:02	19:12	18:22	5	07:43 (7)	16:42			16:32	25 08:28 (WTG 04)	
16	05:40	19:17 (WTG 02)	06:10	06:41	07:13			07:39 (7)	06:50		07:20	08:04 (WTG 04)	
	20:33	34 19:51 (WTG 02)	20:00	19:10	18:20	5	07:44 (7)	16:41			16:32	25 08:29 (WTG 04)	
17	05:41	19:18 (WTG 02)	06:11	06:42	07:14			07:39 (7)	06:51		07:21	08:05 (WTG 04)	
	20:33	32 19:50 (WTG 02)	19:59	19:09	18:18	4	07:43 (7)	16:40			16:32	24 08:29 (WTG 04)	
18	05:42	19:19 (WTG 02)	06:12	06:43	07:15				06:52		07:22	08:05 (WTG 04)	
	20:32	31 19:50 (WTG 02)	19:57	19:07	18:17				16:40		16:33	24 08:29 (WTG 04)	
19	05:43	19:20 (WTG 02)	06:13	06:44	07:16				06:53	08:02 (WTG 04)	07:22	08:06 (WTG 04)	
	20:31	28 19:48 (WTG 02)	19:56	19:05	18:15				16:39	8	08:10 (WTG 04)	16:33	24 08:30 (WTG 04)
20	05:44	19:21 (WTG 02)	06:14	06:45	07:17				06:54		08:01 (WTG 04)	07:23	08:07 (WTG 04)
	20:30	26 19:47 (WTG 02)	19:55	19:03	18:14				16:38	12	08:13 (WTG 04)	16:34	24 08:31 (WTG 04)
21	05:45	19:23 (WTG 02)	06:15	06:46	07:19				06:56		07:59 (WTG 04)	07:23	08:07 (WTG 04)
	20:30	22 19:45 (WTG 02)	19:53	19:02	18:12				16:37	16	08:15 (WTG 04)	16:34	24 08:31 (WTG 04)
22	05:45	19:25 (WTG 02)	06:16	06:47	07:20				06:57		07:58 (WTG 04)	07:24	08:08 (WTG 04)
	20:29	18 19:43 (WTG 02)	19:52	19:00	18:11				16:37	18	08:16 (WTG 04)	16:34	24 08:32 (WTG 04)
23	05:46	19:28 (WTG 02)	06:17	06:48	07:21				06:58		07:57 (WTG 04)	07:25	08:08 (WTG 04)
	20:28	13 19:41 (WTG 02)	19:50	18:58	18:09				16:36	20	08:17 (WTG 04)	16:35	24 08:32 (WTG 04)
24	05:47		06:18	06:49	07:22				06:59		07:58 (WTG 04)	07:25	08:08 (WTG 04)
	20:27		19:48	18:57	18:08				16:36	21	08:19 (WTG 04)	16:36	24 08:32 (WTG 04)
25	05:48		06:19	06:50	07:23				07:00		07:57 (WTG 04)	07:25	08:09 (WTG 04)
	20:26		19:47	18:55	17:07				16:35	22	08:19 (WTG 04)	16:36	24 08:33 (WTG 04)
26	05:49		06:20	06:51	07:24				07:01		07:57 (WTG 04)	07:26	08:09 (WTG 04)
	20:25		19:45	18:53	17:05				16:34	23	08:20 (WTG 04)	16:37	24 08:33 (WTG 04)
27	05:50		06:21	06:53	07:26				07:03		07:57 (WTG 04)	07:26	08:09 (WTG 04)
	20:24		19:44	18:51	17:04				16:34	24	08:21 (WTG 04)	16:37	25 08:34 (WTG 04)
28	05:51		06:22	06:54	07:27				07:04		07:57 (WTG 04)	07:26	08:10 (WTG 04)
	20:24		19:42	18:50	17:02				16:34	24	08:21 (WTG 04)	16:38	25 08:35 (WTG 04)
29	05:52		06:23	06:55	07:28				07:05		07:57 (WTG 04)	07:27	08:10 (WTG 04)
	20:23		19:41	18:48	17:01				16:33	25	08:22 (WTG 04)	16:39	25 08:35 (WTG 04)
30	05:53		06:24	06:56	07:29				07:06		07:58 (WTG 04)	07:27	08:11 (WTG 04)
	20:21		19:39	18:46	17:00				16:33	25	08:23 (WTG 04)	16:40	25 08:36 (WTG 04)
31	05:54		06:25		06:30						07:27		08:11 (WTG 04)
	20:20		19:37		16:59						16:40	25	08:36 (WTG 04)
Ore potenziali eliofanìa	460		429	375	345				297		286		
Totale, caso peggiore	832					18			238			774	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 37 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (355)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:13 (WTG 04)	07:14		06:37	07:19 (WTG 05)	06:46	05:59		05:30	19:05 (WTG 02)	
	16:41	08:39 (WTG 04)	17:16		17:51	07:36 (WTG 05)	19:25	19:58		20:28	40	19:45 (WTG 02)
2	07:28	08:14 (WTG 04)	07:13		06:36	07:20 (WTG 05)	06:44	05:58		05:30		19:04 (WTG 02)
	16:42	08:40 (WTG 04)	17:17		17:52	07:36 (WTG 05)	19:26	19:59		20:28	41	19:45 (WTG 02)
3	07:28	08:14 (WTG 04)	07:12		06:34	07:20 (WTG 05)	06:42	05:57		05:29		19:04 (WTG 02)
	16:43	08:40 (WTG 04)	17:18		17:53	07:34 (WTG 05)	19:27	20:00		20:29	42	19:46 (WTG 02)
4	07:28	08:15 (WTG 04)	07:11		06:33	07:22 (WTG 05)	06:41	05:56		05:29		19:04 (WTG 02)
	16:44	08:41 (WTG 04)	17:20		17:54	07:33 (WTG 05)	19:28	20:01		20:30	43	19:47 (WTG 02)
5	07:28	08:15 (WTG 04)	07:10		06:31	07:24 (WTG 05)	06:39	05:54		05:28		19:04 (WTG 02)
	16:45	08:41 (WTG 04)	17:21		17:55	07:30 (WTG 05)	19:30	20:02		20:31	43	19:47 (WTG 02)
6	07:28	08:16 (WTG 04)	07:08		06:29		06:37	05:53		05:28		19:04 (WTG 02)
	16:46	08:42 (WTG 04)	17:22		17:56		19:31	20:03		20:31	43	19:47 (WTG 02)
7	07:28	08:16 (WTG 04)	07:07		06:28		06:36	05:52		05:28		19:04 (WTG 02)
	16:47	08:43 (WTG 04)	17:24		17:58		19:32	20:04		20:32	44	19:48 (WTG 02)
8	07:27	08:17 (WTG 04)	07:06		06:26		06:34	05:51		05:28		19:04 (WTG 02)
	16:48	08:43 (WTG 04)	17:25		17:59		19:33	20:05		20:32	45	19:49 (WTG 02)
9	07:27	08:16 (WTG 04)	07:05		06:24		06:33	05:49		05:27		19:04 (WTG 02)
	16:49	08:43 (WTG 04)	17:26		18:00		19:34	20:06		20:33	45	19:48 (WTG 02)
10	07:27	08:17 (WTG 04)	07:04		06:23		06:31	05:48		05:27		19:03 (WTG 02)
	16:50	08:43 (WTG 04)	17:27		18:01		19:35	20:07		20:34	46	19:49 (WTG 02)
11	07:27	08:18 (WTG 04)	07:03		06:21		06:29	05:47		05:27		19:04 (WTG 02)
	16:51	08:44 (WTG 04)	17:29		18:02		19:36	20:08		20:34	45	19:49 (WTG 02)
12	07:27	08:18 (WTG 04)	07:01		06:20		06:28	05:46		05:27		19:04 (WTG 02)
	16:52	08:43 (WTG 04)	17:30		18:03		19:37	20:09		20:35	45	19:49 (WTG 02)
13	07:26	08:19 (WTG 04)	07:00		06:18		06:26	05:45		05:27		19:04 (WTG 02)
	16:53	08:44 (WTG 04)	17:31		18:04		19:38	20:10		20:35	46	19:50 (WTG 02)
14	07:26	08:20 (WTG 04)	06:59		06:16		06:25	05:44		05:27		19:04 (WTG 02)
	16:54	08:44 (WTG 04)	17:32		18:06		19:39	20:11		20:36	46	19:50 (WTG 02)
15	07:26	08:20 (WTG 04)	06:57		06:15		06:23	05:43		05:27		19:04 (WTG 02)
	16:55	08:44 (WTG 04)	17:34		18:07		19:40	20:12		20:36	46	19:50 (WTG 02)
16	07:25	08:21 (WTG 04)	06:56		06:13		06:21	05:42		05:27		19:04 (WTG 02)
	16:56	08:44 (WTG 04)	17:35		18:08		19:41	20:13		20:36	47	19:51 (WTG 02)
17	07:25	08:22 (WTG 04)	06:55		06:11		06:20	05:41		05:27		19:04 (WTG 02)
	16:58	08:44 (WTG 04)	17:36		18:09		19:43	20:14		20:37	47	19:51 (WTG 02)
18	07:24	08:22 (WTG 04)	06:53		06:10		06:18	05:40		05:27		19:05 (WTG 02)
	16:59	08:43 (WTG 04)	17:37		18:10		19:44	20:15		20:37	46	19:51 (WTG 02)
19	07:24	08:24 (WTG 04)	06:52		06:08		06:17	05:39		05:27		19:05 (WTG 02)
	17:00	08:43 (WTG 04)	17:39		18:11		19:45	20:16	9	19:19 (WTG 02)	05:27	19:51 (WTG 02)
20	07:23	08:25 (WTG 04)	06:51		06:06		06:15	05:38		05:27		19:06 (WTG 02)
	17:01	08:42 (WTG 04)	17:40		18:12		19:46	20:17	15	19:16 (WTG 02)	05:27	19:52 (WTG 02)
21	07:22	08:26 (WTG 04)	06:49		06:04		06:14	05:37		05:27		19:06 (WTG 02)
	17:02	08:41 (WTG 04)	17:41		18:13		19:47	20:18	20	19:13 (WTG 02)	05:27	19:52 (WTG 02)
22	07:22	08:29 (WTG 04)	06:48		06:03	07:24 (WTG 05)	06:12	05:37		05:27		19:06 (WTG 02)
	17:04	08:40 (WTG 04)	17:42	9	07:33 (WTG 05)	18:14	19:48	20:19	24	19:12 (WTG 02)	05:27	19:52 (WTG 02)
23	07:21	08:31 (WTG 04)	06:46		06:01	07:23 (WTG 05)	06:11	05:36		05:28		19:06 (WTG 02)
	17:05	08:38 (WTG 04)	17:43	13	07:36 (WTG 05)	18:15	19:49	20:20	26	19:11 (WTG 02)	05:28	19:52 (WTG 02)
24	07:20		06:45		05:59	07:21 (WTG 05)	06:09	05:35		05:28		19:07 (WTG 02)
	17:06		17:45	15	07:36 (WTG 05)	18:17	19:50	20:21	29	19:09 (WTG 02)	05:28	19:53 (WTG 02)
25	07:20		06:43		05:58	07:08 (7)	06:08	05:34		05:28		19:06 (WTG 02)
	17:07		17:46	21	07:37 (WTG 05)	18:18	19:51	20:22	31	19:08 (WTG 02)	05:28	19:53 (WTG 02)
26	07:19		06:42		05:56	07:07 (7)	06:06	05:34		05:28		19:06 (WTG 02)
	17:08		17:47	23	07:37 (WTG 05)	18:19	19:52	20:23	33	19:07 (WTG 02)	05:29	19:53 (WTG 02)
27	07:18		06:40		05:54	07:06 (7)	06:05	05:33		05:29		19:07 (WTG 02)
	17:10		17:48	23	07:37 (WTG 05)	18:20	19:53	20:24	34	19:07 (WTG 02)	05:29	19:54 (WTG 02)
28	07:17		06:39		05:53	07:08 (7)	06:04	05:32		05:29		19:07 (WTG 02)
	17:11		17:49	20	07:37 (WTG 05)	18:21	19:54	20:24	36	19:06 (WTG 02)	05:30	19:53 (WTG 02)
29	07:16				06:51		06:02	05:32		05:30		19:07 (WTG 02)
	17:12				19:22		19:56	20:25	37	19:43 (WTG 02)	05:30	19:53 (WTG 02)
30	07:16				06:49		06:01	05:31		05:30		19:08 (WTG 02)
	17:13				19:23		19:57	20:26	38	19:06 (WTG 02)	05:30	19:54 (WTG 02)
31	07:15				06:48			05:31		19:05 (WTG 02)		
	17:15				19:24			20:27	39	19:44 (WTG 02)		
Ore potenziali eliofanìa	296				369		399	449		454		1355
Totale, caso peggiore	521		124		64			371				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 37 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (355)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	19:08 (WTG 02)	05:55	06:26	06:57				06:32		07:07	08:00 (WTG 04)
	20:39	45 19:53 (WTG 02)	20:19	19:36	18:45				16:57		16:32	26 08:26 (WTG 04)
2	05:31	19:09 (WTG 02)	05:56	06:27	06:58				06:33		07:08	08:00 (WTG 04)
	20:39	45 19:54 (WTG 02)	20:18	19:34	18:43				16:56		16:32	26 08:26 (WTG 04)
3	05:32	19:08 (WTG 02)	05:57	06:28	06:59				06:34		07:09	08:01 (WTG 04)
	20:38	45 19:53 (WTG 02)	20:17	19:32	18:41				16:55		16:32	26 08:27 (WTG 04)
4	05:32	19:09 (WTG 02)	05:58	06:29	07:00				06:35		07:10	08:01 (WTG 04)
	20:38	45 19:54 (WTG 02)	20:16	19:31	18:39				16:54		16:32	26 08:27 (WTG 04)
5	05:33	19:09 (WTG 02)	05:59	06:30	07:01				06:36		07:11	08:01 (WTG 04)
	20:38	44 19:53 (WTG 02)	20:15	19:29	18:38				16:52		16:31	27 08:28 (WTG 04)
6	05:33	19:10 (WTG 02)	06:00	06:31	07:02				06:38		07:12	08:02 (WTG 04)
	20:38	44 19:54 (WTG 02)	20:14	19:27	18:36				16:51		16:31	26 08:28 (WTG 04)
7	05:34	19:11 (WTG 02)	06:01	06:32	07:03				06:39		07:13	08:02 (WTG 04)
	20:37	43 19:54 (WTG 02)	20:12	19:26	18:34				16:50		16:31	26 08:28 (WTG 04)
8	05:34	19:10 (WTG 02)	06:02	06:33	07:04				06:40		07:14	08:03 (WTG 04)
	20:37	43 19:53 (WTG 02)	20:11	19:24	18:33				16:49		16:31	26 08:29 (WTG 04)
9	05:35	19:11 (WTG 02)	06:03	06:34	07:05				06:41		07:15	08:03 (WTG 04)
	20:37	42 19:53 (WTG 02)	20:10	19:22	18:31	9	07:58 (WTG 05)	06:41	16:48		16:31	26 08:29 (WTG 04)
10	05:36	19:12 (WTG 02)	06:04	06:35	07:06				06:42		07:16	08:04 (WTG 04)
	20:36	41 19:53 (WTG 02)	20:09	19:21	18:30	12	08:08 (WTG 05)	16:47	16:31		16:31	26 08:03 (WTG 04)
11	05:37	19:12 (WTG 02)	06:05	06:36	07:07				06:44		07:16	08:03 (WTG 04)
	20:36	41 19:53 (WTG 02)	20:07	19:19	18:28	15	08:09 (WTG 05)	16:46	16:31		16:31	26 08:29 (WTG 04)
12	05:37	19:13 (WTG 02)	06:06	06:37	07:09				06:45		07:17	08:04 (WTG 04)
	20:35	40 19:53 (WTG 02)	20:06	19:17	18:26	17	08:10 (WTG 05)	16:45	16:31		16:31	26 08:30 (WTG 04)
13	05:38	19:14 (WTG 02)	06:07	06:38	07:10				06:46		07:18	08:05 (WTG 04)
	20:35	38 19:52 (WTG 02)	20:05	19:15	18:25	18	08:10 (WTG 05)	16:44	16:31		16:31	26 08:31 (WTG 04)
14	05:39	19:15 (WTG 02)	06:08	06:39	07:11				06:47		07:19	08:06 (WTG 04)
	20:34	37 19:52 (WTG 02)	20:03	19:14	18:23	23	08:10 (WTG 05)	16:43	16:32		16:32	25 08:31 (WTG 04)
15	05:40	19:14 (WTG 02)	06:09	06:40	07:12				06:48		07:20	08:05 (WTG 04)
	20:34	37 19:51 (WTG 02)	20:02	19:12	18:22	24	08:09 (WTG 05)	16:42	16:32		16:32	26 08:31 (WTG 04)
16	05:40	19:15 (WTG 02)	06:10	06:41	07:13				06:50		07:20	08:06 (WTG 04)
	20:33	36 19:51 (WTG 02)	20:00	19:10	18:20	23	08:10 (WTG 05)	16:41	16:32		16:32	26 08:32 (WTG 04)
17	05:41	19:17 (WTG 02)	06:11	06:42	07:14				06:51		07:21	08:07 (WTG 04)
	20:33	33 19:50 (WTG 02)	19:59	19:09	18:18	20	08:09 (WTG 05)	16:40	16:32		16:32	25 08:32 (WTG 04)
18	05:42	19:18 (WTG 02)	06:12	06:43	07:15				06:52		07:22	08:07 (WTG 04)
	20:32	32 19:50 (WTG 02)	19:57	19:07	18:17	14	08:07 (WTG 05)	16:40	16:33		16:33	25 08:32 (WTG 04)
19	05:43	19:18 (WTG 02)	06:13	06:44	07:16				06:53		07:22	08:08 (WTG 04)
	20:31	30 19:48 (WTG 02)	19:56	19:05	18:15	12	08:06 (WTG 05)	16:39	7	08:05 (WTG 04)	07:22	08:33 (WTG 04)
20	05:44	19:19 (WTG 02)	06:14	06:45	07:17				06:54		07:23	08:09 (WTG 04)
	20:30	28 19:47 (WTG 02)	19:55	19:03	18:14	7	08:03 (WTG 05)	16:38	11	08:15 (WTG 04)	16:34	25 08:34 (WTG 04)
21	05:45	19:21 (WTG 02)	06:15	06:46	07:19				06:56		07:23	08:09 (WTG 04)
	20:30	25 19:46 (WTG 02)	19:53	19:02	18:12	15	08:17 (WTG 04)	16:34	15	08:02 (WTG 04)	16:34	25 08:34 (WTG 04)
22	05:45	19:23 (WTG 02)	06:16	06:47	07:20				06:57		07:24	08:10 (WTG 04)
	20:29	22 19:45 (WTG 02)	19:52	19:00	18:11	17	08:18 (WTG 04)	16:34	17	08:01 (WTG 04)	07:24	25 08:10 (WTG 04)
23	05:46	19:25 (WTG 02)	06:17	06:48	07:21				06:58		07:24	08:10 (WTG 04)
	20:28	18 19:43 (WTG 02)	19:50	18:58	18:09	19	08:19 (WTG 04)	16:35	19	08:00 (WTG 04)	07:24	25 08:10 (WTG 04)
24	05:47	19:28 (WTG 02)	06:18	06:49	07:22				06:59		07:25	08:10 (WTG 04)
	20:27	13 19:41 (WTG 02)	19:48	18:57	18:08	21	08:21 (WTG 04)	16:35	21	08:00 (WTG 04)	07:25	25 08:10 (WTG 04)
25	05:48		06:19	06:50	06:23				07:00		07:25	08:11 (WTG 04)
	20:26		19:47	18:55	17:07	22	08:22 (WTG 04)	16:36	22	08:00 (WTG 04)	07:25	25 08:36 (WTG 04)
26	05:49		06:20	06:51	06:24				07:01		07:26	08:11 (WTG 04)
	20:25		19:45	18:53	17:05	23	08:22 (WTG 04)	16:37	23	08:02 (WTG 04)	07:26	25 08:36 (WTG 04)
27	05:50		06:21	06:53	06:26				07:03		07:26	08:11 (WTG 04)
	20:24		19:44	18:51	17:04	24	08:23 (WTG 04)	16:37	24	08:01 (WTG 04)	07:26	25 08:36 (WTG 04)
28	05:51		06:22	06:54	06:27				07:04		07:26	08:12 (WTG 04)
	20:24		19:42	18:50	17:02	25	08:24 (WTG 04)	16:38	25	08:02 (WTG 04)	07:26	26 08:38 (WTG 04)
29	05:52		06:23	06:55	06:28				07:05		07:27	08:12 (WTG 04)
	20:23		19:41	18:48	17:01	25	08:24 (WTG 04)	16:39	25	08:00 (WTG 04)	07:27	26 08:38 (WTG 04)
30	05:53		06:24	06:56	06:29				07:06		07:27	08:13 (WTG 04)
	20:21		19:39	18:46	17:00	25	08:25 (WTG 04)	16:40	25	08:00 (WTG 04)	07:27	25 08:38 (WTG 04)
31	05:54		06:25		06:30						07:27	08:13 (WTG 04)
	20:20		19:37		16:59						16:40	26 08:39 (WTG 04)
Ore potenziali eliofanìa	460		429		345				297		286	
Totale, caso peggiore	867				194				234			794

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 38 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (356)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		08:10 (WTG 04)	07:14		06:37	07:05 (7)	06:46	05:59		05:30	19:18 (WTG 02)
	16:41	24	08:34 (WTG 04)	17:16		17:51		19:25	19:58		20:28	19:45 (WTG 02)
2	07:28		08:10 (WTG 04)	07:13		06:36	07:16 (WTG 05)	06:44	05:58		05:30	19:17 (WTG 02)
	16:42	25	08:35 (WTG 04)	17:17		06:34	07:34 (WTG 05)	19:26	19:59		20:28	19:46 (WTG 02)
3	07:28		08:10 (WTG 04)	07:12		06:34	07:16 (WTG 05)	06:42	05:57		05:29	19:17 (WTG 02)
	16:43	25	08:35 (WTG 04)	17:18		17:53	07:33 (WTG 05)	19:27	20:00		20:29	19:47 (WTG 02)
4	07:28		08:11 (WTG 04)	07:11		06:33	07:18 (WTG 05)	06:41	05:56		05:29	19:16 (WTG 02)
	16:44	25	08:36 (WTG 04)	17:20		17:54	07:32 (WTG 05)	19:28	20:01		20:30	19:48 (WTG 02)
5	07:28		08:11 (WTG 04)	07:10		06:31	07:18 (WTG 05)	06:39	05:54		05:28	19:15 (WTG 02)
	16:45	25	08:36 (WTG 04)	17:21		17:55	07:30 (WTG 05)	19:30	20:02		20:31	19:48 (WTG 02)
6	07:28		08:11 (WTG 04)	07:08		06:29	07:20 (WTG 05)	06:37	05:53		05:28	19:15 (WTG 02)
	16:46	26	08:37 (WTG 04)	17:22		17:56	07:27 (WTG 05)	19:31	20:03		20:31	19:49 (WTG 02)
7	07:28		08:12 (WTG 04)	07:07		06:28		06:36	05:52		05:28	19:15 (WTG 02)
	16:47	26	08:38 (WTG 04)	17:24		17:58		19:32	20:04		20:32	19:50 (WTG 02)
8	07:27		08:12 (WTG 04)	07:06		06:26		06:34	05:51		05:28	19:15 (WTG 02)
	16:48	27	08:39 (WTG 04)	17:25		17:59		19:33	20:05		20:32	19:51 (WTG 02)
9	07:27		08:12 (WTG 04)	07:05		06:24		06:33	05:49		05:27	19:14 (WTG 02)
	16:49	26	08:38 (WTG 04)	17:26		18:00		19:34	20:06		20:33	19:51 (WTG 02)
10	07:27		08:13 (WTG 04)	07:04		06:23		06:31	05:48		05:27	19:14 (WTG 02)
	16:50	26	08:39 (WTG 04)	17:27		18:01		19:35	20:07		20:34	19:51 (WTG 02)
11	07:27		08:13 (WTG 04)	07:03		06:21		06:29	05:47		05:27	19:14 (WTG 02)
	16:51	27	08:40 (WTG 04)	17:29		18:02		19:36	20:08		20:34	19:52 (WTG 02)
12	07:27		08:13 (WTG 04)	07:01		06:20		06:28	05:46		05:27	19:14 (WTG 02)
	16:52	26	08:39 (WTG 04)	17:30		18:03		19:37	20:09		20:35	19:52 (WTG 02)
13	07:26		08:14 (WTG 04)	07:00		06:18		06:26	05:45		05:27	19:14 (WTG 02)
	16:53	26	08:40 (WTG 04)	17:31		18:04		19:38	20:10		20:35	19:53 (WTG 02)
14	07:26		08:15 (WTG 04)	06:59		06:16		06:25	05:44		05:27	19:14 (WTG 02)
	16:54	26	08:41 (WTG 04)	17:32		18:06		19:39	20:11		20:36	19:53 (WTG 02)
15	07:26		08:15 (WTG 04)	06:57		06:15		06:23	05:43		05:27	19:14 (WTG 02)
	16:55	25	08:40 (WTG 04)	17:34		18:07		19:40	20:12		20:36	19:54 (WTG 02)
16	07:25		08:16 (WTG 04)	06:56		06:13		06:21	05:42		05:27	19:14 (WTG 02)
	16:56	25	08:41 (WTG 04)	17:35		18:08		19:41	20:13		20:36	19:54 (WTG 02)
17	07:25		08:16 (WTG 04)	06:55		06:11		06:20	05:41		05:27	19:14 (WTG 02)
	16:58	25	08:41 (WTG 04)	17:36		18:09		19:43	20:14		20:37	19:54 (WTG 02)
18	07:24		08:16 (WTG 04)	06:53		06:10		06:18	05:40		05:27	19:14 (WTG 02)
	16:59	24	08:40 (WTG 04)	17:37		18:10		19:44	20:15		20:37	19:54 (WTG 02)
19	07:24		08:18 (WTG 04)	06:52		06:08		06:17	05:39		05:27	19:14 (WTG 02)
	17:00	23	08:41 (WTG 04)	17:39		18:11		19:45	20:16		20:38	19:55 (WTG 02)
20	07:23		08:18 (WTG 04)	06:51		06:06		06:15	05:38		05:27	19:15 (WTG 02)
	17:01	22	08:40 (WTG 04)	17:40		18:12		19:46	20:17		20:38	19:56 (WTG 02)
21	07:22		08:19 (WTG 04)	06:49		06:04		06:14	05:37		05:27	19:15 (WTG 02)
	17:02	20	08:39 (WTG 04)	17:41		18:13		19:47	20:18		20:38	19:56 (WTG 02)
22	07:22		08:21 (WTG 04)	06:48		06:03		06:12	05:37		05:27	19:15 (WTG 02)
	17:04	19	08:40 (WTG 04)	17:42		18:14		19:48	20:19		20:38	19:56 (WTG 02)
23	07:21		08:22 (WTG 04)	06:46		06:01		06:11	05:36		05:28	19:15 (WTG 02)
	17:05	17	08:39 (WTG 04)	17:43		18:15		19:49	20:20		20:38	19:56 (WTG 02)
24	07:20		08:23 (WTG 04)	06:45		05:59		06:09	05:35		05:28	19:16 (WTG 02)
	17:06	14	08:37 (WTG 04)	17:45		18:17		19:50	20:21		20:39	19:57 (WTG 02)
25	07:20		08:25 (WTG 04)	06:43		05:58		06:08	05:34		05:28	19:16 (WTG 02)
	17:07	10	08:35 (WTG 04)	17:46		18:18		19:51	20:22		20:39	19:56 (WTG 02)
26	07:19			06:42		05:56		06:06	05:34		05:28	19:16 (WTG 02)
	17:08			17:47		18:19		19:52	20:23		20:39	19:56 (WTG 02)
27	07:18			06:40		05:54		06:05	05:33		05:29	19:17 (WTG 02)
	17:10			17:48		18:20		19:53	20:24		20:39	19:57 (WTG 02)
28	07:17			06:39		05:53		06:04	05:32		05:29	19:17 (WTG 02)
	17:11			17:49		18:21		19:54	20:24		20:39	19:56 (WTG 02)
29	07:16					06:51		06:02	05:32		05:30	19:17 (WTG 02)
	17:12					19:22		19:56	20:25		20:39	19:56 (WTG 02)
30	07:16					06:49		06:01	05:31		05:30	19:18 (WTG 02)
	17:13					19:23		19:57	20:26		20:39	19:57 (WTG 02)
31	07:15					06:48			05:31			
	17:15					19:24			20:27		25	19:44 (WTG 02)
Ore potenziali eliofanìa	296		297		369		399		449		454	
Totale, caso peggiore	584		101		89				95		1127	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 38 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (356)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:18 (WTG 02) 19:56 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57
2	05:31 20:39	19:19 (WTG 02) 19:57 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:56
3	05:32 20:38	19:19 (WTG 02) 19:56 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:55
4	05:32 20:38	19:20 (WTG 02) 19:56 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54
5	05:33 20:38	19:20 (WTG 02) 19:55 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52
6	05:33 20:38	19:21 (WTG 02) 19:56 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51
7	05:34 20:37	19:22 (WTG 02) 19:56 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50
8	05:34 20:37	19:22 (WTG 02) 19:55 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49
9	05:35 20:37	19:23 (WTG 02) 19:54 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48
10	05:36 20:36	19:25 (WTG 02) 19:54 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47
11	05:37 20:36	19:25 (WTG 02) 19:53 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46
12	05:37 20:35	19:26 (WTG 02) 19:52 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45
13	05:38 20:35	19:28 (WTG 02) 19:52 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44
14	05:39 20:34	19:30 (WTG 02) 19:51 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43
15	05:40 20:34	19:31 (WTG 02) 19:48 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42
16	05:40 20:33	19:33 (WTG 02) 19:47 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41
17	05:41 20:33	19:37 (WTG 02) 19:43 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40
18	05:42 20:32	19:43 (WTG 02) 19:57 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40
19	05:43 20:31	19:43 (WTG 02) 19:56 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39
20	05:44 20:30	19:44 (WTG 02) 19:55 (WTG 02)	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38
21	05:45 20:30	19:45 (WTG 02) 19:56 (WTG 02)	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37
22	05:45 20:29	19:46 (WTG 02) 19:57 (WTG 02)	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37
23	05:46 20:28	19:47 (WTG 02) 19:58 (WTG 02)	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36
24	05:47 20:27	19:48 (WTG 02) 19:59 (WTG 02)	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36
25	05:48 20:26	19:49 (WTG 02) 19:59 (WTG 02)	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35
26	05:49 20:25	19:50 (WTG 02) 19:59 (WTG 02)	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34
27	05:50 20:24	19:51 (WTG 02) 19:59 (WTG 02)	06:21 19:44	06:52 18:51	07:25 17:04	07:02 16:34
28	05:51 20:24	19:52 (WTG 02) 19:59 (WTG 02)	06:22 19:42	06:53 18:50	07:26 17:02	07:03 16:34
29	05:52 20:23	19:53 (WTG 02) 19:59 (WTG 02)	06:23 19:41	06:54 18:48	07:27 17:01	07:04 16:33
30	05:53 20:21	19:54 (WTG 02) 19:59 (WTG 02)	06:24 19:39	06:55 18:46	07:28 17:00	07:05 16:33
31	05:54 20:20	19:55 (WTG 02) 19:59 (WTG 02)	06:25 19:37	06:56 18:45	07:29 16:59	07:06 16:40
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	482			185	305	736

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 39 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (357)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	08:09 (WTG 04) 07:14 08:33 (WTG 04) 17:16	06:37 17:51	07:04 (7) 06:46 19:25 19:58	05:59 19:58	05:30 19:22 (WTG 02)
2	07:28 16:42	08:10 (WTG 04) 07:13 08:33 (WTG 04) 17:17	06:36 17:52	07:16 (WTG 05) 06:44 19:26 19:59	05:58 19:59	05:30 19:21 (WTG 02)
3	07:28 16:43	08:10 (WTG 04) 07:12 08:34 (WTG 04) 17:18	06:34 17:53	07:15 (WTG 05) 06:42 19:27 20:00	05:57 20:00	05:29 19:20 (WTG 02)
4	07:28 16:44	08:10 (WTG 04) 07:11 08:35 (WTG 04) 17:20	06:33 17:54	07:17 (WTG 05) 06:41 19:28 20:01	05:56 20:01	05:29 19:20 (WTG 02)
5	07:28 16:45	08:10 (WTG 04) 07:10 08:35 (WTG 04) 17:21	06:31 17:55	07:17 (WTG 05) 06:39 19:30 20:02	05:54 20:02	05:28 19:18 (WTG 02)
6	07:28 16:46	08:11 (WTG 04) 07:08 08:36 (WTG 04) 17:22	06:29 17:56	07:30 (WTG 05) 06:37 19:31 20:03	05:53 20:03	05:28 19:18 (WTG 02)
7	07:28 16:47	08:11 (WTG 04) 07:07 08:37 (WTG 04) 17:24	06:28 17:58	07:32 (WTG 05) 06:36 19:32 20:04	05:52 20:04	05:28 19:18 (WTG 02)
8	07:27 16:48	08:12 (WTG 04) 07:06 08:38 (WTG 04) 17:25	06:26 17:59	07:34 (WTG 05) 06:34 19:33 20:05	05:51 20:05	05:28 19:18 (WTG 02)
9	07:27 16:49	08:11 (WTG 04) 07:05 08:37 (WTG 04) 17:26	06:24 18:00	07:32 (WTG 05) 06:33 19:34 20:06	05:49 20:06	05:27 19:17 (WTG 02)
10	07:27 16:50	08:12 (WTG 04) 07:04 08:38 (WTG 04) 17:27	06:23 18:01	07:34 (WTG 05) 06:31 19:35 20:07	05:48 20:07	05:27 19:17 (WTG 02)
11	07:27 16:51	08:13 (WTG 04) 07:03 08:39 (WTG 04) 17:29	06:21 18:02	07:32 (WTG 05) 06:29 19:36 20:08	05:47 20:08	05:27 19:17 (WTG 02)
12	07:27 16:52	08:12 (WTG 04) 07:01 08:39 (WTG 04) 17:30	06:20 18:03	07:34 (WTG 05) 06:28 19:37 20:09	05:46 20:09	05:27 19:17 (WTG 02)
13	07:26 16:53	08:13 (WTG 04) 07:00 08:39 (WTG 04) 17:31	06:18 18:04	07:34 (WTG 05) 06:26 19:38 20:10	05:45 20:10	05:27 19:17 (WTG 02)
14	07:26 16:54	08:14 (WTG 04) 06:59 08:40 (WTG 04) 17:32	06:16 18:06	07:34 (WTG 05) 06:25 19:39 20:11	05:44 20:11	05:27 19:17 (WTG 02)
15	07:26 16:55	08:14 (WTG 04) 06:57 08:40 (WTG 04) 17:34	06:15 18:07	07:34 (WTG 05) 06:23 19:40 20:12	05:43 20:12	05:27 19:17 (WTG 02)
16	07:25 16:56	08:15 (WTG 04) 06:56 08:40 (WTG 04) 17:35	06:13 18:08	07:34 (WTG 05) 06:21 19:41 20:13	05:42 20:13	05:27 19:17 (WTG 02)
17	07:25 16:58	08:15 (WTG 04) 06:55 08:40 (WTG 04) 17:36	06:11 18:09	07:34 (WTG 05) 06:20 19:43 20:14	05:41 20:14	05:27 19:17 (WTG 02)
18	07:24 16:59	08:15 (WTG 04) 06:53 08:40 (WTG 04) 17:37	06:10 18:10	07:34 (WTG 05) 06:18 19:44 20:15	05:40 20:15	05:27 19:17 (WTG 02)
19	07:24 17:00	08:17 (WTG 04) 06:52 08:40 (WTG 04) 17:39	06:08 18:11	07:34 (WTG 05) 06:17 19:45 20:16	05:39 20:16	05:27 19:17 (WTG 02)
20	07:23 17:01	08:17 (WTG 04) 06:51 08:40 (WTG 04) 17:40	06:06 18:12	07:34 (WTG 05) 06:15 19:46 20:17	05:38 20:17	05:27 19:18 (WTG 02)
21	07:22 17:02	08:17 (WTG 04) 06:49 08:39 (WTG 04) 17:41	06:04 18:13	07:34 (WTG 05) 06:14 19:47 20:18	05:37 20:18	05:27 19:18 (WTG 02)
22	07:22 17:04	08:19 (WTG 04) 06:48 08:39 (WTG 04) 17:42	06:03 18:14	07:34 (WTG 05) 06:12 19:48 20:19	05:37 20:19	05:27 19:18 (WTG 02)
23	07:21 17:05	08:20 (WTG 04) 06:46 08:38 (WTG 04) 17:43	06:01 18:15	07:34 (WTG 05) 06:11 19:49 20:20	05:36 20:20	05:28 19:18 (WTG 02)
24	07:20 17:06	08:21 (WTG 04) 06:45 08:37 (WTG 04) 17:45	05:59 18:17	07:34 (WTG 05) 06:09 19:50 20:21	05:35 20:21	05:28 19:19 (WTG 02)
25	07:20 17:07	08:23 (WTG 04) 06:43 08:36 (WTG 04) 17:46	05:58 18:18	07:34 (WTG 05) 06:08 19:51 20:22	05:34 20:22	05:28 19:19 (WTG 02)
26	07:19 17:08	08:26 (WTG 04) 06:42 08:34 (WTG 04) 17:47	05:56 18:19	07:34 (WTG 05) 06:06 19:52 20:23	05:34 20:23	05:28 19:19 (WTG 02)
27	07:18 17:10	06:40 17:48	05:54 18:20	07:34 (WTG 05) 06:05 19:53 20:24	05:33 20:24	05:29 19:20 (WTG 02)
28	07:17 17:11	06:39 17:49	05:53 18:21	07:34 (WTG 05) 06:04 19:54 20:24	05:32 20:24	05:29 19:20 (WTG 02)
29	07:16 17:12		05:51 19:22	19:54 20:24 19:56 20:25	19:27 (WTG 02) 19:37 (WTG 02)	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24		05:31 20:27	05:30 20:39
Ore potenziali eliofanìa	296	297	369	399	449	454
Totale, caso peggiore	599	88	94		45	1036

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 39 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (357)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:21 (WTG 02) 19:56 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57
2	05:31 20:39	19:22 (WTG 02) 19:57 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:56
3	05:32 20:38	19:22 (WTG 02) 19:56 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:55
4	05:32 20:38	19:23 (WTG 02) 19:56 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	07:10 16:54
5	05:33 20:38	19:23 (WTG 02) 19:55 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	07:11 16:52
6	05:33 20:38	19:24 (WTG 02) 19:55 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	07:12 16:51
7	05:34 20:37	19:26 (WTG 02) 19:55 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	07:13 16:50
8	05:34 20:37	19:26 (WTG 02) 19:54 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	07:14 16:49
9	05:35 20:37	19:27 (WTG 02) 19:54 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	07:15 16:48
10	05:36 20:36	19:28 (WTG 02) 19:53 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	07:16 16:47
11	05:37 20:36	19:29 (WTG 02) 19:52 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	07:17 16:46
12	05:37 20:35	19:31 (WTG 02) 19:51 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	07:17 16:45
13	05:38 20:35	19:33 (WTG 02) 19:50 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	07:18 16:44
14	05:39 20:34	19:35 (WTG 02) 19:48 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	07:19 16:43
15	05:40 20:34	19:38 (WTG 02) 19:44 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	07:20 16:42
16	05:40 20:33	19:40 (WTG 02) 19:40 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	07:20 16:41
17	05:41 20:33	19:41 (WTG 02) 19:41 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	07:20 16:40
18	05:42 20:32	19:42 (WTG 02) 19:42 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	07:21 16:39
19	05:43 20:31	19:43 (WTG 02) 19:43 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	07:22 16:38
20	05:44 20:30	19:44 (WTG 02) 19:44 (WTG 02)	06:14 19:55	06:45 19:03	07:17 18:14	07:23 16:37
21	05:45 20:30	19:45 (WTG 02) 19:45 (WTG 02)	06:15 19:53	06:46 19:02	07:19 18:12	07:24 16:36
22	05:45 20:29	19:46 (WTG 02) 19:46 (WTG 02)	06:16 19:52	06:47 19:00	07:20 18:11	07:25 16:35
23	05:46 20:28	19:47 (WTG 02) 19:47 (WTG 02)	06:17 19:50	06:48 18:58	07:21 18:09	07:26 16:34
24	05:47 20:27	19:48 (WTG 02) 19:48 (WTG 02)	06:18 19:48	06:49 18:57	07:22 18:08	07:27 16:33
25	05:48 20:26	19:49 (WTG 02) 19:49 (WTG 02)	06:19 19:47	06:50 18:55	07:23 18:07	07:28 16:32
26	05:49 20:25	19:50 (WTG 02) 19:50 (WTG 02)	06:20 19:45	06:51 18:53	07:24 18:05	07:29 16:31
27	05:50 20:24	19:51 (WTG 02) 19:51 (WTG 02)	06:21 19:44	06:52 18:51	07:25 18:04	07:30 16:30
28	05:51 20:24	19:52 (WTG 02) 19:52 (WTG 02)	06:22 19:42	06:53 18:50	07:26 18:03	07:31 16:29
29	05:52 20:23	19:53 (WTG 02) 19:53 (WTG 02)	06:23 19:41	06:54 18:48	07:27 18:02	07:32 16:28
30	05:53 20:21	19:54 (WTG 02) 19:54 (WTG 02)	06:24 19:39	06:55 18:46	07:28 18:01	07:33 16:27
31	05:54 20:20	19:55 (WTG 02) 19:55 (WTG 02)	06:25 19:37	06:56 18:44	07:29 18:00	07:34 16:26
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	388			186	323	721

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 40 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (358)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno			
1	07:27	08:08 (WTG 04)	07:14	06:37	07:02 (7)	06:46	05:59	05:30	
	16:41	23 08:31 (WTG 04)	17:16	17:51	24 07:32 (WTG 05)	19:25	19:58	20:28	
2	07:28	08:09 (WTG 04)	07:13	06:36	07:04 (7)	06:44	05:58	05:30	19:34 (WTG 02)
	16:42	22 08:31 (WTG 04)	17:17	17:52	21 07:33 (WTG 05)	19:26	19:59	20:28	4 19:38 (WTG 02)
3	07:28	08:09 (WTG 04)	07:12	06:34	07:14 (WTG 05)	06:42	05:57	05:29	19:31 (WTG 02)
	16:43	23 08:32 (WTG 04)	17:18	17:53	18 07:32 (WTG 05)	19:27	20:00	20:29	11 19:42 (WTG 02)
4	07:28	08:09 (WTG 04)	07:11	06:33	07:15 (WTG 05)	06:41	05:56	05:29	19:29 (WTG 02)
	16:44	24 08:33 (WTG 04)	17:20	17:54	17 07:32 (WTG 05)	19:28	20:01	20:30	15 19:44 (WTG 02)
5	07:28	08:09 (WTG 04)	07:10	06:31	07:15 (WTG 05)	06:39	05:54	05:28	19:27 (WTG 02)
	16:45	24 08:33 (WTG 04)	17:21	17:55	15 07:30 (WTG 05)	19:30	20:02	20:31	18 19:45 (WTG 02)
6	07:28	08:10 (WTG 04)	07:08	06:29	07:16 (WTG 05)	06:37	05:53	05:28	19:27 (WTG 02)
	16:46	24 08:34 (WTG 04)	17:22	17:56	12 07:28 (WTG 05)	19:31	20:03	20:31	20 19:47 (WTG 02)
7	07:28	08:10 (WTG 04)	07:07	06:28	07:19 (WTG 05)	06:36	05:52	05:28	19:26 (WTG 02)
	16:47	25 08:35 (WTG 04)	17:24	17:58	7 07:26 (WTG 05)	19:32	20:04	20:32	22 19:48 (WTG 02)
8	07:27	08:11 (WTG 04)	07:06	06:26		06:34	05:51	05:28	19:26 (WTG 02)
	16:48	25 08:36 (WTG 04)	17:25	17:59		19:33	20:05	20:32	24 19:50 (WTG 02)
9	07:27	08:10 (WTG 04)	07:05	06:24		06:33	05:49	05:27	19:24 (WTG 02)
	16:49	26 08:36 (WTG 04)	17:26	18:00		19:34	20:06	20:33	26 19:50 (WTG 02)
10	07:27	08:11 (WTG 04)	07:04	06:23		06:31	05:48	05:27	19:24 (WTG 02)
	16:50	25 08:36 (WTG 04)	17:27	18:01		19:35	20:07	20:34	27 19:24 (WTG 02)
11	07:27	08:11 (WTG 04)	07:03	06:21		06:29	05:47	05:27	19:24 (WTG 02)
	16:51	26 08:37 (WTG 04)	17:29	18:02		19:36	20:08	20:34	27 19:51 (WTG 02)
12	07:27	08:11 (WTG 04)	07:01	06:20		06:28	05:46	05:27	19:24 (WTG 02)
	16:52	26 08:37 (WTG 04)	17:30	18:03		19:37	20:09	20:35	28 19:52 (WTG 02)
13	07:26	08:11 (WTG 04)	07:00	06:18		06:26	05:45	05:27	19:24 (WTG 02)
	16:53	27 08:38 (WTG 04)	17:31	18:04		19:38	20:10	20:35	29 19:53 (WTG 02)
14	07:26	08:12 (WTG 04)	06:59	06:16		06:25	05:44	05:27	19:23 (WTG 02)
	16:54	27 08:39 (WTG 04)	17:32	18:06		19:39	20:11	20:36	30 19:53 (WTG 02)
15	07:26	08:12 (WTG 04)	06:57	06:15		06:23	05:43	05:27	19:23 (WTG 02)
	16:55	26 08:38 (WTG 04)	17:34	18:07		19:40	20:12	20:36	31 19:54 (WTG 02)
16	07:25	08:13 (WTG 04)	06:56	06:13		06:21	05:42	05:27	19:23 (WTG 02)
	16:56	26 08:39 (WTG 04)	17:35	18:08		19:41	20:13	20:36	31 19:54 (WTG 02)
17	07:25	08:13 (WTG 04)	06:55	06:11		06:20	05:41	05:27	19:23 (WTG 02)
	16:58	26 08:39 (WTG 04)	17:36	18:09		19:43	20:14	20:37	32 19:55 (WTG 02)
18	07:24	08:13 (WTG 04)	06:53	06:10		06:18	05:40	05:27	19:23 (WTG 02)
	16:59	26 08:39 (WTG 04)	17:37	18:10		19:44	20:15	20:37	32 19:55 (WTG 02)
19	07:24	08:14 (WTG 04)	06:52	06:08		06:17	05:39	05:27	19:23 (WTG 02)
	17:00	25 08:39 (WTG 04)	17:39	18:11		19:45	20:16	20:38	32 19:55 (WTG 02)
20	07:23	08:15 (WTG 04)	06:51	06:06		06:15	05:38	05:27	19:24 (WTG 02)
	17:01	24 08:39 (WTG 04)	17:40	18:12		19:46	20:17	20:38	32 19:56 (WTG 02)
21	07:22	08:15 (WTG 04)	06:49	06:04		06:14	05:37	05:27	19:24 (WTG 02)
	17:02	23 08:38 (WTG 04)	17:41	18:13		19:47	20:18	20:38	32 19:56 (WTG 02)
22	07:22	08:17 (WTG 04)	06:48	06:03		06:12	05:37	05:27	19:24 (WTG 02)
	17:04	22 08:39 (WTG 04)	17:42	18:14		19:48	20:19	20:38	32 19:56 (WTG 02)
23	07:21	08:17 (WTG 04)	06:46	06:01		06:11	05:36	05:28	19:24 (WTG 02)
	17:05	21 08:38 (WTG 04)	17:43	18:15		19:49	20:20	20:38	32 19:56 (WTG 02)
24	07:20	08:18 (WTG 04)	06:45	05:59		06:09	05:35	05:28	19:25 (WTG 02)
	17:06	19 08:37 (WTG 04)	17:45	6 07:27 (WTG 05)	18:17	19:50	20:21	20:39	32 19:57 (WTG 02)
25	07:20	08:19 (WTG 04)	06:43	05:58		06:08	05:34	05:28	19:25 (WTG 02)
	17:07	17 08:36 (WTG 04)	17:46	11 07:19 (WTG 05)	18:18	19:51	20:22	20:39	32 19:57 (WTG 02)
26	07:19	08:22 (WTG 04)	06:42	05:56		06:06	05:34	05:28	19:25 (WTG 02)
	17:08	14 08:36 (WTG 04)	17:47	14 07:31 (WTG 05)	18:19	19:52	20:23	20:39	31 19:56 (WTG 02)
27	07:18	08:24 (WTG 04)	06:40	05:54		06:05	05:33	05:29	19:26 (WTG 02)
	17:10	10 08:34 (WTG 04)	17:48	20 07:31 (WTG 05)	18:20	19:53	20:24	20:39	31 19:57 (WTG 02)
28	07:17		06:39	05:53		06:04	05:32	05:29	19:26 (WTG 02)
	17:11		17:49	22 07:32 (WTG 05)	18:21	19:54	20:24	20:39	31 19:57 (WTG 02)
29	07:16			06:51		06:02	05:32	05:30	19:27 (WTG 02)
	17:12			19:22		19:56	20:25	20:39	29 19:56 (WTG 02)
30	07:16			06:49		06:01	05:31	05:30	19:28 (WTG 02)
	17:13			19:23		19:57	20:26	20:39	28 19:56 (WTG 02)
31	07:15			06:48			05:31		
	17:15			19:24			20:27		
Ore potenziali eliofanìa	296	297	369	399	449	454			781
Totale, caso peggiore	626	73	114						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 40 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (358)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31 20:39	19:28 (WTG 02) 19:56 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57	
2	05:31 20:39	19:29 (WTG 02) 19:56 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:56	
3	05:32 20:38	19:29 (WTG 02) 19:55 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:55	
4	05:32 20:38	19:30 (WTG 02) 19:55 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	
5	05:33 20:38	19:31 (WTG 02) 19:54 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	
6	05:33 20:38	19:32 (WTG 02) 19:54 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	
7	05:34 20:37	19:34 (WTG 02) 19:53 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	
8	05:34 20:37	19:35 (WTG 02) 19:51 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	
9	05:35 20:37	19:37 (WTG 02) 19:50 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	
10	05:36 20:36	19:40 (WTG 02) 19:48 (WTG 02)	06:04 20:09	06:35 20:09	07:06 18:30	06:42 16:47	
11	05:37 20:36		06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	
12	05:37 20:35		06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	
13	05:38 20:35		06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	
14	05:39 20:34		06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	
15	05:40 20:34		06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	
16	05:40 20:33		06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	
17	05:41 20:33		06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	
18	05:42 20:32		06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	
19	05:43 20:31		06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	
20	05:44 20:30		06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	
21	05:45 20:30		06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	
22	05:45 20:29		06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	
23	05:46 20:28		06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	
24	05:47 20:27		06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	
25	05:48 20:26		06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35	
26	05:49 20:25		06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	
27	05:50 20:24		06:21 19:44	06:53 18:51	07:25 17:04	07:03 16:34	
28	05:51 20:24		06:22 19:42	06:54 18:50	07:26 17:02	07:04 16:34	
29	05:52 20:23		06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	
30	05:53 20:21		06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	
31	05:54 20:20		06:25 19:37		06:30 16:59		
Ore potenziali eliofanía	460	429	375	345	185	297	
Totale, caso peggiore	207				518	358	669

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 41 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (321)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:07 (WTG 04)	07:14		06:37	07:03 (7)	06:46	05:59	05:30			19:29 (WTG 02)
	16:41	22 08:29 (WTG 04)	17:16		17:51	4 07:07 (7)	19:25	19:58	20:28		11	19:40 (WTG 02)
2	07:28	08:07 (WTG 04)	07:13		06:36		06:44	05:58	05:30			19:27 (WTG 02)
	16:42	23 08:30 (WTG 04)	17:17		17:52		19:26	19:59	20:28		15	19:42 (WTG 02)
3	07:28	08:07 (WTG 04)	07:12		06:34		06:42	05:57	05:29			19:25 (WTG 02)
	16:43	24 08:31 (WTG 04)	17:18		17:53		19:27	20:00	20:29		19	19:44 (WTG 02)
4	07:28	08:08 (WTG 04)	07:11		06:33		06:41	05:56	05:29			19:25 (WTG 02)
	16:44	23 08:31 (WTG 04)	17:20		17:54		19:29	20:01	20:30		21	19:46 (WTG 02)
5	07:28	08:08 (WTG 04)	07:10		06:31		06:39	05:54	05:28			19:23 (WTG 02)
	16:45	24 08:32 (WTG 04)	17:21		17:55		19:30	20:02	20:31		24	19:47 (WTG 02)
6	07:28	08:08 (WTG 04)	07:08		06:29		06:38	05:53	05:28			19:23 (WTG 02)
	16:46	25 08:33 (WTG 04)	17:22		17:56		19:31	20:03	20:31		25	19:48 (WTG 02)
7	07:28	08:09 (WTG 04)	07:07		06:28		06:36	05:52	05:28			19:22 (WTG 02)
	16:47	25 08:34 (WTG 04)	17:24		17:58		19:32	20:04	20:32		27	19:49 (WTG 02)
8	07:27	08:09 (WTG 04)	07:06		06:26		06:34	05:51	05:28			19:22 (WTG 02)
	16:48	25 08:34 (WTG 04)	17:25		17:59		19:33	20:05	20:32		28	19:50 (WTG 02)
9	07:27	08:09 (WTG 04)	07:05		06:24		06:33	05:49	05:27			19:21 (WTG 02)
	16:49	25 08:34 (WTG 04)	17:26		18:00		19:34	20:06	20:33		29	19:51 (WTG 02)
10	07:27	08:09 (WTG 04)	07:04		06:23		06:31	05:48	05:27			19:21 (WTG 02)
	16:50	26 08:35 (WTG 04)	17:27		18:01		19:35	20:07	20:34		30	19:51 (WTG 02)
11	07:27	08:10 (WTG 04)	07:03		06:21		06:29	05:47	05:27			19:20 (WTG 02)
	16:51	26 08:36 (WTG 04)	17:29		18:02		19:36	20:08	20:34		32	19:52 (WTG 02)
12	07:27	08:10 (WTG 04)	07:01		06:20		06:28	05:46	05:27			19:20 (WTG 02)
	16:52	26 08:36 (WTG 04)	17:30		18:03		19:37	20:09	20:35		33	19:53 (WTG 02)
13	07:26	08:10 (WTG 04)	07:00		06:18		06:26	05:45	05:27			19:20 (WTG 02)
	16:53	26 08:36 (WTG 04)	17:31		18:04		19:38	20:10	20:35		33	19:53 (WTG 02)
14	07:26	08:11 (WTG 04)	06:59		06:16		06:25	05:44	05:27			19:20 (WTG 02)
	16:54	26 08:37 (WTG 04)	17:32		18:06		19:39	20:11	20:36		34	19:54 (WTG 02)
15	07:26	08:11 (WTG 04)	06:57		06:15		06:23	05:43	05:27			19:20 (WTG 02)
	16:55	26 08:37 (WTG 04)	17:34		18:07		19:40	20:12	20:36		34	19:54 (WTG 02)
16	07:25	08:12 (WTG 04)	06:56		06:13		06:21	05:42	05:27			19:20 (WTG 02)
	16:56	26 08:38 (WTG 04)	17:35		18:08		19:41	20:13	20:36		35	19:55 (WTG 02)
17	07:25	08:12 (WTG 04)	06:55		06:11		06:20	05:41	05:27			19:20 (WTG 02)
	16:58	25 08:37 (WTG 04)	17:36		18:09		19:43	20:14	20:37		35	19:55 (WTG 02)
18	07:24	08:12 (WTG 04)	06:53		06:10		06:18	05:40	05:27			19:20 (WTG 02)
	16:59	25 08:37 (WTG 04)	17:37		18:10		19:44	20:15	20:37		35	19:55 (WTG 02)
19	07:24	08:14 (WTG 04)	06:52		06:08		06:17	05:39	05:27			19:20 (WTG 02)
	17:00	23 08:37 (WTG 04)	17:39		18:11		19:45	20:16	20:38		35	19:55 (WTG 02)
20	07:23	08:14 (WTG 04)	06:51		06:06		06:15	05:38	05:27			19:21 (WTG 02)
	17:01	23 08:37 (WTG 04)	17:40		18:12		19:46	20:17	20:38		35	19:56 (WTG 02)
21	07:22	08:14 (WTG 04)	06:49		06:04		06:14	05:37	05:27			19:21 (WTG 02)
	17:02	22 08:36 (WTG 04)	17:41		18:13		19:47	20:18	20:38		35	19:56 (WTG 02)
22	07:22	08:16 (WTG 04)	06:48		06:03		06:12	05:37	05:27			19:21 (WTG 02)
	17:04	21 08:37 (WTG 04)	17:42		18:14		19:48	20:19	20:38		35	19:56 (WTG 02)
23	07:21	08:17 (WTG 04)	06:46		06:01		06:11	05:36	05:28			19:21 (WTG 02)
	17:05	19 08:36 (WTG 04)	17:43		18:15		19:49	20:20	20:38		35	19:56 (WTG 02)
24	07:20	08:18 (WTG 04)	06:45		05:59		06:09	05:35	05:28			19:22 (WTG 02)
	17:06	17 08:35 (WTG 04)	17:45		18:17		19:50	20:21	20:39		35	19:57 (WTG 02)
25	07:20	08:19 (WTG 04)	06:43		05:58		06:08	05:34	05:28			19:22 (WTG 02)
	17:07	15 08:34 (WTG 04)	17:46		18:18		19:51	20:22	20:39		35	19:57 (WTG 02)
26	07:19	08:22 (WTG 04)	06:42		07:05 (7)	05:56	06:06	05:34	05:28			19:22 (WTG 02)
	17:08	11 08:33 (WTG 04)	17:47		2 07:07 (7)	18:19	19:52	20:23	20:39		35	19:57 (WTG 02)
27	07:18		06:40		07:03 (7)	05:54	06:05	05:33	05:29			19:23 (WTG 02)
	17:10		17:48		5 07:08 (7)	18:20	19:53	20:24	20:39		34	19:57 (WTG 02)
28	07:17		06:39		07:03 (7)	05:53	06:04	05:32	05:29			19:23 (WTG 02)
	17:11		17:49		5 07:08 (7)	18:21	19:54	20:24	20:39		34	19:57 (WTG 02)
29	07:16					06:51	06:02	05:32	05:30			19:23 (WTG 02)
	17:12					19:22	19:56	20:25	20:39		33	19:56 (WTG 02)
30	07:16					06:49	06:01	05:31	05:30			19:24 (WTG 02)
	17:13					19:23	19:57	20:26	20:39		33	19:57 (WTG 02)
31	07:15					06:48		05:31				
	17:15					19:24		20:27				
Ore potenziali eliofania	296		297		369		399	449	454		914	
Totale, caso peggiore	599		12		4							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 41 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (321)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	19:24 (WTG 02)	05:55	06:26	06:57				06:32		07:07	07:52 (WTG 04)
	20:39	32 19:56 (WTG 02)	20:19	19:36	18:45				16:57		16:32	26 08:18 (WTG 04)
2	05:31	19:26 (WTG 02)	05:56	06:27	06:58				06:33		07:08	07:52 (WTG 04)
	20:39	31 19:57 (WTG 02)	20:18	19:34	18:43				16:56		16:32	26 08:18 (WTG 04)
3	05:32	19:26 (WTG 02)	05:57	06:28	06:59				06:34		07:09	07:53 (WTG 04)
	20:38	30 19:56 (WTG 02)	20:17	19:32	18:41				16:55		16:32	25 08:18 (WTG 04)
4	05:32	19:27 (WTG 02)	05:58	06:29	07:00				06:35		07:10	07:53 (WTG 04)
	20:38	29 19:56 (WTG 02)	20:16	19:31	18:39				16:54		16:32	25 08:18 (WTG 04)
5	05:33	19:27 (WTG 02)	05:59	06:30	07:01				06:36		07:11	07:54 (WTG 04)
	20:38	28 19:55 (WTG 02)	20:15	19:29	18:38				16:52		16:31	25 08:19 (WTG 04)
6	05:33	19:28 (WTG 02)	06:00	06:31	07:02				06:38		07:12	07:54 (WTG 04)
	20:38	27 19:55 (WTG 02)	20:14	19:27	18:36				16:51		16:31	25 08:19 (WTG 04)
7	05:34	19:30 (WTG 02)	06:01	06:32	07:03				06:39		07:13	07:55 (WTG 04)
	20:37	24 19:54 (WTG 02)	20:12	19:26	18:34				16:50		16:31	24 08:19 (WTG 04)
8	05:34	19:30 (WTG 02)	06:02	06:33	07:04				06:40		07:14	07:56 (WTG 04)
	20:37	23 19:53 (WTG 02)	20:11	19:24	18:33				16:49		16:31	23 08:19 (WTG 04)
9	05:35	19:32 (WTG 02)	06:03	06:34	07:05				06:41		07:15	07:56 (WTG 04)
	20:37	20 19:52 (WTG 02)	20:10	19:22	18:31				16:48		16:31	24 08:20 (WTG 04)
10	05:36	19:34 (WTG 02)	06:04	06:35	07:06				06:42		07:16	07:57 (WTG 04)
	20:36	17 19:51 (WTG 02)	20:09	19:21	18:30				16:47		16:31	23 08:20 (WTG 04)
11	05:37	19:35 (WTG 02)	06:05	06:36	07:07				06:44		07:16	07:57 (WTG 04)
	20:36	14 19:49 (WTG 02)	20:07	19:19	18:28				16:46		16:31	22 08:19 (WTG 04)
12	05:37	19:39 (WTG 02)	06:06	06:37	07:09				06:45		07:17	07:58 (WTG 04)
	20:35	7 19:46 (WTG 02)	20:06	19:17	18:26				16:45		16:31	22 08:20 (WTG 04)
13	05:38		06:07	06:38	07:10				06:46		07:18	07:59 (WTG 04)
	20:35		20:05	19:15	18:25	5	07:36 (7)	06:44			16:31	21 08:20 (WTG 04)
14	05:39		06:08	06:39	07:11		07:35 (7)	06:47			07:19	08:00 (WTG 04)
	20:34		20:03	19:14	18:23	6	07:41 (7)	16:43			16:32	21 08:21 (WTG 04)
15	05:40		06:09	06:40	07:12		07:36 (7)	06:48			07:20	08:00 (WTG 04)
	20:34		20:02	19:12	18:22	4	07:40 (7)	16:42	1	08:00 (WTG 04)	16:32	20 08:20 (WTG 04)
16	05:40		06:10	06:41	07:13			06:50			07:20	08:00 (WTG 04)
	20:33		20:00	19:10	18:20			16:41	11	08:06 (WTG 04)	16:32	21 08:21 (WTG 04)
17	05:41		06:11	06:42	07:14			06:51			07:21	08:01 (WTG 04)
	20:33		19:59	19:09	18:18			16:40	15	08:08 (WTG 04)	16:32	21 08:22 (WTG 04)
18	05:42		06:12	06:43	07:15			06:52			07:22	08:01 (WTG 04)
	20:32		19:57	19:07	18:17			16:40	17	08:09 (WTG 04)	16:33	20 08:21 (WTG 04)
19	05:43		06:13	06:44	07:16			06:53			07:22	08:02 (WTG 04)
	20:31		19:56	19:05	18:15			16:39	19	08:10 (WTG 04)	16:33	20 08:22 (WTG 04)
20	05:44		06:14	06:45	07:17			06:54			07:23	08:03 (WTG 04)
	20:30		19:55	19:03	18:14			16:38	21	08:12 (WTG 04)	16:34	20 08:23 (WTG 04)
21	05:45		06:15	06:46	07:19			06:56			07:23	08:03 (WTG 04)
	20:30		19:53	19:02	18:12			16:37	21	08:12 (WTG 04)	16:34	20 08:23 (WTG 04)
22	05:45		06:16	06:47	07:20			06:57			07:24	08:04 (WTG 04)
	20:29		19:52	19:00	18:11			16:37	23	08:13 (WTG 04)	16:34	20 08:24 (WTG 04)
23	05:46		06:17	06:48	07:21			06:58			07:25	08:04 (WTG 04)
	20:28		19:50	18:58	18:09			16:36	23	08:13 (WTG 04)	16:35	20 08:24 (WTG 04)
24	05:47		06:18	06:49	07:22			06:59			07:25	08:04 (WTG 04)
	20:27		19:48	18:57	18:08			16:36	25	08:15 (WTG 04)	16:36	20 08:24 (WTG 04)
25	05:48		06:19	06:50	07:23			07:00			07:25	08:05 (WTG 04)
	20:26		19:47	18:55	17:07			16:35	25	08:15 (WTG 04)	16:36	20 08:25 (WTG 04)
26	05:49		06:20	06:51	07:24			07:01			07:26	08:05 (WTG 04)
	20:25		19:45	18:53	17:05			16:34	26	08:16 (WTG 04)	16:37	21 08:26 (WTG 04)
27	05:50		06:21	06:53	07:26			07:03			07:26	08:05 (WTG 04)
	20:24		19:44	18:51	17:04			16:34	26	08:16 (WTG 04)	16:37	21 08:26 (WTG 04)
28	05:51		06:22	06:54	07:27			07:04			07:26	08:06 (WTG 04)
	20:24		19:42	18:50	17:02			16:34	26	08:16 (WTG 04)	16:38	21 08:27 (WTG 04)
29	05:52		06:23	06:55	07:28			07:05			07:27	08:07 (WTG 04)
	20:23		19:41	18:48	17:01			16:33	26	08:16 (WTG 04)	16:39	21 08:28 (WTG 04)
30	05:53		06:24	06:56	07:29			07:06			07:27	08:07 (WTG 04)
	20:21		19:39	18:46	17:00			16:33	26	08:18 (WTG 04)	16:40	21 08:28 (WTG 04)
31	05:54		06:25		06:30						07:27	08:07 (WTG 04)
	20:20		19:37		16:59						16:40	22 08:29 (WTG 04)
Ore potenziali eliofanìa	460		429	375	345				297		286	681
Totale, caso peggiore	282					15			331			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 42 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (333)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:06 (WTG 04)	07:14		06:37	07:01 (7)	06:46	05:59	05:30			
	16:41	19 08:25 (WTG 04)	17:16		17:51	5 07:06 (7)	19:25	19:58	20:28			
2	07:28	08:06 (WTG 04)	07:13		06:36	07:02 (7)	06:44	05:58	05:30			
	16:42	20 08:26 (WTG 04)	17:17		17:52	4 07:06 (7)	19:26	19:59	20:28			
3	07:28	08:06 (WTG 04)	07:12		06:34		06:42	05:57	05:29			
	16:43	21 08:27 (WTG 04)	17:18		17:53		19:27	20:00	20:29			
4	07:28	08:06 (WTG 04)	07:11		06:33		06:41	05:56	05:29			
	16:44	22 08:28 (WTG 04)	17:20		17:54		19:29	20:01	20:30			
5	07:28	08:07 (WTG 04)	07:10		06:31		06:39	05:54	05:28			
	16:45	22 08:29 (WTG 04)	17:21		17:55		19:30	20:02	20:31			
6	07:28	08:07 (WTG 04)	07:08		06:29		06:38	05:53	05:28			
	16:46	22 08:29 (WTG 04)	17:22		17:56		19:31	20:03	20:31			
7	07:28	08:07 (WTG 04)	07:07		06:28		06:36	05:52	05:28			
	16:47	23 08:30 (WTG 04)	17:24		17:58		19:32	20:04	20:32			
8	07:27	08:08 (WTG 04)	07:06		06:26		06:34	05:51	05:28			
	16:48	23 08:31 (WTG 04)	17:25		17:59		19:33	20:05	20:32			
9	07:27	08:07 (WTG 04)	07:05		06:24		06:33	05:49	05:27			
	16:49	24 08:31 (WTG 04)	17:26		18:00		19:34	20:06	20:33			
10	07:27	08:07 (WTG 04)	07:04		06:23		06:31	05:48	05:27			
	16:50	25 08:32 (WTG 04)	17:27		18:01		19:35	20:07	20:34			
11	07:27	08:08 (WTG 04)	07:03		06:21		06:29	05:47	05:27			
	16:51	25 08:33 (WTG 04)	17:29		18:02		19:36	20:08	20:34			
12	07:27	08:07 (WTG 04)	07:01		06:20		06:28	05:46	05:27			19:38 (WTG 02)
	16:52	26 08:33 (WTG 04)	17:30		18:03		19:37	20:09	20:35	8		19:46 (WTG 02)
13	07:26	08:08 (WTG 04)	07:00		06:18		06:26	05:45	05:27			19:37 (WTG 02)
	16:53	26 08:34 (WTG 04)	17:31		18:04		19:38	20:10	20:35	11		19:48 (WTG 02)
14	07:26	08:09 (WTG 04)	06:59		06:16		06:25	05:44	05:27			19:36 (WTG 02)
	16:54	26 08:35 (WTG 04)	17:32		18:06		19:39	20:11	20:36	13		19:49 (WTG 02)
15	07:26	08:09 (WTG 04)	06:57		06:15		06:23	05:43	05:27			19:36 (WTG 02)
	16:55	26 08:35 (WTG 04)	17:34		18:07		19:40	20:12	20:36	14		19:50 (WTG 02)
16	07:25	08:09 (WTG 04)	06:56		06:13		06:21	05:42	05:27			19:35 (WTG 02)
	16:56	26 08:35 (WTG 04)	17:35		18:08		19:41	20:13	20:36	16		19:51 (WTG 02)
17	07:25	08:09 (WTG 04)	06:55		06:11		06:20	05:41	05:27			19:35 (WTG 02)
	16:58	26 08:35 (WTG 04)	17:36		18:09		19:43	20:14	20:37	16		19:51 (WTG 02)
18	07:24	08:09 (WTG 04)	06:53		06:10		06:18	05:40	05:27			19:35 (WTG 02)
	16:59	26 08:35 (WTG 04)	17:37		18:10		19:44	20:15	20:37	17		19:52 (WTG 02)
19	07:24	08:10 (WTG 04)	06:52		06:08		06:17	05:39	05:27			19:35 (WTG 02)
	17:00	26 08:36 (WTG 04)	17:39		18:11		19:45	20:16	20:38	17		19:52 (WTG 02)
20	07:23	08:11 (WTG 04)	06:51		06:06		06:15	05:38	05:27			19:36 (WTG 02)
	17:01	24 08:35 (WTG 04)	17:40		18:12		19:46	20:17	20:38	17		19:53 (WTG 02)
21	07:22	08:11 (WTG 04)	06:49		06:04		06:14	05:37	05:27			19:35 (WTG 02)
	17:02	24 08:35 (WTG 04)	17:41		18:13		19:47	20:18	20:38	19		19:54 (WTG 02)
22	07:22	08:12 (WTG 04)	06:48		06:03		06:12	05:37	05:27			19:35 (WTG 02)
	17:04	24 08:36 (WTG 04)	17:42		18:14		19:48	20:19	20:38	19		19:54 (WTG 02)
23	07:21	08:13 (WTG 04)	06:46		06:01		06:11	05:36	05:28			19:36 (WTG 02)
	17:05	22 08:35 (WTG 04)	17:43		18:15		19:49	20:20	20:38	17		19:53 (WTG 02)
24	07:20	08:14 (WTG 04)	06:45		05:59		06:09	05:35	05:28			19:37 (WTG 02)
	17:06	21 08:35 (WTG 04)	17:45		18:17		19:50	20:21	20:39	17		19:54 (WTG 02)
25	07:20	08:14 (WTG 04)	06:43		05:58		06:08	05:34	05:28			19:37 (WTG 02)
	17:07	20 08:34 (WTG 04)	17:46		18:18		19:51	20:22	20:39	17		19:54 (WTG 02)
26	07:19	08:16 (WTG 04)	06:42		05:56		06:06	05:34	05:28			19:37 (WTG 02)
	17:08	18 08:34 (WTG 04)	17:47		18:19		19:52	20:23	20:39	16		19:53 (WTG 02)
27	07:18	08:18 (WTG 04)	06:40		07:03 (7)	05:54	06:05	05:33	05:29			19:39 (WTG 02)
	17:10	15 08:33 (WTG 04)	17:48	2	07:05 (7)	18:20	19:53	20:24	20:39	14		19:53 (WTG 02)
28	07:17	08:20 (WTG 04)	06:39		07:02 (7)	05:53	06:04	05:32	05:29			19:39 (WTG 02)
	17:11	11 08:31 (WTG 04)	17:49	5	07:07 (7)	18:21	19:54	20:24	20:39	14		19:53 (WTG 02)
29	07:16	08:25 (WTG 04)				06:51	06:02	05:32	05:30			19:40 (WTG 02)
	17:12	1 08:26 (WTG 04)				19:22	19:56	20:25	20:39	11		19:51 (WTG 02)
30	07:16					06:49	06:01	05:31	05:30			19:42 (WTG 02)
	17:13					19:23	19:57	20:26	20:39	9		19:51 (WTG 02)
31	07:15					06:48		05:31				
	17:15					19:24		20:27				
Ore potenziali eliofania	296		297		369		399	449	454	282		
Totale, caso peggiore	634		7		9							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 42 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (333)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:44 (WTG 02) 05:55	06:26 06:57	06:32	07:07	07:50 (WTG 04)
2	05:31 20:39	19:49 (WTG 02) 05:56	06:27 06:58	06:33	07:08	25 08:15 (WTG 04)
3	05:32 20:38	20:18 05:57	19:34 06:28	18:43 06:34	16:56 07:09	25 08:15 (WTG 04)
4	05:32 20:38	20:17 05:58	19:32 06:29	18:41 07:00	16:55 07:10	24 08:15 (WTG 04)
5	05:33 20:38	20:16 05:59	19:31 06:30	18:39 07:01	16:54 07:11	23 08:15 (WTG 04)
6	05:33 20:38	20:15 06:00	19:29 06:31	18:38 07:02	16:52 07:12	23 08:15 (WTG 04)
7	05:34 20:37	20:14 06:01	19:27 06:32	18:36 07:03	16:51 07:13	23 08:16 (WTG 04)
8	05:34 20:37	20:12 06:02	19:26 06:33	18:34 07:04	16:50 07:14	22 08:16 (WTG 04)
9	05:35 20:37	20:11 06:03	19:24 06:34	18:33 07:05	16:49 07:15	22 08:16 (WTG 04)
10	05:36 20:36	20:10 06:04	19:22 06:35	18:31 07:06	16:48 07:16	21 08:16 (WTG 04)
11	05:37 20:36	20:09 06:05	19:21 06:36	18:30 07:07	16:47 07:16	20 08:16 (WTG 04)
12	05:37 20:35	20:07 06:06	19:19 06:37	18:28 07:09	16:46 07:17	20 08:16 (WTG 04)
13	05:38 20:35	20:06 06:07	19:17 06:38	18:26 07:10	16:45 07:18	19 08:16 (WTG 04)
14	05:39 20:34	20:05 06:08	19:15 06:39	18:25 07:11	16:44 07:19	18 08:16 (WTG 04)
15	05:40 20:34	20:03 06:09	19:14 06:40	18:23 07:12	16:43 07:20	18 08:17 (WTG 04)
16	05:40 20:33	20:02 06:10	19:12 06:41	18:22 07:13	16:42 07:20	17 08:16 (WTG 04)
17	05:41 20:33	20:00 06:11	19:10 06:42	18:20 07:14	16:41 07:21	17 08:17 (WTG 04)
18	05:42 20:32	19:59 06:12	19:09 06:43	18:18 07:15	16:40 07:22	16 08:17 (WTG 04)
19	05:43 20:31	19:57 06:13	19:07 06:44	18:17 07:16	16:39 07:22	16 08:17 (WTG 04)
20	05:44 20:30	19:56 06:14	19:05 06:45	18:15 07:17	16:38 07:23	16 08:18 (WTG 04)
21	05:45 20:30	19:55 06:15	19:03 06:46	18:14 07:18	16:37 07:23	15 08:18 (WTG 04)
22	05:45 20:29	19:53 06:16	19:02 06:47	18:12 07:20	16:36 07:24	15 08:18 (WTG 04)
23	05:46 20:28	19:52 06:17	19:00 06:48	18:11 07:21	16:35 07:25	15 08:19 (WTG 04)
24	05:47 20:27	19:50 06:18	18:58 06:49	18:09 07:22	16:34 07:25	15 08:19 (WTG 04)
25	05:48 20:26	19:48 06:19	18:57 06:50	18:08 07:23	16:33 07:26	15 08:19 (WTG 04)
26	05:49 20:25	19:47 06:20	18:55 06:51	18:07 07:24	16:32 07:26	16 08:21 (WTG 04)
27	05:50 20:24	19:45 06:21	18:53 06:52	18:06 07:25	16:31 07:26	16 08:21 (WTG 04)
28	05:51 20:24	19:44 06:22	18:51 06:53	18:05 07:26	16:30 07:26	16 08:21 (WTG 04)
29	05:52 20:23	19:42 06:23	18:50 06:54	18:04 07:27	16:29 07:26	17 08:23 (WTG 04)
30	05:53 20:21	19:41 06:24	18:48 06:55	18:03 07:28	16:28 07:27	17 08:23 (WTG 04)
31	05:54 20:20	19:39 06:25	18:46 06:56	18:02 07:29	16:27 07:27	18 08:24 (WTG 04)
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	5			16	392	579

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 43 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (359)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		08:12 (WTG 04)	07:14		06:37	07:14 (WTG 05)	06:46	05:59	05:30		
	16:41	17	08:29 (WTG 04)	17:16		17:51	15 07:29 (WTG 05)	19:25	19:58	20:28		
2	07:28		08:12 (WTG 04)	07:13		06:36	07:13 (WTG 05)	06:44	05:58	05:30		
	16:42	18	08:30 (WTG 04)	17:17		17:52	17 07:30 (WTG 05)	19:26	19:59	20:28		
3	07:28		08:12 (WTG 04)	07:12		06:34	07:12 (WTG 05)	06:42	05:57	05:29		
	16:43	19	08:31 (WTG 04)	17:18		17:53	18 07:30 (WTG 05)	19:27	20:00	20:29		
4	07:28		08:12 (WTG 04)	07:11		06:33	07:12 (WTG 05)	06:41	05:56	05:29		
	16:44	20	08:32 (WTG 04)	17:20		17:54	19 07:31 (WTG 05)	19:28	20:01	20:30		
5	07:28		08:12 (WTG 04)	07:10		06:31	07:12 (WTG 05)	06:39	05:54	05:28		
	16:45	21	08:33 (WTG 04)	17:21		17:55	18 07:30 (WTG 05)	19:30	20:02	20:31		
6	07:28		08:12 (WTG 04)	07:08		06:29	07:11 (WTG 05)	06:37	05:53	05:28		
	16:46	22	08:34 (WTG 04)	17:22		17:56	19 07:30 (WTG 05)	19:31	20:03	20:31		
7	07:28		08:12 (WTG 04)	07:07		06:28	07:12 (WTG 05)	06:36	05:52	05:28		
	16:47	23	08:35 (WTG 04)	17:24		17:58	18 07:30 (WTG 05)	19:32	20:04	20:32		
8	07:27		08:13 (WTG 04)	07:06		06:26	07:12 (WTG 05)	06:34	05:51	05:28		
	16:48	23	08:36 (WTG 04)	17:25		17:59	16 07:28 (WTG 05)	19:33	20:05	20:32		
9	07:27		08:12 (WTG 04)	07:05		06:24	07:13 (WTG 05)	06:33	05:49	05:27		
	16:49	24	08:36 (WTG 04)	17:26		18:00	13 07:26 (WTG 05)	19:34	20:06	20:33		
10	07:27		08:12 (WTG 04)	07:04		06:23	07:15 (WTG 05)	06:31	05:48	05:27		
	16:50	25	08:37 (WTG 04)	17:27		18:01	10 07:25 (WTG 05)	19:35	20:07	20:34		
11	07:27		08:13 (WTG 04)	07:03		06:21		06:29	05:47	05:27		
	16:51	25	08:38 (WTG 04)	17:29		18:02		19:36	20:08	20:34		
12	07:27		08:12 (WTG 04)	07:01		06:20		06:28	05:46	05:27		
	16:52	26	08:38 (WTG 04)	17:30		18:03		19:37	20:09	20:35		
13	07:26		08:13 (WTG 04)	07:00		06:18		06:26	05:45	05:27		
	16:53	26	08:39 (WTG 04)	17:31		18:04		19:38	20:10	20:35		
14	07:26		08:12 (WTG 04)	06:59		06:16		06:25	05:44	05:27		
	16:54	27	08:39 (WTG 04)	17:32		18:06		19:39	20:11	20:36		
15	07:26		08:13 (WTG 04)	06:57		06:15		06:23	05:43	05:27		
	16:55	27	08:40 (WTG 04)	17:34		18:07		19:40	20:12	20:36		
16	07:25		08:13 (WTG 04)	06:56		06:13		06:21	05:42	05:27		
	16:56	28	08:41 (WTG 04)	17:35		18:08		19:41	20:13	20:36		
17	07:25		08:13 (WTG 04)	06:55		06:11		06:20	05:41	05:27		
	16:58	28	08:41 (WTG 04)	17:36		18:09		19:43	20:14	20:37		
18	07:24		08:13 (WTG 04)	06:53		06:10		06:18	05:40	05:27		
	16:59	28	08:41 (WTG 04)	17:37		18:10		19:44	20:15	20:37		
19	07:24		08:14 (WTG 04)	06:52		06:08		06:17	05:39	05:27		
	17:00	28	08:42 (WTG 04)	17:39		18:11		19:45	20:16	20:38		
20	07:23		08:14 (WTG 04)	06:51		06:06		06:15	05:38	05:27		
	17:01	28	08:42 (WTG 04)	17:40		18:12		19:46	20:17	20:38		
21	07:22		08:14 (WTG 04)	06:49		06:04		06:14	05:37	05:27		
	17:02	28	08:42 (WTG 04)	17:41		18:13		19:47	20:18	20:38		
22	07:22		08:15 (WTG 04)	06:48		06:03		06:12	05:37	05:27		
	17:04	27	08:42 (WTG 04)	17:42		18:14		19:48	20:19	20:38		
23	07:21		08:16 (WTG 04)	06:46		06:01		06:11	05:36	05:28		
	17:05	26	08:42 (WTG 04)	17:43		18:15		19:49	20:20	20:38		
24	07:20		08:16 (WTG 04)	06:45		05:59		06:09	05:35	05:28		
	17:06	26	08:42 (WTG 04)	17:45		18:17		19:50	20:21	20:39		
25	07:20		08:17 (WTG 04)	06:43		05:58		06:08	05:34	05:28		
	17:07	24	08:41 (WTG 04)	17:46		18:18		19:51	20:22	20:39		
26	07:19		08:18 (WTG 04)	06:42		05:56		06:06	05:34	05:28		
	17:08	24	08:42 (WTG 04)	17:47		18:19		19:52	20:23	20:39		
27	07:18		08:19 (WTG 04)	06:40		05:54		06:05	05:33	05:29		
	17:10	22	08:41 (WTG 04)	17:48	7	07:18 (WTG 05)	05:54	19:53	20:24	20:39		
28	07:17		08:20 (WTG 04)	06:39		05:53		06:04	05:32	05:29		
	17:11	20	08:40 (WTG 04)	17:49	12	07:16 (WTG 05)	05:53	19:54	20:24	20:39		
29	07:16		08:22 (WTG 04)			06:51		06:02	05:32	05:30		
	17:12	17	08:39 (WTG 04)			19:22		19:56	20:25	20:39		
30	07:16		08:24 (WTG 04)			06:49		06:01	05:31	05:30		
	17:13	13	08:37 (WTG 04)			19:23		19:57	20:26	20:39		
31	07:15		08:26 (WTG 04)			06:48			05:31			
	17:15	9	08:35 (WTG 04)			19:24			20:27			
Ore potenziali eliofanìa	296			297		369		399	449	454		
Totale, caso peggiore	719			19		163						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 43 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (359)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	25 08:20 (WTG 04) 07:08 07:55 (WTG 04) 16:32 25 08:20 (WTG 04)
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 07:56 (WTG 04) 16:32 24 08:20 (WTG 04)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:10 07:57 (WTG 04) 16:32 23 08:20 (WTG 04)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 07:57 (WTG 04) 16:31 23 08:20 (WTG 04)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 07:58 (WTG 04) 16:31 22 08:20 (WTG 04)
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 07:59 (WTG 04) 16:31 21 08:20 (WTG 04)
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 08:00 (WTG 04) 16:31 20 08:20 (WTG 04)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 08:01 (WTG 04) 16:31 19 08:20 (WTG 04)
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 08:02 (WTG 04) 16:31 18 08:20 (WTG 04)
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 08:02 (WTG 04) 9 08:06 (WTG 04) 16:31 18 08:20 (WTG 04)
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 08:03 (WTG 04) 14 08:08 (WTG 04) 16:31 17 08:20 (WTG 04)
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	07:18 08:04 (WTG 04) 17 08:11 (WTG 04) 16:31 16 08:20 (WTG 04)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 08:05 (WTG 04) 20 08:12 (WTG 04) 16:32 15 08:20 (WTG 04)
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:20 08:05 (WTG 04) 22 08:13 (WTG 04) 16:32 15 08:20 (WTG 04)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 08:06 (WTG 04) 24 08:15 (WTG 04) 16:32 14 08:20 (WTG 04)
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 08:07 (WTG 04) 24 08:15 (WTG 04) 16:32 13 08:20 (WTG 04)
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 08:08 (WTG 04) 26 08:16 (WTG 04) 16:33 12 08:20 (WTG 04)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 08:09 (WTG 04) 26 08:16 (WTG 04) 16:33 12 08:21 (WTG 04)
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	07:23 08:10 (WTG 04) 27 08:17 (WTG 04) 16:34 11 08:21 (WTG 04)
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 08:10 (WTG 04) 28 08:18 (WTG 04) 16:34 11 08:21 (WTG 04)
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 08:11 (WTG 04) 28 08:18 (WTG 04) 16:34 11 08:22 (WTG 04)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 08:11 (WTG 04) 28 08:18 (WTG 04) 16:35 11 08:22 (WTG 04)
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	07:25 08:11 (WTG 04) 28 08:19 (WTG 04) 16:36 12 08:23 (WTG 04)
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35	07:25 08:12 (WTG 04) 28 08:19 (WTG 04) 16:36 12 08:24 (WTG 04)
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 08:12 (WTG 04) 27 08:19 (WTG 04) 16:37 12 08:24 (WTG 04)
27	05:50 20:24	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:34	07:26 08:11 (WTG 04) 27 08:19 (WTG 04) 16:37 14 08:25 (WTG 04)
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:02	07:04 16:34	07:26 08:12 (WTG 04) 27 08:19 (WTG 04) 16:38 14 08:26 (WTG 04)
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	07:27 08:12 (WTG 04) 26 08:19 (WTG 04) 16:39 15 08:27 (WTG 04)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 08:12 (WTG 04) 26 08:20 (WTG 04) 16:40 16 08:28 (WTG 04)
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 16:59	07:07 16:40	07:27 08:12 (WTG 04) 16:40 16 08:28 (WTG 04)
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore				182	482	507

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 44 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (360)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:13 (WTG 04)	07:14	08:20 (WTG 04)	06:37	07:13 (WTG 05)	06:46	05:59	05:30			
	16:41	8 08:21 (WTG 04)	17:16	13 08:33 (WTG 04)	17:51	12 07:25 (WTG 05)	19:25	19:58	20:28			
2	07:28	08:12 (WTG 04)	07:13	08:23 (WTG 04)	06:36	07:12 (WTG 05)	06:44	05:58	05:30			
	16:42	10 08:22 (WTG 04)	17:17	8 08:31 (WTG 04)	17:52	15 07:27 (WTG 05)	19:26	19:59	20:28			
3	07:28	08:11 (WTG 04)	07:12		06:34	07:11 (WTG 05)	06:42	05:57	05:29			
	16:43	12 08:23 (WTG 04)	17:18		17:53	16 07:27 (WTG 05)	19:27	20:00	20:29			
4	07:28	08:11 (WTG 04)	07:11		06:33	07:10 (WTG 05)	06:41	05:56	05:29			
	16:44	14 08:25 (WTG 04)	17:20		17:54	18 07:28 (WTG 05)	19:28	20:01	20:30			
5	07:28	08:11 (WTG 04)	07:10		06:31	07:09 (WTG 05)	06:39	05:54	05:28			
	16:45	15 08:26 (WTG 04)	17:21		17:55	19 07:28 (WTG 05)	19:30	20:02	20:31			
6	07:28	08:11 (WTG 04)	07:08		06:29	07:09 (WTG 05)	06:37	05:53	05:28			
	16:46	16 08:27 (WTG 04)	17:22		17:56	18 07:27 (WTG 05)	19:31	20:03	20:31			
7	07:28	08:11 (WTG 04)	07:07		06:28	07:09 (WTG 05)	06:36	05:52	05:28			
	16:47	18 08:29 (WTG 04)	17:24		17:58	19 07:28 (WTG 05)	19:32	20:04	20:32			
8	07:27	08:11 (WTG 04)	07:06		06:26	07:09 (WTG 05)	06:34	05:51	05:28			
	16:48	19 08:30 (WTG 04)	17:25		17:59	17 07:26 (WTG 05)	19:33	20:05	20:32			
9	07:27	08:10 (WTG 04)	07:05		06:24	07:09 (WTG 05)	06:33	05:49	05:27			
	16:49	20 08:30 (WTG 04)	17:26		18:00	16 07:25 (WTG 05)	19:34	20:06	20:33			
10	07:27	08:10 (WTG 04)	07:04		06:23	07:11 (WTG 05)	06:31	05:48	05:27			
	16:50	21 08:31 (WTG 04)	17:27		18:01	13 07:24 (WTG 05)	19:35	20:07	20:34			
11	07:27	08:10 (WTG 04)	07:03		06:21	07:13 (WTG 05)	06:29	05:47	05:27			
	16:51	22 08:32 (WTG 04)	17:29		18:02	8 07:21 (WTG 05)	19:36	20:08	20:34			
12	07:27	08:09 (WTG 04)	07:01		06:20		06:28	05:46	05:27			
	16:52	24 08:33 (WTG 04)	17:30		18:03		19:37	20:09	20:35			
13	07:26	08:10 (WTG 04)	07:00		06:18		06:26	05:45	05:27			
	16:53	24 08:34 (WTG 04)	17:31		18:04		19:38	20:10	20:35			
14	07:26	08:09 (WTG 04)	06:59		06:16		06:25	05:44	05:27			
	16:54	25 08:34 (WTG 04)	17:32		18:06		19:39	20:11	20:36			
15	07:26	08:09 (WTG 04)	06:57		06:15		06:23	05:43	05:27			
	16:55	26 08:35 (WTG 04)	17:34		18:07		19:40	20:12	20:36			
16	07:25	08:10 (WTG 04)	06:56		06:13		06:21	05:42	05:27			
	16:56	26 08:36 (WTG 04)	17:35		18:08		19:41	20:13	20:36			
17	07:25	08:10 (WTG 04)	06:55		06:11		06:20	05:41	05:27			
	16:58	26 08:36 (WTG 04)	17:36		18:09		19:43	20:14	20:37			
18	07:24	08:09 (WTG 04)	06:53		06:10		06:18	05:40	05:27			
	16:59	28 08:37 (WTG 04)	17:37		18:10		19:44	20:15	20:37			
19	07:24	08:10 (WTG 04)	06:52		06:08		06:17	05:39	05:27			
	17:00	28 08:38 (WTG 04)	17:39		18:11		19:45	20:16	20:38			
20	07:23	08:10 (WTG 04)	06:51		06:06		06:15	05:38	05:27			
	17:01	28 08:38 (WTG 04)	17:40		18:12		19:46	20:17	20:38			
21	07:22	08:10 (WTG 04)	06:49		06:04		06:14	05:37	05:27			
	17:02	28 08:38 (WTG 04)	17:41		18:13		19:47	20:18	20:38			
22	07:22	08:11 (WTG 04)	06:48		06:03		06:12	05:37	05:27			
	17:04	28 08:39 (WTG 04)	17:42		18:14		19:48	20:19	20:38			
23	07:21	08:11 (WTG 04)	06:46		06:01		06:11	05:36	05:28			
	17:05	27 08:38 (WTG 04)	17:43		18:15		19:49	20:20	20:38			
24	07:20	08:11 (WTG 04)	06:45		05:59		06:09	05:35	05:28			
	17:06	27 08:38 (WTG 04)	17:45		18:17		19:50	20:21	20:39			
25	07:20	08:12 (WTG 04)	06:43		05:58		06:08	05:34	05:28			
	17:07	26 08:38 (WTG 04)	17:46		18:18		19:51	20:22	20:39			
26	07:19	08:13 (WTG 04)	06:42		05:56		06:06	05:34	05:28			
	17:08	26 08:39 (WTG 04)	17:47		18:19		19:52	20:23	20:39			
27	07:18	08:14 (WTG 04)	06:40		05:54		06:05	05:33	05:29			
	17:10	24 08:38 (WTG 04)	17:48		18:20		19:53	20:24	20:39			
28	07:17	08:14 (WTG 04)	06:39		05:53		06:04	05:32	05:29			
	17:11	24 08:38 (WTG 04)	17:49		18:21		19:54	20:24	20:39			
29	07:16	08:15 (WTG 04)			06:51		06:02	05:32	05:30			
	17:12	22 08:37 (WTG 04)			19:22		19:56	20:25	20:39			
30	07:16	08:17 (WTG 04)			06:49		06:01	05:31	05:30			
	17:13	19 08:36 (WTG 04)			19:23		19:57	20:26	20:39			
31	07:15	08:18 (WTG 04)			06:48			05:31				
	17:15	17 08:35 (WTG 04)			19:24			20:27				
Ore potenziali eliofanìa	296		297		369		399	449	454			
Totale, caso peggiore	678		27		171							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 44 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (360)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57		07:07 16:32	07:52 (WTG 04) 23 08:15 (WTG 04)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	5	07:53 (WTG 05) 07:58 (WTG 05)	06:33 16:56	07:08 16:32	07:53 (WTG 04) 21 08:14 (WTG 04)
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	12	07:49 (WTG 05) 08:01 (WTG 05)	06:34 16:55	07:09 16:32	07:54 (WTG 04) 20 08:14 (WTG 04)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	14	07:48 (WTG 05) 08:02 (WTG 05)	06:35 16:54	07:10 16:32	07:55 (WTG 04) 19 08:14 (WTG 04)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	17	07:46 (WTG 05) 08:03 (WTG 05)	06:36 16:52	07:11 16:31	07:56 (WTG 04) 18 08:14 (WTG 04)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	18	07:45 (WTG 05) 08:03 (WTG 05)	06:38 16:51	07:12 16:31	07:57 (WTG 04) 16 08:13 (WTG 04)
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	18	07:45 (WTG 05) 08:03 (WTG 05)	06:39 16:50	07:13 16:31	07:58 (WTG 04) 15 08:13 (WTG 04)
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	19	07:44 (WTG 05) 08:03 (WTG 05)	06:40 16:49	07:14 16:31	07:59 (WTG 04) 14 08:13 (WTG 04)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	18	07:45 (WTG 05) 08:03 (WTG 05)	06:41 16:48	07:15 16:31	08:00 (WTG 04) 13 08:13 (WTG 04)
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	17	07:45 (WTG 05) 08:02 (WTG 05)	06:42 16:47	07:16 16:31	08:02 (WTG 04) 10 08:12 (WTG 04)
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	16	07:45 (WTG 05) 08:01 (WTG 05)	06:44 16:46	07:16 16:31	08:02 (WTG 04) 9 08:11 (WTG 04)
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	14	07:46 (WTG 05) 08:00 (WTG 05)	06:45 16:45	07:17 16:31	08:04 (WTG 04) 6 08:10 (WTG 04)
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	9	07:48 (WTG 05) 07:57 (WTG 05)	06:46 16:44	07:18 16:31	08:10 (WTG 04) 22 08:09 (WTG 04)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23		06:47 16:43	06:47 16:43	07:19 16:32	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22		06:48 16:42	06:48 16:42	07:20 16:32	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20		06:50 16:41	06:50 16:41	07:20 16:32	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18		06:51 16:40	06:51 16:40	07:21 16:32	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17		06:52 16:40	06:52 16:40	07:22 16:33	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15		06:53 16:39	06:53 16:39	07:22 16:33	07:22 16:33
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14		06:54 16:38	06:54 16:38	07:23 16:34	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12		06:56 16:37	06:56 16:37	07:23 16:34	07:23 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11		06:57 16:37	06:57 16:37	07:24 16:34	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09		06:58 16:36	06:58 16:36	07:24 16:35	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08		06:59 16:36	06:59 16:36	07:25 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07		07:00 16:35	07:00 16:35	07:25 16:36	07:25 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05		07:01 16:34	07:01 16:34	07:26 16:37	07:26 16:37
27	05:50 20:24	06:21 19:44	06:53 18:51	07:26 17:04		07:03 16:34	07:03 16:34	07:26 16:37	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:02		07:04 16:34	07:04 16:34	07:26 16:38	07:26 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01		07:05 16:33	07:05 16:33	07:27 16:39	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00		07:06 16:33	07:06 16:33	07:27 16:40	07:27 16:40
31	05:54 20:20	06:25 19:37		06:30 16:59				07:27 16:40	08:14 (WTG 04) 4 08:18 (WTG 04)
Ore potenziali eliofania	460	429	375	345		297		286	
Totale, caso peggiore				177		527		188	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 45 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (319)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		07:14		07:56 (WTG 04)	06:37	06:46	05:59	05:30			
	16:41		17:16	26	08:22 (WTG 04)	17:51	19:25	19:58	20:28			
2	07:28		07:13		07:56 (WTG 04)	06:36	06:44	05:58	05:30			
	16:42		17:17	26	08:22 (WTG 04)	17:52	19:26	19:59	20:28			
3	07:28		07:12		07:57 (WTG 04)	06:34	06:42	05:57	05:29			
	16:43		17:18	25	08:22 (WTG 04)	17:53	19:27	20:00	20:29			
4	07:28		07:11		07:57 (WTG 04)	06:33	06:41	05:56	05:29			
	16:44		17:20	25	08:22 (WTG 04)	17:54	19:29	20:01	20:30			
5	07:28		07:10		07:58 (WTG 04)	06:31	06:39	05:54	05:28			
	16:45		17:21	23	08:21 (WTG 04)	17:55	19:30	20:02	20:31			
6	07:28		07:08		07:58 (WTG 04)	06:29	06:38	05:53	05:28			
	16:46		17:22	22	08:20 (WTG 04)	17:56	19:31	20:03	20:31			
7	07:28		07:07		08:00 (WTG 04)	06:28	06:36	05:52	05:28			
	16:47		17:24	19	08:19 (WTG 04)	17:58	19:32	20:04	20:32			
8	07:27		07:06		08:02 (WTG 04)	06:26	06:34	05:51	05:28			
	16:48		17:25	15	08:17 (WTG 04)	17:59	19:33	20:05	20:32			
9	07:27		07:05		08:04 (WTG 04)	06:24	06:33	05:49	05:27			
	16:49		17:26	12	08:16 (WTG 04)	18:00	19:34	20:06	20:33			
10	07:27		07:04		08:09 (WTG 04)	06:23	06:31	05:48	05:27			
	16:50		17:27	2	08:11 (WTG 04)	18:01	19:35	20:07	20:34			
11	07:27		07:03		06:21	06:29	05:47	05:27	05:27			
	16:51		17:29		18:02	19:36	20:08	20:34	20:34			
12	07:27		07:01		06:20	06:28	05:46	05:27	05:27			
	16:52		17:30		18:03	19:37	20:09	20:35	20:35			
13	07:26		07:00		06:18	06:26	05:45	05:27	05:27			
	16:53		17:31		18:04	19:38	20:10	20:35	20:35			
14	07:26		06:59		06:16	06:25	05:44	05:27	05:27			
	16:54		17:32		18:06	19:39	20:11	20:36	20:36			
15	07:26		06:57		06:15	06:23	05:43	05:27	05:27			
	16:55		17:34		18:07	19:40	20:12	20:36	20:36			
16	07:25		06:56		06:13	06:21	05:42	05:27	05:27			
	16:56		17:35		18:08	19:41	20:13	20:36	20:36			
17	07:25		06:55		06:11	06:20	05:41	05:27	05:27			
	16:58		17:36		18:09	19:43	20:14	20:37	20:37			
18	07:24		06:53		06:10	06:18	05:40	05:27	05:27			
	16:59	8	08:01 (WTG 04)	06:53	18:10	19:44	20:15	20:37	20:37			
19	07:24		06:52		06:08	06:17	05:39	05:27	05:27			
	17:00	12	08:12 (WTG 04)	17:39	18:11	19:45	20:16	20:38	20:38			
20	07:23		06:51		06:06	06:15	05:38	05:27	05:27			
	17:01	15	08:13 (WTG 04)	17:40	18:12	19:46	20:17	20:38	20:38			
21	07:22		06:49		06:04	06:14	05:37	05:27	05:27			
	17:02	18	08:15 (WTG 04)	17:41	18:13	19:47	20:18	20:38	20:38			
22	07:22		06:48		06:03	06:12	05:37	05:27	05:27			
	17:04	20	08:17 (WTG 04)	17:42	18:14	19:48	20:19	20:38	20:38			
23	07:21		06:46		06:01	06:11	05:36	05:28	05:28			
	17:05	21	08:17 (WTG 04)	17:43	18:15	19:49	20:20	20:38	20:38			
24	07:20		06:45		05:59	06:09	05:35	05:28	05:28			
	17:06	22	08:18 (WTG 04)	17:45	18:17	19:50	20:21	20:39	20:39			
25	07:20		06:43		05:58	06:08	05:34	05:28	05:28			
	17:07	24	08:19 (WTG 04)	17:46	18:18	19:51	20:22	20:39	20:39			
26	07:19		06:42		05:56	06:06	05:34	05:28	05:28			
	17:08	24	08:20 (WTG 04)	17:47	18:19	19:52	20:23	20:39	20:39			
27	07:18		06:40		05:54	06:05	05:33	05:29	05:29			
	17:10	26	08:21 (WTG 04)	17:48	18:20	19:53	20:24	20:39	20:39			
28	07:17		06:39		05:53	06:04	05:32	05:29	05:29			
	17:11	26	08:21 (WTG 04)	17:49	18:21	19:54	20:24	20:39	20:39			
29	07:16		06:39		06:51	06:02	05:32	05:30	05:30			
	17:12	27	08:22 (WTG 04)		19:22	19:56	20:25	20:39	20:39			
30	07:16		06:39		06:49	06:01	05:31	05:30	05:30			
	17:13	27	08:22 (WTG 04)		19:23	19:57	20:26	20:39	20:39			
31	07:15		06:39		06:48	06:01	05:31	05:30	05:30			
	17:15	27	08:22 (WTG 04)		19:24	19:58	20:27	20:40	20:40			
Ore potenziali eliofanìa	296		297		369	399	449	454	454			
Totale, caso peggiore	297		195		369	399	449	454	454			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 45 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (319)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:36 (WTG 04) 07:07 5 07:41 (WTG 04) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:33 (WTG 04) 07:08 13 07:46 (WTG 04) 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:31 (WTG 04) 07:09 17 07:48 (WTG 04) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:29 (WTG 04) 07:10 20 07:49 (WTG 04) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:28 (WTG 04) 07:11 22 07:50 (WTG 04) 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:28 (WTG 04) 07:12 23 07:51 (WTG 04) 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:27 (WTG 04) 07:13 25 07:52 (WTG 04) 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:27 (WTG 04) 07:14 25 07:52 (WTG 04) 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:27 (WTG 04) 07:15 26 07:53 (WTG 04) 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:27 (WTG 04) 07:16 26 07:53 (WTG 04) 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:26 (WTG 04) 07:16 27 07:53 (WTG 04) 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:27 (WTG 04) 07:17 27 07:54 (WTG 04) 16:31
13	05:38 20:34	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	07:27 (WTG 04) 07:18 27 07:54 (WTG 04) 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:27 (WTG 04) 07:19 26 07:53 (WTG 04) 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:27 (WTG 04) 07:20 26 07:53 (WTG 04) 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:29 (WTG 04) 07:20 24 07:53 (WTG 04) 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:29 (WTG 04) 07:21 24 07:53 (WTG 04) 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:30 (WTG 04) 07:22 22 07:52 (WTG 04) 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:30 (WTG 04) 07:22 21 07:51 (WTG 04) 16:33
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	07:32 (WTG 04) 07:23 20 07:52 (WTG 04) 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:33 (WTG 04) 07:23 18 07:51 (WTG 04) 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:34 (WTG 04) 07:24 16 07:50 (WTG 04) 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:36 (WTG 04) 07:24 12 07:48 (WTG 04) 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	07:39 (WTG 04) 07:25 8 07:47 (WTG 04) 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35	07:25 17 13:01 (WTG 03) 16:36 17 13:18 (WTG 03)
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16 13:02 (WTG 03) 16:37 16 13:18 (WTG 03)
27	05:50 20:24	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:34	07:26 14 13:17 (WTG 03) 07:26 14 13:17 (WTG 03)
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:02	07:04 16:34	07:26 11 13:06 (WTG 03) 16:38 11 13:17 (WTG 03)
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	07:27 7 13:08 (WTG 03) 16:39 7 13:15 (WTG 03)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 16:40
31	05:54 20:20	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore					500	227

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 46 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (361)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	13:38 (WTG 03)	07:14	08:05 (WTG 04)	06:37		06:46	05:59	05:30			
	16:41	52 14:30 (WTG 03)	17:16	27 08:32 (WTG 04)	17:51		19:25	19:58	20:28			
2	07:28	13:38 (WTG 03)	07:13	08:05 (WTG 04)	06:36		06:44	05:58	05:30			
	16:42	52 14:30 (WTG 03)	17:17	27 08:32 (WTG 04)	17:52		19:26	19:59	20:28			
3	07:28	13:39 (WTG 03)	07:12	08:06 (WTG 04)	06:34		06:42	05:57	05:29			
	16:43	51 14:30 (WTG 03)	17:18	26 08:32 (WTG 04)	17:53		19:27	20:00	20:29			
4	07:28	13:40 (WTG 03)	07:11	08:07 (WTG 04)	06:33		06:41	05:56	05:29			
	16:44	51 14:31 (WTG 03)	17:20	24 08:31 (WTG 04)	17:54		19:28	20:01	20:30			
5	07:28	13:41 (WTG 03)	07:10	08:08 (WTG 04)	06:31		06:39	05:54	05:28			
	16:45	50 14:31 (WTG 03)	17:21	22 08:30 (WTG 04)	17:55	8	07:07 (WTG 05)	19:30	20:02	20:31		
6	07:28	13:42 (WTG 03)	07:08	08:09 (WTG 04)	06:29		07:04 (WTG 05)	06:37	05:53	05:28		
	16:46	49 14:31 (WTG 03)	17:22	19 08:28 (WTG 04)	17:56	13	07:17 (WTG 05)	19:31	20:03	20:31		
7	07:28	13:43 (WTG 03)	07:07	08:11 (WTG 04)	06:28		07:03 (WTG 05)	06:36	05:52	05:28		
	16:47	48 14:31 (WTG 03)	17:24	16 08:27 (WTG 04)	17:58	16	07:19 (WTG 05)	19:32	20:04	20:32		
8	07:27	13:44 (WTG 03)	07:06	08:13 (WTG 04)	06:26		07:01 (WTG 05)	06:34	05:51	05:28		
	16:48	47 14:31 (WTG 03)	17:25	12 08:25 (WTG 04)	17:59	18	07:19 (WTG 05)	19:33	20:05	20:32		
9	07:27	13:44 (WTG 03)	07:05		06:24		07:00 (WTG 05)	06:33	05:49	05:27		
	16:49	47 14:31 (WTG 03)	17:26		18:00	19	07:19 (WTG 05)	19:34	20:06	20:33		
10	07:27	13:46 (WTG 03)	07:04		06:23		07:00 (WTG 05)	06:31	05:48	05:27		
	16:50	45 14:31 (WTG 03)	17:27		18:01	20	07:20 (WTG 05)	19:35	20:07	20:34		
11	07:27	13:47 (WTG 03)	07:03		06:21		07:00 (WTG 05)	06:29	05:47	05:27		
	16:51	44 14:31 (WTG 03)	17:29		18:02	19	07:19 (WTG 05)	19:36	20:08	20:34		
12	07:27	13:48 (WTG 03)	07:01		06:20		06:59 (WTG 05)	06:28	05:46	05:27		
	16:52	42 14:30 (WTG 03)	17:30		18:03	19	07:18 (WTG 05)	19:37	20:09	20:35		
13	07:26	08:09 (WTG 04)	07:00		06:18		07:00 (WTG 05)	06:26	05:45	05:27		
	16:53	50 14:30 (WTG 03)	17:31		18:04	18	07:18 (WTG 05)	19:38	20:10	20:35		
14	07:26	08:07 (WTG 04)	06:59		06:16		07:01 (WTG 05)	06:25	05:44	05:27		
	16:54	52 14:29 (WTG 03)	17:32		18:06	15	07:16 (WTG 05)	19:39	20:11	20:36		
15	07:26	08:06 (WTG 04)	06:57		06:15		07:01 (WTG 05)	06:23	05:43	05:27		
	16:55	53 14:29 (WTG 03)	17:34		18:07	14	07:15 (WTG 05)	19:40	20:12	20:36		
16	07:25	08:06 (WTG 04)	06:56		06:13		07:04 (WTG 05)	06:21	05:42	05:27		
	16:56	53 14:29 (WTG 03)	17:35		18:08	9	07:13 (WTG 05)	19:41	20:13	20:36		
17	07:25	08:05 (WTG 04)	06:55		06:11			06:20	05:41	05:27		
	16:58	51 14:27 (WTG 03)	17:36		18:09			19:43	20:14	20:37		
18	07:24	08:04 (WTG 04)	06:53		06:10			06:18	05:40	05:27		
	16:59	51 14:26 (WTG 03)	17:37		18:10			19:44	20:15	20:37		
19	07:24	08:04 (WTG 04)	06:52		06:08			06:17	05:39	05:27		
	17:00	48 14:25 (WTG 03)	17:39		18:11			19:45	20:16	20:38		
20	07:23	08:03 (WTG 04)	06:51		06:06			06:15	05:38	05:27		
	17:01	44 14:22 (WTG 03)	17:40		18:12			19:46	20:17	20:38		
21	07:22	08:03 (WTG 04)	06:49		06:04			06:14	05:37	05:27		
	17:02	36 14:18 (WTG 03)	17:41		18:13			19:47	20:18	20:38		
22	07:22	08:03 (WTG 04)	06:48		06:03			06:12	05:37	05:27		
	17:04	27 08:30 (WTG 04)	17:42		18:14			19:48	20:19	20:38		
23	07:21	08:03 (WTG 04)	06:46		06:01			06:11	05:36	05:28		
	17:05	27 08:30 (WTG 04)	17:43		18:15			19:49	20:20	20:38		
24	07:20	08:03 (WTG 04)	06:45		05:59			06:09	05:35	05:28		
	17:06	28 08:31 (WTG 04)	17:45		18:17			19:50	20:21	20:39		
25	07:20	08:02 (WTG 04)	06:43		05:58			06:08	05:34	05:28		
	17:07	29 08:31 (WTG 04)	17:46		18:18			19:51	20:22	20:39		
26	07:19	08:03 (WTG 04)	06:42		05:56			06:06	05:34	05:28		
	17:08	29 08:32 (WTG 04)	17:47		18:19			19:52	20:23	20:39		
27	07:18	08:03 (WTG 04)	06:40		05:54			06:05	05:33	05:29		
	17:10	29 08:32 (WTG 04)	17:48		18:20			19:53	20:24	20:39		
28	07:17	08:03 (WTG 04)	06:39		05:53			06:04	05:32	05:29		
	17:11	30 08:33 (WTG 04)	17:49		18:21			19:54	20:24	20:39		
29	07:16	08:04 (WTG 04)			06:51			06:02	05:32	05:30		
	17:12	29 08:33 (WTG 04)			19:22			19:56	20:25	20:39		
30	07:16	08:04 (WTG 04)			06:49			06:01	05:31	05:30		
	17:13	29 08:33 (WTG 04)			19:23			19:57	20:26	20:39		
31	07:15	08:04 (WTG 04)			06:48				05:31			
	17:15	29 08:33 (WTG 04)			19:24				20:27			
Ore potenziali eliofanìa	296		297		369			399	449	454		
Totale, caso peggiore	1302		173		188							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 46 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (361)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 19:36	06:26	06:57	07:39 (WTG 05) 06:32	07:07
2	05:31 20:39	05:56 19:34	06:27	06:58	07:38 (WTG 05) 06:33	07:08
3	05:32 20:38	05:57 19:32	06:28	06:59	07:38 (WTG 05) 06:34	07:09
4	05:32 20:38	05:58 19:31	06:29	07:00	07:38 (WTG 05) 06:35	07:10
5	05:33 20:38	05:59 19:29	06:30	07:01	07:38 (WTG 05) 06:36	07:11
6	05:33 20:38	06:00 19:27	06:31	07:02	07:38 (WTG 05) 06:38	07:12
7	05:34 20:37	06:01 19:26	06:32	07:03	07:39 (WTG 05) 06:39	07:13
8	05:34 20:37	06:02 19:24	06:33	07:04	07:40 (WTG 05) 06:40	07:14
9	05:35 20:37	06:03 19:22	06:34	07:05	07:45 (WTG 05) 06:41	07:15
10	05:36 20:36	06:04 19:21	06:35	07:06	07:48 (WTG 05) 06:42	07:16
11	05:37 20:36	06:05 19:19	06:36	07:07	07:48 (WTG 05) 06:44	07:16
12	05:37 20:35	06:06 19:17	06:37	07:09	07:48 (WTG 05) 06:45	07:17
13	05:38 20:35	06:07 19:15	06:38	07:10	07:48 (WTG 05) 06:46	07:18
14	05:39 20:34	06:08 19:14	06:39	07:11	07:48 (WTG 05) 06:47	07:19
15	05:40 20:34	06:09 19:12	06:40	07:12	07:48 (WTG 05) 06:48	07:20
16	05:40 20:33	06:10 19:10	06:41	07:13	07:48 (WTG 05) 06:50	07:20
17	05:41 20:33	06:11 19:09	06:42	07:14	07:48 (WTG 05) 06:51	07:21
18	05:42 20:32	06:12 19:07	06:43	07:15	07:48 (WTG 05) 06:52	07:22
19	05:43 20:31	06:13 19:05	06:44	07:16	07:48 (WTG 05) 06:53	07:22
20	05:44 20:30	06:14 19:03	06:45	07:17	07:48 (WTG 05) 06:54	07:23
21	05:45 20:30	06:15 19:02	06:46	07:19	07:48 (WTG 05) 06:56	07:23
22	05:45 20:29	06:16 19:00	06:47	07:20	07:48 (WTG 05) 06:57	07:24
23	05:46 20:28	06:17 18:58	06:48	07:21	07:48 (WTG 05) 06:58	07:24
24	05:47 20:27	06:18 18:57	06:49	07:22	07:48 (WTG 05) 06:59	07:25
25	05:48 20:26	06:19 18:55	06:50	07:23	07:48 (WTG 05) 07:00	07:25
26	05:49 20:25	06:20 18:53	06:51	07:24	07:48 (WTG 05) 07:01	07:26
27	05:50 20:24	06:21 18:51	06:53	07:25	07:48 (WTG 05) 07:03	07:26
28	05:51 20:24	06:22 18:50	06:54	07:26	07:48 (WTG 05) 07:04	07:26
29	05:52 20:23	06:23 18:48	06:55	07:28	07:48 (WTG 05) 07:05	07:27
30	05:53 20:21	06:24 18:46	06:56	07:29	07:48 (WTG 05) 07:06	07:27
31	05:54 20:20	06:25 19:37	06:57	07:30	07:48 (WTG 05) 07:07	07:27
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore			50	138	942	1620

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 47 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (362)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo			Aprile	Maggio	Giugno
1	07:27	13:08 (WTG 03)	07:14	07:48 (WTG 04)	06:37		06:46	05:59	05:30	
	16:41	70 14:18 (WTG 03)	17:16	23 08:11 (WTG 04)	17:51		19:25	19:58	20:28	
2	07:28	13:09 (WTG 03)	07:13	07:47 (WTG 04)	06:36		06:44	05:58	05:30	
	16:42	70 14:19 (WTG 03)	17:17	25 08:12 (WTG 04)	17:52		19:26	19:59	20:28	
3	07:28	13:09 (WTG 03)	07:12	07:47 (WTG 04)	06:34		06:42	05:57	05:29	
	16:43	70 14:19 (WTG 03)	17:18	26 08:13 (WTG 04)	17:53		19:27	20:00	20:29	
4	07:28	13:10 (WTG 03)	07:11	07:46 (WTG 04)	06:33		06:41	05:56	05:29	
	16:44	69 14:19 (WTG 03)	17:20	27 08:13 (WTG 04)	17:54		19:28	20:01	20:30	
5	07:28	13:11 (WTG 03)	07:10	07:46 (WTG 04)	06:31		06:39	05:54	05:28	
	16:45	69 14:20 (WTG 03)	17:21	28 08:14 (WTG 04)	17:55		19:30	20:02	20:31	
6	07:28	13:12 (WTG 03)	07:08	07:45 (WTG 04)	06:29		06:38	05:53	05:28	
	16:46	68 14:20 (WTG 03)	17:22	28 08:13 (WTG 04)	17:56		19:31	20:03	20:31	
7	07:28	13:13 (WTG 03)	07:07	07:45 (WTG 04)	06:28		06:36	05:52	05:28	
	16:47	67 14:20 (WTG 03)	17:24	29 08:14 (WTG 04)	17:58		19:32	20:04	20:32	
8	07:27	13:14 (WTG 03)	07:06	07:46 (WTG 04)	06:26		06:34	05:51	05:28	
	16:48	67 14:21 (WTG 03)	17:25	28 08:14 (WTG 04)	17:59		19:33	20:05	20:32	
9	07:27	13:14 (WTG 03)	07:05	07:46 (WTG 04)	06:24		06:33	05:49	05:27	
	16:49	66 14:20 (WTG 03)	17:26	28 08:14 (WTG 04)	18:00		19:34	20:06	20:33	
10	07:27	13:15 (WTG 03)	07:04	07:47 (WTG 04)	06:23	06:55 (WTG 05)	06:31	05:48	05:27	
	16:50	65 14:20 (WTG 03)	17:27	27 08:14 (WTG 04)	18:01	8 07:03 (WTG 05)	19:35	20:07	20:34	
11	07:27	13:16 (WTG 03)	07:03	07:46 (WTG 04)	06:21	06:52 (WTG 05)	06:29	05:47	05:27	
	16:51	65 14:21 (WTG 03)	17:29	27 08:13 (WTG 04)	18:02	13 07:05 (WTG 05)	19:36	20:08	20:34	
12	07:27	13:16 (WTG 03)	07:01	07:47 (WTG 04)	06:20	06:50 (WTG 05)	06:28	05:46	05:27	
	16:52	64 14:20 (WTG 03)	17:30	26 08:13 (WTG 04)	18:03	16 07:06 (WTG 05)	19:37	20:09	20:35	
13	07:26	13:18 (WTG 03)	07:00	07:48 (WTG 04)	06:18	06:50 (WTG 05)	06:26	05:45	05:27	
	16:53	62 14:20 (WTG 03)	17:31	24 08:12 (WTG 04)	18:04	17 07:07 (WTG 05)	19:38	20:10	20:35	
14	07:26	13:18 (WTG 03)	06:59	07:49 (WTG 04)	06:16	06:49 (WTG 05)	06:25	05:44	05:27	
	16:54	62 14:20 (WTG 03)	17:32	21 08:10 (WTG 04)	18:06	18 07:07 (WTG 05)	19:39	20:11	20:36	
15	07:26	13:20 (WTG 03)	06:57	07:50 (WTG 04)	06:15	06:48 (WTG 05)	06:23	05:43	05:27	
	16:55	60 14:20 (WTG 03)	17:34	19 08:09 (WTG 04)	18:07	18 07:06 (WTG 05)	19:40	20:12	20:36	
16	07:25	13:21 (WTG 03)	06:56	07:52 (WTG 04)	06:13	06:48 (WTG 05)	06:21	05:42	05:27	
	16:56	59 14:20 (WTG 03)	17:35	16 08:08 (WTG 04)	18:08	19 07:07 (WTG 05)	19:41	20:13	20:36	
17	07:25	13:22 (WTG 03)	06:55	07:55 (WTG 04)	06:11	06:48 (WTG 05)	06:20	05:41	05:27	
	16:58	57 14:19 (WTG 03)	17:36	10 08:05 (WTG 04)	18:09	18 07:06 (WTG 05)	19:43	20:14	20:37	
18	07:24	13:23 (WTG 03)	06:53	06:10	06:10	06:48 (WTG 05)	06:18	05:40	05:27	
	16:59	56 14:19 (WTG 03)	17:37		18:10	16 07:04 (WTG 05)	19:44	20:15	20:37	
19	07:24	13:25 (WTG 03)	06:52	06:08	06:08	06:49 (WTG 05)	06:17	05:39	05:27	
	17:00	54 14:19 (WTG 03)	17:39		18:11	15 07:04 (WTG 05)	19:45	20:16	20:38	
20	07:23	13:26 (WTG 03)	06:51	06:06	06:06	06:50 (WTG 05)	06:15	05:38	05:27	
	17:01	52 14:18 (WTG 03)	17:40		18:12	12 07:02 (WTG 05)	19:46	20:17	20:38	
21	07:22	13:27 (WTG 03)	06:49	06:04	06:04	06:53 (WTG 05)	06:14	05:37	05:27	
	17:02	50 14:17 (WTG 03)	17:41		18:13	5 06:58 (WTG 05)	19:47	20:18	20:38	
22	07:22	13:30 (WTG 03)	06:48	06:03	06:03		06:12	05:37	05:27	
	17:04	47 14:17 (WTG 03)	17:42		18:14		19:48	20:19	20:38	
23	07:21	13:31 (WTG 03)	06:46	06:01	06:01		06:11	05:36	05:28	
	17:05	45 14:16 (WTG 03)	17:43		18:15		19:49	20:20	20:38	
24	07:20	13:33 (WTG 03)	06:45	05:59	05:59		06:09	05:35	05:28	
	17:06	41 14:14 (WTG 03)	17:45		18:17		19:50	20:21	20:39	
25	07:20	13:35 (WTG 03)	06:43	05:58	05:58		06:08	05:34	05:28	
	17:07	37 14:12 (WTG 03)	17:46		18:18		19:51	20:22	20:39	
26	07:19	13:39 (WTG 03)	06:42	05:56	05:56		06:06	05:34	05:28	
	17:08	33 14:12 (WTG 03)	17:47		18:19		19:52	20:23	20:39	
27	07:18	07:55 (WTG 04)	06:40	05:54	05:54		06:05	05:33	05:29	
	17:10	34 14:09 (WTG 03)	17:48		18:20		19:53	20:24	20:39	
28	07:17	07:52 (WTG 04)	06:39	05:53	05:53		06:04	05:32	05:29	
	17:11	33 14:06 (WTG 03)	17:49		18:21		19:54	20:24	20:39	
29	07:16	07:50 (WTG 04)		06:51	06:51		06:02	05:32	05:30	
	17:12	22 13:59 (WTG 03)			19:22		19:56	20:25	20:39	
30	07:16	07:49 (WTG 04)		06:49	06:49		06:01	05:31	05:30	
	17:13	19 08:08 (WTG 04)			19:23		19:57	20:26	20:39	
31	07:15	07:48 (WTG 04)		06:48	06:48			05:31		
	17:15	22 08:10 (WTG 04)			19:24			20:27		
Ore potenziali eliofania	296		297	369	369		399	449	454	
Totale, caso peggiore	1655		412	175	175					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 47 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (362)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 19:36	06:26	06:57	07:29 (WTG 05) 06:32	07:15 (WTG 04) 07:07 12:58 (WTG 03)
2	05:31 20:39	05:56 19:34	06:27	06:58	16 07:45 (WTG 05) 06:57 16:57	28 07:43 (WTG 04) 06:32 07:16 (WTG 04) 07:08 12:58 (WTG 03)
3	05:32 20:38	05:57 19:32	06:28	06:59	14 07:44 (WTG 05) 06:56 06:59	28 07:44 (WTG 04) 06:32 07:16 (WTG 04) 07:09 12:58 (WTG 03)
4	05:32 20:38	05:58 19:31	06:29	07:00	10 07:42 (WTG 05) 06:55 07:36 (WTG 05) 06:35	28 07:44 (WTG 04) 06:32 07:15 (WTG 04) 07:10 12:58 (WTG 03)
5	05:33 20:38	05:59 19:29	06:30	07:01	1 18:39 07:01	28 07:43 (WTG 04) 06:32 07:15 (WTG 04) 07:11 12:58 (WTG 03)
6	05:33 20:38	06:00 19:27	06:31	07:02	18:38 07:02	28 07:43 (WTG 04) 06:31 06:38 07:16 (WTG 04) 07:12 12:58 (WTG 03)
7	05:34 20:37	06:01 19:26	06:32	07:03	18:36 07:03	28 07:44 (WTG 04) 06:31 06:39 07:16 (WTG 04) 07:13 12:58 (WTG 03)
8	05:35 20:37	06:02 19:24	06:33	07:04	18:34 07:04	27 07:43 (WTG 04) 06:31 06:40 07:17 (WTG 04) 07:14 14:05 (WTG 03)
9	05:35 20:37	06:03 19:22	06:34	07:05	18:33 07:05	25 07:42 (WTG 04) 06:31 06:41 07:18 (WTG 04) 07:15 14:07 (WTG 03)
10	05:36 20:36	06:04 19:21	06:35	07:06	18:31 07:06	25 07:43 (WTG 04) 06:31 06:42 07:19 (WTG 04) 07:16 12:59 (WTG 03)
11	05:37 20:36	06:05 19:19	06:36	07:07	18:30 07:07	23 07:42 (WTG 04) 06:31 06:44 07:19 (WTG 04) 07:16 12:58 (WTG 03)
12	05:37 20:35	06:06 19:17	06:37	07:09	18:28 07:09	22 07:41 (WTG 04) 06:31 06:45 07:20 (WTG 04) 07:17 12:59 (WTG 03)
13	05:38 20:35	06:07 19:15	06:38	07:10	18:26 07:10	19 07:39 (WTG 04) 06:31 06:46 07:22 (WTG 04) 07:18 14:09 (WTG 03)
14	05:39 20:34	06:08 19:14	06:39	07:11	18:25 07:11	24 13:32 (WTG 03) 06:31 06:47 07:24 (WTG 04) 07:19 14:10 (WTG 03)
15	05:40 20:34	06:09 19:12	06:40	07:12	18:23 07:12	33 13:38 (WTG 03) 06:32 06:48 07:27 (WTG 04) 07:20 12:59 (WTG 03)
16	05:40 20:33	06:10 19:10	06:41	07:13	18:22 07:13	34 13:41 (WTG 03) 06:32 06:50 13:12 (WTG 03) 07:20 13:00 (WTG 03)
17	05:41 20:33	06:11 19:09	06:42	07:14	18:20 07:14	33 13:45 (WTG 03) 06:32 06:51 13:09 (WTG 03) 07:21 13:01 (WTG 03)
18	05:42 20:32	06:12 19:07	06:43	07:15	18:18 07:15	38 13:47 (WTG 03) 06:32 06:52 13:07 (WTG 03) 07:22 13:00 (WTG 03)
19	05:43 20:31	06:13 19:05	06:44	07:16	18:17 07:16	41 13:48 (WTG 03) 06:33 06:53 13:05 (WTG 03) 07:22 13:01 (WTG 03)
20	05:44 20:30	06:14 19:03	06:45	07:17	18:15 07:17	45 13:50 (WTG 03) 06:33 06:54 13:05 (WTG 03) 07:23 13:02 (WTG 03)
21	05:45 20:30	06:15 19:02	06:46	07:19	18:14 07:19	47 13:52 (WTG 03) 06:34 06:56 13:03 (WTG 03) 07:23 13:02 (WTG 03)
22	05:45 20:29	06:16 19:00	06:47	07:20	18:12 07:20	50 13:53 (WTG 03) 06:34 06:57 13:02 (WTG 03) 07:24 13:03 (WTG 03)
23	05:46 20:28	06:17 18:58	06:48	07:21	18:11 07:21	52 13:54 (WTG 03) 06:34 06:58 13:01 (WTG 03) 07:24 13:03 (WTG 03)
24	05:47 20:27	06:18 18:57	06:49	07:22	18:09 07:22	54 13:55 (WTG 03) 06:35 06:59 13:01 (WTG 03) 07:25 13:03 (WTG 03)
25	05:48 20:26	06:19 18:55	06:50	07:23	18:08 07:23	56 13:57 (WTG 03) 06:36 07:00 13:00 (WTG 03) 07:25 13:04 (WTG 03)
26	05:49 20:25	06:20 18:53	06:51	07:24	18:07 07:24	57 13:57 (WTG 03) 06:36 07:01 12:59 (WTG 03) 07:26 13:05 (WTG 03)
27	05:50 20:24	06:21 18:51	06:53	07:25	18:06 07:25	59 13:58 (WTG 03) 06:37 07:03 12:59 (WTG 03) 07:26 13:05 (WTG 03)
28	05:51 20:24	06:22 18:50	06:54	07:26	18:05 07:26	60 13:59 (WTG 03) 06:37 07:04 12:58 (WTG 03) 07:26 13:06 (WTG 03)
29	05:52 20:23	06:23 18:48	06:55	07:27	18:04 07:27	62 14:00 (WTG 03) 06:38 07:05 12:58 (WTG 03) 07:27 13:06 (WTG 03)
30	05:53 20:21	06:24 18:46	06:56	07:29	18:03 07:29	62 14:00 (WTG 03) 06:39 07:06 12:58 (WTG 03) 07:27 13:07 (WTG 03)
31	05:54 20:20	06:25 18:46	06:57	07:30	18:02 07:30	64 14:02 (WTG 03) 06:40 07:07 14:02 (WTG 03) 07:27 13:07 (WTG 03)
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore			130	187	1180	2174

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 48 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (318)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo			Aprile	Maggio	Giugno
1	07:27	12:56 (WTG 03)	07:14	07:46 (WTG 04)	06:37		06:46	05:59	05:30	
	16:41	70 14:06 (WTG 03)	17:16	21 08:07 (WTG 04)	17:51		19:25	19:58	20:28	
2	07:28	12:56 (WTG 03)	07:13	07:45 (WTG 04)	06:36		06:44	05:58	05:30	
	16:42	70 14:06 (WTG 03)	17:17	23 08:08 (WTG 04)	17:52		19:26	19:59	20:28	
3	07:28	12:57 (WTG 03)	07:12	07:44 (WTG 04)	06:34		06:42	05:57	05:29	
	16:43	69 14:06 (WTG 03)	17:18	25 08:09 (WTG 04)	17:53		19:27	20:00	20:29	
4	07:28	12:58 (WTG 03)	07:11	07:44 (WTG 04)	06:33		06:41	05:56	05:29	
	16:44	68 14:06 (WTG 03)	17:20	26 08:10 (WTG 04)	17:54		19:28	20:01	20:30	
5	07:28	12:59 (WTG 03)	07:10	07:44 (WTG 04)	06:31		06:39	05:54	05:28	
	16:45	68 14:07 (WTG 03)	17:21	26 08:10 (WTG 04)	17:55		19:30	20:02	20:31	
6	07:28	13:00 (WTG 03)	07:08	07:43 (WTG 04)	06:29		06:38	05:53	05:28	
	16:46	67 14:07 (WTG 03)	17:22	27 08:10 (WTG 04)	17:56		19:31	20:03	20:31	
7	07:28	13:01 (WTG 03)	07:07	07:43 (WTG 04)	06:28		06:36	05:52	05:28	
	16:47	66 14:07 (WTG 03)	17:24	27 08:10 (WTG 04)	17:58		19:32	20:04	20:32	
8	07:27	13:02 (WTG 03)	07:06	07:43 (WTG 04)	06:26		06:34	05:51	05:28	
	16:48	65 14:07 (WTG 03)	17:25	28 08:11 (WTG 04)	17:59		19:33	20:05	20:32	
9	07:27	13:02 (WTG 03)	07:05	07:43 (WTG 04)	06:24		06:33	05:50	05:27	
	16:49	65 14:07 (WTG 03)	17:26	28 08:11 (WTG 04)	18:00		19:34	20:06	20:33	
10	07:27	13:03 (WTG 03)	07:04	07:44 (WTG 04)	06:23	06:54 (WTG 05)	06:31	05:48	05:27	
	16:50	64 14:07 (WTG 03)	17:27	27 08:11 (WTG 04)	18:01	7 07:01 (WTG 05)	19:35	20:07	20:34	
11	07:27	13:05 (WTG 03)	07:03	07:43 (WTG 04)	06:21	06:51 (WTG 05)	06:29	05:47	05:27	
	16:51	62 14:07 (WTG 03)	17:29	27 08:10 (WTG 04)	18:02	12 07:03 (WTG 05)	19:36	20:08	20:34	
12	07:27	13:05 (WTG 03)	07:01	07:44 (WTG 04)	06:20	06:49 (WTG 05)	06:28	05:46	05:27	
	16:52	61 14:06 (WTG 03)	17:30	26 08:10 (WTG 04)	18:03	15 07:04 (WTG 05)	19:37	20:09	20:35	
13	07:26	13:06 (WTG 03)	07:00	07:45 (WTG 04)	06:18	06:49 (WTG 05)	06:26	05:45	05:27	
	16:53	61 14:07 (WTG 03)	17:31	25 08:10 (WTG 04)	18:04	16 07:05 (WTG 05)	19:38	20:10	20:35	
14	07:26	13:07 (WTG 03)	06:59	07:45 (WTG 04)	06:16	06:48 (WTG 05)	06:25	05:44	05:27	
	16:54	59 14:06 (WTG 03)	17:32	23 08:08 (WTG 04)	18:06	17 07:05 (WTG 05)	19:39	20:11	20:36	
15	07:26	13:09 (WTG 03)	06:57	07:47 (WTG 04)	06:15	06:47 (WTG 05)	06:23	05:43	05:27	
	16:55	57 14:06 (WTG 03)	17:34	20 08:07 (WTG 04)	18:07	18 07:05 (WTG 05)	19:40	20:12	20:36	
16	07:25	13:11 (WTG 03)	06:56	07:48 (WTG 04)	06:13	06:47 (WTG 05)	06:21	05:42	05:27	
	16:56	55 14:06 (WTG 03)	17:35	18 08:06 (WTG 04)	18:08	18 07:05 (WTG 05)	19:41	20:13	20:36	
17	07:25	13:12 (WTG 03)	06:55	07:50 (WTG 04)	06:11	06:47 (WTG 05)	06:20	05:41	05:27	
	16:58	53 14:05 (WTG 03)	17:36	13 08:03 (WTG 04)	18:09	17 07:04 (WTG 05)	19:43	20:14	20:37	
18	07:24	13:13 (WTG 03)	06:53	07:54 (WTG 04)	06:10	06:47 (WTG 05)	06:18	05:40	05:27	
	16:59	51 14:04 (WTG 03)	17:37	6 08:00 (WTG 04)	18:10	16 07:03 (WTG 05)	19:44	20:15	20:37	
19	07:24	13:15 (WTG 03)	06:52		06:08	06:48 (WTG 05)	06:17	05:39	05:27	
	17:00	49 14:04 (WTG 03)	17:39		18:11	15 07:03 (WTG 05)	19:45	20:16	20:38	
20	07:23	13:16 (WTG 03)	06:51		06:06	06:49 (WTG 05)	06:15	05:38	05:27	
	17:01	47 14:03 (WTG 03)	17:40		18:12	11 07:00 (WTG 05)	19:46	20:17	20:38	
21	07:22	13:18 (WTG 03)	06:49		06:04	06:52 (WTG 05)	06:14	05:37	05:27	
	17:02	43 14:01 (WTG 03)	17:41		18:13	4 06:56 (WTG 05)	19:47	20:18	20:38	
22	07:22	13:21 (WTG 03)	06:48		06:03		06:12	05:37	05:27	
	17:04	40 14:01 (WTG 03)	17:42		18:14		19:48	20:19	20:38	
23	07:21	13:23 (WTG 03)	06:46		06:01		06:11	05:36	05:28	
	17:05	36 13:59 (WTG 03)	17:43		18:15		19:49	20:20	20:38	
24	07:20	13:26 (WTG 03)	06:45		05:59		06:09	05:35	05:28	
	17:06	31 13:57 (WTG 03)	17:45		18:17		19:50	20:21	20:39	
25	07:20	13:29 (WTG 03)	06:43		05:58		06:08	05:34	05:28	
	17:07	25 13:54 (WTG 03)	17:46		18:18		19:51	20:22	20:39	
26	07:19	13:35 (WTG 03)	06:42		05:56		06:06	05:34	05:28	
	17:08	16 13:51 (WTG 03)	17:47		18:19		19:52	20:23	20:39	
27	07:18		06:40		05:54		06:05	05:33	05:29	
	17:10		17:48		18:20		19:53	20:24	20:39	
28	07:17	07:54 (WTG 04)	06:39		05:53		06:04	05:32	05:29	
	17:11	3 07:57 (WTG 04)	17:49		18:21		19:54	20:24	20:39	
29	07:16	07:50 (WTG 04)			06:51		06:02	05:32	05:30	
	17:12	11 08:01 (WTG 04)			19:22		19:56	20:25	20:39	
30	07:16	07:48 (WTG 04)			06:49		06:01	05:31	05:30	
	17:13	16 08:04 (WTG 04)			19:23		19:57	20:26	20:39	
31	07:15	07:47 (WTG 04)			06:48			05:31		
	17:15	18 08:05 (WTG 04)			19:24			20:27		
Ore potenziali eliofania	296		297		369		399	449	454	
Totale, caso peggiore	1466		416		166					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 48 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (318)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 18:05	07:01 16:34	07:26 16:37
27	05:50 20:24	06:21 19:44	06:53 18:51	07:25 18:04	07:03 16:34	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 18:02	07:04 16:34	07:26 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 18:01	07:05 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:40
31	05:54 20:20	06:25 19:37		06:30 16:59	07:13 16:40	07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore			128	202	985	2153

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 49 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (363)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno		
1	07:27	08:17 (WTG 06)	07:14	06:37	06:56 (WTG 04)	06:46	18:08 (WTG 03)	05:59	18:17 (WTG 03)	05:30		
	16:41	08:40 (WTG 06)	17:16	17:51	07:18 (WTG 04)	19:25	19:03 (WTG 03)	19:58	32	18:49 (WTG 03)	20:28	
2	07:28	08:18 (WTG 06)	07:13	06:36	06:55 (WTG 04)	06:44	07:03 (7)	05:58		18:19 (WTG 03)	05:30	
	16:42	08:40 (WTG 06)	17:17	17:52	07:21 (WTG 04)	19:26	58	19:05 (WTG 03)	19:59	28	18:47 (WTG 03)	20:28
3	07:28	08:19 (WTG 06)	07:12	06:34	06:53 (WTG 04)	06:42	07:01 (7)	05:57		18:21 (WTG 03)	05:29	
	16:43	08:40 (WTG 06)	17:18	17:53	07:22 (WTG 04)	19:27	60	19:06 (WTG 03)	20:00	23	18:44 (WTG 03)	20:29
4	07:28	08:20 (WTG 06)	07:11	06:33	06:52 (WTG 04)	06:41	07:07 (WTG 05)	05:56		18:25 (WTG 03)	05:29	
	16:44	08:40 (WTG 06)	17:20	17:54	07:24 (WTG 04)	19:28	63	19:07 (WTG 03)	20:01	15	18:40 (WTG 03)	20:30
5	07:28	08:21 (WTG 06)	07:10	06:31	06:50 (WTG 04)	06:39	07:02 (WTG 05)	05:54			05:28	
	16:45	08:40 (WTG 06)	17:21	17:55	07:24 (WTG 04)	19:30	74	19:08 (WTG 03)	20:02		20:31	
6	07:28	08:22 (WTG 06)	07:08	06:29	06:48 (WTG 04)	06:37	06:59 (WTG 05)	05:53			05:28	
	16:46	08:40 (WTG 06)	17:22	17:56	07:25 (WTG 04)	19:31	80	19:09 (WTG 03)	20:03		20:31	
7	07:28	08:23 (WTG 06)	07:07	06:28	06:47 (WTG 04)	06:36	06:57 (WTG 05)	05:52			05:28	
	16:47	08:40 (WTG 06)	17:24	17:58	07:26 (WTG 04)	19:32	85	19:10 (WTG 03)	20:04		20:32	
8	07:27	08:24 (WTG 06)	07:06	06:26	06:46 (WTG 04)	06:34	06:57 (WTG 05)	05:51			05:28	
	16:48	08:39 (WTG 06)	17:25	17:59	07:26 (WTG 04)	19:33	87	19:11 (WTG 03)	20:05		20:32	
9	07:27	08:25 (WTG 06)	07:05	06:24	06:45 (WTG 04)	06:33	06:55 (WTG 05)	05:49			05:27	
	16:49	08:38 (WTG 06)	17:26	18:00	07:26 (WTG 04)	19:34	89	19:10 (WTG 03)	20:06		20:33	
10	07:27	08:27 (WTG 06)	07:04	06:23	06:45 (WTG 04)	06:31	06:55 (WTG 05)	05:48			05:27	
	16:50	08:38 (WTG 06)	17:27	18:01	07:27 (WTG 04)	19:35	90	19:11 (WTG 03)	20:07		20:34	
11	07:27	08:30 (WTG 06)	07:03	06:21	06:44 (WTG 04)	06:29	06:54 (WTG 05)	05:47			05:27	
	16:51	6	08:36 (WTG 06)	17:29	18:02	07:27 (WTG 04)	19:36	90	19:10 (WTG 03)	20:08	20:34	
12	07:27		07:01	06:20	06:43 (WTG 04)	06:28	06:53 (WTG 05)	05:46			05:27	
	16:52		17:30	18:03	07:26 (WTG 04)	19:37	89	19:09 (WTG 03)	20:09		20:35	
13	07:26		07:00	06:18	06:43 (WTG 04)	06:26	06:54 (WTG 05)	05:45			05:27	
	16:53		17:31	18:04	07:27 (WTG 04)	19:38	89	19:09 (WTG 03)	20:10		20:35	
14	07:26		06:59	06:16	06:43 (WTG 04)	06:25	06:54 (WTG 05)	05:44			05:27	
	16:54		17:32	18:05	07:26 (WTG 04)	19:39	86	19:08 (WTG 03)	20:11		20:36	
15	07:26		06:57	06:15	06:42 (WTG 04)	06:23	06:54 (WTG 05)	05:43			05:27	
	16:55		17:34	18:07	07:25 (WTG 04)	19:40	86	19:08 (WTG 03)	20:12		20:36	
16	07:25		06:56	06:13	06:43 (WTG 04)	06:21	06:55 (WTG 05)	05:42			05:27	
	16:56		17:35	18:08	07:25 (WTG 04)	19:41	83	19:07 (WTG 03)	20:13		20:36	
17	07:25		06:55	06:11	06:43 (WTG 04)	06:20	06:56 (WTG 05)	05:41			05:27	
	16:58		17:36	18:09	07:24 (WTG 04)	19:43	80	19:07 (WTG 03)	20:14		20:37	
18	07:24		06:53	06:09	06:43 (WTG 04)	06:18	06:57 (WTG 05)	05:40			05:27	
	16:59		17:37	18:10	07:23 (WTG 04)	19:44	75	19:06 (WTG 03)	20:15		20:37	
19	07:24		06:52	06:08	06:44 (WTG 04)	06:17	07:00 (WTG 05)	05:39			05:27	
	17:00		17:39	18:11	07:23 (WTG 04)	19:45	69	19:06 (WTG 03)	20:16		20:37	
20	07:23		06:51	06:06	06:44 (WTG 04)	06:15	18:05 (WTG 03)	05:38			05:27	
	17:01		17:40	18:12	17:51 (WTG 03)	19:46	59	19:04 (WTG 03)	20:17		20:38	
21	07:22		06:49	06:04	06:45 (WTG 04)	06:14	18:06 (WTG 03)	05:37			05:27	
	17:02		17:41	18:13	17:52 (WTG 03)	19:47	58	19:04 (WTG 03)	20:18		20:38	
22	07:22		06:48	06:03	06:45 (WTG 04)	06:12	18:06 (WTG 03)	05:37			05:27	
	17:04		17:42	18:14	17:53 (WTG 03)	19:48	56	19:02 (WTG 03)	20:19		20:38	
23	07:21		06:46	06:01	06:47 (WTG 04)	06:11	18:07 (WTG 03)	05:36			05:28	
	17:05		17:43	18:15	17:55 (WTG 03)	19:49	55	19:02 (WTG 03)	20:20		20:38	
24	07:20		06:45	05:59	06:48 (WTG 04)	06:09	18:07 (WTG 03)	05:35			05:28	
	17:06		17:45	18:17	17:55 (WTG 03)	19:50	53	19:00 (WTG 03)	20:21		20:39	
25	07:20		06:43	05:58	06:50 (WTG 04)	06:08	18:08 (WTG 03)	05:34			05:28	
	17:07		17:46	18:18	17:56 (WTG 03)	19:51	51	18:59 (WTG 03)	20:22		20:39	
26	07:19		06:42	05:56	06:54 (WTG 04)	06:06	18:10 (WTG 03)	05:34			05:28	
	17:08		17:47	18:19	17:58 (WTG 03)	19:52	48	18:58 (WTG 03)	20:23		20:39	
27	07:18		06:40	05:54	17:15 (WTG 03)	06:05	18:10 (WTG 03)	05:33			05:29	
	17:10		17:48	18:20	17:59 (WTG 03)	19:53	46	18:56 (WTG 03)	20:24		20:39	
28	07:17		06:39	05:53	17:13 (WTG 03)	06:04	18:12 (WTG 03)	05:32			05:29	
	17:11		17:49	18:21	17:59 (WTG 03)	19:54	43	18:55 (WTG 03)	20:24		20:39	
29	07:16			06:51	18:11 (WTG 03)	06:02	18:13 (WTG 03)	05:32			05:30	
	17:12			19:22	19:00 (WTG 03)	19:56	40	18:53 (WTG 03)	20:25		20:39	
30	07:16			06:49	18:11 (WTG 03)	06:01	18:15 (WTG 03)	05:31			05:30	
	17:13			19:23	19:02 (WTG 03)	19:57	36	18:51 (WTG 03)	20:26		20:39	
31	07:15			06:48	18:09 (WTG 03)			05:31				
	17:15			19:24	19:03 (WTG 03)			20:27				
Ore potenziali eliofanìa	296			369		399		449			454	
Totale, caso peggiore	185		15		1371		2033		98			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 49 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (363)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31 20:39	05:55 20:18	06:26 19:36	06:53 (WTG 05) 19:09 (WTG 03)	06:57 18:45	07:23 (WTG 04) 06:32 07:07	
2	05:31 20:39	05:56 20:18	06:27 19:34	06:53 (WTG 05) 19:09 (WTG 03)	06:58 18:43	08:06 (WTG 04) 06:33 07:08	
3	05:32 20:38	05:57 20:17	06:28 19:32	06:53 (WTG 05) 19:08 (WTG 03)	06:59 18:41	07:22 (WTG 04) 06:34 07:09	
4	05:32 20:38	05:58 20:16	06:29 19:31	06:54 (WTG 05) 19:08 (WTG 03)	07:00 18:39	07:22 (WTG 04) 06:35 07:10	
5	05:33 20:38	05:59 20:15	06:30 19:29	06:54 (WTG 05) 19:07 (WTG 03)	07:01 18:38	07:22 (WTG 04) 06:36 07:11	
6	05:33 20:38	06:00 20:14	06:31 19:27	06:55 (WTG 05) 19:05 (WTG 03)	07:02 18:36	07:22 (WTG 04) 06:38 07:12	
7	05:34 20:37	06:01 20:12	06:32 19:26	06:57 (WTG 05) 19:03 (WTG 03)	07:03 18:34	07:23 (WTG 04) 06:39 07:13	
8	05:34 20:37	06:02 20:11	06:33 19:24	07:01 (WTG 05) 19:02 (WTG 03)	07:04 18:33	07:24 (WTG 04) 06:40 07:14	
9	05:35 20:37	06:03 20:10	18:41 (WTG 03) 18:44 (WTG 03)	06:34 19:22	06:55 (7) 19:00 (WTG 03)	07:05 18:31	07:26 (WTG 04) 06:41 07:15
10	05:36 20:36	06:04 20:09	18:51 (WTG 03) 18:30 (WTG 03)	19:22 06:35	06:56 (7) 18:30	07:06 07:27 (WTG 04)	06:42 07:16
11	05:37 20:36	06:05 20:07	18:54 (WTG 03) 18:27 (WTG 03)	19:21 06:36	06:57 (7) 18:28	07:07 07:28 (WTG 04)	06:44 07:16
12	05:37 20:35	06:06 20:06	18:57 (WTG 03) 18:25 (WTG 03)	19:19 06:37	06:58 (WTG 03) 18:26	07:08 07:29 (WTG 04)	06:45 07:17
13	05:38 20:35	06:07 20:05	18:59 (WTG 03) 18:23 (WTG 03)	19:17 06:38	06:59 (7) 18:25	07:09 07:31 (WTG 04)	06:46 07:18
14	05:39 20:34	06:08 20:03	19:00 (WTG 03) 18:21 (WTG 03)	19:15 06:39	18:53 (WTG 03) 18:02 (WTG 03)	18:25 07:11	16:44 06:47
15	05:40 20:34	06:09 20:02	19:02 (WTG 03) 18:19 (WTG 03)	19:14 06:40	18:52 (WTG 03) 18:03 (WTG 03)	18:23 07:12	16:43 06:48
16	05:40 20:33	06:10 20:00	19:03 (WTG 03) 18:18 (WTG 03)	19:12 06:41	18:50 (WTG 03) 18:04 (WTG 03)	18:22 07:13	16:42 06:50
17	05:41 20:33	06:11 19:59	19:04 (WTG 03) 18:15 (WTG 03)	19:10 06:42	18:48 (WTG 03) 07:43 (WTG 04)	18:20 07:14	16:41 06:51
18	05:42 20:32	06:12 19:57	19:04 (WTG 03) 18:14 (WTG 03)	19:09 06:43	18:47 (WTG 03) 07:39 (WTG 04)	18:18 07:15	16:40 06:52
19	05:43 20:31	06:13 19:56	19:05 (WTG 03) 18:13 (WTG 03)	19:07 06:44	18:45 (WTG 03) 07:36 (WTG 04)	18:17 07:16	16:40 06:53
20	05:44 20:30	06:14 19:54	19:06 (WTG 03) 18:12 (WTG 03)	19:05 06:45	18:43 (WTG 03) 07:34 (WTG 04)	18:15 07:17	16:39 06:54
21	05:45 20:30	06:15 19:53	19:07 (WTG 03) 18:10 (WTG 03)	19:03 06:46	18:41 (WTG 03) 07:32 (WTG 04)	18:14 07:19	16:38 06:56
22	05:45 20:29	06:16 19:51	19:07 (WTG 03) 18:09 (WTG 03)	19:02 06:47	18:40 (WTG 03) 07:30 (WTG 04)	18:12 07:20	16:37 06:57
23	05:46 20:28	06:17 19:50	19:08 (WTG 03) 18:08 (WTG 03)	19:00 06:48	18:38 (WTG 03) 07:29 (WTG 04)	18:11 07:21	16:37 06:58
24	05:47 20:27	06:18 19:48	19:08 (WTG 03) 18:08 (WTG 03)	18:58 06:49	18:36 (WTG 03) 07:28 (WTG 04)	18:09 07:22	16:36 06:59
25	05:48 20:26	06:19 19:47	19:09 (WTG 03) 18:06 (WTG 03)	18:56 06:50	18:31 (WTG 03) 07:27 (WTG 04)	18:08 06:23	16:36 07:00
26	05:49 20:25	06:20 19:45	19:09 (WTG 03) 18:05 (WTG 03)	18:55 06:51	18:06 (WTG 04) 07:26 (WTG 04)	17:07 06:24	16:35 07:01
27	05:50 20:24	06:21 19:44	19:09 (WTG 03) 18:05 (WTG 03)	18:53 06:52	08:06 (WTG 04) 07:25 (WTG 04)	17:05 06:26	16:34 07:02
28	05:51 20:23	06:22 19:42	19:09 (WTG 03) 18:04 (WTG 03)	18:51 06:53	08:06 (WTG 04) 07:24 (WTG 04)	17:04 06:27	16:34 07:03
29	05:52 20:22	06:23 19:41	19:09 (WTG 03) 18:03 (WTG 03)	18:50 06:54	08:06 (WTG 04) 07:23 (WTG 04)	17:02 06:28	16:34 07:05
30	05:53 20:21	06:24 19:39	19:09 (WTG 03) 18:02 (WTG 03)	18:48 06:55	08:06 (WTG 04) 07:23 (WTG 04)	17:01 06:29	16:33 07:06
31	05:54 20:20	06:25 19:37	19:09 (WTG 03) 18:46	06:53 (WTG 05) 19:09 (WTG 03)	08:06 (WTG 04) 07:00	17:00 06:30	16:33 07:07
Ore potenziali eliofanìa	460	429	375	345	297	287	
Totale, caso peggiore		1320	1780	470		664	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 50 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (364)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:59 (WTG 04) 19:25	18:24 (WTG 03) 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:57 (WTG 04) 19:26	18:23 (WTG 03) 19:59	05:30 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	06:55 (WTG 04) 19:27	07:01 (7) 19:06 (WTG 03)	05:29 20:00
4	07:28 16:44	07:11 17:20	06:32 17:54	06:54 (WTG 04) 19:28	06:59 (7) 19:07 (WTG 03)	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	06:53 (WTG 04) 19:30	06:58 (7) 19:08 (WTG 03)	05:28 20:31
6	07:28 16:46	07:08 17:22	06:29 17:56	06:51 (WTG 04) 19:31	18:20 (WTG 03) 19:09 (WTG 03)	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:51 (WTG 04) 19:32	07:02 (WTG 05) 19:10 (WTG 03)	05:28 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59	06:49 (WTG 04) 19:33	06:59 (WTG 05) 19:11 (WTG 03)	05:28 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00	06:48 (WTG 04) 19:34	06:56 (WTG 05) 19:12 (WTG 03)	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	06:48 (WTG 04) 19:35	06:55 (WTG 05) 19:13 (WTG 03)	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	06:47 (WTG 04) 19:36	06:53 (WTG 05) 19:12 (WTG 03)	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	06:46 (WTG 04) 19:37	06:52 (WTG 05) 19:11 (WTG 03)	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	06:47 (WTG 04) 19:38	06:52 (WTG 05) 19:11 (WTG 03)	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:05	06:46 (WTG 04) 19:39	06:51 (WTG 05) 19:10 (WTG 03)	05:27 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	06:45 (WTG 04) 19:40	06:51 (WTG 05) 19:09 (WTG 03)	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	06:46 (WTG 04) 19:41	06:50 (WTG 05) 19:08 (WTG 03)	05:27 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	06:45 (WTG 04) 19:43	06:51 (WTG 05) 19:08 (WTG 03)	05:27 20:37
18	07:24 16:59	06:53 17:37	06:09 18:10	06:45 (WTG 04) 19:44	06:50 (WTG 05) 19:06 (WTG 03)	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:45 (WTG 04) 19:45	06:51 (WTG 05) 19:06 (WTG 03)	05:27 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	06:46 (WTG 04) 19:46	06:51 (WTG 05) 19:04 (WTG 03)	05:27 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	06:46 (WTG 04) 19:47	06:52 (WTG 05) 19:03 (WTG 03)	05:27 20:38
22	07:22 17:03	06:48 17:42	06:03 18:14	06:46 (WTG 04) 19:48	06:53 (WTG 05) 19:01 (WTG 03)	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:47 (WTG 04) 19:49	06:55 (WTG 05) 19:00 (WTG 03)	05:28 20:38
24	07:20 17:06	06:45 17:44	05:59 18:17	06:48 (WTG 04) 19:50	06:57 (WTG 05) 18:57 (WTG 03)	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:48 (WTG 04) 19:51	06:58 (WTG 05) 18:30 (WTG 03)	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:50 (WTG 04) 19:52	18:33 (WTG 03) 18:52 (WTG 03)	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:51 (WTG 04) 19:53	18:37 (WTG 03) 18:47 (WTG 03)	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:53 (WTG 04) 19:54	06:04 17:59 (WTG 03)	05:32 20:39
29	07:16 17:12		06:51 19:22	07:55 (WTG 04) 19:55	06:02 19:00 (WTG 03)	05:30 20:39
30	07:16 17:13		06:49 19:23	07:59 (WTG 04) 19:57	06:01 19:02 (WTG 03)	05:31 20:39
31	07:15 17:15		06:48 19:24	18:25 (WTG 03) 19:03 (WTG 03)		05:31 20:27
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		59	1514	1502		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 50 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (364)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:52 (WTG 05) 19:11 (WTG 03)	06:57 18:45	07:26 (WTG 04) 16:57
2	05:32 20:39	05:56 20:18	06:27 19:34	06:53 (WTG 05) 19:11 (WTG 03)	06:58 18:43	07:26 (WTG 04) 16:56
3	05:32 20:38	05:57 20:17	06:28 19:32	06:54 (WTG 05) 19:10 (WTG 03)	06:59 18:41	07:26 (WTG 04) 16:55
4	05:32 20:38	05:58 20:16	06:29 19:31	06:56 (WTG 05) 19:08 (WTG 03)	07:00 18:39	07:26 (WTG 04) 16:54
5	05:33 20:38	05:59 20:15	06:30 19:29	06:59 (WTG 05) 19:07 (WTG 03)	07:01 18:38	07:26 (WTG 04) 16:52
6	05:33 20:38	06:00 20:14	06:31 19:27	06:31 19:05 (WTG 03)	07:02 18:36	07:26 (WTG 04) 16:51
7	05:34 20:37	06:01 20:12	06:32 19:26	06:32 19:03 (WTG 03)	07:03 18:34	07:26 (WTG 04) 16:50
8	05:34 20:37	06:02 20:11	06:33 19:24	06:33 19:02 (WTG 03)	07:04 18:33	07:27 (WTG 04) 16:49
9	05:35 20:37	06:03 20:10	06:34 19:22	06:34 19:00 (WTG 03)	07:05 18:31	07:28 (WTG 04) 16:48
10	05:36 20:36	06:04 20:09	06:35 19:21	06:35 18:58 (WTG 03)	07:06 18:30	07:29 (WTG 04) 16:47
11	05:37 20:36	06:05 20:07	06:36 19:19	06:36 18:57 (WTG 03)	07:07 18:28	07:30 (WTG 04) 16:46
12	05:37 20:35	06:06 20:06	06:37 19:17	06:37 18:55 (WTG 03)	07:08 18:26	07:32 (WTG 04) 16:45
13	05:38 20:35	06:07 20:04	06:38 19:15	06:38 18:53 (WTG 03)	07:10 18:25	07:33 (WTG 04) 16:44
14	05:39 20:34	06:08 20:03	06:39 19:14	06:39 18:52 (WTG 03)	07:11 18:23	07:35 (WTG 04) 16:43
15	05:40 20:34	06:09 20:02	06:40 19:12	06:40 18:50 (WTG 03)	07:12 18:22	07:38 (WTG 04) 16:42
16	05:40 20:33	06:10 20:00	06:41 19:10	06:41 18:48 (WTG 03)	07:13 18:20	07:46 (WTG 04) 16:41
17	05:41 20:33	06:11 19:59	06:42 19:09	06:42 18:47 (WTG 03)	07:14 18:18	06:51 16:40
18	05:42 20:32	06:12 19:57	06:43 19:07	06:43 18:35 (WTG 03)	07:15 18:17	06:52 16:39
19	05:43 20:31	06:13 19:56	06:44 19:05	06:44 18:45 (WTG 03)	07:16 18:15	06:53 16:38
20	05:44 20:30	06:14 19:54	06:45 19:03	06:45 18:43 (WTG 03)	07:17 18:14	06:54 16:37
21	05:45 20:30	06:15 19:53	06:46 19:02	06:46 18:41 (WTG 03)	07:19 18:12	06:56 16:36
22	05:45 20:29	06:16 19:51	06:47 19:00	06:47 18:39 (WTG 03)	07:20 18:11	06:57 16:35
23	05:46 20:28	06:17 19:50	06:48 18:58	06:48 18:37 (WTG 03)	07:21 18:09	06:58 16:34
24	05:47 20:27	06:18 19:48	06:49 18:56	06:49 18:35 (WTG 03)	07:22 18:08	06:59 16:33
25	05:48 20:26	06:19 19:47	06:50 18:55	06:50 18:33 (WTG 03)	07:23 18:07	07:00 16:32
26	05:49 20:25	06:20 19:45	06:51 18:53	06:51 18:31 (WTG 03)	07:24 18:05	07:01 16:31
27	05:50 20:24	06:21 19:44	06:52 18:51	06:52 18:29 (WTG 03)	07:25 18:04	07:02 16:30
28	05:51 20:23	06:22 19:42	06:53 18:50	06:53 18:27 (WTG 03)	07:26 18:03	07:03 16:29
29	05:52 20:22	06:23 19:41	06:54 18:48	06:54 18:25 (WTG 03)	07:27 18:02	07:04 16:28
30	05:53 20:21	06:24 19:39	06:55 18:46	06:55 18:23 (WTG 03)	07:28 18:01	07:05 16:27
31	05:54 20:20	06:25 19:37	06:56 18:44	06:56 18:21 (WTG 03)	07:29 17:00	07:06 16:26
Ore potenziali eliofanía	460	429	375	345	297	287
Totale, caso peggiore		904	1603	615		193

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 51 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (365)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:59 (WTG 04) 07:33 (WTG 04)	06:46 19:25	18:26 (WTG 03) 19:58
2	07:28 16:42	07:13 17:17	06:36 17:52	06:58 (WTG 04) 07:35 (WTG 04)	19:25 19:26	18:25 (WTG 03) 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	06:56 (WTG 04) 07:36 (WTG 04)	06:42 19:27	18:24 (WTG 03) 20:00
4	07:28 16:44	07:11 17:20	06:32 17:54	06:55 (WTG 04) 07:38 (WTG 04)	06:41 19:28	06:59 (7) 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	06:53 (WTG 04) 07:38 (WTG 04)	06:39 19:30	06:58 (7) 20:02
6	07:28 16:46	07:08 17:22	06:29 17:56	06:52 (WTG 04) 07:39 (WTG 04)	06:37 19:31	06:56 (7) 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58	06:51 (WTG 04) 07:40 (WTG 04)	06:36 19:32	18:22 (WTG 03) 19:10 (WTG 03)
8	07:27 16:48	07:06 17:25	06:26 17:59	06:50 (WTG 04) 07:40 (WTG 04)	06:34 19:33	07:00 (WTG 05) 19:11 (WTG 03)
9	07:27 16:49	07:05 17:26	06:24 18:00	06:49 (WTG 04) 07:40 (WTG 04)	06:33 19:34	06:57 (WTG 05) 19:12 (WTG 03)
10	07:27 16:50	07:04 17:27	06:23 18:01	06:49 (WTG 04) 07:41 (WTG 04)	06:31 19:35	06:55 (WTG 05) 19:13 (WTG 03)
11	07:27 16:51	07:03 17:29	06:21 18:02	06:48 (WTG 04) 07:40 (WTG 04)	06:29 19:36	06:53 (WTG 05) 19:12 (WTG 03)
12	07:27 16:52	07:01 17:30	06:20 18:03	06:47 (WTG 04) 07:40 (WTG 04)	06:28 19:37	06:52 (WTG 05) 19:11 (WTG 03)
13	07:26 16:53	07:00 17:31	06:18 18:04	06:47 (WTG 04) 07:40 (WTG 04)	06:26 19:38	06:52 (WTG 05) 19:11 (WTG 03)
14	07:26 16:54	06:59 17:32	06:16 18:05	06:46 (WTG 04) 07:40 (WTG 04)	06:24 19:39	06:50 (WTG 05) 19:10 (WTG 03)
15	07:26 16:55	06:57 17:34	06:15 18:07	06:46 (WTG 04) 07:39 (WTG 04)	06:23 19:40	06:50 (WTG 05) 19:10 (WTG 03)
16	07:25 16:56	06:56 17:35	06:13 18:08	06:46 (WTG 04) 07:39 (WTG 04)	06:21 19:41	06:50 (WTG 05) 19:08 (WTG 03)
17	07:25 16:58	06:55 17:36	06:11 18:09	06:46 (WTG 04) 07:39 (WTG 04)	06:20 19:43	06:50 (WTG 05) 19:08 (WTG 03)
18	07:24 16:59	06:53 17:37	06:09 18:10	06:46 (WTG 04) 07:38 (WTG 04)	06:18 19:44	06:49 (WTG 05) 19:06 (WTG 03)
19	07:24 17:00	06:52 17:39	06:08 18:11	06:45 (WTG 04) 07:37 (WTG 04)	06:17 19:45	06:50 (WTG 05) 19:05 (WTG 03)
20	07:23 17:01	06:51 17:40	06:06 18:12	06:46 (WTG 04) 07:36 (WTG 04)	06:15 19:46	06:50 (WTG 05) 19:03 (WTG 03)
21	07:22 17:02	06:49 17:41	06:04 18:13	06:46 (WTG 04) 07:35 (WTG 04)	06:14 19:47	06:51 (WTG 05) 19:02 (WTG 03)
22	07:22 17:03	06:48 17:42	06:03 18:14	06:46 (WTG 04) 07:34 (WTG 04)	06:12 19:48	06:51 (WTG 05) 19:00 (WTG 03)
23	07:21 17:05	06:46 17:43	06:01 18:15	06:48 (WTG 04) 17:55 (WTG 03)	06:11 19:49	06:53 (WTG 05) 18:59 (WTG 03)
24	07:20 17:06	06:45 17:45	05:59 18:17	06:48 (WTG 04) 17:55 (WTG 03)	06:09 19:50	06:54 (WTG 05) 18:56 (WTG 03)
25	07:20 17:07	06:43 17:46	05:58 18:18	06:48 (WTG 04) 17:56 (WTG 03)	06:08 19:51	06:54 (WTG 05) 18:53 (WTG 03)
26	07:19 17:08	06:42 17:47	05:56 07:08 (WTG 04)	06:50 (WTG 04) 17:58 (WTG 03)	06:06 19:52	18:38 (WTG 03) 18:48 (WTG 03)
27	07:18 17:10	06:40 17:48	05:54 07:04 (WTG 04)	06:51 (WTG 04) 17:59 (WTG 03)	06:05 19:53	05:33 20:24
28	07:17 17:11	06:39 17:49	05:53 07:02 (WTG 04)	06:52 (WTG 04) 17:59 (WTG 03)	06:04 19:54	05:32 20:24
29	07:16 17:12		05:51 19:22	07:54 (WTG 04) 19:00 (WTG 03)	06:02 19:55	05:32 20:25
30	07:16 17:13		05:49 19:23	07:57 (WTG 04) 19:02 (WTG 03)	06:01 19:57	05:31 20:26
31	07:15 17:15		05:48 19:24	08:01 (WTG 04) 19:03 (WTG 03)		05:31 20:27
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		70	1583	1423		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 51 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (365)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:52 (WTG 05) 19:11 (WTG 03)	06:57 18:45	07:26 (WTG 04) 16:57
2	05:31 20:39	05:56 20:18	06:27 19:34	06:53 (WTG 05) 19:11 (WTG 03)	06:58 18:43	07:26 (WTG 04) 16:56
3	05:32 20:38	05:57 20:17	06:28 19:32	06:55 (WTG 05) 19:10 (WTG 03)	06:59 18:41	07:26 (WTG 04) 16:55
4	05:32 20:38	05:58 20:16	06:29 19:31	06:57 (WTG 05) 19:08 (WTG 03)	07:00 18:39	07:26 (WTG 04) 16:54
5	05:33 20:38	05:59 20:15	06:30 19:29	18:19 (WTG 03) 19:07 (WTG 03)	07:01 18:38	07:26 (WTG 04) 16:52
6	05:33 20:38	06:00 20:14	06:31 19:27	18:18 (WTG 03) 19:05 (WTG 03)	07:02 18:36	07:27 (WTG 04) 16:51
7	05:34 20:37	06:01 20:12	06:32 19:26	06:53 (7) 19:03 (WTG 03)	07:03 18:34	07:27 (WTG 04) 16:50
8	05:34 20:37	06:02 20:11	06:33 19:24	06:54 (7) 19:02 (WTG 03)	07:04 18:33	07:27 (WTG 04) 16:49
9	05:35 20:37	06:03 20:10	06:34 19:22	06:55 (7) 19:00 (WTG 03)	07:05 18:31	07:29 (WTG 04) 16:48
10	05:36 20:36	06:04 20:09	06:35 19:21	18:18 (WTG 03) 18:58 (WTG 03)	07:06 18:30	07:30 (WTG 04) 16:47
11	05:37 20:36	06:05 20:07	06:36 19:19	18:19 (WTG 03) 18:57 (WTG 03)	07:07 18:28	07:31 (WTG 04) 16:46
12	05:37 20:35	06:06 20:06	06:37 19:17	07:54 (WTG 04) 18:55 (WTG 03)	07:08 18:26	07:32 (WTG 04) 16:45
13	05:38 20:35	06:07 20:04	06:38 19:15	07:49 (WTG 04) 18:53 (WTG 03)	07:10 18:25	07:33 (WTG 04) 16:44
14	05:39 20:34	06:08 20:03	06:39 19:14	07:46 (WTG 04) 18:52 (WTG 03)	07:11 18:23	07:35 (WTG 04) 16:43
15	05:40 20:34	06:09 20:02	06:40 19:12	07:43 (WTG 04) 18:50 (WTG 03)	07:12 18:22	07:38 (WTG 04) 16:42
16	05:40 20:33	06:10 20:00	06:41 19:10	07:41 (WTG 04) 18:48 (WTG 03)	07:13 18:20	07:43 (WTG 04) 16:41
17	05:41 20:33	06:11 19:59	06:42 18:44 (WTG 03)	07:39 (WTG 04) 18:47 (WTG 03)	07:14 18:18	06:51 16:40
18	05:42 20:32	06:12 19:57	06:43 07:03 (WTG 05)	07:37 (WTG 04) 18:45 (WTG 03)	07:15 18:17	06:52 16:40
19	05:43 20:31	06:13 19:56	06:44 19:02 (WTG 03)	07:36 (WTG 04) 18:43 (WTG 03)	07:16 18:15	06:53 16:39
20	05:44 20:30	06:14 19:54	06:45 19:04 (WTG 03)	07:34 (WTG 04) 18:41 (WTG 03)	07:17 18:14	06:54 16:38
21	05:45 20:30	06:15 19:53	06:46 19:05 (WTG 03)	07:33 (WTG 04) 08:20 (WTG 04)	07:19 18:12	06:56 16:37
22	05:45 20:29	06:16 19:51	06:47 19:06 (WTG 03)	07:32 (WTG 04) 08:20 (WTG 04)	07:20 18:11	06:57 16:37
23	05:46 20:28	06:17 19:50	06:48 19:07 (WTG 03)	07:31 (WTG 04) 08:21 (WTG 04)	07:21 18:09	06:58 16:36
24	05:47 20:27	06:18 19:48	06:49 19:08 (WTG 03)	07:30 (WTG 04) 08:21 (WTG 04)	07:22 18:08	06:59 16:36
25	05:48 20:26	06:19 19:47	06:50 19:09 (WTG 03)	07:29 (WTG 04) 08:21 (WTG 04)	06:23 17:07	07:00 16:35
26	05:49 20:25	06:20 19:45	06:51 19:10 (WTG 03)	07:28 (WTG 04) 08:21 (WTG 04)	06:24 17:05	07:01 16:34
27	05:50 20:24	06:21 19:44	06:52 19:10 (WTG 03)	07:28 (WTG 04) 08:21 (WTG 04)	06:26 17:04	07:02 16:34
28	05:51 20:23	06:22 19:42	06:53 19:11 (WTG 03)	07:27 (WTG 04) 08:21 (WTG 04)	06:27 17:02	07:04 16:34
29	05:52 20:22	06:23 19:41	06:54 19:11 (WTG 03)	07:27 (WTG 04) 08:20 (WTG 04)	06:28 17:01	07:05 16:33
30	05:53 20:21	06:24 19:39	06:55 19:11 (WTG 03)	07:27 (WTG 04) 08:20 (WTG 04)	06:29 17:00	07:06 16:33
31	05:54 20:20	06:25 19:37	06:56 19:11 (WTG 03)		06:30 16:59	
Ore potenziali eliofanìa	460	429	375	345	297	287
Totale, caso peggiore		861	1601	661		30

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 52 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (322)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno				
1	07:27	08:35 (WTG 06)	07:14	06:37		06:46		07:38 (WTG 04)	05:59	18:40 (WTG 03)	05:30			
	16:41	14	08:49 (WTG 06)	17:16	17:51		19:25	19:03 (WTG 03)	19:58	23	19:03 (WTG 03)	20:28		
2	07:28	08:36 (WTG 06)	07:13	06:36		06:44		07:40 (WTG 04)	05:58		18:43 (WTG 03)	05:30		
	16:42	13	08:49 (WTG 06)	17:17	17:52		19:26	61	19:05 (WTG 03)	19:59	17	19:00 (WTG 03)	20:28	
3	07:28	08:37 (WTG 06)	07:12	06:34		06:42		07:41 (WTG 04)	05:57		18:47 (WTG 03)	05:29		
	16:43	11	08:48 (WTG 06)	17:18	17:53	6	07:10 (WTG 04)	19:27	61	19:06 (WTG 03)	20:00	8	18:55 (WTG 03)	20:29
4	07:28	08:39 (WTG 06)	07:11	06:32		06:41		07:43 (WTG 04)	05:56				05:29	
	16:44	8	08:47 (WTG 06)	17:20	17:54	19	07:17 (WTG 04)	19:28	59	19:07 (WTG 03)	20:01		20:30	
5	07:28	08:42 (WTG 06)	07:10	06:31		06:40		07:46 (WTG 04)	05:54				05:28	
	16:45	3	08:45 (WTG 06)	17:21	17:55	26	07:20 (WTG 04)	19:30	55	19:08 (WTG 03)	20:02		20:31	
6	07:28		07:08	06:29		06:37		06:56 (7)	05:53				05:28	
	16:46		17:22	17:56	31	07:22 (WTG 04)	19:31	51	19:09 (WTG 03)	20:03		20:31		
7	07:28		07:07	06:28		06:36		06:54 (7)	05:52				05:28	
	16:47		17:24	17:58	35	07:24 (WTG 04)	19:32	40	19:10 (WTG 03)	20:04		20:32		
8	07:27		07:06	06:26		06:34		06:53 (7)	05:51				05:28	
	16:48		17:25	17:59	38	07:25 (WTG 04)	19:33	41	19:11 (WTG 03)	20:05		20:32		
9	07:27		07:05	06:24		06:33		18:31 (WTG 03)	05:49				05:27	
	16:49		17:26	18:00	41	07:26 (WTG 04)	19:34	41	19:12 (WTG 03)	20:06		20:33		
10	07:27		07:04	06:23		06:31		18:31 (WTG 03)	05:48				05:27	
	16:50		17:27	18:01	44	07:28 (WTG 04)	19:35	43	19:14 (WTG 03)	20:07		20:34		
11	07:27		07:03	06:21		06:29		06:54 (WTG 05)	05:47				05:27	
	16:51		17:29	18:02	46	07:28 (WTG 04)	19:36	55	19:14 (WTG 03)	20:08		20:34		
12	07:27		07:01	06:20		06:28		06:51 (WTG 05)	05:46				05:27	
	16:52		17:30	18:03	48	07:29 (WTG 04)	19:37	62	19:15 (WTG 03)	20:09		20:35		
13	07:26		07:00	06:18		06:26		06:50 (WTG 05)	05:45				05:27	
	16:53		17:31	18:04	50	07:30 (WTG 04)	19:38	66	19:16 (WTG 03)	20:10		20:35		
14	07:26		06:59	06:16		06:24		06:48 (WTG 05)	05:44				05:27	
	16:54		17:32	18:05	51	07:30 (WTG 04)	19:39	69	19:17 (WTG 03)	20:11		20:36		
15	07:26		06:57	06:15		06:23		06:47 (WTG 05)	05:43				05:27	
	16:55		17:34	18:07	52	07:30 (WTG 04)	19:40	73	19:19 (WTG 03)	20:12		20:36		
16	07:25		06:56	06:13		06:21		06:46 (WTG 05)	05:42				05:27	
	16:56		17:35	18:08	53	07:31 (WTG 04)	19:41	75	19:19 (WTG 03)	20:13		20:36		
17	07:25		06:55	06:11		06:20		06:46 (WTG 05)	05:41				05:27	
	16:58		17:36	18:09	53	07:30 (WTG 04)	19:43	76	19:20 (WTG 03)	20:14		20:37		
18	07:24		06:53	06:09		06:18		06:45 (WTG 05)	05:40				05:27	
	16:59		17:37	18:10	54	07:30 (WTG 04)	19:44	75	19:19 (WTG 03)	20:15		20:37		
19	07:24		06:52	06:08		06:17		06:45 (WTG 05)	05:39				05:27	
	17:00		17:39	18:11	54	07:29 (WTG 04)	19:45	76	19:19 (WTG 03)	20:16		20:37		
20	07:23		06:51	06:06		06:15		06:44 (WTG 05)	05:38				05:27	
	17:01		17:40	18:12	54	07:30 (WTG 04)	19:46	74	19:17 (WTG 03)	20:17		20:38		
21	07:22		06:49	06:04		06:14		06:45 (WTG 05)	05:37				05:27	
	17:02		17:41	18:13	54	07:29 (WTG 04)	19:47	72	19:17 (WTG 03)	20:18		20:38		
22	07:22		06:48	06:03		06:12		06:44 (WTG 05)	05:37				05:27	
	17:03		17:42	18:14	53	07:28 (WTG 04)	19:48	71	19:16 (WTG 03)	20:19		20:38		
23	07:21		06:46	06:01		06:11		06:45 (WTG 05)	05:36				05:28	
	17:05		17:43	18:15	53	07:28 (WTG 04)	19:49	67	19:15 (WTG 03)	20:20		20:38		
24	07:20		06:45	05:59		06:09		06:45 (WTG 05)	05:35				05:28	
	17:06		17:45	18:17	53	07:28 (WTG 04)	19:50	65	19:14 (WTG 03)	20:21		20:39		
25	07:20		06:43	05:58		06:08		06:46 (WTG 05)	05:34				05:28	
	17:07		17:46	18:18	51	07:26 (WTG 04)	19:51	61	19:13 (WTG 03)	20:22		20:39		
26	07:19		06:42	05:56		06:06		06:47 (WTG 05)	05:34				05:28	
	17:08		17:47	18:19	50	07:26 (WTG 04)	19:52	56	19:11 (WTG 03)	20:23		20:39		
27	07:18		06:40	05:54		06:05		06:49 (WTG 05)	05:33				05:29	
	17:10		17:48	18:20	49	07:25 (WTG 04)	19:53	49	19:10 (WTG 03)	20:24		20:39		
28	07:17		06:39	05:53		06:04		06:51 (WTG 05)	05:32				05:29	
	17:11		17:49	18:21	47	07:23 (WTG 04)	19:54	43	19:09 (WTG 03)	20:24		20:39		
29	07:16			06:51		06:02		18:36 (WTG 03)	05:32				05:30	
	17:12			19:22	56	19:00 (WTG 03)	19:55	31	19:07 (WTG 03)	20:25		20:39		
30	07:16			06:49		06:01		18:38 (WTG 03)	05:31				05:30	
	17:13			19:23	59	19:02 (WTG 03)	19:57	27	19:05 (WTG 03)	20:26		20:39		
31	07:15			06:48		06:00			05:31					
	17:15			19:24	60	19:03 (WTG 03)			20:27					
Ore potenziali eliofanìa	296		297	369	1340	399	1756	449	48			454		
Totale, caso peggiore	49													

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 52 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (322)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 19:13 (WTG 05)	07:20 (WTG 04)	06:31 07:07
2	05:31 20:39	05:56 20:18	06:27 19:34	55 18:29 (WTG 03) 43 19:12 (WTG 03)	06:58 18:43	06:33 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	41 18:29 (WTG 03) 41 19:10 (WTG 03)	06:59 18:41	06:34 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	41 19:08 (WTG 03)	07:00 18:39	06:35 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	40 06:51 (7) 40 19:07 (WTG 03)	07:01 18:38	06:36 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	50 06:52 (7) 50 19:05 (WTG 03)	07:02 18:36	06:38 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	55 07:41 (WTG 04) 55 19:03 (WTG 03)	07:03 18:34	06:39 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	59 07:38 (WTG 04) 59 19:02 (WTG 03)	07:04 18:33	06:40 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	61 07:35 (WTG 04) 61 19:00 (WTG 03)	07:05 18:31	06:41 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	61 07:33 (WTG 04) 61 18:58 (WTG 03)	07:06 18:30	06:42 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	61 07:32 (WTG 04) 61 18:57 (WTG 03)	07:07 18:28	06:44 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	60 07:30 (WTG 04) 60 18:55 (WTG 03)	07:08 18:26	06:45 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	59 07:28 (WTG 04) 59 18:53 (WTG 03)	07:10 18:25	06:46 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	57 07:27 (WTG 04) 57 18:52 (WTG 03)	07:11 18:23	06:47 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	51 07:26 (WTG 04) 51 18:50 (WTG 03)	07:12 18:22	06:48 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	49 07:25 (WTG 04) 49 08:14 (WTG 04)	07:13 18:20	06:50 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	50 07:24 (WTG 04) 50 08:14 (WTG 04)	07:14 18:18	06:51 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	52 06:52 (WTG 05) 52 08:15 (WTG 04)	07:15 18:17	06:52 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	53 06:51 (WTG 05) 53 08:15 (WTG 04)	07:16 18:15	06:53 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	53 06:50 (WTG 05) 53 08:15 (WTG 04)	07:17 18:14	06:54 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	54 06:49 (WTG 05) 54 08:15 (WTG 04)	07:19 18:12	06:56 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	54 06:49 (WTG 05) 54 08:15 (WTG 04)	07:20 18:11	06:57 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	54 06:48 (WTG 05) 54 08:14 (WTG 04)	07:21 18:09	06:58 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	54 06:48 (WTG 05) 54 08:14 (WTG 04)	07:22 18:08	06:59 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	53 06:48 (WTG 05) 53 08:13 (WTG 04)	06:23 17:07	07:00 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	54 06:48 (WTG 05) 54 08:13 (WTG 04)	06:24 17:05	07:01 16:37
27	05:50 20:24	06:21 19:44	06:53 18:51	53 06:48 (WTG 05) 53 08:12 (WTG 04)	06:26 17:04	07:02 16:37
28	05:51 20:23	06:22 19:42	06:54 18:50	52 06:48 (WTG 05) 52 08:11 (WTG 04)	06:27 17:02	07:04 16:38
29	05:52 20:22	06:23 19:41	06:55 18:48	52 06:49 (WTG 05) 52 08:11 (WTG 04)	06:28 17:01	07:05 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	50 06:50 (WTG 05) 50 08:10 (WTG 04)	06:29 17:00	07:06 16:40
31	05:54 20:20	06:25 19:37	06:51 19:15 (WTG 03)		06:30 16:59	07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	287
Totale, caso peggiore		1253	1581	359		420

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

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Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 53 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (366)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58							
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59							
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00							
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01							
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02							
6	07:28 16:46	07:08 17:22	06:29 17:56	06:38 19:31	05:53 20:03							
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04							
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05							
9	07:27 16:49	07:05 17:26	06:24 18:00	06:33 19:34	05:50 20:06							
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07							
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08							
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09							
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10							
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11							
15	07:26 16:55	06:57 17:34	06:15 18:07	06:23 19:40	05:43 20:12							
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:41	05:42 20:13							
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14							
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	05:40 20:15							
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16							
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17							
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18							
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19							
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20							
24	07:20 17:06	06:45 17:45	06:00 18:17	06:10 19:50	05:35 20:21							
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22							
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23							
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24							
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24							
29	07:16 17:12		05:51 19:22	06:02 19:56	05:32 20:25							
30	07:16 17:13		05:49 19:23	06:01 19:57	05:31 20:26							
31	07:15 17:15		06:48 19:24		05:31 20:27							
Ore potenziali eliofania	296	297	369	399	449							
Totale, caso peggiore				239	7							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 54 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (367)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	06:36 (WTG 04) 05:30 22 06:58 (WTG 04) 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	22 06:58 (WTG 04) 20:28 22 06:35 (WTG 04) 05:29
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	22 06:57 (WTG 04) 20:29 22 06:35 (WTG 04) 05:29
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	22 06:57 (WTG 04) 20:30 22 06:36 (WTG 04) 05:29
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	21 06:57 (WTG 04) 20:31 21 06:36 (WTG 04) 05:28
6	07:28 16:46	07:08 17:22	06:29 17:56	10 07:08 (WTG 06) 06:38 07:18 (WTG 06) 19:31	05:53 20:03	20 06:56 (WTG 04) 20:31 20 06:37 (WTG 04) 05:28
7	07:28 16:47	07:07 17:24	06:28 17:58	14 07:07 (WTG 06) 06:36 07:21 (WTG 06) 19:32	05:52 20:04	19 06:56 (WTG 04) 20:32 19 06:38 (WTG 04) 05:28
8	07:27 16:48	07:06 17:25	06:26 17:59	16 07:05 (WTG 06) 06:34 07:21 (WTG 06) 19:33	05:51 20:05	17 06:55 (WTG 04) 20:32 17 06:38 (WTG 04) 05:27
9	07:27 16:49	07:05 17:26	06:24 18:00	17 07:04 (WTG 06) 06:33 07:21 (WTG 06) 19:34	05:50 20:06	15 06:54 (WTG 04) 20:33 15 06:38 (WTG 04) 05:27
10	07:27 16:50	07:04 17:27	06:23 18:01	18 07:04 (WTG 06) 06:31 07:22 (WTG 06) 19:35	05:48 20:07	11 06:51 (WTG 04) 20:34 11 06:42 (WTG 04) 05:27
11	07:27 16:51	07:03 17:29	06:21 18:02	19 07:03 (WTG 06) 06:29 07:22 (WTG 06) 19:36	05:47 20:08	7 06:49 (WTG 04) 20:34 7 06:42 (WTG 04) 05:27
12	07:27 16:52	07:01 17:30	06:20 18:03	19 07:02 (WTG 06) 06:28 07:21 (WTG 06) 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	18 07:03 (WTG 06) 06:26 07:21 (WTG 06) 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	17 07:03 (WTG 06) 06:25 07:20 (WTG 06) 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	14 07:04 (WTG 06) 06:23 07:18 (WTG 06) 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	11 07:06 (WTG 06) 06:21 07:17 (WTG 06) 19:41	05:42 20:13	05:27 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	3 07:09 (WTG 06) 06:20 07:12 (WTG 06) 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:28 20:38
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	10 06:43 (WTG 04) 05:35 10 06:53 (WTG 04) 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	14 06:41 (WTG 04) 05:34 14 06:55 (WTG 04) 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	17 06:40 (WTG 04) 05:34 17 06:57 (WTG 04) 20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	19 06:38 (WTG 04) 05:33 19 06:57 (WTG 04) 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	21 06:37 (WTG 04) 05:32 21 06:58 (WTG 04) 20:24	05:29 20:39
29	07:16 17:12		06:51 19:22	06:02 19:56	21 06:37 (WTG 04) 05:32 21 06:58 (WTG 04) 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	22 06:36 (WTG 04) 05:31 22 06:58 (WTG 04) 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24		05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore			176		124	198

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 54 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (367)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	07:42 (WTG 06) 08:00 (WTG 06)	06:32 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	07:41 (WTG 06) 08:00 (WTG 06)	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	07:41 (WTG 06) 08:00 (WTG 06)	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	07:41 (WTG 06) 07:59 (WTG 06)	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	07:41 (WTG 06) 07:58 (WTG 06)	06:36 16:52	07:11 16:32
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	07:42 (WTG 06) 07:57 (WTG 06)	06:38 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35	07:43 (WTG 06) 07:55 (WTG 06)	06:39 16:50	07:13 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	07:44 (WTG 06) 07:52 (WTG 06)	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	07:44 (WTG 06) 07:52 (WTG 06)	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	07:44 (WTG 06) 07:52 (WTG 06)	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	07:44 (WTG 06) 07:52 (WTG 06)	06:44 16:46	07:17 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	07:44 (WTG 06) 07:52 (WTG 06)	06:45 16:45	07:18 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	07:44 (WTG 06) 07:52 (WTG 06)	06:46 16:44	07:19 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	07:44 (WTG 06) 07:52 (WTG 06)	06:47 16:43	07:20 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	07:44 (WTG 06) 07:52 (WTG 06)	06:48 16:42	07:21 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	07:44 (WTG 06) 07:52 (WTG 06)	06:50 16:41	07:22 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	07:44 (WTG 06) 07:52 (WTG 06)	06:51 16:40	07:23 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	07:44 (WTG 06) 07:52 (WTG 06)	06:52 16:40	07:24 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	07:44 (WTG 06) 07:52 (WTG 06)	06:53 16:39	07:25 16:33
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	07:44 (WTG 06) 07:52 (WTG 06)	06:54 16:38	07:26 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	07:44 (WTG 06) 07:52 (WTG 06)	06:56 16:37	07:27 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	07:44 (WTG 06) 07:52 (WTG 06)	06:57 16:37	07:28 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	07:44 (WTG 06) 07:52 (WTG 06)	06:58 16:36	07:29 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	07:44 (WTG 06) 07:52 (WTG 06)	06:59 16:36	07:30 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	07:44 (WTG 06) 07:52 (WTG 06)	07:00 16:35	07:31 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 18:05	07:44 (WTG 06) 07:52 (WTG 06)	07:01 16:35	07:32 16:37
27	05:50 20:24	06:21 19:44	06:53 18:51	07:25 18:04	07:44 (WTG 06) 07:52 (WTG 06)	07:03 16:34	07:33 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 18:03	07:44 (WTG 06) 07:52 (WTG 06)	07:04 16:34	07:34 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 18:02	07:44 (WTG 06) 07:52 (WTG 06)	07:05 16:33	07:35 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	07:28 18:01	07:44 (WTG 06) 07:52 (WTG 06)	07:06 16:33	07:36 16:40
31	05:54 20:20	06:25 19:37		06:30 16:59			07:37 16:40
Ore potenziali eliofania	460	429	375	345	297	287	
Totale, caso peggiore		326	55	125			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 55 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (368)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	06:34 (WTG 04) 05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	23 06:34 (WTG 04) 05:30 23 06:57 (WTG 04) 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	23 06:33 (WTG 04) 05:29 23 06:56 (WTG 04) 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	22 06:34 (WTG 04) 05:29 22 06:56 (WTG 04) 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	22 06:34 (WTG 04) 05:29 22 06:56 (WTG 04) 20:31
6	07:28 16:46	07:08 17:22	06:29 17:56	07:09 (WTG 06) 06:38 07:17 (WTG 06) 19:31	05:53 20:03	22 06:34 (WTG 04) 05:28 22 06:56 (WTG 04) 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	07:07 (WTG 06) 06:36 07:20 (WTG 06) 19:32	05:52 20:04	20 06:35 (WTG 04) 05:28 20 06:55 (WTG 04) 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59	07:05 (WTG 06) 06:34 07:20 (WTG 06) 19:33	05:51 20:05	20 06:35 (WTG 04) 05:28 20 06:55 (WTG 04) 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00	07:03 (WTG 06) 06:33 07:21 (WTG 06) 19:34	05:50 20:06	18 06:35 (WTG 04) 05:27 18 06:53 (WTG 04) 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	07:03 (WTG 06) 06:31 07:22 (WTG 06) 19:35	05:48 20:07	16 06:36 (WTG 04) 05:27 16 06:52 (WTG 04) 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	07:02 (WTG 06) 06:29 07:21 (WTG 06) 19:36	05:47 20:08	14 06:37 (WTG 04) 05:27 14 06:51 (WTG 04) 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	07:02 (WTG 06) 06:28 07:21 (WTG 06) 19:37	05:46 20:09	10 06:39 (WTG 04) 05:27 10 06:49 (WTG 04) 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	07:02 (WTG 06) 06:26 07:21 (WTG 06) 19:38	05:45 20:10	4 06:42 (WTG 04) 05:27 4 06:46 (WTG 04) 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	07:02 (WTG 06) 06:25 07:20 (WTG 06) 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	07:02 (WTG 06) 06:23 07:18 (WTG 06) 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	07:04 (WTG 06) 06:21 07:17 (WTG 06) 19:41	05:42 20:13	05:27 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	07:06 (WTG 06) 06:20 07:14 (WTG 06) 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:28 20:38
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24	05:29 20:39
29	07:16 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24		05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore			185	98	237	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 55 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (368)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:49 (WTG 04) 06:26 07:01 (WTG 04) 19:36	06:57 18:45	07:41 (WTG 06) 06:32 08:00 (WTG 06) 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:47 (WTG 04) 06:27 07:02 (WTG 04) 19:34	06:58 18:43	07:41 (WTG 06) 06:33 08:00 (WTG 06) 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:46 (WTG 04) 06:28 07:03 (WTG 04) 19:32	06:59 18:41	07:41 (WTG 06) 06:34 07:59 (WTG 06) 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:45 (WTG 04) 06:29 07:04 (WTG 04) 19:31	07:00 18:39	07:41 (WTG 06) 06:35 07:59 (WTG 06) 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:45 (WTG 04) 06:30 07:05 (WTG 04) 19:29	07:01 18:38	07:41 (WTG 06) 06:36 07:57 (WTG 06) 16:52	07:11 16:32
6	05:33 20:38	06:00 20:14	06:44 (WTG 04) 06:31 07:05 (WTG 04) 19:27	07:02 18:36	07:42 (WTG 06) 06:38 07:56 (WTG 06) 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:44 (WTG 04) 06:32 07:06 (WTG 04) 19:26	07:03 18:34	07:43 (WTG 06) 06:39 07:54 (WTG 06) 16:50	07:13 16:31
8	05:35 20:37	06:02 20:11	06:43 (WTG 04) 06:33 07:06 (WTG 04) 19:24	07:04 18:33	07:47 (WTG 06) 06:40 07:49 (WTG 06) 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:43 (WTG 04) 06:34 07:06 (WTG 04) 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:43 (WTG 04) 06:35 07:06 (WTG 04) 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:43 (WTG 04) 06:36 07:06 (WTG 04) 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:43 (WTG 04) 06:37 07:05 (WTG 04) 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:44 (WTG 04) 06:38 07:05 (WTG 04) 19:16	07:10 18:25	06:46 16:44	07:18 16:32
14	05:39 20:34	06:08 20:03	06:44 (WTG 04) 06:39 07:04 (WTG 04) 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:45 (WTG 04) 06:40 07:03 (WTG 04) 19:12	07:12 18:22	06:48 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:46 (WTG 04) 06:41 07:02 (WTG 04) 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:47 (WTG 04) 06:42 07:00 (WTG 04) 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:49 (WTG 04) 06:43 06:57 (WTG 04) 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	06:23 17:07	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	06:24 17:05	07:01 16:35	07:26 16:37
27	05:50 20:24	06:21 19:44	06:53 18:51	06:26 17:04	07:03 16:34	07:26 16:37
28	05:51 20:23	06:22 19:42	06:54 18:50	06:27 17:03	07:04 16:34	07:26 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	06:28 17:01	07:05 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	06:29 17:00	07:06 16:33	07:27 16:40
31	05:54 20:20	06:25 06:51 (WTG 04) 06:25 06:58 (WTG 04) 19:37	18:46	06:30 16:59	16:33 16:40	07:27 16:40
Ore potenziali eliofania	460	429	375	345	297	287
Totale, caso peggiore	7	336	67	117		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 56 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (369)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	06:34 (WTG 04) 05:30 22 06:56 (WTG 04) 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	06:34 (WTG 04) 05:30 23 06:57 (WTG 04) 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	06:33 (WTG 04) 05:29 23 06:56 (WTG 04) 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	06:33 (WTG 04) 05:29 23 06:56 (WTG 04) 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	06:33 (WTG 04) 05:29 23 06:56 (WTG 04) 20:31
6	07:28 16:46	07:08 17:22	06:29 17:56	06:38 19:31	05:53 20:03	06:34 (WTG 04) 05:28 22 06:56 (WTG 04) 20:31
7	07:28 16:47	07:07 17:23	06:28 17:57	06:36 19:32	05:52 20:04	06:34 (WTG 04) 05:28 21 06:55 (WTG 04) 20:32
8	07:27 16:48	07:06 17:24	06:26 17:58	06:34 19:33	05:51 20:05	06:35 (WTG 04) 05:28 20 06:55 (WTG 04) 20:32
9	07:27 16:49	07:05 17:25	06:24 17:59	06:33 19:34	05:50 20:06	06:35 (WTG 04) 05:27 18 06:53 (WTG 04) 20:33
10	07:27 16:50	07:04 17:26	06:23 18:00	06:31 19:35	05:48 20:07	06:36 (WTG 04) 05:27 16 06:52 (WTG 04) 20:34
11	07:27 16:51	07:03 17:27	06:21 18:01	06:29 19:36	05:47 20:08	06:37 (WTG 04) 05:27 14 06:51 (WTG 04) 20:34
12	07:27 16:52	07:01 17:28	06:20 18:02	06:28 19:37	05:46 20:09	06:38 (WTG 04) 05:27 11 06:49 (WTG 04) 20:35
13	07:26 16:53	07:00 17:29	06:18 18:03	06:26 19:38	05:45 20:10	06:41 (WTG 04) 05:27 6 06:47 (WTG 04) 20:35
14	07:26 16:54	06:59 17:30	06:16 18:04	06:25 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:31	06:15 18:05	06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:32	06:13 18:06	06:21 19:41	05:42 20:13	05:27 20:36
17	07:25 16:57	06:55 17:33	06:11 18:07	06:20 19:42	05:41 20:14	05:27 20:37
18	07:24 16:58	06:53 17:34	06:10 18:08	06:18 19:43	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:35	06:08 18:09	06:17 19:44	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:36	06:06 18:10	06:15 19:45	05:38 20:17	05:27 20:38
21	07:22 17:02	06:50 17:37	06:04 18:11	06:14 19:46	05:38 20:18	05:27 20:38
22	07:22 17:03	06:48 17:38	06:03 18:12	06:12 19:47	05:37 20:19	05:27 20:38
23	07:21 17:04	06:46 17:39	06:01 18:13	06:11 19:48	05:36 20:20	05:28 20:38
24	07:20 17:05	06:45 17:40	05:59 18:14	06:09 19:49	05:35 20:21	05:28 20:39
25	07:20 17:06	06:43 17:41	05:58 18:15	06:08 19:50	05:34 20:22	05:28 20:39
26	07:19 17:07	06:42 17:42	05:56 18:16	06:06 19:51	05:34 20:23	05:29 20:39
27	07:18 17:08	06:40 17:43	05:54 18:17	06:05 19:52	05:33 20:24	05:29 20:39
28	07:17 17:09	06:39 17:44	05:53 18:18	06:04 19:53	05:33 20:25	05:29 20:39
29	07:16 17:10	06:38 17:45	05:53 18:19	06:04 19:54	05:32 20:26	05:30 20:39
30	07:16 17:11	06:37 17:46	05:53 18:20	06:04 19:55	05:32 20:27	05:30 20:39
31	07:15 17:12	06:36 17:47	05:53 18:21	06:04 19:56	05:31 20:28	05:30 20:39
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore			183	97	242	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 56 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (369)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:48 (WTG 04) 13 07:01 (WTG 04)	06:26 19:36	06:57 18:45	07:41 (WTG 06) 16:57
2	05:31 20:39	05:56 20:18	06:47 (WTG 04) 15 07:02 (WTG 04)	06:27 19:34	06:58 18:43	07:41 (WTG 06) 16:56
3	05:32 20:38	05:57 20:17	06:46 (WTG 04) 17 07:03 (WTG 04)	06:28 19:32	06:59 18:41	07:40 (WTG 06) 16:54
4	05:32 20:38	05:58 20:16	06:45 (WTG 04) 19 07:04 (WTG 04)	06:29 19:31	07:00 18:39	07:41 (WTG 06) 16:53
5	05:33 20:38	05:59 20:15	06:44 (WTG 04) 21 07:05 (WTG 04)	06:30 19:29	07:01 18:38	07:41 (WTG 06) 16:52
6	05:33 20:38	06:00 20:14	06:44 (WTG 04) 21 07:05 (WTG 04)	06:31 19:27	07:02 18:36	07:42 (WTG 06) 16:51
7	05:34 20:37	06:01 20:12	06:43 (WTG 04) 22 07:05 (WTG 04)	06:32 19:26	07:03 18:34	07:43 (WTG 06) 16:50
8	05:35 20:37	06:02 20:11	06:43 (WTG 04) 23 07:06 (WTG 04)	06:33 19:24	07:04 18:33	07:43 (WTG 06) 16:49
9	05:35 20:37	06:03 20:10	06:43 (WTG 04) 23 07:06 (WTG 04)	06:34 19:22	07:05 18:31	07:43 (WTG 06) 16:48
10	05:36 20:36	06:04 20:09	06:43 (WTG 04) 22 07:05 (WTG 04)	06:35 19:21	07:06 18:30	07:43 (WTG 06) 16:47
11	05:37 20:36	06:05 20:07	06:43 (WTG 04) 22 07:05 (WTG 04)	06:36 19:19	07:07 18:28	07:43 (WTG 06) 16:46
12	05:37 20:35	06:06 20:06	06:43 (WTG 04) 22 07:05 (WTG 04)	06:37 19:17	07:09 18:26	07:43 (WTG 06) 16:45
13	05:38 20:35	06:07 20:05	06:43 (WTG 04) 21 07:04 (WTG 04)	06:38 19:16	07:10 18:25	07:43 (WTG 06) 16:44
14	05:39 20:34	06:08 20:03	06:44 (WTG 04) 20 07:04 (WTG 04)	06:39 19:14	07:11 18:23	07:43 (WTG 06) 16:43
15	05:40 20:34	06:09 20:02	06:45 (WTG 04) 18 07:03 (WTG 04)	06:40 19:12	07:12 18:22	07:43 (WTG 06) 16:42
16	05:40 20:33	06:10 20:00	06:46 (WTG 04) 15 07:01 (WTG 04)	06:41 19:10	07:13 18:20	07:43 (WTG 06) 16:41
17	05:41 20:33	06:11 19:59	06:47 (WTG 04) 12 06:59 (WTG 04)	06:42 19:09	07:14 18:18	07:43 (WTG 06) 16:40
18	05:42 20:32	06:12 19:57	06:50 (WTG 04) 6 06:56 (WTG 04)	06:43 19:07	07:15 18:17	07:43 (WTG 06) 16:40
19	05:43 20:31	06:13 19:56	06:50 (WTG 04) 19:05	06:44 19:05	07:16 18:15	07:43 (WTG 06) 16:39
20	05:44 20:30	06:14 19:55	06:45 19:03	06:45 19:03	07:17 18:14	07:43 (WTG 06) 16:38
21	05:45 20:30	06:15 19:53	06:46 19:02	06:46 19:02	07:19 18:12	07:43 (WTG 06) 16:37
22	05:45 20:29	06:16 19:52	06:47 19:00	06:47 19:00	07:20 18:11	07:43 (WTG 06) 16:37
23	05:46 20:28	06:17 19:50	06:48 18:58	06:48 18:58	07:21 18:10	07:43 (WTG 06) 16:36
24	05:47 20:27	06:18 19:48	06:49 18:57	06:49 18:57	07:22 18:08	07:43 (WTG 06) 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	06:50 18:55	07:23 17:07	07:43 (WTG 06) 16:35
26	05:49 20:25	06:20 19:45	06:52 18:53	06:52 18:53	07:24 17:05	07:43 (WTG 06) 16:35
27	05:50 20:24	06:21 19:44	06:53 18:51	06:53 18:51	07:26 17:04	07:43 (WTG 06) 16:34
28	05:51 20:23	06:22 19:42	06:54 18:50	06:54 18:50	07:27 17:03	07:43 (WTG 06) 16:34
29	05:52 20:23	06:23 19:41	06:55 18:48	06:55 18:48	07:28 17:01	07:43 (WTG 06) 16:33
30	05:53 20:21	06:24 19:39	06:56 18:46	06:56 18:46	07:29 17:00	07:43 (WTG 06) 16:33
31	05:54 20:20	06:25 19:37	06:57 18:45	06:57 18:45	07:30 16:59	07:43 (WTG 06) 16:32
Ore potenziali eliofania	460	429	375	345	297	287
Totale, caso peggiore	9	332	69	114		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 57 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (370)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	06:34 (WTG 04) 22 06:56 (WTG 04) 20:28	
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	22 06:34 (WTG 04) 22 06:56 (WTG 04) 20:28	
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	23 06:33 (WTG 04) 23 06:56 (WTG 04) 20:29	
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	23 06:33 (WTG 04) 23 06:56 (WTG 04) 20:30	
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	23 06:33 (WTG 04) 23 06:56 (WTG 04) 20:31	
6	07:28 16:46	07:08 17:22	06:29 17:56	07:11 (WTG 06) 07:13 (WTG 06)	06:38 19:31	05:53 20:03	21 06:34 (WTG 04) 21 06:55 (WTG 04) 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	07:07 (WTG 06) 07:18 (WTG 06)	06:36 19:32	05:52 20:04	21 06:34 (WTG 04) 21 06:55 (WTG 04) 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59	11 07:05 (WTG 06) 14 07:19 (WTG 06)	06:34 19:33	05:51 20:05	20 06:35 (WTG 04) 20 06:55 (WTG 04) 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00	17 07:03 (WTG 06) 17 07:20 (WTG 06)	06:33 19:34	05:50 20:06	19 06:34 (WTG 04) 19 06:53 (WTG 04) 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	18 07:03 (WTG 06) 18 07:21 (WTG 06)	06:31 19:35	05:48 20:07	17 06:35 (WTG 04) 17 06:52 (WTG 04) 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	18 07:02 (WTG 06) 18 07:20 (WTG 06)	06:29 19:36	05:47 20:08	15 06:51 (WTG 04) 15 06:38 (WTG 04) 20:35
12	07:27 16:52	07:01 17:30	06:20 18:03	19 07:01 (WTG 06) 19 07:20 (WTG 06)	06:28 19:37	05:46 20:09	11 06:49 (WTG 04) 11 06:40 (WTG 04) 20:37
13	07:26 16:53	07:00 17:31	06:18 18:04	19 07:01 (WTG 06) 19 07:20 (WTG 06)	06:26 19:38	05:45 20:10	7 06:47 (WTG 04) 7 06:47 (WTG 04) 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	18 07:01 (WTG 06) 18 07:19 (WTG 06)	06:25 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	17 07:01 (WTG 06) 17 07:18 (WTG 06)	06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	14 07:03 (WTG 06) 14 07:17 (WTG 06)	06:21 19:41	05:42 20:13	05:27 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	11 07:04 (WTG 06) 11 07:15 (WTG 06)	06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	2 07:08 (WTG 06) 2 07:10 (WTG 06)	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:39 20:17	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:38 20:18	05:27 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18	05:38 20:19	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:37 20:20	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:36 20:21	05:28 20:39
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:35 20:22	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	06:43 (WTG 04) 06:49 (WTG 04)	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	6 06:40 (WTG 04) 12 06:52 (WTG 04)	05:34 20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	06:38 (WTG 04) 15 06:53 (WTG 04)	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	18 06:37 (WTG 04) 18 06:55 (WTG 04)	05:32 20:24	05:29 20:39
29	07:16 17:12		06:51 19:22	06:02 19:56	20 06:36 (WTG 04) 20 06:56 (WTG 04)	05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	21 06:34 (WTG 04) 21 06:55 (WTG 04)	05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24			05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454	
Totale, caso peggiore			180	92	244		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 57 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (370)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:48 (WTG 04) 07:01 (WTG 04)	06:26 19:36	06:57 18:45	07:41 (WTG 06) 16:57
2	05:31 20:39	05:56 20:18	06:47 (WTG 04) 07:02 (WTG 04)	06:27 19:34	06:58 18:43	07:40 (WTG 06) 16:56
3	05:32 20:38	05:57 20:17	06:46 (WTG 04) 07:03 (WTG 04)	06:28 19:32	06:59 18:41	07:40 (WTG 06) 16:55
4	05:32 20:38	05:58 20:16	06:45 (WTG 04) 07:04 (WTG 04)	06:29 19:31	07:00 18:39	07:40 (WTG 06) 16:54
5	05:33 20:38	05:59 20:15	06:44 (WTG 04) 07:04 (WTG 04)	06:30 19:29	07:01 18:38	07:41 (WTG 06) 16:52
6	05:33 20:38	06:00 20:14	06:44 (WTG 04) 07:05 (WTG 04)	06:31 19:27	07:02 18:36	07:42 (WTG 06) 16:51
7	05:34 20:37	06:01 20:12	06:43 (WTG 04) 07:05 (WTG 04)	06:32 19:26	07:03 18:35	07:44 (WTG 06) 16:50
8	05:35 20:37	06:02 20:11	06:43 (WTG 04) 07:05 (WTG 04)	06:33 19:24	07:04 18:33	07:52 (WTG 06) 16:49
9	05:35 20:37	06:03 20:10	06:43 (WTG 04) 07:05 (WTG 04)	06:34 19:22	07:05 18:31	16:48 16:31
10	05:36 20:36	06:04 20:09	06:43 (WTG 04) 07:05 (WTG 04)	06:35 19:21	07:06 18:30	06:42 16:31
11	05:37 20:36	06:05 20:07	06:43 (WTG 04) 07:05 (WTG 04)	06:36 19:19	07:07 18:28	06:44 16:31
12	05:37 20:35	06:06 20:06	06:43 (WTG 04) 07:05 (WTG 04)	06:37 19:17	07:09 18:26	06:45 16:31
13	05:38 20:35	06:07 20:05	06:43 (WTG 04) 07:04 (WTG 04)	06:38 19:16	07:10 18:25	06:46 16:32
14	05:39 20:34	06:08 20:03	06:44 (WTG 04) 07:03 (WTG 04)	06:39 19:14	07:11 18:23	06:47 16:32
15	05:40 20:34	06:09 20:02	06:45 (WTG 04) 07:02 (WTG 04)	06:40 19:12	07:12 18:22	06:48 16:32
16	05:40 20:33	06:10 20:00	06:46 (WTG 04) 07:01 (WTG 04)	06:41 19:10	07:13 18:20	06:50 16:31
17	05:41 20:33	06:11 19:59	06:47 (WTG 04) 06:59 (WTG 04)	06:42 19:09	07:14 18:18	06:51 16:32
18	05:42 20:32	06:12 19:57	06:51 (WTG 04) 06:55 (WTG 04)	06:43 19:07	07:15 18:17	06:52 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	06:44 19:05	07:16 18:15	06:53 16:33
20	05:44 20:30	06:14 19:55	06:45 19:03	06:45 19:03	07:17 18:14	06:54 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	06:46 19:02	07:19 18:12	06:56 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	06:47 19:00	07:20 18:11	06:57 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	06:48 18:58	07:21 18:10	06:58 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	06:49 18:57	07:22 18:08	06:59 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	06:50 18:55	07:23 17:07	07:00 16:35
26	05:49 20:25	06:20 19:45	06:52 18:53	06:52 18:53	07:24 17:05	07:01 16:35
27	05:50 20:24	06:21 19:44	06:53 18:51	06:53 18:51	07:25 17:04	07:03 16:34
28	05:51 20:24	06:22 19:42	06:54 18:50	06:54 18:50	07:26 17:03	07:04 16:34
29	05:52 20:23	06:23 19:41	06:55 18:48	06:55 18:48	07:27 17:01	07:05 16:33
30	05:53 20:21	06:24 19:39	06:56 18:46	06:56 18:46	07:28 17:00	07:06 16:33
31	05:54 20:20	06:25 19:37	06:57 18:45	06:57 18:45	07:29 16:59	07:07 16:40
Ore potenziali eliofania	460	429	375	345	297	287
Totale, caso peggiore	9	325	74	109		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 58 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (371)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	05:29 20:29	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32
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6	07:28 16:46	07:08 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:32	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
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31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:20	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	287
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 59 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (372)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
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Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	287
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 60 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (373)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27	07:14	06:37	06:46	06:00	05:30	05:31	05:55	06:26	06:57	06:32	07:07
	16:41	17:16	17:51	19:25	19:58	20:28	20:39	20:19	19:36	18:45	16:57	16:32
2	07:28	07:13	06:36	06:44	05:58	05:30	05:31	05:56	06:27	06:58	06:33	07:08
	16:42	17:17	17:52	19:26	19:59	20:28	20:39	20:18	19:34	18:43	16:56	16:32
3	07:28	07:12	06:34	06:43	05:57	05:29	05:32	05:57	06:28	06:59	06:34	07:09
	16:43	17:19	17:53	19:27	20:00	20:29	20:38	20:17	19:32	18:41	16:55	16:32
4	07:28	07:11	06:33	06:41	05:56	05:29	05:32	05:58	06:29	07:00	06:35	07:10
	16:44	17:20	17:54	19:29	20:01	20:30	20:38	20:16	19:31	18:39	16:54	16:32
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	16:45	17:21	17:55	19:30	20:02	20:31	20:38	20:15	19:29	18:38	16:52	16:32
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	16:53	17:31	18:04	19:38	20:10	20:35	20:35	20:05	19:15	18:25	16:44	16:32
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	16:55	17:34	18:07	19:40	20:12	20:36	20:34	20:02	19:12	18:22	16:42	16:32
16	07:25	06:56	06:13	06:21	05:42	05:27	05:40	06:10	06:41	07:13	06:50	07:20
	16:56	17:35	18:08	19:41	20:13	20:36	20:33	20:00	19:10	18:20	16:41	16:32
17	07:25	06:55	06:11	06:51 (WTG 06)	06:20	05:41	05:27	05:41	06:11	06:42	07:14	07:21
	16:58	17:36	18:09	19:43	20:14	20:37	20:33	19:59	19:09	18:18	16:40	16:32
18	07:24	06:53	06:10	06:49 (WTG 06)	06:18	05:40	05:27	05:42	06:12	06:43	07:15	07:22
	16:59	17:37	18:10	19:44	20:15	20:37	20:32	19:57	19:07	18:17	16:40	16:33
19	07:24	06:52	06:08	06:49 (WTG 06)	06:17	05:39	05:27	05:43	06:13	06:44	07:16	07:23
	17:00	17:39	18:11	19:45	20:16	20:37	20:31	19:56	19:05	18:15	16:39	16:33
20	07:23	06:51	06:06	06:49 (WTG 06)	06:15	05:38	05:27	05:44	06:14	06:45	07:17	07:24
	17:01	17:40	18:12	19:46	20:17	20:38	20:30	19:55	19:03	18:14	16:38	16:34
21	07:22	06:49	06:04	06:48 (WTG 06)	06:14	05:38	05:27	05:45	06:15	06:46	07:18	07:25
	17:02	17:41	18:13	19:47	20:18	20:38	20:30	19:53	19:02	18:12	16:37	16:34
22	07:22	06:48	06:03	06:48 (WTG 06)	06:12	05:37	05:27	05:45	06:16	06:47	07:19	07:26
	17:04	17:42	18:14	19:48	20:19	20:38	20:29	19:52	19:00	18:11	16:37	16:34
23	07:21	06:46	06:01	06:49 (WTG 06)	06:11	05:36	05:28	05:46	06:17	06:48	07:20	07:27
	17:05	17:43	18:15	19:49	20:20	20:38	20:28	19:50	18:58	18:08	16:36	16:35
24	07:20	06:45	05:59	06:49 (WTG 06)	06:09	05:35	05:28	05:47	06:18	06:49	07:21	07:28
	17:06	17:45	18:17	19:50	20:21	20:39	20:27	19:48	18:57	18:07	16:36	16:36
25	07:20	06:43	05:58	06:50 (WTG 06)	06:08	05:34	05:28	05:48	06:19	06:50	07:22	07:29
	17:07	17:46	18:18	19:51	20:22	20:39	20:26	19:47	18:55	18:06	16:35	16:36
26	07:19	06:42	05:56	06:53 (WTG 06)	06:06	05:34	05:29	05:49	06:20	06:52	07:23	07:30
	17:08	17:47	18:19	19:52	20:23	20:39	20:25	19:45	18:53	18:05	16:35	16:37
27	07:18	06:40	05:54	06:55 (WTG 06)	06:05	05:33	05:29	05:50	06:21	06:53	07:24	07:31
	17:10	17:48	18:20	19:53	20:24	20:39	20:24	19:44	18:51	18:03	16:34	16:37
28	07:17	06:39	05:53	06:56 (WTG 06)	06:04	05:32	05:29	05:51	06:22	06:54	07:25	07:32
	17:11	17:49	18:21	19:54	20:24	20:39	20:23	19:42	18:50	18:02	16:34	16:38
29	07:16		06:51	06:02	05:32	05:30	05:52	06:23	06:55	07:26	07:05	07:27
	17:12		19:22	19:56	20:25	20:39	20:22	19:41	18:48	17:59	16:33	16:39
30	07:16		06:49	06:01	05:31	05:30	05:53	06:24	06:56	07:27	07:06	07:27
	17:13		19:23	19:57	20:26	20:39	20:21	19:39	18:46	17:59	16:33	16:40
31	07:15		06:48		05:31		05:54	06:25		07:28	07:07	07:27
	17:15		19:24		20:27		20:20	19:37		18:00	16:34	16:40
Ore potenziali eliofanìa	296	297	369	399	449	454	460	429	375	345	297	287
Totale, caso peggiore			201						201			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 61 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (323)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:12 (WTG 06)	07:14	06:37	06:46				05:59	06:25 (WTG 04)	05:30	06:17 (WTG 05)
	16:41	37 08:49 (WTG 06)	17:16	17:51	19:25				19:58	64 19:35 (WTG 03)	20:28	106 19:57 (WTG 03)
2	07:27	08:12 (WTG 06)	07:13	06:36	06:44				05:58	06:24 (WTG 04)	05:30	06:18 (WTG 05)
	16:42	37 08:49 (WTG 06)	17:17	17:52	19:26				19:59	70 19:36 (WTG 03)	20:28	106 19:57 (WTG 03)
3	07:28	08:13 (WTG 06)	07:12	06:34	06:42				05:57	06:22 (WTG 04)	05:29	06:19 (WTG 05)
	16:43	37 08:50 (WTG 06)	17:18	17:53	19:27				20:00	74 19:36 (WTG 03)	20:29	104 19:57 (WTG 03)
4	07:28	08:13 (WTG 06)	07:11	06:32	06:41				05:56	06:22 (WTG 04)	05:29	06:20 (WTG 05)
	16:44	37 08:50 (WTG 06)	17:20	17:54	19:28				20:01	77 19:37 (WTG 03)	20:30	102 19:57 (WTG 03)
5	07:28	08:13 (WTG 06)	07:10	06:31	06:39				05:54	06:22 (WTG 04)	05:28	06:21 (WTG 05)
	16:45	38 08:51 (WTG 06)	17:21	17:55	19:30				20:02	81 19:39 (WTG 03)	20:30	99 19:56 (WTG 03)
6	07:28	08:14 (WTG 06)	07:08	06:29	06:37				05:53	06:21 (WTG 04)	05:28	06:22 (WTG 05)
	16:46	38 08:52 (WTG 06)	17:22	17:56	19:31				20:03	84 19:40 (WTG 03)	20:31	98 19:56 (WTG 03)
7	07:28	08:14 (WTG 06)	07:07	06:28	06:36				05:52	06:18 (WTG 05)	05:28	06:24 (WTG 04)
	16:47	38 08:52 (WTG 06)	17:24	17:58	19:32				20:04	90 19:41 (WTG 03)	20:32	97 19:57 (WTG 03)
8	07:27	08:14 (WTG 06)	07:06	06:26	06:34				05:51	06:16 (WTG 05)	05:28	06:24 (WTG 04)
	16:48	38 08:52 (WTG 06)	17:25	17:59	19:33				20:05	92 19:41 (WTG 03)	20:32	96 19:57 (WTG 03)
9	07:27	08:15 (WTG 06)	07:05	06:24	06:33				05:49	06:15 (WTG 05)	05:27	06:24 (WTG 04)
	16:49	38 08:53 (WTG 06)	17:26	18:00	19:34				20:06	96 19:42 (WTG 03)	20:33	94 19:56 (WTG 03)
10	07:27	08:15 (WTG 06)	07:04	06:23	06:31				05:48	06:14 (WTG 05)	05:27	06:24 (WTG 04)
	16:50	38 08:53 (WTG 06)	17:27	18:01	19:35				20:07	99 19:43 (WTG 03)	20:34	94 19:56 (WTG 03)
11	07:27	08:16 (WTG 06)	07:03	06:21	06:29				05:47	06:13 (WTG 05)	05:27	06:25 (WTG 04)
	16:51	38 08:54 (WTG 06)	17:29	18:02	19:36				20:08	101 19:44 (WTG 03)	20:34	92 19:56 (WTG 03)
12	07:27	08:16 (WTG 06)	07:01	06:20	06:28				05:46	06:12 (WTG 05)	05:27	06:25 (WTG 04)
	16:52	38 08:54 (WTG 06)	17:30	18:03	19:37				20:09	103 19:45 (WTG 03)	20:35	93 19:56 (WTG 03)
13	07:26	08:16 (WTG 06)	07:00	06:18	06:26				05:45	06:12 (WTG 05)	05:27	06:26 (WTG 04)
	16:53	38 08:54 (WTG 06)	17:31	18:04	19:38				20:10	105 19:46 (WTG 03)	20:35	91 19:56 (WTG 03)
14	07:26	08:16 (WTG 06)	06:59	06:16	06:24				05:44	06:11 (WTG 05)	05:27	06:26 (WTG 04)
	16:54	38 08:54 (WTG 06)	17:32	18:05	19:39				20:11	107 19:47 (WTG 03)	20:36	91 19:56 (WTG 03)
15	07:26	08:17 (WTG 06)	06:57	06:15	06:23				05:43	06:11 (WTG 05)	05:27	06:26 (WTG 04)
	16:55	38 08:55 (WTG 06)	17:34	18:07	19:40				20:12	108 19:48 (WTG 03)	20:36	90 19:56 (WTG 03)
16	07:25	08:17 (WTG 06)	06:56	06:13	06:21				05:42	06:11 (WTG 05)	05:27	06:27 (WTG 04)
	16:56	38 08:55 (WTG 06)	17:35	18:08	19:41				20:13	110 19:49 (WTG 03)	20:36	89 19:56 (WTG 03)
17	07:25	08:18 (WTG 06)	06:55	06:11	06:20				05:41	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:58	37 08:55 (WTG 06)	17:36	18:09	19:43				20:14	111 19:51 (WTG 03)	20:37	89 19:56 (WTG 03)
18	07:24	08:18 (WTG 06)	06:53	06:09	06:18				05:40	06:11 (WTG 05)	05:27	06:27 (WTG 04)
	16:59	37 08:55 (WTG 06)	17:37	18:10	19:44				20:15	112 19:51 (WTG 03)	20:37	88 19:56 (WTG 03)
19	07:24	08:20 (WTG 06)	06:52	06:08	06:17			06:52 (WTG 04)	05:39	06:11 (WTG 05)	05:27	06:27 (WTG 04)
	17:00	35 08:55 (WTG 06)	17:39	18:11	19:45	9	07:01 (WTG 04)	20:16	113 19:52 (WTG 03)	20:37	88 19:56 (WTG 03)	
20	07:23	08:20 (WTG 06)	06:51	06:06	06:15			06:45 (WTG 04)	05:38	06:11 (WTG 05)	05:27	06:28 (WTG 04)
	17:01	35 08:55 (WTG 06)	17:40	18:12	19:46	21	07:06 (WTG 04)	20:17	113 19:53 (WTG 03)	20:38	88 19:57 (WTG 03)	
21	07:22	08:20 (WTG 06)	06:49	06:04	06:14			06:42 (WTG 04)	05:37	06:11 (WTG 05)	05:27	06:28 (WTG 04)
	17:02	35 08:55 (WTG 06)	17:41	18:13	19:47	28	07:10 (WTG 04)	20:18	113 19:53 (WTG 03)	20:38	88 19:57 (WTG 03)	
22	07:22	08:22 (WTG 06)	06:48	06:03	06:12			06:38 (WTG 04)	05:37	06:12 (WTG 05)	05:27	06:28 (WTG 04)
	17:03	33 08:55 (WTG 06)	17:42	18:14	19:48	34	07:12 (WTG 04)	20:19	115 19:55 (WTG 03)	20:38	88 19:57 (WTG 03)	
23	07:21	08:22 (WTG 06)	06:46	06:01	06:11			06:30 (7)	05:36	06:12 (WTG 05)	05:28	06:28 (WTG 04)
	17:05	33 08:55 (WTG 06)	17:43	18:15	19:49	40	07:15 (WTG 04)	20:20	115 19:56 (WTG 03)	20:38	88 19:57 (WTG 03)	
24	07:20	08:23 (WTG 06)	06:45	05:59	06:09			06:28 (7)	05:35	06:12 (WTG 05)	05:28	06:29 (WTG 04)
	17:06	31 08:54 (WTG 06)	17:45	18:17	19:50	44	07:16 (WTG 04)	20:21	115 19:56 (WTG 03)	20:39	88 19:58 (WTG 03)	
25	07:20	08:24 (WTG 06)	06:43	05:58	06:08			06:27 (7)	05:34	06:12 (WTG 05)	05:28	06:29 (WTG 04)
	17:07	29 08:53 (WTG 06)	17:46	18:18	19:51	49	07:18 (WTG 04)	20:22	115 19:57 (WTG 03)	20:39	89 19:58 (WTG 03)	
26	07:19	08:26 (WTG 06)	06:42	05:56	06:06			06:25 (7)	05:34	06:13 (WTG 05)	05:28	06:29 (WTG 04)
	17:08	27 08:53 (WTG 06)	17:47	18:19	19:52	51	07:18 (WTG 04)	20:23	115 19:58 (WTG 03)	20:39	89 19:58 (WTG 03)	
27	07:18	08:27 (WTG 06)	06:40	05:54	06:05			06:29 (WTG 04)	05:33	06:13 (WTG 05)	05:29	06:29 (WTG 04)
	17:10	25 08:52 (WTG 06)	17:48	18:20	19:53	51	07:20 (WTG 04)	20:24	114 19:58 (WTG 03)	20:39	90 19:59 (WTG 03)	
28	07:17	08:29 (WTG 06)	06:39	05:53	06:04			06:28 (WTG 04)	05:32	06:15 (WTG 05)	05:29	06:29 (WTG 04)
	17:11	22 08:51 (WTG 06)	17:49	18:21	19:54	53	07:21 (WTG 04)	20:24	112 19:58 (WTG 03)	20:39	91 19:59 (WTG 03)	
29	07:16	08:30 (WTG 06)		06:51	06:02			06:26 (WTG 04)	05:32	06:15 (WTG 05)	05:30	06:29 (WTG 04)
	17:12	19 08:49 (WTG 06)		19:22	19:55	55	07:21 (WTG 04)	20:25	110 19:57 (WTG 03)	20:39	91 19:59 (WTG 03)	
30	07:16	08:33 (WTG 06)		06:49	06:01			06:25 (WTG 04)	05:31	06:16 (WTG 05)	05:30	06:29 (WTG 04)
	17:13	14 08:47 (WTG 06)		19:23	19:57	57	07:22 (WTG 04)	20:26	110 19:58 (WTG 03)	20:39	92 20:00 (WTG 03)	
31	07:15	08:37 (WTG 06)		06:47					05:31	06:16 (WTG 05)		
	17:15	6 08:43 (WTG 06)		19:24					20:27	108 19:57 (WTG 03)		
Ore potenziali eliofanìa	296		297	369	399				449		454	2789
Totale, caso peggiore	1022				492				3152			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 61 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (323)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:31 20:39	06:29 (WTG 04) 20:00 (WTG 03)	05:55 20:19	06:23 (WTG 05) 19:55 (WTG 03)	06:26 19:36	06:57 18:45	06:31 16:57	07:07 16:32	07:58 (WTG 06) 08:36 (WTG 06)
2	05:31 20:39	06:30 (WTG 04) 20:01 (WTG 03)	05:56 20:18	06:24 (WTG 05) 19:54 (WTG 03)	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32	07:58 (WTG 06) 08:36 (WTG 06)
3	05:32 20:38	06:29 (WTG 04) 20:01 (WTG 03)	05:57 20:17	06:25 (WTG 05) 19:53 (WTG 03)	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32	07:59 (WTG 06) 08:37 (WTG 06)
4	05:32 20:38	06:30 (WTG 04) 20:02 (WTG 03)	05:58 20:16	06:26 (WTG 05) 19:52 (WTG 03)	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32	07:59 (WTG 06) 08:37 (WTG 06)
5	05:33 20:38	06:29 (WTG 04) 20:02 (WTG 03)	05:59 20:15	06:27 (WTG 05) 19:51 (WTG 03)	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31	07:59 (WTG 06) 08:37 (WTG 06)
6	05:33 20:38	06:29 (WTG 04) 20:03 (WTG 03)	06:00 20:14	06:29 (WTG 05) 19:50 (WTG 03)	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31	08:00 (WTG 06) 08:38 (WTG 06)
7	05:34 20:37	06:28 (WTG 05) 20:03 (WTG 03)	06:01 20:12	06:31 (WTG 04) 19:49 (WTG 03)	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31	08:01 (WTG 06) 08:38 (WTG 06)
8	05:34 20:37	06:27 (WTG 05) 20:03 (WTG 03)	06:02 20:11	06:31 (WTG 04) 19:48 (WTG 03)	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31	08:01 (WTG 06) 08:38 (WTG 06)
9	05:35 20:37	06:26 (WTG 05) 20:04 (WTG 03)	06:03 20:10	06:32 (WTG 04) 19:47 (WTG 03)	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31	08:02 (WTG 06) 08:39 (WTG 06)
10	05:36 20:36	06:26 (WTG 05) 20:05 (WTG 03)	06:04 20:08	06:32 (WTG 04) 19:46 (WTG 03)	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31	08:01 (WTG 06) 08:38 (WTG 06)
11	05:37 20:36	06:25 (WTG 05) 20:05 (WTG 03)	06:05 20:07	06:33 (WTG 04) 19:44 (WTG 03)	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31	08:02 (WTG 06) 08:39 (WTG 06)
12	05:37 20:35	06:25 (WTG 05) 20:05 (WTG 03)	06:06 20:06	06:34 (WTG 04) 19:43 (WTG 03)	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31	08:03 (WTG 06) 08:39 (WTG 06)
13	05:38 20:35	06:24 (WTG 05) 20:06 (WTG 03)	06:07 20:04	06:34 (WTG 04) 19:42 (WTG 03)	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31	08:04 (WTG 06) 08:40 (WTG 06)
14	05:39 20:34	06:24 (WTG 05) 20:07 (WTG 03)	06:08 20:03	06:35 (WTG 04) 19:41 (WTG 03)	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32	08:04 (WTG 06) 08:40 (WTG 06)
15	05:40 20:34	06:23 (WTG 05) 20:06 (WTG 03)	06:09 20:02	06:36 (WTG 04) 19:40 (WTG 03)	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32	08:04 (WTG 06) 08:40 (WTG 06)
16	05:40 20:33	06:23 (WTG 05) 20:07 (WTG 03)	06:10 20:00	06:37 (WTG 04) 19:39 (WTG 03)	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32	08:05 (WTG 06) 08:41 (WTG 06)
17	05:41 20:33	06:23 (WTG 05) 20:07 (WTG 03)	06:11 19:59	06:37 (7) 19:09	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32	08:06 (WTG 06) 08:41 (WTG 06)
18	05:42 20:32	06:23 (WTG 05) 20:07 (WTG 03)	06:12 19:57	06:38 (7) 19:07	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33	08:06 (WTG 06) 08:41 (WTG 06)
19	05:43 20:31	06:22 (WTG 05) 20:06 (WTG 03)	06:13 19:56	06:39 (7) 19:05	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33	08:07 (WTG 06) 08:42 (WTG 06)
20	05:44 20:30	06:22 (WTG 05) 20:05 (WTG 03)	06:14 19:54	06:40 (7) 19:03	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34	08:07 (WTG 06) 08:42 (WTG 06)
21	05:45 20:30	06:22 (WTG 05) 20:05 (WTG 03)	06:15 19:53	06:41 (7) 19:02	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34	08:08 (WTG 06) 08:43 (WTG 06)
22	05:45 20:29	06:22 (WTG 05) 20:04 (WTG 03)	06:16 19:51	06:42 (7) 19:00	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34	08:08 (WTG 06) 08:43 (WTG 06)
23	05:46 20:28	06:22 (WTG 05) 20:04 (WTG 03)	06:17 19:50	06:43 (7) 18:58	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35	08:09 (WTG 06) 08:44 (WTG 06)
24	05:47 20:27	06:22 (WTG 05) 20:03 (WTG 03)	06:18 19:48	06:44 (7) 18:56	06:49 18:56	07:22 18:08	06:59 16:36	07:25 16:36	08:09 (WTG 06) 08:44 (WTG 06)
25	05:48 20:26	06:22 (WTG 05) 20:02 (WTG 03)	06:19 19:47	06:45 (7) 18:55	06:50 18:55	07:23 17:07	07:00 16:35	07:25 16:36	08:10 (WTG 06) 08:45 (WTG 06)
26	05:49 20:25	06:22 (WTG 05) 20:02 (WTG 03)	06:20 19:45	06:46 (7) 18:53	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37	08:10 (WTG 06) 08:45 (WTG 06)
27	05:50 20:24	06:21 (WTG 05) 20:00 (WTG 03)	06:21 19:44	06:52 (7) 18:51	06:53 18:51	07:25 17:04	07:02 16:34	07:26 16:37	08:10 (WTG 06) 08:46 (WTG 06)
28	05:51 20:23	06:22 (WTG 05) 19:59 (WTG 03)	06:22 19:42	06:53 (7) 18:50	06:54 18:50	07:26 17:02	07:03 16:34	07:26 16:38	08:10 (WTG 06) 08:46 (WTG 06)
29	05:52 20:22	06:22 (WTG 05) 19:58 (WTG 03)	06:23 19:41	06:54 (7) 18:48	06:55 18:48	07:27 17:01	07:04 16:33	07:27 16:39	08:11 (WTG 06) 08:47 (WTG 06)
30	05:53 20:21	06:22 (WTG 05) 19:57 (WTG 03)	06:24 19:39	06:55 (7) 18:46	06:56 18:46	07:28 17:00	07:05 16:33	07:27 16:40	08:11 (WTG 06) 08:48 (WTG 06)
31	05:54 20:20	06:23 (WTG 05) 19:56 (WTG 03)	06:25 19:37	06:56 (7) 19:37	06:57 19:37	07:29 16:59	07:06 16:59	07:27 16:40	08:12 (WTG 06) 08:48 (WTG 06)
Ore potenziali eliofanìa	460	429		375	345	297		287	
Totale, caso peggiore	3306	1499				610		1124	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 62 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (324)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:22 (WTG 06)	07:14	06:37	06:46				05:59	06:29 (WTG 04)	05:30	06:16 (WTG 05)
	16:41	40 09:02 (WTG 06)	17:16	17:51	19:25				19:58	83 19:35 (WTG 03)	20:28	104 19:43 (WTG 03)
2	07:27	08:23 (WTG 06)	07:13	06:36	06:44				05:58	06:29 (WTG 04)	05:30	06:16 (WTG 05)
	16:42	39 09:02 (WTG 06)	17:17	17:52	19:26				19:59	86 19:36 (WTG 03)	20:28	101 19:41 (WTG 03)
3	07:28	08:23 (WTG 06)	07:12	06:34	06:42				05:57	06:27 (WTG 04)	05:29	06:17 (WTG 05)
	16:43	40 09:03 (WTG 06)	17:18	17:53	19:27				20:00	90 19:36 (WTG 03)	20:29	98 19:41 (WTG 03)
4	07:28	08:24 (WTG 06)	07:11	06:32	06:41				05:56	06:26 (WTG 04)	05:29	06:18 (WTG 05)
	16:44	39 09:03 (WTG 06)	17:20	17:54	19:28				20:01	93 19:37 (WTG 03)	20:30	96 19:40 (WTG 03)
5	07:28	08:24 (WTG 06)	07:10	06:31	06:39				05:54	06:26 (WTG 04)	05:28	06:18 (WTG 05)
	16:45	40 09:04 (WTG 06)	17:21	17:55	19:30				20:02	97 19:39 (WTG 03)	20:30	92 19:38 (WTG 03)
6	07:28	08:25 (WTG 06)	07:08	06:29	06:37				05:53	06:25 (WTG 04)	05:28	06:19 (WTG 05)
	16:46	39 09:04 (WTG 06)	17:22	17:56	19:31				20:03	99 19:40 (WTG 03)	20:31	88 19:37 (WTG 03)
7	07:27	08:26 (WTG 06)	07:07	06:28	06:36				05:52	06:22 (WTG 05)	05:28	06:20 (WTG 05)
	16:47	39 09:05 (WTG 06)	17:24	17:58	19:32				20:04	104 19:41 (WTG 03)	20:32	84 19:36 (WTG 03)
8	07:27	08:25 (WTG 06)	07:06	06:26	06:34				05:51	06:18 (WTG 05)	05:28	06:21 (WTG 05)
	16:48	39 09:04 (WTG 06)	17:25	17:59	19:33				20:05	108 19:41 (WTG 03)	20:32	77 07:38 (WTG 04)
9	07:27	08:26 (WTG 06)	07:05	06:24	06:33				05:49	06:17 (WTG 05)	05:27	06:21 (WTG 05)
	16:49	39 09:05 (WTG 06)	17:26	18:00	19:34				20:06	112 19:42 (WTG 03)	20:33	76 07:37 (WTG 04)
10	07:27	08:27 (WTG 06)	07:04	06:23	06:31				05:48	06:16 (WTG 05)	05:27	06:22 (WTG 05)
	16:50	38 09:05 (WTG 06)	17:27	18:01	19:35				20:07	114 19:43 (WTG 03)	20:34	75 07:37 (WTG 04)
11	07:27	08:28 (WTG 06)	07:03	06:21	06:29				05:47	06:15 (WTG 05)	05:27	06:22 (WTG 05)
	16:51	38 09:06 (WTG 06)	17:29	18:02	19:36				20:08	116 19:44 (WTG 03)	20:34	75 07:37 (WTG 04)
12	07:27	08:28 (WTG 06)	07:01	06:20	06:28				05:46	06:14 (WTG 05)	05:27	06:23 (WTG 05)
	16:52	37 09:05 (WTG 06)	17:30	18:03	19:37				20:09	118 19:45 (WTG 03)	20:35	75 07:38 (WTG 04)
13	07:26	08:29 (WTG 06)	07:00	06:18	06:26				05:45	06:13 (WTG 05)	05:27	06:24 (WTG 05)
	16:53	37 09:06 (WTG 06)	17:31	18:04	19:38				20:10	121 19:46 (WTG 03)	20:35	74 07:38 (WTG 04)
14	07:26	08:29 (WTG 06)	06:59	06:16	06:24				05:44	06:13 (WTG 05)	05:27	06:25 (WTG 05)
	16:54	36 09:05 (WTG 06)	17:32	18:05	19:39				20:11	122 19:47 (WTG 03)	20:36	73 07:38 (WTG 04)
15	07:26	08:30 (WTG 06)	06:57	06:15	06:23				05:43	06:12 (WTG 05)	05:27	06:26 (WTG 04)
	16:55	35 09:05 (WTG 06)	17:34	18:07	19:40				20:12	123 19:48 (WTG 03)	20:36	72 07:38 (WTG 04)
16	07:25	08:30 (WTG 06)	06:56	06:13	06:21				05:42	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:56	35 09:05 (WTG 06)	17:35	18:08	19:41				20:13	124 19:49 (WTG 03)	20:36	71 07:38 (WTG 04)
17	07:25	08:32 (WTG 06)	06:55	06:11	06:20				05:41	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:58	33 09:05 (WTG 06)	17:36	18:09	19:43				20:14	125 19:50 (WTG 03)	20:37	71 07:38 (WTG 04)
18	07:24	08:32 (WTG 06)	06:53	06:09	06:18				05:40	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:59	32 09:04 (WTG 06)	17:37	18:10	19:44				20:15	125 19:50 (WTG 03)	20:37	71 07:38 (WTG 04)
19	07:24	08:34 (WTG 06)	06:52	06:08	06:17				05:39	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	17:00	31 09:05 (WTG 06)	17:39	18:11	19:45				20:16	124 19:49 (WTG 03)	20:37	71 07:38 (WTG 04)
20	07:23	08:35 (WTG 06)	06:51	06:06	06:15			06:52 (WTG 04)	05:38	06:12 (WTG 05)	05:27	06:28 (WTG 04)
	17:01	29 09:04 (WTG 06)	17:40	18:12	19:46		21	07:13 (WTG 04)	20:17	122 19:49 (WTG 03)	20:38	71 07:39 (WTG 04)
21	07:22	08:35 (WTG 06)	06:49	06:04	06:14			06:48 (WTG 04)	05:37	06:12 (WTG 05)	05:27	06:28 (WTG 04)
	17:02	28 09:03 (WTG 06)	17:41	18:13	19:47		29	07:17 (WTG 04)	20:18	121 19:48 (WTG 03)	20:38	71 07:39 (WTG 04)
22	07:22	08:37 (WTG 06)	06:48	06:03	06:12			06:45 (WTG 04)	05:37	06:12 (WTG 05)	05:27	06:28 (WTG 04)
	17:03	26 09:03 (WTG 06)	17:42	18:14	19:48		35	07:20 (WTG 04)	20:19	121 19:48 (WTG 03)	20:38	71 07:39 (WTG 04)
23	07:21	08:39 (WTG 06)	06:46	06:01	06:11			06:30 (7)	05:36	06:12 (WTG 05)	05:28	06:28 (WTG 04)
	17:05	22 09:01 (WTG 06)	17:43	18:15	19:49		42	07:22 (WTG 04)	20:20	121 19:48 (WTG 03)	20:38	71 07:39 (WTG 04)
24	07:20	08:40 (WTG 06)	06:45	05:59	06:09			06:28 (7)	05:35	06:12 (WTG 05)	05:28	06:29 (WTG 04)
	17:06	20 09:00 (WTG 06)	17:45	18:17	19:50		48	07:24 (WTG 04)	20:21	118 19:47 (WTG 03)	20:39	71 07:40 (WTG 04)
25	07:20	08:42 (WTG 06)	06:43	05:58	06:08			06:27 (7)	05:34	06:12 (WTG 05)	05:28	06:29 (WTG 04)
	17:07	16 08:58 (WTG 06)	17:46	18:18	19:51		52	07:26 (WTG 04)	20:22	117 19:46 (WTG 03)	20:39	71 07:40 (WTG 04)
26	07:19	08:47 (WTG 06)	06:42	05:56	06:06			06:25 (7)	05:34	06:13 (WTG 05)	05:28	06:29 (WTG 04)
	17:08	8 08:55 (WTG 06)	17:47	18:19	19:52		62	19:29 (WTG 03)	20:23	116 19:46 (WTG 03)	20:39	71 07:40 (WTG 04)
27	07:18		06:40	05:54	06:05			06:34 (WTG 04)	05:33	06:13 (WTG 05)	05:29	06:29 (WTG 05)
	17:10		17:48	18:20	19:53		63	19:30 (WTG 03)	20:24	113 19:45 (WTG 03)	20:39	72 07:41 (WTG 04)
28	07:17		06:39	05:53	06:04			06:33 (WTG 04)	05:32	06:14 (WTG 05)	05:29	06:28 (WTG 05)
	17:11		17:49	18:21	19:54		70	19:32 (WTG 03)	20:24	112 19:45 (WTG 03)	20:39	73 07:41 (WTG 04)
29	07:16			06:51	06:02			06:31 (WTG 04)	05:32	06:14 (WTG 05)	05:30	06:28 (WTG 05)
	17:12			19:22	19:55		74	19:32 (WTG 03)	20:25	110 19:44 (WTG 03)	20:39	73 07:41 (WTG 04)
30	07:16			06:49	06:01			06:30 (WTG 04)	05:31	06:15 (WTG 05)	05:30	06:28 (WTG 05)
	17:13			19:23	19:57		78	19:33 (WTG 03)	20:26	108 19:44 (WTG 03)	20:39	74 07:42 (WTG 04)
31	07:15			06:47					05:31	06:15 (WTG 05)		
	17:15			19:24					20:27	106 19:43 (WTG 03)		
Ore potenziali eliofanìa	296		297	369	399				449		454	
Totale, caso peggiore	855				574				3469		2333	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 62 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (324)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:31 20:39	06:27 (WTG 05) 07:42 (WTG 04)	05:55 20:19	06:25 (WTG 05) 19:55 (WTG 03)	06:26 19:36	06:57 18:45	06:31 16:57	07:07 16:32	08:10 (WTG 06) 08:48 (WTG 06)
2	05:31 20:38	06:27 (WTG 05) 07:42 (WTG 04)	05:56 20:18	06:26 (WTG 05) 19:54 (WTG 03)	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32	08:10 (WTG 06) 08:48 (WTG 06)
3	05:32 20:38	06:26 (WTG 05) 07:42 (WTG 04)	05:57 20:17	06:27 (WTG 05) 19:53 (WTG 03)	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32	08:10 (WTG 06) 08:49 (WTG 06)
4	05:32 20:38	06:26 (WTG 05) 07:43 (WTG 04)	05:58 20:16	06:28 (WTG 05) 19:52 (WTG 03)	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32	08:10 (WTG 06) 08:49 (WTG 06)
5	05:33 20:38	06:25 (WTG 05) 19:39 (WTG 03)	05:59 20:15	06:30 (WTG 05) 19:51 (WTG 03)	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31	08:11 (WTG 06) 08:50 (WTG 06)
6	05:33 20:38	06:25 (WTG 05) 19:43 (WTG 03)	06:00 20:14	06:33 (WTG 05) 19:50 (WTG 03)	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31	08:11 (WTG 06) 08:50 (WTG 06)
7	05:34 20:37	06:25 (WTG 05) 19:45 (WTG 03)	06:01 20:12	06:35 (WTG 04) 19:49 (WTG 03)	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31	08:11 (WTG 06) 08:51 (WTG 06)
8	05:34 20:37	06:24 (WTG 05) 19:46 (WTG 03)	06:02 20:11	06:36 (WTG 04) 19:48 (WTG 03)	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31	08:12 (WTG 06) 08:51 (WTG 06)
9	05:35 20:37	06:24 (WTG 05) 19:47 (WTG 03)	06:03 20:10	06:36 (WTG 04) 19:47 (WTG 03)	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31	08:12 (WTG 06) 08:52 (WTG 06)
10	05:36 20:36	06:24 (WTG 05) 19:49 (WTG 03)	06:04 20:08	06:37 (WTG 04) 19:46 (WTG 03)	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31	08:12 (WTG 06) 08:52 (WTG 06)
11	05:37 20:36	06:23 (WTG 05) 19:49 (WTG 03)	06:05 20:07	06:38 (WTG 04) 19:44 (WTG 03)	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31	08:12 (WTG 06) 08:52 (WTG 06)
12	05:37 20:35	06:23 (WTG 05) 19:51 (WTG 03)	06:06 20:06	06:38 (WTG 04) 19:43 (WTG 03)	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31	08:13 (WTG 06) 08:53 (WTG 06)
13	05:38 20:35	06:23 (WTG 05) 19:52 (WTG 03)	06:07 20:04	06:39 (WTG 04) 19:42 (WTG 03)	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31	08:14 (WTG 06) 08:53 (WTG 06)
14	05:39 20:34	06:22 (WTG 05) 19:52 (WTG 03)	06:08 20:03	06:40 (WTG 04) 19:41 (WTG 03)	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32	08:14 (WTG 06) 08:54 (WTG 06)
15	05:40 20:34	06:22 (WTG 05) 19:53 (WTG 03)	06:09 20:02	06:41 (WTG 04) 19:39 (WTG 03)	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32	08:14 (WTG 06) 08:54 (WTG 06)
16	05:40 20:33	06:23 (WTG 05) 19:54 (WTG 03)	06:10 20:00	06:34 (7) 19:38 (WTG 03)	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32	08:15 (WTG 06) 08:55 (WTG 06)
17	05:41 20:33	06:23 (WTG 05) 19:55 (WTG 03)	06:11 19:59	06:32 (7) 19:36 (WTG 03)	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32	08:16 (WTG 06) 08:55 (WTG 06)
18	05:42 20:32	06:23 (WTG 05) 19:56 (WTG 03)	06:12 19:57	06:33 (7) 07:31 (WTG 04)	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33	08:16 (WTG 06) 08:55 (WTG 06)
19	05:43 20:31	06:22 (WTG 05) 19:56 (WTG 03)	06:13 19:56	06:34 (7) 07:29 (WTG 04)	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33	08:16 (WTG 06) 08:56 (WTG 06)
20	05:44 20:30	06:22 (WTG 05) 19:57 (WTG 03)	06:14 19:54	06:35 (7) 07:27 (WTG 04)	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34	08:16 (WTG 06) 08:56 (WTG 06)
21	05:45 20:30	06:22 (WTG 05) 19:58 (WTG 03)	06:15 19:53	06:50 (WTG 04) 07:24 (WTG 04)	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34	08:17 (WTG 06) 08:57 (WTG 06)
22	05:45 20:29	06:22 (WTG 05) 19:58 (WTG 03)	06:16 19:51	06:53 (WTG 04) 07:21 (WTG 04)	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34	08:17 (WTG 06) 08:57 (WTG 06)
23	05:46 20:28	06:22 (WTG 05) 19:59 (WTG 03)	06:17 19:50	06:57 (WTG 04) 07:16 (WTG 04)	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35	08:18 (WTG 06) 08:58 (WTG 06)
24	05:47 20:27	06:22 (WTG 05) 19:59 (WTG 03)	06:18 19:48	06:49 18:56	06:49 18:56	07:22 18:08	06:59 16:36	07:25 16:35	08:18 (WTG 06) 08:58 (WTG 06)
25	05:48 20:26	06:23 (WTG 05) 20:00 (WTG 03)	06:19 19:47	06:50 18:55	06:50 18:55	07:23 17:07	07:00 16:35	07:25 16:36	08:19 (WTG 06) 08:59 (WTG 06)
26	05:49 20:25	06:23 (WTG 05) 20:00 (WTG 03)	06:20 19:45	06:51 18:53	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37	08:20 (WTG 06) 08:59 (WTG 06)
27	05:50 20:24	06:22 (WTG 05) 20:00 (WTG 03)	06:21 19:44	06:53 18:51	06:53 18:51	07:25 17:04	07:02 16:34	07:26 16:37	08:20 (WTG 06) 08:59 (WTG 06)
28	05:51 20:23	06:23 (WTG 05) 19:59 (WTG 03)	06:22 19:42	06:54 18:50	06:54 18:50	07:26 17:02	07:04 16:34	07:26 16:38	08:20 (WTG 06) 09:00 (WTG 06)
29	05:52 20:22	06:23 (WTG 05) 19:58 (WTG 03)	06:23 19:41	06:55 18:48	06:55 18:48	07:27 17:01	07:05 16:33	07:27 16:39	08:21 (WTG 06) 09:01 (WTG 06)
30	05:53 20:21	06:23 (WTG 05) 19:57 (WTG 03)	06:24 19:39	06:56 18:46	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:40	08:22 (WTG 06) 09:01 (WTG 06)
31	05:54 20:20	06:24 (WTG 05) 19:56 (WTG 03)	06:25 19:37	06:57 18:46	06:57 18:46	07:29 16:59	07:07 16:59	07:27 16:40	08:22 (WTG 06) 09:02 (WTG 06)
Ore potenziali eliofanìa	460	429		375	345	297		287	
Totale, caso peggiore	3311	1765				425		1224	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 63 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (374)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:20 (WTG 06)	07:14	06:37	06:46				05:59	06:28 (WTG 04)	05:30	06:14 (WTG 05)
	16:41	39 08:59 (WTG 06)	17:16	17:51	19:25				19:58	73 19:35 (WTG 03)	20:28	108 19:48 (WTG 03)
2	07:27	08:20 (WTG 06)	07:13	06:36	06:44				05:58	06:27 (WTG 04)	05:30	06:14 (WTG 05)
	16:42	40 09:00 (WTG 06)	17:17	17:52	19:26				19:59	77 19:36 (WTG 03)	20:28	106 19:47 (WTG 03)
3	07:28	08:21 (WTG 06)	07:12	06:34	06:42				05:57	06:26 (WTG 04)	05:29	06:15 (WTG 05)
	16:43	39 09:00 (WTG 06)	17:18	17:53	19:27				20:00	80 19:36 (WTG 03)	20:29	104 19:47 (WTG 03)
4	07:28	08:21 (WTG 06)	07:11	06:32	06:41				05:56	06:25 (WTG 04)	05:29	06:16 (WTG 05)
	16:44	40 09:01 (WTG 06)	17:20	17:54	19:28				20:01	83 19:37 (WTG 03)	20:30	103 19:47 (WTG 03)
5	07:28	08:22 (WTG 06)	07:10	06:31	06:39				05:54	06:24 (WTG 04)	05:28	06:16 (WTG 05)
	16:45	39 09:01 (WTG 06)	17:21	17:55	19:30				20:02	88 19:39 (WTG 03)	20:30	101 19:46 (WTG 03)
6	07:28	08:22 (WTG 06)	07:08	06:29	06:37				05:53	06:23 (WTG 04)	05:28	06:16 (WTG 05)
	16:46	40 09:02 (WTG 06)	17:22	17:56	19:31				20:03	92 19:40 (WTG 03)	20:31	101 19:46 (WTG 03)
7	07:27	08:23 (WTG 06)	07:07	06:28	06:36				05:52	06:23 (WTG 04)	05:28	06:17 (WTG 05)
	16:47	39 09:02 (WTG 06)	17:24	17:58	19:32				20:04	94 19:41 (WTG 03)	20:32	99 19:46 (WTG 03)
8	07:27	08:22 (WTG 06)	07:06	06:26	06:34				05:51	06:20 (WTG 05)	05:28	06:18 (WTG 05)
	16:48	40 09:02 (WTG 06)	17:25	17:59	19:33				20:05	97 19:41 (WTG 03)	20:32	96 19:45 (WTG 03)
9	07:27	08:23 (WTG 06)	07:05	06:24	06:33				05:49	06:17 (WTG 05)	05:27	06:18 (WTG 05)
	16:49	39 09:02 (WTG 06)	17:26	18:00	19:34				20:06	103 19:42 (WTG 03)	20:33	93 19:44 (WTG 03)
10	07:27	08:24 (WTG 06)	07:04	06:23	06:31				05:48	06:16 (WTG 05)	05:27	06:19 (WTG 05)
	16:50	39 09:03 (WTG 06)	17:27	18:01	19:35				20:07	105 19:43 (WTG 03)	20:34	92 19:44 (WTG 03)
11	07:27	08:25 (WTG 06)	07:03	06:21	06:29				05:47	06:14 (WTG 05)	05:27	06:19 (WTG 05)
	16:51	38 09:03 (WTG 06)	17:29	18:02	19:36				20:08	109 19:44 (WTG 03)	20:34	90 19:43 (WTG 03)
12	07:27	08:25 (WTG 06)	07:01	06:20	06:28				05:46	06:13 (WTG 05)	05:27	06:20 (WTG 05)
	16:52	38 09:03 (WTG 06)	17:30	18:03	19:37				20:09	111 19:45 (WTG 03)	20:35	88 19:43 (WTG 03)
13	07:26	08:26 (WTG 06)	07:00	06:18	06:26				05:45	06:13 (WTG 05)	05:27	06:21 (WTG 04)
	16:53	38 09:04 (WTG 06)	17:31	18:04	19:38				20:10	112 19:46 (WTG 03)	20:35	85 19:42 (WTG 03)
14	07:26	08:26 (WTG 06)	06:59	06:16	06:24				05:44	06:12 (WTG 05)	05:27	06:21 (WTG 05)
	16:54	37 09:03 (WTG 06)	17:32	18:05	19:39				20:11	114 19:47 (WTG 03)	20:36	84 19:42 (WTG 03)
15	07:26	08:27 (WTG 06)	06:57	06:15	06:23				05:43	06:11 (WTG 05)	05:27	06:22 (WTG 04)
	16:55	37 09:04 (WTG 06)	17:34	18:07	19:40				20:12	117 19:48 (WTG 03)	20:36	83 19:42 (WTG 03)
16	07:25	08:27 (WTG 06)	06:56	06:13	06:21				05:42	06:11 (WTG 05)	05:27	06:22 (WTG 04)
	16:56	36 09:03 (WTG 06)	17:35	18:08	19:41				20:13	118 19:49 (WTG 03)	20:36	82 19:41 (WTG 03)
17	07:25	08:28 (WTG 06)	06:55	06:11	06:20				05:41	06:11 (WTG 05)	05:27	06:22 (WTG 04)
	16:58	36 09:04 (WTG 06)	17:36	18:09	19:43				20:14	120 19:51 (WTG 03)	20:37	80 19:40 (WTG 03)
18	07:24	08:28 (WTG 06)	06:53	06:09	06:18				05:40	06:11 (WTG 05)	05:27	06:22 (WTG 04)
	16:59	35 09:03 (WTG 06)	17:37	18:10	19:44				20:15	120 19:51 (WTG 03)	20:37	79 19:40 (WTG 03)
19	07:24	08:30 (WTG 06)	06:52	06:08	06:17				05:39	06:11 (WTG 05)	05:27	06:23 (WTG 04)
	17:00	34 09:04 (WTG 06)	17:39	18:11	19:45				20:16	121 19:52 (WTG 03)	20:37	76 19:39 (WTG 03)
20	07:23	08:30 (WTG 06)	06:51	06:06	06:15				05:38	06:10 (WTG 05)	05:27	06:24 (WTG 04)
	17:01	33 09:03 (WTG 06)	17:40	18:12	19:46				20:17	122 19:52 (WTG 03)	20:38	76 19:40 (WTG 03)
21	07:22	08:31 (WTG 06)	06:49	06:04	06:14				05:37	06:10 (WTG 05)	05:27	06:24 (WTG 04)
	17:02	31 09:02 (WTG 06)	17:41	18:13	19:47				20:18	121 19:52 (WTG 03)	20:38	74 19:39 (WTG 03)
22	07:22	08:33 (WTG 06)	06:48	06:03	06:12			06:52 (WTG 04)	05:37	06:11 (WTG 05)	05:27	06:24 (WTG 04)
	17:03	29 09:02 (WTG 06)	17:42	18:14	19:48		12	07:04 (WTG 04)	20:19	120 19:52 (WTG 03)	20:38	76 19:40 (WTG 03)
23	07:21	08:34 (WTG 06)	06:46	06:01	06:11			06:46 (WTG 04)	05:36	06:11 (WTG 05)	05:28	06:24 (WTG 04)
	17:05	27 09:01 (WTG 06)	17:43	18:15	19:49		24	07:10 (WTG 04)	20:20	120 19:52 (WTG 03)	20:38	76 19:40 (WTG 03)
24	07:20	08:35 (WTG 06)	06:45	05:59	06:09			06:28 (7)	05:35	06:11 (WTG 05)	05:28	06:25 (WTG 04)
	17:06	25 09:00 (WTG 06)	17:45	18:17	19:50		33	07:13 (WTG 04)	20:21	119 19:51 (WTG 03)	20:39	77 19:41 (WTG 03)
25	07:20	08:36 (WTG 06)	06:43	05:58	06:08			06:27 (7)	05:34	06:11 (WTG 05)	05:28	06:24 (WTG 04)
	17:07	23 08:59 (WTG 06)	17:46	18:18	19:51		40	07:16 (WTG 04)	20:22	118 19:50 (WTG 03)	20:39	79 19:42 (WTG 03)
26	07:19	08:39 (WTG 06)	06:42	05:56	06:06			06:25 (7)	05:34	06:11 (WTG 05)	05:28	06:24 (WTG 04)
	17:08	19 08:58 (WTG 06)	17:47	18:19	19:52		45	07:17 (WTG 04)	20:23	117 19:51 (WTG 03)	20:39	81 19:43 (WTG 03)
27	07:18	08:41 (WTG 06)	06:40	05:54	06:05			06:24 (7)	05:33	06:11 (WTG 05)	05:29	06:25 (WTG 04)
	17:10	15 08:56 (WTG 06)	17:48	18:20	19:53		49	07:20 (WTG 04)	20:24	116 19:50 (WTG 03)	20:39	82 19:44 (WTG 03)
28	07:17	08:44 (WTG 06)	06:39	05:53	06:04			06:33 (WTG 04)	05:32	06:12 (WTG 05)	05:29	06:25 (WTG 04)
	17:11	9 08:53 (WTG 06)	17:49	18:21	19:54		54	19:32 (WTG 03)	20:24	115 19:50 (WTG 03)	20:39	83 19:45 (WTG 03)
29	07:16			06:51	06:02			06:31 (WTG 04)	05:32	06:12 (WTG 05)	05:30	06:24 (WTG 05)
	17:12			19:22	19:55		60	19:32 (WTG 03)	20:25	113 19:49 (WTG 03)	20:39	85 19:45 (WTG 03)
30	07:16			06:49	06:01			06:29 (WTG 04)	05:31	06:13 (WTG 05)	05:30	06:24 (WTG 05)
	17:13			19:23	19:57		67	19:33 (WTG 03)	20:26	112 19:49 (WTG 03)	20:39	88 19:47 (WTG 03)
31	07:15			06:47					05:31	06:13 (WTG 05)		
	17:15			19:24					20:27	110 19:48 (WTG 03)		
Ore potenziali eliofanìa	296		297	369	399				449		454	2627
Totale, caso peggiore	934				384				3337			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 63 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (374)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	06:24 (WTG 05) 19:47 (WTG 03)	05:55 20:19	06:24 (WTG 05) 19:55 (WTG 03)	06:26 18:45	06:31 16:57
2	05:31 20:38	06:24 (WTG 05) 19:49 (WTG 03)	05:56 20:18	06:25 (WTG 05) 19:54 (WTG 03)	06:27 18:43	06:33 16:56
3	05:32 20:38	06:23 (WTG 05) 19:49 (WTG 03)	05:57 20:17	06:27 (WTG 05) 19:53 (WTG 03)	06:28 18:41	06:34 16:55
4	05:32 20:38	06:23 (WTG 05) 19:50 (WTG 03)	05:58 20:16	06:29 (WTG 05) 19:52 (WTG 03)	06:29 18:39	06:35 16:54
5	05:33 20:38	06:23 (WTG 05) 19:51 (WTG 03)	05:59 20:15	06:31 (WTG 05) 19:51 (WTG 03)	06:30 18:38	06:36 16:52
6	05:33 20:38	06:23 (WTG 05) 19:52 (WTG 03)	06:00 20:14	06:33 (WTG 04) 19:50 (WTG 03)	06:31 18:36	06:38 16:51
7	05:34 20:37	06:23 (WTG 05) 19:53 (WTG 03)	06:01 20:12	06:33 (WTG 04) 19:49 (WTG 03)	06:32 18:34	06:39 16:50
8	05:34 20:37	06:22 (WTG 05) 19:53 (WTG 03)	06:02 20:11	06:34 (WTG 04) 19:48 (WTG 03)	06:33 18:33	06:40 16:49
9	05:35 20:37	06:22 (WTG 05) 19:54 (WTG 03)	06:03 20:10	06:35 (WTG 04) 19:47 (WTG 03)	06:34 18:31	06:41 16:48
10	05:36 20:36	06:22 (WTG 05) 19:55 (WTG 03)	06:04 20:08	06:36 (WTG 04) 19:46 (WTG 03)	06:35 18:30	06:42 16:47
11	05:37 20:36	06:21 (WTG 05) 19:55 (WTG 03)	06:05 20:07	06:36 (WTG 04) 19:44 (WTG 03)	06:36 18:28	06:44 16:46
12	05:37 20:35	06:21 (WTG 05) 19:56 (WTG 03)	06:06 20:06	06:37 (WTG 04) 19:43 (WTG 03)	06:37 18:26	06:45 16:45
13	05:38 20:35	06:22 (WTG 05) 19:57 (WTG 03)	06:07 20:04	06:39 (WTG 04) 19:42 (WTG 03)	06:38 18:25	06:46 16:44
14	05:39 20:34	06:22 (WTG 05) 19:58 (WTG 03)	06:08 20:03	06:40 (WTG 04) 19:41 (WTG 03)	06:39 18:23	06:47 16:43
15	05:40 20:34	06:21 (WTG 05) 19:58 (WTG 03)	06:09 20:02	06:41 (WTG 04) 19:39 (WTG 03)	06:40 18:22	06:48 16:42
16	05:40 20:33	06:21 (WTG 05) 19:59 (WTG 03)	06:10 20:00	06:32 (7) 19:39 (WTG 03)	06:41 18:20	06:50 16:41
17	05:41 20:33	06:21 (WTG 05) 20:00 (WTG 03)	06:11 19:59	06:32 (7) 07:24 (WTG 04)	06:42 18:18	06:51 16:40
18	05:42 20:32	06:21 (WTG 05) 20:01 (WTG 03)	06:12 19:57	06:33 (7) 07:21 (WTG 04)	06:43 18:17	06:52 16:40
19	05:43 20:31	06:20 (WTG 05) 20:00 (WTG 03)	06:13 19:56	06:34 (7) 07:18 (WTG 04)	06:44 18:15	06:53 16:39
20	05:44 20:30	06:20 (WTG 05) 20:01 (WTG 03)	06:14 19:54	06:52 (WTG 04) 07:14 (WTG 04)	06:45 18:14	06:54 16:38
21	05:45 20:30	06:20 (WTG 05) 20:01 (WTG 03)	06:15 19:53	06:58 (WTG 04) 07:07 (WTG 04)	06:46 18:12	06:56 16:37
22	05:45 20:29	06:21 (WTG 05) 20:02 (WTG 03)	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37
23	05:46 20:28	06:21 (WTG 05) 20:02 (WTG 03)	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36
24	05:47 20:27	06:21 (WTG 05) 20:03 (WTG 03)	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:36
25	05:48 20:26	06:21 (WTG 05) 20:02 (WTG 03)	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35
26	05:49 20:25	06:22 (WTG 05) 20:02 (WTG 03)	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34
27	05:50 20:24	06:21 (WTG 05) 20:00 (WTG 03)	06:21 19:44	06:53 18:51	07:25 17:04	07:02 16:34
28	05:51 20:23	06:22 (WTG 05) 19:59 (WTG 03)	06:22 19:42	06:54 18:50	07:26 17:02	07:04 16:34
29	05:52 20:22	06:22 (WTG 05) 19:58 (WTG 03)	06:23 19:41	06:55 18:48	07:27 17:01	07:05 16:33
30	05:53 20:21	06:23 (WTG 05) 19:57 (WTG 03)	06:24 19:39	06:56 18:46	07:28 17:00	07:06 16:33
31	05:54 20:20	06:24 (WTG 05) 19:56 (WTG 03)	06:25 19:37	06:57 16:59	07:29 16:59	07:07 16:40
Ore potenziali eliofanìa	460	429		375	345	297
Totale, caso peggiore	3420	1464			502	1219

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 64 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (325)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	16:52 (WTG 03) 17:06 (WTG 03)	06:46 19:25	05:59 19:58
2	07:27 16:42	07:13 17:17	06:36 17:52	07:19 (WTG 05) 17:02 (WTG 03)	06:44 19:26	05:58 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	07:15 (WTG 05) 07:34 (WTG 05)	06:42 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	06:32 17:54	07:13 (WTG 05) 07:36 (WTG 05)	06:41 19:28	05:56 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	06:51 (7) 07:37 (WTG 05)	06:39 19:30	05:54 20:02
6	07:28 16:46	07:08 17:22	06:29 17:56	06:50 (7) 07:38 (WTG 05)	06:37 19:31	05:53 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58	06:50 (7) 07:39 (WTG 05)	06:36 19:32	05:52 20:04
8	07:27 16:48	07:06 17:25	06:26 17:59	06:49 (7) 07:39 (WTG 05)	06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	06:24 18:00	06:50 (7) 07:39 (WTG 05)	06:33 19:34	05:49 20:06
10	07:27 16:50	07:04 17:27	06:23 18:01	07:07 (WTG 05) 07:40 (WTG 05)	06:31 19:35	05:48 20:07
11	07:27 16:51	07:03 17:29	06:21 18:02	07:06 (WTG 05) 07:39 (WTG 05)	06:29 19:36	05:47 20:08
12	07:27 16:52	07:01 17:30	06:19 18:03	07:05 (WTG 05) 07:39 (WTG 05)	06:28 19:37	05:46 20:09
13	07:26 16:53	07:00 17:31	06:18 18:04	07:06 (WTG 05) 07:39 (WTG 05)	06:26 19:38	05:45 20:10
14	07:26 16:54	06:59 17:32	06:16 18:05	07:05 (WTG 05) 07:38 (WTG 05)	06:24 19:39	05:44 20:11
15	07:26 16:55	06:57 17:34	06:15 18:07	07:05 (WTG 05) 07:37 (WTG 05)	06:23 19:40	05:43 20:12
16	07:25 16:56	06:56 17:35	06:13 18:08	07:06 (WTG 05) 07:37 (WTG 05)	06:21 19:41	05:42 20:13
17	07:25 16:58	06:55 17:36	06:11 18:09	07:06 (WTG 05) 07:35 (WTG 05)	06:20 19:43	05:41 20:14
18	07:24 16:59	06:53 17:37	06:09 18:10	07:06 (WTG 05) 07:34 (WTG 05)	06:18 19:44	05:40 20:15
19	07:24 17:00	06:52 17:39	06:08 18:11	07:07 (WTG 05) 07:32 (WTG 05)	06:17 19:45	05:39 20:16
20	07:23 17:01	06:51 17:40	06:06 18:12	07:09 (WTG 05) 07:31 (WTG 05)	06:15 19:46	05:38 20:17
21	07:22 17:02	06:49 17:41	06:04 18:13	07:11 (WTG 05) 07:28 (WTG 05)	06:14 19:47	05:37 20:18
22	07:22 17:03	06:48 17:42	06:03 18:14	07:13 (WTG 05) 07:24 (WTG 05)	06:12 19:48	05:37 20:19
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	19:43 (WTG 02) 20:18
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	19:43 (WTG 02) 20:19
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	19:43 (WTG 02) 20:20
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	19:44 (WTG 02) 20:21
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	19:45 (WTG 02) 20:22
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:25	19:46 (WTG 02) 20:23
29	07:16 17:12		06:51 19:22	06:02 19:55	05:32 20:26	19:47 (WTG 02) 20:24
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:27	19:49 (WTG 02) 20:25
31	07:15 17:15		06:47 19:24		05:31 20:27	19:51 (WTG 02) 20:26
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		483	619		206	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

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Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 64 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (325)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30	05:55	06:26	06:57	06:31	07:07
	20:39	20:19	19:52 (WTG 02)	18:44	07:45 (WTG 05)	16:22 (WTG 03)
2	05:31	05:56	06:27	06:58	06:33	07:08
	20:39	20:18	19:53 (WTG 02)	18:43	07:44 (WTG 05)	16:32 (WTG 03)
3	05:31	05:57	06:28	06:59	06:34	07:09
	20:38	20:17	19:54 (WTG 02)	18:41	07:44 (WTG 05)	16:32 (WTG 03)
4	05:32	05:58	06:29	07:00	06:35	07:10
	20:38	20:16	19:31	18:39	07:28 (7)	16:32 (WTG 03)
5	05:33	05:59	06:30	07:01	06:36	07:11
	20:38	20:15	19:29	18:38	08:16 (WTG 05)	16:31
6	05:33	06:00	06:31	07:02	06:38	07:12
	20:38	20:14	19:27	18:36	07:25 (7)	16:31
7	05:34	06:01	06:32	07:03	06:39	07:13
	20:37	20:12	19:26	18:34	08:14 (WTG 05)	16:31
8	05:34	06:02	06:33	07:04	06:40	07:14
	20:37	20:11	19:24	18:33	07:25 (7)	16:31
9	05:35	06:03	06:34	07:05	06:41	07:15
	20:37	20:10	19:22	18:31	08:12 (WTG 05)	16:31
10	05:36	06:04	06:35	07:06	06:42	07:16
	20:36	20:08	19:21	18:30	07:49 (WTG 05)	16:31
11	05:37	06:05	06:36	07:07	06:44	07:16
	20:36	20:07	19:19	18:28	08:07 (WTG 05)	16:31
12	05:37	06:06	06:37	07:08	06:45	07:17
	20:35	20:06	19:17	18:26	07:54 (WTG 05)	16:31
13	05:38	06:07	06:38	07:10	06:46	07:18
	20:35	20:05 (WTG 02)	19:15	18:25	17:38 (WTG 03)	16:31
14	05:39	06:08	06:39	07:11	06:47	07:19
	20:34	20:06 (WTG 02)	19:14	18:23	17:22 (WTG 03)	16:32 (WTG 03)
15	05:40	06:09	06:40	07:12	06:48	07:20
	20:34	20:08 (WTG 02)	19:12	18:22	17:44 (WTG 03)	16:32 (WTG 03)
16	05:40	06:10	06:41	07:13	06:50	07:20
	20:33	20:08 (WTG 02)	19:10	18:20	17:20 (WTG 03)	16:32 (WTG 03)
17	05:41	06:11	06:42	07:14	06:51	07:21
	20:33	20:08 (WTG 02)	19:09	18:18	17:18 (WTG 03)	16:32 (WTG 03)
18	05:42	06:12	06:43	07:15	06:52	07:22
	20:32	20:07 (WTG 02)	19:07	18:17	17:17 (WTG 03)	16:33 (WTG 03)
19	05:43	06:13	06:44	07:16	06:53	07:22
	20:31	20:06 (WTG 02)	19:05	18:15	17:16 (WTG 03)	16:33 (WTG 03)
20	05:44	06:14	06:45	07:17	06:54	07:23
	20:30	20:05 (WTG 02)	19:03	18:14	17:16 (WTG 03)	16:33 (WTG 03)
21	05:44	06:15	06:46	07:19	06:56	07:23
	20:30	20:05 (WTG 02)	19:02	18:12	17:15 (WTG 03)	16:33 (WTG 03)
22	05:45	06:16	06:47	07:20	06:57	07:24
	20:29	20:04 (WTG 02)	19:00	18:11	17:15 (WTG 03)	16:34 (WTG 03)
23	05:46	06:17	06:48	07:21	06:58	07:24
	20:28	20:04 (WTG 02)	18:58	18:09	17:15 (WTG 03)	16:34 (WTG 03)
24	05:47	06:18	06:49	07:22	06:59	07:25
	20:27	20:03 (WTG 02)	18:56	18:08	17:15 (WTG 03)	16:35 (WTG 03)
25	05:48	06:19	06:50	07:23	07:00	07:25
	20:26	20:02 (WTG 02)	18:55	18:07	16:15 (WTG 03)	16:36 (WTG 03)
26	05:49	06:20	06:51	07:24	07:01	07:26
	20:25	20:01 (WTG 02)	18:53	18:06	16:16 (WTG 03)	16:37 (WTG 03)
27	05:50	06:21	06:52	07:25	07:02	07:26
	20:24	20:00 (WTG 02)	18:51	18:05	16:16 (WTG 03)	16:37 (WTG 03)
28	05:51	06:22	06:54	07:27	07:04	07:26
	20:23	19:59 (WTG 02)	18:50	18:04	16:17 (WTG 03)	16:38 (WTG 03)
29	05:52	06:23	06:55	07:28	07:05	07:27
	20:22	19:58 (WTG 02)	18:48	18:03	16:17 (WTG 03)	16:39 (WTG 03)
30	05:53	06:24	06:56	07:29	07:06	07:27
	20:21	19:57 (WTG 02)	18:46	18:02	16:19 (WTG 03)	16:39 (WTG 03)
31	05:54	06:25		06:30	16:33	07:27
	20:20	19:56 (WTG 02)		16:58	16:20 (WTG 03)	16:40
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore	198	4	249	858	18	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 65 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (375)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:24 (WTG 05) 17:05 (WTG 03)	06:46 19:25	05:59 19:58
2	07:27 16:42	07:13 17:17	06:36 17:52	07:18 (WTG 05) 07:32 (WTG 05)	06:44 19:26	05:58 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	07:15 (WTG 05) 07:34 (WTG 05)	06:42 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	06:32 17:54	07:13 (WTG 05) 07:36 (WTG 05)	06:41 19:28	05:56 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	07:34 (WTG 05) 07:37 (WTG 05)	06:39 19:30	05:54 20:02
6	07:28 16:46	07:08 17:22	06:29 17:56	06:50 (7) 07:38 (WTG 05)	06:37 19:31	05:53 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58	06:50 (7) 07:39 (WTG 05)	06:36 19:32	05:52 20:04
8	07:27 16:48	07:06 17:25	06:26 17:59	06:49 (7) 07:39 (WTG 05)	06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	06:24 18:00	06:50 (7) 07:39 (WTG 05)	06:33 19:34	05:49 20:06
10	07:27 16:50	07:04 17:27	06:23 18:01	07:07 (WTG 05) 07:40 (WTG 05)	06:31 19:35	05:48 20:07
11	07:27 16:51	07:03 17:29	06:21 18:02	07:06 (WTG 05) 07:39 (WTG 05)	06:29 19:36	05:47 20:08
12	07:27 16:52	07:01 17:30	06:19 18:03	07:05 (WTG 05) 07:39 (WTG 05)	06:28 19:37	05:46 20:09
13	07:26 16:53	07:00 17:31	06:18 18:04	07:06 (WTG 05) 07:39 (WTG 05)	06:26 19:38	05:45 20:10
14	07:26 16:54	06:59 17:32	06:16 18:05	07:05 (WTG 05) 07:38 (WTG 05)	06:24 19:39	05:44 20:11
15	07:26 16:55	06:57 17:34	06:15 18:07	07:05 (WTG 05) 07:37 (WTG 05)	06:23 19:40	05:43 20:12
16	07:25 16:56	06:56 17:35	06:13 18:08	07:06 (WTG 05) 07:37 (WTG 05)	06:21 19:41	05:42 20:13
17	07:25 16:58	06:55 17:36	06:11 18:09	07:06 (WTG 05) 07:35 (WTG 05)	06:20 19:43	05:41 20:14
18	07:24 16:59	06:53 17:37	06:09 18:10	07:07 (WTG 05) 07:34 (WTG 05)	06:18 19:44	05:40 20:15
19	07:24 17:00	06:52 17:39	06:08 18:11	07:07 (WTG 05) 07:32 (WTG 05)	06:17 19:45	05:39 20:16
20	07:23 17:01	06:51 17:40	06:06 18:12	07:10 (WTG 05) 07:30 (WTG 05)	06:15 19:46	05:38 20:17
21	07:22 17:02	06:49 17:41	06:04 18:13	07:11 (WTG 05) 07:27 (WTG 05)	06:14 19:47	05:37 20:18
22	07:22 17:03	06:48 17:42	06:03 18:14	07:14 (WTG 05) 07:23 (WTG 05)	06:12 19:48	05:37 20:19
23	07:21 17:05	06:46 17:43	06:01 18:15	07:23 (WTG 05) 19:49	06:11 20:20	05:36 20:21
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:35 20:22
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:34 20:23
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:34 20:24
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:33 20:25
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24	05:32 20:25
29	07:16 17:12		06:51 19:22	06:02 19:55	05:32 20:25	05:32 20:26
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:31 20:27
31	07:15 17:15		06:47 19:24		05:31 20:27	05:31 20:28
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		487	611		203	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 65 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (375)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30	05:55	06:26	06:57	06:31	07:07
	20:39	20:19	19:52 (WTG 02)	18:44	07:45 (WTG 05)	16:21 (WTG 03)
2	05:31	05:56	06:27	06:58	06:33	07:08
	20:39	20:18	19:53 (WTG 02)	18:43	07:44 (WTG 05)	16:23 (WTG 03)
3	05:31	05:57	06:28	06:59	06:34	07:09
	20:38	20:17	19:54 (WTG 02)	18:41	07:44 (WTG 05)	16:32 (WTG 03)
4	05:32	05:58	06:29	07:00	06:35	07:10
	20:38	20:16	19:31	18:39	07:29 (7)	16:32
5	05:33	05:59	06:30	07:01	06:36	07:11
	20:38	20:15	19:29	18:38	08:16 (WTG 05)	16:31
6	05:33	06:00	06:31	07:02	06:38	07:12
	20:38	20:14	19:27	18:36	07:25 (7)	16:31
7	05:34	06:01	06:32	07:03	06:39	07:13
	20:37	20:12	19:26	18:34	08:14 (WTG 05)	16:31
8	05:34	06:02	06:33	07:04	06:40	07:14
	20:37	20:11	19:24	18:33	07:25 (7)	16:31
9	05:35	06:03	06:34	07:05	06:41	07:15
	20:37	20:10	19:22	18:31	07:27 (7)	16:31
10	05:36	06:04	06:35	07:06	06:42	07:16
	20:36	20:08	19:21	18:30	08:12 (WTG 05)	16:31
11	05:37	06:05	06:36	07:07	06:44	07:16
	20:36	20:07	19:19	18:28	07:50 (WTG 05)	16:31
12	05:37	06:06	06:37	07:08	06:45	07:17
	20:35	20:06	19:17	18:26	08:07 (WTG 05)	16:31
13	05:38	06:07	06:38	07:10	06:46	07:18
	20:35	20:05 (WTG 02)	19:15	18:25	07:53 (WTG 05)	16:31
14	05:39	06:08	06:39	07:11	06:47	07:19
	20:34	20:06 (WTG 02)	19:14	18:23	17:25 (WTG 03)	16:32
15	05:40	06:09	06:40	07:12	06:48	07:20
	20:34	20:07 (WTG 02)	19:12	18:22	17:40 (WTG 03)	16:32
16	05:40	06:10	06:41	07:13	06:50	07:20
	20:33	20:08 (WTG 02)	19:10	18:20	17:43 (WTG 03)	16:32
17	05:41	06:11	06:42	07:14	06:51	07:21
	20:33	20:08 (WTG 02)	19:09	18:18	17:18 (WTG 03)	16:32
18	05:42	06:12	06:43	07:15	06:52	07:22
	20:32	20:07 (WTG 02)	19:07	18:17	17:46 (WTG 03)	16:33
19	05:43	06:13	06:44	07:16	06:53	07:22
	20:31	20:06 (WTG 02)	19:05	18:15	17:16 (WTG 03)	16:33
20	05:44	06:14	06:45	07:17	06:54	07:23
	20:30	20:05 (WTG 02)	19:03	18:14	17:46 (WTG 03)	16:33
21	05:44	06:15	06:46	07:19	06:56	07:23
	20:30	20:05 (WTG 02)	19:02	18:12	17:15 (WTG 03)	16:33
22	05:45	06:16	06:47	07:20	06:57	07:24
	20:29	20:04 (WTG 02)	19:00	18:11	17:46 (WTG 03)	16:34
23	05:46	06:17	06:48	07:21	06:58	07:24
	20:28	20:04 (WTG 02)	18:58	18:09	17:15 (WTG 03)	16:34
24	05:47	06:18	06:49	07:22	06:59	07:25
	20:27	20:03 (WTG 02)	18:56	18:08	17:46 (WTG 03)	16:35
25	05:48	06:19	06:50	07:23	07:00	07:25
	20:26	20:02 (WTG 02)	18:55	18:07	16:15 (WTG 03)	16:36
26	05:49	06:20	06:51	07:24	07:01	07:26
	20:25	20:01 (WTG 02)	18:53	18:05	16:43 (WTG 03)	16:37
27	05:50	06:21	06:52	07:26	07:02	07:26
	20:24	20:00 (WTG 02)	18:51	18:04	16:42 (WTG 03)	16:37
28	05:51	06:22	06:54	07:27	07:04	07:26
	20:23	19:59 (WTG 02)	18:50	18:02	16:16 (WTG 03)	16:38
29	05:52	06:23	06:55	07:28	07:05	07:27
	20:22	19:58 (WTG 02)	18:48	18:01	16:37 (WTG 03)	16:39
30	05:53	06:24	06:56	07:29	07:06	07:27
	20:21	19:57 (WTG 02)	18:46	18:00	16:18 (WTG 03)	16:39
31	05:54	06:25		06:30	16:33	07:27
	20:20	19:56 (WTG 02)		16:59	16:20 (WTG 03)	16:40
Ore potenziali eliofania	460			345	297	286
Totale, caso peggiore	198	429	375	241	856	21

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 66 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (376)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:17 (WTG 05) 19:25	05:59 19:58	05:30 20:28
2	07:27 16:42	07:13 17:17	06:36 17:52	07:15 (WTG 05) 19:26	05:58 19:59	05:28 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	07:37 (WTG 05) 19:26 06:54 (7)	06:42 05:57	05:29 05:29
4	07:28 16:44	07:11 17:20	06:32 17:54	07:38 (WTG 05) 19:27 06:53 (7)	06:41 05:56	05:29 05:29
5	07:28 16:45	07:10 17:21	06:31 17:55	07:40 (WTG 05) 19:28 06:51 (7)	06:39 05:54	05:28 05:28
6	07:28 16:46	07:08 17:22	16:54 (WTG 03) 06:29	07:40 (WTG 05) 19:31 06:51 (7)	06:37 05:53	05:28 05:28
7	07:28 16:47	07:07 17:24	16:51 (WTG 03) 06:28	07:41 (WTG 05) 19:32 06:51 (7)	06:36 05:52	05:28 05:28
8	07:27 16:48	07:06 17:25	17:00 (WTG 03) 17:58	07:41 (WTG 05) 19:33 06:52 (7)	06:34 05:51	05:28 05:28
9	07:27 16:49	07:05 17:26	16:47 (WTG 03) 06:24	07:08 (WTG 05) 06:33	05:49	05:27
10	07:27 16:50	07:04 17:27	17:03 (WTG 03) 18:00	07:41 (WTG 05) 19:34 07:08 (WTG 05)	06:33 20:06	05:27 20:33
11	07:27 16:51	07:03 17:29	16:47 (WTG 03) 06:23	07:08 (WTG 05) 06:31	05:48	19:41 (WTG 02) 05:27
12	07:27 16:52	07:01 17:30	17:05 (WTG 03) 18:01	07:41 (WTG 05) 19:35 07:07 (WTG 05)	06:29 05:47	2 19:43 (WTG 02) 20:34
13	07:26 16:53	07:00 17:31	16:45 (WTG 03) 06:21	07:07 (WTG 05) 06:29	05:47	19:40 (WTG 02) 05:27
14	07:26 16:54	06:59 17:32	17:05 (WTG 03) 18:02	07:40 (WTG 05) 19:36 07:08 (WTG 05)	06:28 05:46	4 19:44 (WTG 02) 20:34
15	07:26 16:55	06:57 17:34	16:44 (WTG 03) 06:19	07:07 (WTG 05) 06:28	05:46	19:40 (WTG 02) 05:27
16	07:25 16:56	06:56 17:35	17:07 (WTG 03) 18:03	07:40 (WTG 05) 19:37 07:08 (WTG 05)	06:24 05:44	5 19:45 (WTG 02) 20:35
17	07:25 16:58	06:55 17:36	16:44 (WTG 03) 06:18	07:08 (WTG 05) 06:26	05:45	19:40 (WTG 02) 05:27
18	07:24 16:59	06:53 17:37	17:09 (WTG 03) 18:04	07:40 (WTG 05) 19:38 07:08 (WTG 05)	06:24 05:44	6 19:46 (WTG 02) 20:35
19	07:24 17:00	06:52 17:39	16:43 (WTG 03) 06:16	07:08 (WTG 05) 06:24	05:44	19:39 (WTG 02) 05:27
20	07:23 17:01	06:51 17:40	17:09 (WTG 03) 18:05	07:38 (WTG 05) 19:39 07:08 (WTG 05)	06:23 05:43	8 19:47 (WTG 02) 20:36
21	07:22 17:02	06:49 17:41	16:43 (WTG 03) 06:15	07:08 (WTG 05) 06:23	05:43	19:39 (WTG 02) 05:27
22	07:22 17:03	06:48 17:42	17:11 (WTG 03) 18:07	07:37 (WTG 05) 19:40 07:09 (WTG 05)	06:21 05:42	9 19:48 (WTG 02) 20:36
23	07:21 17:05	06:46 17:43	16:43 (WTG 03) 06:13	07:09 (WTG 05) 06:21	05:42	19:39 (WTG 02) 05:27
24	07:20 17:06	06:45 17:45	17:13 (WTG 03) 18:08	07:36 (WTG 05) 19:41 07:10 (WTG 05)	06:20 05:41	10 19:49 (WTG 02) 20:36
25	07:20 17:07	06:43 17:46	16:42 (WTG 03) 06:11	07:10 (WTG 05) 06:20	05:41	19:40 (WTG 02) 05:27
26	07:19 17:08	06:42 17:47	17:13 (WTG 03) 18:09	07:34 (WTG 05) 19:43 07:11 (WTG 05)	06:18 05:40	11 19:51 (WTG 02) 20:37
27	07:18 17:10	06:40 17:48	16:43 (WTG 03) 06:09	07:11 (WTG 05) 06:18	05:40	19:40 (WTG 02) 05:27
28	07:17 17:11	06:39 17:49	17:14 (WTG 03) 18:10	07:32 (WTG 05) 19:44 07:12 (WTG 05)	06:17 05:39	11 19:51 (WTG 02) 20:37
29	07:16 17:12		16:42 (WTG 03) 06:08	07:29 (WTG 05) 19:45 07:16 (WTG 05)	06:15 05:38	12 19:52 (WTG 02) 20:37
30	07:16 17:13		16:43 (WTG 03) 06:04	07:26 (WTG 05) 19:46 06:14	06:15 20:17	13 19:53 (WTG 02) 20:38
31	07:15 17:15		17:13 (WTG 03) 18:13		06:14 19:47	12 19:53 (WTG 02) 20:38
			16:44 (WTG 03) 06:03		06:12 05:37	13 19:41 (WTG 02) 05:27
			17:12 (WTG 03) 18:14		19:48 20:19	13 19:54 (WTG 02) 20:38
			16:45 (WTG 03) 06:01		06:11 05:36	14 19:42 (WTG 02) 05:28
			17:12 (WTG 03) 18:15		19:49 20:20	14 19:56 (WTG 02) 20:38
			16:45 (WTG 03) 05:59		06:09 05:35	13 19:43 (WTG 02) 05:28
			17:10 (WTG 03) 18:17		19:50 20:21	13 19:56 (WTG 02) 20:39
			16:47 (WTG 03) 05:58		06:08 05:34	14 19:43 (WTG 02) 05:28
			17:09 (WTG 03) 18:18		19:51 20:22	14 19:57 (WTG 02) 20:39
			16:48 (WTG 03) 05:56		06:06 05:34	13 19:45 (WTG 02) 05:28
			17:07 (WTG 03) 18:19		19:52 20:23	13 19:58 (WTG 02) 20:39
			16:50 (WTG 03) 05:54		06:05 05:33	13 19:46 (WTG 02) 05:29
			17:04 (WTG 03) 18:20		19:53 20:24	11 19:57 (WTG 02) 20:39
			07:21 (WTG 05) 05:53		06:04 05:32	8 19:48 (WTG 02) 05:29
			18:21		19:54 20:24	8 19:56 (WTG 02) 20:39
			06:51		06:02 05:32	3 19:50 (WTG 02) 05:30
			19:22		19:55 20:25	3 19:53 (WTG 02) 20:39
			06:49		06:01 05:31	3 19:53 (WTG 02) 20:39
			19:23		19:57 20:26	3 19:53 (WTG 02) 20:39
			06:47			
			19:24			
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		515	581		192	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 66 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (376)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	19:51 (WTG 02) 06:26 19:55 (WTG 02) 19:36	06:57 18:44	07:47 (WTG 05) 06:31 08:19 (WTG 05) 16:57	16:15 (WTG 03) 07:07 16:33 (WTG 03) 16:32
2	05:31 20:39	05:56 20:18	19:51 (WTG 02) 06:27 19:54 (WTG 02) 19:34	06:58 18:43	07:46 (WTG 05) 06:33 08:19 (WTG 05) 16:56	16:17 (WTG 03) 07:08 16:32 (WTG 03) 16:32
3	05:31 20:38	05:57 20:17	19:52 (WTG 02) 06:28 19:53 (WTG 02) 19:32	06:59 18:41	07:46 (WTG 05) 06:34 08:19 (WTG 05) 16:55	16:19 (WTG 03) 07:09 16:31 (WTG 03) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	07:45 (WTG 05) 06:35 08:18 (WTG 05) 16:54	16:21 (WTG 03) 07:10 16:30 (WTG 03) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	07:30 (7) 06:36 08:18 (WTG 05) 16:52	16:25 (WTG 03) 07:11 16:28 (WTG 03) 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	07:28 (7) 06:38 08:17 (WTG 05) 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	07:26 (7) 06:39 08:16 (WTG 05) 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	07:26 (7) 06:40 08:15 (WTG 05) 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	07:27 (7) 06:41 08:15 (WTG 05) 16:48	07:15 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:30	07:28 (7) 06:42 08:14 (WTG 05) 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	07:48 (WTG 05) 06:44 08:12 (WTG 05) 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	07:50 (WTG 05) 06:45 08:10 (WTG 05) 16:45	07:17 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	07:52 (WTG 05) 06:46 08:07 (WTG 05) 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	07:55 (WTG 05) 06:47 17:35 (WTG 03) 16:43	07:19 16:32
15	05:40 20:34	19:57 (WTG 02) 06:09 20:03 (WTG 02) 20:02	06:40 19:12	07:12 18:22	17:21 (WTG 03) 06:48 17:38 (WTG 03) 16:42	07:20 16:32
16	05:40 20:33	19:56 (WTG 02) 06:10 20:06 (WTG 02) 20:00	06:41 19:10	07:13 18:20	17:20 (WTG 03) 06:50 17:40 (WTG 03) 16:41	07:20 16:32
17	05:41 20:33	19:55 (WTG 02) 06:11 20:07 (WTG 02) 19:59	06:42 19:09	07:14 18:18	17:18 (WTG 03) 06:51 17:41 (WTG 03) 16:40	07:21 16:32
18	05:42 20:32	19:54 (WTG 02) 06:12 20:07 (WTG 02) 19:57	06:43 19:07	07:15 18:17	17:16 (WTG 03) 06:52 17:42 (WTG 03) 16:40	07:22 16:33
19	05:43 20:31	19:52 (WTG 02) 06:13 20:06 (WTG 02) 19:56	06:44 19:05	07:16 18:15	17:15 (WTG 03) 06:53 17:43 (WTG 03) 16:39	07:22 16:33
20	05:44 20:30	19:52 (WTG 02) 06:14 20:05 (WTG 02) 19:54	06:45 19:03	07:17 18:14	17:14 (WTG 03) 06:54 17:43 (WTG 03) 16:38	07:23 16:33
21	05:44 20:30	19:52 (WTG 02) 06:15 20:05 (WTG 02) 19:53	06:46 19:02	07:19 18:12	17:13 (WTG 03) 06:56 17:43 (WTG 03) 16:37	07:23 16:34
22	05:45 20:29	19:51 (WTG 02) 06:16 20:04 (WTG 02) 19:51	06:47 19:00	07:20 18:11	17:13 (WTG 03) 06:57 17:44 (WTG 03) 16:37	07:24 16:34
23	05:46 20:28	19:51 (WTG 02) 06:17 20:04 (WTG 02) 19:50	06:48 18:58	08:02 (WTG 05) 07:21 08:09 (WTG 05) 18:09	17:13 (WTG 03) 06:58 17:44 (WTG 03) 16:36	07:24 16:35
24	05:47 20:27	19:51 (WTG 02) 06:18 20:03 (WTG 02) 19:48	06:49 18:56	07:58 (WTG 05) 07:22 08:13 (WTG 05) 18:08	17:12 (WTG 03) 06:59 17:44 (WTG 03) 16:36	07:25 16:35
25	05:48 20:26	19:51 (WTG 02) 06:19 20:02 (WTG 02) 19:47	06:50 18:55	07:55 (WTG 05) 06:23 08:15 (WTG 05) 17:07	16:12 (WTG 03) 07:00 16:43 (WTG 03) 16:35	07:25 16:36
26	05:49 20:25	19:50 (WTG 02) 06:20 20:01 (WTG 02) 19:45	06:51 18:53	07:53 (WTG 05) 06:24 08:16 (WTG 05) 17:05	16:13 (WTG 03) 07:01 16:42 (WTG 03) 16:34	07:26 16:37
27	05:50 20:24	19:50 (WTG 02) 06:21 20:00 (WTG 02) 19:44	06:52 18:51	07:51 (WTG 05) 06:26 08:17 (WTG 05) 17:04	16:13 (WTG 03) 07:02 16:40 (WTG 03) 16:34	07:26 16:37
28	05:51 20:23	19:50 (WTG 02) 06:22 19:59 (WTG 02) 19:42	06:54 18:50	07:50 (WTG 05) 06:27 08:18 (WTG 05) 17:02	16:13 (WTG 03) 07:04 16:39 (WTG 03) 16:34	07:26 16:38
29	05:52 20:22	19:50 (WTG 02) 06:23 19:58 (WTG 02) 19:41	06:55 18:48	07:49 (WTG 05) 06:28 08:19 (WTG 05) 17:01	16:13 (WTG 03) 07:05 16:37 (WTG 03) 16:33	07:27 16:39
30	05:53 20:21	19:50 (WTG 02) 06:24 19:57 (WTG 02) 19:39	06:56 18:46	07:48 (WTG 05) 06:29 08:19 (WTG 05) 17:00	16:14 (WTG 03) 07:06 16:36 (WTG 03) 16:33	07:27 16:39
31	05:54 20:20	19:50 (WTG 02) 06:25 19:56 (WTG 02) 19:37	06:57 18:46	07:48 (WTG 05) 06:29 08:19 (WTG 05) 17:00	16:15 (WTG 03) 07:06 16:35 (WTG 03) 16:33	07:27 16:40
Ore potenziali eliofania	460					
Totale, caso peggiore	181	429	8	375	180	877
						297
						57
						286

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 67 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (377)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:18 (WTG 05) 07:44 (WTG 05)	06:46 19:25	05:59 19:58
2	07:27 16:42	07:13 17:17	06:36 17:52	06:56 (7) 07:45 (WTG 05)	06:44 19:26	05:58 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	06:55 (7) 07:45 (WTG 05)	06:42 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	06:32 17:54	06:55 (7) 07:47 (WTG 05)	06:41 19:28	05:56 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	06:55 (7) 07:46 (WTG 05)	06:39 19:30	05:54 20:02
6	07:28 16:46	07:08 17:22	06:29 17:56	06:55 (7) 07:46 (WTG 05)	06:37 19:31	05:53 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58	07:13 (WTG 05) 07:47 (WTG 05)	06:36 19:32	05:52 20:04
8	07:27 16:48	07:06 17:25	06:26 17:59	07:13 (WTG 05) 07:46 (WTG 05)	06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	06:24 18:00	07:12 (WTG 05) 07:45 (WTG 05)	06:33 19:34	05:49 20:06
10	07:27 16:50	07:04 17:27	06:23 18:01	07:13 (WTG 05) 07:45 (WTG 05)	06:31 19:35	05:48 20:07
11	07:27 16:51	07:03 17:29	06:21 18:02	07:13 (WTG 05) 07:44 (WTG 05)	06:29 19:36	05:47 20:08
12	07:27 16:52	07:01 17:30	06:19 18:03	07:13 (WTG 05) 07:43 (WTG 05)	06:28 19:37	05:46 20:09
13	07:26 16:53	07:00 17:31	06:18 18:04	07:14 (WTG 05) 07:43 (WTG 05)	06:26 19:38	05:45 20:10
14	07:26 16:54	06:59 17:32	06:16 18:05	07:14 (WTG 05) 07:41 (WTG 05)	06:24 19:39	05:44 20:11
15	07:26 16:55	06:57 17:34	06:15 18:07	07:15 (WTG 05) 07:39 (WTG 05)	06:23 19:40	05:43 20:12
16	07:25 16:56	06:56 17:35	06:13 18:08	07:17 (WTG 05) 07:38 (WTG 05)	06:21 19:41	05:42 20:13
17	07:25 16:58	06:55 17:36	06:11 18:09	07:19 (WTG 05) 07:35 (WTG 05)	06:20 19:43	05:41 20:14
18	07:24 16:59	06:53 17:37	06:09 18:10	07:22 (WTG 05) 07:30 (WTG 05)	06:18 19:44	05:40 20:15
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:39 19:38 (WTG 02)
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:38 19:39 (WTG 02)
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:37 20:18	05:37 19:40 (WTG 02)
22	07:22 17:03	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:37 19:41 (WTG 02)
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:36 19:42 (WTG 02)
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:35 19:43 (WTG 02)
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:34 19:44 (WTG 02)
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:34 19:45 (WTG 02)
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:33 19:46 (WTG 02)
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24	05:32 19:47 (WTG 02)
29	07:16 17:12		05:51 19:22	06:02 19:55	05:32 20:25	05:30 19:48 (WTG 02)
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 19:49 (WTG 02)
31	07:15 17:15		06:47 19:24		05:31 20:27	05:30 19:50 (WTG 02)
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		561	537		186	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 67 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (377)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	19:47 (WTG 02) 06:26 19:55 (WTG 02) 19:36	06:57 18:44	07:53 (WTG 05) 06:31 08:22 (WTG 05) 16:57	16:12 (WTG 03) 07:07 16:33 (WTG 03) 16:32
2	05:31 20:39	05:56 20:18	19:47 (WTG 02) 06:27 19:54 (WTG 02) 19:34	06:58 18:43	07:52 (WTG 05) 06:33 08:23 (WTG 05) 16:56	16:12 (WTG 03) 07:08 16:32 (WTG 03) 16:32
3	05:31 20:38	05:57 20:17	19:47 (WTG 02) 06:28 19:53 (WTG 02) 19:32	06:59 18:41	07:51 (WTG 05) 06:34 08:23 (WTG 05) 16:55	16:14 (WTG 03) 07:09 16:31 (WTG 03) 16:32
4	05:32 20:38	05:58 20:16	19:48 (WTG 02) 06:29 19:52 (WTG 02) 19:31	07:00 18:39	07:50 (WTG 05) 06:35 08:23 (WTG 05) 16:54	16:15 (WTG 03) 07:10 16:30 (WTG 03) 16:32
5	05:33 20:38	05:59 20:15	19:48 (WTG 02) 06:30 19:51 (WTG 02) 19:29	07:01 18:38	07:49 (WTG 05) 06:36 08:23 (WTG 05) 16:52	16:17 (WTG 03) 07:11 16:28 (WTG 03) 16:31
6	05:33 20:38	06:00 20:14	19:49 (WTG 02) 06:31 19:50 (WTG 02) 19:27	07:02 18:36	07:49 (WTG 05) 06:38 08:22 (WTG 05) 16:51	16:20 (WTG 03) 07:12 16:28 (WTG 03) 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	07:32 (7) 06:39 08:22 (WTG 05) 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	07:30 (7) 06:40 08:21 (WTG 05) 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	07:30 (7) 06:41 08:22 (WTG 05) 16:48	07:15 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:30	07:29 (7) 06:42 08:21 (WTG 05) 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	07:29 (7) 06:44 08:20 (WTG 05) 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	07:30 (7) 06:45 08:18 (WTG 05) 16:45	07:17 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	07:52 (WTG 05) 06:46 08:17 (WTG 05) 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	07:53 (WTG 05) 06:47 08:15 (WTG 05) 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	07:54 (WTG 05) 06:48 08:12 (WTG 05) 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	07:58 (WTG 05) 06:50 17:33 (WTG 03) 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	17:19 (WTG 03) 06:51 17:36 (WTG 03) 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	17:16 (WTG 03) 06:52 17:37 (WTG 03) 16:40	07:22 16:33
19	05:43 20:31	19:54 (WTG 02) 06:13 20:01 (WTG 02) 19:56	06:44 19:05	07:16 18:15	17:15 (WTG 03) 06:53 17:38 (WTG 03) 16:39	07:22 16:33
20	05:44 20:30	19:52 (WTG 02) 06:14 20:03 (WTG 02) 19:54	06:45 19:03	07:17 18:14	17:13 (WTG 03) 06:54 17:39 (WTG 03) 16:38	07:23 16:33
21	05:44 20:30	19:51 (WTG 02) 06:15 20:05 (WTG 02) 19:53	06:46 19:02	07:19 18:12	17:12 (WTG 03) 06:56 17:39 (WTG 03) 16:37	07:23 16:34
22	05:45 20:29	19:50 (WTG 02) 06:16 20:04 (WTG 02) 19:51	06:47 19:00	07:20 18:11	17:12 (WTG 03) 06:57 17:41 (WTG 03) 16:37	07:24 16:34
23	05:46 20:28	19:50 (WTG 02) 06:17 20:04 (WTG 02) 19:50	06:48 18:58	07:21 18:09	17:11 (WTG 03) 06:58 17:41 (WTG 03) 16:36	07:24 16:35
24	05:47 20:27	19:49 (WTG 02) 06:18 20:03 (WTG 02) 19:48	06:49 18:56	07:22 18:08	17:10 (WTG 03) 06:59 17:41 (WTG 03) 16:36	07:25 16:35
25	05:48 20:26	19:49 (WTG 02) 06:19 20:02 (WTG 02) 19:47	06:50 18:55	06:23 17:07	16:10 (WTG 03) 07:00 16:41 (WTG 03) 16:35	07:25 16:36
26	05:49 20:25	19:48 (WTG 02) 06:20 20:01 (WTG 02) 19:45	06:51 18:53	06:24 17:05	16:10 (WTG 03) 07:01 16:41 (WTG 03) 16:34	07:26 16:37
27	05:50 20:24	19:47 (WTG 02) 06:21 20:00 (WTG 02) 19:44	06:52 18:51	06:26 17:04	16:10 (WTG 03) 07:02 16:40 (WTG 03) 16:34	07:26 16:37
28	05:51 20:23	19:47 (WTG 02) 06:22 19:59 (WTG 02) 19:42	06:54 18:50	06:27 17:02	16:10 (WTG 03) 07:04 16:39 (WTG 03) 16:34	07:26 16:38
29	05:52 20:22	19:47 (WTG 02) 06:23 19:58 (WTG 02) 19:41	06:55 18:48	06:28 17:01	16:10 (WTG 03) 07:05 16:37 (WTG 03) 16:33	07:27 16:39
30	05:53 20:21	19:47 (WTG 02) 06:24 19:57 (WTG 02) 19:39	06:56 18:46	06:29 17:00	16:11 (WTG 03) 07:06 16:36 (WTG 03) 16:33	07:27 16:39
31	05:54 20:20	19:47 (WTG 02) 06:25 19:56 (WTG 02) 19:37	 19:37	06:30 16:58	16:11 (WTG 03) 07:07 16:35 (WTG 03) 16:33	07:27 16:40
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore	155	29	113	909	92	286

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 68 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (327)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:05 (7) 06:46	07:15 (8) 05:59	19:31 (WTG 02) 05:30
2	07:27 16:42	07:13 17:17	06:36 17:52	07:07 (7) 06:44	07:25 (8) 05:58	19:35 (WTG 02) 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	07:29 (WTG 05) 06:42	07:17 (8) 05:57	19:31 (WTG 02) 05:30
4	07:28 16:44	07:11 17:20	06:32 17:54	07:28 (WTG 05) 06:41	07:23 (8) 19:59	19:36 (WTG 02) 20:28
5	07:28 16:45	07:10 17:21	06:31 17:55	07:29 (WTG 05) 06:39	05:57 19:59	19:29 (WTG 02) 05:29
6	07:28 16:46	07:08 17:22	06:29 17:56	07:29 (WTG 05) 06:37	20:00 05:56	19:36 (WTG 02) 20:29
7	07:28 16:47	07:07 17:23	06:28 17:57	07:30 (WTG 05) 06:36	20:01 05:55	19:29 (WTG 02) 05:29
8	07:27 16:48	07:06 17:24	06:26 17:58	07:30 (WTG 05) 06:34	20:02 05:54	19:37 (WTG 02) 20:30
9	07:27 16:49	07:05 17:25	06:24 17:59	07:31 (WTG 05) 06:33	20:02 05:53	19:29 (WTG 02) 05:28
10	07:27 16:50	07:04 17:26	06:23 18:00	07:31 (WTG 05) 06:31	20:03 05:52	19:40 (WTG 02) 20:31
11	07:27 16:51	07:03 17:27	06:21 18:01	07:33 (WTG 05) 06:29	20:04 05:51	19:29 (WTG 02) 05:28
12	07:27 16:52	07:01 17:28	06:19 18:02	07:36 (WTG 05) 06:28	20:05 05:50	19:41 (WTG 02) 20:32
13	07:26 16:53	07:00 17:29	06:18 18:03	07:36 (WTG 05) 06:28	20:06 05:49	19:29 (WTG 02) 05:27
14	07:26 16:54	06:59 17:30	06:16 18:04	07:46 (WTG 05) 19:38	20:07 05:48	19:41 (WTG 02) 20:32
15	07:26 16:55	06:57 17:31	06:15 18:05	06:23 19:39	20:08 05:47	19:42 (WTG 02) 20:33
16	07:25 16:56	06:56 17:32	06:13 18:06	06:21 19:40	20:09 05:46	19:29 (WTG 02) 05:27
17	07:25 16:57	06:55 17:33	06:11 18:07	06:20 19:41	20:10 05:45	19:30 (WTG 02) 05:28
18	07:24 16:58	06:54 17:34	06:09 18:08	06:18 19:42	20:11 05:44	19:45 (WTG 02) 20:35
19	07:24 16:59	06:52 17:35	06:08 18:09	06:17 19:43	20:12 05:43	19:31 (WTG 02) 05:27
20	07:23 17:00	06:51 17:36	06:06 18:10	06:15 19:44	20:13 05:42	19:38 (WTG 02) 05:27
21	07:22 17:01	06:49 17:37	06:04 18:11	06:14 19:45	20:14 05:41	19:39 (WTG 02) 20:36
22	07:22 17:02	06:48 17:38	06:03 18:12	06:12 19:46	20:15 05:40	19:30 (WTG 02) 05:27
23	07:21 17:03	06:46 17:39	06:01 18:13	06:11 19:47	20:16 05:39	19:44 (WTG 02) 20:34
24	07:20 17:04	06:45 17:40	05:59 18:14	06:09 19:48	20:17 05:38	19:29 (WTG 02) 05:27
25	07:20 17:05	06:43 17:41	05:58 18:15	06:08 19:49	20:18 05:37	19:30 (WTG 02) 05:28
26	07:19 17:06	06:42 17:42	05:56 18:16	06:07 19:50	20:19 05:36	19:43 (WTG 02) 05:27
27	07:18 17:07	06:40 17:43	05:54 18:17	06:05 19:51	20:20 05:35	19:33 (WTG 02) 05:28
28	07:17 17:08	06:39 17:44	05:53 18:18	06:04 19:52	20:21 05:34	19:33 (WTG 02) 05:28
29	07:16 17:09	06:37 17:45	05:51 18:19	06:02 19:53	20:22 05:33	19:33 (WTG 02) 05:29
30	07:16 17:10	06:35 17:46	05:49 18:20	06:01 19:54	20:23 05:32	19:33 (WTG 02) 05:29
31	07:15 17:11	06:33 17:47	05:47 18:21	05:59 19:55	20:24 05:31	19:33 (WTG 02) 05:30
Ore potenziali eliofanìa	296	297	369	399	449	454
Totale, caso peggiore		764	462	17	163	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 68 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (327)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30	05:55	19:41 (WTG 02) 06:26	06:57	08:17 (WTG 05) 06:31	16:08 (WTG 03) 07:07
2	05:31	05:56	19:40 (WTG 02) 06:27	06:58	08:14 (WTG 05) 06:33	16:09 (WTG 03) 07:08
3	05:31	05:57	19:39 (WTG 02) 06:28	06:59	08:11 (WTG 05) 06:34	16:10 (WTG 03) 07:09
4	05:32	05:58	19:39 (WTG 02) 06:29	07:00	08:09 (WTG 05) 06:35	16:11 (WTG 03) 07:10
5	05:33	05:59	19:39 (WTG 02) 06:30	07:01	08:08 (WTG 05) 06:36	16:12 (WTG 03) 07:11
6	05:33	06:00	19:39 (WTG 02) 06:31	07:02	08:06 (WTG 05) 06:38	16:14 (WTG 03) 07:12
7	05:34	06:01	19:38 (WTG 02) 06:32	07:03	08:05 (WTG 05) 06:39	16:16 (WTG 03) 07:13
8	05:34	06:02	19:39 (WTG 02) 06:33	07:04	08:04 (WTG 05) 06:40	16:19 (WTG 03) 07:14
9	05:35	06:03	19:39 (WTG 02) 06:34	07:05	08:04 (WTG 05) 06:41	16:25 (WTG 03) 07:15
10	05:36	06:04	19:39 (WTG 02) 06:35	07:06	08:04 (WTG 05) 06:42	16:31 (WTG 03) 07:16
11	05:37	06:05	19:39 (WTG 02) 06:36	07:07	08:03 (WTG 05) 06:44	16:37 (WTG 03) 07:17
12	05:37	06:06	19:40 (WTG 02) 06:37	07:08	08:03 (WTG 05) 06:44	16:44 (WTG 03) 07:18
13	05:38	06:07	19:41 (WTG 02) 06:38	07:09	08:03 (WTG 05) 06:45	16:51 (WTG 03) 07:19
14	05:39	06:08	19:42 (WTG 02) 06:39	07:10	08:03 (WTG 05) 06:46	17:00 (WTG 03) 07:20
15	05:39	06:09	19:42 (WTG 02) 06:40	07:11	08:03 (WTG 05) 06:47	17:09 (WTG 03) 07:21
16	05:40	06:10	19:42 (WTG 02) 06:41	07:12	08:03 (WTG 05) 06:48	17:19 (WTG 03) 07:22
17	05:41	06:11	19:42 (WTG 02) 06:42	07:13	08:03 (WTG 05) 06:49	17:30 (WTG 03) 07:23
18	05:42	06:12	19:42 (WTG 02) 06:43	07:14	08:03 (WTG 05) 06:50	17:42 (WTG 03) 07:24
19	05:43	06:13	19:42 (WTG 02) 06:44	07:15	08:03 (WTG 05) 06:51	17:55 (WTG 03) 07:25
20	05:44	06:14	19:42 (WTG 02) 06:45	07:16	08:03 (WTG 05) 06:52	18:10 (WTG 03) 07:26
21	05:44	06:15	19:42 (WTG 02) 06:46	07:17	08:03 (WTG 05) 06:53	18:26 (WTG 03) 07:27
22	05:45	06:16	19:42 (WTG 02) 06:47	07:18	08:03 (WTG 05) 06:54	18:44 (WTG 03) 07:28
23	05:46	06:17	19:42 (WTG 02) 06:48	07:19	08:03 (WTG 05) 06:55	19:04 (WTG 03) 07:29
24	05:47	06:18	19:42 (WTG 02) 06:49	07:20	08:03 (WTG 05) 06:56	19:26 (WTG 03) 07:30
25	05:48	06:19	19:42 (WTG 02) 06:50	07:21	08:03 (WTG 05) 06:57	19:50 (WTG 03) 07:31
26	05:49	06:20	19:42 (WTG 02) 06:51	07:22	08:03 (WTG 05) 06:58	20:16 (WTG 03) 07:32
27	05:50	06:21	19:42 (WTG 02) 06:52	07:23	08:03 (WTG 05) 06:59	20:44 (WTG 03) 07:33
28	05:51	06:22	19:42 (WTG 02) 06:53	07:24	08:03 (WTG 05) 07:00	21:14 (WTG 03) 07:34
29	05:52	06:23	19:42 (WTG 02) 06:54	07:25	08:03 (WTG 05) 07:01	21:46 (WTG 03) 07:35
30	05:53	06:24	19:42 (WTG 02) 06:55	07:26	08:03 (WTG 05) 07:02	22:20 (WTG 03) 07:36
31	05:54	06:25	19:42 (WTG 02) 06:56	07:27	08:03 (WTG 05) 07:03	22:56 (WTG 03) 07:37
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	44	122	108	1018	134	286

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 69 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (326)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:02 (7) 06:46	05:59 19:25	05:30 20:28
2	07:27 16:42	07:13 17:17	06:36 17:52	07:03 (7) 06:44	05:58 19:26	05:30 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	07:03 (7) 06:42	05:57 19:27	05:29 20:29
4	07:28 16:44	07:11 17:20	06:32 17:54	07:24 (WTG 05) 06:41	05:56 20:00	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	07:25 (WTG 05) 06:39	05:54 20:02	05:28 20:31
6	07:28 16:46	07:08 17:22	06:29 17:56	07:25 (WTG 05) 06:37	05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:23	06:28 17:57	07:25 (WTG 05) 06:36	05:52 20:04	05:28 20:32
8	07:27 16:48	07:06 17:24	06:26 17:58	07:25 (WTG 05) 06:34	05:51 20:05	05:28 20:32
9	07:27 16:49	07:05 17:25	06:24 17:59	07:25 (WTG 05) 06:33	05:49 20:06	05:27 20:33
10	07:27 16:50	07:04 17:26	06:23 18:00	07:25 (WTG 05) 06:32	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:27	06:21 18:01	07:27 (WTG 05) 06:29	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:28	06:19 18:02	07:28 (WTG 05) 06:28	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:29	06:18 18:03	07:30 (WTG 05) 06:26	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:30	06:16 18:04	07:32 (WTG 05) 06:24	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:31	06:15 18:05	07:38 (WTG 05) 06:23	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:32	06:13 18:06	07:40 (WTG 05) 06:21	05:42 20:13	05:27 20:36
17	07:25 16:57	06:55 17:33	06:11 18:07	06:20 19:41	05:41 20:14	05:27 20:37
18	07:24 16:58	06:53 17:34	06:09 18:08	06:18 19:42	05:40 20:15	05:27 20:37
19	07:24 16:59	06:52 17:35	06:08 18:09	06:17 19:43	05:39 20:16	05:27 20:37
20	07:23 17:00	06:51 17:36	06:06 18:10	06:15 19:44	05:38 20:17	05:27 20:38
21	07:22 17:01	06:49 17:37	06:04 18:11	06:14 19:45	05:37 20:18	05:27 20:38
22	07:22 17:02	06:48 17:38	06:03 18:12	06:12 19:46	05:37 20:19	05:27 20:38
23	07:21 17:03	06:46 17:39	06:01 18:13	06:11 19:47	05:36 20:20	05:28 20:39
24	07:20 17:04	06:45 17:40	05:59 18:14	06:09 19:48	05:35 20:21	05:28 20:39
25	07:20 17:05	06:43 17:41	05:58 18:15	06:08 19:49	05:34 20:22	05:28 20:39
26	07:19 17:06	06:42 17:42	05:56 18:16	06:06 19:50	05:34 20:23	05:28 20:39
27	07:18 17:07	06:40 17:43	05:54 18:17	06:05 19:51	05:33 20:24	05:29 20:39
28	07:17 17:08	06:39 17:44	05:53 18:18	06:04 19:52	05:32 20:25	05:29 20:39
29	07:16 17:09	06:37 17:45	05:51 18:19	06:02 19:53	05:32 20:26	05:30 20:39
30	07:16 17:10	06:35 17:46	05:49 18:20	06:01 19:54	05:31 20:27	05:30 20:39
31	07:15 17:11	06:33 17:47	05:47 18:21	05:59 19:55	05:31 20:28	05:30 20:39
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		679	450		167	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 69 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (326)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	19:42 (WTG 02) 06:26 19:55 (WTG 02) 19:36	06:57 18:44	08:08 (WTG 05) 06:31 18:44 (WTG 05) 16:57	16:11 (WTG 03) 07:07 16:33 (WTG 03) 16:32
2	05:31 20:39	05:56 20:18	19:41 (WTG 02) 06:27 19:54 (WTG 02) 19:34	06:58 18:43	08:06 (WTG 05) 06:33 08:32 (WTG 05) 16:56	16:12 (WTG 03) 07:08 16:32 (WTG 03) 16:32
3	05:31 20:38	05:57 20:17	19:41 (WTG 02) 06:28 19:53 (WTG 02) 19:32	06:59 18:41	08:05 (WTG 05) 06:34 08:33 (WTG 05) 16:55	16:13 (WTG 03) 07:09 16:31 (WTG 03) 16:32
4	05:32 20:38	05:58 20:16	19:41 (WTG 02) 06:29 19:52 (WTG 02) 19:31	07:00 18:39	08:03 (WTG 05) 06:35 08:34 (WTG 05) 16:54	16:14 (WTG 03) 07:10 16:30 (WTG 03) 16:32
5	05:33 20:38	05:59 20:15	19:41 (WTG 02) 06:30 19:51 (WTG 02) 19:29	07:01 18:38	08:02 (WTG 05) 06:36 08:34 (WTG 05) 16:52	16:16 (WTG 03) 07:11 16:28 (WTG 03) 16:31
6	05:33 20:38	06:00 20:14	19:41 (WTG 02) 06:31 19:50 (WTG 02) 19:27	07:02 18:36	08:01 (WTG 05) 06:38 08:34 (WTG 05) 16:51	16:19 (WTG 03) 07:12 16:28 (WTG 03) 16:31
7	05:34 20:37	06:01 20:12	19:41 (WTG 02) 06:32 19:49 (WTG 02) 19:26	07:03 18:34	08:00 (WTG 05) 06:39 08:34 (WTG 05) 16:50	16:31 16:31
8	05:34 20:37	06:02 20:11	19:41 (WTG 02) 06:33 19:48 (WTG 02) 19:24	07:04 18:33	08:00 (WTG 05) 06:40 08:34 (WTG 05) 16:49	16:31 16:31
9	05:35 20:37	06:03 20:10	19:42 (WTG 02) 06:34 19:47 (WTG 02) 19:22	07:05 18:31	08:00 (WTG 05) 06:41 08:35 (WTG 05) 16:48	16:31 16:31
10	05:36 20:36	06:04 20:08	19:42 (WTG 02) 06:35 19:46 (WTG 02) 19:21	07:06 18:30	07:39 (7) 06:42 08:35 (WTG 05) 16:47	16:31 16:31
11	05:37 20:36	06:05 20:07	19:43 (WTG 02) 06:36 19:44 (WTG 02) 19:19	07:07 18:28	07:37 (7) 06:44 08:35 (WTG 05) 16:46	16:31 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	07:36 (7) 06:45 08:34 (WTG 05) 16:45	16:31 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	07:36 (7) 06:46 08:33 (WTG 05) 16:44	16:31 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	07:36 (7) 06:47 08:32 (WTG 05) 16:43	16:31 16:32
15	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:22	07:36 (7) 06:48 08:31 (WTG 05) 16:42	16:32 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	08:01 (WTG 05) 06:50 08:31 (WTG 05) 16:41	16:32 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	08:02 (WTG 05) 06:51 17:30 (WTG 03) 16:40	16:32 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	08:03 (WTG 05) 06:52 17:33 (WTG 03) 16:40	16:33 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	08:04 (WTG 05) 06:53 17:35 (WTG 03) 16:39	16:33 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	08:06 (WTG 05) 06:54 17:36 (WTG 03) 16:38	16:33 16:33
21	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	08:09 (WTG 05) 06:56 17:37 (WTG 03) 16:37	16:33 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	17:12 (WTG 03) 06:57 17:38 (WTG 03) 16:37	16:34 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	17:11 (WTG 03) 06:58 17:38 (WTG 03) 16:36	16:34 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	17:10 (WTG 03) 06:59 17:39 (WTG 03) 16:36	16:35 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	16:10 (WTG 03) 07:00 16:38 (WTG 03) 16:35	16:35 16:36
26	05:49 20:25	19:48 (WTG 02) 06:20 19:54 (WTG 02) 19:45	06:51 18:53	07:24 17:05	16:10 (WTG 03) 07:01 16:39 (WTG 03) 16:34	16:36 16:37
27	05:50 20:24	19:46 (WTG 02) 06:21 19:57 (WTG 02) 19:44	06:52 18:51	07:25 17:04	16:10 (WTG 03) 07:02 16:39 (WTG 03) 16:34	16:37 16:37
28	05:51 20:23	19:45 (WTG 02) 06:22 19:58 (WTG 02) 19:42	06:54 18:50	07:26 17:02	16:10 (WTG 03) 07:04 16:39 (WTG 03) 16:33	16:37 16:38
29	05:52 20:22	19:44 (WTG 02) 06:23 19:58 (WTG 02) 19:41	06:55 18:48	07:27 17:01	16:10 (WTG 03) 07:05 16:37 (WTG 03) 16:33	16:38 16:39
30	05:53 20:21	19:43 (WTG 02) 06:24 19:57 (WTG 02) 19:39	06:56 18:46	07:28 17:00	08:14 (WTG 05) 06:28 08:26 (WTG 05) 17:01 08:11 (WTG 05) 06:29 08:29 (WTG 05) 17:00	16:39 16:39 16:39 16:40
31	05:54 20:20	19:42 (WTG 02) 06:25 19:56 (WTG 02) 19:37	06:57 18:45	07:29 16:58	16:11 (WTG 03) 07:06 16:36 (WTG 03) 16:33 16:11 (WTG 03) 07:07 16:35 (WTG 03) 16:33	16:40 16:40 16:40 16:40
Ore potenziali eliofania	460		375	345	297	286
Totale, caso peggiore	72	93	30	1020	97	286

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 70 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (328)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	08:21 (WTG 05) 06:46 19:25	05:59 19:58	19:18 (WTG 02) 05:30 20:28
2	07:27 16:42	07:13 17:17	06:36 (WTG 05) 06:36 17:52	08:25 (WTG 05) 06:44 19:26	05:58 19:59	19:20 (WTG 02) 05:30 20:28
3	07:28 16:43	07:12 17:18	06:34 (WTG 05) 06:34 17:53	08:36 (WTG 05) 06:42 19:27	05:57 20:00	19:28 (WTG 02) 05:29 20:28
4	07:28 16:44	07:11 17:20	06:32 (WTG 05) 06:32 17:54	08:23 (WTG 05) 06:41 19:28	05:56 20:01	20:29 20:30
5	07:28 16:45	07:10 17:21	06:31 (WTG 05) 06:31 17:55	08:21 (WTG 05) 06:39 19:30	05:54 20:02	05:28 20:30
6	07:28 16:46	07:08 17:22	06:29 (WTG 05) 06:29 17:56	08:19 (WTG 05) 06:37 19:31	05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 (WTG 05) 06:28 17:58	08:18 (WTG 05) 06:36 19:32	05:52 20:04	05:28 20:32
8	07:27 16:48	07:06 17:25	06:26 (WTG 05) 06:26 17:59	08:17 (WTG 05) 06:34 19:33	05:51 20:05	05:28 20:32
9	07:27 16:49	07:05 17:26	06:24 (WTG 05) 06:24 18:00	08:17 (WTG 05) 06:33 19:34	05:49 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 (WTG 05) 06:23 18:01	08:16 (WTG 05) 06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 (WTG 05) 06:21 18:02	08:15 (WTG 05) 06:29 19:36	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:19 (WTG 05) 06:19 18:03	08:14 (WTG 05) 06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 (WTG 05) 06:18 18:04	08:14 (WTG 05) 06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 (WTG 05) 06:16 18:05	08:13 (WTG 05) 06:24 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:34	06:14 (WTG 05) 06:14 18:07	08:13 (WTG 05) 06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 (WTG 05) 06:13 18:08	08:13 (WTG 05) 06:21 19:41	05:42 20:13	05:27 20:36
17	07:25 16:58	06:55 17:36	06:11 (WTG 05) 06:11 18:09	08:13 (WTG 05) 06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:09 (WTG 05) 06:09 18:10	08:13 (WTG 05) 06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 (WTG 05) 06:08 18:11	08:13 (WTG 05) 06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	06:06 (WTG 05) 06:06 18:12	08:13 (WTG 05) 06:15 19:46	05:38 20:17	05:27 20:38
21	07:22 17:02	06:49 17:41	06:04 (WTG 05) 06:04 18:13	08:13 (WTG 05) 06:14 19:47	05:37 20:18	05:27 20:38
22	07:22 17:03	06:48 17:42	06:03 (WTG 05) 06:03 18:14	08:14 (WTG 05) 06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 (WTG 05) 06:01 18:15	08:15 (WTG 05) 06:11 19:49	05:36 20:20	05:28 20:38
24	07:20 17:06	06:45 17:45	05:59 (WTG 05) 05:59 18:16	08:15 (WTG 05) 06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 (WTG 05) 05:58 18:18	08:15 (WTG 05) 06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 (WTG 05) 05:56 18:19	08:17 (WTG 05) 06:06 19:52	05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 (WTG 05) 05:54 18:20	08:17 (WTG 05) 06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 (WTG 05) 05:53 18:21	08:19 (WTG 05) 06:03 19:54	05:32 20:24	05:29 20:39
29	07:16 17:12		05:51 (WTG 05) 05:51 19:22	08:43 (WTG 05) 06:51 07:41 (8)	05:32 19:15 (WTG 02)	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 19:16 (WTG 02)	05:30 20:39
31	07:15 17:15		06:47 19:24		05:31 20:27	
Ore potenziali eliofanía	296	297	369	399	449	454
Totale, caso peggiore		1222	168	136	20	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 70 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (328)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:45 (WTG 05) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	59 07:46 (WTG 03) 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	54 07:47 (WTG 05) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	51 07:48 (WTG 05) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	47 07:49 (WTG 05) 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	40 07:52 (WTG 03) 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	31 07:53 (WTG 05) 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	20 07:56 (WTG 05) 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	14 08:01 (WTG 05) 16:31
10	05:36 20:36	06:04 20:08	19:31 (WTG 02) 19:35 (WTG 02)	06:35 19:21	07:06 18:29	5 08:06 (WTG 05) 16:31
11	05:36 20:36	06:05 20:07	19:28 (WTG 02) 19:38 (WTG 02)	06:36 19:19	07:07 18:28	16:47 16:46
12	05:37 20:35	06:06 20:06	19:26 (WTG 02) 19:39 (WTG 02)	06:37 19:17	07:08 18:26	15 08:57 (WTG 05) 16:45
13	05:38 20:35	06:07 20:04	19:25 (WTG 02) 19:40 (WTG 02)	06:38 19:15	07:10 18:25	20 08:54 (WTG 05) 16:44
14	05:39 20:34	06:08 20:03	19:24 (WTG 02) 19:41 (WTG 02)	06:39 19:14	07:11 18:23	25 08:51 (WTG 05) 16:43
15	05:39 20:34	06:09 20:02	19:22 (WTG 02) 19:38 (WTG 02)	06:40 19:12	07:12 18:22	29 08:49 (WTG 05) 16:42
16	05:40 20:33	06:10 20:00	19:22 (WTG 02) 19:37 (WTG 02)	06:41 19:10	07:13 18:20	31 08:47 (WTG 05) 16:41
17	05:41 20:33	06:11 19:59	19:21 (WTG 02) 19:36 (WTG 02)	06:42 19:09	07:14 18:18	34 08:47 (WTG 05) 16:40
18	05:42 20:32	06:12 19:57	19:21 (WTG 02) 19:34 (WTG 02)	06:43 19:07	07:15 18:17	35 08:46 (WTG 05) 16:40
19	05:43 20:31	06:13 19:56	19:21 (WTG 02) 19:33 (WTG 02)	06:44 19:05	07:16 18:15	37 08:45 (WTG 05) 16:39
20	05:44 20:30	06:14 19:54	19:21 (WTG 02) 19:31 (WTG 02)	06:45 19:03	07:17 18:14	45 08:44 (WTG 05) 16:38
21	05:44 20:30	06:15 19:53	19:22 (WTG 02) 19:30 (WTG 02)	06:46 19:02	07:19 18:12	52 08:43 (WTG 05) 16:37
22	05:45 20:29	06:16 19:51	19:22 (WTG 02) 19:28 (WTG 02)	06:47 19:00	07:20 18:11	56 08:44 (WTG 05) 16:37
23	05:46 20:28	06:17 19:50	19:23 (WTG 02) 19:27 (WTG 02)	06:48 18:58	07:21 18:09	59 08:43 (WTG 05) 16:36
24	05:47 20:27	06:18 19:48	19:25 (WTG 02) 19:26 (WTG 02)	06:49 18:56	07:22 18:08	62 08:43 (WTG 03) 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	06:50 18:55	06:23 17:07	64 07:42 (WTG 05) 16:35
26	05:49 20:25	06:20 19:45	06:51 18:53	06:51 18:53	06:24 17:05	64 07:43 (WTG 05) 16:34
27	05:50 20:24	06:21 19:44	06:52 18:51	06:52 18:51	06:26 17:04	64 07:43 (WTG 05) 16:34
28	05:51 20:23	06:22 19:42	06:54 18:50	06:54 18:50	06:27 17:02	64 07:43 (WTG 05) 16:33
29	05:52 20:22	06:23 19:41	06:55 18:48	06:55 18:48	06:28 17:01	64 07:43 (WTG 05) 16:33
30	05:53 20:21	06:24 19:39	06:56 18:46	06:56 18:46	06:29 17:00	62 07:44 (WTG 05) 16:33
31	05:54 20:20	06:25 19:37	06:57 18:45	06:57 18:45	06:30 16:58	59 07:45 (WTG 05) 16:31
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore		159	134	941	321	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 71 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (329)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	09:07 (WTG 05)	07:14	09:03 (WTG 05)	06:37		06:46	05:59	05:30			
	16:41	20 09:27 (WTG 05)	17:16	47 09:50 (WTG 05)	17:51		19:25	19:58	20:28			
2	07:27	09:06 (WTG 05)	07:13	09:04 (WTG 05)	06:36		06:44	05:58	05:30			
	16:42	22 09:28 (WTG 05)	17:17	46 09:50 (WTG 05)	17:52		19:26	19:59	20:28			
3	07:28	09:06 (WTG 05)	07:12	09:04 (WTG 05)	06:34		06:42	05:57	05:29			
	16:43	24 09:30 (WTG 05)	17:18	46 09:50 (WTG 05)	17:53		19:27	20:00	20:29			
4	07:28	09:06 (WTG 05)	07:11	09:05 (WTG 05)	06:32		06:41	05:56	05:29			
	16:44	25 09:31 (WTG 05)	17:20	45 09:50 (WTG 05)	17:54		19:28	20:01	20:30			
5	07:28	09:05 (WTG 05)	07:10	09:04 (WTG 05)	06:31		06:39	05:54	05:28			
	16:45	27 09:32 (WTG 05)	17:21	44 09:48 (WTG 05)	17:55		19:30	20:02	20:30			
6	07:28	09:05 (WTG 05)	07:08	09:05 (WTG 05)	06:29		06:37	05:53	05:28			
	16:46	28 09:33 (WTG 05)	17:22	51 16:57 (WTG 03)	17:56		19:31	20:03	20:31			
7	07:27	09:05 (WTG 05)	07:07	09:06 (WTG 05)	06:28		06:36	05:52	05:28			
	16:47	30 09:35 (WTG 05)	17:24	53 16:59 (WTG 03)	17:57		19:32	20:04	20:32			
8	07:27	09:04 (WTG 05)	07:06	09:07 (WTG 05)	06:26		06:34	05:51	05:28			
	16:48	31 09:35 (WTG 05)	17:25	54 17:01 (WTG 03)	17:59		19:33	20:05	20:32			
9	07:27	09:04 (WTG 05)	07:05	09:08 (WTG 05)	06:24		06:33	05:49	05:27			
	16:49	32 09:36 (WTG 05)	17:26	55 17:02 (WTG 03)	18:00		19:34	20:06	20:33			
10	07:27	09:04 (WTG 05)	07:04	09:09 (WTG 05)	06:23		06:31	05:48	05:27			
	16:50	34 09:38 (WTG 05)	17:27	56 17:04 (WTG 03)	18:01		19:35	20:07	20:34			
11	07:27	09:04 (WTG 05)	07:03	09:10 (WTG 05)	06:21		07:02 (8)	06:29	05:47	05:27		
	16:51	35 09:39 (WTG 05)	17:29	52 17:03 (WTG 03)	18:02	6	07:08 (8)	19:36	20:08	20:34		
12	07:27	09:03 (WTG 05)	07:01	09:12 (WTG 05)	06:19		06:58 (8)	06:28	05:46	05:27		
	16:52	36 09:39 (WTG 05)	17:30	50 17:04 (WTG 03)	18:03	12	07:10 (8)	19:37	20:09	20:35		
13	07:26	09:03 (WTG 05)	07:00	09:14 (WTG 05)	06:18		06:57 (8)	06:26	05:45	05:27		
	16:53	38 09:41 (WTG 05)	17:31	47 17:05 (WTG 03)	18:04	16	07:13 (8)	19:38	20:10	20:35		
14	07:26	09:03 (WTG 05)	06:59	09:15 (WTG 05)	06:16		06:56 (8)	06:24	05:44	05:27		
	16:54	38 09:41 (WTG 05)	17:32	42 17:04 (WTG 03)	18:05	17	07:13 (8)	19:39	20:11	20:36		
15	07:26	09:03 (WTG 05)	06:57	09:19 (WTG 05)	06:14		06:54 (8)	06:23	05:43	05:27		
	16:55	40 09:43 (WTG 05)	17:34	34 17:04 (WTG 03)	18:07	19	07:13 (8)	19:40	20:12	20:36		
16	07:25	09:02 (WTG 05)	06:56	16:44 (WTG 03)	06:13		06:54 (8)	06:21	05:42	05:27		
	16:56	41 09:43 (WTG 05)	17:35	20 17:04 (WTG 03)	18:08	20	07:14 (8)	19:41	20:13	20:36		
17	07:25	09:02 (WTG 05)	06:55	16:44 (WTG 03)	06:11		06:54 (8)	06:20	05:41	05:27		
	16:58	42 09:44 (WTG 05)	17:36	19 17:03 (WTG 03)	18:09	19	07:13 (8)	19:43	20:14	20:37		
18	07:24	09:02 (WTG 05)	06:53	16:46 (WTG 03)	06:09		06:53 (8)	06:18	05:40	05:27		
	16:59	43 09:45 (WTG 05)	17:37	16 17:02 (WTG 03)	18:10	19	07:12 (8)	19:44	20:15	20:37		
19	07:24	09:02 (WTG 05)	06:52	16:46 (WTG 03)	06:08		06:53 (8)	06:17	05:39	05:27		
	17:00	44 09:46 (WTG 05)	17:38	14 17:00 (WTG 03)	18:11	18	07:11 (8)	19:45	20:16	20:37		
20	07:23	09:02 (WTG 05)	06:51	16:49 (WTG 03)	06:06		06:54 (8)	06:15	05:38	05:27		
	17:01	44 09:46 (WTG 05)	17:40	9 16:58 (WTG 03)	18:12	17	07:11 (8)	19:46	20:17	20:38		
21	07:22	09:02 (WTG 05)	06:49		06:04		06:55 (8)	06:14	05:37	05:27		
	17:02	45 09:47 (WTG 05)	17:41		18:13	14	07:09 (8)	19:47	20:18	20:38		
22	07:22	09:02 (WTG 05)	06:48		06:03		06:56 (8)	06:12	05:37	05:27		
	17:03	46 09:48 (WTG 05)	17:42		18:14	11	07:07 (8)	19:48	20:19	20:38		
23	07:21	09:02 (WTG 05)	06:46		06:01		06:59 (8)	06:11	05:36	05:28		
	17:05	46 09:48 (WTG 05)	17:43		18:15	5	07:04 (8)	19:49	20:20	20:38		
24	07:20	09:02 (WTG 05)	06:45		05:59			06:09	05:35	05:28		
	17:06	46 09:48 (WTG 05)	17:45		18:16			19:50	20:21	20:39		
25	07:20	09:02 (WTG 05)	06:43		05:58			06:08	05:34	05:28		
	17:07	47 09:49 (WTG 05)	17:46		18:18			19:51	20:22	20:39		
26	07:19	09:02 (WTG 05)	06:42		05:56			06:06	05:34	05:28		
	17:08	48 09:50 (WTG 05)	17:47		18:19			19:52	20:23	20:39		
27	07:18	09:02 (WTG 05)	06:40		05:54			06:05	05:33	05:29		
	17:10	48 09:50 (WTG 05)	17:48		18:20			19:53	20:24	20:39		
28	07:17	09:02 (WTG 05)	06:39		05:53			06:03	05:32	05:29		
	17:11	48 09:50 (WTG 05)	17:49		18:21			19:54	20:24	20:39		
29	07:16	09:03 (WTG 05)			06:51			06:02	05:32	05:30		
	17:12	47 09:50 (WTG 05)			19:22			19:55	20:25	20:39		
30	07:15	09:03 (WTG 05)			06:49			06:01	05:31	05:30		
	17:13	47 09:50 (WTG 05)			19:23			19:57	20:26	20:39		
31	07:15	09:03 (WTG 05)			06:47				05:31			
	17:15	47 09:50 (WTG 05)			19:24				20:27			
Ore potenziali eliofania	296		297		369		399	449	454			
Totale, caso peggiore	1189		800		193							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 71 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (329)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre		
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44		07:37 (8) 07:51 (8)	06:31 16:57	08:38 (WTG 05) 16:32 (WTG 03)	07:07 16:32	08:46 (WTG 05) 09:21 (WTG 05)
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	14	07:39 (8) 07:48 (8)	06:33 16:56	08:37 (WTG 05) 16:31 (WTG 03)	07:08 16:32	08:47 (WTG 05) 09:21 (WTG 05)
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	9		06:34 16:55	08:37 (WTG 05) 16:31 (WTG 03)	07:09 16:32	08:48 (WTG 05) 09:20 (WTG 05)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39			06:35 16:54	08:36 (WTG 05) 16:29 (WTG 03)	07:10 16:32	08:49 (WTG 05) 09:20 (WTG 05)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38			06:36 16:52	08:35 (WTG 05) 16:26 (WTG 03)	07:11 16:31	08:50 (WTG 05) 09:20 (WTG 05)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36			06:37 16:51	08:35 (WTG 05) 09:19 (WTG 05)	07:12 16:31	08:51 (WTG 05) 09:19 (WTG 05)
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34			06:39 16:50	08:34 (WTG 05) 09:19 (WTG 05)	07:13 16:31	08:52 (WTG 05) 09:19 (WTG 05)
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33			06:40 16:49	08:34 (WTG 05) 09:20 (WTG 05)	07:14 16:31	08:54 (WTG 05) 09:19 (WTG 05)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31			06:41 16:48	08:34 (WTG 05) 09:21 (WTG 05)	07:15 16:31	08:55 (WTG 05) 09:19 (WTG 05)
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29			06:42 16:47	08:34 (WTG 05) 09:21 (WTG 05)	07:16 16:31	08:55 (WTG 05) 09:17 (WTG 05)
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28			06:44 16:46	08:34 (WTG 05) 09:21 (WTG 05)	07:16 16:31	08:57 (WTG 05) 09:17 (WTG 05)
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26			06:45 16:45	08:34 (WTG 05) 09:21 (WTG 05)	07:17 16:31	08:58 (WTG 05) 09:17 (WTG 05)
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25			06:46 16:44	08:34 (WTG 05) 09:22 (WTG 05)	07:18 16:31	08:59 (WTG 05) 09:17 (WTG 05)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23			06:47 16:43	08:34 (WTG 05) 09:22 (WTG 05)	07:19 16:32	09:01 (WTG 05) 09:17 (WTG 05)
15	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21			06:48 16:42	08:34 (WTG 05) 09:22 (WTG 05)	07:20 16:32	09:01 (WTG 05) 09:16 (WTG 05)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20			06:50 16:41	08:35 (WTG 05) 09:23 (WTG 05)	07:20 16:32	09:03 (WTG 05) 09:16 (WTG 05)
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18			06:51 16:40	08:36 (WTG 05) 09:23 (WTG 05)	07:21 16:32	09:04 (WTG 05) 09:16 (WTG 05)
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17			06:52 16:40	08:36 (WTG 05) 09:22 (WTG 05)	07:22 16:33	09:05 (WTG 05) 09:15 (WTG 05)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15			06:53 16:39	08:36 (WTG 05) 09:22 (WTG 05)	07:22 16:33	09:06 (WTG 05) 09:16 (WTG 05)
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14			06:54 16:38	08:37 (WTG 05) 09:23 (WTG 05)	07:23 16:33	09:06 (WTG 05) 09:15 (WTG 05)
21	05:44 20:30	06:15 19:53	06:46 19:02	07:19 (8) 18:12			06:56 16:37	08:38 (WTG 05) 09:23 (WTG 05)	07:23 16:34	09:08 (WTG 05) 09:16 (WTG 05)
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 (8) 18:11		17:19 (WTG 03)	06:57 16:37	08:38 (WTG 05) 09:22 (WTG 05)	07:24 16:34	09:08 (WTG 05) 09:16 (WTG 05)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 (8) 18:09	14	17:29 (WTG 03)	06:58 16:36	08:38 (WTG 05) 09:22 (WTG 05)	07:24 16:35	09:08 (WTG 05) 09:17 (WTG 05)
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 (8) 18:08	14	17:31 (WTG 03)	06:59 16:35	08:40 (WTG 05) 09:23 (WTG 05)	07:25 16:35	09:08 (WTG 05) 09:18 (WTG 05)
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 (8) 17:07	17	17:32 (WTG 03)	07:00 16:35	08:41 (WTG 05) 09:22 (WTG 05)	07:25 16:36	09:09 (WTG 05) 09:19 (WTG 05)
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 (8) 17:05	18	16:32 (WTG 03)	07:01 16:34	08:41 (WTG 05) 09:22 (WTG 05)	07:26 16:37	09:08 (WTG 05) 09:20 (WTG 05)
27	05:50 20:24	06:21 19:44	06:52 18:51	07:26 (8) 17:04	20	16:34 (WTG 03)	07:02 16:34	08:42 (WTG 05) 09:22 (WTG 05)	07:26 16:37	09:08 (WTG 05) 09:21 (WTG 05)
28	05:51 20:23	06:22 19:42	06:54 18:50	07:27 (8) 17:02	36	16:34 (WTG 03)	07:04 16:33	08:43 (WTG 05) 09:21 (WTG 05)	07:26 16:38	09:07 (WTG 05) 09:22 (WTG 05)
29	05:52 20:22	06:23 19:40	06:55 18:48	07:28 (8) 17:01	43	16:33 (WTG 03)	07:05 16:33	08:43 (WTG 05) 09:21 (WTG 05)	07:27 16:39	09:08 (WTG 05) 09:24 (WTG 05)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 (8) 17:00	47	16:33 (WTG 03)	07:06 16:33	08:45 (WTG 05) 09:21 (WTG 05)	07:27 16:39	09:08 (WTG 05) 09:25 (WTG 05)
31	05:54 20:20	06:25 19:37		06:30 16:58	51	16:33 (WTG 03)	07:05 16:33	08:39 (WTG 05)	07:27 16:40	09:07 (WTG 05) 09:26 (WTG 05)
Ore potenziali eliofanìa	460	429	375	345	297	1377	286	567		
Totale, caso peggiore			170	332						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 72 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (330)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	17:10 (WTG 03) 17:29 (WTG 03)	06:46 19:25	08:15 (WTG 05) 19:58
2	07:27 16:42	07:13 17:17	06:36 17:52	17:10 (WTG 03) 17:30 (WTG 03)	06:44 19:26	08:17 (WTG 05) 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	17:09 (WTG 03) 17:31 (WTG 03)	06:42 19:27	08:19 (WTG 05) 20:00
4	07:28 16:44	07:11 17:20	06:32 17:54	17:08 (WTG 03) 17:32 (WTG 03)	06:41 19:28	08:21 (WTG 05) 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	17:09 (WTG 03) 17:34 (WTG 03)	06:39 19:30	08:37 (WTG 05) 20:02
6	07:28 16:46	07:08 17:22	06:29 17:56	17:09 (WTG 03) 17:33 (WTG 03)	06:37 19:31	05:53 20:03
7	07:27 16:47	07:07 17:24	06:28 17:58	07:32 (WTG 05) 17:33 (WTG 03)	06:36 19:32	05:52 20:04
8	07:27 16:48	07:06 17:25	06:26 17:59	07:28 (WTG 05) 17:32 (WTG 03)	06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	06:24 18:00	07:25 (WTG 05) 17:31 (WTG 03)	06:33 19:34	05:49 20:06
10	07:27 16:50	07:04 17:27	06:23 18:01	07:23 (WTG 05) 17:30 (WTG 03)	06:31 19:35	06:54 (8) 07:03 (8)
11	07:27 16:51	07:03 17:29	06:21 18:02	07:21 (WTG 05) 17:27 (WTG 03)	06:29 19:36	06:52 (8) 07:05 (8)
12	07:27 16:52	07:01 17:30	06:19 18:03	07:19 (WTG 05) 17:24 (WTG 03)	06:28 19:37	06:50 (8) 07:05 (8)
13	07:26 16:53	07:00 17:31	06:18 18:04	07:19 (WTG 05) 07:58 (WTG 05)	06:26 19:38	06:50 (8) 07:06 (8)
14	07:26 16:54	06:59 17:32	06:16 18:05	07:17 (WTG 05) 07:58 (WTG 05)	06:24 19:39	06:49 (8) 07:06 (8)
15	07:26 16:55	06:57 17:34	06:14 18:07	07:16 (WTG 05) 07:59 (WTG 05)	06:23 19:40	06:49 (8) 07:06 (8)
16	07:25 16:56	06:56 17:35	06:13 18:08	07:15 (WTG 05) 08:00 (WTG 05)	06:21 19:41	06:48 (8) 07:05 (8)
17	07:25 16:58	06:55 17:36	06:11 18:09	07:14 (WTG 05) 07:59 (WTG 05)	06:20 19:43	06:49 (8) 07:05 (8)
18	07:24 16:59	06:52 17:37	06:09 18:10	07:13 (WTG 05) 07:59 (WTG 05)	06:18 19:44	06:49 (8) 07:03 (8)
19	07:24 17:00	06:52 17:39	06:08 18:11	07:12 (WTG 05) 07:59 (WTG 05)	06:17 19:45	06:50 (8) 07:03 (8)
20	07:23 17:01	06:51 17:40	06:06 18:12	07:13 (WTG 05) 07:59 (WTG 05)	06:15 19:46	06:51 (8) 07:00 (8)
21	07:22 17:02	06:49 17:41	06:04 18:13	07:12 (WTG 05) 07:58 (WTG 05)	06:14 19:47	05:37 20:18
22	07:22 17:03	06:48 17:42	06:03 18:14	07:11 (WTG 05) 07:58 (WTG 05)	06:12 19:48	05:37 20:19
23	07:21 17:05	06:46 17:43	06:01 18:15	07:12 (WTG 05) 07:58 (WTG 05)	06:11 19:49	05:36 20:20
24	07:20 17:06	06:45 17:45	05:59 18:16	07:11 (WTG 05) 07:57 (WTG 05)	06:09 19:50	05:35 20:21
25	07:20 17:07	06:43 17:46	05:58 18:18	07:11 (WTG 05) 07:56 (WTG 05)	06:08 19:51	05:34 20:22
26	07:19 17:08	06:42 17:47	05:56 18:19	07:12 (WTG 05) 07:55 (WTG 05)	06:06 19:52	05:34 20:23
27	07:18 17:10	06:40 17:48	05:54 18:20	07:12 (WTG 05) 07:54 (WTG 05)	06:05 19:53	05:33 20:24
28	07:17 17:11	06:39 17:49	05:53 18:21	07:12 (WTG 05) 07:52 (WTG 05)	06:04 19:54	05:32 20:24
29	07:16 17:12		06:51 19:22	08:12 (WTG 05) 08:51 (WTG 05)	06:02 19:55	05:32 20:25
30	07:16 17:13		06:49 19:23	08:14 (WTG 05) 08:50 (WTG 05)	06:01 19:57	05:31 20:26
31	07:15 17:15		06:47 19:24	08:14 (WTG 05) 08:48 (WTG 05)		05:31 20:27
Ore potenziali eliofania	296	297	369	399	252	449
Totale, caso peggiore		47	1230			454

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 72 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (330)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	05:30 20:39	05:55 20:19	06:26 19:36	06:51 (8) 07:03 (8)	06:57 18:44	07:58 (WTG 05) 18:00 (WTG 03)	06:31 16:57	07:07 16:32
2	05:31 20:38	05:56 20:18	06:27 19:34	06:52 (8) 07:01 (8)	06:58 18:43	07:59 (WTG 05) 18:05 (WTG 03)	06:33 16:56	07:08 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:59 18:41	08:00 (WTG 05) 18:07 (WTG 03)	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	07:00 18:39	08:02 (WTG 05) 18:08 (WTG 03)	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	07:01 18:38	08:03 (WTG 05) 18:08 (WTG 03)	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	07:02 18:36	08:06 (WTG 05) 18:09 (WTG 03)	06:37 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	07:03 18:34	08:10 (WTG 05) 18:09 (WTG 03)	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	08:17 (WTG 05) 08:31 (WTG 05)	07:04 18:33	17:44 (WTG 03) 18:09 (WTG 03)	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	08:13 (WTG 05) 08:35 (WTG 05)	07:05 18:31	17:44 (WTG 03) 18:09 (WTG 03)	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	08:11 (WTG 05) 08:37 (WTG 05)	07:06 18:29	17:44 (WTG 03) 18:07 (WTG 03)	06:42 16:47	07:16 16:31
11	05:36 20:36	06:05 20:07	06:36 19:19	08:09 (WTG 05) 08:38 (WTG 05)	07:07 18:28	17:44 (WTG 03) 18:05 (WTG 03)	06:44 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	08:07 (WTG 05) 08:40 (WTG 05)	07:08 18:26	17:44 (WTG 03) 18:03 (WTG 03)	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	08:05 (WTG 05) 08:41 (WTG 05)	07:10 18:25	17:44 (WTG 03) 18:02 (WTG 03)	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	08:04 (WTG 05) 08:42 (WTG 05)	07:11 18:23	17:45 (WTG 03) 18:00 (WTG 03)	06:47 16:43	07:19 16:32
15	05:39 20:34	06:09 20:02	06:40 19:12	08:03 (WTG 05) 08:42 (WTG 05)	07:12 18:22	17:45 (WTG 03) 17:58 (WTG 03)	06:48 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	08:01 (WTG 05) 08:43 (WTG 05)	07:13 18:20	17:48 (WTG 03) 17:57 (WTG 03)	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	08:00 (WTG 05) 08:43 (WTG 05)	07:14 18:18	17:50 (WTG 03) 17:55 (WTG 03)	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	08:00 (WTG 05) 08:44 (WTG 05)	07:15 18:17	17:55 (WTG 03) 17:55 (WTG 03)	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:59 (WTG 05) 08:44 (WTG 05)	07:16 18:15	17:55 (WTG 03) 18:15	06:53 16:39	07:22 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	07:58 (WTG 05) 08:44 (WTG 05)	07:17 18:14	17:58 (WTG 03) 18:14	06:54 16:38	07:23 16:33
21	05:44 20:30	06:15 19:53	06:46 19:02	07:58 (WTG 05) 08:44 (WTG 05)	07:19 18:12	17:58 (WTG 03) 18:12	06:55 16:37	07:23 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	07:57 (WTG 05) 08:44 (WTG 05)	07:20 18:11	17:57 (WTG 03) 18:11	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:57 (WTG 05) 08:43 (WTG 05)	07:21 18:09	17:57 (WTG 03) 18:09	06:58 16:36	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	07:57 (WTG 05) 08:43 (WTG 05)	07:22 18:08	17:57 (WTG 03) 18:08	06:59 16:35	07:25 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:57 (WTG 05) 08:43 (WTG 05)	06:23 17:07	17:57 (WTG 03) 17:07	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:57 (WTG 05) 08:42 (WTG 05)	06:24 17:05	17:07 (WTG 03) 17:05	07:01 16:34	07:26 16:37
27	05:50 20:24	06:21 19:44	06:52 18:51	07:57 (WTG 05) 08:41 (WTG 05)	06:26 17:04	17:07 (WTG 03) 17:04	07:02 16:34	07:26 16:37
28	05:51 20:23	06:22 19:42	06:53 18:50	07:57 (WTG 05) 08:40 (WTG 05)	06:27 17:02	17:07 (WTG 03) 17:02	07:04 16:33	07:26 16:38
29	05:52 20:22	06:23 19:40	06:54 18:48	07:57 (WTG 05) 08:39 (WTG 05)	06:28 17:01	17:07 (WTG 03) 17:01	07:05 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:55 18:46	07:58 (WTG 05) 08:38 (WTG 05)	06:29 17:00	17:07 (WTG 03) 17:00	07:06 16:33	07:27 16:39
31	05:54 20:20	06:25 19:37	06:56 18:46	07:58 (WTG 05) 08:38 (WTG 05)	06:30 16:58	17:07 (WTG 03) 16:58	07:07 16:40	07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	345	297	286	108
Totale, caso peggiore			133	923	488			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 73 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (378)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	05:59 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:07 16:32
2	07:27 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:18	06:34 17:53	06:42 19:27	05:57 19:59	05:29 20:29	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:32 17:54	06:41 19:28	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32
5	07:28 16:45	07:09 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:30	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31
6	07:28 16:46	07:08 17:22	06:29 17:56	06:37 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:13	06:31 19:27	07:02 18:36	06:37 16:51	07:12 16:31
7	07:27 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:32	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:24 18:00	06:33 19:34	05:49 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:30	06:42 16:47	07:15 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	07:26 16:52	07:01 17:30	06:19 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:05	06:24 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:25 16:55	06:57 17:34	06:14 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:41	05:42 20:13	05:27 20:36	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:42	05:41 20:14	05:27 20:37	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:53 17:37	06:09 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:37	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:37 20:18	05:27 20:38	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34
22	07:22 17:03	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:28 20:38	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35
24	07:20 17:06	06:45 17:45	05:59 18:16	06:09 19:50	05:35 20:21	05:28 20:38	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:36	07:25 16:35
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35	07:25 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:23	05:29 20:39	05:50 20:24	06:21 19:44	06:52 18:51	07:25 17:04	07:02 16:34	07:26 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24	05:29 20:39	05:51 20:23	06:22 19:42	06:54 18:50	07:26 17:02	07:04 16:34	07:26 16:38
29	07:16 17:12		06:51 19:22	06:02 19:55	05:32 20:25	05:30 20:39	05:52 20:22	06:23 19:40	06:55 18:48	07:27 17:01	07:05 16:33	07:27 16:39
30	07:15 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:21	06:24 19:39	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:39
31	07:15 17:15		06:47 19:24		05:31 20:27		05:54 20:20	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	287
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 74 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (379)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:50	06:46 19:25	05:59 19:58	05:30 20:28	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:25 (8) 16:32
2	07:27 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:26 (8) 16:32
3	07:28 16:43	07:12 17:18	06:34 17:53	06:42 19:27	05:57 20:00	05:29 20:29	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:28 (8) 16:32
4	07:28 16:44	07:11 17:20	06:32 17:54	06:41 19:28	05:55 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:31 (8) 16:32
5	07:28 16:45	07:09 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:30	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31
6	07:28 16:46	07:08 17:22	06:29 17:56	06:37 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:37 16:51	07:12 16:31
7	07:27 16:47	07:07 17:23	06:28 18:00 (8)	06:36 17:57	05:52 19:32	05:28 20:04	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 18:13 (8)	06:34 17:59	05:51 19:33	05:27 20:05	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:24 18:14 (8)	06:32 18:00	05:49 19:34	05:27 20:06	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:11 (8)	06:31 18:01	05:48 19:35	05:27 20:07	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:16 (8)	06:29 18:02	05:47 19:36	05:27 20:08	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	07:27 16:52	07:01 17:30	06:19 18:17 (8)	06:28 18:03	05:46 19:37	05:27 20:09	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:18 (8)	06:26 18:04	05:45 19:38	05:27 20:10	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:19 (8)	06:24 18:05	05:44 19:39	05:27 20:11	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:25 16:55	06:57 17:34	06:14 18:18 (8)	06:23 18:07	05:43 19:40	05:27 20:12	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	06:48 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:18 (8)	06:21 18:08	05:42 19:41	05:27 20:13	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:57	06:55 17:36	06:11 18:18 (8)	06:11 18:09	05:41 19:42	05:27 20:14	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:53 17:37	06:09 18:17 (8)	06:18 18:10	05:40 19:44	05:27 20:15	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:38	06:08 18:18 (8)	06:17 18:11	05:39 19:45	05:27 20:16	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:40	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:15 (8)	06:15 18:12	05:38 19:46	05:27 20:17	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:33
21	07:22 17:02	06:49 17:41	06:04 18:14 (8)	06:14 18:13	05:37 19:47	05:27 20:18	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34
22	07:22 17:03	06:48 17:42	06:03 18:12 (8)	06:12 18:14	05:37 19:48	05:27 20:19	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:10 (8)	06:11 18:15	05:36 19:49	05:28 20:20	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35
24	07:20 17:06	06:45 17:45	06:00 18:16 (8)	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:35	07:25 16:35
25	07:20 17:07	06:43 17:46	06:00 18:18 (8)	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:50 18:55	06:23 17:07	07:00 16:35	07:25 16:36
26	07:19 17:08	06:42 17:47	06:00 18:19 (8)	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:25	06:20 19:45	06:51 18:53	06:24 17:05	07:01 16:36	07:26 16:37
27	07:18 17:10	06:40 17:48	06:00 18:20 (8)	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:24	06:21 19:44	06:52 18:51	06:26 17:04	07:02 16:37	07:26 16:38
28	07:17 17:11	06:39 17:49	06:00 18:21 (8)	06:03 19:54	05:32 20:24	05:29 20:39	05:51 20:23	06:22 19:42	06:53 18:50	06:27 17:02	07:04 16:38	07:26 16:39
29	07:16 17:12	06:38 17:50	06:00 18:22 (8)	06:02 19:55	05:32 20:25	05:30 20:39	05:52 20:22	06:23 19:40	06:55 18:48	06:28 17:01	07:05 16:39	07:27 16:40
30	07:15 17:13	06:37 17:49	06:00 18:23 (8)	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:21	06:24 19:39	06:56 18:46	06:29 17:00	07:06 16:40	07:27 16:41
31	07:15 17:15	06:37 17:51	06:00 18:24 (8)	06:01 19:58	05:31 20:27	05:30 20:40	05:54 20:20	06:25 19:37	06:30 18:58	06:30 17:46 (8)	07:06 16:40	07:27 16:41
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	283	286
Totale, caso peggiore		337									58	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 75 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (380)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		11:11 (WTG 05)	07:14		06:37		07:48 (8)	06:46		05:59	05:30
	16:41	16	11:27 (WTG 05)	17:16		17:50	19	08:07 (8)	19:25		19:58	20:28
2	07:27		11:13 (WTG 05)	07:13		06:36		07:51 (8)	06:44		05:58	05:30
	16:42	12	11:25 (WTG 05)	17:17		17:52	14	08:05 (8)	19:26		19:59	20:28
3	07:28		11:15 (WTG 05)	07:12		06:34		07:54 (8)	06:42		05:57	05:29
	16:43	8	11:23 (WTG 05)	17:18		17:53	6	08:00 (8)	19:27		20:00	20:29
4	07:28			07:11		06:32			06:41		05:55	05:29
	16:44			17:20		17:54			19:28		20:01	20:30
5	07:28			07:09		06:31			06:39		05:54	05:28
	16:45			17:21		17:55			19:30		20:02	20:30
6	07:28			07:08		06:29			06:37		05:53	05:28
	16:46			17:22		17:56			19:31		20:03	20:31
7	07:27			07:07		06:28			06:36		05:52	05:28
	16:47			17:23		17:57			19:32		20:04	20:32
8	07:27			07:06		06:26			06:34		05:51	05:27
	16:48			17:25		17:59			19:33		20:05	20:32
9	07:27			07:05		06:24			06:32		05:49	05:27
	16:49			17:26		18:00			19:34		20:06	20:33
10	07:27			07:04		06:23			06:31		05:48	05:27
	16:50			17:27		18:01			19:35		20:07	20:34
11	07:27			07:03		06:21			06:29		05:47	05:27
	16:51			17:29		18:02			19:36		20:08	20:34
12	07:27			07:01		06:19			06:28		05:46	05:27
	16:52			17:30		18:03			19:37		20:09	20:35
13	07:26			07:00		07:55 (8)	06:18		06:26		05:45	05:27
	16:53			17:31	10	08:05 (8)	18:04		19:38		20:10	20:35
14	07:26			06:59		07:52 (8)	06:16		06:24		05:44	05:27
	16:54			17:32	15	08:07 (8)	18:05		19:39		20:11	20:36
15	07:25			06:57		07:50 (8)	06:14		06:23		05:43	05:27
	16:55			17:34	19	08:09 (8)	18:07		19:40		20:12	20:36
16	07:25			06:56		07:49 (8)	06:13		06:21		05:42	05:27
	16:56			17:35	22	08:11 (8)	18:08		19:41		20:13	20:36
17	07:25			06:55		07:48 (8)	06:11		06:20		05:41	05:27
	16:57			17:36	23	08:11 (8)	18:09		19:42		20:14	20:37
18	07:24			06:53		07:47 (8)	06:09		06:18		05:40	05:27
	16:59			17:37	25	08:12 (8)	18:10		19:44		20:15	20:37
19	07:24			06:52		07:46 (8)	06:08		06:17		05:39	05:27
	17:00			17:38	26	08:12 (8)	18:11		19:45		20:16	20:37
20	07:23			06:51		07:46 (8)	06:06		06:15		05:38	05:27
	17:01			17:40	27	08:13 (8)	18:12		19:46		20:17	20:38
21	07:22			06:49		07:45 (8)	06:04		06:14		05:37	05:27
	17:02			17:41	28	08:13 (8)	18:13		19:47		20:18	20:38
22	07:22			06:48		07:45 (8)	06:03		06:12		05:37	05:27
	17:03			17:42	28	08:13 (8)	18:14		19:48		20:19	20:38
23	07:21			06:46		07:45 (8)	06:01		06:11		05:36	05:28
	17:05			17:43	27	08:12 (8)	18:15		19:49		20:20	20:38
24	07:20			06:45		07:45 (8)	05:59		06:09		05:35	05:28
	17:06			17:45	27	08:12 (8)	18:16		19:50		20:21	20:39
25	07:20			06:43		07:45 (8)	05:58		06:08		05:34	05:28
	17:07			17:46	26	08:11 (8)	18:18		19:51		20:22	20:39
26	07:19			06:42		07:46 (8)	05:56		06:06		05:34	05:28
	17:08			17:47	25	08:11 (8)	18:19		19:52		20:23	20:39
27	07:18			06:40		07:46 (8)	05:54		06:05		05:33	05:29
	17:10			17:48	24	08:10 (8)	18:20		19:53		20:24	20:39
28	07:17			06:39		07:48 (8)	05:53		06:03		05:32	05:29
	17:11			17:49	21	08:09 (8)	18:21		19:54		20:24	20:39
29	07:16						06:51		06:02		05:32	05:30
	17:12						19:22		19:55		20:25	20:39
30	07:15						06:49		06:01		05:31	05:30
	17:13						19:23		19:57		20:26	20:39
31	07:15						06:47				05:31	
	17:15						19:24				20:27	
Ore potenziali eliofania	296			297			369		399		449	454
Totale, caso peggiore	36			373			39					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
 Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 75 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (380)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre	Dicembre	
1	05:30	05:55	06:26	06:57		06:31	07:07	
	20:39	20:19	19:36	18:44		16:57	16:32	
2	05:31	05:56	06:27	06:58		06:33	07:08	
	20:38	20:18	19:34	18:43		16:56	16:32	
3	05:31	05:57	06:28	06:59		06:34	07:09	
	20:38	20:17	19:32	18:41		16:55	16:32	
4	05:32	05:58	06:29	07:00		06:35	07:10	
	20:38	20:16	19:31	18:39		16:53	16:32	
5	05:33	05:59	06:30	07:01		06:36	07:11	
	20:38	20:15	19:29	18:38		16:52	16:31	
6	05:33	06:00	06:31	07:02		06:37	07:12	
	20:38	20:14	19:27	18:36		16:51	16:31	
7	05:34	06:01	06:32	07:03		06:39	07:13	
	20:37	20:12	19:26	18:34		16:50	16:31	
8	05:34	06:02	06:33	07:04		06:40	07:14	
	20:37	20:11	19:24	18:33		16:49	16:31	
9	05:35	06:03	06:34	07:05		06:41	07:15	11:05 (WTG 05)
	20:37	20:10	19:22	18:31		16:48	16:31	7 11:12 (WTG 05)
10	05:36	06:04	06:35	07:06		06:42	07:16	11:02 (WTG 05)
	20:36	20:08	19:21	18:29		16:47	16:31	12 11:14 (WTG 05)
11	05:36	06:05	06:36	07:07	08:26 (8)	06:44	07:16	11:01 (WTG 05)
	20:36	20:07	19:19	18:28	11 08:37 (8)	16:46	16:31	15 11:16 (WTG 05)
12	05:37	06:06	06:37	07:08	08:23 (8)	06:45	07:17	11:00 (WTG 05)
	20:35	20:06	19:17	18:26	16 08:39 (8)	16:45	16:31	18 11:18 (WTG 05)
13	05:38	06:07	06:38	07:10	08:21 (8)	06:46	07:18	11:00 (WTG 05)
	20:35	20:04	19:15	18:25	20 08:41 (8)	16:44	16:31	20 11:20 (WTG 05)
14	05:39	06:08	06:39	07:11	08:19 (8)	06:47	07:19	11:00 (WTG 05)
	20:34	20:03	19:14	18:23	23 08:42 (8)	16:43	16:32	21 11:21 (WTG 05)
15	05:39	06:09	06:40	07:12	08:18 (8)	06:48	07:20	10:59 (WTG 05)
	20:34	20:02	19:12	18:21	24 08:42 (8)	16:42	16:32	23 11:22 (WTG 05)
16	05:40	06:10	06:41	07:13	08:17 (8)	06:50	07:20	10:59 (WTG 05)
	20:33	20:00	19:10	18:20	26 08:43 (8)	16:41	16:32	24 11:23 (WTG 05)
17	05:41	06:11	06:42	07:14	08:17 (8)	06:51	07:21	11:00 (WTG 05)
	20:32	19:59	19:09	18:18	27 08:44 (8)	16:40	16:32	24 11:24 (WTG 05)
18	05:42	06:12	06:43	07:15	08:17 (8)	06:52	07:22	10:59 (WTG 05)
	20:32	19:57	19:07	18:17	27 08:44 (8)	16:40	16:33	26 11:25 (WTG 05)
19	05:43	06:13	06:44	07:16	08:16 (8)	06:53	07:22	11:00 (WTG 05)
	20:31	19:56	19:05	18:15	28 08:44 (8)	16:39	16:33	26 11:26 (WTG 05)
20	05:44	06:14	06:45	07:17	08:16 (8)	06:54	07:23	11:00 (WTG 05)
	20:30	19:54	19:03	18:14	28 08:44 (8)	16:38	16:33	26 11:26 (WTG 05)
21	05:44	06:15	06:46	07:19	08:16 (8)	06:56	07:23	11:00 (WTG 05)
	20:30	19:53	19:02	18:12	27 08:43 (8)	16:37	16:34	27 11:27 (WTG 05)
22	05:45	06:16	06:47	07:20	08:16 (8)	06:57	07:24	11:00 (WTG 05)
	20:29	19:51	19:00	18:11	27 08:43 (8)	16:37	16:34	27 11:27 (WTG 05)
23	05:46	06:17	06:48	07:21	08:17 (8)	06:58	07:24	11:01 (WTG 05)
	20:28	19:50	18:58	18:09	26 08:43 (8)	16:36	16:35	27 11:28 (WTG 05)
24	05:47	06:18	06:49	07:22	08:17 (8)	06:59	07:25	11:02 (WTG 05)
	20:27	19:48	18:56	18:08	25 08:42 (8)	16:35	16:35	26 11:28 (WTG 05)
25	05:48	06:19	06:50	06:23	07:17 (8)	07:00	07:25	11:03 (WTG 05)
	20:26	19:47	18:55	17:07	24 07:41 (8)	16:35	16:36	26 11:29 (WTG 05)
26	05:49	06:20	06:51	06:24	07:19 (8)	07:01	07:26	11:03 (WTG 05)
	20:25	19:45	18:53	17:05	21 07:40 (8)	16:34	16:37	25 11:28 (WTG 05)
27	05:50	06:21	06:52	06:26	07:20 (8)	07:02	07:26	11:04 (WTG 05)
	20:24	19:44	18:51	17:04	18 07:38 (8)	16:34	16:37	24 11:28 (WTG 05)
28	05:51	06:22	06:53	06:27	07:22 (8)	07:04	07:26	11:05 (WTG 05)
	20:23	19:42	18:50	17:02	14 07:36 (8)	16:33	16:38	23 11:28 (WTG 05)
29	05:52	06:23	06:55	06:28	07:25 (8)	07:05	07:27	11:06 (WTG 05)
	20:22	19:40	18:48	17:01	8 07:33 (8)	16:33	16:39	23 11:29 (WTG 05)
30	05:53	06:24	06:56	06:29		07:06	07:27	11:07 (WTG 05)
	20:21	19:39	18:46	17:00		16:33	16:39	21 11:28 (WTG 05)
31	05:54	06:25		06:30			07:27	11:09 (WTG 05)
	20:20	19:37		16:58			16:40	19 11:28 (WTG 05)
Ore potenziali eliofanìa	460	429	375	345		297	286	
Totale, caso peggiore				420			510	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 76 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (381)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	11:30 (WTG 05)	07:14	06:37	07:45 (8)	06:46	05:59	05:30				
	16:41	32 12:02 (WTG 05)	17:16	17:50	28 08:13 (8)	19:25	19:58	20:28				
2	07:27	11:31 (WTG 05)	07:13	06:36	07:46 (8)	06:44	05:58	05:30				
	16:42	31 12:02 (WTG 05)	17:17	17:52	27 08:13 (8)	19:26	19:59	20:28				
3	07:28	11:32 (WTG 05)	07:12	06:34	07:46 (8)	06:42	05:57	05:29				
	16:43	29 12:01 (WTG 05)	17:18	17:53	25 08:11 (8)	19:27	20:00	20:29				
4	07:28	11:33 (WTG 05)	07:11	06:32	07:47 (8)	06:41	05:55	05:29				
	16:44	28 12:01 (WTG 05)	17:20	17:54	22 08:09 (8)	19:28	20:01	20:30				
5	07:28	11:35 (WTG 05)	07:09	06:31	07:49 (8)	06:39	05:54	05:28				
	16:45	25 12:00 (WTG 05)	17:21	17:55	19 08:08 (8)	19:29	20:02	20:30				
6	07:28	11:37 (WTG 05)	07:08	06:29	07:50 (8)	06:37	05:53	05:28				
	16:46	22 11:59 (WTG 05)	17:22	17:56	15 08:05 (8)	19:31	20:03	20:31				
7	07:27	11:39 (WTG 05)	07:07	06:28	07:55 (8)	06:36	05:52	05:28				
	16:47	19 11:58 (WTG 05)	17:23	17:57	6 08:01 (8)	19:32	20:04	20:32				
8	07:27	11:41 (WTG 05)	07:06	06:26		06:34	05:51	05:27				
	16:48	14 11:55 (WTG 05)	17:25	17:59		19:33	20:05	20:32				
9	07:27	11:47 (WTG 05)	07:05	06:24		06:32	05:49	05:27				
	16:49	4 11:51 (WTG 05)	17:26	18:00		19:34	20:06	20:33				
10	07:27		07:04	06:23		06:31	05:48	05:27				
	16:50		17:27	18:01		19:35	20:07	20:34				
11	07:27		07:03	06:21		06:29	05:47	05:27				
	16:51		17:29	18:02		19:36	20:08	20:34				
12	07:27		07:01	06:19		06:28	05:46	05:27				
	16:52		17:30	18:03		19:37	20:09	20:35				
13	07:26		07:00	06:18		06:26	05:45	05:27				
	16:53		17:31	18:04		19:38	20:10	20:35				
14	07:26		06:59	06:16		06:24	05:44	05:27				
	16:54		17:32	18:05		19:39	20:11	20:36				
15	07:25		06:57	07:56 (8)	06:14	06:23	05:43	05:27				
	16:55		17:34	10 08:06 (8)	18:07	19:40	20:12	20:36				
16	07:25		06:56	07:53 (8)	06:13	06:21	05:42	05:27				
	16:56		17:35	17 08:10 (8)	18:08	19:41	20:13	20:36				
17	07:25		06:55	07:50 (8)	06:11	06:20	05:41	05:27				
	16:57		17:36	21 08:11 (8)	18:09	19:42	20:14	20:37				
18	07:24		06:53	07:49 (8)	06:09	06:18	05:40	05:27				
	16:59		17:37	24 08:13 (8)	18:10	19:44	20:15	20:37				
19	07:24		06:52	07:47 (8)	06:08	06:17	05:39	05:27				
	17:00		17:38	26 08:13 (8)	18:11	19:45	20:16	20:37				
20	07:23		06:51	07:47 (8)	06:06	06:15	05:38	05:27				
	17:01		17:40	28 08:15 (8)	18:12	19:46	20:17	20:38				
21	07:22		06:49	07:46 (8)	06:04	06:14	05:37	05:27				
	17:02		17:41	29 08:15 (8)	18:13	19:47	20:18	20:38				
22	07:22		06:48	07:45 (8)	06:03	06:12	05:37	05:27				
	17:03		17:42	30 08:15 (8)	18:14	19:48	20:19	20:38				
23	07:21		06:46	07:44 (8)	06:01	06:11	05:36	05:28				
	17:05		17:43	31 08:15 (8)	18:15	19:49	20:20	20:38				
24	07:20		06:45	07:45 (8)	05:59	06:09	05:35	05:28				
	17:06		17:45	31 08:16 (8)	18:16	19:50	20:21	20:38				
25	07:20		06:43	07:44 (8)	05:58	06:08	05:34	05:28				
	17:07		17:46	31 08:15 (8)	18:18	19:51	20:22	20:39				
26	07:19		06:42	07:44 (8)	05:56	06:06	05:34	05:28				
	17:08		17:47	31 08:15 (8)	18:19	19:52	20:23	20:39				
27	07:18		06:40	07:44 (8)	05:54	06:05	05:33	05:29				
	17:10		17:48	30 08:14 (8)	18:20	19:53	20:23	20:39				
28	07:17		06:39	07:45 (8)	05:52	06:03	05:32	05:29				
	17:11		17:49	29 08:14 (8)	18:21	19:54	20:24	20:39				
29	07:16				06:51	06:02	05:32	05:30				
	17:12				19:22	19:55	20:25	20:39				
30	07:15				06:49	06:01	05:31	05:30				
	17:13				19:23	19:57	20:26	20:39				
31	07:15				06:47		05:31					
	17:15				19:24		20:27					
Ore potenziali eliofania	296		297	369	399	449	454					
Totale, caso peggiore	204		368	142								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 76 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (381)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:07 16:32	
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32	
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32	2 11:32 (WTG 05)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:10 16:32	13 11:27 (WTG 05)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31	18 11:40 (WTG 05)
6	05:33 20:38	06:00 20:13	06:31 19:27	07:02 18:36	06:37 16:51	07:12 16:31	22 11:23 (WTG 05)
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31	25 11:45 (WTG 05)
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31	27 11:22 (WTG 05)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31	29 11:49 (WTG 05)
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47	07:16 16:31	30 11:50 (WTG 05)
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31	32 11:20 (WTG 05)
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31	33 11:52 (WTG 05)
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31	34 11:53 (WTG 05)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32	35 11:20 (WTG 05)
15	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	06:48 16:42	07:20 16:32	36 11:55 (WTG 05)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32	37 11:56 (WTG 05)
17	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32	37 11:57 (WTG 05)
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33	38 11:20 (WTG 05)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33	38 11:58 (WTG 05)
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:33	38 11:21 (WTG 05)
21	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34	38 11:59 (WTG 05)
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34	38 12:00 (WTG 05)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35	38 11:23 (WTG 05)
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:35	07:25 16:35	38 12:01 (WTG 05)
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	07:00 16:35	07:25 16:36	38 12:01 (WTG 05)
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37	38 11:24 (WTG 05)
27	05:50 20:24	06:21 19:44	06:52 18:51	07:25 17:04	07:02 16:34	07:26 16:37	38 12:02 (WTG 05)
28	05:51 20:23	06:22 19:42	06:53 18:50	07:26 17:02	07:04 16:33	07:26 16:38	37 11:25 (WTG 05)
29	05:52 20:22	06:23 19:40	06:55 18:48	07:28 17:01	07:05 16:33	07:27 16:39	37 12:02 (WTG 05)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 16:39	35 11:28 (WTG 05)
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 17:00	07:07 16:33	07:28 16:40	34 12:02 (WTG 05)
Ore potenziali eliofanìa	460	429	375	345	297	286	
Totale, caso peggiore				522		929	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 77 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (382)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		13:23 (WTG 05)	07:14		08:14 (8)	06:37		06:46		05:59	05:30
	16:41	47	15:48 (WTG 04)	17:16	48	09:02 (8)	17:50		19:25		19:58	20:28
2	07:27		13:24 (WTG 05)	07:13		08:14 (8)	06:36		06:44		05:58	05:30
	16:42	44	15:48 (WTG 04)	17:17	48	09:02 (8)	17:52		19:26		19:59	20:28
3	07:28		13:26 (WTG 05)	07:12		08:13 (8)	06:34		06:42		05:57	05:29
	16:43	40	15:47 (WTG 04)	17:18	50	09:03 (8)	17:53		19:27		20:00	20:29
4	07:28		13:27 (WTG 05)	07:11		08:13 (8)	06:32		06:41		05:55	05:29
	16:44	36	15:46 (WTG 04)	17:20	51	09:04 (8)	17:54		19:28		20:01	20:30
5	07:28		13:29 (WTG 05)	07:09		08:12 (8)	06:31		06:39		05:54	05:28
	16:45	26	13:55 (WTG 05)	17:21	51	09:03 (8)	17:55		19:29		20:02	20:30
6	07:28		13:30 (WTG 05)	07:08		08:12 (8)	06:29		06:37		05:53	05:28
	16:46	25	13:55 (WTG 05)	17:22	52	09:04 (8)	17:56		19:31		20:03	20:31
7	07:27		13:33 (WTG 05)	07:07		08:12 (8)	06:28		06:36		05:52	05:28
	16:47	21	13:54 (WTG 05)	17:23	52	09:04 (8)	17:57		19:32		20:04	20:32
8	07:27		13:34 (WTG 05)	07:06		08:12 (8)	06:26		06:34		05:51	05:27
	16:48	18	13:52 (WTG 05)	17:25	53	09:05 (8)	17:59		19:33		20:05	20:32
9	07:27		13:37 (WTG 05)	07:05		08:12 (8)	06:24		06:32		05:49	05:27
	16:49	13	13:50 (WTG 05)	17:26	53	09:05 (8)	18:00		19:34		20:06	20:33
10	07:27		13:43 (WTG 05)	07:04		08:11 (8)	06:23		06:31		05:48	05:27
	16:50	3	13:46 (WTG 05)	17:27	53	09:04 (8)	18:01		19:35		20:07	20:34
11	07:27			07:03		08:12 (8)	06:21		06:29		05:47	05:27
	16:51			17:29	52	09:04 (8)	18:02		19:36		20:08	20:34
12	07:27			07:01		08:12 (8)	06:19		06:28		05:46	05:27
	16:52			17:30	52	09:04 (8)	18:03		19:37		20:09	20:35
13	07:26			07:00		08:13 (8)	06:18		06:26		05:45	05:27
	16:53			17:31	52	09:05 (8)	18:04		19:38		20:10	20:35
14	07:26			06:59		08:12 (8)	06:16		06:24		05:44	05:27
	16:54			17:32	51	09:03 (8)	18:05		19:39		20:11	20:36
15	07:25			06:57		08:13 (8)	06:14		06:23		05:43	05:27
	16:55			17:34	50	09:03 (8)	18:07		19:40		20:12	20:36
16	07:25			06:56		08:14 (8)	06:13		06:21		05:42	05:27
	16:56			17:35	49	09:03 (8)	18:08		19:41		20:13	20:36
17	07:25			06:55		08:13 (8)	06:11		06:20		05:41	05:27
	16:57			17:36	49	09:02 (8)	18:09		19:42		20:14	20:37
18	07:24		08:30 (8)	06:53		08:14 (8)	06:09		06:18		05:40	05:27
	16:59	8	08:38 (8)	17:37	48	09:02 (8)	18:10		19:44		20:15	20:37
19	07:24		08:27 (8)	06:52		08:14 (8)	06:08		06:17		05:39	05:27
	17:00	15	08:42 (8)	17:38	46	09:00 (8)	18:11		19:45		20:16	20:37
20	07:23		08:24 (8)	06:51		08:16 (8)	06:06		06:15		05:38	05:27
	17:01	21	08:45 (8)	17:40	43	08:59 (8)	18:12		19:46		20:17	20:38
21	07:22		08:22 (8)	06:49		08:16 (8)	06:04		06:14		05:37	05:27
	17:02	25	08:47 (8)	17:41	42	08:58 (8)	18:13		19:47		20:18	20:38
22	07:22		08:22 (8)	06:48		08:17 (8)	06:03		06:12		05:37	05:27
	17:03	28	08:50 (8)	17:42	40	08:57 (8)	18:14		19:48		20:19	20:38
23	07:21		08:20 (8)	06:46		08:18 (8)	06:01		06:11		05:36	05:27
	17:05	31	08:51 (8)	17:43	37	08:55 (8)	18:15		19:49		20:20	20:38
24	07:20		08:19 (8)	06:45		08:20 (8)	05:59		06:09		05:35	05:28
	17:06	34	08:53 (8)	17:45	33	08:53 (8)	18:16		19:50		20:21	20:38
25	07:20		08:18 (8)	06:43		08:21 (8)	05:58		06:08		05:34	05:28
	17:07	36	08:54 (8)	17:46	29	08:50 (8)	18:18		19:51		20:22	20:39
26	07:19		08:17 (8)	06:42		08:24 (8)	05:56		06:06		05:34	05:28
	17:08	38	08:55 (8)	17:47	24	08:48 (8)	18:19		19:52		20:23	20:39
27	07:18		08:17 (8)	06:40		08:26 (8)	05:54		06:05		05:33	05:29
	17:10	40	08:57 (8)	17:48	18	08:44 (8)	18:20		19:53		20:23	20:39
28	07:17		08:16 (8)	06:39		08:34 (8)	05:52		06:03		05:32	05:29
	17:11	42	08:58 (8)	17:49	3	08:37 (8)	18:21		19:54		20:24	20:39
29	07:16		08:16 (8)				06:51		06:02		05:32	05:30
	17:12	43	08:59 (8)				19:22		19:55		20:25	20:39
30	07:15		08:15 (8)				06:49		06:01		05:31	05:30
	17:13	45	09:00 (8)				19:23		19:57		20:26	20:39
31	07:15		08:14 (8)				06:47				05:31	
	17:15	47	09:01 (8)				19:24				20:27	
Ore potenziali eliofanìa	296			297		369		399		449		454
Totale, caso peggiore	726			1229								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 77 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (382)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:41 (8) 07:07 08:34 (8) 16:32
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:41 (8) 07:08 08:34 (8) 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:42 (8) 07:09 08:34 (8) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:42 (8) 07:10 08:34 (8) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:42 (8) 07:11 08:33 (8) 16:31
6	05:33 20:38	06:00 20:13	06:31 19:27	07:02 18:36	06:37 16:51	07:43 (8) 07:12 08:34 (8) 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:43 (8) 07:13 08:33 (8) 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:43 (8) 07:14 08:33 (8) 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:45 (8) 07:15 08:33 (8) 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47	07:45 (8) 07:16 08:32 (8) 16:31
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:45 (8) 07:16 08:32 (8) 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45	07:46 (8) 07:17 08:31 (8) 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44	07:47 (8) 07:18 08:31 (8) 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:48 (8) 07:19 08:30 (8) 16:32
15	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	06:48 16:42	07:49 (8) 07:20 08:29 (8) 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:51 (8) 07:20 08:29 (8) 16:32
17	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:52 (8) 07:21 08:28 (8) 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:53 (8) 07:22 08:27 (8) 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:54 (8) 07:22 08:25 (8) 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38	07:57 (8) 07:23 08:25 (8) 16:33
21	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:58 (8) 07:23 08:23 (8) 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37	07:24 08:00 (8) 16:34 08:21 (8) 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 08:03 (8) 16:35 08:19 (8) 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:35	07:25 08:08 (8) 16:35 08:16 (8) 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	07:00 16:35	07:25 16:36 16:36 08:18 (8) 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37 16:37 08:19 (8) 16:37
27	05:50 20:24	06:21 19:44	06:52 18:51	07:25 17:04	07:02 16:34	07:26 16:37 16:37 08:20 (8) 16:38
28	05:51 20:23	06:22 19:42	06:53 18:50	07:26 17:02	07:04 16:33	07:26 16:38 16:38 08:21 (8) 16:39
29	05:52 20:22	06:23 19:40	06:55 18:48	07:28 17:01	07:05 16:33	07:27 16:39 16:39 08:22 (8) 16:40
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 16:39 16:39 08:23 (8) 16:40
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 16:58	07:07 16:33	07:27 16:40 16:40 08:24 (8) 16:41
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore				739	962	1366

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Recettore d'ombra: 78 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (398)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:29	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:28	05:57 19:58	05:29 20:29	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:43 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36	05:39 20:35	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:41	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:19	06:51 16:40	07:21 16:32
18	07:24 16:59	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	06:55 16:38	07:23 16:34
21	07:23 17:02	06:49 17:41	06:05 18:13	06:14 19:47	05:37 20:18	05:27 20:38	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:24 16:34
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 19:49	05:36 20:20	05:28 20:39	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	07:25 16:35
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:49	06:50 18:57	07:22 18:08	06:59 16:36	07:25 16:36
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	07:00 16:35	07:26 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:26	06:20 19:45	06:52 18:53	07:25 17:05	07:02 16:34	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:25	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:34	07:26 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	05:32 20:25	05:29 20:39	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:03	07:04 16:34	07:27 16:38
29	07:17 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	07:27 16:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 16:40
31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 79 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (399)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:29	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:28	05:57 19:58	05:29 20:29	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
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11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
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13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
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15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
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28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	05:32 20:25	05:29 20:39	05:51 20:24	06:22 19:42	06:54 18:50	07:26 17:03	07:04 16:34	07:27 16:38
29	07:17 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	07:05 16:33	07:27 16:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:40
31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Recettore d'ombra: 80 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (384)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:29	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:28	05:57 19:58	05:29 20:29	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
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11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:08 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36	05:39 20:35	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
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16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:19	06:51 16:40	07:21 16:32
18	07:24 16:59	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
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22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
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24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:49	06:50 18:57	07:22 18:08	06:59 16:36	07:25 16:36
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	07:00 16:35	07:26 16:36
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29	07:17 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	06:28 16:33	07:27 16:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	06:29 16:33	07:27 16:40
31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 81 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (400)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28	08:32 (WTG 01)	07:14	06:37	06:00	05:30	05:31	05:55	06:26	06:57	06:32	07:07
	16:41	09:32 (WTG 01)	17:16	17:51	19:25	19:58	20:28	20:39	19:36	18:45	16:57	16:32
2	07:28	08:32 (WTG 01)	07:13	06:36	06:44	05:58	05:30	05:31	05:56	06:27	06:58	06:33
	16:42	09:32 (WTG 01)	17:17	17:52	19:26	19:59	20:29	20:39	20:18	19:34	18:43	16:56
3	07:28	08:33 (WTG 01)	07:12	06:34	06:43	05:57	05:29	05:32	05:57	06:28	06:59	06:34
	16:43	09:33 (WTG 01)	17:19	17:53	19:28	20:00	20:29	20:39	20:17	19:32	18:41	16:55
4	07:28	08:34 (WTG 01)	07:11	06:33	06:41	05:56	05:29	05:32	05:58	06:29	07:00	06:35
	16:44	09:33 (WTG 01)	17:20	17:54	19:29	20:01	20:30	20:38	20:16	19:31	18:40	16:54
5	07:28	08:34 (WTG 01)	07:10	06:31	06:39	05:54	05:29	05:33	05:59	06:30	07:01	06:36
	16:45	09:33 (WTG 01)	17:21	17:55	19:30	20:02	20:31	20:38	20:15	19:29	18:38	16:52
6	07:28	08:35 (WTG 01)	07:09	06:29	06:38	05:53	05:28	05:33	06:00	06:31	07:02	06:38
	16:46	09:33 (WTG 01)	17:22	17:56	19:31	20:03	20:31	20:38	20:14	19:27	18:36	16:51
7	07:28	08:36 (WTG 01)	07:07	06:28	06:36	05:52	05:28	05:34	06:01	06:32	07:03	06:39
	16:47	09:34 (WTG 01)	17:24	17:58	19:32	20:04	20:32	20:38	20:12	19:26	18:35	16:50
8	07:28	08:37 (WTG 01)	07:06	06:26	06:34	05:51	05:28	05:35	06:02	06:33	07:04	06:40
	16:48	09:34 (WTG 01)	17:25	17:59	19:33	20:05	20:33	20:37	20:11	19:24	18:33	16:49
9	07:27	08:37 (WTG 01)	07:05	06:25	06:33	05:50	05:27	05:35	06:03	06:34	07:05	06:41
	16:49	09:33 (WTG 01)	17:26	18:00	19:34	20:06	20:33	20:37	20:10	19:22	18:31	16:48
10	07:27	08:38 (WTG 01)	07:04	06:23	06:31	05:48	05:27	05:36	06:04	06:35	07:06	06:43
	16:50	09:33 (WTG 01)	17:27	18:01	19:35	20:07	20:34	20:36	20:09	19:21	18:30	16:47
11	07:27	08:39 (WTG 01)	07:03	06:21	06:29	05:47	05:27	05:37	06:05	06:36	07:08	06:44
	16:51	09:34 (WTG 01)	17:29	18:02	19:36	20:08	20:34	20:36	20:07	19:19	18:28	16:46
12	07:27	08:39 (WTG 01)	07:01	06:20	06:28	05:46	05:27	05:37	06:06	06:37	07:09	06:45
	16:52	09:33 (WTG 01)	17:30	18:03	19:37	20:09	20:35	20:36	20:06	19:17	18:26	16:45
13	07:26	08:41 (WTG 01)	07:00	06:18	06:26	05:45	05:27	05:38	06:07	06:38	07:10	06:46
	16:53	09:33 (WTG 01)	17:31	18:04	19:38	20:10	20:35	20:35	20:05	19:16	18:25	16:44
14	07:26	08:42 (WTG 01)	06:59	06:16	06:25	05:44	05:27	05:39	06:08	06:39	07:11	06:47
	16:54	09:33 (WTG 01)	17:32	18:06	19:39	20:11	20:36	20:35	20:03	19:14	18:23	16:43
15	07:26	08:42 (WTG 01)	06:58	06:15	06:23	05:43	05:27	05:40	06:09	06:40	07:12	06:49
	16:55	09:33 (WTG 01)	17:34	18:07	19:41	20:12	20:36	20:34	20:02	19:12	18:22	16:42
16	07:25	08:44 (WTG 01)	06:56	06:13	06:21	05:42	05:27	05:40	06:10	06:41	07:13	06:50
	16:56	09:33 (WTG 01)	17:35	18:08	19:42	20:13	20:37	20:33	20:00	19:10	18:20	16:41
17	07:25	08:44 (WTG 01)	06:55	06:11	06:20	05:41	05:27	05:41	06:11	06:42	07:14	06:51
	16:58	09:32 (WTG 01)	17:36	18:09	19:43	20:14	20:37	20:33	19:59	19:09	18:19	16:40
18	07:24	08:46 (WTG 01)	06:54	06:10	06:18	05:40	05:27	05:42	06:12	06:43	07:15	06:52
	16:59	09:32 (WTG 01)	17:37	18:10	19:44	20:15	20:37	20:32	19:58	19:07	18:17	16:40
19	07:24	08:47 (WTG 01)	06:52	06:08	06:17	05:39	05:27	05:43	06:13	06:44	07:16	06:53
	17:00	09:31 (WTG 01)	17:39	18:11	19:45	20:16	20:38	20:31	19:56	19:05	18:15	16:39
20	07:23	08:48 (WTG 01)	06:51	06:06	06:15	05:38	05:27	05:44	06:14	06:45	07:18	06:55
	17:01	09:29 (WTG 01)	17:40	18:12	19:46	20:17	20:38	20:31	19:55	19:03	18:14	16:38
21	07:23	08:50 (WTG 01)	06:49	06:05	06:14	05:37	05:28	05:45	06:15	06:46	07:19	06:56
	17:02	09:29 (WTG 01)	17:41	18:13	19:47	20:18	20:38	20:30	19:53	19:02	18:12	16:37
22	07:22	08:51 (WTG 01)	06:48	06:03	06:12	05:37	05:27	05:45	06:16	06:47	07:20	06:57
	17:04	09:28 (WTG 01)	17:42	18:14	19:48	20:19	20:38	20:29	19:52	19:00	18:11	16:37
23	07:21	08:53 (WTG 01)	06:46	06:01	06:11	05:36	05:28	05:46	06:17	06:48	07:21	06:58
	17:05	09:26 (WTG 01)	17:43	18:16	19:49	20:20	20:39	20:28	19:50	18:58	18:10	16:36
24	07:21	08:55 (WTG 01)	06:45	06:00	06:09	05:35	05:28	05:47	06:18	06:50	07:22	06:59
	17:06	09:24 (WTG 01)	17:45	18:17	19:50	20:21	20:39	20:27	19:49	18:57	18:08	16:36
25	07:20	08:58 (WTG 01)	06:43	06:08	06:18	05:34	05:28	05:48	06:19	06:51	06:23	07:00
	17:07	09:23 (WTG 01)	17:46	18:18	19:51	20:22	20:39	20:26	19:47	18:55	17:07	16:35
26	07:19	09:01 (WTG 01)	06:42	06:06	06:16	05:34	05:28	05:49	06:20	06:52	06:25	07:02
	17:08	09:20 (WTG 01)	17:47	18:19	19:52	20:23	20:39	20:26	19:45	18:53	17:05	16:35
27	07:18	09:05 (WTG 01)	06:40	06:05	06:15	05:33	05:29	05:50	06:21	06:53	06:26	07:03
	17:10	09:16 (WTG 01)	17:48	18:20	19:53	20:24	20:39	20:25	19:44	18:51	17:04	16:34
28	07:17		06:39	06:04	06:14	05:32	05:29	05:51	06:22	06:54	06:27	07:04
	17:11		17:49	18:21	19:55	20:25	20:39	20:24	19:42	18:50	17:03	16:34
29	07:17			06:51	06:02	06:12	06:00	06:23	06:55	06:28	07:05	06:33
	17:12			19:22	19:56	20:25	20:39	20:23	19:41	18:48	17:01	16:33
30	07:16			06:49	06:01	06:11	06:00	06:24	06:56	06:29	07:06	06:34
	17:13			19:23	19:57	20:26	20:39	20:22	19:39	18:46	17:00	16:33
31	07:15			06:48		06:11		06:25		06:30		06:30
	17:15			19:24		20:27		20:21		19:37		16:59
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore	1266										629	1868

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm)Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 82 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (383)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	05:59 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:29	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 19:59	05:29 20:29	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35	06:39 16:50	07:13 16:31
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:33	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
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31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 83 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (401)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	05:59 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
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18	07:24 16:59	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
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25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	07:00 16:35	07:25 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:26	06:20 19:45	06:52 18:53	07:24 17:05	07:01 16:34	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:25	06:21 19:44	06:53 18:51	07:25 17:04	07:02 16:34	07:26 16:37
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30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:40
31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 84 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (385)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:28 16:41	07:14 17:16	06:37 17:51	06:46 19:25	05:59 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
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3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 19:59	05:29 20:29	05:32 20:39	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
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10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:17 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:49 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	05:42 20:13	05:27 20:37	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:54 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:38	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	06:55 16:38	07:23 16:34
21	07:23 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:37 20:18	05:27 20:38	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:24 16:34
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 19:49	05:36 20:20	05:28 20:39	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	06:58 16:36	07:25 16:35
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:49	06:49 18:57	07:22 18:08	06:59 16:36	07:25 16:35
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07	07:00 16:35	07:25 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:26	06:20 19:45	06:52 18:53	07:24 17:05	07:01 16:34	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:25	06:21 19:44	06:53 18:51	07:25 17:04	07:02 16:34	07:26 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	05:32 20:25	05:29 20:39	05:51 20:24	06:22 19:42	06:54 18:50	07:26 17:03	07:04 16:34	07:27 16:38
29	07:17 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	07:05 16:33	07:27 16:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:40
31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:21	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore												

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 85 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (386)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:28 16:41	07:14 17:16	07:37 (WTG 02) 17:51	06:37 17:51	06:46 19:25	06:00 19:58	
2	07:28 16:42	07:13 17:17	07:37 (WTG 02) 17:52	06:36 17:52	06:44 19:26	05:58 19:59	54
3	07:28 16:43	07:12 17:19	07:36 (WTG 02) 17:53	06:34 17:53	06:43 19:28	05:57 20:00	54
4	07:28 16:44	07:11 17:20	07:36 (WTG 02) 17:54	06:33 17:54	06:41 19:29	05:56 20:01	53
5	07:28 16:45	07:10 17:21	07:35 (WTG 02) 17:55	06:31 17:55	06:39 19:30	05:54 20:02	53
6	07:28 16:46	07:09 17:22	07:35 (WTG 02) 17:56	06:29 17:56	06:38 19:31	05:53 20:03	53
7	07:28 16:47	07:07 17:24	07:34 (WTG 02) 17:58	06:28 17:58	06:36 19:32	05:52 20:04	54
8	07:28 16:48	07:06 17:25	07:35 (WTG 02) 17:59	06:26 17:59	06:34 19:33	05:51 20:05	53
9	07:27 16:49	07:05 17:26	07:35 (WTG 02) 18:00	06:25 18:00	06:33 19:34	05:50 20:06	53
10	07:27 16:50	07:04 17:27	07:35 (WTG 02) 18:01	06:23 18:01	06:31 19:35	05:48 20:07	53
11	07:27 16:51	07:03 17:29	07:35 (WTG 02) 18:02	06:21 18:02	06:29 19:36	05:47 20:08	53
12	07:27 16:52	07:01 17:30	07:36 (WTG 02) 18:03	06:20 18:03	06:28 19:37	05:46 20:09	53
13	07:26 16:53	07:00 17:31	07:37 (WTG 02) 18:04	06:18 18:04	06:26 19:38	05:45 20:10	52
14	07:26 16:54	06:59 17:32	07:37 (WTG 02) 18:06	06:16 18:06	06:25 19:39	05:44 20:11	52
15	07:26 16:55	06:58 17:34	07:39 (WTG 02) 18:07	06:15 18:07	06:23 19:41	05:43 20:12	53
16	07:25 16:56	06:56 17:35	07:41 (WTG 02) 18:08	06:13 18:08	06:21 19:42	05:42 20:13	53
17	07:25 16:58	06:55 17:36	07:43 (WTG 02) 18:09	06:11 18:09	06:20 19:43	05:41 20:14	53
18	07:24 16:59	06:54 17:37	07:51 (WTG 02) 18:10	06:10 18:10	06:18 19:44	05:40 20:15	52
19	07:24 17:00	06:52 17:39	07:52 (WTG 02) 18:11	06:08 18:11	06:17 19:45	05:39 20:16	52
20	07:23 17:01	06:51 17:40	07:53 (WTG 02) 18:12	06:06 18:12	06:15 19:46	05:38 20:17	52
21	07:23 17:02	06:49 17:41	07:54 (WTG 02) 18:13	06:05 18:13	06:14 19:47	05:38 20:18	52
22	07:22 17:04	06:48 17:42	07:55 (WTG 02) 18:14	06:03 18:14	06:12 19:48	05:37 20:19	52
23	07:21 17:05	06:46 17:43	07:56 (WTG 02) 18:16	06:01 18:16	06:11 19:49	05:36 20:20	52
24	07:21 17:06	06:45 17:45	07:57 (WTG 02) 18:17	05:59 18:17	06:09 19:50	05:35 20:21	52
25	07:20 17:07	06:43 17:46	07:58 (WTG 02) 18:18	05:58 18:18	06:08 19:51	05:34 20:22	52
26	07:19 17:08	06:42 17:47	07:59 (WTG 02) 18:19	05:56 18:19	06:06 19:52	05:34 20:23	53
27	07:18 17:10	06:40 17:48	08:00 (WTG 02) 18:20	05:54 18:20	06:05 19:53	05:33 20:24	53
28	07:17 17:11	06:39 17:49	08:01 (WTG 02) 18:21	05:53 18:21	06:04 19:55	05:32 20:25	53
29	07:17 17:12	07:42 (WTG 02) 07:50 (WTG 02)	08:02 (WTG 02) 18:22	05:52 18:22	06:02 19:56	05:32 20:25	53
30	07:16 17:13	07:40 (WTG 02) 07:53 (WTG 02)	08:03 (WTG 02) 18:23	05:51 18:23	06:01 19:57	05:31 20:26	54
31	07:15 17:15	07:38 (WTG 02) 07:55 (WTG 02)	08:04 (WTG 02) 18:24	05:50 18:24	06:00 19:58	05:31 20:27	53
Ore potenziali eliofanìa	296	297	369	399	449	454	1583
Totale, caso peggiore	38	367			1209		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 85 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (386)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre		
1	05:31	06:26 (WTG 01)	05:55	06:36 (WTG 01)	06:26	06:57		06:32	07:04 (WTG 02)	07:07		
	20:39	53	07:19 (WTG 01)	20:19	41	07:17 (WTG 01)	19:36	18:45	16:57	26	07:30 (WTG 02)	16:32
2	05:31	06:27 (WTG 01)	05:56	06:37 (WTG 01)	06:27	06:58		06:33	07:05 (WTG 02)	07:08		
	20:39	53	07:20 (WTG 01)	20:18	39	07:16 (WTG 01)	19:34	18:43	16:56	25	07:30 (WTG 02)	16:32
3	05:32	06:26 (WTG 01)	05:57	06:39 (WTG 01)	06:28	06:59		06:34	07:04 (WTG 02)	07:09		
	20:39	53	07:19 (WTG 01)	20:17	35	07:14 (WTG 01)	19:32	18:41	16:55	26	07:30 (WTG 02)	16:32
4	05:32	06:27 (WTG 01)	05:58	06:40 (WTG 01)	06:29	07:00		06:35	07:04 (WTG 02)	07:10		
	20:38	53	07:20 (WTG 01)	20:16	33	07:13 (WTG 01)	19:31	18:40	16:54	26	07:30 (WTG 02)	16:32
5	05:33	06:28 (WTG 01)	05:59	06:41 (WTG 01)	06:30	07:01		06:36	07:05 (WTG 02)	07:11		
	20:38	53	07:21 (WTG 01)	20:15	30	07:11 (WTG 01)	19:29	18:38	16:52	25	07:30 (WTG 02)	16:32
6	05:33	06:27 (WTG 01)	06:00	06:43 (WTG 01)	06:31	07:02		06:38	07:05 (WTG 02)	07:12		
	20:38	54	07:21 (WTG 01)	20:14	27	07:10 (WTG 01)	19:27	18:36	16:51	25	07:30 (WTG 02)	16:31
7	05:34	06:28 (WTG 01)	06:01	06:46 (WTG 01)	06:32	07:03		06:39	07:05 (WTG 02)	07:13		
	20:38	53	07:21 (WTG 01)	20:12	21	07:07 (WTG 01)	19:26	18:35	16:50	24	07:29 (WTG 02)	16:31
8	05:35	06:27 (WTG 01)	06:02	06:49 (WTG 01)	06:33	07:04		06:40	07:06 (WTG 02)	07:14		
	20:37	54	07:21 (WTG 01)	20:11	15	07:04 (WTG 01)	19:24	18:33	16:49	22	07:28 (WTG 02)	16:31
9	05:35	06:28 (WTG 01)	06:03	06:51 (WTG 01)	06:34	07:05		06:41	07:08 (WTG 02)	07:15		
	20:37	53	07:21 (WTG 01)	20:10		19:22	18:31	16:48	07:08 (WTG 02)	07:15		
10	05:36	06:28 (WTG 01)	06:04	06:53 (WTG 01)	06:35	07:06		06:43	07:09 (WTG 02)	07:16		
	20:36	54	07:22 (WTG 01)	20:09		19:21	18:30	16:47	07:10 (WTG 02)	07:16		
11	05:37	06:28 (WTG 01)	06:05	06:55 (WTG 01)	06:36	07:08		06:44	07:11 (WTG 02)	07:17		
	20:36	53	07:21 (WTG 01)	20:07		19:19	18:28	16:46	07:12 (WTG 02)	07:17		
12	05:37	06:28 (WTG 01)	06:06	06:57 (WTG 01)	06:37	07:09		06:45	07:13 (WTG 02)	07:17		
	20:36	54	07:22 (WTG 01)	20:06		19:17	18:26	16:45	07:14 (WTG 02)	07:18		
13	05:38	06:29 (WTG 01)	06:07	06:59 (WTG 01)	06:38	07:10		06:46	07:15 (WTG 02)	07:18		
	20:35	53	07:22 (WTG 01)	20:05		19:16	18:25	16:44	07:16 (WTG 02)	07:19		
14	05:39	06:29 (WTG 01)	06:08	07:01 (WTG 01)	06:39	07:11		06:47	07:17 (WTG 02)	07:20		
	20:34	53	07:22 (WTG 01)	20:03		19:14	18:23	16:43	07:18 (WTG 02)	07:21		
15	05:40	06:29 (WTG 01)	06:09	07:03 (WTG 01)	06:40	07:12		06:49	07:19 (WTG 02)	07:22		
	20:34	53	07:22 (WTG 01)	20:02		19:12	18:22	16:42	07:20 (WTG 02)	07:23		
16	05:40	06:29 (WTG 01)	06:10	07:05 (WTG 01)	06:41	07:13		06:50	07:21 (WTG 02)	07:24		
	20:33	53	07:22 (WTG 01)	20:00		19:10	18:20	16:41	07:22 (WTG 02)	07:25		
17	05:41	06:29 (WTG 01)	06:11	07:07 (WTG 01)	06:42	07:14		06:51	07:23 (WTG 02)	07:26		
	20:33	53	07:22 (WTG 01)	19:59		19:09	18:19	16:40	07:24 (WTG 02)	07:27		
18	05:42	06:30 (WTG 01)	06:12	07:09 (WTG 01)	06:43	07:15		06:52	07:25 (WTG 02)	07:28		
	20:32	53	07:23 (WTG 01)	19:58		19:07	18:17	16:40	07:26 (WTG 02)	07:29		
19	05:43	06:30 (WTG 01)	06:13	07:11 (WTG 01)	06:44	07:16		06:53	07:27 (WTG 02)	07:30		
	20:31	53	07:23 (WTG 01)	19:56		19:05	18:15	16:39	07:28 (WTG 02)	07:31		
20	05:44	06:30 (WTG 01)	06:14	07:13 (WTG 01)	06:45	07:18		06:55	07:29 (WTG 02)	07:32		
	20:31	52	07:22 (WTG 01)	19:55		19:04	18:14	16:38	07:30 (WTG 02)	07:33		
21	05:45	06:30 (WTG 01)	06:15	07:15 (WTG 01)	06:46	07:19		06:56	07:31 (WTG 02)	07:34		
	20:30	52	07:22 (WTG 01)	19:53		19:02	18:12	16:37	07:32 (WTG 02)	07:35		
22	05:45	06:31 (WTG 01)	06:16	07:17 (WTG 01)	06:47	07:20		06:57	07:33 (WTG 02)	07:36		
	20:29	51	07:22 (WTG 01)	19:52		19:00	18:11	16:37	07:34 (WTG 02)	07:37		
23	05:46	06:31 (WTG 01)	06:17	07:19 (WTG 01)	06:48	07:21		06:58	07:35 (WTG 02)	07:38		
	20:28	51	07:22 (WTG 01)	19:50		18:58	18:10	16:36	07:36 (WTG 02)	07:39		
24	05:47	06:32 (WTG 01)	06:18	07:21 (WTG 01)	06:50	07:22		06:59	07:37 (WTG 02)	07:40		
	20:27	50	07:22 (WTG 01)	19:49		18:57	18:08	16:36	07:38 (WTG 02)	07:41		
25	05:48	06:32 (WTG 01)	06:19	07:23 (WTG 01)	06:51	07:23		07:00	07:39 (WTG 02)	07:42		
	20:26	49	07:21 (WTG 01)	19:47		18:55	17:07	10	07:23 (WTG 02)	16:35		
26	05:49	06:33 (WTG 01)	06:20	07:25 (WTG 01)	06:52	07:25		07:02	07:40 (WTG 02)	07:43		
	20:26	48	07:21 (WTG 01)	19:45		18:53	17:05	15	07:25 (WTG 02)	16:35		
27	05:50	06:32 (WTG 01)	06:21	07:27 (WTG 01)	06:53	07:26		07:03	07:41 (WTG 02)	07:44		
	20:25	48	07:20 (WTG 01)	19:44		18:51	17:04	18	07:26 (WTG 02)	16:34		
28	05:51	06:33 (WTG 01)	06:22	07:29 (WTG 01)	06:54	07:27		07:04	07:42 (WTG 02)	07:45		
	20:24	46	07:19 (WTG 01)	19:42		18:50	17:03	20	07:27 (WTG 02)	16:34		
29	05:52	06:34 (WTG 01)	06:23	07:31 (WTG 01)	06:55	07:28		07:05	07:43 (WTG 02)	07:46		
	20:23	45	07:19 (WTG 01)	19:41		18:48	17:01	23	07:29 (WTG 02)	16:33		
30	05:53	06:35 (WTG 01)	06:24	07:33 (WTG 01)	06:56	07:29		07:06	07:44 (WTG 02)	07:47		
	20:22	43	07:18 (WTG 01)	19:39		18:46	17:00	24	07:29 (WTG 02)	16:33		
31	05:54	06:35 (WTG 01)	06:25	07:35 (WTG 01)	06:57	07:30		07:07	07:45 (WTG 02)	07:48		
	20:21	42	07:17 (WTG 01)	19:37		18:45	16:59	24	07:29 (WTG 02)	16:40		
Ore potenziali eliofanía	460		429		375	345		297		286		
Totale, caso peggiore	1588		241		134		275					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 86 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (387)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:28 16:41	07:14 17:16	07:38 (WTG 02) 17:51	06:37 17:51	06:46 19:25	06:00 19:58	
2	07:28 16:42	07:13 17:17	07:37 (WTG 02) 17:52	06:36 17:52	06:44 19:26	05:58 19:59	53
3	07:28 16:43	07:12 17:19	07:36 (WTG 02) 17:53	06:34 17:53	06:43 19:28	05:57 20:00	53
4	07:28 16:44	07:11 17:20	07:35 (WTG 02) 17:54	06:33 17:54	06:41 19:29	05:56 20:01	53
5	07:28 16:45	07:10 17:21	07:35 (WTG 02) 17:55	06:31 17:55	06:39 19:30	05:54 20:02	7
6	07:28 16:46	07:09 17:22	07:35 (WTG 02) 17:56	06:29 17:56	06:38 19:31	05:53 20:03	17
7	07:28 16:47	07:07 17:24	07:34 (WTG 02) 17:58	06:28 17:58	06:36 19:32	05:52 20:04	23
8	07:28 16:48	07:06 17:25	07:34 (WTG 02) 17:59	06:26 17:59	06:34 19:33	05:51 20:05	27
9	07:27 16:49	07:05 17:26	07:34 (WTG 02) 18:00	06:25 18:00	06:33 19:34	05:50 20:06	31
10	07:27 16:50	07:04 17:27	07:35 (WTG 02) 18:01	06:23 18:01	06:31 19:35	05:48 20:07	34
11	07:27 16:51	07:03 17:29	07:34 (WTG 02) 18:02	06:21 18:02	06:29 19:36	05:47 20:08	36
12	07:27 16:52	07:01 17:30	07:35 (WTG 02) 18:03	06:20 18:03	06:28 19:37	05:46 20:09	38
13	07:26 16:53	07:00 17:31	07:36 (WTG 02) 18:04	06:18 18:04	06:26 19:38	05:45 20:10	40
14	07:26 16:54	06:59 17:32	07:36 (WTG 02) 18:06	06:16 18:06	06:25 19:39	05:44 20:11	42
15	07:26 16:55	06:58 17:34	07:37 (WTG 02) 18:07	06:15 18:07	06:23 19:41	05:43 20:12	44
16	07:25 16:56	06:56 17:35	07:39 (WTG 02) 18:08	06:13 18:08	06:21 19:42	05:42 20:13	45
17	07:25 16:58	06:55 17:36	07:41 (WTG 02) 18:09	06:11 18:09	06:20 19:43	05:41 20:14	47
18	07:24 16:59	06:54 17:37	07:46 (WTG 02) 18:10	06:10 18:10	06:18 19:44	05:40 20:15	47
19	07:24 17:00	06:52 17:39	07:48 (WTG 02) 18:11	06:08 18:11	06:17 19:45	05:39 20:16	48
20	07:23 17:01	06:51 17:40	06:08 18:12	06:15 18:12	06:15 19:46	05:38 20:17	49
21	07:23 17:02	06:49 17:41	06:05 18:13	06:14 18:13	06:14 19:47	05:38 20:18	50
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 18:14	06:12 19:48	05:37 20:19	51
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 18:16	06:11 19:49	05:36 20:20	51
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 18:17	06:09 19:50	05:35 20:21	52
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 18:18	06:08 19:51	05:34 20:22	52
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 18:19	06:06 19:52	05:34 20:23	52
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 18:20	06:05 19:53	05:33 20:24	52
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 18:21	06:04 19:55	05:32 20:25	52
29	07:17 17:12		05:51 19:22	06:02 19:22	06:02 19:56	05:32 20:25	53
30	07:16 17:13	07:41 (WTG 02) 07:50 (WTG 02)	06:49 19:23	06:01 19:23	06:01 19:57	05:31 20:26	53
31	07:15 17:15	07:39 (WTG 02) 07:53 (WTG 02)	06:48 19:24	06:00 19:24	06:00 20:27	05:31 20:27	53
Ore potenziali eliofanìa	296	297	369	399	449	454	1581
Totale, caso peggiore	23	374			1146		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 86 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (387)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	06:25 (WTG 01)	05:55	06:37 (WTG 01)	06:26	06:57	06:32	07:03 (WTG 02)	07:07			
	20:39	53 07:18 (WTG 01)	20:19	37 07:14 (WTG 01)	19:36	18:45	16:57	26 07:29 (WTG 02)	16:32			
2	05:31	06:26 (WTG 01)	05:56	06:38 (WTG 01)	06:27	06:58	06:33	07:04 (WTG 02)	07:08			
	20:39	53 07:19 (WTG 01)	20:18	35 07:13 (WTG 01)	19:34	18:43	16:56	26 07:30 (WTG 02)	16:32			
3	05:32	06:26 (WTG 01)	05:57	06:39 (WTG 01)	06:28	06:59	06:34	07:04 (WTG 02)	07:09			
	20:39	53 07:19 (WTG 01)	20:17	33 07:12 (WTG 01)	19:32	18:41	16:55	25 07:29 (WTG 02)	16:32			
4	05:32	06:26 (WTG 01)	05:58	06:41 (WTG 01)	06:29	07:00	06:35	07:04 (WTG 02)	07:10			
	20:38	53 07:19 (WTG 01)	20:16	29 07:10 (WTG 01)	19:31	18:40	16:54	25 07:29 (WTG 02)	16:32			
5	05:33	06:27 (WTG 01)	05:59	06:42 (WTG 01)	06:30	07:01	06:36	07:05 (WTG 02)	07:11			
	20:38	53 07:20 (WTG 01)	20:15	26 07:08 (WTG 01)	19:29	18:38	16:52	24 07:29 (WTG 02)	16:32			
6	05:33	06:26 (WTG 01)	06:00	06:45 (WTG 01)	06:31	07:02	06:38	07:05 (WTG 02)	07:12			
	20:38	54 07:20 (WTG 01)	20:14	21 07:06 (WTG 01)	19:27	18:36	16:51	24 07:29 (WTG 02)	16:31			
7	05:34	06:27 (WTG 01)	06:01	06:48 (WTG 01)	06:32	07:03	06:39	07:05 (WTG 02)	07:13			
	20:38	53 07:20 (WTG 01)	20:12	15 07:03 (WTG 01)	19:26	18:35	16:50	23 07:28 (WTG 02)	16:31			
8	05:35	06:26 (WTG 01)	06:02		06:33	07:04	06:40	07:06 (WTG 02)	07:14			
	20:37	54 07:20 (WTG 01)	20:11		19:24	18:33	16:49	21 07:27 (WTG 02)	16:31			
9	05:35	06:27 (WTG 01)	06:03		06:34	07:05	06:41	07:08 (WTG 02)	07:15			
	20:37	53 07:20 (WTG 01)	20:10		19:22	18:31	16:48	19 07:27 (WTG 02)	16:31			
10	05:36	06:27 (WTG 01)	06:04		06:35	07:06	06:43	07:09 (WTG 02)	07:16			
	20:36	54 07:21 (WTG 01)	20:09		19:21	18:30	16:47	16 07:25 (WTG 02)	16:31			
11	05:37	06:27 (WTG 01)	06:05		06:36	07:08	06:44	07:10 (WTG 02)	07:17			
	20:36	53 07:20 (WTG 01)	20:07		19:19	18:28	16:46	14 07:24 (WTG 02)	16:31			
12	05:37	06:27 (WTG 01)	06:06		06:37	07:09	06:45	07:13 (WTG 02)	07:17			
	20:36	54 07:21 (WTG 01)	20:06		19:17	18:26	16:45	9 07:22 (WTG 02)	16:31			
13	05:38	06:28 (WTG 01)	06:07		06:38	07:10	06:46		07:18			
	20:35	53 07:21 (WTG 01)	20:05		19:16	18:25	16:44		16:32			
14	05:39	06:28 (WTG 01)	06:08		06:39	07:11	06:47		07:19			
	20:34	53 07:21 (WTG 01)	20:03		19:14	18:23	16:43		16:32			
15	05:40	06:28 (WTG 01)	06:09		06:40	07:12	06:49		07:20			
	20:34	53 07:21 (WTG 01)	20:02		19:12	18:22	16:42		16:32			
16	05:40	06:28 (WTG 01)	06:10		06:41	07:13	06:50		07:20			
	20:33	53 07:21 (WTG 01)	20:00		19:10	18:20	16:41		16:32			
17	05:41	06:29 (WTG 01)	06:11		06:42	07:14	06:51		07:21			
	20:33	52 07:21 (WTG 01)	19:59		19:09	18:19	16:40		16:32			
18	05:42	06:29 (WTG 01)	06:12		06:43	07:15	06:52		07:22			
	20:32	52 07:21 (WTG 01)	19:58		19:07	18:17	16:40		16:33			
19	05:43	06:30 (WTG 01)	06:13		06:44	07:16	06:53		07:22			
	20:31	51 07:21 (WTG 01)	19:56		19:05	18:15	16:39		16:33			
20	05:44	06:29 (WTG 01)	06:14		06:45	07:18	06:55		07:23			
	20:31	51 07:20 (WTG 01)	19:55		19:04	18:14	16:38		16:34			
21	05:45	06:30 (WTG 01)	06:15		06:46	07:19	06:56		07:24			
	20:30	50 07:20 (WTG 01)	19:53		19:02	18:12	16:37		16:34			
22	05:45	06:30 (WTG 01)	06:16		06:47	07:20	06:57		07:24			
	20:29	50 07:20 (WTG 01)	19:52		19:00	18:11	16:37		16:34			
23	05:46	06:31 (WTG 01)	06:17		06:48	07:21	06:58		07:25			
	20:28	49 07:20 (WTG 01)	19:50		18:58	18:10	16:36		16:35			
24	05:47	06:31 (WTG 01)	06:18		06:50	07:22	06:59		07:25			
	20:27	49 07:20 (WTG 01)	19:49		18:57	18:08	7 08:20 (WTG 02)	16:36	16:36			
25	05:48	06:32 (WTG 01)	06:19		06:51	06:23	07:11 (WTG 02)	07:00	07:26			
	20:26	48 07:20 (WTG 01)	19:47		18:55	17:07	13 07:24 (WTG 02)	16:35	16:36			
26	05:49	06:33 (WTG 01)	06:20		06:52	06:25	07:08 (WTG 02)	07:02	07:26			
	20:26	46 07:19 (WTG 01)	19:45		18:53	17:05	17 07:25 (WTG 02)	16:35	16:37			
27	05:50	06:32 (WTG 01)	06:21		06:53	06:26	07:07 (WTG 02)	07:03	07:26			
	20:25	46 07:18 (WTG 01)	19:44		18:51	17:04	20 07:27 (WTG 02)	16:34	16:37			
28	05:51	06:33 (WTG 01)	06:22		06:54	06:27	07:05 (WTG 02)	07:04	07:27			
	20:24	44 07:17 (WTG 01)	19:42		18:50	17:03	22 07:27 (WTG 02)	16:34	16:38			
29	05:52	06:34 (WTG 01)	06:23		06:55	06:28	07:05 (WTG 02)	07:05	07:27			
	20:23	43 07:17 (WTG 01)	19:41		18:48	17:01	24 07:29 (WTG 02)	16:33	16:39			
30	05:53	06:35 (WTG 01)	06:24		06:56	06:29	07:04 (WTG 02)	07:06	07:27			
	20:22	41 07:16 (WTG 01)	19:39		18:46	17:00	25 07:29 (WTG 02)	16:33	16:40			
31	05:54	06:36 (WTG 01)	06:25			06:30	07:04 (WTG 02)		07:27			
	20:21	39 07:15 (WTG 01)	19:37			16:59	25 07:29 (WTG 02)		16:40			
Ore potenziali eliofanía	460		429		375	345	297		286			
Totale, caso peggiore	1563		196		153		252					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 87 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (402)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:28	07:14		06:37	06:46	06:00		05:30
	16:41	17:16		17:51	19:25	19:58		20:28
2	07:28	07:13		06:36	06:44	05:58	47	07:00 (WTG 01)
	16:42	17:17		17:52	19:26	19:59		05:30
3	07:28	07:12		06:34	06:43	05:57	48	07:00 (WTG 01)
	16:43	17:19		17:53	19:28	20:00		20:29
4	07:28	07:11	07:36 (WTG 02)	06:33	06:41	05:56	47	07:00 (WTG 01)
	16:44	17:20		17:54	19:29	20:01		05:29
5	07:28	07:10	11 07:47 (WTG 02)	07:34 (WTG 02)	06:31	06:39	48	07:01 (WTG 01)
	16:45	17:21	15 07:49 (WTG 02)	17:55	19:30	20:02		05:29
6	07:28	07:09	18 07:33 (WTG 02)	06:29	06:38	05:53	49	07:01 (WTG 01)
	16:46	17:22		17:56	19:31	20:03		20:31
7	07:28	07:07	21 07:31 (WTG 02)	06:28	06:36	05:52	49	07:01 (WTG 01)
	16:47	17:24		17:58	19:32	20:04		05:28
8	07:28	07:06	22 07:31 (WTG 02)	06:26	06:34	05:51	49	07:02 (WTG 01)
	16:48	17:25		17:59	19:33	20:05		05:28
9	07:27	07:05	24 07:30 (WTG 02)	06:25	06:33	05:50	49	07:02 (WTG 01)
	16:49	17:26		18:00	19:34	20:06		20:33
10	07:27	07:04	25 07:30 (WTG 02)	06:23	06:31	05:48	50	07:02 (WTG 01)
	16:50	17:27		18:01	19:35	20:07		05:27
11	07:27	07:03	26 07:29 (WTG 02)	06:21	06:29	05:47	50	07:02 (WTG 01)
	16:51	17:29		18:02	19:36	20:08		05:27
12	07:27	07:01	26 07:29 (WTG 02)	06:20	06:28	05:46	51	07:03 (WTG 01)
	16:52	17:30		18:03	19:37	20:09		05:27
13	07:26	07:00	26 07:29 (WTG 02)	06:18	06:26	05:45	50	07:03 (WTG 01)
	16:53	17:31		18:04	19:38	20:10		20:35
14	07:26	06:59	25 07:29 (WTG 02)	06:16	06:25	05:44	50	07:03 (WTG 01)
	16:54	17:32		18:06	19:39	20:11		05:27
15	07:26	06:58	26 07:29 (WTG 02)	06:15	06:23	05:43	51	07:04 (WTG 01)
	16:55	17:34		18:07	19:41	20:12		05:27
16	07:25	06:56	26 07:30 (WTG 02)	06:13	06:21	05:42	51	07:04 (WTG 01)
	16:56	17:35		18:08	19:42	20:13		05:27
17	07:25	06:55	25 07:30 (WTG 02)	06:11	06:20	05:41	51	07:04 (WTG 01)
	16:58	17:36		18:09	19:43	20:14		05:27
18	07:24	06:54	23 07:31 (WTG 02)	06:10	06:18	05:40	51	07:04 (WTG 01)
	16:59	17:37		18:10	19:44	20:15		05:27
19	07:24	06:52	22 07:33 (WTG 02)	06:08	06:17	05:39	52	07:05 (WTG 01)
	17:00	17:39		18:11	19:45	20:16		05:27
20	07:23	06:51	19 07:32 (WTG 02)	06:06	06:15	05:38	52	07:05 (WTG 01)
	17:01	17:40		18:12	19:46	20:17		05:27
21	07:23	06:49	17 07:50 (WTG 02)	06:03	06:12	05:37	52	07:06 (WTG 01)
	17:02	17:41		18:13	19:47	20:18		05:27
22	07:22	06:48	12 07:48 (WTG 02)	06:03	06:12	05:37	51	07:06 (WTG 01)
	17:04	17:42		18:14	19:48	20:19		05:27
23	07:21	06:46	2 07:42 (WTG 02)	06:01	06:11	05:36	51	07:06 (WTG 01)
	17:05	17:43		18:16	19:49	20:20		05:28
24	07:21	06:45		05:59	06:09	05:35	52	07:06 (WTG 01)
	17:06	17:45		18:17	19:50	20:21		05:28
25	07:20	06:43		05:58	06:08	05:34	52	07:07 (WTG 01)
	17:07	17:46		18:18	19:51	20:22		05:28
26	07:19	06:42		05:56	06:06	05:34	51	07:07 (WTG 01)
	17:08	17:47		18:19	19:52	20:23		05:29
27	07:18	06:40		05:54	06:05	05:33	51	07:06 (WTG 01)
	17:10	17:48		18:20	19:53	20:24		05:29
28	07:17	06:39		05:53	06:04	05:32	51	07:07 (WTG 01)
	17:11	17:49		18:21	19:55	20:25		05:29
29	07:17			06:51	06:02	05:32	51	07:07 (WTG 01)
	17:12			19:22	19:56	20:25		05:30
30	07:16			06:49	06:01	05:31	51	07:07 (WTG 01)
	17:13			19:23	19:57	20:26		05:30
31	07:15			06:48		05:31	50	07:07 (WTG 01)
	17:15			19:24		20:27		05:30
Ore potenziali eliofania	296	297		369	399	449	454	1508
Totale, caso peggiore		384				581		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 87 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (402)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembr		Ottobre		Novembre		Dicembre	
1	05:31	06:17 (WTG 01)	05:55	06:26	06:57				06:32	06:59 (WTG 02)	07:07	
	20:39	50 07:07 (WTG 01)	20:19	19:36	18:45				16:57	24 07:23 (WTG 02)	16:32	
2	05:31	06:17 (WTG 01)	05:56	06:27	06:58				06:33	07:00 (WTG 02)	07:08	
	20:39	51 07:08 (WTG 01)	20:18	19:34	18:43				16:56	24 07:24 (WTG 02)	16:32	
3	05:32	06:17 (WTG 01)	05:57	06:28	06:59				06:34	07:01 (WTG 02)	07:09	
	20:39	50 07:07 (WTG 01)	20:17	19:32	18:41				16:55	22 07:23 (WTG 02)	16:32	
4	05:32	06:18 (WTG 01)	05:58	06:29	07:00				06:35	07:01 (WTG 02)	07:10	
	20:38	50 07:08 (WTG 01)	20:16	19:31	18:40				16:54	20 07:21 (WTG 02)	16:32	
5	05:33	06:19 (WTG 01)	05:59	06:30	07:01				06:36	07:03 (WTG 02)	07:11	
	20:38	49 07:08 (WTG 01)	20:15	19:29	18:38				16:52	18 07:21 (WTG 02)	16:32	
6	05:33	06:18 (WTG 01)	06:00	06:31	07:02				06:38	07:05 (WTG 02)	07:12	
	20:38	50 07:08 (WTG 01)	20:14	19:27	18:36				16:51	14 07:19 (WTG 02)	16:31	
7	05:34	06:19 (WTG 01)	06:01	06:32	07:03				06:39	07:07 (WTG 02)	07:13	
	20:38	49 07:08 (WTG 01)	20:12	19:26	18:35				16:50	10 07:17 (WTG 02)	16:31	
8	05:35	06:19 (WTG 01)	06:02	06:33	07:04				06:40		07:14	
	20:37	48 07:07 (WTG 01)	20:11	19:24	18:33				16:49		16:31	
9	05:35	06:20 (WTG 01)	06:03	06:34	07:05				06:41		07:15	
	20:37	48 07:08 (WTG 01)	20:10	19:22	18:31				16:48		16:31	
10	05:36	06:20 (WTG 01)	06:04	06:35	07:06				06:43		07:16	
	20:36	48 07:08 (WTG 01)	20:09	19:21	18:30				16:47		16:31	
11	05:37	06:20 (WTG 01)	06:05	06:36	07:08				06:44		07:17	
	20:36	47 07:07 (WTG 01)	20:07	19:19	18:28				16:46		16:31	
12	05:37	06:21 (WTG 01)	06:06	06:37	07:09				06:45		07:17	
	20:36	46 07:07 (WTG 01)	20:06	19:17	18:26				16:45		16:31	
13	05:38	06:22 (WTG 01)	06:07	06:38	07:10				06:46		07:18	
	20:35	45 07:07 (WTG 01)	20:05	19:16	18:25				16:44		16:32	
14	05:39	06:22 (WTG 01)	06:08	06:39	07:11				06:47		07:19	
	20:34	45 07:07 (WTG 01)	20:03	19:14	18:23				16:43		16:32	
15	05:40	06:22 (WTG 01)	06:09	06:40	07:12				06:49		07:20	
	20:34	44 07:06 (WTG 01)	20:02	19:12	18:22				16:42		16:32	
16	05:40	06:23 (WTG 01)	06:10	06:41	07:13				06:50		07:20	
	20:33	43 07:06 (WTG 01)	20:00	19:10	18:20				16:41		16:32	
17	05:41	06:24 (WTG 01)	06:11	06:42	07:14				06:51		07:21	
	20:33	42 07:06 (WTG 01)	19:59	19:09	18:19				16:40		16:32	
18	05:42	06:25 (WTG 01)	06:12	06:43	07:15				06:52		07:22	
	20:32	41 07:06 (WTG 01)	19:58	19:07	18:17				16:40		16:33	
19	05:43	06:26 (WTG 01)	06:13	06:44	07:16				06:53		07:22	
	20:31	39 07:05 (WTG 01)	19:56	19:05	18:15				16:39		16:33	
20	05:44	06:26 (WTG 01)	06:14	06:45	07:18				06:55		07:23	
	20:31	38 07:04 (WTG 01)	19:55	19:04	18:14	8	08:16 (WTG 02)	16:38			16:34	
21	05:45	06:27 (WTG 01)	06:15	06:46	07:19				08:06 (WTG 02)	06:56	07:24	
	20:30	36 07:03 (WTG 01)	19:53	19:02	18:12	13	08:19 (WTG 02)	16:37			16:34	
22	05:45	06:28 (WTG 01)	06:16	06:47	07:20				08:04 (WTG 02)	06:57	07:24	
	20:29	35 07:03 (WTG 01)	19:52	19:00	18:11	17	08:21 (WTG 02)	16:37			16:35	
23	05:46	06:29 (WTG 01)	06:17	06:48	07:21				08:02 (WTG 02)	06:58	07:25	
	20:28	33 07:02 (WTG 01)	19:50	18:58	18:10	20	08:22 (WTG 02)	16:36			16:35	
24	05:47	06:31 (WTG 01)	06:18	06:50	07:22				08:01 (WTG 02)	06:59	07:25	
	20:27	30 07:01 (WTG 01)	19:49	18:57	18:08	22	08:23 (WTG 02)	16:36			16:36	
25	05:48	06:32 (WTG 01)	06:19	06:51	06:23				07:00 (WTG 02)	07:00	07:26	
	20:26	27 06:59 (WTG 01)	19:47	18:55	17:07	24	07:24 (WTG 02)	16:35			16:36	
26	05:49	06:34 (WTG 01)	06:20	06:52	06:25				07:00 (WTG 02)	07:02	07:26	
	20:26	24 06:58 (WTG 01)	19:45	18:53	17:05	24	07:24 (WTG 02)	16:35			16:37	
27	05:50	06:36 (WTG 01)	06:21	06:53	06:26				06:59 (WTG 02)	07:03	07:26	
	20:25	20 06:56 (WTG 01)	19:44	18:51	17:04	25	07:24 (WTG 02)	16:34			16:37	
28	05:51	06:38 (WTG 01)	06:22	06:54	06:27				06:58 (WTG 02)	07:04	07:27	
	20:24	14 06:52 (WTG 01)	19:42	18:50	17:03	26	07:24 (WTG 02)	16:34			16:38	
29	05:52		06:23	06:55	06:28				06:59 (WTG 02)	07:05	07:27	
	20:23		19:41	18:48	17:01	26	07:25 (WTG 02)	16:33			16:39	
30	05:53		06:24	06:56	06:29				06:59 (WTG 02)	07:06	07:27	
	20:22		19:39	18:46	17:00	26	07:25 (WTG 02)	16:33			16:40	
31	05:54		06:25		06:30				06:59 (WTG 02)		07:27	
	20:21		19:37		16:59	25	07:24 (WTG 02)				16:40	
Ore potenziali eliofania	460		429	375	345	256		297	132		286	
Totale, caso peggiore	1142											

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 88 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (388)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno			
1	07:28	07:14	06:37	06:46	06:00	05:30	06:13 (WTG 01)		
	16:41	17:16	17:51	19:25	19:58	20:28	46 06:59 (WTG 01)		
2	07:28	07:13	06:36	06:44	05:58	05:30	06:12 (WTG 01)		
	16:42	17:17	17:52	19:26	19:59	20:29	47 06:59 (WTG 01)		
3	07:28	07:12	07:39 (WTG 02)	06:34	06:43	05:57	05:29	06:12 (WTG 01)	
	16:43	17:19	07:45 (WTG 02)	17:53	19:28	20:00	20:29	48 07:00 (WTG 01)	
4	07:28	07:11	07:36 (WTG 02)	06:33	06:41	05:56	05:29	06:12 (WTG 01)	
	16:44	17:20	07:49 (WTG 02)	17:54	19:29	20:01	20:30	48 07:00 (WTG 01)	
5	07:28	07:10	07:34 (WTG 02)	06:31	06:39	05:54	05:29	06:12 (WTG 01)	
	16:45	17:21	07:51 (WTG 02)	17:55	19:30	20:02	20:31	48 07:00 (WTG 01)	
6	07:28	07:09	07:33 (WTG 02)	06:29	06:38	05:53	05:28	06:12 (WTG 01)	
	16:46	17:22	07:52 (WTG 02)	17:56	19:31	20:03	20:31	49 07:01 (WTG 01)	
7	07:28	07:07	07:31 (WTG 02)	06:28	06:36	05:52	05:28	06:12 (WTG 01)	
	16:47	17:24	07:53 (WTG 02)	17:58	19:32	20:04	20:32	49 07:01 (WTG 01)	
8	07:28	07:06	07:31 (WTG 02)	06:26	06:34	05:51	05:28	06:12 (WTG 01)	
	16:48	17:25	07:54 (WTG 02)	17:59	19:33	20:05	20:33	50 07:02 (WTG 01)	
9	07:27	07:05	07:30 (WTG 02)	06:25	06:33	05:50	05:27	06:12 (WTG 01)	
	16:49	17:26	07:55 (WTG 02)	18:00	19:34	20:06	20:33	50 07:02 (WTG 01)	
10	07:27	07:04	07:30 (WTG 02)	06:23	06:31	05:48	05:27	06:12 (WTG 01)	
	16:50	17:27	07:55 (WTG 02)	18:01	19:35	20:07	20:34	50 07:02 (WTG 01)	
11	07:27	07:03	07:29 (WTG 02)	06:21	06:29	05:47	05:27	06:12 (WTG 01)	
	16:51	17:29	07:55 (WTG 02)	18:02	19:36	20:08	20:34	50 07:02 (WTG 01)	
12	07:27	07:01	07:29 (WTG 02)	06:20	06:28	05:46	05:27	06:12 (WTG 01)	
	16:52	17:30	07:55 (WTG 02)	18:03	19:37	20:09	20:35	51 07:02 (WTG 01)	
13	07:26	07:00	07:30 (WTG 02)	06:18	06:26	05:45	05:27	06:12 (WTG 01)	
	16:53	17:31	07:56 (WTG 02)	18:04	19:38	20:10	20:35	51 07:03 (WTG 01)	
14	07:26	06:59	07:29 (WTG 02)	06:16	06:25	05:44	05:27	06:12 (WTG 01)	
	16:54	17:32	07:55 (WTG 02)	18:06	19:39	20:11	20:36	51 07:03 (WTG 01)	
15	07:26	06:58	07:30 (WTG 02)	06:15	06:23	05:43	05:27	06:12 (WTG 01)	
	16:55	17:34	07:55 (WTG 02)	18:07	19:41	20:12	20:36	51 07:03 (WTG 01)	
16	07:25	06:56	07:31 (WTG 02)	06:13	06:21	05:42	05:27	06:13 (WTG 01)	
	16:56	17:35	07:55 (WTG 02)	18:08	19:42	20:13	10 06:29 (WTG 01)	05:27	51 07:04 (WTG 01)
17	07:25	06:55	07:30 (WTG 02)	06:11	06:20	05:41	06:26 (WTG 01)	05:27	06:13 (WTG 01)
	16:58	17:36	07:54 (WTG 02)	18:09	19:43	20:14	18 06:44 (WTG 01)	20:37	51 07:04 (WTG 01)
18	07:24	06:54	07:32 (WTG 02)	06:10	06:18	05:40	06:23 (WTG 01)	05:27	06:13 (WTG 01)
	16:59	17:37	07:53 (WTG 02)	18:10	19:44	20:15	23 06:46 (WTG 01)	20:37	51 07:04 (WTG 01)
19	07:24	06:52	07:33 (WTG 02)	06:08	06:17	05:39	06:21 (WTG 01)	05:27	06:13 (WTG 01)
	17:00	17:39	07:52 (WTG 02)	18:11	19:45	20:16	27 06:48 (WTG 01)	20:38	51 07:04 (WTG 01)
20	07:23	06:51	07:34 (WTG 02)	06:06	06:15	05:38	06:20 (WTG 01)	05:27	06:14 (WTG 01)
	17:01	17:40	07:50 (WTG 02)	18:12	19:46	20:17	29 06:49 (WTG 01)	20:38	51 07:05 (WTG 01)
21	07:23	06:49	07:37 (WTG 02)	06:05	06:14	05:38	06:18 (WTG 01)	05:27	06:14 (WTG 01)
	17:02	17:41	07:48 (WTG 02)	18:13	19:47	20:18	32 06:50 (WTG 01)	20:38	51 07:05 (WTG 01)
22	07:22	06:48		06:03	06:12	05:37	06:18 (WTG 01)	05:27	06:14 (WTG 01)
	17:04	17:42		18:14	19:48	20:19	34 06:52 (WTG 01)	20:38	51 07:05 (WTG 01)
23	07:21	06:46		06:01	06:11	05:36	06:17 (WTG 01)	05:28	06:14 (WTG 01)
	17:05	17:43		18:16	19:49	20:20	36 06:53 (WTG 01)	20:39	51 07:05 (WTG 01)
24	07:21	06:45		05:59	06:09	05:35	06:16 (WTG 01)	05:28	06:15 (WTG 01)
	17:06	17:45		18:17	19:50	20:21	37 06:53 (WTG 01)	20:39	51 07:06 (WTG 01)
25	07:20	06:43		05:58	06:08	05:34	06:16 (WTG 01)	05:28	06:15 (WTG 01)
	17:07	17:46		18:18	19:51	20:22	39 06:55 (WTG 01)	20:39	51 07:06 (WTG 01)
26	07:19	06:42		05:56	06:06	05:34	06:15 (WTG 01)	05:29	06:15 (WTG 01)
	17:08	17:47		18:19	19:52	20:23	40 06:55 (WTG 01)	20:39	51 07:06 (WTG 01)
27	07:18	06:40		05:54	06:05	05:33	06:14 (WTG 01)	05:29	06:15 (WTG 01)
	17:10	17:48		18:20	19:53	20:24	42 06:56 (WTG 01)	20:39	52 07:07 (WTG 01)
28	07:17	06:39		05:53	06:04	05:32	06:14 (WTG 01)	05:29	06:15 (WTG 01)
	17:11	17:49		18:21	19:55	20:25	43 06:57 (WTG 01)	20:39	51 07:06 (WTG 01)
29	07:17			06:51	06:02	05:32	06:13 (WTG 01)	05:30	06:15 (WTG 01)
	17:12			19:22	19:56	20:25	44 06:57 (WTG 01)	20:39	51 07:06 (WTG 01)
30	07:16			06:49	06:01	05:31	06:13 (WTG 01)	05:30	06:16 (WTG 01)
	17:13			19:23	19:57	20:26	45 06:58 (WTG 01)	20:39	51 07:07 (WTG 01)
31	07:15			06:48		05:31	06:12 (WTG 01)		
	17:15			19:24		20:27	46 06:58 (WTG 01)		
Ore potenziali eliofania	296	297	394	369	399	449	545	454	1505
Totale, caso peggiore									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 88 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (388)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:31	06:16 (WTG 01)	05:55	06:26	06:57				06:32	06:59 (WTG 02)	07:07	
	20:39	50 07:06 (WTG 01)	20:19	19:36	18:45				16:57	25 07:24 (WTG 02)	16:32	
2	05:31	06:17 (WTG 01)	05:56	06:27	06:58				06:33	07:00 (WTG 02)	07:08	
	20:39	50 07:07 (WTG 01)	20:18	19:34	18:43				16:56	24 07:24 (WTG 02)	16:32	
3	05:32	06:17 (WTG 01)	05:57	06:28	06:59				06:34	07:01 (WTG 02)	07:09	
	20:39	50 07:07 (WTG 01)	20:17	19:32	18:41				16:55	22 07:23 (WTG 02)	16:32	
4	05:32	06:17 (WTG 01)	05:58	06:29	07:00				06:35	07:01 (WTG 02)	07:10	
	20:38	50 07:07 (WTG 01)	20:16	19:31	18:40				16:54	21 07:22 (WTG 02)	16:32	
5	05:33	06:18 (WTG 01)	05:59	06:30	07:01				06:36	07:03 (WTG 02)	07:11	
	20:38	50 07:08 (WTG 01)	20:15	19:29	18:38				16:52	19 07:22 (WTG 02)	16:32	
6	05:33	06:18 (WTG 01)	06:00	06:31	07:02				06:38	07:04 (WTG 02)	07:12	
	20:38	49 07:07 (WTG 01)	20:14	19:27	18:36				16:51	16 07:20 (WTG 02)	16:31	
7	05:34	06:19 (WTG 01)	06:01	06:32	07:03				06:39	07:06 (WTG 02)	07:13	
	20:38	48 07:07 (WTG 01)	20:12	19:26	18:35				16:50	12 07:18 (WTG 02)	16:31	
8	05:35	06:18 (WTG 01)	06:02	06:33	07:04				06:40	07:09 (WTG 02)	07:14	
	20:37	49 07:07 (WTG 01)	20:11	19:24	18:33				16:49	6 07:15 (WTG 02)	16:31	
9	05:35	06:19 (WTG 01)	06:03	06:34	07:05				06:41		07:15	
	20:37	48 07:07 (WTG 01)	20:10	19:22	18:31				16:48		16:31	
10	05:36	06:20 (WTG 01)	06:04	06:35	07:06				06:43		07:16	
	20:36	47 07:07 (WTG 01)	20:09	19:21	18:30				16:47		16:31	
11	05:37	06:20 (WTG 01)	06:05	06:36	07:08				06:44		07:17	
	20:36	46 07:06 (WTG 01)	20:07	19:19	18:28				16:46		16:31	
12	05:37	06:21 (WTG 01)	06:06	06:37	07:09				06:45		07:17	
	20:36	45 07:06 (WTG 01)	20:06	19:17	18:26				16:45		16:31	
13	05:38	06:21 (WTG 01)	06:07	06:38	07:10				06:46		07:18	
	20:35	45 07:06 (WTG 01)	20:05	19:16	18:25				16:44		16:32	
14	05:39	06:22 (WTG 01)	06:08	06:39	07:11				06:47		07:19	
	20:34	44 07:06 (WTG 01)	20:03	19:14	18:23				16:43		16:32	
15	05:40	06:22 (WTG 01)	06:09	06:40	07:12				06:49		07:20	
	20:34	43 07:05 (WTG 01)	20:02	19:12	18:22				16:42		16:32	
16	05:40	06:23 (WTG 01)	06:10	06:41	07:13				06:50		07:20	
	20:33	42 07:05 (WTG 01)	20:00	19:10	18:20				16:41		16:32	
17	05:41	06:24 (WTG 01)	06:11	06:42	07:14				06:51		07:21	
	20:33	41 07:05 (WTG 01)	19:59	19:09	18:19				16:40		16:32	
18	05:42	06:25 (WTG 01)	06:12	06:43	07:15				06:52		07:22	
	20:32	40 07:05 (WTG 01)	19:58	19:07	18:17				16:40		16:33	
19	05:43	06:26 (WTG 01)	06:13	06:44	07:16				06:53		07:22	
	20:31	38 07:04 (WTG 01)	19:56	19:05	18:15				16:39		16:33	
20	05:44	06:26 (WTG 01)	06:14	06:45	07:18				06:55		07:23	
	20:31	37 07:03 (WTG 01)	19:55	19:04	18:14	4	08:10 (WTG 02)	06:55			07:23	
21	05:45	06:27 (WTG 01)	06:15	06:46	07:19		08:14 (WTG 02)	16:38			16:34	
	20:30	35 07:02 (WTG 01)	19:53	19:02	18:12	12	08:07 (WTG 02)	06:56			07:24	
22	05:45	06:28 (WTG 01)	06:16	06:47	07:20		08:19 (WTG 02)	16:37			16:34	
	20:29	33 07:01 (WTG 01)	19:52	19:00	18:11	17	08:04 (WTG 02)	06:57			07:24	
23	05:46	06:29 (WTG 01)	06:17	06:48	07:21		08:21 (WTG 02)	16:37			16:35	
	20:28	31 07:00 (WTG 01)	19:50	18:58	18:10	19	08:03 (WTG 02)	06:58			07:25	
24	05:47	06:31 (WTG 01)	06:18	06:50	07:22		08:22 (WTG 02)	16:36			16:35	
	20:27	28 06:59 (WTG 01)	19:49	18:57	18:08	22	08:01 (WTG 02)	06:59			07:25	
25	05:48	06:33 (WTG 01)	06:19	06:51	06:23		08:23 (WTG 02)	16:36			16:36	
	20:26	24 06:57 (WTG 01)	19:47	18:55	17:07	23	07:01 (WTG 02)	07:00			07:26	
26	05:49	06:35 (WTG 01)	06:20	06:52	06:25		07:24 (WTG 02)	16:35			16:36	
	20:26	21 06:56 (WTG 01)	19:45	18:53	17:05	25	07:00 (WTG 02)	07:02			07:26	
27	05:50	06:38 (WTG 01)	06:21	06:53	06:26		07:25 (WTG 02)	16:35			16:37	
	20:25	15 06:53 (WTG 01)	19:44	18:51	17:04	26	06:59 (WTG 02)	07:03			07:26	
28	05:51	06:42 (WTG 01)	06:22	06:54	06:27		07:25 (WTG 02)	16:34			16:37	
	20:24	5 06:47 (WTG 01)	19:42	18:50	17:03	26	06:59 (WTG 02)	07:04			07:27	
29	05:52		06:23	06:55	06:28		07:25 (WTG 02)	16:34			16:38	
	20:23		19:41	18:48	17:01	26	06:59 (WTG 02)	07:05			07:27	
30	05:53		06:24	06:56	06:29		07:25 (WTG 02)	16:33			16:39	
	20:22		19:39	18:46	17:00	26	06:59 (WTG 02)	07:06			07:27	
31	05:54		06:25		06:30		07:25 (WTG 02)	16:33			16:40	
	20:21		19:37		16:59	26	06:59 (WTG 02)				07:27	
Ore potenziali eliofania	460		429	375	345			297	145		286	
Totale, caso peggiore	1104					252						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 89 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (389)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:28		07:50 (WTG 02)	07:14		07:50 (WTG 02)	06:37		06:46	06:00		05:30
	16:41	26	08:16 (WTG 02)	17:16	42	08:32 (WTG 02)	17:51		19:25	19:58		20:28
2	07:28		07:50 (WTG 02)	07:13		07:50 (WTG 02)	06:36		06:44	05:58		05:30
	16:42	27	08:17 (WTG 02)	17:17	42	08:32 (WTG 02)	17:52		19:26	19:59		20:28
3	07:28		07:50 (WTG 02)	07:12		07:51 (WTG 02)	06:34		06:43	05:57		05:29
	16:43	28	08:18 (WTG 02)	17:19	41	08:32 (WTG 02)	17:53		19:27	20:00		20:29
4	07:28		07:50 (WTG 02)	07:11		07:52 (WTG 02)	06:33		06:41	05:56		05:29
	16:44	29	08:19 (WTG 02)	17:20	39	08:31 (WTG 02)	17:54		19:29	20:01		20:30
5	07:28		07:50 (WTG 02)	07:10		07:53 (WTG 02)	06:31		06:39	05:54		05:29
	16:45	30	08:20 (WTG 02)	17:21	38	08:31 (WTG 02)	17:55		19:30	20:02		20:31
6	07:28		07:50 (WTG 02)	07:09		07:53 (WTG 02)	06:29		06:38	05:53		05:28
	16:46	31	08:21 (WTG 02)	17:22	36	08:29 (WTG 02)	17:56		19:31	20:03		20:31
7	07:28		07:50 (WTG 02)	07:07		07:55 (WTG 02)	06:28		06:36	05:52		05:28
	16:47	32	08:22 (WTG 02)	17:24	33	08:28 (WTG 02)	17:58		19:32	20:04		20:32
8	07:28		07:50 (WTG 02)	07:06		07:56 (WTG 02)	06:26		06:34	05:51		05:28
	16:48	33	08:23 (WTG 02)	17:25	31	08:27 (WTG 02)	17:59		19:33	20:05		20:33
9	07:27		07:49 (WTG 02)	07:05		07:58 (WTG 02)	06:25		06:33	05:50		05:27
	16:49	34	08:23 (WTG 02)	17:26	28	08:26 (WTG 02)	18:00		19:34	20:06		20:33
10	07:27		07:49 (WTG 02)	07:04		08:00 (WTG 02)	06:23		06:31	05:48		05:27
	16:50	35	08:24 (WTG 02)	17:27	24	08:24 (WTG 02)	18:01		19:35	20:07		20:34
11	07:27		07:49 (WTG 02)	07:03		08:02 (WTG 02)	06:21		06:29	05:47		05:27
	16:51	36	08:25 (WTG 02)	17:29	19	08:21 (WTG 02)	18:02		19:36	20:08		20:34
12	07:27		07:48 (WTG 02)	07:01		08:06 (WTG 02)	06:20		06:28	05:46		05:27
	16:52	37	08:25 (WTG 02)	17:30	11	08:17 (WTG 02)	18:03		19:37	20:09		20:35
13	07:26		07:48 (WTG 02)	07:00			06:18		06:26	05:45		05:27
	16:53	39	08:27 (WTG 02)	17:31			18:04		19:38	20:10		20:35
14	07:26		07:48 (WTG 02)	06:59			06:16		06:25	05:44		05:27
	16:54	40	08:28 (WTG 02)	17:32			18:06		19:39	20:11		20:36
15	07:26		07:47 (WTG 02)	06:58			06:15		06:23	05:43		05:27
	16:55	41	08:28 (WTG 02)	17:34			18:07		19:40	20:12		20:36
16	07:25		07:47 (WTG 02)	06:56			06:13		06:21	05:42		05:27
	16:56	42	08:29 (WTG 02)	17:35			18:08		19:42	20:13		20:37
17	07:25		07:46 (WTG 02)	06:55			06:11		06:20	05:41		05:27
	16:58	43	08:29 (WTG 02)	17:36			18:09		19:43	20:14		20:37
18	07:24		07:45 (WTG 02)	06:54			06:10		06:18	05:40		05:27
	16:59	44	08:29 (WTG 02)	17:37			18:10		19:44	20:15		20:37
19	07:24		07:46 (WTG 02)	06:52			06:08		06:17	05:39		05:27
	17:00	45	08:31 (WTG 02)	17:39			18:11		19:45	20:16		20:38
20	07:23		07:46 (WTG 02)	06:51			06:06		06:15	05:38		05:27
	17:01	45	08:31 (WTG 02)	17:40			18:12		19:46	20:17		20:38
21	07:23		07:46 (WTG 02)	06:49			06:05		06:14	05:38		05:27
	17:02	46	08:32 (WTG 02)	17:41			18:13		19:47	20:18		20:38
22	07:22		07:46 (WTG 02)	06:48			06:03		06:12	05:37		05:27
	17:04	46	08:32 (WTG 02)	17:42			18:14		19:48	20:19		20:38
23	07:21		07:46 (WTG 02)	06:46			06:01		06:11	05:36		05:28
	17:05	46	08:32 (WTG 02)	17:43			18:16		19:49	20:20		20:39
24	07:21		07:46 (WTG 02)	06:45			05:59		06:09	05:35		05:28
	17:06	46	08:32 (WTG 02)	17:45			18:17		19:50	20:21		20:39
25	07:20		07:47 (WTG 02)	06:43			05:58		06:08	05:34		05:28
	17:07	46	08:33 (WTG 02)	17:46			18:18		19:51	20:22		20:39
26	07:19		07:47 (WTG 02)	06:42			05:56		06:06	05:34		05:29
	17:08	46	08:33 (WTG 02)	17:47			18:19		19:52	20:23		20:39
27	07:18		07:48 (WTG 02)	06:40			05:54		06:05	05:33		05:29
	17:10	45	08:33 (WTG 02)	17:48			18:20		19:53	20:24		20:39
28	07:17		07:48 (WTG 02)	06:39			05:53		06:04	05:32		05:29
	17:11	45	08:33 (WTG 02)	17:49			18:21		19:55	20:25		20:39
29	07:17		07:48 (WTG 02)				06:51		06:02	05:32		05:30
	17:12	45	08:33 (WTG 02)				19:22		19:56	20:25		20:39
30	07:16		07:49 (WTG 02)				06:49		06:01	05:31		05:30
	17:13	44	08:33 (WTG 02)				19:23		19:57	20:26		20:39
31	07:15		07:49 (WTG 02)				06:48			05:31		
	17:15	44	08:33 (WTG 02)				19:24			20:27		
Ore potenziali eliofanìa	296			297			369		399	449		454
Totale, caso peggiore	1216			384								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 89 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (389)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57		07:07 16:32	07:31 (WTG 02) 08:07 (WTG 02)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		06:33 16:56	24	07:28 (WTG 02) 07:56 (WTG 02)	07:32 (WTG 02) 08:07 (WTG 02)
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		06:34 16:55	28	07:26 (WTG 02) 07:57 (WTG 02)	07:33 (WTG 02) 08:07 (WTG 02)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40		06:35 16:54	31	07:24 (WTG 02) 07:58 (WTG 02)	07:34 (WTG 02) 08:07 (WTG 02)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38		06:36 16:52	34	07:23 (WTG 02) 07:59 (WTG 02)	07:35 (WTG 02) 08:07 (WTG 02)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36		06:38 16:51	36	07:23 (WTG 02) 08:01 (WTG 02)	07:36 (WTG 02) 08:07 (WTG 02)
7	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:35		06:39 16:50	38	07:22 (WTG 02) 08:01 (WTG 02)	07:37 (WTG 02) 08:07 (WTG 02)
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33		06:40 16:49	39	07:21 (WTG 02) 08:02 (WTG 02)	07:38 (WTG 02) 08:07 (WTG 02)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31		06:41 16:48	41	07:21 (WTG 02) 08:03 (WTG 02)	07:39 (WTG 02) 08:07 (WTG 02)
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30		06:42 16:47	42	07:21 (WTG 02) 08:03 (WTG 02)	07:40 (WTG 02) 08:07 (WTG 02)
11	05:37 20:36	06:05 20:09	06:36 19:21	07:07 18:29		06:44 16:46	42	07:20 (WTG 02) 08:04 (WTG 02)	07:40 (WTG 02) 08:06 (WTG 02)
12	05:37 20:36	06:06 20:06	06:37 19:17	07:09 18:26		06:45 16:45	44	07:20 (WTG 02) 08:05 (WTG 02)	07:41 (WTG 02) 08:07 (WTG 02)
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25		06:46 16:44	45	07:20 (WTG 02) 08:05 (WTG 02)	07:42 (WTG 02) 08:07 (WTG 02)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23		06:47 16:43	45	07:20 (WTG 02) 08:05 (WTG 02)	07:43 (WTG 02) 08:07 (WTG 02)
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22		06:49 16:42	45	07:20 (WTG 02) 08:05 (WTG 02)	07:44 (WTG 02) 08:08 (WTG 02)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20		06:50 16:41	46	07:20 (WTG 02) 08:06 (WTG 02)	07:44 (WTG 02) 08:07 (WTG 02)
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18		06:51 16:40	46	07:20 (WTG 02) 08:06 (WTG 02)	07:45 (WTG 02) 08:08 (WTG 02)
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17		06:52 16:40	46	07:20 (WTG 02) 08:06 (WTG 02)	07:46 (WTG 02) 08:08 (WTG 02)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15		06:53 16:39	46	07:21 (WTG 02) 08:07 (WTG 02)	07:46 (WTG 02) 08:08 (WTG 02)
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14		06:55 16:38	46	07:21 (WTG 02) 08:07 (WTG 02)	07:47 (WTG 02) 08:09 (WTG 02)
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12		06:56 16:37	46	07:21 (WTG 02) 08:07 (WTG 02)	07:47 (WTG 02) 08:09 (WTG 02)
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11		06:57 16:37	46	07:22 (WTG 02) 08:07 (WTG 02)	07:48 (WTG 02) 08:10 (WTG 02)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10		06:58 16:36	45	07:23 (WTG 02) 08:08 (WTG 02)	07:48 (WTG 02) 08:10 (WTG 02)
24	05:47 20:27	06:18 19:49	06:49 18:57	07:22 18:08		06:59 16:36	45	07:23 (WTG 02) 08:07 (WTG 02)	07:48 (WTG 02) 08:10 (WTG 02)
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07		07:00 16:35	44	07:24 (WTG 02) 08:07 (WTG 02)	07:49 (WTG 02) 08:11 (WTG 02)
26	05:49 20:26	06:20 19:45	06:52 18:53	07:24 17:05		07:01 16:35	43	07:25 (WTG 02) 08:07 (WTG 02)	07:49 (WTG 02) 08:12 (WTG 02)
27	05:50 20:25	06:21 19:44	06:53 18:51	07:25 17:04		07:03 16:34	42	07:26 (WTG 02) 08:07 (WTG 02)	07:49 (WTG 02) 08:12 (WTG 02)
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:03		07:04 16:34	41	07:27 (WTG 02) 08:07 (WTG 02)	07:50 (WTG 02) 08:14 (WTG 02)
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01		07:05 16:33	40	07:29 (WTG 02) 08:08 (WTG 02)	07:50 (WTG 02) 08:14 (WTG 02)
30	05:53 20:22	06:24 19:39	06:56 18:46	07:29 17:00	13	07:06 07:48 (WTG 02)	39	07:30 (WTG 02) 08:07 (WTG 02)	07:50 (WTG 02) 08:15 (WTG 02)
31	05:54 20:21	06:25 19:37		07:30 16:59	20	07:31 (WTG 02) 07:51 (WTG 02)	37	08:07 (WTG 02)	07:50 (WTG 02) 08:15 (WTG 02)
Ore potenziali eliofania	460	429	375	345		297		286	
Totale, caso peggiore				33		1231		806	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 90 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (390)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:28 16:41	07:14 17:16	06:37 17:51	15:42 (WTG 01) 16:49 (WTG 01)	06:46 19:25	17:03 (WTG 01) 17:19 (WTG 01)	05:59 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	15:42 (WTG 01) 16:50 (WTG 01)	06:44 19:26		05:58 19:59	20:28 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	15:41 (WTG 01) 16:50 (WTG 01)	06:43 19:27		05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	15:41 (WTG 01) 16:51 (WTG 01)	06:41 19:29		05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	15:40 (WTG 01) 16:51 (WTG 01)	06:39 19:30		05:54 20:02	05:28 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56	15:40 (WTG 01) 16:51 (WTG 01)	06:38 19:31		05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	15:40 (WTG 01) 16:51 (WTG 01)	06:36 19:32		05:52 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59	15:39 (WTG 01) 16:51 (WTG 01)	06:34 19:33		05:51 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00	15:39 (WTG 01) 16:50 (WTG 01)	06:33 19:34		05:50 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	15:39 (WTG 01) 16:51 (WTG 01)	06:31 19:35		05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	15:39 (WTG 01) 16:50 (WTG 01)	06:29 19:36		05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	15:39 (WTG 01) 16:50 (WTG 01)	06:28 19:37		05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	15:39 (WTG 01) 16:50 (WTG 01)	06:26 19:38		05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	16:14 (WTG 01) 16:20 (WTG 01)	15:39 (WTG 01) 16:49 (WTG 01)	06:25 19:39		05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	16:07 (WTG 01) 16:28 (WTG 01)	15:39 (WTG 01) 16:48 (WTG 01)	06:23 19:40		05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	16:03 (WTG 01) 16:32 (WTG 01)	15:40 (WTG 01) 16:48 (WTG 01)	06:21 19:42		05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	15:59 (WTG 01) 16:34 (WTG 01)	15:40 (WTG 01) 16:47 (WTG 01)	06:20 19:43		05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	15:57 (WTG 01) 16:37 (WTG 01)	15:41 (WTG 01) 16:46 (WTG 01)	06:18 19:44		05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	15:56 (WTG 01) 16:40 (WTG 01)	15:42 (WTG 01) 16:46 (WTG 01)	06:17 19:45		05:39 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	15:53 (WTG 01) 16:41 (WTG 01)	15:42 (WTG 01) 16:45 (WTG 01)	06:15 19:46		05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	15:52 (WTG 01) 16:43 (WTG 01)	15:43 (WTG 01) 16:44 (WTG 01)	06:14 19:47		05:37 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	15:50 (WTG 01) 16:44 (WTG 01)	15:43 (WTG 01) 16:42 (WTG 01)	06:12 19:48		05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	15:49 (WTG 01) 16:45 (WTG 01)	15:45 (WTG 01) 16:42 (WTG 01)	06:11 19:49		05:36 20:20	05:28 20:39
24	07:21 17:06	06:45 17:45	15:47 (WTG 01) 16:46 (WTG 01)	15:46 (WTG 01) 16:40 (WTG 01)	06:09 19:50		05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	15:47 (WTG 01) 16:47 (WTG 01)	15:47 (WTG 01) 16:38 (WTG 01)	06:08 19:51		05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	15:45 (WTG 01) 16:48 (WTG 01)	15:49 (WTG 01) 16:37 (WTG 01)	06:06 19:52		05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	15:45 (WTG 01) 16:49 (WTG 01)	15:50 (WTG 01) 16:35 (WTG 01)	06:05 19:53		05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	15:43 (WTG 01) 16:49 (WTG 01)	15:51 (WTG 01) 16:33 (WTG 01)	06:04 19:55		05:32 20:25	05:29 20:39
29	07:17 17:12		06:51 19:22	16:54 (WTG 01) 17:31 (WTG 01)	06:02 19:56		05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	16:56 (WTG 01) 17:28 (WTG 01)	06:01 19:57		05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24	16:59 (WTG 01) 17:24 (WTG 01)			05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454		
Totale, caso peggiore		696	1892	16				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 90 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (390)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre	Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45		16:18 (WTG 01) 17:29 (WTG 01)	06:32 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	71	16:18 (WTG 01) 17:29 (WTG 01)	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41		16:17 (WTG 01) 17:29 (WTG 01)	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31		07:00 18:40		16:16 (WTG 01) 17:28 (WTG 01)	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29		07:01 18:38	72	16:16 (WTG 01) 17:28 (WTG 01)	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27		07:02 18:36		16:16 (WTG 01) 17:27 (WTG 01)	06:38 16:51	07:12 16:31
7	05:34 20:38	06:01 20:12	06:32 19:26		07:03 18:35		16:15 (WTG 01) 17:27 (WTG 01)	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24		07:04 18:33		16:16 (WTG 01) 17:27 (WTG 01)	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22		07:05 18:31		16:16 (WTG 01) 17:26 (WTG 01)	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21		07:06 18:30		16:16 (WTG 01) 17:25 (WTG 01)	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19		07:07 18:28		16:16 (WTG 01) 17:24 (WTG 01)	06:44 16:46	07:17 16:31
12	05:37 20:36	06:06 20:06	06:37 19:17	15	17:12 (WTG 01) 16:52 (WTG 01)	68	16:16 (WTG 01) 17:23 (WTG 01)	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	24	17:16 (WTG 01) 16:48 (WTG 01)	67	16:16 (WTG 01) 17:22 (WTG 01)	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	31	17:19 (WTG 01) 16:45 (WTG 01)	66	16:16 (WTG 01) 17:21 (WTG 01)	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	36	17:21 (WTG 01) 16:42 (WTG 01)	65	16:16 (WTG 01) 17:20 (WTG 01)	06:49 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	41	17:23 (WTG 01) 16:39 (WTG 01)	64	16:18 (WTG 01) 17:20 (WTG 01)	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	45	17:24 (WTG 01) 16:37 (WTG 01)	62	16:18 (WTG 01) 17:18 (WTG 01)	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	48	17:25 (WTG 01) 16:35 (WTG 01)	60	16:19 (WTG 01) 17:17 (WTG 01)	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	51	16:33 (WTG 01) 17:27 (WTG 01)	58	16:20 (WTG 01) 17:15 (WTG 01)	06:53 16:39	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	54	16:32 (WTG 01) 17:28 (WTG 01)	55	16:21 (WTG 01) 17:14 (WTG 01)	06:55 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	56	16:30 (WTG 01) 17:28 (WTG 01)	53	16:23 (WTG 01) 17:13 (WTG 01)	06:56 16:37	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	58	16:28 (WTG 01) 17:29 (WTG 01)	50	16:24 (WTG 01) 17:11 (WTG 01)	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	61	16:27 (WTG 01) 17:29 (WTG 01)	47	16:26 (WTG 01) 17:09 (WTG 01)	06:58 16:36	07:25 16:35
24	05:47 20:27	06:18 19:49	06:49 18:57	62	16:26 (WTG 01) 17:29 (WTG 01)	43	16:28 (WTG 01) 17:06 (WTG 01)	06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	63	16:24 (WTG 01) 17:30 (WTG 01)	38	15:30 (WTG 01) 16:03 (WTG 01)	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:44	06:52 18:53	66	16:23 (WTG 01) 17:30 (WTG 01)	33	15:34 (WTG 01) 16:01 (WTG 01)	07:01 16:34	07:26 16:37
27	05:50 20:25	06:21 19:42	06:53 18:51	67	16:22 (WTG 01) 17:30 (WTG 01)	27	15:37 (WTG 01) 15:56 (WTG 01)	07:03 16:34	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	68	16:21 (WTG 01) 17:30 (WTG 01)	19		07:04 16:34	07:27 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	69	16:20 (WTG 01) 17:30 (WTG 01)			07:05 16:33	07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	70	16:19 (WTG 01) 17:29 (WTG 01)			07:06 16:33	07:27 16:40
31	05:54 20:21	06:25 19:37		70	06:30 16:59				07:27 16:40
Ore potenziali eliofania	460	429	375		345			297	286
Totale, caso peggiore			1055		1586				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 91 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (403)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:28 16:41	07:14 17:16	06:37 17:51	15:48 (WTG 01) 16:50 (WTG 01)	06:46 19:25	16:56 (WTG 01) 17:33 (WTG 01)	05:59 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	15:48 (WTG 01) 16:52 (WTG 01)	06:44 19:26	16:59 (WTG 01) 17:31 (WTG 01)	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	15:46 (WTG 01) 16:52 (WTG 01)	06:43 19:27	17:01 (WTG 01) 17:27 (WTG 01)	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	15:46 (WTG 01) 16:53 (WTG 01)	06:41 19:29	17:05 (WTG 01) 17:22 (WTG 01)	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	15:45 (WTG 01) 16:53 (WTG 01)	06:39 19:30		05:54 20:02	05:28 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56	15:44 (WTG 01) 16:53 (WTG 01)	06:38 19:31		05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	15:44 (WTG 01) 16:54 (WTG 01)	06:36 19:32		05:52 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59	15:43 (WTG 01) 16:54 (WTG 01)	06:34 19:33		05:51 20:05	05:28 20:33
9	07:27 16:48	07:05 17:26	06:25 18:00	15:42 (WTG 01) 16:53 (WTG 01)	06:33 19:34		05:50 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	15:43 (WTG 01) 16:54 (WTG 01)	06:31 19:35		05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	15:42 (WTG 01) 16:54 (WTG 01)	06:29 19:36		05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	15:42 (WTG 01) 16:53 (WTG 01)	06:28 19:37		05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	15:42 (WTG 01) 16:54 (WTG 01)	06:26 19:38		05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	15:42 (WTG 01) 16:53 (WTG 01)	06:25 19:39		05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	15:41 (WTG 01) 16:52 (WTG 01)	06:23 19:40		05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	15:42 (WTG 01) 16:53 (WTG 01)	06:21 19:42		05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	15:42 (WTG 01) 16:52 (WTG 01)	06:20 19:43		05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	15:42 (WTG 01) 16:51 (WTG 01)	06:18 19:44		05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	15:43 (WTG 01) 16:51 (WTG 01)	06:17 19:45		05:39 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	15:43 (WTG 01) 16:50 (WTG 01)	06:15 19:46		05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	15:43 (WTG 01) 16:49 (WTG 01)	06:14 19:47		05:37 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	15:44 (WTG 01) 16:48 (WTG 01)	06:12 19:48		05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:16	15:45 (WTG 01) 16:48 (WTG 01)	06:11 19:49		05:36 20:20	05:28 20:39
24	07:21 17:06	06:45 17:45	05:59 18:17	15:45 (WTG 01) 16:46 (WTG 01)	06:09 19:50		05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	15:46 (WTG 01) 16:45 (WTG 01)	06:08 19:51		05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	15:48 (WTG 01) 16:44 (WTG 01)	06:06 19:52		05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	15:48 (WTG 01) 16:43 (WTG 01)	06:05 19:53		05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	15:49 (WTG 01) 16:41 (WTG 01)	06:04 19:55		05:32 20:25	05:29 20:39
29	07:17 17:12		06:51 19:22	16:51 (WTG 01) 17:40 (WTG 01)	06:02 19:56		05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	16:53 (WTG 01) 17:38 (WTG 01)	06:01 19:57		05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24	16:54 (WTG 01) 17:35 (WTG 01)			05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454		
Totale, caso peggiore		486	1992	112				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 91 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (403)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre	Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45		16:21 (WTG 01) 17:33 (WTG 01)	06:32 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	72	16:21 (WTG 01) 17:32 (WTG 01)	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41	71	16:20 (WTG 01) 17:32 (WTG 01)	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31		07:00 18:40	72	16:20 (WTG 01) 17:31 (WTG 01)	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29		07:01 18:38	71	16:20 (WTG 01) 17:31 (WTG 01)	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27		07:02 18:36	70	16:20 (WTG 01) 17:30 (WTG 01)	06:38 16:51	07:12 16:31
7	05:34 20:38	06:01 20:12	06:32 19:26		07:03 18:35	70	16:19 (WTG 01) 17:29 (WTG 01)	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	16	17:01 (WTG 01) 17:17 (WTG 01)	69	16:20 (WTG 01) 17:29 (WTG 01)	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	25	16:56 (WTG 01) 17:21 (WTG 01)	68	16:20 (WTG 01) 17:28 (WTG 01)	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	32	16:52 (WTG 01) 17:24 (WTG 01)	66	16:21 (WTG 01) 17:27 (WTG 01)	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	37	16:49 (WTG 01) 17:26 (WTG 01)	65	16:21 (WTG 01) 17:26 (WTG 01)	06:44 16:46	07:17 16:31
12	05:37 20:36	06:06 20:06	06:37 19:17	41	16:46 (WTG 01) 17:27 (WTG 01)	64	16:21 (WTG 01) 17:25 (WTG 01)	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	45	16:44 (WTG 01) 17:29 (WTG 01)	61	16:22 (WTG 01) 17:23 (WTG 01)	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	48	16:42 (WTG 01) 17:30 (WTG 01)	60	16:22 (WTG 01) 17:22 (WTG 01)	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	51	16:40 (WTG 01) 17:31 (WTG 01)	58	16:23 (WTG 01) 17:21 (WTG 01)	06:49 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	54	16:38 (WTG 01) 17:32 (WTG 01)	55	16:25 (WTG 01) 17:20 (WTG 01)	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	56	16:36 (WTG 01) 17:32 (WTG 01)	52	16:26 (WTG 01) 17:18 (WTG 01)	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	58	16:35 (WTG 01) 17:33 (WTG 01)	49	16:27 (WTG 01) 17:16 (WTG 01)	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	60	16:33 (WTG 01) 17:33 (WTG 01)	46	16:28 (WTG 01) 17:14 (WTG 01)	06:53 16:39	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	62	16:32 (WTG 01) 17:34 (WTG 01)	42	16:30 (WTG 01) 17:12 (WTG 01)	06:55 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	64	16:30 (WTG 01) 17:34 (WTG 01)	37	16:33 (WTG 01) 17:10 (WTG 01)	06:56 16:37	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	65	16:29 (WTG 01) 17:34 (WTG 01)	32	16:35 (WTG 01) 17:07 (WTG 01)	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	66	16:28 (WTG 01) 17:34 (WTG 01)	25	16:38 (WTG 01) 17:03 (WTG 01)	06:58 16:36	07:25 16:35
24	05:47 20:27	06:18 19:49	06:49 18:57	67	16:27 (WTG 01) 17:34 (WTG 01)	15	16:43 (WTG 01) 16:58 (WTG 01)	06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	68	16:26 (WTG 01) 17:34 (WTG 01)			07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	69	16:25 (WTG 01) 17:34 (WTG 01)			07:01 16:34	07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	70	16:24 (WTG 01) 17:34 (WTG 01)			07:03 16:34	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	71	16:23 (WTG 01) 17:34 (WTG 01)			07:04 16:34	07:27 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	72	16:22 (WTG 01) 17:34 (WTG 01)			07:05 16:33	07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	71	16:22 (WTG 01) 17:33 (WTG 01)			07:06 16:33	07:27 16:40
31	05:54 20:21	06:25 19:37			06:30 16:59				07:27 16:40
Ore potenziali eliofania	460	429	375		345		297	286	
Totale, caso peggiore			1268		1361				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 92 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (391)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:28 16:41	07:14 17:16	06:37 17:51	15:53 (WTG 01) 17:51	06:46 19:25	16:50 (WTG 01) 19:58	
2	07:28 16:42	07:13 17:17	06:36 17:52	59 61	15:52 (WTG 01) 16:53 (WTG 01)	54 52	17:44 (WTG 01) 17:44 (WTG 01)
3	07:28 16:43	07:12 17:19	06:34 17:53	63	15:51 (WTG 01) 16:54 (WTG 01)	48	16:53 (WTG 01) 17:41 (WTG 01)
4	07:28 16:44	07:11 17:20	06:33 17:54	65	15:50 (WTG 01) 16:55 (WTG 01)	45	16:54 (WTG 01) 17:39 (WTG 01)
5	07:28 16:45	07:10 17:21	06:31 17:55	67	15:49 (WTG 01) 16:56 (WTG 01)	41	16:57 (WTG 01) 17:38 (WTG 01)
6	07:28 16:46	07:09 17:22	06:29 17:56	69	15:47 (WTG 01) 16:56 (WTG 01)	37	16:58 (WTG 01) 17:35 (WTG 01)
7	07:28 16:47	07:07 17:24	06:28 17:58	70	15:46 (WTG 01) 16:57 (WTG 01)	31	17:01 (WTG 01) 17:32 (WTG 01)
8	07:28 16:48	07:06 17:25	06:26 17:59	71	15:45 (WTG 01) 16:57 (WTG 01)	25	17:04 (WTG 01) 17:29 (WTG 01)
9	07:27 16:49	07:05 17:26	06:25 18:00	72	15:44 (WTG 01) 16:57 (WTG 01)	16	17:08 (WTG 01) 17:24 (WTG 01)
10	07:27 16:50	07:04 17:27	06:23 18:01	73	15:43 (WTG 01) 16:58 (WTG 01)		05:48 20:07
11	07:27 16:51	07:03 17:29	06:21 18:02	74	15:42 (WTG 01) 16:58 (WTG 01)		05:47 20:08
12	07:27 16:52	07:01 17:30	06:20 18:03	75	15:41 (WTG 01) 16:58 (WTG 01)		05:46 20:09
13	07:26 16:53	07:00 17:31	06:18 18:04	74	15:40 (WTG 01) 16:58 (WTG 01)		05:45 20:10
14	07:26 16:54	06:59 17:32	06:16 18:06	75	15:39 (WTG 01) 16:58 (WTG 01)		05:44 20:11
15	07:26 16:55	06:58 17:34	06:15 18:07	75	15:38 (WTG 01) 16:58 (WTG 01)		05:43 20:12
16	07:25 16:56	06:56 17:35	06:13 18:08	75	15:37 (WTG 01) 16:58 (WTG 01)		05:42 20:13
17	07:25 16:57	06:55 17:36	06:11 18:09	74	15:36 (WTG 01) 16:57 (WTG 01)		05:41 20:14
18	07:24 16:58	06:53 17:37	06:10 18:10	75	15:35 (WTG 01) 16:57 (WTG 01)		05:40 20:15
19	07:24 17:00	06:52 17:39	06:08 18:11	74	15:34 (WTG 01) 16:57 (WTG 01)		05:39 20:16
20	07:23 17:01	06:51 17:40	06:06 18:12	73	15:33 (WTG 01) 16:56 (WTG 01)		05:38 20:17
21	07:23 17:02	06:49 17:41	06:04 18:13	73	15:32 (WTG 01) 16:56 (WTG 01)		05:37 20:18
22	07:22 17:04	06:48 17:42	06:03 18:14	72	15:31 (WTG 01) 16:55 (WTG 01)		05:37 20:19
23	07:21 17:05	06:46 17:43	06:01 18:16	71	15:30 (WTG 01) 16:54 (WTG 01)		05:36 20:20
24	07:21 17:06	06:45 17:44	05:59 18:17	70	15:29 (WTG 01) 16:54 (WTG 01)		05:35 20:21
25	07:20 17:07	06:43 17:46	05:58 18:18	69	15:28 (WTG 01) 16:53 (WTG 01)		05:34 20:22
26	07:19 17:08	06:42 17:47	05:56 18:19	67	15:27 (WTG 01) 16:52 (WTG 01)		05:34 20:23
27	07:18 17:10	06:40 17:48	05:54 18:20	65	15:26 (WTG 01) 16:51 (WTG 01)		05:33 20:24
28	07:17 17:11	06:39 17:49	05:53 18:21	64	15:25 (WTG 01) 16:50 (WTG 01)		05:32 20:25
29	07:17 17:12		06:51 19:22	61	16:48 (WTG 01) 17:49 (WTG 01)		05:32 20:25
30	07:16 17:13		06:49 19:23	60	16:48 (WTG 01) 17:48 (WTG 01)		05:31 20:26
31	07:15 17:15		06:48 19:24	57	16:49 (WTG 01) 17:46 (WTG 01)		05:31 20:27
Ore potenziali eliofania	296	297	369	399	349	449	454
Totale, caso peggiore		341	2143				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 92 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (391)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45		16:23 (WTG 01) 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	74	16:23 (WTG 01) 17:37 (WTG 01)	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41		16:23 (WTG 01) 17:36 (WTG 01)	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	16	17:06 (WTG 01) 17:01 (WTG 01)		16:22 (WTG 01) 17:35 (WTG 01)	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	25	17:26 (WTG 01) 17:29 (WTG 01)		16:22 (WTG 01) 17:34 (WTG 01)	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	31	16:55 (WTG 01) 17:31 (WTG 01)		16:23 (WTG 01) 17:33 (WTG 01)	07:12 16:31
7	05:34 20:38	06:01 20:12	06:32 19:26	36	16:52 (WTG 01) 17:33 (WTG 01)		16:23 (WTG 01) 17:32 (WTG 01)	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	41	16:49 (WTG 01) 17:34 (WTG 01)		16:24 (WTG 01) 17:32 (WTG 01)	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	45	16:47 (WTG 01) 17:35 (WTG 01)		16:24 (WTG 01) 17:31 (WTG 01)	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	48	16:45 (WTG 01) 17:37 (WTG 01)		16:25 (WTG 01) 17:29 (WTG 01)	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	52	16:43 (WTG 01) 17:37 (WTG 01)		16:25 (WTG 01) 17:28 (WTG 01)	07:17 16:31
12	05:37 20:36	06:06 20:06	06:37 19:17	54	16:41 (WTG 01) 17:38 (WTG 01)		16:26 (WTG 01) 17:26 (WTG 01)	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	57	16:40 (WTG 01) 17:39 (WTG 01)		16:27 (WTG 01) 17:25 (WTG 01)	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	59	16:38 (WTG 01) 17:39 (WTG 01)		16:28 (WTG 01) 17:23 (WTG 01)	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	61	16:37 (WTG 01) 17:40 (WTG 01)		16:29 (WTG 01) 17:21 (WTG 01)	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	63	16:35 (WTG 01) 17:40 (WTG 01)		16:31 (WTG 01) 17:20 (WTG 01)	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	65	16:34 (WTG 01) 17:41 (WTG 01)		16:33 (WTG 01) 17:17 (WTG 01)	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	67	16:33 (WTG 01) 17:41 (WTG 01)		16:35 (WTG 01) 17:15 (WTG 01)	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	68	16:31 (WTG 01) 17:41 (WTG 01)		16:37 (WTG 01) 17:12 (WTG 01)	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	70	16:30 (WTG 01) 17:41 (WTG 01)		16:40 (WTG 01) 17:08 (WTG 01)	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	71	16:29 (WTG 01) 17:41 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	72	16:28 (WTG 01) 17:41 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	73	16:27 (WTG 01) 17:41 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:25 16:35
24	05:47 20:27	06:18 19:49	06:49 18:57	74	16:27 (WTG 01) 17:41 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	74	16:26 (WTG 01) 17:40 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	74	16:25 (WTG 01) 17:40 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	75	16:25 (WTG 01) 17:40 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	75	16:24 (WTG 01) 17:39 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:27 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	75	16:24 (WTG 01) 17:39 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	75	16:23 (WTG 01) 17:38 (WTG 01)		16:45 (WTG 01) 17:04 (WTG 01)	07:27 16:40
31	05:54 20:21	06:25 19:37			06:30 16:59			07:27 16:40
Ore potenziali eliofania	460	429	375		345		297	286
Totale, caso peggiore			1671		1207			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 93 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (392)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:28 16:41	07:14 17:16	06:37 17:51	16:02 (WTG 01) 17:51	06:46 19:25	16:56 (WTG 01) 19:58	05:59 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	16:01 (WTG 01) 17:52	19:25 19:26	16:58 (WTG 01) 17:44 (WTG 01)	05:58 19:59
3	07:28 16:43	07:12 17:19	06:34 17:53	15:59 (WTG 01) 17:53	06:43 19:27	16:59 (WTG 01) 17:42 (WTG 01)	05:57 20:00
4	07:28 16:44	07:11 17:20	06:33 17:54	15:58 (WTG 01) 17:54	06:41 19:29	17:01 (WTG 01) 17:40 (WTG 01)	05:56 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	15:57 (WTG 01) 17:55	06:39 19:30	17:03 (WTG 01) 17:38 (WTG 01)	05:54 20:02
6	07:28 16:46	07:09 17:22	06:29 17:56	15:55 (WTG 01) 17:56	06:38 19:31	17:06 (WTG 01) 17:35 (WTG 01)	05:53 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58	15:55 (WTG 01) 17:58	06:36 19:32	17:08 (WTG 01) 17:31 (WTG 01)	05:52 20:04
8	07:28 16:48	07:06 17:25	06:26 17:59	15:54 (WTG 01) 17:59	06:34 19:33	17:14 (WTG 01) 17:26 (WTG 01)	05:51 20:05
9	07:27 16:49	07:05 17:26	06:25 18:00	15:52 (WTG 01) 16:57 (WTG 01)	06:33 19:34	05:50 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	15:52 (WTG 01) 16:58 (WTG 01)	06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	15:51 (WTG 01) 16:58 (WTG 01)	06:29 19:36	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	15:51 (WTG 01) 16:58 (WTG 01)	06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	15:51 (WTG 01) 16:59 (WTG 01)	06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	15:50 (WTG 01) 16:58 (WTG 01)	06:25 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	15:49 (WTG 01) 16:58 (WTG 01)	06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	15:50 (WTG 01) 16:59 (WTG 01)	06:21 19:42	05:42 20:13	05:27 20:37
17	07:25 16:57	06:55 17:36	06:11 18:09	15:49 (WTG 01) 16:58 (WTG 01)	06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:58	06:53 17:37	06:10 18:10	15:49 (WTG 01) 16:57 (WTG 01)	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	15:50 (WTG 01) 16:58 (WTG 01)	06:17 19:45	05:39 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	15:49 (WTG 01) 16:57 (WTG 01)	06:15 19:46	05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	15:49 (WTG 01) 16:56 (WTG 01)	06:14 19:47	05:37 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	15:49 (WTG 01) 16:55 (WTG 01)	06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 16:25 (WTG 01) 16:31 (WTG 01)	15:50 (WTG 01) 16:56 (WTG 01)	06:11 19:49	05:36 20:20	05:28 20:39
24	07:21 17:06	06:45 17:44	05:59 16:17 (WTG 01) 16:38 (WTG 01)	15:50 (WTG 01) 16:56 (WTG 01)	06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:45	05:58 16:13 (WTG 01) 16:42 (WTG 01)	15:50 (WTG 01) 16:55 (WTG 01)	06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:46	05:56 16:09 (WTG 01) 16:45 (WTG 01)	15:52 (WTG 01) 16:53 (WTG 01)	06:06 19:52	05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:47	05:54 16:07 (WTG 01) 16:47 (WTG 01)	15:52 (WTG 01) 16:52 (WTG 01)	06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:48	05:53 16:05 (WTG 01) 16:49 (WTG 01)	15:52 (WTG 01) 16:51 (WTG 01)	06:04 19:55	05:32 20:25	05:29 20:39
29	07:17 17:12	06:39 17:49	05:53 16:05 (WTG 01) 06:51	15:52 (WTG 01) 16:51 (WTG 01)	06:04 19:55	05:32 20:25	05:29 20:39
30	07:16 17:13	06:39 17:49	05:53 16:05 (WTG 01) 06:51	15:52 (WTG 01) 16:51 (WTG 01)	06:04 19:55	05:32 20:25	05:29 20:39
31	07:15 17:15	06:39 17:49	05:53 16:05 (WTG 01) 06:51	15:52 (WTG 01) 16:51 (WTG 01)	06:04 19:55	05:32 20:25	05:29 20:39
Ore potenziali eliofania	296	297	369	399	449	454	
Totale, caso peggiore		176	1933	276			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 93 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (392)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45		16:30 (WTG 01) 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	68	17:38 (WTG 01) 16:30 (WTG 01)	16:32 07:08
3	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41	67	17:37 (WTG 01) 16:30 (WTG 01)	16:32 07:09
4	05:32 20:38	05:58 20:16	06:29 19:31		07:00 18:40	66	17:36 (WTG 01) 16:30 (WTG 01)	16:32 07:10
5	05:33 20:38	05:59 20:15	06:30 19:29	12	07:01 18:38	65	17:35 (WTG 01) 16:30 (WTG 01)	16:32 07:11
6	05:33 20:38	06:00 20:14	06:31 19:27	22	07:02 18:36	64	17:34 (WTG 01) 16:30 (WTG 01)	16:31 07:12
7	05:34 20:38	06:01 20:12	06:32 19:26	29	07:03 18:35	63	17:33 (WTG 01) 16:31 (WTG 01)	16:31 07:13
8	05:34 20:37	06:02 20:11	06:33 19:24	34	07:04 18:33	61	17:32 (WTG 01) 16:32 (WTG 01)	16:31 07:14
9	05:35 20:37	06:03 20:10	06:34 19:22	38	07:05 18:31	59	17:31 (WTG 01) 16:33 (WTG 01)	16:31 07:15
10	05:36 20:36	06:04 20:09	06:35 19:21	42	07:06 18:30	57	17:30 (WTG 01) 16:33 (WTG 01)	16:31 07:16
11	05:37 20:36	06:05 20:07	06:36 19:19	46	07:07 18:28	55	17:28 (WTG 01) 16:34 (WTG 01)	16:31 07:17
12	05:37 20:35	06:06 20:06	06:37 19:17	49	07:09 18:26	53	17:27 (WTG 01) 16:35 (WTG 01)	16:31 07:17
13	05:38 20:35	06:07 20:05	06:38 19:16	51	07:10 18:25	50	17:25 (WTG 01) 16:36 (WTG 01)	16:31 07:18
14	05:39 20:34	06:08 20:03	06:39 19:14	54	07:11 18:23	47	17:23 (WTG 01) 16:38 (WTG 01)	16:31 07:19
15	05:40 20:34	06:09 20:02	06:40 19:12	56	07:12 18:22	42	17:20 (WTG 01) 16:40 (WTG 01)	16:32 07:20
16	05:40 20:33	06:10 20:00	06:41 19:10	58	07:13 18:20	38	17:18 (WTG 01) 16:43 (WTG 01)	16:32 07:20
17	05:41 20:33	06:11 19:59	06:42 19:09	60	07:14 18:18	33	17:16 (WTG 01) 16:46 (WTG 01)	16:32 07:21
18	05:42 20:32	06:12 19:58	06:43 19:07	61	07:15 18:17	26	17:12 (WTG 01) 16:50 (WTG 01)	16:32 07:22
19	05:43 20:31	06:13 19:56	06:44 19:05	63	07:16 18:15	17	17:07 (WTG 01) 16:40	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	64	07:18 18:14		16:39 16:38	16:33 07:23
21	05:45 20:30	06:15 19:53	06:46 19:02	65	07:19 18:12		16:38 16:37	16:34 07:24
22	05:45 20:29	06:16 19:52	06:47 19:00	66	07:20 18:11		16:37 16:37	16:34 07:24
23	05:46 20:28	06:17 19:50	06:48 18:58	67	07:21 18:09		16:37 16:36	16:34 07:25
24	05:47 20:27	06:18 19:49	06:49 18:57	67	07:22 18:08		16:36 16:36	16:35 07:25
25	05:48 20:26	06:19 19:47	06:51 18:55	68	07:23 18:07		16:36 16:35	16:35 07:25
26	05:49 20:25	06:20 19:45	06:52 18:53	69	07:24 18:05		16:36 16:34	16:35 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	69	07:26 18:04		16:36 16:34	16:37 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	69	07:27 18:03		16:36 16:34	16:37 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	69	07:28 18:01		16:36 16:33	16:38 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	69	07:29 18:00		16:36 16:33	16:39 16:40
31	05:54 20:21	06:25 19:37		68	07:30 17:59			16:39 16:40
Ore potenziali eliofania	460	429	375		345	931	297	286
Totale, caso peggiore			1485					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 94 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (404)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:27 16:41	07:14 17:16	16:12 (WTG 01) 16:26 (WTG 01)	06:37 17:51	16:01 (WTG 01) 16:38 (WTG 01)	06:46 19:25	05:59 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	16:09 (WTG 01) 16:30 (WTG 01)	06:36 17:52	16:03 (WTG 01) 16:37 (WTG 01)	06:44 19:26	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:18	16:07 (WTG 01) 16:32 (WTG 01)	06:34 17:53	16:04 (WTG 01) 16:34 (WTG 01)	06:43 19:27	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	16:05 (WTG 01) 16:34 (WTG 01)	06:33 17:54	16:07 (WTG 01) 16:33 (WTG 01)	06:41 19:29	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	16:04 (WTG 01) 16:36 (WTG 01)	06:31 17:55	16:09 (WTG 01) 16:29 (WTG 01)	06:39 19:30	05:54 20:02	05:28 20:31
6	07:28 16:46	07:09 17:22	16:02 (WTG 01) 16:37 (WTG 01)	06:29 17:56	16:13 (WTG 01) 16:25 (WTG 01)	06:38 19:31	05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	16:01 (WTG 01) 16:38 (WTG 01)	06:28 17:58		06:36 19:32	05:52 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	16:00 (WTG 01) 16:39 (WTG 01)	06:26 17:59		06:34 19:33	05:51 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	16:00 (WTG 01) 16:41 (WTG 01)	06:25 18:00		06:33 19:34	05:49 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	15:59 (WTG 01) 16:42 (WTG 01)	06:23 18:01		06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	15:58 (WTG 01) 16:42 (WTG 01)	06:21 18:02		06:29 19:36	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	15:57 (WTG 01) 16:43 (WTG 01)	06:20 18:03		06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	15:57 (WTG 01) 16:44 (WTG 01)	06:18 18:04		06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	15:56 (WTG 01) 16:43 (WTG 01)	06:16 18:06		06:25 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	15:56 (WTG 01) 16:44 (WTG 01)	06:15 18:07		06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	15:56 (WTG 01) 16:45 (WTG 01)	06:13 18:08		06:21 19:42	05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	15:56 (WTG 01) 16:44 (WTG 01)	06:11 18:09		06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	15:56 (WTG 01) 16:45 (WTG 01)	06:10 18:10		06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	15:56 (WTG 01) 16:44 (WTG 01)	06:08 18:11		06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	15:56 (WTG 01) 16:44 (WTG 01)	06:06 18:12		06:15 19:46	05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	15:57 (WTG 01) 16:45 (WTG 01)	06:04 18:13		06:14 19:47	05:37 20:18	05:27 20:38
22	07:22 17:03	06:48 17:42	15:56 (WTG 01) 16:44 (WTG 01)	06:03 18:14		06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	15:57 (WTG 01) 16:44 (WTG 01)	06:01 18:15		06:11 19:49	05:36 20:20	05:28 20:39
24	07:21 17:06	06:45 17:45	15:57 (WTG 01) 16:43 (WTG 01)	05:59 18:17		06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	15:58 (WTG 01) 16:43 (WTG 01)	05:58 18:18		06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	15:59 (WTG 01) 16:41 (WTG 01)	05:56 18:19		06:06 19:52	05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	16:00 (WTG 01) 16:41 (WTG 01)	05:54 18:20		06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	16:00 (WTG 01) 16:39 (WTG 01)	05:53 18:21		06:04 19:55	05:32 20:25	05:29 20:39
29	07:17 17:12			06:51 19:22		06:02 19:56	05:32 20:25	05:30 20:39
30	07:16 17:13			06:49 19:23		06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 17:15			06:48 19:24			05:31 20:27	
Ore potenziali eliofania	296	297		369		399	449	454
Totale, caso peggiore			1146	159				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 94 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (404)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57		15:28 (WTG 01) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		06:33 16:56	42	16:10 (WTG 01) 15:29 (WTG 01) 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		06:34 16:55	41	16:10 (WTG 01) 15:30 (WTG 01) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39		06:35 16:54	39	16:09 (WTG 01) 15:31 (WTG 01) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38		06:36 16:52	37	16:08 (WTG 01) 15:32 (WTG 01) 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36		06:38 16:51	34	16:06 (WTG 01) 15:34 (WTG 01) 16:31
7	05:34 20:38	06:01 20:12	06:32 19:26	07:03 18:34		06:39 16:50	32	16:06 (WTG 01) 15:35 (WTG 01) 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	16	16:47 (WTG 01) 17:03 (WTG 01)	29	16:04 (WTG 01) 15:37 (WTG 01) 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	23	16:43 (WTG 01) 17:06 (WTG 01)	25	16:02 (WTG 01) 15:40 (WTG 01) 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	28	16:40 (WTG 01) 17:08 (WTG 01)	20	16:00 (WTG 01) 15:43 (WTG 01) 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	31	16:38 (WTG 01) 17:09 (WTG 01)	14	15:57 (WTG 01) 16:47 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	35	16:36 (WTG 01) 17:11 (WTG 01)		07:17 16:45 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	37	16:34 (WTG 01) 17:11 (WTG 01)		07:18 16:44 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	40	16:32 (WTG 01) 17:12 (WTG 01)		07:19 16:43 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	42	16:31 (WTG 01) 17:13 (WTG 01)		16:49 16:42 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	43	16:31 (WTG 01) 17:14 (WTG 01)		06:50 16:41 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	44	16:30 (WTG 01) 17:14 (WTG 01)		06:51 16:40 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	45	16:29 (WTG 01) 17:14 (WTG 01)		06:52 16:40 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	46	16:28 (WTG 01) 17:14 (WTG 01)		06:53 16:39 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	47	16:27 (WTG 01) 17:14 (WTG 01)		16:39 16:55 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	48	16:27 (WTG 01) 17:15 (WTG 01)		16:38 16:56 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	48	16:27 (WTG 01) 17:15 (WTG 01)		16:37 16:57 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	49	16:26 (WTG 01) 17:15 (WTG 01)		16:37 16:58 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	49	16:26 (WTG 01) 17:14 (WTG 01)		16:36 16:59 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	49	16:26 (WTG 01) 15:25 (WTG 01)		16:36 16:59 16:35
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 17:05	48	16:26 (WTG 01) 16:14 (WTG 01)		16:36 16:59 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:25 17:04	48	16:26 (WTG 01) 16:14 (WTG 01)		16:37 16:59 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 17:02	47	16:26 (WTG 01) 15:26 (WTG 01)		16:37 16:59 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	46	16:26 (WTG 01) 16:12 (WTG 01)		16:37 16:59 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	07:28 17:00	45	16:26 (WTG 01) 15:27 (WTG 01)		16:37 16:59 16:39
31	05:54 20:20	06:25 19:37	06:57 18:45	07:29 16:59	43	16:26 (WTG 01) 16:11 (WTG 01)		16:37 16:59 16:40
Ore potenziali eliofania	460	429	375	345	996	297	313	286
Totale, caso peggiore								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 95 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (405)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo		Aprile		Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51		06:46 19:25		17:30 (WTG 01) 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52		06:44 19:26	47	18:17 (WTG 01) 19:58	05:30 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53		06:43 19:27	48	18:18 (WTG 01) 19:59	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54		06:41 19:29	47	17:30 (WTG 01) 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	45	18:15 (WTG 01) 20:02	05:28 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56		06:38 19:31	44	17:32 (WTG 01) 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	42	17:32 (WTG 01) 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59		06:34 19:33	40	17:33 (WTG 01) 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00		06:33 19:34	39	18:12 (WTG 01) 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01		06:31 19:35	36	17:34 (WTG 01) 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02		06:29 19:36	33	18:10 (WTG 01) 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03		06:28 19:37	30	17:37 (WTG 01) 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04		06:26 19:38	26	17:38 (WTG 01) 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06		06:25 19:39	21	18:04 (WTG 01) 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	16:50 (WTG 01)	06:23 19:40	14	17:58 (WTG 01) 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	17:07 (WTG 01)	06:21 19:42		05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	17:11 (WTG 01)	06:20 19:43		05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	16:44 (WTG 01)	06:18 19:44	28	17:12 (WTG 01) 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	17:12 (WTG 01)	06:17 19:45	28	16:41 (WTG 01) 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	17:14 (WTG 01)	06:15 19:46	33	17:14 (WTG 01) 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	16:38 (WTG 01)	06:14 19:47	36	16:40 (WTG 01) 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	17:17 (WTG 01)	06:12 19:48	39	16:36 (WTG 01) 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	17:17 (WTG 01)	06:11 19:49	41	16:35 (WTG 01) 20:20	05:28 20:38
24	07:21 17:06	06:45 17:44	05:59 18:17	16:34 (WTG 01)	06:09 19:50	43	17:19 (WTG 01) 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	16:33 (WTG 01)	06:08 19:51	45	16:33 (WTG 01) 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	17:19 (WTG 01)	06:06 19:52	46	17:19 (WTG 01) 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	16:32 (WTG 01)	06:05 19:53	47	16:32 (WTG 01) 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	16:31 (WTG 01)	06:04 19:55	48	16:31 (WTG 01) 20:25	05:29 20:39
29	07:17 17:12		06:51 19:22	17:19 (WTG 01)	06:02 19:56	48	17:19 (WTG 01) 20:26	05:30 20:39
30	07:16 17:13		06:49 19:23	17:31 (WTG 01)	06:01 19:57	49	17:31 (WTG 01) 20:27	05:30 20:39
31	07:15 17:15		06:48 19:24	18:20 (WTG 01)		49	18:20 (WTG 01) 20:27	05:31 20:39
Ore potenziali eliofania	296	297	369		399		449	454
Totale, caso peggiore			689		512			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 95 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (405)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	17:36 (WTG 01) 18:06 (WTG 01)	06:57 18:45	06:32 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	17:34 (WTG 01) 18:07 (WTG 01)	06:58 18:43	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	17:32 (WTG 01) 18:08 (WTG 01)	06:59 18:41	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	17:30 (WTG 01) 18:09 (WTG 01)	07:00 18:39	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	17:29 (WTG 01) 18:09 (WTG 01)	07:01 18:38	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27	17:28 (WTG 01) 18:10 (WTG 01)	07:02 18:36	06:38 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	17:26 (WTG 01) 18:10 (WTG 01)	07:03 18:34	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	17:25 (WTG 01) 18:11 (WTG 01)	07:04 18:33	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	17:24 (WTG 01) 18:11 (WTG 01)	07:05 18:31	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	17:24 (WTG 01) 18:11 (WTG 01)	07:06 18:30	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	17:23 (WTG 01) 18:11 (WTG 01)	07:07 18:28	06:44 16:46	07:17 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	17:22 (WTG 01) 18:10 (WTG 01)	07:09 18:26	06:45 16:45	07:17 16:31
13	05:38 20:34	06:07 20:05	06:38 19:16	17:22 (WTG 01) 18:10 (WTG 01)	07:10 18:25	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	17:21 (WTG 01) 18:10 (WTG 01)	07:11 18:23	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	17:21 (WTG 01) 18:09 (WTG 01)	07:12 18:22	06:49 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	17:21 (WTG 01) 18:09 (WTG 01)	07:13 18:20	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	17:20 (WTG 01) 18:08 (WTG 01)	07:14 18:18	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	17:20 (WTG 01) 18:07 (WTG 01)	07:15 18:17	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	17:20 (WTG 01) 18:06 (WTG 01)	07:16 18:15	06:53 16:39	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	17:21 (WTG 01) 18:05 (WTG 01)	07:17 18:14	06:54 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	17:21 (WTG 01) 18:04 (WTG 01)	07:19 18:12	06:56 16:37	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	17:21 (WTG 01) 18:03 (WTG 01)	07:20 18:11	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	17:22 (WTG 01) 18:01 (WTG 01)	07:21 18:09	06:58 16:36	07:25 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	17:23 (WTG 01) 18:00 (WTG 01)	07:22 18:08	06:59 16:36	07:25 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	17:24 (WTG 01) 17:58 (WTG 01)	06:23 17:07	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	17:25 (WTG 01) 17:56 (WTG 01)	06:24 17:05	07:01 16:34	07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	17:27 (WTG 01) 17:53 (WTG 01)	06:26 17:04	07:03 16:34	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	17:30 (WTG 01) 17:50 (WTG 01)	06:27 17:02	07:04 16:34	07:27 16:38
29	05:52 20:23	06:23 19:41	17:45 (WTG 01) 06:55	17:34 (WTG 01) 17:44 (WTG 01)	06:28 17:01	07:05 16:33	07:27 16:39
30	05:53 20:22	06:24 19:39	17:59 (WTG 01) 06:56	17:41 (WTG 01) 18:02 (WTG 01)	06:29 17:00	07:06 16:33	07:27 16:39
31	05:54 20:20	06:25 19:37	17:38 (WTG 01) 18:04 (WTG 01)		06:30 16:59		07:27 16:40
Ore potenziali eliofania	460	429	375	345	297	286	
Totale, caso peggiore		61	1160				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 96 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (406)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		09:02 (WTG 02)	07:14		09:19 (WTG 02)	06:37		06:46	05:59		05:30
	16:41	78	10:20 (WTG 02)	17:16	61	10:20 (WTG 02)	17:51		19:25	19:58		20:28
2	07:28		09:02 (WTG 02)	07:13		09:20 (WTG 02)	06:36		06:44	05:58		05:30
	16:42	79	10:21 (WTG 02)	17:17	59	10:19 (WTG 02)	17:52		19:26	19:59		20:28
3	07:28		09:02 (WTG 02)	07:12		09:21 (WTG 02)	06:34		06:43	05:57		05:29
	16:43	79	10:21 (WTG 02)	17:19	57	10:18 (WTG 02)	17:53		19:27	20:00		20:29
4	07:28		09:03 (WTG 02)	07:11		09:22 (WTG 02)	06:33		06:41	05:56		05:29
	16:44	79	10:22 (WTG 02)	17:20	55	10:17 (WTG 02)	17:54		19:29	20:01		20:30
5	07:28		09:03 (WTG 02)	07:10		09:24 (WTG 02)	06:31		06:39	05:54		05:28
	16:45	79	10:22 (WTG 02)	17:21	52	10:16 (WTG 02)	17:55		19:30	20:02		20:31
6	07:28		09:04 (WTG 02)	07:09		09:24 (WTG 02)	06:29		06:38	05:53		05:28
	16:46	79	10:23 (WTG 02)	17:22	49	10:13 (WTG 02)	17:56		19:31	20:03		20:31
7	07:28		09:05 (WTG 02)	07:07		09:26 (WTG 02)	06:28		06:36	05:52		05:28
	16:47	78	10:23 (WTG 02)	17:24	45	10:11 (WTG 02)	17:58		19:32	20:04		20:32
8	07:28		09:05 (WTG 02)	07:06		09:28 (WTG 02)	06:26		06:34	05:51		05:28
	16:48	79	10:24 (WTG 02)	17:25	41	10:09 (WTG 02)	17:59		19:33	20:05		20:33
9	07:27		09:05 (WTG 02)	07:05		09:31 (WTG 02)	06:25		06:33	05:50		05:27
	16:49	79	10:24 (WTG 02)	17:26	36	10:07 (WTG 02)	18:00		19:34	20:06		20:33
10	07:27		09:06 (WTG 02)	07:04		09:34 (WTG 02)	06:23		06:31	05:48		05:27
	16:50	78	10:24 (WTG 02)	17:27	30	10:04 (WTG 02)	18:01		19:35	20:07		20:34
11	07:27		09:06 (WTG 02)	07:03		09:37 (WTG 02)	06:21		06:29	05:47		05:27
	16:51	79	10:25 (WTG 02)	17:29	22	09:59 (WTG 02)	18:02		19:36	20:08		20:34
12	07:27		09:06 (WTG 02)	07:01		09:43 (WTG 02)	06:20		06:28	05:46		05:27
	16:52	78	10:24 (WTG 02)	17:30	10	09:53 (WTG 02)	18:03		19:37	20:09		20:35
13	07:26		09:07 (WTG 02)	07:00			06:18		06:26	05:45		05:27
	16:53	78	10:25 (WTG 02)	17:31			18:04		19:38	20:10		20:35
14	07:26		09:08 (WTG 02)	06:59			06:16		06:25	05:44		05:27
	16:54	78	10:26 (WTG 02)	17:32			18:06		19:39	20:11		20:36
15	07:26		09:08 (WTG 02)	06:58			06:15		06:23	05:43		05:27
	16:55	77	10:25 (WTG 02)	17:34			18:07		19:40	20:12		20:36
16	07:25		09:09 (WTG 02)	06:56			06:13		06:21	05:42		05:27
	16:56	77	10:26 (WTG 02)	17:35			18:08		19:42	20:13		20:37
17	07:25		09:09 (WTG 02)	06:55			06:11		06:20	05:41		05:27
	16:58	77	10:26 (WTG 02)	17:36			18:09		19:43	20:14		20:37
18	07:24		09:09 (WTG 02)	06:53			06:10		06:18	05:40		05:27
	16:59	76	10:25 (WTG 02)	17:37			18:10		19:44	20:15		20:37
19	07:24		09:10 (WTG 02)	06:52			06:08		06:17	05:39		05:27
	17:00	76	10:26 (WTG 02)	17:39			18:11		19:45	20:16		20:38
20	07:23		09:10 (WTG 02)	06:51			06:06		06:15	05:38		05:27
	17:01	76	10:26 (WTG 02)	17:40			18:12		19:46	20:17		20:38
21	07:23		09:11 (WTG 02)	06:49			06:04		06:14	05:37		05:27
	17:02	75	10:26 (WTG 02)	17:41			18:13		19:47	20:18		20:38
22	07:22		09:11 (WTG 02)	06:48			06:03		06:12	05:37		05:27
	17:04	75	10:26 (WTG 02)	17:42			18:14		19:48	20:19		20:38
23	07:21		09:12 (WTG 02)	06:46			06:01		06:11	05:36		05:28
	17:05	73	10:25 (WTG 02)	17:43			18:16		19:49	20:20		20:38
24	07:21		09:12 (WTG 02)	06:45			05:59		06:09	05:35		05:28
	17:06	73	10:25 (WTG 02)	17:45			18:17		19:50	20:21		20:39
25	07:20		09:13 (WTG 02)	06:43			05:58		06:08	05:34		05:28
	17:07	71	10:24 (WTG 02)	17:46			18:18		19:51	20:22		20:39
26	07:19		09:14 (WTG 02)	06:42			05:56		06:06	05:34		05:28
	17:08	71	10:25 (WTG 02)	17:47			18:19		19:52	20:23		20:39
27	07:18		09:15 (WTG 02)	06:40			05:54		06:05	05:33		05:29
	17:10	69	10:24 (WTG 02)	17:48			18:20		19:53	20:24		20:39
28	07:17		09:15 (WTG 02)	06:39			05:53		06:04	05:32		05:29
	17:11	69	10:24 (WTG 02)	17:49			18:21		19:55	20:24		20:39
29	07:17		09:16 (WTG 02)				06:51		06:02	05:32		05:30
	17:12	67	10:23 (WTG 02)				19:22		19:56	20:25		20:39
30	07:16		09:17 (WTG 02)				06:49		06:01	05:31		05:30
	17:13	65	10:22 (WTG 02)				19:23		19:57	20:26		20:39
31	07:15		09:18 (WTG 02)				06:48			05:31		
	17:15	63	10:21 (WTG 02)				19:24			20:27		
Ore potenziali eliofanìa	296			297			369		399	449		454
Totale, caso peggiore	2330			517								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 96 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (406)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57		07:07 16:32	08:48 (WTG 02) 10:07 (WTG 02)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43		06:33 16:56	31	09:00 (WTG 02) 09:37 (WTG 02)	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41		06:34 16:55	37	08:58 (WTG 02) 09:40 (WTG 02)	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40		06:35 16:54	42	08:56 (WTG 02) 09:41 (WTG 02)	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38		06:36 16:52	45	08:54 (WTG 02) 09:43 (WTG 02)	07:11 16:32
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36		06:38 16:51	49	08:54 (WTG 02) 09:46 (WTG 02)	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35		06:39 16:50	52	08:52 (WTG 02) 09:47 (WTG 02)	07:13 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33		06:40 16:49	55	08:51 (WTG 02) 09:48 (WTG 02)	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31		06:41 16:48	57	08:51 (WTG 02) 09:50 (WTG 02)	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30		06:42 16:47	59	08:50 (WTG 02) 09:51 (WTG 02)	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28		06:44 16:46	61	08:49 (WTG 02) 09:52 (WTG 02)	07:17 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26		06:45 16:45	63	08:49 (WTG 02) 09:54 (WTG 02)	07:17 16:31
13	05:38 20:34	06:07 20:03	06:38 19:14	07:10 18:23		06:46 16:44	65	08:48 (WTG 02) 09:55 (WTG 02)	07:18 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23		06:47 16:43	67	08:47 (WTG 02) 09:56 (WTG 02)	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22		06:49 16:42	69	08:47 (WTG 02) 09:56 (WTG 02)	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20		06:50 16:41	69	08:47 (WTG 02) 09:58 (WTG 02)	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18		06:51 16:40	71	08:47 (WTG 02) 09:58 (WTG 02)	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17		06:52 16:40	71	08:46 (WTG 02) 09:59 (WTG 02)	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15		06:53 16:39	73	08:47 (WTG 02) 10:00 (WTG 02)	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14		06:54 16:38	74	08:47 (WTG 02) 10:01 (WTG 02)	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12		06:56 16:37	74	08:46 (WTG 02) 10:01 (WTG 02)	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11		06:57 16:37	75	08:46 (WTG 02) 10:02 (WTG 02)	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10		06:58 16:36	76	08:46 (WTG 02) 10:02 (WTG 02)	07:25 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08		06:59 16:36	76	08:47 (WTG 02) 10:03 (WTG 02)	07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 17:07		07:00 16:35	77	08:47 (WTG 02) 10:04 (WTG 02)	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 17:05		07:01 16:34	77	08:47 (WTG 02) 10:04 (WTG 02)	07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:26 17:04		07:03 16:34	77	08:47 (WTG 02) 10:04 (WTG 02)	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:03		07:04 16:34	77	08:47 (WTG 02) 10:05 (WTG 02)	07:27 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01		07:05 16:33	78	08:48 (WTG 02) 10:06 (WTG 02)	07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 18:46	07:29 17:00	13	07:06 09:24 (WTG 02)	78	08:48 (WTG 02) 10:06 (WTG 02)	07:27 16:40
31	05:54 20:20	06:25 19:37		07:30 16:59	24	09:06 (WTG 02) 09:30 (WTG 02)			07:27 16:40
Ore potenziali eliofania	460	429	375	345		297			286
Totale, caso peggiore				37		1951			2437

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 97 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (393)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	09:09 (WTG 02)	07:14	09:24 (WTG 02)	06:37	06:46	05:59	05:30				
	16:41	82 10:31 (WTG 02)	17:16	70 10:34 (WTG 02)	17:51	19:25	19:58	20:28				
2	07:28	09:09 (WTG 02)	07:13	09:25 (WTG 02)	06:36	06:44	05:58	05:30				
	16:42	83 10:32 (WTG 02)	17:17	68 10:33 (WTG 02)	17:52	19:26	19:59	20:28				
3	07:28	09:10 (WTG 02)	07:12	09:26 (WTG 02)	06:34	06:43	05:57	05:29				
	16:43	82 10:32 (WTG 02)	17:19	66 10:32 (WTG 02)	17:53	19:27	20:00	20:29				
4	07:28	09:10 (WTG 02)	07:11	09:27 (WTG 02)	06:33	06:41	05:56	05:29				
	16:44	83 10:33 (WTG 02)	17:20	64 10:31 (WTG 02)	17:54	19:29	20:01	20:30				
5	07:28	09:11 (WTG 02)	07:10	09:28 (WTG 02)	06:31	06:39	05:54	05:28				
	16:45	82 10:33 (WTG 02)	17:21	62 10:30 (WTG 02)	17:55	19:30	20:02	20:31				
6	07:28	09:11 (WTG 02)	07:09	09:28 (WTG 02)	06:29	06:38	05:53	05:28				
	16:46	83 10:34 (WTG 02)	17:22	60 10:28 (WTG 02)	17:56	19:31	20:03	20:31				
7	07:28	09:12 (WTG 02)	07:07	09:30 (WTG 02)	06:28	06:36	05:52	05:28				
	16:47	82 10:34 (WTG 02)	17:24	56 10:26 (WTG 02)	17:58	19:32	20:04	20:32				
8	07:28	09:12 (WTG 02)	07:06	09:32 (WTG 02)	06:26	06:34	05:51	05:28				
	16:48	83 10:35 (WTG 02)	17:25	53 10:25 (WTG 02)	17:59	19:33	20:05	20:33				
9	07:27	09:12 (WTG 02)	07:05	09:33 (WTG 02)	06:25	06:33	05:50	05:27				
	16:49	83 10:35 (WTG 02)	17:26	50 10:23 (WTG 02)	18:00	19:34	20:06	20:33				
10	07:27	09:13 (WTG 02)	07:04	09:35 (WTG 02)	06:23	06:31	05:48	05:27				
	16:50	82 10:35 (WTG 02)	17:27	46 10:21 (WTG 02)	18:01	19:35	20:07	20:34				
11	07:27	09:13 (WTG 02)	07:03	09:37 (WTG 02)	06:21	06:29	05:47	05:27				
	16:51	83 10:36 (WTG 02)	17:29	41 10:18 (WTG 02)	18:02	19:36	20:08	20:34				
12	07:27	09:13 (WTG 02)	07:01	09:39 (WTG 02)	06:20	06:28	05:46	05:27				
	16:52	83 10:36 (WTG 02)	17:30	36 10:15 (WTG 02)	18:03	19:37	20:09	20:35				
13	07:26	09:14 (WTG 02)	07:00	09:42 (WTG 02)	06:18	06:26	05:45	05:27				
	16:53	82 10:36 (WTG 02)	17:31	30 10:12 (WTG 02)	18:04	19:38	20:10	20:35				
14	07:26	09:15 (WTG 02)	06:59	09:46 (WTG 02)	06:16	06:25	05:44	05:27				
	16:54	82 10:37 (WTG 02)	17:32	20 10:06 (WTG 02)	18:06	19:39	20:11	20:36				
15	07:26	09:15 (WTG 02)	06:58		06:15	06:23	05:43	05:27				
	16:55	82 10:37 (WTG 02)	17:34		18:07	19:40	20:12	20:36				
16	07:25	09:15 (WTG 02)	06:56		06:13	06:21	05:42	05:27				
	16:56	83 10:38 (WTG 02)	17:35		18:08	19:42	20:13	20:37				
17	07:25	09:15 (WTG 02)	06:55		06:11	06:20	05:41	05:27				
	16:58	82 10:37 (WTG 02)	17:36		18:09	19:43	20:14	20:37				
18	07:24	09:15 (WTG 02)	06:53		06:10	06:18	05:40	05:27				
	16:59	82 10:37 (WTG 02)	17:37		18:10	19:44	20:15	20:37				
19	07:24	09:16 (WTG 02)	06:52		06:08	06:17	05:39	05:27				
	17:00	82 10:38 (WTG 02)	17:39		18:11	19:45	20:16	20:38				
20	07:23	09:17 (WTG 02)	06:51		06:06	06:15	05:38	05:27				
	17:01	80 10:37 (WTG 02)	17:40		18:12	19:46	20:17	20:38				
21	07:23	09:18 (WTG 02)	06:49		06:04	06:14	05:37	05:27				
	17:02	80 10:38 (WTG 02)	17:41		18:13	19:47	20:18	20:38				
22	07:22	09:18 (WTG 02)	06:48		06:03	06:12	05:37	05:27				
	17:04	80 10:38 (WTG 02)	17:42		18:14	19:48	20:19	20:38				
23	07:21	09:18 (WTG 02)	06:46		06:01	06:11	05:36	05:28				
	17:05	79 10:37 (WTG 02)	17:43		18:16	19:49	20:20	20:38				
24	07:21	09:18 (WTG 02)	06:45		05:59	06:09	05:35	05:28				
	17:06	79 10:37 (WTG 02)	17:45		18:17	19:50	20:21	20:39				
25	07:20	09:19 (WTG 02)	06:43		05:58	06:08	05:34	05:28				
	17:07	78 10:37 (WTG 02)	17:46		18:18	19:51	20:22	20:39				
26	07:19	09:20 (WTG 02)	06:42		05:56	06:06	05:34	05:28				
	17:08	77 10:37 (WTG 02)	17:47		18:19	19:52	20:23	20:39				
27	07:18	09:21 (WTG 02)	06:40		05:54	06:05	05:33	05:29				
	17:10	76 10:37 (WTG 02)	17:48		18:20	19:53	20:24	20:39				
28	07:17	09:21 (WTG 02)	06:39		05:53	06:04	05:32	05:29				
	17:11	75 10:36 (WTG 02)	17:49		18:21	19:55	20:24	20:39				
29	07:17	09:22 (WTG 02)			06:51	06:02	05:32	05:30				
	17:12	74 10:36 (WTG 02)			19:22	19:56	20:25	20:39				
30	07:16	09:23 (WTG 02)			06:49	06:01	05:31	05:30				
	17:13	72 10:35 (WTG 02)			19:23	19:57	20:26	20:39				
31	07:15	09:23 (WTG 02)			06:48		05:31					
	17:15	71 10:34 (WTG 02)			19:24		20:27					
Ore potenziali eliofanìa	296		297		369		399		449		454	
Totale, caso peggiore	2487		722									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 97 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (393)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	09:04 (WTG 02) 16:32 83
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	46 16:56	09:03 (WTG 02) 16:32 82
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	50 16:55	09:01 (WTG 02) 16:32 83
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:40	54 16:54	09:00 (WTG 02) 16:32 83
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	56 16:52	09:00 (WTG 02) 16:32 83
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	60 16:51	09:00 (WTG 02) 16:31 83
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:35	62 16:50	09:00 (WTG 02) 16:31 82
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	64 16:49	09:00 (WTG 02) 16:31 83
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	66 16:48	09:00 (WTG 02) 16:31 82
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	68 16:47	09:00 (WTG 02) 16:31 83
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	70 16:46	09:00 (WTG 02) 16:31 82
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	71 16:45	09:00 (WTG 02) 16:31 82
13	05:38 20:35	06:07 20:05	06:38 19:16	07:10 18:25	73 16:44	09:00 (WTG 02) 16:31 83
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	74 16:43	09:00 (WTG 02) 16:32 82
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	75 16:42	09:00 (WTG 02) 16:32 82
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	76 16:41	09:00 (WTG 02) 16:32 82
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	77 16:40	09:00 (WTG 02) 16:32 82
18	05:42 20:32	06:12 19:58	06:43 19:07	07:15 18:17	78 16:40	09:00 (WTG 02) 16:33 82
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	79 16:39	09:00 (WTG 02) 16:33 82
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 18:14	80 16:38	09:00 (WTG 02) 16:34 82
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	80 16:37	09:00 (WTG 02) 16:34 82
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	80 16:37	09:00 (WTG 02) 16:34 82
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:10	80 16:36	09:00 (WTG 02) 16:35 82
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	81 16:36	09:00 (WTG 02) 16:36 82
25	05:48 20:26	06:19 19:47	06:51 18:55	07:23 18:07	81 16:35	09:00 (WTG 02) 16:36 82
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 18:06	82 16:35	09:00 (WTG 02) 16:36 82
27	05:50 20:25	06:21 19:44	06:53 18:51	07:25 18:05	82 16:34	09:00 (WTG 02) 16:37 82
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 18:04	82 16:34	09:00 (WTG 02) 16:37 82
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 18:03	82 16:33	09:00 (WTG 02) 16:38 82
30	05:53 20:22	06:24 19:39	06:56 18:46	07:28 18:02	82 16:33	09:00 (WTG 02) 16:39 82
31	05:54 20:20	06:25 19:37	06:57 18:45	07:29 18:01	83 16:33	09:00 (WTG 02) 16:40 82
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore				139	2174	2550

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 98 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (394)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo		Aprile		Maggio	Giugno	
1	07:27 16:41	07:14 17:16	06:37 17:51		06:46 19:25		07:29 (WTG 02) 08:24 (WTG 02)	06:00 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52		06:44 19:26	55	07:30 (WTG 02) 08:23 (WTG 02)	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53		06:43 19:27	53	07:30 (WTG 02) 08:22 (WTG 02)	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54		06:41 19:29	52	07:30 (WTG 02) 08:20 (WTG 02)	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	50	07:32 (WTG 02) 08:20 (WTG 02)	05:54 20:02	05:29 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56		06:38 19:31	48	07:32 (WTG 02) 08:18 (WTG 02)	05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	46	07:33 (WTG 02) 08:17 (WTG 02)	05:52 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59	15	06:34 19:33	44	07:34 (WTG 02) 08:15 (WTG 02)	05:51 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00	24	06:33 19:34	41	07:35 (WTG 02) 08:13 (WTG 02)	05:50 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	30	06:31 19:35	38	07:37 (WTG 02) 08:11 (WTG 02)	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	35	06:29 19:36	34	07:38 (WTG 02) 08:08 (WTG 02)	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	39	06:28 19:37	30	07:40 (WTG 02) 08:05 (WTG 02)	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	42	06:26 19:38	25	07:44 (WTG 02) 08:02 (WTG 02)	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	44	06:25 19:39	18	07:51 (WTG 02) 07:53 (WTG 02)	05:44 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	47	06:23 19:40	2		05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	50	06:21 19:42			05:42 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	51	06:20 19:43			05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	53	06:18 19:44			05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	54	06:17 19:45			05:39 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	55	06:15 19:46			05:38 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:05 18:13	56	06:14 19:47			05:38 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	57	06:12 19:48			05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:16	57	06:11 19:49			05:36 20:20	05:28 20:39
24	07:21 17:06	06:45 17:45	05:59 18:17	58	06:09 19:50			05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	58	06:08 19:51			05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	58	06:06 19:52			05:34 20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	58	06:05 19:53			05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	58	06:04 19:55			05:32 20:24	05:29 20:39
29	07:17 17:12		06:51 19:22	57	06:02 19:56			05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	56	06:01 19:57			05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24	56	06:00 19:58			05:31 20:27	
Ore potenziali eliofania	296	297	369	1168	399	536		449	454
Totale, caso peggiore									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 98 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (394)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	05:31 20:39	05:55 20:19	06:26 19:36	07:37 (WTG 02) 08:07 (WTG 02)	06:57 18:45	07:23 (WTG 02) 08:03 (WTG 02)	06:32 16:32	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	07:35 (WTG 02) 08:09 (WTG 02)	06:58 18:43	07:24 (WTG 02) 08:01 (WTG 02)	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	07:33 (WTG 02) 08:11 (WTG 02)	06:59 18:41	07:26 (WTG 02) 07:58 (WTG 02)	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:31 (WTG 02) 08:12 (WTG 02)	07:00 18:40	07:28 (WTG 02) 07:55 (WTG 02)	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:29 (WTG 02) 08:13 (WTG 02)	07:01 18:38	07:31 (WTG 02) 07:51 (WTG 02)	06:36 16:52	07:11 16:32
6	05:33 20:38	06:00 20:14	06:31 19:27	07:28 (WTG 02) 08:14 (WTG 02)	07:02 18:36	07:38 (WTG 02) 07:44 (WTG 02)	06:38 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:27 (WTG 02) 08:15 (WTG 02)	07:03 18:35		06:39 16:50	07:13 16:31
8	05:35 20:37	06:02 20:11	06:33 19:24	07:25 (WTG 02) 08:15 (WTG 02)	07:04 18:33		06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:24 (WTG 02) 08:16 (WTG 02)	07:05 18:31		06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:23 (WTG 02) 08:16 (WTG 02)	07:06 18:30		06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:22 (WTG 02) 08:17 (WTG 02)	07:07 18:28		06:44 16:46	07:17 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:22 (WTG 02) 08:17 (WTG 02)	07:09 18:26		06:45 16:45	07:17 16:31
13	05:38 20:34	06:07 20:05	06:38 19:16	07:21 (WTG 02) 08:17 (WTG 02)	07:10 18:25		06:46 16:44	07:18 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:20 (WTG 02) 08:17 (WTG 02)	07:11 18:23		06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:20 (WTG 02) 08:17 (WTG 02)	07:12 18:22		06:49 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:19 (WTG 02) 08:17 (WTG 02)	07:13 18:20		06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:19 (WTG 02) 08:17 (WTG 02)	07:14 18:18		06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:18 (WTG 02) 08:16 (WTG 02)	07:15 18:17		06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:18 (WTG 02) 08:16 (WTG 02)	07:16 18:15		06:53 16:39	07:22 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:18 (WTG 02) 08:16 (WTG 02)	07:18 18:14		06:55 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:18 (WTG 02) 08:15 (WTG 02)	07:19 18:12		06:56 16:37	07:24 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:18 (WTG 02) 08:14 (WTG 02)	07:20 18:11		06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:18 (WTG 02) 08:14 (WTG 02)	07:21 18:10		06:58 16:36	07:25 16:35
24	05:47 20:27	06:18 19:49	06:49 18:57	07:18 (WTG 02) 08:13 (WTG 02)	07:22 18:08		06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	07:18 (WTG 02) 08:12 (WTG 02)	06:23 17:07		07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:19 (WTG 02) 08:11 (WTG 02)	06:24 17:05		07:01 16:35	07:26 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:19 (WTG 02) 08:09 (WTG 02)	06:26 17:04		07:03 16:34	07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:20 (WTG 02) 08:08 (WTG 02)	06:27 17:03		07:04 16:34	07:27 16:38
29	05:52 20:23	06:23 19:41	06:55 07:50 (WTG 02)	07:21 (WTG 02) 08:06 (WTG 02)	06:28 17:01		07:05 16:33	07:27 16:39
30	05:53 20:22	06:24 19:39	06:56 07:44 (WTG 02)	07:22 (WTG 02) 08:05 (WTG 02)	06:29 17:00		07:06 16:33	07:27 16:40
31	05:54 20:21	06:25 19:37	06:57 07:40 (WTG 02)		06:30 16:59			07:27 16:40
Ore potenziali eliofania	460	429	375	345	297	286		
Totale, caso peggiore		48	1522	162				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 99 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (395)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	07:36 (WTG 02) 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	07:37 (WTG 02) 19:59	05:30 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	07:37 (WTG 02) 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	07:37 (WTG 02) 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	07:39 (WTG 02) 20:02	05:29 20:31
6	07:28 16:46	07:09 17:22	06:29 17:56	06:38 19:31	07:39 (WTG 02) 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	07:40 (WTG 02) 20:04	05:28 20:32
8	07:28 16:48	07:06 17:25	06:26 17:59	06:34 19:33	07:41 (WTG 02) 20:05	05:28 20:33
9	07:27 16:49	07:05 17:26	06:25 18:00	06:33 19:34	07:42 (WTG 02) 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	07:44 (WTG 02) 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	07:46 (WTG 02) 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	07:47 (WTG 02) 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	07:51 (WTG 02) 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	07:57 (WTG 02) 20:11	05:27 20:36
15	07:26 16:55	06:58 17:34	06:15 18:07	06:23 19:40	08:03 (WTG 02) 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:42	08:03 (WTG 02) 20:13	05:27 20:37
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	08:03 (WTG 02) 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	08:03 (WTG 02) 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	08:03 (WTG 02) 20:16	05:27 20:38
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	08:03 (WTG 02) 20:17	05:27 20:38
21	07:23 17:02	06:49 17:41	06:04 18:13	06:14 19:47	08:03 (WTG 02) 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	08:03 (WTG 02) 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:16	06:11 19:49	08:03 (WTG 02) 20:20	05:28 20:38
24	07:21 17:06	06:45 17:45	05:59 18:17	06:09 19:50	08:03 (WTG 02) 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	08:03 (WTG 02) 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	08:03 (WTG 02) 20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	08:03 (WTG 02) 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:55	08:03 (WTG 02) 20:24	05:29 20:39
29	07:17 17:12		06:51 19:22	06:02 19:56	08:03 (WTG 02) 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	08:03 (WTG 02) 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24	07:36 (WTG 02) 08:34 (WTG 02)	08:03 (WTG 02) 20:27	05:31 20:39
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore			1369	563		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 99 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (395)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	07:44 (WTG 02) 08:16 (WTG 02)	06:57 18:45	07:27 (WTG 02) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	07:42 (WTG 02) 08:18 (WTG 02)	18:45 18:43	48 08:15 (WTG 02) 16:57
3	05:32 20:38	05:57 20:17	06:28 19:32	07:40 (WTG 02) 08:19 (WTG 02)	06:59 18:41	46 08:14 (WTG 02) 16:56
4	05:32 20:38	05:58 20:16	06:29 19:31	07:38 (WTG 02) 08:21 (WTG 02)	07:00 18:40	40 08:10 (WTG 02) 16:54
5	05:33 20:38	05:59 20:15	06:30 19:29	07:37 (WTG 02) 08:22 (WTG 02)	07:01 18:38	35 08:07 (WTG 02) 16:52
6	05:33 20:38	06:00 20:14	06:31 19:27	07:35 (WTG 02) 08:23 (WTG 02)	07:02 18:36	30 08:04 (WTG 02) 16:51
7	05:34 20:37	06:01 20:12	06:32 19:26	07:34 (WTG 02) 08:24 (WTG 02)	07:03 18:35	24 08:01 (WTG 02) 16:50
8	05:35 20:37	06:02 20:11	06:33 19:24	07:32 (WTG 02) 08:24 (WTG 02)	07:04 18:33	14 07:56 (WTG 02) 16:49
9	05:35 20:37	06:03 20:10	06:34 19:22	07:31 (WTG 02) 08:25 (WTG 02)	07:05 18:31	16:48 16:31
10	05:36 20:36	06:04 20:09	06:35 19:21	07:30 (WTG 02) 08:26 (WTG 02)	07:06 18:30	16:47 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:29 (WTG 02) 08:26 (WTG 02)	07:07 18:28	16:46 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:28 (WTG 02) 08:26 (WTG 02)	07:09 18:26	16:45 16:31
13	05:38 20:35	06:07 20:05	06:38 19:16	07:28 (WTG 02) 08:27 (WTG 02)	07:10 18:25	16:44 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:27 (WTG 02) 08:27 (WTG 02)	07:11 18:23	16:43 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:26 (WTG 02) 08:27 (WTG 02)	07:12 18:22	16:42 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:26 (WTG 02) 08:27 (WTG 02)	07:13 18:20	16:41 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:25 (WTG 02) 08:27 (WTG 02)	07:14 18:18	16:40 16:32
18	05:42 20:32	06:12 19:58	06:43 19:07	07:25 (WTG 02) 08:26 (WTG 02)	07:15 18:17	16:40 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:24 (WTG 02) 08:26 (WTG 02)	07:16 18:15	16:39 16:33
20	05:44 20:31	06:14 19:55	06:45 19:03	07:24 (WTG 02) 08:26 (WTG 02)	07:18 18:14	16:38 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:24 (WTG 02) 08:25 (WTG 02)	07:19 18:12	16:37 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:24 (WTG 02) 08:25 (WTG 02)	07:20 18:11	16:37 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:24 (WTG 02) 08:24 (WTG 02)	07:21 18:10	16:36 16:36
24	05:47 20:27	06:18 19:49	06:49 18:57	07:24 (WTG 02) 08:24 (WTG 02)	07:22 18:08	16:36 16:36
25	05:48 20:26	06:19 19:47	06:51 18:55	07:24 (WTG 02) 08:23 (WTG 02)	06:23 17:07	16:35 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	07:24 (WTG 02) 08:22 (WTG 02)	06:24 17:05	16:35 16:37
27	05:50 20:25	06:21 19:44	06:53 18:51	07:24 (WTG 02) 08:21 (WTG 02)	06:26 17:04	16:35 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:25 (WTG 02) 08:20 (WTG 02)	06:27 17:03	16:34 16:38
29	05:52 20:23	06:23 19:41	06:55 08:04 (WTG 02)	07:25 (WTG 02) 08:18 (WTG 02)	06:28 17:01	16:33 16:39
30	05:53 20:22	06:24 19:39	06:56 08:04 (WTG 02)	07:26 (WTG 02) 08:17 (WTG 02)	06:29 17:00	16:33 16:40
31	05:54 20:20	06:25 19:37	06:57 08:13 (WTG 02)		06:30 16:59	16:33 16:40
Ore potenziali eliofania	460	429	375	345	280	286
Totale, caso peggiore		52	1633			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 100 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (396)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	15:12 (WTG 02)	06:37	06:46	05:59	05:30
2	07:28 16:42	07:13 17:17	15:12 (WTG 02)	06:36	06:44	05:58	29 19:35 (WTG 01)
3	07:28 16:43	07:12 17:18	15:12 (WTG 02)	06:34	06:42	05:57	28 19:34 (WTG 01)
4	07:28 16:44	07:11 17:20	15:12 (WTG 02)	06:33	06:41	05:56	27 19:34 (WTG 01)
5	07:28 16:45	07:10 17:21	15:12 (WTG 02)	06:31	06:39	05:54	26 19:34 (WTG 01)
6	07:28 16:46	07:08 17:22	15:11 (WTG 02)	06:29	06:37	05:53	26 19:34 (WTG 01)
7	07:28 16:47	07:07 17:24	15:11 (WTG 02)	06:28	06:36	05:52	25 19:34 (WTG 01)
8	07:27 16:48	07:06 17:25	15:12 (WTG 02)	06:26	06:34	05:51	24 19:34 (WTG 01)
9	07:27 16:49	07:05 17:26	15:12 (WTG 02)	06:24	06:33	05:49	19:14 (WTG 01) 24 19:33 (WTG 01)
10	07:27 16:50	07:04 17:27	15:13 (WTG 02)	06:23	06:31	05:48	19:11 (WTG 01) 23 19:33 (WTG 01)
11	07:27 16:51	07:03 17:29	15:12 (WTG 02)	06:21	06:29	05:47	19:09 (WTG 01) 22 19:33 (WTG 01)
12	07:27 16:52	07:01 17:30	15:13 (WTG 02)	06:20	06:28	05:46	19:08 (WTG 01) 22 19:33 (WTG 01)
13	07:26 16:53	07:00 17:31	15:14 (WTG 02)	06:18	06:26	05:45	19:07 (WTG 01) 21 19:33 (WTG 01)
14	07:26 16:54	06:59 17:32	15:14 (WTG 02)	06:16	06:25	05:44	19:06 (WTG 01) 21 19:33 (WTG 01)
15	07:26 16:55	06:58 17:34	15:15 (WTG 02)	06:15	06:23	05:43	19:06 (WTG 01) 20 19:33 (WTG 01)
16	07:25 16:56	06:56 17:35	15:16 (WTG 02)	06:13	06:21	05:42	19:05 (WTG 01) 20 19:33 (WTG 01)
17	07:25 16:58	06:55 17:36	15:16 (WTG 02)	06:11	06:20	05:41	19:05 (WTG 01) 20 19:33 (WTG 01)
18	07:24 16:59	15:23 (WTG 02) 06:53 15:39 (WTG 02) 17:37	15:17 (WTG 02)	06:10	06:18	05:40	19:05 (WTG 01) 20 19:33 (WTG 01)
19	07:24 17:00	15:22 (WTG 02) 06:52 15:42 (WTG 02) 17:39	15:18 (WTG 02)	06:08	06:17	05:39	19:04 (WTG 01) 20 19:33 (WTG 01)
20	07:23 17:01	15:20 (WTG 02) 06:51 15:44 (WTG 02) 17:40	15:18 (WTG 02)	06:06	06:15	05:38	19:04 (WTG 01) 19 19:34 (WTG 01)
21	07:23 17:02	15:18 (WTG 02) 06:49 15:45 (WTG 02) 17:41	15:23 (WTG 02)	06:04	06:14	05:37	19:04 (WTG 01) 19 19:34 (WTG 01)
22	07:22 17:03	15:18 (WTG 02) 06:48 15:48 (WTG 02) 17:42	15:24 (WTG 02)	06:03	06:12	05:37	19:04 (WTG 01) 19 19:34 (WTG 01)
23	07:21 17:05	15:17 (WTG 02) 06:46 15:49 (WTG 02) 17:43	15:27 (WTG 02)	06:01	06:11	05:36	19:04 (WTG 01) 19 19:34 (WTG 01)
24	07:21 17:06	15:16 (WTG 02) 06:45 15:50 (WTG 02) 17:45	15:30 (WTG 02)	05:59	06:09	05:35	19:04 (WTG 01) 19 19:34 (WTG 01)
25	07:20 17:07	15:15 (WTG 02) 06:43 15:51 (WTG 02) 17:46	15:44 (WTG 02)	05:58	06:08	05:34	19:04 (WTG 01) 19 19:34 (WTG 01)
26	07:19 17:08	15:15 (WTG 02) 06:42 15:53 (WTG 02) 17:47	15:54 (WTG 02)	05:56	06:06	05:34	19:05 (WTG 01) 19 19:34 (WTG 01)
27	07:18 17:10	15:14 (WTG 02) 06:40 15:54 (WTG 02) 17:48	15:53 (WTG 02)	05:54	06:05	05:33	19:05 (WTG 01) 19 19:34 (WTG 01)
28	07:17 17:11	15:14 (WTG 02) 06:39 15:55 (WTG 02) 17:49	15:54 (WTG 02)	05:53	06:04	05:32	19:05 (WTG 01) 19 19:34 (WTG 01)
29	07:16 17:12	15:13 (WTG 02) 06:37 15:56 (WTG 02)	15:55 (WTG 02)	05:52	06:03	05:32	19:05 (WTG 01) 19 19:34 (WTG 01)
30	07:16 17:13	15:13 (WTG 02) 06:36 15:57 (WTG 02)	15:56 (WTG 02)	05:51	06:02	05:31	19:06 (WTG 01) 19 19:34 (WTG 01)
31	07:15 17:15	15:12 (WTG 02) 06:34 15:57 (WTG 02)	15:57 (WTG 02)	05:50	06:01	05:31	19:06 (WTG 01) 19 19:34 (WTG 01)
Ore potenziali eliofanìa	296	297	369	399	449	607	454
Totale, caso peggiore	480	996					662

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 100 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (396)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre						
1	05:30	19:15 (WTG 01)	05:55	19:19 (WTG 01)	06:26	06:57	06:32	14:41 (WTG 02)	07:07			
	20:39	22	19:37 (WTG 01)	20:19	20	19:39 (WTG 01)	19:36	18:45	16:57	49	15:30 (WTG 02)	16:32
2	05:31	19:15 (WTG 01)	05:56	19:21 (WTG 01)	06:27	06:58	06:33	14:42 (WTG 02)	07:08			
	20:39	23	19:38 (WTG 01)	20:18	17	19:38 (WTG 01)	19:34	18:43	16:56	48	15:30 (WTG 02)	16:32
3	05:32	19:15 (WTG 01)	05:57	19:23 (WTG 01)	06:28	06:59	06:34	14:41 (WTG 02)	07:09			
	20:38	23	19:38 (WTG 01)	20:17	13	19:36 (WTG 01)	19:32	18:41	16:55	49	15:30 (WTG 02)	16:32
4	05:32	19:15 (WTG 01)	05:58	19:26 (WTG 01)	06:29	07:00	06:35	14:41 (WTG 02)	07:10			
	20:38	24	19:39 (WTG 01)	20:16	6	19:32 (WTG 01)	19:31	18:39	16:54	49	15:30 (WTG 02)	16:32
5	05:33	19:14 (WTG 01)	05:59			06:30	07:01		06:36		14:41 (WTG 02)	07:11
	20:38	25	19:39 (WTG 01)	20:15		19:29	18:38		06:36	49	15:30 (WTG 02)	16:31
6	05:33	19:15 (WTG 01)	06:00			06:31	07:02		06:38		14:42 (WTG 02)	07:12
	20:38	25	19:40 (WTG 01)	20:14		19:27	18:36		16:51	48	15:30 (WTG 02)	16:31
7	05:34	19:15 (WTG 01)	06:01			06:32	07:03		06:39		14:42 (WTG 02)	07:13
	20:37	26	19:41 (WTG 01)	20:12		19:26	18:34		16:50	48	15:30 (WTG 02)	16:31
8	05:34	19:14 (WTG 01)	06:02			06:33	07:04		06:40		14:42 (WTG 02)	07:14
	20:37	27	19:41 (WTG 01)	20:11		19:24	18:33		16:49	47	15:29 (WTG 02)	16:31
9	05:35	19:14 (WTG 01)	06:03			06:34	07:05		06:41		14:43 (WTG 02)	07:15
	20:37	27	19:41 (WTG 01)	20:10		19:22	18:31		16:48	46	15:29 (WTG 02)	16:31
10	05:36	19:15 (WTG 01)	06:04			06:35	07:06		06:42		14:43 (WTG 02)	07:16
	20:36	27	19:42 (WTG 01)	20:09		19:21	18:30		16:47	46	15:29 (WTG 02)	16:31
11	05:37	19:14 (WTG 01)	06:05			06:36	07:07		06:44		14:43 (WTG 02)	07:16
	20:36	28	19:42 (WTG 01)	20:07		19:19	18:28		16:46	45	15:28 (WTG 02)	16:31
12	05:37	19:14 (WTG 01)	06:06			06:37	07:09		06:45		14:45 (WTG 02)	07:17
	20:35	28	19:42 (WTG 01)	20:06		19:17	18:26		16:45	43	15:28 (WTG 02)	16:31
13	05:38	19:14 (WTG 01)	06:07			06:38	07:10		06:46		14:45 (WTG 02)	07:18
	20:35	29	19:43 (WTG 01)	20:05		19:15	18:25		16:44	43	15:28 (WTG 02)	16:31
14	05:39	19:13 (WTG 01)	06:08			06:39	07:11		06:47		14:46 (WTG 02)	07:19
	20:34	30	19:43 (WTG 01)	20:03		19:14	18:23		16:43	41	15:27 (WTG 02)	16:32
15	05:40	19:14 (WTG 01)	06:09			06:40	07:12		06:48		14:46 (WTG 02)	07:20
	20:34	29	19:43 (WTG 01)	20:02		19:12	18:22		16:42	40	15:26 (WTG 02)	16:32
16	05:40	19:14 (WTG 01)	06:10			06:41	07:13		06:50		14:48 (WTG 02)	07:20
	20:33	30	19:44 (WTG 01)	20:00		19:10	18:20		16:41	38	15:26 (WTG 02)	16:32
17	05:41	19:14 (WTG 01)	06:11			06:42	07:14	16:07 (WTG 02)	06:51		14:49 (WTG 02)	07:21
	20:33	30	19:44 (WTG 01)	19:59		19:09	18:18	5	16:12 (WTG 02)	36	15:25 (WTG 02)	16:32
18	05:42	19:14 (WTG 01)	06:12			06:43	07:15		06:52		14:50 (WTG 02)	07:22
	20:32	30	19:44 (WTG 01)	19:57		19:07	18:17	17	16:17 (WTG 02)	34	15:24 (WTG 02)	16:33
19	05:43	19:13 (WTG 01)	06:13			06:44	07:16		06:53		14:51 (WTG 02)	07:22
	20:31	31	19:44 (WTG 01)	19:56		19:05	18:15	23	16:20 (WTG 02)	32	15:23 (WTG 02)	16:33
20	05:44	19:14 (WTG 01)	06:14			06:45	07:17		06:54		14:53 (WTG 02)	07:23
	20:30	30	19:44 (WTG 01)	19:55		19:03	18:14	28	16:22 (WTG 02)	30	15:23 (WTG 02)	16:33
21	05:45	19:14 (WTG 01)	06:15			06:46	07:19		06:56		14:54 (WTG 02)	07:24
	20:30	30	19:44 (WTG 01)	19:53		19:02	18:12	31	16:24 (WTG 02)	27	15:21 (WTG 02)	16:34
22	05:45	19:14 (WTG 01)	06:16			06:47	07:20		06:57		14:56 (WTG 02)	07:24
	20:29	30	19:44 (WTG 01)	19:52		19:00	18:11	35	16:25 (WTG 02)	24	15:20 (WTG 02)	16:34
23	05:46	19:14 (WTG 01)	06:17			06:48	07:21		06:58		14:58 (WTG 02)	07:25
	20:28	30	19:44 (WTG 01)	19:50		18:58	18:09	37	16:26 (WTG 02)	20	15:18 (WTG 02)	16:35
24	05:47	19:15 (WTG 01)	06:18			06:49	07:22		06:59		15:01 (WTG 02)	07:25
	20:27	29	19:44 (WTG 01)	19:48		18:57	18:08	40	16:27 (WTG 02)	16	15:17 (WTG 02)	16:35
25	05:48	19:15 (WTG 01)	06:19			06:50	06:23		07:00		15:04 (WTG 02)	07:25
	20:26	29	19:44 (WTG 01)	19:47		18:55	17:07	41	15:27 (WTG 02)	10	15:14 (WTG 02)	16:36
26	05:49	19:16 (WTG 01)	06:20			06:52	06:24		07:01			07:26
	20:25	28	19:44 (WTG 01)	19:45		18:53	17:05	43	15:28 (WTG 02)	16:34		16:37
27	05:50	19:15 (WTG 01)	06:21			06:53	06:26		07:03			07:26
	20:25	28	19:43 (WTG 01)	19:44		18:51	17:04	45	15:29 (WTG 02)	16:34		16:37
28	05:51	19:16 (WTG 01)	06:22			06:54	06:27		07:04			07:26
	20:24	26	19:42 (WTG 01)	19:42		18:50	17:02	46	15:29 (WTG 02)	16:34		16:38
29	05:52	19:16 (WTG 01)	06:23			06:55	06:28		07:05			07:27
	20:23	26	19:42 (WTG 01)	19:41		18:48	17:01	47	15:29 (WTG 02)	16:33		16:39
30	05:53	19:17 (WTG 01)	06:24			06:56	06:29		07:06			07:27
	20:22	24	19:41 (WTG 01)	19:39		18:46	17:00	47	15:30 (WTG 02)	16:33		16:39
31	05:54	19:18 (WTG 01)	06:25				06:30					07:27
	20:20	22	19:40 (WTG 01)	19:37			16:59	48	15:30 (WTG 02)			16:40
Ore potenziali eliofanìa	460		429			375	345		297	958		286
Totale, caso peggiore	846		56			533						

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 101 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (407)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		07:14	15:08 (WTG 02)	06:37	06:46	05:59		05:30		19:07 (WTG 01)
	16:41		17:16	46 15:54 (WTG 02)	17:51	19:25	19:58		20:28	12	19:19 (WTG 01)
2	07:28		07:13	15:09 (WTG 02)	06:36	06:44	05:58		05:30		19:08 (WTG 01)
	16:42		17:17	46 15:55 (WTG 02)	17:52	19:26	19:59	6	19:15 (WTG 01)	9	19:17 (WTG 01)
3	07:28		07:12	15:09 (WTG 02)	06:34	06:42	05:57		05:29		19:11 (WTG 01)
	16:43		17:18	46 15:55 (WTG 02)	17:53	19:27	20:00	13	19:18 (WTG 01)	4	19:15 (WTG 01)
4	07:28		07:11	15:09 (WTG 02)	06:33	06:41	05:56		05:29		
	16:44		17:20	46 15:55 (WTG 02)	17:54	19:29	20:01	17	19:20 (WTG 01)		20:30
5	07:28		07:10	15:10 (WTG 02)	06:31	06:39	05:54		05:28		
	16:45		17:21	45 15:55 (WTG 02)	17:55	19:30	20:02	20	19:21 (WTG 01)		20:31
6	07:28		07:08	15:09 (WTG 02)	06:29	06:37	05:53		05:28		
	16:46		17:22	45 15:54 (WTG 02)	17:56	19:31	20:03	23	19:23 (WTG 01)		20:31
7	07:28		07:07	15:10 (WTG 02)	06:28	06:36	05:52		05:28		
	16:47		17:24	44 15:54 (WTG 02)	17:58	19:32	20:04	25	19:24 (WTG 01)		20:32
8	07:27		07:06	15:11 (WTG 02)	06:26	06:34	05:51		05:28		
	16:48		17:25	43 15:54 (WTG 02)	17:59	19:33	20:05	25	19:23 (WTG 01)		20:33
9	07:27		07:05	15:12 (WTG 02)	06:24	06:33	05:49		05:27		
	16:49		17:26	42 15:54 (WTG 02)	18:00	19:34	20:06	27	19:24 (WTG 01)		20:33
10	07:27		07:04	15:13 (WTG 02)	06:23	06:31	05:48		05:27		
	16:50	9	15:29 (WTG 02)	17:27	41 15:54 (WTG 02)	18:01	19:35	28	18:57 (WTG 01)		20:34
11	07:27		07:03	15:13 (WTG 02)	06:21	06:29	05:47		05:27		
	16:51	15	15:33 (WTG 02)	17:29	40 15:53 (WTG 02)	18:02	19:36	29	19:25 (WTG 01)		20:34
12	07:27		07:01	15:14 (WTG 02)	06:20	06:28	05:46		05:27		
	16:52	18	15:34 (WTG 02)	17:30	38 15:52 (WTG 02)	18:03	19:37	29	19:25 (WTG 01)		20:35
13	07:26		07:00	15:15 (WTG 02)	06:18	06:26	05:45		05:27		
	16:53	21	15:36 (WTG 02)	17:31	36 15:52 (WTG 02)	18:04	19:38	29	19:25 (WTG 01)		20:35
14	07:26		06:59	15:16 (WTG 02)	06:16	06:25	05:44		05:27		
	16:54	24	15:39 (WTG 02)	17:32	34 15:50 (WTG 02)	18:06	19:39	29	19:25 (WTG 01)		20:36
15	07:26		06:58	15:18 (WTG 02)	06:15	06:23	05:43		05:27		
	16:55	27	15:40 (WTG 02)	17:34	31 15:49 (WTG 02)	18:07	19:40	29	19:25 (WTG 01)		20:36
16	07:25		06:56	15:20 (WTG 02)	06:13	06:21	05:42		05:27		
	16:56	29	15:42 (WTG 02)	17:35	28 15:48 (WTG 02)	18:08	19:41	29	19:25 (WTG 01)		20:37
17	07:25		06:55	15:22 (WTG 02)	06:11	06:20	05:41		05:27		
	16:58	30	15:42 (WTG 02)	17:36	23 15:45 (WTG 02)	18:09	19:43	29	19:26 (WTG 01)		20:37
18	07:24		06:53	15:25 (WTG 02)	06:10	06:18	05:40		05:27		
	16:59	32	15:43 (WTG 02)	17:37	18 15:43 (WTG 02)	18:10	19:44	29	19:26 (WTG 01)		20:37
19	07:24		06:52	15:30 (WTG 02)	06:08	06:17	05:39		05:27		
	17:00	34	15:45 (WTG 02)	17:39	7 15:37 (WTG 02)	18:11	19:45	29	19:26 (WTG 01)		20:38
20	07:23		06:51	15:10 (WTG 02)	06:06	06:15	05:38		05:27		
	17:01	36	15:46 (WTG 02)	17:40		18:12	19:46	28	19:25 (WTG 01)		20:38
21	07:23		06:49	15:10 (WTG 02)	06:04	06:14	05:37		05:27		
	17:02	38	15:48 (WTG 02)	17:41		18:13	19:47	28	19:25 (WTG 01)		20:38
22	07:22		06:48	15:10 (WTG 02)	06:03	06:12	05:37		05:27		
	17:03	38	15:48 (WTG 02)	17:42		18:14	19:48	27	19:25 (WTG 01)		20:38
23	07:21		06:46	15:09 (WTG 02)	06:01	06:11	05:36		05:28		
	17:05	40	15:49 (WTG 02)	17:43		18:15	19:49	25	19:24 (WTG 01)		20:38
24	07:21		06:45	15:09 (WTG 02)	06:00	06:09	05:35		05:28		
	17:06	41	15:50 (WTG 02)	17:45		18:17	19:50	25	19:24 (WTG 01)		20:39
25	07:20		06:43	15:08 (WTG 02)	06:00	06:08	05:34		05:28		
	17:07	42	15:50 (WTG 02)	17:46		18:18	19:51	24	19:23 (WTG 01)		20:39
26	07:19		06:42	15:09 (WTG 02)	06:00	06:06	05:34		05:28		
	17:08	43	15:52 (WTG 02)	17:47		18:19	19:52	22	19:23 (WTG 01)		20:39
27	07:18		06:40	15:09 (WTG 02)	06:00	06:05	05:33		05:29		
	17:10	43	15:52 (WTG 02)	17:48		18:20	19:53	21	19:22 (WTG 01)		20:39
28	07:17		06:39	15:08 (WTG 02)	06:00	06:04	05:32		05:29		
	17:11	45	15:53 (WTG 02)	17:49		18:21	19:54	20	19:22 (WTG 01)		20:39
29	07:16		06:38	15:08 (WTG 02)	06:00	06:05	05:32		05:30		
	17:12	45	15:53 (WTG 02)			19:22	19:56	18	19:21 (WTG 01)		20:39
30	07:16		06:37	15:08 (WTG 02)	06:00	06:01	05:31		05:30		
	17:13	46	15:54 (WTG 02)			19:23	19:57	17	19:21 (WTG 01)		20:39
31	07:15		06:36	15:08 (WTG 02)	06:00	06:01	05:31		05:30		
	17:15	46	15:54 (WTG 02)			19:24	20:27	14	19:19 (WTG 01)		
Ore potenziali eliofanìa	296		297		369		399		449		454
Totale, caso peggiore	742		699		399		714		454		25

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 101 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (407)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:30	05:55	19:07 (WTG 01)	06:26	06:57	06:32	14:41 (WTG 02)	07:07	15:00 (WTG 02)		
1	20:39	20:19	19:36 (WTG 01)	19:36	18:45	16:57	15:23 (WTG 02)	16:32	15:15 (WTG 02)	15	
2	05:31	05:56	19:07 (WTG 01)	06:27	06:58	06:33	14:41 (WTG 02)	07:08	15:03 (WTG 02)		
2	20:39	20:18	19:35 (WTG 01)	19:34	18:43	16:56	15:24 (WTG 02)	16:32	15:13 (WTG 02)	10	
3	05:32	05:57	19:07 (WTG 01)	06:28	06:59	06:34	14:41 (WTG 02)	07:09			
3	20:38	20:17	19:35 (WTG 01)	19:32	18:41	16:55	15:24 (WTG 02)	16:32			
4	05:32	05:58	19:08 (WTG 01)	06:29	07:00	06:35	14:40 (WTG 02)	07:10			
4	20:38	20:16	19:34 (WTG 01)	19:31	18:39	16:54	15:24 (WTG 02)	16:32			
5	05:33	05:59	19:09 (WTG 01)	06:30	07:01	06:36	14:39 (WTG 02)	07:11			
5	20:38	20:15	19:34 (WTG 01)	19:29	18:38	16:52	15:24 (WTG 02)	16:31			
6	05:33	06:00	19:09 (WTG 01)	06:31	07:02	06:38	14:40 (WTG 02)	07:12			
6	20:38	20:14	19:33 (WTG 01)	19:27	18:36	16:51	15:25 (WTG 02)	16:31			
7	05:34	06:01	19:10 (WTG 01)	06:32	07:03	06:39	14:39 (WTG 02)	07:13			
7	20:37	20:12	19:32 (WTG 01)	19:26	18:34	16:50	15:25 (WTG 02)	16:31			
8	05:34	06:02	19:11 (WTG 01)	06:33	07:04	06:40	14:39 (WTG 02)	07:14			
8	20:37	20:11	19:31 (WTG 01)	19:24	18:33	16:49	15:25 (WTG 02)	16:31			
9	05:35	06:03	19:13 (WTG 01)	06:34	07:05	06:41	14:40 (WTG 02)	07:15			
9	20:37	20:10	19:29 (WTG 01)	19:22	18:31	16:48	15:26 (WTG 02)	16:31			
10	05:36	19:17 (WTG 01)	06:04	19:15 (WTG 01)	06:35	07:06	16:42	14:39 (WTG 02)	07:16		
10	20:36	19:24 (WTG 01)	20:09	19:26 (WTG 01)	19:21	18:30	16:47	15:25 (WTG 02)	16:31		
11	05:37	19:15 (WTG 01)	06:05	19:19	18:28	06:44	14:39 (WTG 02)	07:16			
11	20:36	19:25 (WTG 01)	20:07	19:19	18:28	16:46	15:25 (WTG 02)	16:31			
12	05:37	19:14 (WTG 01)	06:06	19:19	18:28	06:45	14:40 (WTG 02)	07:17			
12	20:35	19:27 (WTG 01)	20:06	19:17	18:26	16:45	15:26 (WTG 02)	16:31			
13	05:38	19:13 (WTG 01)	06:07	19:17	18:26	06:46	14:40 (WTG 02)	07:18			
13	20:35	19:29 (WTG 01)	20:05	19:15	18:25	16:44	15:25 (WTG 02)	16:31			
14	05:39	19:12 (WTG 01)	06:08	19:15	18:25	06:47	14:40 (WTG 02)	07:19			
14	20:34	19:29 (WTG 01)	20:03	19:14	18:23	16:43	15:25 (WTG 02)	16:32			
15	05:40	19:11 (WTG 01)	06:09	19:14	18:23	06:48	14:41 (WTG 02)	07:20			
15	20:34	19:30 (WTG 01)	20:02	19:12	18:22	16:42	15:24 (WTG 02)	16:32			
16	05:40	19:11 (WTG 01)	06:10	19:11	18:22	06:50	14:42 (WTG 02)	07:20			
16	20:33	19:31 (WTG 01)	20:00	19:10	18:20	16:41	15:25 (WTG 02)	16:32			
17	05:41	19:10 (WTG 01)	06:11	19:10	18:20	06:51	14:42 (WTG 02)	07:21			
17	20:33	19:32 (WTG 01)	19:59	19:09	18:18	16:40	15:24 (WTG 02)	16:32			
18	05:42	19:10 (WTG 01)	06:12	19:09	18:18	06:52	14:43 (WTG 02)	07:22			
18	20:32	19:33 (WTG 01)	19:57	19:07	18:17	16:40	15:24 (WTG 02)	16:33			
19	05:43	19:09 (WTG 01)	06:13	19:07	18:17	06:53	14:43 (WTG 02)	07:22			
19	20:31	19:33 (WTG 01)	19:56	19:05	18:15	16:39	15:23 (WTG 02)	16:33			
20	05:44	19:08 (WTG 01)	06:14	19:05	18:15	06:54	14:45 (WTG 02)	07:23			
20	20:30	19:34 (WTG 01)	19:55	19:03	18:14	16:38	15:23 (WTG 02)	16:33			
21	05:45	19:08 (WTG 01)	06:15	19:02	18:14	06:56	14:45 (WTG 02)	07:24			
21	20:30	19:34 (WTG 01)	19:53	19:02	18:12	16:37	15:23 (WTG 02)	16:34			
22	05:45	19:08 (WTG 01)	06:16	19:01	18:12	06:57	14:46 (WTG 02)	07:24			
22	20:29	19:35 (WTG 01)	19:52	19:00	18:11	16:37	15:22 (WTG 02)	16:34			
23	05:46	19:08 (WTG 01)	06:17	18:59	18:11	06:58	14:47 (WTG 02)	07:25			
23	20:28	19:35 (WTG 01)	19:50	18:58	18:09	16:36	15:21 (WTG 02)	16:35			
24	05:47	19:08 (WTG 01)	06:18	18:57	18:08	06:59	14:49 (WTG 02)	07:25			
24	20:27	19:36 (WTG 01)	19:48	18:57	18:08	16:36	15:21 (WTG 02)	16:35			
25	05:48	19:07 (WTG 01)	06:19	18:56	18:08	07:00	14:50 (WTG 02)	07:25			
25	20:26	19:36 (WTG 01)	19:47	18:55	17:07	16:35	15:21 (WTG 02)	16:36			
26	05:49	19:07 (WTG 01)	06:20	18:54	17:07	07:01	14:51 (WTG 02)	07:26			
26	20:25	19:37 (WTG 01)	19:45	18:53	17:05	16:34	15:20 (WTG 02)	16:37			
27	05:50	19:06 (WTG 01)	06:21	18:52	17:05	07:03	14:52 (WTG 02)	07:26			
27	20:25	19:36 (WTG 01)	19:44	18:51	17:04	16:34	15:19 (WTG 02)	16:37			
28	05:51	19:06 (WTG 01)	06:22	18:50	17:04	07:04	14:54 (WTG 02)	07:26			
28	20:24	19:36 (WTG 01)	19:42	18:50	17:02	16:34	15:18 (WTG 02)	16:38			
29	05:52	19:06 (WTG 01)	06:23	18:49	17:02	07:05	14:56 (WTG 02)	07:27			
29	20:23	19:36 (WTG 01)	19:41	18:48	17:01	16:33	15:18 (WTG 02)	16:39			
30	05:53	19:06 (WTG 01)	06:24	18:47	17:01	07:06	14:58 (WTG 02)	07:27			
30	20:22	19:36 (WTG 01)	19:39	18:46	17:00	16:33	15:16 (WTG 02)	16:39			
31	05:54	19:07 (WTG 01)	06:25	18:46	17:00	07:06	14:58 (WTG 02)	07:27			
31	20:20	19:36 (WTG 01)	19:37	18:46	17:00	16:33	15:16 (WTG 02)	16:39			
Ore potenziali eliofanìa	460										
Totale, caso peggiore	513	429	229	375	345	297	1166	286	25		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 102 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (408)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	15:13 (WTG 02) 15:57 (WTG 02)	06:37 17:51	06:46 19:25	05:59 19:58
2	07:28 16:42	07:13 17:17	15:13 (WTG 02) 15:58 (WTG 02)	06:36 17:52	06:44 19:26	19:05 (WTG 01) 19:59
3	07:28 16:43	07:12 17:18	15:14 (WTG 02) 15:58 (WTG 02)	06:34 17:53	06:42 19:27	19:02 (WTG 01) 20:00
4	07:28 16:44	07:11 17:20	15:14 (WTG 02) 15:58 (WTG 02)	06:33 17:54	06:41 19:29	19:00 (WTG 01) 20:01
5	07:28 16:45	07:10 17:21	15:14 (WTG 02) 15:59 (WTG 02)	06:31 17:55	06:39 19:30	18:59 (WTG 01) 20:02
6	07:28 16:46	07:08 17:22	15:13 (WTG 02) 15:58 (WTG 02)	06:29 17:56	06:37 19:31	18:58 (WTG 01) 20:03
7	07:28 16:47	07:07 17:24	15:14 (WTG 02) 15:58 (WTG 02)	06:28 17:58	06:36 19:32	18:58 (WTG 01) 20:04
8	07:27 16:48	07:06 17:25	15:15 (WTG 02) 15:58 (WTG 02)	06:26 17:59	06:34 19:33	18:56 (WTG 01) 20:05
9	07:27 16:49	07:05 17:26	15:15 (WTG 02) 15:58 (WTG 02)	06:24 18:00	06:33 19:34	18:56 (WTG 01) 20:06
10	07:27 16:50	07:04 17:27	15:16 (WTG 02) 15:58 (WTG 02)	06:23 18:01	06:31 19:35	18:56 (WTG 01) 20:07
11	07:27 16:51	07:03 17:29	15:16 (WTG 02) 15:57 (WTG 02)	06:21 18:02	06:29 19:36	18:55 (WTG 01) 20:08
12	07:27 16:52	07:01 17:30	15:17 (WTG 02) 15:57 (WTG 02)	06:20 18:03	06:28 19:37	18:55 (WTG 01) 20:09
13	07:26 16:53	07:00 17:31	15:18 (WTG 02) 15:56 (WTG 02)	06:18 18:04	06:26 19:38	18:55 (WTG 01) 20:10
14	07:26 16:54	15:28 (WTG 02) 17:32	15:19 (WTG 02) 15:55 (WTG 02)	06:16 18:06	06:25 19:39	18:55 (WTG 01) 20:11
15	07:26 16:55	15:24 (WTG 02) 17:34	15:20 (WTG 02) 15:54 (WTG 02)	06:15 18:07	06:23 19:40	18:55 (WTG 01) 20:12
16	07:25 16:56	15:22 (WTG 02) 17:35	15:22 (WTG 02) 15:53 (WTG 02)	06:13 18:08	06:21 19:41	18:55 (WTG 01) 20:13
17	07:25 16:58	15:21 (WTG 02) 17:36	15:23 (WTG 02) 15:51 (WTG 02)	06:11 18:09	06:20 19:43	18:56 (WTG 01) 20:14
18	07:24 16:59	15:19 (WTG 02) 17:37	15:26 (WTG 02) 15:50 (WTG 02)	06:10 18:10	06:18 19:44	18:56 (WTG 01) 20:15
19	07:24 17:00	15:19 (WTG 02) 17:39	15:28 (WTG 02) 15:47 (WTG 02)	06:08 18:11	06:17 19:45	18:57 (WTG 01) 20:16
20	07:23 17:01	15:17 (WTG 02) 17:40	15:32 (WTG 02) 15:43 (WTG 02)	06:06 18:12	06:15 19:46	18:57 (WTG 01) 20:17
21	07:23 17:02	15:16 (WTG 02) 17:41	06:04 18:13	06:14 19:47	05:37 20:18	18:57 (WTG 01) 20:18
22	07:22 17:03	15:16 (WTG 02) 17:42	06:03 18:14	06:12 19:48	05:37 20:19	18:58 (WTG 01) 20:19
23	07:21 17:05	15:16 (WTG 02) 17:43	06:01 18:15	06:11 19:49	05:36 20:20	18:59 (WTG 01) 20:20
24	07:21 17:06	15:15 (WTG 02) 17:45	05:59 18:17	06:09 19:50	05:35 20:21	18:59 (WTG 01) 20:21
25	07:20 17:07	15:14 (WTG 02) 17:46	05:58 18:18	06:08 19:51	05:34 20:22	19:00 (WTG 01) 20:22
26	07:19 17:08	15:15 (WTG 02) 17:47	05:56 18:19	06:06 19:52	05:34 20:23	19:01 (WTG 01) 20:23
27	07:18 17:10	15:14 (WTG 02) 17:48	05:54 18:20	06:05 19:53	05:33 20:24	19:02 (WTG 01) 20:24
28	07:17 17:11	15:14 (WTG 02) 17:49	05:53 18:21	06:04 19:54	05:32 20:24	19:03 (WTG 01) 20:24
29	07:16 17:12	15:14 (WTG 02) 17:50	06:51 19:22	06:02 19:56	05:32 20:25	19:04 (WTG 01) 20:25
30	07:16 17:13	15:13 (WTG 02) 17:51	06:49 19:23	06:01 19:57	05:31 20:26	19:06 (WTG 01) 20:26
31	07:15 17:15	15:13 (WTG 02) 17:52	06:48 19:24	05:31 20:27	05:31 20:27	19:08 (WTG 01) 19:14 (WTG 01)
Ore potenziali eliofanìa	296	297	369	399	449	454
Totale, caso peggiore	558	741			684	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 102 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (408)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	19:06 (WTG 01) 19:35 (WTG 01)	06:26 19:36	06:57 18:45	06:32 14:45 (WTG 02) 07:07
2	05:31 20:39	05:56 20:18	19:06 (WTG 01) 19:34 (WTG 01)	06:27 19:34	06:58 18:43	06:33 14:45 (WTG 02) 07:08
3	05:32 20:38	05:57 20:17	19:06 (WTG 01) 19:34 (WTG 01)	06:28 19:32	06:59 18:41	06:34 14:44 (WTG 02) 07:09
4	05:32 20:38	05:58 20:16	19:07 (WTG 01) 19:34 (WTG 01)	06:29 19:31	07:00 18:39	06:35 14:44 (WTG 02) 07:10
5	05:33 20:38	05:59 20:15	19:07 (WTG 01) 19:33 (WTG 01)	06:30 19:29	07:01 18:38	06:36 14:43 (WTG 02) 07:11
6	05:33 20:38	06:00 20:14	19:08 (WTG 01) 19:32 (WTG 01)	06:31 19:27	07:02 18:36	06:38 14:44 (WTG 02) 07:12
7	05:34 20:37	06:01 20:12	19:08 (WTG 01) 19:31 (WTG 01)	06:32 19:26	07:03 18:34	06:39 14:44 (WTG 02) 07:13
8	05:34 20:37	06:02 20:11	19:09 (WTG 01) 19:30 (WTG 01)	06:33 19:24	07:04 18:33	06:40 14:43 (WTG 02) 07:14
9	05:35 20:37	06:03 20:10	19:11 (WTG 01) 19:29 (WTG 01)	06:34 19:22	07:05 18:31	06:41 14:44 (WTG 02) 07:15
10	05:36 20:36	06:04 20:09	19:12 (WTG 01) 19:27 (WTG 01)	06:35 19:21	07:06 18:30	06:42 14:44 (WTG 02) 07:16
11	05:37 20:36	06:05 20:07	19:15 (WTG 01) 19:24 (WTG 01)	06:36 19:19	07:07 18:28	06:44 14:44 (WTG 02) 07:16
12	05:37 20:35	19:18 (WTG 01) 19:21 (WTG 01)	06:06 20:06	06:37 19:17	07:09 18:26	06:45 14:45 (WTG 02) 07:17
13	05:38 20:35	19:15 (WTG 01) 19:24 (WTG 01)	06:07 20:05	06:38 19:15	07:10 18:25	06:46 14:46 (WTG 02) 07:18
14	05:39 20:34	19:13 (WTG 01) 19:25 (WTG 01)	06:08 20:03	06:39 19:14	07:11 18:23	06:47 14:46 (WTG 02) 07:19
15	05:40 20:34	19:12 (WTG 01) 19:27 (WTG 01)	06:09 20:02	06:40 19:12	07:12 18:22	06:48 14:46 (WTG 02) 07:20
16	05:40 20:33	19:11 (WTG 01) 19:28 (WTG 01)	06:10 20:00	06:41 19:10	07:13 18:20	06:50 14:48 (WTG 02) 07:20
17	05:41 20:33	19:11 (WTG 01) 19:29 (WTG 01)	06:11 19:59	06:42 19:09	07:14 18:18	06:51 14:48 (WTG 02) 07:21
18	05:42 20:32	19:10 (WTG 01) 19:30 (WTG 01)	06:12 19:57	06:43 19:07	07:15 18:17	06:52 14:49 (WTG 02) 07:22
19	05:43 20:31	19:09 (WTG 01) 19:30 (WTG 01)	06:13 19:56	06:44 19:05	07:16 18:15	06:53 14:50 (WTG 02) 07:22
20	05:44 20:30	19:08 (WTG 01) 19:31 (WTG 01)	06:14 19:55	06:45 19:03	07:17 18:14	06:54 14:51 (WTG 02) 07:23
21	05:45 20:30	19:08 (WTG 01) 19:32 (WTG 01)	06:15 19:53	06:46 19:02	07:19 18:12	06:56 14:52 (WTG 02) 07:24
22	05:45 20:29	19:08 (WTG 01) 19:33 (WTG 01)	06:16 19:52	06:47 19:00	07:20 18:11	06:57 14:53 (WTG 02) 07:24
23	05:46 20:28	19:07 (WTG 01) 19:33 (WTG 01)	06:17 19:50	06:48 18:58	07:21 18:09	06:58 14:55 (WTG 02) 07:25
24	05:47 20:27	19:07 (WTG 01) 19:34 (WTG 01)	06:18 19:48	06:49 18:57	07:22 18:08	06:59 14:57 (WTG 02) 07:25
25	05:48 20:26	19:07 (WTG 01) 19:35 (WTG 01)	06:19 19:47	06:50 18:55	07:23 17:07	07:00 14:59 (WTG 02) 07:25
26	05:49 20:25	19:07 (WTG 01) 19:35 (WTG 01)	06:20 19:45	06:52 18:53	07:24 17:05	07:01 15:00 (WTG 02) 07:26
27	05:50 20:25	19:06 (WTG 01) 19:34 (WTG 01)	06:21 19:44	06:53 18:51	07:25 17:04	07:03 15:03 (WTG 02) 07:26
28	05:51 20:24	19:06 (WTG 01) 19:34 (WTG 01)	06:22 19:42	06:54 18:50	07:26 17:02	07:04 15:06 (WTG 02) 07:26
29	05:52 20:23	19:06 (WTG 01) 19:35 (WTG 01)	06:23 19:41	06:55 18:48	07:27 17:01	07:05 15:13 (WTG 02) 07:27
30	05:53 20:22	19:06 (WTG 01) 19:35 (WTG 01)	06:24 19:39	06:56 18:46	07:28 17:00	07:06 15:27 (WTG 02) 16:33
31	05:54 20:20	19:06 (WTG 01) 19:35 (WTG 01)	06:25 19:37	06:30 16:59	07:29 15:27 (WTG 02)	07:07 16:40
Ore potenziali eliofanía	460	429	375	345	297	286
Totale, caso peggiore	439	248	311	1001		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 103 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (409)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:09 (WTG 04)	07:14	06:37	06:46				05:59	17:57 (WTG 02)	05:30	17:50 (WTG 02)
	16:41	21 08:30 (WTG 04)	17:16	17:51	19:25				19:58	59 18:56 (WTG 02)	20:28	78 19:08 (WTG 02)
2	07:28	08:10 (WTG 04)	07:13	06:36	06:44				05:58	17:56 (WTG 02)	05:30	17:49 (WTG 02)
	16:42	21 08:31 (WTG 04)	17:17	17:52	19:26				19:59	62 18:58 (WTG 02)	20:28	79 19:08 (WTG 02)
3	07:28	08:10 (WTG 04)	07:12	06:34	06:42				05:57	17:54 (WTG 02)	05:29	17:50 (WTG 02)
	16:43	21 08:31 (WTG 04)	17:18	17:53	19:27				20:00	64 18:58 (WTG 02)	20:29	78 19:08 (WTG 02)
4	07:28	08:11 (WTG 04)	07:11	06:33	06:41				05:56	17:54 (WTG 02)	05:29	17:51 (WTG 02)
	16:44	20 08:31 (WTG 04)	17:20	17:54	19:29				20:01	65 18:59 (WTG 02)	20:30	78 19:09 (WTG 02)
5	07:28	08:12 (WTG 04)	07:10	06:31	06:39				05:54	17:53 (WTG 02)	05:28	17:50 (WTG 02)
	16:45	20 08:32 (WTG 04)	17:21	17:55	19:30				20:02	67 19:00 (WTG 02)	20:31	78 19:08 (WTG 02)
6	07:28	08:13 (WTG 04)	07:08	06:29	06:38				05:53	17:52 (WTG 02)	05:28	17:51 (WTG 02)
	16:46	19 08:32 (WTG 04)	17:22	17:56	19:31				20:03	69 19:01 (WTG 02)	20:31	78 19:09 (WTG 02)
7	07:28	08:13 (WTG 04)	07:07	06:28	06:36				05:52	17:52 (WTG 02)	05:28	17:51 (WTG 02)
	16:47	19 08:32 (WTG 04)	17:24	17:58	19:32				20:04	70 19:02 (WTG 02)	20:32	78 19:09 (WTG 02)
8	07:27	08:14 (WTG 04)	07:06	06:26	06:34				05:51	17:51 (WTG 02)	05:28	17:52 (WTG 02)
	16:48	19 08:33 (WTG 04)	17:25	17:59	19:33				20:05	71 19:02 (WTG 02)	20:33	77 19:09 (WTG 02)
9	07:27	08:14 (WTG 04)	07:05	06:24	06:33				05:49	17:50 (WTG 02)	05:27	17:51 (WTG 02)
	16:49	18 08:32 (WTG 04)	17:26	18:00	19:34				20:06	72 19:02 (WTG 02)	20:33	78 19:09 (WTG 02)
10	07:27	08:16 (WTG 04)	07:04	06:23	06:31				05:48	17:50 (WTG 02)	05:27	17:52 (WTG 02)
	16:50	16 08:32 (WTG 04)	17:27	18:01	19:35				20:07	72 19:02 (WTG 02)	20:34	77 19:09 (WTG 02)
11	07:27	08:17 (WTG 04)	07:03	06:21	06:29				05:47	17:49 (WTG 02)	05:27	17:52 (WTG 02)
	16:51	15 08:32 (WTG 04)	17:29	18:02	19:36				20:08	74 19:03 (WTG 02)	20:34	77 19:09 (WTG 02)
12	07:27	08:17 (WTG 04)	07:01	06:20	06:28				05:46	17:49 (WTG 02)	05:27	17:53 (WTG 02)
	16:52	14 08:31 (WTG 04)	17:30	18:03	19:37				20:09	74 19:03 (WTG 02)	20:35	77 19:10 (WTG 02)
13	07:26	08:19 (WTG 04)	07:00	06:18	06:26				05:45	17:49 (WTG 02)	05:27	17:53 (WTG 02)
	16:53	12 08:31 (WTG 04)	17:31	18:04	19:38				20:10	75 19:04 (WTG 02)	20:35	77 19:10 (WTG 02)
14	07:26	08:21 (WTG 04)	06:59	06:16	06:25				05:44	17:48 (WTG 02)	05:27	17:53 (WTG 02)
	16:54	9 08:30 (WTG 04)	17:32	18:06	19:39				20:11	76 19:04 (WTG 02)	20:36	77 19:10 (WTG 02)
15	07:26	08:24 (WTG 04)	06:58	06:15	06:23				05:43	17:48 (WTG 02)	05:27	17:53 (WTG 02)
	16:55	3 08:27 (WTG 04)	17:34	18:07	19:40				20:12	76 19:04 (WTG 02)	20:36	77 19:10 (WTG 02)
16	07:25		06:56	06:13	06:21				05:42	17:48 (WTG 02)	05:27	17:54 (WTG 02)
	16:56		17:35	18:08	19:41				20:13	77 19:05 (WTG 02)	20:37	76 19:10 (WTG 02)
17	07:25		06:55	06:11	06:20				05:41	17:48 (WTG 02)	05:27	17:54 (WTG 02)
	16:58		17:36	18:09	19:43				20:14	78 19:06 (WTG 02)	20:37	76 19:10 (WTG 02)
18	07:24		06:53	06:10	06:18				05:40	17:48 (WTG 02)	05:27	17:54 (WTG 02)
	16:59		17:37	18:10	19:44				20:15	78 19:06 (WTG 02)	20:37	77 19:11 (WTG 02)
19	07:24		06:52	06:08	06:17				05:39	17:48 (WTG 02)	05:27	17:54 (WTG 02)
	17:00		17:39	18:11	19:45				20:16	78 19:06 (WTG 02)	20:38	77 19:11 (WTG 02)
20	07:23		06:51	06:06	06:15				05:38	17:48 (WTG 02)	05:27	17:55 (WTG 02)
	17:01		17:40	18:12	19:46				20:17	78 19:06 (WTG 02)	20:38	77 19:12 (WTG 02)
21	07:23		06:49	06:04	06:14				05:37	17:48 (WTG 02)	05:27	17:55 (WTG 02)
	17:02		17:41	18:13	19:47				20:18	78 19:06 (WTG 02)	20:38	77 19:12 (WTG 02)
22	07:22		06:48	06:03	06:12			18:20 (WTG 02)	05:37	17:48 (WTG 02)	05:27	17:55 (WTG 02)
	17:04		17:42	18:14	19:48	16	18:36 (WTG 02)	20:19	79 19:07 (WTG 02)	20:38	77 19:12 (WTG 02)	
23	07:21		06:46	06:01	06:11			18:15 (WTG 02)	05:36	17:48 (WTG 02)	05:28	17:55 (WTG 02)
	17:05		17:43	18:15	19:49	26	18:41 (WTG 02)	20:20	79 19:07 (WTG 02)	20:38	77 19:12 (WTG 02)	
24	07:20		06:45	05:59	06:09			18:11 (WTG 02)	05:35	17:48 (WTG 02)	05:28	17:56 (WTG 02)
	17:06		17:45	18:17	19:50	33	18:44 (WTG 02)	20:21	79 19:07 (WTG 02)	20:39	77 19:13 (WTG 02)	
25	07:20		06:43	05:58	06:08			18:08 (WTG 02)	05:34	17:48 (WTG 02)	05:28	17:56 (WTG 02)
	17:07		17:46	18:18	19:51	39	18:47 (WTG 02)	20:22	79 19:07 (WTG 02)	20:39	76 19:12 (WTG 02)	
26	07:19		06:42	05:56	06:06			18:06 (WTG 02)	05:34	17:49 (WTG 02)	05:28	17:56 (WTG 02)
	17:08		17:47	18:19	19:52	44	18:50 (WTG 02)	20:23	78 19:07 (WTG 02)	20:39	76 19:12 (WTG 02)	
27	07:18		06:40	05:54	06:05			18:03 (WTG 02)	05:33	17:48 (WTG 02)	05:29	17:57 (WTG 02)
	17:10		17:48	18:20	19:53	48	18:51 (WTG 02)	20:24	79 19:07 (WTG 02)	20:39	76 19:13 (WTG 02)	
28	07:17		06:39	05:53	06:04			18:02 (WTG 02)	05:32	17:49 (WTG 02)	05:29	17:56 (WTG 02)
	17:11		17:49	18:21	19:54	51	18:53 (WTG 02)	20:24	79 19:08 (WTG 02)	20:39	77 19:13 (WTG 02)	
29	07:16			06:51	06:02			17:59 (WTG 02)	05:32	17:49 (WTG 02)	05:30	17:56 (WTG 02)
	17:12			19:22	19:56	54	18:53 (WTG 02)	20:25	79 19:08 (WTG 02)	20:39	77 19:13 (WTG 02)	
30	07:16			06:49	06:01			17:58 (WTG 02)	05:31	17:49 (WTG 02)	05:30	17:57 (WTG 02)
	17:13			19:23	19:57	57	18:55 (WTG 02)	20:26	79 19:08 (WTG 02)	20:39	77 19:14 (WTG 02)	
31	07:15			06:48					05:31	17:49 (WTG 02)		
	17:15			19:24					20:27	79 19:08 (WTG 02)		
Ore potenziali eliofanìa	296		297	369	399				449		454	
Totale, caso peggiore	247				368				2302		2314	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 103 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (409)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre				
1	05:31 20:39	17:56 (WTG 02) 19:13 (WTG 02)	05:55 20:19	18:00 (WTG 02) 19:14 (WTG 02)	06:26 19:36	06:57 18:45	06:32 16:57		07:07 16:32	07:59 (WTG 04) 08:14 (WTG 04)
2	05:31 20:39	17:57 (WTG 02) 19:14 (WTG 02)	05:56 20:18	18:00 (WTG 02) 19:13 (WTG 02)	06:27 19:34	06:58 18:43	06:33 16:56		07:08 16:32	07:59 (WTG 04) 08:15 (WTG 04)
3	05:32 20:38	17:57 (WTG 02) 19:14 (WTG 02)	05:57 20:17	18:00 (WTG 02) 19:13 (WTG 02)	06:28 19:32	06:59 18:41	06:34 16:55		07:09 16:32	07:59 (WTG 04) 08:16 (WTG 04)
4	05:32 20:38	17:57 (WTG 02) 19:15 (WTG 02)	05:58 20:16	18:01 (WTG 02) 19:12 (WTG 02)	06:29 19:31	07:00 18:39	06:35 16:54		07:10 16:32	07:58 (WTG 04) 08:17 (WTG 04)
5	05:33 20:38	17:57 (WTG 02) 19:14 (WTG 02)	05:59 20:15	18:01 (WTG 02) 19:12 (WTG 02)	06:30 19:29	07:01 18:38	06:36 16:52		07:11 16:31	07:59 (WTG 04) 08:17 (WTG 04)
6	05:33 20:38	17:57 (WTG 02) 19:15 (WTG 02)	06:00 20:14	18:02 (WTG 02) 19:11 (WTG 02)	06:31 19:27	07:02 18:36	06:38 16:51		07:12 16:31	07:59 (WTG 04) 08:18 (WTG 04)
7	05:34 20:37	17:58 (WTG 02) 19:15 (WTG 02)	06:01 20:12	18:02 (WTG 02) 19:10 (WTG 02)	06:32 19:26	07:03 18:34	06:39 16:50		07:13 16:31	07:59 (WTG 04) 08:19 (WTG 04)
8	05:34 20:37	17:57 (WTG 02) 19:15 (WTG 02)	06:02 20:11	18:03 (WTG 02) 19:09 (WTG 02)	06:33 19:24	07:04 18:33	06:40 16:49		07:14 16:31	07:59 (WTG 04) 08:19 (WTG 04)
9	05:35 20:37	17:57 (WTG 02) 19:16 (WTG 02)	06:03 20:10	18:04 (WTG 02) 19:08 (WTG 02)	06:34 19:22	07:05 18:31	06:41 16:48		07:15 16:31	08:00 (WTG 04) 08:20 (WTG 04)
10	05:36 20:36	17:58 (WTG 02) 19:16 (WTG 02)	06:04 20:09	18:04 (WTG 02) 19:07 (WTG 02)	06:35 19:21	07:06 18:30	06:42 16:47		07:16 16:31	08:00 (WTG 04) 08:21 (WTG 04)
11	05:37 20:36	17:57 (WTG 02) 19:16 (WTG 02)	06:05 20:07	18:05 (WTG 02) 19:06 (WTG 02)	06:36 19:19	07:07 18:28	06:44 16:46		07:16 16:31	07:59 (WTG 04) 08:20 (WTG 04)
12	05:37 20:35	17:57 (WTG 02) 19:16 (WTG 02)	06:06 20:06	18:06 (WTG 02) 19:05 (WTG 02)	06:37 19:17	07:09 18:26	06:45 16:45		07:17 16:31	08:00 (WTG 04) 08:21 (WTG 04)
13	05:38 20:35	17:58 (WTG 02) 19:16 (WTG 02)	06:07 20:05	18:07 (WTG 02) 19:03 (WTG 02)	06:38 19:15	07:10 18:25	06:46 16:44		07:18 16:31	08:01 (WTG 04) 08:22 (WTG 04)
14	05:39 20:34	17:58 (WTG 02) 19:17 (WTG 02)	06:08 20:03	18:09 (WTG 02) 19:02 (WTG 02)	06:39 19:14	07:11 18:23	06:47 16:43		07:19 16:32	08:01 (WTG 04) 08:23 (WTG 04)
15	05:40 20:34	17:57 (WTG 02) 19:16 (WTG 02)	06:09 20:02	18:10 (WTG 02) 19:00 (WTG 02)	06:40 19:12	07:12 18:22	06:48 16:42		07:20 16:32	08:01 (WTG 04) 08:22 (WTG 04)
16	05:40 20:33	17:58 (WTG 02) 19:16 (WTG 02)	06:10 20:00	18:11 (WTG 02) 18:58 (WTG 02)	06:41 19:10	07:13 18:20	06:50 16:41		07:20 16:32	08:02 (WTG 04) 08:23 (WTG 04)
17	05:41 20:33	17:58 (WTG 02) 19:17 (WTG 02)	06:11 19:59	18:13 (WTG 02) 18:56 (WTG 02)	06:42 19:09	07:14 18:18	06:51 16:40		07:21 16:32	08:02 (WTG 04) 08:24 (WTG 04)
18	05:42 20:32	17:58 (WTG 02) 19:17 (WTG 02)	06:12 19:57	18:14 (WTG 02) 18:52 (WTG 02)	06:43 19:07	07:15 18:17	06:52 16:40		07:22 16:33	08:24 (WTG 04) 08:24 (WTG 04)
19	05:43 20:31	17:57 (WTG 02) 19:16 (WTG 02)	06:13 19:56	18:17 (WTG 02) 18:49 (WTG 02)	06:44 19:05	07:16 18:15	06:53 16:39		07:22 16:33	08:03 (WTG 04) 08:25 (WTG 04)
20	05:44 20:30	17:58 (WTG 02) 19:16 (WTG 02)	06:14 19:55	18:20 (WTG 02) 18:45 (WTG 02)	06:45 19:03	07:17 18:14	06:54 16:38		07:23 16:34	08:04 (WTG 04) 08:26 (WTG 04)
21	05:45 20:30	17:58 (WTG 02) 19:16 (WTG 02)	06:15 19:53	18:26 (WTG 02) 18:40 (WTG 02)	06:46 19:02	07:19 18:12	06:56 16:37		07:23 16:34	08:04 (WTG 04) 08:26 (WTG 04)
22	05:45 20:29	17:58 (WTG 02) 19:17 (WTG 02)	06:16 19:52		06:47 19:00	07:20 18:11	06:57 16:37		07:24 16:34	08:05 (WTG 04) 08:27 (WTG 04)
23	05:46 20:28	17:58 (WTG 02) 19:17 (WTG 02)	06:17 19:50		06:48 18:58	07:21 18:09	06:58 16:36		07:25 16:35	08:05 (WTG 04) 08:27 (WTG 04)
24	05:47 20:27	17:58 (WTG 02) 19:17 (WTG 02)	06:18 19:48		06:49 18:57	07:22 18:08	06:59 16:36		07:25 16:36	08:05 (WTG 04) 08:27 (WTG 04)
25	05:48 20:26	17:59 (WTG 02) 19:17 (WTG 02)	06:19 19:47		06:50 18:55	07:23 17:07	07:00 16:35		07:25 16:36	08:06 (WTG 04) 08:28 (WTG 04)
26	05:49 20:25	17:59 (WTG 02) 19:16 (WTG 02)	06:20 19:45		06:52 18:53	07:24 17:05	07:01 16:34		07:26 16:37	08:06 (WTG 04) 08:28 (WTG 04)
27	05:50 20:24	17:58 (WTG 02) 19:15 (WTG 02)	06:21 19:44		06:53 18:51	07:25 17:04	07:03 16:34	08:03 (WTG 04)	07:26 16:37	08:07 (WTG 04) 08:28 (WTG 04)
28	05:51 20:24	19:15 (WTG 02) 19:15 (WTG 02)	06:22 19:42		06:54 18:50	07:26 17:02	07:04 16:34	08:01 (WTG 04) 08:09 (WTG 04)	07:26 16:38	08:08 (WTG 04) 08:29 (WTG 04)
29	05:52 20:23	17:59 (WTG 02) 19:15 (WTG 02)	06:23 19:41		06:55 18:48	07:27 17:01	07:05 16:33	08:00 (WTG 04) 08:12 (WTG 04)	07:27 16:39	08:08 (WTG 04) 08:29 (WTG 04)
30	05:53 20:22	17:59 (WTG 02) 19:15 (WTG 02)	06:24 19:39		06:56 18:46	07:28 17:00	07:06 16:33	08:00 (WTG 04) 08:13 (WTG 04)	07:27 16:40	08:08 (WTG 04) 08:30 (WTG 04)
31	05:54 20:20	17:59 (WTG 02) 19:14 (WTG 02)	06:25 19:37			06:30 16:59			07:27 16:40	08:09 (WTG 04) 08:30 (WTG 04)
Ore potenziali eliofanìa	460	429		375	345	297			286	
Totale, caso peggiore	2414		1170			36			638	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 104 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (410)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	07:27	07:14	06:37	06:46	06:00	05:30	05:31	05:55	06:26	06:57	06:32	07:30 (WTG 03)	07:07		
	16:41	17:16	17:51	19:25	19:58	20:28	20:39	20:19	19:36	18:45	16:57	29	07:59 (WTG 03)	16:32	
2	07:28	07:13	06:36	06:44	05:58	05:30	05:31	05:56	06:27	06:58	06:33		07:32 (WTG 03)	07:08	
	16:42	17:17	17:52	19:26	19:59	20:28	20:39	20:18	19:34	18:43	16:56	27	07:59 (WTG 03)	16:32	
3	07:28	07:12	06:34	06:43	05:57	05:29	05:32	05:57	06:28	06:59	06:34		07:33 (WTG 03)	07:09	
	16:43	17:19	17:53	19:27	20:00	20:29	20:38	20:17	19:32	18:41	16:55	25	07:58 (WTG 03)	16:32	
4	07:28	07:11	08:09 (WTG 03)	06:33	06:41	05:56	05:29	05:32	05:58	06:29	07:00	06:35		07:33 (WTG 03)	07:10
	16:44	17:20	17:54	19:29	20:01	20:30	20:38	20:16	19:31	18:40	16:54	24	07:57 (WTG 03)	16:32	
5	07:28	07:10	08:07 (WTG 03)	06:31	06:39	05:54	05:29	05:33	05:59	06:30	07:01	06:36		07:35 (WTG 03)	07:11
	16:45	17:21	17:55	19:30	20:02	20:31	20:38	20:15	19:29	18:38	16:52	20	07:55 (WTG 03)	16:32	
6	07:28	07:09	08:05 (WTG 03)	06:29	06:38	05:53	05:28	05:33	06:00	06:31	07:02	06:38		07:37 (WTG 03)	07:12
	16:46	17:22	17:56	19:31	20:03	20:31	20:38	20:14	19:27	18:36	16:51	17	07:54 (WTG 03)	16:31	
7	07:28	07:07	08:28 (WTG 03)	06:28	06:36	05:52	05:28	05:34	06:01	06:32	07:03	06:39		07:39 (WTG 03)	07:13
	16:47	17:24	17:58	19:32	20:04	20:32	20:37	20:12	19:26	18:35	16:50	13	07:52 (WTG 03)	16:31	
8	07:27	07:06	08:03 (WTG 03)	06:26	06:34	05:51	05:28	05:35	06:02	06:33	07:04	06:40		07:45 (WTG 03)	07:14
	16:48	17:25	17:59	19:33	20:05	20:33	20:37	20:11	19:24	18:33	16:49	1	07:46 (WTG 03)	16:31	
9	07:27	07:05	08:02 (WTG 03)	06:25	06:33	05:50	05:27	05:35	06:03	06:34	07:05	06:41		07:15	
	16:49	17:26	18:00	19:34	20:06	20:33	20:37	20:10	19:22	18:31	16:48			16:31	
10	07:27	07:04	08:02 (WTG 03)	06:23	06:31	05:48	05:27	05:36	06:04	06:35	07:06	06:42		07:16	
	16:50	17:27	18:01	19:35	20:07	20:34	20:36	20:09	19:21	18:30	16:47			16:31	
11	07:27	07:03	08:00 (WTG 03)	06:21	06:29	05:47	05:27	05:37	06:05	06:36	07:07	06:44		07:17	
	16:51	17:29	18:02	19:36	20:08	20:34	20:36	20:07	19:19	18:28	16:46			16:31	
12	07:27	07:01	08:00 (WTG 03)	06:20	06:28	05:46	05:27	05:37	06:06	06:37	07:09	06:45		07:17	
	16:52	17:30	18:03	19:37	20:09	20:35	20:35	20:06	19:17	18:26	16:45			16:31	
13	07:26	07:00	08:00 (WTG 03)	06:18	06:26	05:45	05:27	05:38	06:07	06:38	07:10	06:46		07:18	
	16:53	17:31	18:04	19:38	20:10	20:35	20:35	20:05	19:16	18:25	16:44			16:32	
14	07:26	06:59	07:59 (WTG 03)	06:16	06:25	05:44	05:27	05:39	06:08	06:39	07:11	06:47		07:19	
	16:54	17:32	18:06	19:39	20:11	20:36	20:34	20:03	19:14	18:23	16:43			16:32	
15	07:26	06:58	08:00 (WTG 03)	06:15	06:23	05:43	05:27	05:40	06:09	06:40	07:12	06:49		07:20	
	16:55	17:34	18:07	19:40	20:12	20:36	20:34	20:02	19:12	18:22	16:42			16:32	
16	07:25	06:56	08:00 (WTG 03)	06:13	06:21	05:42	05:27	05:40	06:10	06:41	07:13	06:50		07:20	
	16:56	17:35	18:08	19:42	20:13	20:37	20:33	20:00	19:10	18:20	16:41			16:32	
17	07:25	06:55	08:00 (WTG 03)	06:11	06:20	05:41	05:27	05:41	06:11	06:42	07:14	5	08:44 (WTG 03)	06:50	
	16:58	17:36	18:09	19:43	20:14	20:37	20:33	19:59	19:09	18:19	14	08:53 (WTG 03)	06:40	07:21	
18	07:24	06:53	08:01 (WTG 03)	06:10	06:18	05:40	05:27	05:42	06:12	06:43	07:15	14	08:36 (WTG 03)	06:52	
	16:59	17:37	18:10	19:44	20:15	20:37	20:32	19:58	19:07	18:17	19	08:55 (WTG 03)	06:40	16:33	
19	07:24	06:52	08:00 (WTG 03)	06:08	06:17	05:39	05:27	05:43	06:13	06:44	07:16	19	08:34 (WTG 03)	06:53	
	17:00	17:39	18:11	19:45	20:16	20:38	20:31	19:56	19:05	18:15	23	08:57 (WTG 03)	06:39	16:33	
20	07:23	06:51	08:01 (WTG 03)	06:06	06:15	05:38	05:27	05:44	06:14	06:45	07:18	23	08:33 (WTG 03)	06:54	
	17:01	17:40	18:12	19:46	20:17	20:38	20:31	19:55	19:03	18:14	25	08:58 (WTG 03)	06:38	16:34	
21	07:23	06:49	08:02 (WTG 03)	06:04	06:14	05:38	05:27	05:45	06:15	06:46	07:19	25	08:33 (WTG 03)	06:56	
	17:02	17:41	18:13	19:47	20:18	20:38	20:30	19:53	19:02	18:12	27	09:00 (WTG 03)	06:37	16:34	
22	07:22	06:48	08:03 (WTG 03)	06:03	06:12	05:37	05:27	05:45	06:16	06:47	07:20	27	08:31 (WTG 03)	06:57	
	17:04	17:42	18:14	19:48	20:19	20:38	20:29	19:52	19:00	18:11	29	09:00 (WTG 03)	06:37	16:34	
23	07:21	06:46	08:04 (WTG 03)	06:01	06:11	05:36	05:28	05:46	06:17	06:48	07:21	29	08:31 (WTG 03)	06:58	
	17:05	17:43	18:16	19:49	20:20	20:38	20:28	19:50	18:58	18:10	29	09:00 (WTG 03)	06:36	16:35	
24	07:21	06:45	08:06 (WTG 03)	05:59	06:09	05:35	05:28	05:47	06:18	06:49	07:22	31	08:30 (WTG 03)	06:59	
	17:06	17:45	18:17	19:50	20:21	20:39	20:27	19:48	18:57	18:08	31	09:01 (WTG 03)	06:36	16:36	
25	07:20	06:43	08:09 (WTG 03)	05:58	06:08	05:34	05:28	05:48	06:19	06:51	06:23	31	07:29 (WTG 03)	07:00	
	17:07	17:46	18:18	19:51	20:22	20:39	20:26	19:47	18:55	17:07	32	08:01 (WTG 03)	06:35	16:36	
26	07:19	06:42	05:56	06:06	05:34	05:29	05:49	06:20	06:52	06:24	07:01	32	07:30 (WTG 03)	07:01	
	17:08	17:47	18:19	19:52	20:23	20:39	20:25	19:45	18:53	17:05	31	08:01 (WTG 03)	06:35	16:37	
27	07:18	06:40	05:54	06:05	05:33	05:29	05:50	06:21	06:53	06:26	07:09	31	07:29 (WTG 03)	07:03	
	17:10	17:48	18:20	19:53	20:24	20:39	20:25	19:44	18:51	17:04	32	08:01 (WTG 03)	06:34	16:37	
28	07:17	06:39	05:53	06:04	05:32	05:29	05:51	06:22	06:54	06:27	07:09	32	07:29 (WTG 03)	07:04	
	17:11	17:49	18:21	19:55	20:24	20:39	20:24	19:42	18:50	17:03	32	08:01 (WTG 03)	06:34	16:38	
29	07:17		06:51	06:02	05:32	05:30	05:52	06:23	06:55	06:28	07:29	32	07:29 (WTG 03)	07:05	
	17:12		19:22	19:56	20:25	20:39	20:23	19:41	18:48	17:01	31	08:00 (WTG 03)	06:33	16:39	
30	07:16		06:49	06:01	05:31	05:30	05:53	06:24	06:56	06:29	07:30	31	07:30 (WTG 03)	07:06	
	17:13		19:23	19:57	20:26	20:39	20:22	19:39	18:46	17:00	31	08:01 (WTG 03)	06:33	16:40	
31	07:15		06:48		05:31		05:54	06:25		06:30	30	07:30 (WTG 03)		16:40	
	17:15		19:24		20:27		20:20	19:37		16:59	30	08:00 (WTG 03)		16:40	
Ore potenziali eliofanía															
Totale, caso peggiore	296	297	369	399	449	454	460	429	375	345	421	297	156	286	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH
 Schweizer Straße 3a
 DE-01069 Dresden
 +49 (0) 351 / 211 83 - 46
 Luca Di Grigoli / luca.digrigoli@vsb.energy
 Redatto il:
 26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 105 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (411)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27	07:14	06:37	06:46	06:00	05:30	05:31	05:55	06:26	06:57	06:32	07:07
	16:41	17:16	17:51	19:25	19:58	20:28	20:39	20:19	19:36	18:45	16:57	16:32
2	07:28	07:13	06:36	07:56 (WTG 03)	06:44	05:58	05:30	05:31	05:56	06:27	06:58	06:33
	16:42	17:17	17:52	22 08:18 (WTG 03)	19:26	19:59	20:28	20:39	20:18	19:34	18:43	16:56
3	07:28	07:12	06:34	07:57 (WTG 03)	06:43	05:57	05:29	05:32	05:57	06:28	06:59	06:34
	16:43	17:19	17:53	19 08:16 (WTG 03)	19:27	20:00	20:29	20:38	20:17	19:32	18:41	16:55
4	07:28	07:11	06:33	07:57 (WTG 03)	06:41	05:56	05:29	05:32	05:58	06:29	07:00	06:35
	16:44	17:20	17:54	12 08:13 (WTG 03)	19:29	20:01	20:30	20:38	20:16	19:31	18:40	16:54
5	07:28	07:10	06:31	06:39	05:54	05:29	05:33	05:59	06:30	07:01	06:36	07:11
	16:45	17:21	17:55	19:30	20:02	20:31	20:38	20:15	19:29	18:38	16:52	16:32
6	07:28	07:09	06:29	06:38	05:53	05:28	05:33	06:00	06:31	07:02	06:38	07:12
	16:46	17:22	17:56	19:31	20:03	20:31	20:38	20:14	19:27	18:36	16:51	16:31
7	07:28	07:07	06:28	06:36	05:52	05:28	05:34	06:01	06:32	07:03	06:39	07:13
	16:47	17:24	17:58	19:32	20:04	20:32	20:37	20:12	19:26	18:35	16:50	16:31
8	07:27	07:06	06:26	06:34	05:51	05:28	05:35	06:02	06:33	07:04	06:40	07:14
	16:48	17:25	17:59	19:33	20:05	20:33	20:37	20:11	19:24	18:33	16:49	16:31
9	07:27	07:05	06:25	06:33	05:50	05:27	05:35	06:03	06:34	07:05	06:41	07:15
	16:49	17:26	18:00	19:34	20:06	20:33	20:37	20:10	19:22	18:31	7 08:38 (WTG 03)	16:48
10	07:27	07:04	06:23	06:31	05:48	05:27	05:36	06:04	06:35	07:06	08:34 (WTG 03)	06:42
	16:50	17:27	18:01	19:35	20:07	20:34	20:36	20:09	19:21	18:30	15 08:49 (WTG 03)	16:47
11	07:27	07:03	06:21	06:29	05:47	05:27	05:37	06:05	06:36	07:07	08:31 (WTG 03)	06:44
	16:51	17:29	6 08:12 (WTG 03)	19:36	20:08	20:34	20:36	20:07	19:19	18:28	20 08:51 (WTG 03)	16:46
12	07:27	07:01	06:20	06:28	05:46	05:27	05:37	06:06	06:37	07:09	08:29 (WTG 03)	06:45
	16:52	17:30	14 08:16 (WTG 03)	19:37	20:09	20:35	20:35	20:06	19:17	18:26	23 08:52 (WTG 03)	16:45
13	07:26	07:00	06:18	06:26	05:45	05:27	05:38	06:07	06:38	07:10	08:27 (WTG 03)	06:46
	16:53	17:31	19 08:19 (WTG 03)	19:38	20:10	20:35	20:35	20:05	19:16	18:25	26 08:53 (WTG 03)	16:44
14	07:26	06:59	06:16	06:25	05:44	05:27	05:39	06:08	06:39	07:11	08:26 (WTG 03)	06:47
	16:54	17:32	22 08:20 (WTG 03)	19:39	20:11	20:36	20:34	20:03	19:14	18:23	28 08:54 (WTG 03)	16:43
15	07:26	06:58	06:15	06:23	05:43	05:27	05:40	06:09	06:40	07:12	08:25 (WTG 03)	06:49
	16:55	17:34	25 08:22 (WTG 03)	19:40	20:12	20:36	20:34	20:02	19:12	18:22	29 08:54 (WTG 03)	16:42
16	07:25	06:56	06:13	06:21	05:42	05:27	05:40	06:10	06:41	07:13	08:25 (WTG 03)	06:50
	16:56	17:35	27 08:23 (WTG 03)	19:42	20:13	20:37	20:33	20:00	19:10	18:20	31 08:56 (WTG 03)	16:41
17	07:25	06:55	06:11	06:20	05:41	05:27	05:41	06:11	06:42	07:14	08:24 (WTG 03)	06:51
	16:58	17:36	29 08:23 (WTG 03)	19:43	20:14	20:37	20:33	19:59	19:09	18:19	32 08:56 (WTG 03)	16:40
18	07:24	06:53	06:10	06:18	05:40	05:27	05:42	06:12	06:43	07:15	08:24 (WTG 03)	06:52
	16:59	17:37	30 08:24 (WTG 03)	19:44	20:15	20:37	20:32	19:58	19:07	18:17	32 08:56 (WTG 03)	16:40
19	07:24	06:52	06:08	06:17	05:39	05:27	05:43	06:13	06:44	07:16	08:23 (WTG 03)	06:53
	17:00	17:39	31 08:24 (WTG 03)	19:45	20:16	20:38	20:31	19:56	19:05	18:15	33 08:56 (WTG 03)	16:39
20	07:23	06:51	06:06	06:15	05:38	05:27	05:44	06:14	06:45	07:18	08:23 (WTG 03)	06:54
	17:01	17:40	32 08:25 (WTG 03)	19:46	20:17	20:38	20:31	19:55	19:03	18:14	32 08:55 (WTG 03)	16:38
21	07:23	06:49	06:04	06:14	05:38	05:27	05:45	06:15	06:46	07:19	08:24 (WTG 03)	06:56
	17:02	17:41	32 08:25 (WTG 03)	19:47	20:18	20:38	20:30	19:53	19:02	18:12	32 08:56 (WTG 03)	16:37
22	07:22	06:48	06:03	06:12	05:37	05:27	05:45	06:16	06:47	07:20	08:24 (WTG 03)	06:57
	17:04	17:42	33 08:25 (WTG 03)	19:48	20:19	20:38	20:29	19:52	19:00	18:11	31 08:55 (WTG 03)	16:37
23	07:21	06:46	06:01	06:11	05:36	05:28	05:46	06:17	06:48	07:21	08:24 (WTG 03)	06:58
	17:05	17:43	32 08:25 (WTG 03)	19:49	20:20	20:38	20:28	19:50	18:58	18:10	31 08:55 (WTG 03)	16:36
24	07:21	06:45	05:59	06:09	05:35	05:28	05:47	06:18	06:49	07:22	08:24 (WTG 03)	06:59
	17:06	17:45	32 08:24 (WTG 03)	19:50	20:21	20:39	20:27	19:48	18:57	18:08	30 08:54 (WTG 03)	16:36
25	07:20	06:43	05:58	06:08	05:34	05:28	05:48	06:19	06:51	06:23	07:24 (WTG 03)	07:00
	17:07	17:46	31 08:24 (WTG 03)	19:51	20:22	20:39	20:26	19:47	18:55	17:07	29 07:53 (WTG 03)	16:35
26	07:19	06:42	05:56	06:06	05:34	05:29	05:49	06:20	06:52	06:24	07:26 (WTG 03)	07:01
	17:08	17:47	30 08:23 (WTG 03)	19:52	20:23	20:39	20:25	19:45	18:53	17:05	26 07:52 (WTG 03)	16:35
27	07:18	06:40	05:54	06:05	05:33	05:29	05:50	06:21	06:53	06:26	07:27 (WTG 03)	07:03
	17:10	17:48	29 08:23 (WTG 03)	19:53	20:24	20:39	20:25	19:44	18:51	17:04	24 07:51 (WTG 03)	16:34
28	07:17	06:39	05:53	06:04	05:32	05:29	05:51	06:22	06:54	06:27	07:28 (WTG 03)	07:04
	17:11	17:49	27 08:21 (WTG 03)	19:55	20:24	20:39	20:24	19:42	18:50	17:03	21 07:49 (WTG 03)	16:34
29	07:17		06:51	06:02	05:32	05:30	05:52	06:23	06:55	06:28	07:29 (WTG 03)	07:05
	17:12		19:22	19:56	20:25	20:39	20:23	19:41	18:48	17:01	18 07:47 (WTG 03)	16:33
30	07:16		06:49	06:01	05:31	05:30	05:53	06:24	06:56	06:29	07:33 (WTG 03)	07:06
	17:13		19:23	19:57	20:26	20:39	20:22	19:39	18:46	17:00	12 07:45 (WTG 03)	16:33
31	07:15		06:48		05:31		05:54	06:25		06:30		07:27
	17:15		19:24		20:27		20:20	19:37		16:59		16:40
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		481		78							562	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 106 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (412)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:14 (WTG 04)	07:14	06:37	06:46	05:59					05:30	18:47 (WTG 02)
	16:41	25 08:39 (WTG 04)	17:16	17:51	19:25	19:58					20:28	51 19:38 (WTG 02)
2	07:28	08:14 (WTG 04)	07:13	06:36	06:44	05:58					05:30	18:46 (WTG 02)
	16:42	25 08:39 (WTG 04)	17:17	17:52	19:26	19:59					20:28	52 19:38 (WTG 02)
3	07:28	08:14 (WTG 04)	07:12	06:34	06:42	05:57					05:29	18:46 (WTG 02)
	16:43	25 08:39 (WTG 04)	17:18	17:53	19:27	20:00					20:29	52 19:38 (WTG 02)
4	07:28	08:15 (WTG 04)	07:11	06:33	06:41	05:56					05:29	18:47 (WTG 02)
	16:44	25 08:40 (WTG 04)	17:20	17:54	19:29	20:01					20:30	52 19:39 (WTG 02)
5	07:28	08:15 (WTG 04)	07:10	06:31	06:39	05:54					05:28	18:46 (WTG 02)
	16:45	25 08:40 (WTG 04)	17:21	17:55	19:30	20:02					20:31	53 19:39 (WTG 02)
6	07:28	08:16 (WTG 04)	07:08	06:29	06:38	05:53					05:28	18:47 (WTG 02)
	16:46	25 08:41 (WTG 04)	17:22	17:56	19:31	20:03					20:31	52 19:39 (WTG 02)
7	07:28	08:17 (WTG 04)	07:07	06:28	06:36	05:52					05:28	18:47 (WTG 02)
	16:47	24 08:41 (WTG 04)	17:24	17:58	19:32	20:04					20:32	53 19:40 (WTG 02)
8	07:27	08:18 (WTG 04)	07:06	06:26	06:34	05:51					05:28	18:47 (WTG 02)
	16:48	24 08:42 (WTG 04)	17:25	17:59	19:33	20:05					20:32	53 19:40 (WTG 02)
9	07:27	08:17 (WTG 04)	07:05	06:24	06:33	05:49					05:27	18:46 (WTG 02)
	16:49	24 08:41 (WTG 04)	17:26	18:00	19:34	20:06					20:33	54 19:40 (WTG 02)
10	07:27	08:18 (WTG 04)	07:04	06:23	06:31	05:48					05:27	18:47 (WTG 02)
	16:50	24 08:42 (WTG 04)	17:27	18:01	19:35	20:07					20:34	53 19:40 (WTG 02)
11	07:27	08:19 (WTG 04)	07:03	06:21	06:29	05:47					05:27	18:47 (WTG 02)
	16:51	23 08:42 (WTG 04)	17:29	18:02	19:36	20:08					20:34	54 19:41 (WTG 02)
12	07:27	08:19 (WTG 04)	07:01	06:20	06:28	05:46					05:27	18:47 (WTG 02)
	16:52	22 08:41 (WTG 04)	17:30	18:03	19:37	20:09	14	19:03 (WTG 02)			20:35	54 19:41 (WTG 02)
13	07:26	08:20 (WTG 04)	07:00	06:18	06:26	05:45					05:27	18:47 (WTG 02)
	16:53	22 08:42 (WTG 04)	17:31	18:04	19:38	20:10	20	19:20 (WTG 02)			20:35	54 19:41 (WTG 02)
14	07:26	08:22 (WTG 04)	06:59	06:16	06:25	05:44					05:27	18:48 (WTG 02)
	16:54	20 08:42 (WTG 04)	17:32	18:06	19:39	20:11	25	19:23 (WTG 02)			20:36	54 19:42 (WTG 02)
15	07:26	08:22 (WTG 04)	06:57	06:15	06:23	05:43					05:27	18:48 (WTG 02)
	16:55	19 08:41 (WTG 04)	17:34	18:07	19:40	20:12	29	19:25 (WTG 02)			20:36	54 19:42 (WTG 02)
16	07:25	08:24 (WTG 04)	06:56	06:13	06:21	05:42					05:27	18:48 (WTG 02)
	16:56	17 08:41 (WTG 04)	17:35	18:08	19:41	20:13	32	19:26 (WTG 02)			20:36	54 19:42 (WTG 02)
17	07:25	08:24 (WTG 04)	06:55	06:11	06:20	05:41					05:27	18:48 (WTG 02)
	16:58	16 08:40 (WTG 04)	17:36	18:09	19:43	20:14	34	19:28 (WTG 02)			20:37	54 19:42 (WTG 02)
18	07:24	08:25 (WTG 04)	06:53	06:10	06:18	05:40					05:27	18:48 (WTG 02)
	16:59	14 08:39 (WTG 04)	17:37	18:10	19:44	20:15	36	19:29 (WTG 02)			20:37	54 19:42 (WTG 02)
19	07:24	08:28 (WTG 04)	06:52	06:08	06:17	05:39					05:27	18:48 (WTG 02)
	17:00	11 08:39 (WTG 04)	17:39	18:11	19:45	20:16	38	19:30 (WTG 02)			20:38	54 19:42 (WTG 02)
20	07:23	08:30 (WTG 04)	06:51	06:06	06:15	05:38					05:27	18:49 (WTG 02)
	17:01	6 08:36 (WTG 04)	17:40	18:12	19:46	20:17	40	19:31 (WTG 02)			20:38	54 19:43 (WTG 02)
21	07:22		06:49	06:04	06:14	05:37					05:27	18:49 (WTG 02)
	17:02		17:41	18:13	19:47	20:18	41	19:31 (WTG 02)			20:38	54 19:43 (WTG 02)
22	07:22		06:48	06:03	06:12	05:37					05:27	18:49 (WTG 02)
	17:04		17:42	18:14	19:48	20:19	43	19:33 (WTG 02)			20:38	54 19:43 (WTG 02)
23	07:21		06:46	06:01	06:11	05:36					05:28	18:49 (WTG 02)
	17:05		17:43	5 07:10 (7)	18:15	19:49	20:20	44	19:33 (WTG 02)		20:38	54 19:43 (WTG 02)
24	07:20		06:45	07:09 (7)	05:59	06:09	05:35				05:28	18:50 (WTG 02)
	17:06		17:45	6 07:15 (7)	18:17	19:50	20:21	46	19:34 (WTG 02)		20:39	54 19:44 (WTG 02)
25	07:20		06:43	07:10 (7)	05:58	06:08	05:34				05:28	18:50 (WTG 02)
	17:07		17:46	5 07:15 (7)	18:18	19:51	20:22	47	19:34 (WTG 02)		20:39	54 19:44 (WTG 02)
26	07:19		06:42		05:56	06:06	05:34				05:28	18:50 (WTG 02)
	17:08		17:47		18:19	19:52	20:23	47	19:35 (WTG 02)		20:39	54 19:44 (WTG 02)
27	07:18		06:40		05:54	06:05	05:33				05:29	18:51 (WTG 02)
	17:10		17:48		18:20	19:53	20:24	48	19:35 (WTG 02)		20:39	54 19:45 (WTG 02)
28	07:17		06:39		05:53	06:04	05:32				05:29	18:51 (WTG 02)
	17:11		17:49		18:21	19:54	20:24	49	19:36 (WTG 02)		20:39	54 19:45 (WTG 02)
29	07:16				06:51	06:02	05:32				05:30	18:51 (WTG 02)
	17:12				19:22	19:56	20:25	49	19:36 (WTG 02)		20:39	53 19:44 (WTG 02)
30	07:16				06:49	06:01	05:31				05:30	18:51 (WTG 02)
	17:13				19:23	19:57	20:26	50	19:37 (WTG 02)		20:39	54 19:45 (WTG 02)
31	07:15				06:48		05:31					
	17:15				19:24		20:27	51	19:37 (WTG 02)			
Ore potenziali eliofanìa	296		297		369	399	449				454	1604
Totale, caso peggiore	416		16				783					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra
 Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm)
 (WTG che provoca l'inizio dell'ombreggiamento)
 (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 106 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (412)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre			
1	05:31	18:51 (WTG 02)	05:55	19:16 (WTG 02)	06:26	06:57			06:32		07:07	08:01 (WTG 04)		
	20:39	54	19:45 (WTG 02)	20:19	19:36	18:45			16:57		16:32	23	08:24 (WTG 04)	
2	05:31	18:52 (WTG 02)	05:56	19:26 (WTG 02)	06:27	06:58			06:33		07:08	08:01 (WTG 04)		
	20:39	53	19:45 (WTG 02)	20:18	19:34	18:43			16:56		16:32	24	08:25 (WTG 04)	
3	05:32	18:52 (WTG 02)	05:57		06:28	06:59			06:34		07:09	08:01 (WTG 04)		
	20:38	53	19:45 (WTG 02)	20:17	19:32	18:41			16:55		16:32	24	08:25 (WTG 04)	
4	05:32	18:52 (WTG 02)	05:58		06:29	07:00			06:35		07:10	08:02 (WTG 04)		
	20:38	54	19:46 (WTG 02)	20:16	19:31	18:39			16:54		16:32	24	08:26 (WTG 04)	
5	05:33	18:52 (WTG 02)	05:59		06:30	07:01			06:36		07:11	08:02 (WTG 04)		
	20:38	53	19:45 (WTG 02)	20:15	19:29	18:38			16:52		16:31	24	08:26 (WTG 04)	
6	05:33	18:53 (WTG 02)	06:00		06:31	07:02			06:38		07:12	08:02 (WTG 04)		
	20:38	53	19:46 (WTG 02)	20:14	19:27	18:36			16:51		16:31	25	08:27 (WTG 04)	
7	05:34	18:53 (WTG 02)	06:01		06:32	07:03			06:39		07:13	08:03 (WTG 04)		
	20:37	53	19:46 (WTG 02)	20:12	19:26	18:34			16:50		16:31	24	08:27 (WTG 04)	
8	05:34	18:53 (WTG 02)	06:02		06:33	07:04			06:40		07:14	08:03 (WTG 04)		
	20:37	52	19:45 (WTG 02)	20:11	19:24	18:33			16:49		16:31	25	08:28 (WTG 04)	
9	05:35	18:54 (WTG 02)	06:03		06:34	07:05			06:41		07:15	08:03 (WTG 04)		
	20:37	52	19:46 (WTG 02)	20:10	19:22	18:31			16:48		16:31	25	08:28 (WTG 04)	
10	05:36	18:54 (WTG 02)	06:04		06:35	07:06			06:42		07:16	08:04 (WTG 04)		
	20:36	52	19:46 (WTG 02)	20:09	19:21	18:30			16:47		16:31	25	08:29 (WTG 04)	
11	05:37	18:54 (WTG 02)	06:05		06:36	07:07			06:44		07:16	08:04 (WTG 04)		
	20:36	51	19:45 (WTG 02)	20:07	19:19	18:28			16:46		16:31	25	08:29 (WTG 04)	
12	05:37	18:55 (WTG 02)	06:06		06:37	07:09			06:45		07:17	08:04 (WTG 04)		
	20:35	51	19:46 (WTG 02)	20:06	19:17	18:26			16:45		16:31	25	08:29 (WTG 04)	
13	05:38	18:55 (WTG 02)	06:07		06:38	07:10			06:46		07:18	08:05 (WTG 04)		
	20:35	51	19:46 (WTG 02)	20:05	19:15	18:25			16:44		16:31	25	08:30 (WTG 04)	
14	05:39	18:56 (WTG 02)	06:08		06:39	07:11			06:47		07:19	08:06 (WTG 04)		
	20:34	50	19:46 (WTG 02)	20:03	19:14	18:23			16:43		16:32	24	08:30 (WTG 04)	
15	05:40	18:55 (WTG 02)	06:09		06:40	07:12			06:48		07:20	08:05 (WTG 04)		
	20:34	50	19:45 (WTG 02)	20:02	19:12	18:22			16:42		16:32	25	08:30 (WTG 04)	
16	05:40	18:56 (WTG 02)	06:10		06:41	07:13		07:43 (7)	06:50		07:20	08:06 (WTG 04)		
	20:33	49	19:45 (WTG 02)	20:00	19:10	18:20		3	07:46 (7)	16:41	16:32	25	08:31 (WTG 04)	
17	05:41	18:57 (WTG 02)	06:11		06:42	07:14			06:51		07:21	08:07 (WTG 04)		
	20:33	48	19:45 (WTG 02)	19:59	19:09	18:18		6	07:47 (7)	16:40	16:32	25	08:32 (WTG 04)	
18	05:42	18:58 (WTG 02)	06:12		06:43	07:15			06:52		07:22	08:07 (WTG 04)		
	20:32	47	19:45 (WTG 02)	19:57	19:07	18:17		5	07:46 (7)	16:40	16:33	25	08:32 (WTG 04)	
19	05:43	18:57 (WTG 02)	06:13		06:44	07:16			06:53		07:22	08:08 (WTG 04)		
	20:31	46	19:43 (WTG 02)	19:56	19:05	18:15		4	07:45 (7)	16:39	16:33	24	08:32 (WTG 04)	
20	05:44	18:58 (WTG 02)	06:14		06:45	07:17			06:54		07:23	08:09 (WTG 04)		
	20:30	45	19:43 (WTG 02)	19:55	19:03	18:14			16:38		16:34	24	08:33 (WTG 04)	
21	05:45	18:59 (WTG 02)	06:15		06:46	07:19			06:56		07:23	08:09 (WTG 04)		
	20:30	44	19:43 (WTG 02)	19:53	19:02	18:12			16:37		16:34	24	08:33 (WTG 04)	
22	05:45	19:00 (WTG 02)	06:16		06:47	07:20			06:57	08:07 (WTG 04)	07:24	08:10 (WTG 04)		
	20:29	42	19:42 (WTG 02)	19:52	19:00	18:11			16:37	5	08:12 (WTG 04)	16:34	24	08:34 (WTG 04)
23	05:46	19:01 (WTG 02)	06:17		06:48	07:21			06:58		07:25	08:10 (WTG 04)		
	20:28	41	19:42 (WTG 02)	19:50	18:58	18:09			16:36	11	08:15 (WTG 04)	16:35	24	08:34 (WTG 04)
24	05:47	19:02 (WTG 02)	06:18		06:49	07:22			06:59		07:25	08:10 (WTG 04)		
	20:27	39	19:41 (WTG 02)	19:48	18:57	18:08			16:36	14	08:17 (WTG 04)	16:36	24	08:34 (WTG 04)
25	05:48	19:03 (WTG 02)	06:19		06:50	06:23			07:00		07:25	08:11 (WTG 04)		
	20:26	37	19:40 (WTG 02)	19:47	18:55	17:07			16:35	16	08:18 (WTG 04)	16:36	24	08:35 (WTG 04)
26	05:49	19:04 (WTG 02)	06:20		06:51	06:24			07:01		07:26	08:11 (WTG 04)		
	20:25	35	19:39 (WTG 02)	19:45	18:53	17:05			16:34	18	08:20 (WTG 04)	16:37	25	08:36 (WTG 04)
27	05:50	19:04 (WTG 02)	06:21		06:52	06:26			07:03		07:26	08:11 (WTG 04)		
	20:24	33	19:37 (WTG 02)	19:44	18:51	17:04			16:34	19	08:20 (WTG 04)	16:37	25	08:36 (WTG 04)
28	05:51	19:06 (WTG 02)	06:22		06:54	06:27			07:04		07:26	08:12 (WTG 04)		
	20:24	30	19:36 (WTG 02)	19:42	18:50	17:02			16:34	20	08:21 (WTG 04)	16:38	25	08:37 (WTG 04)
29	05:52	19:07 (WTG 02)	06:23		06:55	06:28			07:05		07:27	08:12 (WTG 04)		
	20:23	27	19:34 (WTG 02)	19:41	18:48	17:01			16:33	22	08:22 (WTG 04)	16:39	25	08:37 (WTG 04)
30	05:53	19:09 (WTG 02)	06:24		06:56	06:29			07:06		07:27	08:13 (WTG 04)		
	20:21	23	19:32 (WTG 02)	19:39	18:46	17:00			16:33	23	08:24 (WTG 04)	16:40	25	08:38 (WTG 04)
31	05:54	19:12 (WTG 02)	06:25			06:30					07:27	08:13 (WTG 04)		
	20:20	18	19:30 (WTG 02)	19:37		16:59					16:40	25	08:38 (WTG 04)	
Ore potenziali eliofanìa	460		429		375	345			297		286			
Totale, caso peggiore	1386		10				18		148		760			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra
 Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 107 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (397)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:12 (WTG 04)	07:14	06:37	06:46	05:59					05:30	18:50 (WTG 02)
	16:41	25 08:37 (WTG 04)	17:16	17:51	19:25	19:58					20:28	50 19:40 (WTG 02)
2	07:28	08:12 (WTG 04)	07:13	06:36	06:44	05:58					05:30	18:49 (WTG 02)
	16:42	25 08:37 (WTG 04)	17:17	17:52	19:26	19:59					20:28	51 19:40 (WTG 02)
3	07:28	08:13 (WTG 04)	07:12	06:34	06:42	05:57					05:29	18:49 (WTG 02)
	16:43	25 08:38 (WTG 04)	17:18	17:53	19:27	20:00					20:29	51 19:40 (WTG 02)
4	07:28	08:13 (WTG 04)	07:11	06:33	06:41	05:56					05:29	18:50 (WTG 02)
	16:44	25 08:38 (WTG 04)	17:20	17:54	19:29	20:01					20:30	51 19:41 (WTG 02)
5	07:28	08:14 (WTG 04)	07:10	06:31	06:39	05:54					05:28	18:49 (WTG 02)
	16:45	25 08:39 (WTG 04)	17:21	17:55	19:30	20:02					20:31	52 19:41 (WTG 02)
6	07:28	08:14 (WTG 04)	07:08	06:29	06:38	05:53					05:28	18:49 (WTG 02)
	16:46	25 08:39 (WTG 04)	17:22	17:56	19:31	20:03					20:31	52 19:41 (WTG 02)
7	07:28	08:15 (WTG 04)	07:07	06:28	06:36	05:52					05:28	18:50 (WTG 02)
	16:47	25 08:40 (WTG 04)	17:24	17:58	19:32	20:04					20:32	52 19:42 (WTG 02)
8	07:27	08:16 (WTG 04)	07:06	06:26	06:34	05:51					05:28	18:50 (WTG 02)
	16:48	24 08:40 (WTG 04)	17:25	17:59	19:33	20:05					20:32	52 19:42 (WTG 02)
9	07:27	08:15 (WTG 04)	07:05	06:24	06:33	05:49					05:27	18:49 (WTG 02)
	16:49	25 08:40 (WTG 04)	17:26	18:00	19:34	20:06					20:33	53 19:42 (WTG 02)
10	07:27	08:16 (WTG 04)	07:04	06:23	06:31	05:48					05:27	18:49 (WTG 02)
	16:50	24 08:40 (WTG 04)	17:27	18:01	19:35	20:07					20:34	53 19:42 (WTG 02)
11	07:27	08:17 (WTG 04)	07:03	06:21	06:29	05:47					05:27	18:50 (WTG 02)
	16:51	24 08:41 (WTG 04)	17:29	18:02	19:36	20:08					20:34	53 19:43 (WTG 02)
12	07:27	08:17 (WTG 04)	07:01	06:20	06:28	05:46					05:27	18:50 (WTG 02)
	16:52	23 08:40 (WTG 04)	17:30	18:03	19:37	20:09					20:35	53 19:43 (WTG 02)
13	07:26	08:18 (WTG 04)	07:00	06:18	06:26	05:45					05:27	18:50 (WTG 02)
	16:53	23 08:41 (WTG 04)	17:31	18:04	19:38	20:10					20:35	54 19:44 (WTG 02)
14	07:26	08:19 (WTG 04)	06:59	06:16	06:25	05:44				19:07 (WTG 02)	05:27	18:50 (WTG 02)
	16:54	22 08:41 (WTG 04)	17:32	18:06	19:39	20:11	12	19:19 (WTG 02)		20:36	54 19:44 (WTG 02)	
15	07:26	08:20 (WTG 04)	06:57	06:15	06:23	05:43				19:03 (WTG 02)	05:27	18:50 (WTG 02)
	16:55	20 08:40 (WTG 04)	17:34	18:07	19:40	20:12	19	19:22 (WTG 02)		20:36	54 19:44 (WTG 02)	
16	07:25	08:21 (WTG 04)	06:56	06:13	06:21	05:42				19:01 (WTG 02)	05:27	18:50 (WTG 02)
	16:56	20 08:41 (WTG 04)	17:35	18:08	19:41	20:13	24	19:25 (WTG 02)		20:36	54 19:44 (WTG 02)	
17	07:25	08:22 (WTG 04)	06:55	06:11	06:20	05:41				19:00 (WTG 02)	05:27	18:51 (WTG 02)
	16:58	18 08:40 (WTG 04)	17:36	18:09	19:43	20:14	27	19:27 (WTG 02)		20:37	53 19:44 (WTG 02)	
18	07:24	08:23 (WTG 04)	06:53	06:10	06:18	05:40				18:58 (WTG 02)	05:27	18:51 (WTG 02)
	16:59	16 08:39 (WTG 04)	17:37	18:10	19:44	20:15	31	19:29 (WTG 02)		20:37	54 19:45 (WTG 02)	
19	07:24	08:25 (WTG 04)	06:52	06:08	06:17	05:39				18:57 (WTG 02)	05:27	18:51 (WTG 02)
	17:00	13 08:38 (WTG 04)	17:39	18:11	19:45	20:16	33	19:30 (WTG 02)		20:38	54 19:45 (WTG 02)	
20	07:23	08:26 (WTG 04)	06:51	06:06	06:15	05:38				18:55 (WTG 02)	05:27	18:52 (WTG 02)
	17:01	11 08:37 (WTG 04)	17:40	18:12	19:46	20:17	36	19:31 (WTG 02)		20:38	54 19:46 (WTG 02)	
21	07:22	08:29 (WTG 04)	06:49	06:04	06:14	05:37				18:54 (WTG 02)	05:27	18:52 (WTG 02)
	17:02	5 08:34 (WTG 04)	17:41	18:13	19:47	20:18	38	19:32 (WTG 02)		20:38	54 19:46 (WTG 02)	
22	07:22		06:48	06:03	06:12	05:37				18:54 (WTG 02)	05:27	18:52 (WTG 02)
	17:04		17:42	18:14	19:48	20:19	40	19:34 (WTG 02)		20:38	54 19:46 (WTG 02)	
23	07:21		06:46	06:01	06:11	05:36				18:53 (WTG 02)	05:28	18:52 (WTG 02)
	17:05		17:43	4 07:14 (7)	18:15	19:49	20:20	41	19:34 (WTG 02)	20:38	54 19:46 (WTG 02)	
24	07:20		06:45	07:09 (7)	05:59	06:09	05:35			18:52 (WTG 02)	05:28	18:53 (WTG 02)
	17:06		17:45	5 07:14 (7)	18:17	19:50	20:21	43	19:35 (WTG 02)	20:39	54 19:47 (WTG 02)	
25	07:20		06:43	07:09 (7)	05:58	06:08	05:34			18:51 (WTG 02)	05:28	18:53 (WTG 02)
	17:07		17:46	5 07:14 (7)	18:18	19:51	20:22	44	19:35 (WTG 02)	20:39	54 19:47 (WTG 02)	
26	07:19		06:42	07:10 (7)	05:56	06:06	05:34			18:51 (WTG 02)	05:28	18:53 (WTG 02)
	17:08		17:47	2 07:12 (7)	18:19	19:52	20:23	45	19:36 (WTG 02)	20:39	53 19:46 (WTG 02)	
27	07:18		06:40		05:54	06:05	05:33			18:51 (WTG 02)	05:29	18:53 (WTG 02)
	17:10		17:48		18:20	19:53	20:24	46	19:37 (WTG 02)	20:39	54 19:47 (WTG 02)	
28	07:17		06:39		05:53	06:04	05:32			18:51 (WTG 02)	05:29	18:53 (WTG 02)
	17:11		17:49		18:21	19:54	20:24	47	19:38 (WTG 02)	20:39	54 19:47 (WTG 02)	
29	07:16				06:51	06:02	05:32			18:50 (WTG 02)	05:30	18:53 (WTG 02)
	17:12				19:22	19:56	20:25	48	19:38 (WTG 02)	20:39	54 19:47 (WTG 02)	
30	07:16				06:49	06:01	05:31			18:50 (WTG 02)	05:30	18:54 (WTG 02)
	17:13				19:23	19:57	20:26	49	19:39 (WTG 02)	20:39	53 19:47 (WTG 02)	
31	07:15				06:48		05:31			18:50 (WTG 02)		
	17:15				19:24		20:27	49	19:39 (WTG 02)			
Ore potenziali eliofanìa	296		297	369	399	449				454		
Totale, caso peggiore	443		16			672				1592		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 107 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (397)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31	18:54 (WTG 02)	05:55	06:26	06:57	06:32	07:07
	20:39	53 19:47 (WTG 02)	20:19	19:36	18:45	16:57	24 08:23 (WTG 04)
2	05:31	18:54 (WTG 02)	05:56	06:27	06:58	06:33	07:08
	20:39	54 19:48 (WTG 02)	20:18	19:34	18:43	16:56	24 08:23 (WTG 04)
3	05:32	18:54 (WTG 02)	05:57	06:28	06:59	06:34	07:09
	20:38	53 19:47 (WTG 02)	20:17	19:32	18:41	16:55	25 08:24 (WTG 04)
4	05:32	18:55 (WTG 02)	05:58	06:29	07:00	06:35	07:10
	20:38	53 19:48 (WTG 02)	20:16	19:31	18:39	16:54	24 08:00 (WTG 04)
5	05:33	18:55 (WTG 02)	05:59	06:30	07:01	06:36	07:11
	20:38	52 19:47 (WTG 02)	20:15	19:29	18:38	16:52	25 08:25 (WTG 04)
6	05:33	18:55 (WTG 02)	06:00	06:31	07:02	06:38	07:12
	20:38	53 19:48 (WTG 02)	20:14	19:27	18:36	16:51	25 08:00 (WTG 04)
7	05:34	18:56 (WTG 02)	06:01	06:32	07:03	06:39	07:13
	20:37	52 19:48 (WTG 02)	20:12	19:26	18:34	16:50	25 08:26 (WTG 04)
8	05:34	18:56 (WTG 02)	06:02	06:33	07:04	06:40	07:14
	20:37	51 19:47 (WTG 02)	20:11	19:24	18:33	16:49	25 08:01 (WTG 04)
9	05:35	18:57 (WTG 02)	06:03	06:34	07:05	06:41	07:15
	20:37	51 19:48 (WTG 02)	20:10	19:22	18:31	16:48	25 08:02 (WTG 04)
10	05:36	18:57 (WTG 02)	06:04	06:35	07:06	06:42	07:16
	20:36	51 19:48 (WTG 02)	20:09	19:21	18:30	16:47	25 08:02 (WTG 04)
11	05:37	18:57 (WTG 02)	06:05	06:36	07:07	06:44	07:16
	20:36	50 19:47 (WTG 02)	20:07	19:19	18:28	16:46	25 08:27 (WTG 04)
12	05:37	18:58 (WTG 02)	06:06	06:37	07:09	06:45	07:17
	20:35	49 19:47 (WTG 02)	20:06	19:17	18:26	16:45	24 08:03 (WTG 04)
13	05:38	18:58 (WTG 02)	06:07	06:38	07:10	06:46	07:18
	20:35	49 19:47 (WTG 02)	20:05	19:15	18:25	16:44	25 08:27 (WTG 04)
14	05:39	18:59 (WTG 02)	06:08	06:39	07:11	06:47	07:19
	20:34	48 19:47 (WTG 02)	20:03	19:14	18:23	16:43	25 08:04 (WTG 04)
15	05:40	18:59 (WTG 02)	06:09	06:40	07:12	06:48	07:20
	20:34	47 19:46 (WTG 02)	20:02	19:12	18:22	16:42	24 08:29 (WTG 04)
16	05:40	19:00 (WTG 02)	06:10	06:41	07:13	06:50	07:20
	20:33	46 19:46 (WTG 02)	20:00	19:10	18:20	16:41	24 08:05 (WTG 04)
17	05:41	19:00 (WTG 02)	06:11	06:42	07:14	06:51	07:21
	20:33	46 19:46 (WTG 02)	19:59	19:09	18:18	16:40	25 08:30 (WTG 04)
18	05:42	19:01 (WTG 02)	06:12	06:43	07:15	06:52	07:22
	20:32	45 19:46 (WTG 02)	19:57	19:07	18:17	16:40	25 08:05 (WTG 04)
19	05:43	19:01 (WTG 02)	06:13	06:44	07:16	06:53	07:22
	20:31	43 19:44 (WTG 02)	19:56	19:05	18:15	16:39	25 08:30 (WTG 04)
20	05:44	19:02 (WTG 02)	06:14	06:45	07:17	06:54	07:23
	20:30	42 19:44 (WTG 02)	19:55	19:03	18:14	16:38	24 08:07 (WTG 04)
21	05:45	19:03 (WTG 02)	06:15	06:46	07:19	06:56	07:23
	20:30	40 19:43 (WTG 02)	19:53	19:02	18:12	16:37	4 08:07 (WTG 04)
22	05:45	19:04 (WTG 02)	06:16	06:47	07:20	06:57	4 08:09 (WTG 04)
	20:29	39 19:43 (WTG 02)	19:52	19:00	18:11	16:37	11 08:02 (WTG 04)
23	05:46	19:05 (WTG 02)	06:17	06:48	07:21	06:58	11 08:13 (WTG 04)
	20:28	37 19:42 (WTG 02)	19:50	18:58	18:09	16:36	13 08:01 (WTG 04)
24	05:47	19:06 (WTG 02)	06:18	06:49	07:22	06:59	13 08:14 (WTG 04)
	20:27	35 19:41 (WTG 02)	19:48	18:57	18:08	16:36	16 08:01 (WTG 04)
25	05:48	19:08 (WTG 02)	06:19	06:50	06:23	07:00	16 08:18 (WTG 04)
	20:26	32 19:40 (WTG 02)	19:47	18:55	17:07	16:35	18 08:00 (WTG 04)
26	05:49	19:09 (WTG 02)	06:20	06:51	06:24	07:01	18 08:18 (WTG 04)
	20:25	30 19:39 (WTG 02)	19:45	18:53	17:05	16:34	20 07:59 (WTG 04)
27	05:50	19:10 (WTG 02)	06:21	06:53	06:26	07:03	20 08:19 (WTG 04)
	20:24	26 19:36 (WTG 02)	19:44	18:51	17:04	16:34	20 08:00 (WTG 04)
28	05:51	19:12 (WTG 02)	06:22	06:54	06:27	07:04	20 08:19 (WTG 04)
	20:24	22 19:34 (WTG 02)	19:42	18:50	17:02	16:34	21 07:59 (WTG 04)
29	05:52	19:15 (WTG 02)	06:23	06:55	06:28	07:05	21 08:20 (WTG 04)
	20:23	17 19:32 (WTG 02)	19:41	18:48	17:01	16:33	23 08:13 (WTG 04)
30	05:53	19:19 (WTG 02)	06:24	06:56	06:29	07:06	23 08:21 (WTG 04)
	20:21	8 19:27 (WTG 02)	19:39	18:46	17:00	16:33	23 07:59 (WTG 04)
31	05:54		06:25		06:30		23 08:22 (WTG 04)
	20:20		19:37		16:59		25 07:27 (WTG 04)
Ore potenziali eliofanìa	460						25 16:40
Totale, caso peggiore	1274	429	375	345	17	297	761

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 108 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (413)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:13 (WTG 04)	07:14		06:37	06:46	05:59				05:30	18:59 (WTG 02)
	16:41	26 08:39 (WTG 04)	17:16		17:51	19:25	19:58				20:28	45 19:44 (WTG 02)
2	07:28	08:14 (WTG 04)	07:13		06:36	06:44	05:58				05:30	18:58 (WTG 02)
	16:42	25 08:39 (WTG 04)	17:17		17:52	19:26	19:59				20:28	46 19:44 (WTG 02)
3	07:28	08:14 (WTG 04)	07:12		06:34	06:42	05:57				05:29	18:58 (WTG 02)
	16:43	26 08:40 (WTG 04)	17:18		17:53	19:27	20:00				20:29	46 19:44 (WTG 02)
4	07:28	08:14 (WTG 04)	07:11		06:33	06:41	05:56				05:29	18:59 (WTG 02)
	16:44	26 08:40 (WTG 04)	17:20		17:54	19:28	20:01				20:30	46 19:45 (WTG 02)
5	07:28	08:15 (WTG 04)	07:10		06:31	06:39	05:54				05:28	18:58 (WTG 02)
	16:45	26 08:41 (WTG 04)	17:21		17:55	19:30	20:02				20:31	47 19:45 (WTG 02)
6	07:28	08:16 (WTG 04)	07:08		06:29	06:37	05:53				05:28	18:58 (WTG 02)
	16:46	25 08:41 (WTG 04)	17:22		17:56	19:31	20:03				20:31	47 19:45 (WTG 02)
7	07:28	08:16 (WTG 04)	07:07		06:28	06:36	05:52				05:28	18:59 (WTG 02)
	16:47	26 08:42 (WTG 04)	17:24		17:58	19:32	20:04				20:32	47 19:46 (WTG 02)
8	07:27	08:17 (WTG 04)	07:06		06:26	06:34	05:51				05:28	18:59 (WTG 02)
	16:48	25 08:42 (WTG 04)	17:25		17:59	19:33	20:05				20:32	48 19:47 (WTG 02)
9	07:27	08:17 (WTG 04)	07:05		06:24	06:33	05:49				05:27	18:58 (WTG 02)
	16:49	25 08:42 (WTG 04)	17:26		18:00	19:34	20:06				20:33	48 19:46 (WTG 02)
10	07:27	08:17 (WTG 04)	07:04		06:23	06:31	05:48				05:27	18:58 (WTG 02)
	16:50	26 08:43 (WTG 04)	17:27		18:01	19:35	20:07				20:34	49 19:47 (WTG 02)
11	07:27	08:18 (WTG 04)	07:03		06:21	06:29	05:47				05:27	18:58 (WTG 02)
	16:51	25 08:43 (WTG 04)	17:29		18:02	19:36	20:08				20:34	49 19:47 (WTG 02)
12	07:27	08:18 (WTG 04)	07:01		06:20	06:28	05:46				05:27	18:59 (WTG 02)
	16:52	25 08:43 (WTG 04)	17:30		18:03	19:37	20:09				20:35	48 19:47 (WTG 02)
13	07:26	08:19 (WTG 04)	07:00		06:18	06:26	05:45				05:27	18:59 (WTG 02)
	16:53	24 08:43 (WTG 04)	17:31		18:04	19:38	20:10				20:35	49 19:48 (WTG 02)
14	07:26	08:20 (WTG 04)	06:59		06:16	06:25	05:44				05:27	18:59 (WTG 02)
	16:54	23 08:43 (WTG 04)	17:32		18:06	19:39	20:11				20:36	49 19:48 (WTG 02)
15	07:26	08:21 (WTG 04)	06:57		06:15	06:23	05:43				05:27	18:59 (WTG 02)
	16:55	22 08:43 (WTG 04)	17:34		18:07	19:40	20:12				20:36	49 19:48 (WTG 02)
16	07:25	08:22 (WTG 04)	06:56		06:13	06:21	05:42			19:16 (WTG 02)	05:27	18:59 (WTG 02)
	16:56	21 08:43 (WTG 04)	17:35		18:08	19:41	20:13	7		19:23 (WTG 02)	20:36	50 19:49 (WTG 02)
17	07:25	08:23 (WTG 04)	06:55		06:11	06:20	05:41			19:12 (WTG 02)	05:27	18:59 (WTG 02)
	16:58	19 08:42 (WTG 04)	17:36		18:09	19:43	20:14	16		19:28 (WTG 02)	20:37	50 19:49 (WTG 02)
18	07:24	08:23 (WTG 04)	06:53		06:10	06:18	05:40			19:10 (WTG 02)	05:27	18:59 (WTG 02)
	16:59	19 08:42 (WTG 04)	17:37		18:10	19:44	20:15	20		19:30 (WTG 02)	20:37	50 19:49 (WTG 02)
19	07:24	08:25 (WTG 04)	06:52		06:08	06:17	05:39			19:08 (WTG 02)	05:27	18:59 (WTG 02)
	17:00	16 08:41 (WTG 04)	17:39		18:11	19:45	20:16	24		19:32 (WTG 02)	20:38	50 19:49 (WTG 02)
20	07:23	08:26 (WTG 04)	06:51		06:06	06:15	05:38			19:06 (WTG 02)	05:27	19:01 (WTG 02)
	17:01	14 08:40 (WTG 04)	17:40		18:12	19:46	20:17	28		19:34 (WTG 02)	20:38	49 19:50 (WTG 02)
21	07:22	08:28 (WTG 04)	06:49		06:04	06:14	05:37			19:04 (WTG 02)	05:27	19:01 (WTG 02)
	17:02	10 08:38 (WTG 04)	17:41		18:13	19:47	20:18	31		19:35 (WTG 02)	20:38	49 19:50 (WTG 02)
22	07:22	08:33 (WTG 04)	06:48		06:03	06:12	05:37			19:04 (WTG 02)	05:27	19:01 (WTG 02)
	17:04	3 08:36 (WTG 04)	17:42		18:14	19:48	20:19	33		19:37 (WTG 02)	20:38	49 19:50 (WTG 02)
23	07:21		06:46		06:01	06:11	05:36			19:03 (WTG 02)	05:28	19:01 (WTG 02)
	17:05		17:43		18:15	19:49	20:20	34		19:37 (WTG 02)	20:38	49 19:50 (WTG 02)
24	07:20		06:45	07:09 (7)	05:59	06:09	05:35			19:02 (WTG 02)	05:28	19:01 (WTG 02)
	17:06		17:45	3 07:12 (7)	18:17	19:50	20:21	36		19:38 (WTG 02)	20:39	50 19:51 (WTG 02)
25	07:20		06:43	07:08 (7)	05:58	06:08	05:34			19:01 (WTG 02)	05:28	19:01 (WTG 02)
	17:07		17:46	5 07:13 (7)	18:18	19:51	20:22	38		19:39 (WTG 02)	20:39	50 19:51 (WTG 02)
26	07:19		06:42	07:07 (7)	05:56	06:06	05:34			19:01 (WTG 02)	05:28	19:01 (WTG 02)
	17:08		17:47	6 07:13 (7)	18:19	19:52	20:23	39		19:40 (WTG 02)	20:39	50 19:51 (WTG 02)
27	07:18		06:40	07:08 (7)	05:54	06:05	05:33			19:00 (WTG 02)	05:29	19:02 (WTG 02)
	17:10		17:48	3 07:11 (7)	18:20	19:53	20:24	40		19:40 (WTG 02)	20:39	49 19:51 (WTG 02)
28	07:17		06:39		05:53	06:04	05:32			19:00 (WTG 02)	05:29	19:02 (WTG 02)
	17:11		17:49		18:21	19:54	20:24	41		19:41 (WTG 02)	20:39	49 19:51 (WTG 02)
29	07:16				06:51	06:02	05:32			18:59 (WTG 02)	05:30	19:02 (WTG 02)
	17:12				19:22	19:56	20:25	43		19:42 (WTG 02)	20:39	49 19:51 (WTG 02)
30	07:16				06:49	06:01	05:31			19:00 (WTG 02)	05:30	19:03 (WTG 02)
	17:13				19:23	19:57	20:26	43		19:43 (WTG 02)	20:39	49 19:52 (WTG 02)
31	07:15				06:48		05:31			18:59 (WTG 02)		
	17:15				19:24		20:27	44		19:43 (WTG 02)		
Ore potenziali eliofanìa	296				369	399	449				454	1455
Totale, caso peggiore	477		17				517					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
 Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 108 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (413)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:03 (WTG 02) 19:51 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:32
2	05:31 20:39	19:03 (WTG 02) 19:52 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:32
3	05:32 20:38	19:03 (WTG 02) 19:51 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:32
4	05:32 20:38	19:04 (WTG 02) 19:52 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	07:10 16:32
5	05:33 20:38	19:04 (WTG 02) 19:51 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	07:11 16:31
6	05:33 20:38	19:04 (WTG 02) 19:52 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	07:12 16:31
7	05:34 20:37	19:05 (WTG 02) 19:52 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	07:13 16:31
8	05:34 20:37	19:05 (WTG 02) 19:51 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	07:14 16:31
9	05:35 20:37	19:06 (WTG 02) 19:52 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	07:15 16:31
10	05:36 20:36	19:06 (WTG 02) 19:52 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	07:16 16:31
11	05:37 20:36	19:06 (WTG 02) 19:51 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	07:16 16:31
12	05:37 20:35	19:07 (WTG 02) 19:51 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	07:17 16:31
13	05:38 20:35	19:08 (WTG 02) 19:51 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	07:18 16:31
14	05:39 20:34	19:08 (WTG 02) 19:51 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	07:19 16:32
15	05:40 20:34	19:08 (WTG 02) 19:50 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	07:20 16:32
16	05:40 20:33	19:09 (WTG 02) 19:50 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	07:20 16:32
17	05:41 20:33	19:10 (WTG 02) 19:50 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	07:21 16:32
18	05:42 20:32	19:11 (WTG 02) 19:49 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	07:22 16:33
19	05:43 20:31	19:11 (WTG 02) 19:48 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	07:22 16:33
20	05:44 20:30	19:12 (WTG 02) 19:47 (WTG 02)	06:14 19:55	06:45 19:03	07:17 18:14	07:23 16:34
21	05:45 20:30	19:13 (WTG 02) 19:47 (WTG 02)	06:15 19:53	06:46 19:02	07:19 18:12	07:23 16:34
22	05:45 20:29	19:14 (WTG 02) 19:46 (WTG 02)	06:16 19:52	06:47 19:00	07:20 18:11	07:24 16:34
23	05:46 20:28	19:16 (WTG 02) 19:45 (WTG 02)	06:17 19:50	06:48 18:58	07:21 18:09	07:25 16:35
24	05:47 20:27	19:17 (WTG 02) 19:44 (WTG 02)	06:18 19:48	06:49 18:57	07:22 18:08	07:25 16:35
25	05:48 20:26	19:19 (WTG 02) 19:42 (WTG 02)	06:19 19:47	06:50 18:55	07:23 17:07	07:25 16:36
26	05:49 20:25	19:21 (WTG 02) 19:40 (WTG 02)	06:20 19:45	06:51 18:53	07:24 17:05	07:26 16:37
27	05:50 20:24	19:23 (WTG 02) 19:36 (WTG 02)	06:21 19:44	06:53 18:51	07:26 17:04	07:26 16:37
28	05:51 20:24		06:22 19:42	06:54 18:50	07:27 17:02	07:26 16:38
29	05:52 20:23		06:23 19:41	06:55 18:48	07:28 17:01	07:27 16:39
30	05:53 20:21		06:24 19:39	06:56 18:46	07:29 17:00	07:27 16:40
31	05:54 20:20		06:25 19:37		07:30 16:59	07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	1058			16	196	791

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 109 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (414)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno		
1	07:27	08:10 (WTG 04)	07:14	06:37	06:46	05:59					05:30	19:15 (WTG 02)	
	16:41	24 08:34 (WTG 04)	17:16	17:51	19:25	19:58					20:28	31 19:46 (WTG 02)	
2	07:28	08:10 (WTG 04)	07:13	06:36	06:44	05:58					05:30	19:14 (WTG 02)	
	16:42	25 08:35 (WTG 04)	17:17	17:52	19:26	19:59					20:28	32 19:46 (WTG 02)	
3	07:28	08:11 (WTG 04)	07:12	06:34	06:42	05:57					05:29	19:14 (WTG 02)	
	16:43	25 08:36 (WTG 04)	17:18	17:53	19:27	20:00					20:29	33 19:47 (WTG 02)	
4	07:28	08:11 (WTG 04)	07:11	06:33	06:41	05:56					05:29	19:14 (WTG 02)	
	16:44	25 08:36 (WTG 04)	17:20	17:54	19:28	20:01					20:30	34 19:48 (WTG 02)	
5	07:28	08:11 (WTG 04)	07:10	06:31	06:39	05:54					05:28	19:12 (WTG 02)	
	16:45	26 08:37 (WTG 04)	17:21	17:55	19:30	20:02					20:31	36 19:48 (WTG 02)	
6	07:28	08:12 (WTG 04)	07:08	06:29	06:37	05:53					05:28	19:12 (WTG 02)	
	16:46	25 08:37 (WTG 04)	17:22	17:56	19:31	20:03					20:31	37 19:49 (WTG 02)	
7	07:28	08:12 (WTG 04)	07:07	06:28	06:36	05:52					05:28	19:12 (WTG 02)	
	16:47	26 08:38 (WTG 04)	17:24	17:58	19:32	20:04					20:32	38 19:50 (WTG 02)	
8	07:27	08:13 (WTG 04)	07:06	06:26	06:34	05:51					05:28	19:12 (WTG 02)	
	16:48	26 08:39 (WTG 04)	17:25	17:59	19:33	20:05					20:32	39 19:51 (WTG 02)	
9	07:27	08:12 (WTG 04)	07:05	06:24	06:33	05:49					05:27	19:12 (WTG 02)	
	16:49	26 08:38 (WTG 04)	17:26	18:00	19:34	20:06					20:33	38 19:50 (WTG 02)	
10	07:27	08:13 (WTG 04)	07:04	06:23	06:31	05:48					05:27	19:12 (WTG 02)	
	16:50	26 08:39 (WTG 04)	17:27	18:01	19:35	20:07					20:34	39 19:51 (WTG 02)	
11	07:27	08:14 (WTG 04)	07:03	06:21	06:29	05:47					05:27	19:12 (WTG 02)	
	16:51	26 08:40 (WTG 04)	17:29	18:02	19:36	20:08					20:34	40 19:52 (WTG 02)	
12	07:27	08:13 (WTG 04)	07:01	06:20	06:28	05:46					05:27	19:12 (WTG 02)	
	16:52	27 08:40 (WTG 04)	17:30	18:03	19:37	20:09					20:35	40 19:52 (WTG 02)	
13	07:26	08:14 (WTG 04)	07:00	06:18	06:26	05:45					05:27	19:12 (WTG 02)	
	16:53	26 08:40 (WTG 04)	17:31	18:04	19:38	20:10					20:35	41 19:53 (WTG 02)	
14	07:26	08:15 (WTG 04)	06:59	06:16	06:25	05:44					05:27	19:12 (WTG 02)	
	16:54	26 08:41 (WTG 04)	17:32	18:06	19:39	20:11					20:36	41 19:53 (WTG 02)	
15	07:26	08:15 (WTG 04)	06:57	06:15	06:23	05:43					05:27	19:12 (WTG 02)	
	16:55	26 08:41 (WTG 04)	17:34	18:07	19:40	20:12					20:36	41 19:53 (WTG 02)	
16	07:25	08:16 (WTG 04)	06:56	06:13	06:21	05:42					05:27	19:12 (WTG 02)	
	16:56	25 08:41 (WTG 04)	17:35	18:08	19:41	20:13					20:36	42 19:54 (WTG 02)	
17	07:25	08:17 (WTG 04)	06:55	06:11	06:20	05:41					05:27	19:12 (WTG 02)	
	16:58	24 08:41 (WTG 04)	17:36	18:09	19:43	20:14					20:37	42 19:54 (WTG 02)	
18	07:24	08:17 (WTG 04)	06:53	06:10	06:18	05:40					05:27	19:12 (WTG 02)	
	16:59	23 08:40 (WTG 04)	17:37	18:10	19:44	20:15					20:37	42 19:54 (WTG 02)	
19	07:24	08:18 (WTG 04)	06:52	06:08	06:17	05:39					05:27	19:12 (WTG 02)	
	17:00	23 08:41 (WTG 04)	17:39	18:11	19:45	20:16					20:38	42 19:54 (WTG 02)	
20	07:23	08:19 (WTG 04)	06:51	06:06	06:15	05:38					05:27	19:13 (WTG 02)	
	17:01	21 08:40 (WTG 04)	17:40	18:12	19:46	20:17					20:38	42 19:55 (WTG 02)	
21	07:22	08:20 (WTG 04)	06:49	06:04	06:14	05:37					05:27	19:13 (WTG 02)	
	17:02	19 08:39 (WTG 04)	17:41	18:13	19:47	20:18					20:38	42 19:55 (WTG 02)	
22	07:22	08:21 (WTG 04)	06:48	06:03	06:12	05:37					05:27	19:13 (WTG 02)	
	17:04	18 08:39 (WTG 04)	17:42	18:14	19:48	20:19					20:38	42 19:55 (WTG 02)	
23	07:21	08:23 (WTG 04)	06:46	06:01	06:11	05:36					05:28	19:13 (WTG 02)	
	17:05	15 08:38 (WTG 04)	17:43	18:15	19:49	20:20					20:38	42 19:55 (WTG 02)	
24	07:20	08:24 (WTG 04)	06:45	05:59	06:09	05:35					05:28	19:14 (WTG 02)	
	17:06	12 08:36 (WTG 04)	17:45	18:17	19:50	20:21					20:39	42 19:56 (WTG 02)	
25	07:20	08:27 (WTG 04)	06:43	05:58	06:08	05:34					19:25 (WTG 02)	05:28	19:14 (WTG 02)
	17:07	7 08:34 (WTG 04)	17:46	18:18	19:51	20:22				8	19:33 (WTG 02)	20:39	42 19:56 (WTG 02)
26	07:19		06:42	05:56	06:06	05:34					19:22 (WTG 02)	05:28	19:14 (WTG 02)
	17:08		17:47	18:19	19:52	20:23				15	19:37 (WTG 02)	20:39	42 19:56 (WTG 02)
27	07:18		06:40	05:54	06:05	05:33					19:20 (WTG 02)	05:29	19:15 (WTG 02)
	17:10		17:48	18:20	19:53	20:24				19	19:39 (WTG 02)	20:39	42 19:57 (WTG 02)
28	07:17		06:39	05:53	06:04	05:32					19:19 (WTG 02)	05:29	19:15 (WTG 02)
	17:11		17:49	18:21	19:54	20:24				22	19:41 (WTG 02)	20:39	41 19:56 (WTG 02)
29	07:16			06:51	06:02	05:32					19:17 (WTG 02)	05:30	19:15 (WTG 02)
	17:12			19:22	19:56	20:25				25	19:42 (WTG 02)	20:39	41 19:56 (WTG 02)
30	07:16			06:49	06:01	05:31					19:17 (WTG 02)	05:30	19:16 (WTG 02)
	17:13			19:23	19:57	20:26				27	19:44 (WTG 02)	20:39	40 19:56 (WTG 02)
31	07:15			06:48		05:31					19:15 (WTG 02)		
	17:15			19:24		20:27				29	19:44 (WTG 02)		
Ore potenziali eliofanìa	296											454	
Totale, caso peggiore	572		297	16	369	399	449	145				1186	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 109 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (414)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39 40	19:16 (WTG 02) 19:56 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:32 26
2	05:31 20:39 39	19:17 (WTG 02) 19:56 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:32 26
3	05:32 20:38 39	19:17 (WTG 02) 19:56 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:32 27
4	05:32 20:38 38	19:18 (WTG 02) 19:56 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	07:10 16:32 26
5	05:33 20:38 38	19:17 (WTG 02) 19:55 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	07:11 16:31 26
6	05:33 20:38 38	19:18 (WTG 02) 19:56 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	07:12 16:31 26
7	05:34 20:37 37	19:19 (WTG 02) 19:56 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	07:13 16:31 26
8	05:34 20:37 36	19:19 (WTG 02) 19:55 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	07:14 16:31 25
9	05:35 20:37 34	19:21 (WTG 02) 19:55 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	07:15 16:31 25
10	05:36 20:36 33	19:22 (WTG 02) 19:55 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	07:16 16:31 25
11	05:37 20:36 31	19:22 (WTG 02) 19:53 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	07:16 16:31 24
12	05:37 20:35 30	19:23 (WTG 02) 19:53 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	07:17 16:31 24
13	05:38 20:35 28	19:24 (WTG 02) 19:52 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	07:18 16:31 24
14	05:39 20:34 26	19:26 (WTG 02) 19:52 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	07:19 16:32 24
15	05:40 20:34 24	19:26 (WTG 02) 19:50 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	07:20 16:32 24
16	05:40 20:33 21	19:28 (WTG 02) 19:49 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	07:20 16:32 23
17	05:41 20:33 17	19:30 (WTG 02) 19:47 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	07:21 16:32 23
18	05:42 20:32 12	19:33 (WTG 02) 19:45 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	07:22 16:33 23
19	05:43 20:31	19:45 (WTG 02)	06:13	06:44	07:16	07:22
20	05:44 20:30	19:45 (WTG 02)	06:14	06:45	07:17	07:23
21	05:45 20:30	19:45 (WTG 02)	06:15	06:46	07:19	07:23
22	05:45 20:29	19:45 (WTG 02)	06:16	06:47	07:20	07:24
23	05:46 20:28	19:45 (WTG 02)	06:17	06:48	07:21	07:24
24	05:47 20:27	19:45 (WTG 02)	06:18	06:49	07:22	07:25
25	05:48 20:26	19:45 (WTG 02)	06:19	06:50	07:23	07:25
26	05:49 20:25	19:45 (WTG 02)	06:20	06:51	07:24	07:26
27	05:50 20:24	19:45 (WTG 02)	06:21	06:53	07:25	07:26
28	05:51 20:24	19:45 (WTG 02)	06:22	06:54	07:26	07:26
29	05:52 20:23	19:45 (WTG 02)	06:23	06:55	07:28	07:27
30	05:53 20:21	19:45 (WTG 02)	06:24	06:56	07:29	07:27
31	05:54 20:20	19:45 (WTG 02)	06:25	06:57	07:30	07:27
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	561			17	291	746

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

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Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 110 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (415)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	08:13 (WTG 04) 08:38 (WTG 04)	07:14 17:16			
2	07:28 16:42	08:13 (WTG 04) 08:39 (WTG 04)	07:13 17:17			
3	07:28 16:43	08:13 (WTG 04) 08:39 (WTG 04)	07:12 17:18			
4	07:28 16:44	08:14 (WTG 04) 08:40 (WTG 04)	07:11 17:20			
5	07:28 16:45	08:14 (WTG 04) 08:40 (WTG 04)	07:10 17:21			
6	07:28 16:46	08:15 (WTG 04) 08:41 (WTG 04)	07:08 17:22			
7	07:28 16:47	08:15 (WTG 04) 08:42 (WTG 04)	07:07 17:24			
8	07:27 16:48	08:16 (WTG 04) 08:42 (WTG 04)	07:06 17:25			
9	07:27 16:49	08:16 (WTG 04) 08:42 (WTG 04)	07:05 17:26			
10	07:27 16:50	08:16 (WTG 04) 08:42 (WTG 04)	07:04 17:27			
11	07:27 16:51	08:17 (WTG 04) 08:43 (WTG 04)	07:03 17:29			
12	07:27 16:52	08:17 (WTG 04) 08:43 (WTG 04)	07:01 17:30			
13	07:26 16:53	08:18 (WTG 04) 08:43 (WTG 04)	07:00 17:31			
14	07:26 16:54	08:19 (WTG 04) 08:44 (WTG 04)	06:59 17:32			
15	07:26 16:55	08:19 (WTG 04) 08:43 (WTG 04)	06:57 17:34			
16	07:25 16:56	08:20 (WTG 04) 08:44 (WTG 04)	06:56 17:35			
17	07:25 16:58	08:21 (WTG 04) 08:43 (WTG 04)	06:55 17:36			
18	07:24 16:59	08:21 (WTG 04) 08:43 (WTG 04)	06:53 17:37			
19	07:24 17:00	08:23 (WTG 04) 08:43 (WTG 04)	06:52 17:39			
20	07:23 17:01	08:23 (WTG 04) 08:42 (WTG 04)	06:51 17:40			
21	07:22 17:02	08:24 (WTG 04) 08:41 (WTG 04)	06:49 17:41			
22	07:22 17:04	08:27 (WTG 04) 08:40 (WTG 04)	06:48 17:42			
23	07:21 17:05	08:29 (WTG 04) 08:38 (WTG 04)	06:46 17:43			
24	07:20 17:06		06:45			
25	07:20 17:07		06:43			
26	07:19 17:08		06:42			
27	07:18 17:10		06:40			
28	07:17 17:11		06:39			
29	07:16 17:12		06:37			
30	07:16 17:13		06:39			
31	07:15 17:15		06:48			
			19:24			
Ore potenziali eliofanìa	296	297	369	399	449	454
Totale, caso peggiore	532	122	69		309	1323

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 110 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (415)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:10 (WTG 02) 19:54 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57
2	05:31 20:39	19:10 (WTG 02) 19:55 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:56
3	05:32 20:38	19:10 (WTG 02) 19:54 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:55
4	05:32 20:38	19:11 (WTG 02) 19:55 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	07:10 16:54
5	05:33 20:38	19:11 (WTG 02) 19:54 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	07:11 16:52
6	05:33 20:38	19:12 (WTG 02) 19:54 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	07:12 16:51
7	05:34 20:37	19:13 (WTG 02) 19:54 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	07:13 16:50
8	05:34 20:37	19:13 (WTG 02) 19:54 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	07:14 16:49
9	05:35 20:37	19:13 (WTG 02) 19:54 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	07:15 16:48
10	05:36 20:36	19:14 (WTG 02) 19:54 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	07:16 16:47
11	05:37 20:36	19:14 (WTG 02) 19:53 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	07:16 16:46
12	05:37 20:35	19:15 (WTG 02) 19:53 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	07:17 16:45
13	05:38 20:35	19:15 (WTG 02) 19:53 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	07:18 16:44
14	05:39 20:34	19:17 (WTG 02) 19:53 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	07:19 16:43
15	05:40 20:34	19:17 (WTG 02) 19:51 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	07:20 16:42
16	05:40 20:33	19:18 (WTG 02) 19:51 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	07:20 16:41
17	05:41 20:33	19:19 (WTG 02) 19:50 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	07:21 16:40
18	05:42 20:32	19:21 (WTG 02) 19:49 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	07:22 16:40
19	05:43 20:31	19:21 (WTG 02) 19:48 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	07:22 16:39
20	05:44 20:30	19:23 (WTG 02) 19:46 (WTG 02)	06:14 19:55	06:45 19:03	07:17 18:14	07:23 16:38
21	05:45 20:30	19:25 (WTG 02) 19:45 (WTG 02)	06:15 19:53	06:46 19:02	07:19 18:12	07:23 16:37
22	05:45 20:29	19:27 (WTG 02) 19:43 (WTG 02)	06:16 19:52	06:47 19:00	07:20 18:11	07:24 16:37
23	05:46 20:28	19:31 (WTG 02) 19:40 (WTG 02)	06:17 19:50	06:48 18:58	07:21 18:09	07:24 16:36
24	05:47 20:27	19:31 (WTG 02) 19:40 (WTG 02)	06:18 19:50	06:49 18:58	07:22 18:08	07:25 16:36
25	05:48 20:26	19:31 (WTG 02) 19:40 (WTG 02)	06:19 19:50	06:50 18:57	07:23 18:08	07:25 16:36
26	05:49 20:25	19:32 (WTG 02) 19:41 (WTG 02)	06:20 19:51	06:51 18:56	07:24 18:07	07:26 16:35
27	05:50 20:24	19:33 (WTG 02) 19:42 (WTG 02)	06:21 19:52	06:52 18:55	07:25 18:06	07:26 16:35
28	05:51 20:24	19:34 (WTG 02) 19:43 (WTG 02)	06:22 19:53	06:53 18:54	07:26 18:05	07:27 16:34
29	05:52 20:23	19:35 (WTG 02) 19:44 (WTG 02)	06:23 19:54	06:54 18:53	07:27 18:04	07:27 16:34
30	05:53 20:21	19:36 (WTG 02) 19:45 (WTG 02)	06:24 19:55	06:55 18:52	07:28 18:03	07:27 16:33
31	05:54 20:20	19:37 (WTG 02) 19:46 (WTG 02)	06:25 19:56	06:56 18:51	07:29 18:02	07:27 16:33
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	796			187	246	789

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 111 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (416)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno			
1	07:27	08:12 (WTG 04)	07:14	06:37	07:18 (WTG 05)	06:46	05:59	05:30	19:09 (WTG 02)					
	16:41	26	08:38 (WTG 04)	17:16	17:51	19:25	19:58	20:28	37	19:46 (WTG 02)				
2	07:28	08:12 (WTG 04)	07:13	06:36	07:19 (WTG 05)	06:44	05:58	05:30	19:08 (WTG 02)					
	16:42	26	08:38 (WTG 04)	17:17	17:52	19:26	19:59	20:28	38	19:46 (WTG 02)				
3	07:28	08:13 (WTG 04)	07:12	06:34	07:19 (WTG 05)	06:42	05:57	05:29	19:08 (WTG 02)					
	16:43	26	08:39 (WTG 04)	17:18	17:53	19:27	20:00	20:29	39	19:47 (WTG 02)				
4	07:28	08:13 (WTG 04)	07:11	06:33	07:20 (WTG 05)	06:41	05:56	05:29	19:08 (WTG 02)					
	16:44	26	08:39 (WTG 04)	17:20	17:54	19:28	20:01	20:30	40	19:48 (WTG 02)				
5	07:28	08:14 (WTG 04)	07:10	06:31	07:22 (WTG 05)	06:39	05:54	05:28	19:07 (WTG 02)					
	16:45	26	08:40 (WTG 04)	17:21	17:55	19:30	20:02	20:31	40	19:47 (WTG 02)				
6	07:28	08:14 (WTG 04)	07:08	06:29	07:30 (WTG 05)	06:37	05:53	05:28	19:07 (WTG 02)					
	16:46	26	08:40 (WTG 04)	17:22	17:56	19:31	20:03	20:31	41	19:48 (WTG 02)				
7	07:28	08:15 (WTG 04)	07:07	06:28		06:36	05:52	05:28	19:07 (WTG 02)					
	16:47	26	08:41 (WTG 04)	17:24	17:58	19:32	20:04	20:32	42	19:49 (WTG 02)				
8	07:27	08:15 (WTG 04)	07:06	06:26		06:34	05:51	05:28	19:07 (WTG 02)					
	16:48	27	08:42 (WTG 04)	17:25	17:59	19:33	20:05	20:32	43	19:50 (WTG 02)				
9	07:27	08:15 (WTG 04)	07:05	06:24		06:33	05:49	05:27	19:07 (WTG 02)					
	16:49	26	08:41 (WTG 04)	17:26	18:00	19:34	20:06	20:33	42	19:49 (WTG 02)				
10	07:27	08:16 (WTG 04)	07:04	06:23		06:31	05:48	05:27	19:07 (WTG 02)					
	16:50	26	08:42 (WTG 04)	17:27	18:01	19:35	20:07	20:34	43	19:50 (WTG 02)				
11	07:27	08:16 (WTG 04)	07:03	06:21		06:29	05:47	05:27	19:07 (WTG 02)					
	16:51	27	08:43 (WTG 04)	17:29	18:02	19:36	20:08	20:34	43	19:50 (WTG 02)				
12	07:27	08:16 (WTG 04)	07:01	06:20		06:28	05:46	05:27	19:07 (WTG 02)					
	16:52	26	08:42 (WTG 04)	17:30	18:03	19:37	20:09	20:35	44	19:51 (WTG 02)				
13	07:26	08:17 (WTG 04)	07:00	06:18		06:26	05:45	05:27	19:07 (WTG 02)					
	16:53	26	08:43 (WTG 04)	17:31	18:04	19:38	20:10	20:35	44	19:51 (WTG 02)				
14	07:26	08:18 (WTG 04)	06:59	06:16		06:25	05:44	05:27	19:07 (WTG 02)					
	16:54	25	08:43 (WTG 04)	17:32	18:06	19:39	20:11	20:36	45	19:52 (WTG 02)				
15	07:26	08:18 (WTG 04)	06:57	06:15		06:23	05:43	05:27	19:07 (WTG 02)					
	16:55	25	08:43 (WTG 04)	17:34	18:07	19:40	20:12	20:36	45	19:52 (WTG 02)				
16	07:25	08:19 (WTG 04)	06:56	06:13		06:21	05:42	05:27	19:07 (WTG 02)					
	16:56	24	08:43 (WTG 04)	17:35	18:08	19:41	20:13	20:36	45	19:52 (WTG 02)				
17	07:25	08:20 (WTG 04)	06:55	06:11		06:20	05:41	05:27	19:07 (WTG 02)					
	16:58	23	08:43 (WTG 04)	17:36	18:09	19:43	20:14	20:37	45	19:52 (WTG 02)				
18	07:24	08:20 (WTG 04)	06:53	06:10		06:18	05:40	05:27	19:07 (WTG 02)					
	16:59	22	08:42 (WTG 04)	17:37	18:10	19:44	20:15	20:37	45	19:52 (WTG 02)				
19	07:24	08:22 (WTG 04)	06:52	06:08		06:17	05:39	05:27	19:07 (WTG 02)					
	17:00	21	08:43 (WTG 04)	17:39	18:11	19:45	20:16	20:38	46	19:53 (WTG 02)				
20	07:23	08:22 (WTG 04)	06:51	06:06		06:15	05:38	05:27	19:09 (WTG 02)					
	17:01	20	08:42 (WTG 04)	17:40	18:12	19:46	20:17	20:38	45	19:54 (WTG 02)				
21	07:22	08:23 (WTG 04)	06:49	06:04		06:14	05:37	05:27	19:09 (WTG 02)					
	17:02	18	08:41 (WTG 04)	17:41	18:13	19:47	20:18	20:38	45	19:54 (WTG 02)				
22	07:22	08:26 (WTG 04)	06:48	06:03		06:12	05:37	05:27	19:09 (WTG 02)					
	17:04	14	08:40 (WTG 04)	17:42	07:31 (WTG 05)	18:14	19:48	20:19	13	19:33 (WTG 02)	20:38	45		
23	07:21	08:27 (WTG 04)	06:46	06:01		06:11	05:36	05:28	19:09 (WTG 02)					
	17:05	12	08:39 (WTG 04)	17:43	07:34 (WTG 05)	18:15	19:49	20:20	18	19:35 (WTG 02)	20:38	45		
24	07:20	08:30 (WTG 04)	06:45	05:59		06:09	05:35	05:28	19:09 (WTG 02)					
	17:06	6	08:36 (WTG 04)	17:45	07:35 (WTG 05)	18:17	19:50	20:21	22	19:37 (WTG 02)	20:39	46		
25	07:20		06:43	05:58		06:08	05:34	05:28	19:09 (WTG 02)					
	17:07		17:46	18:18	07:08 (7)	18:18	19:51	20:22	25	19:38 (WTG 02)	20:39	45		
26	07:19		06:42	05:56		06:06	05:34	05:28	19:09 (WTG 02)					
	17:08		17:47	18:19	07:06 (7)	18:19	19:52	20:23	27	19:40 (WTG 02)	20:39	45		
27	07:18		06:40	05:54		06:05	05:33	05:29	19:10 (WTG 02)					
	17:10		17:48	18:20	07:05 (7)	18:20	19:53	20:24	30	19:41 (WTG 02)	20:39	45		
28	07:17		06:39	05:53		06:04	05:32	05:29	19:10 (WTG 02)					
	17:11		17:49	18:21	07:06 (7)	18:21	19:54	20:24	31	19:42 (WTG 02)	20:39	45		
29	07:16			06:51		06:02	05:32	05:30	19:10 (WTG 02)					
	17:12			19:22		19:56	20:25	20:39	33	19:43 (WTG 02)	20:39	44		
30	07:16			06:49		06:01	05:31	05:30	19:10 (WTG 02)					
	17:13			19:23		19:57	20:26	20:39	34	19:44 (WTG 02)	20:39	44		
31	07:15			06:48			05:31	05:30	19:09 (WTG 02)					
	17:15			19:24			20:27	20:39	35	19:44 (WTG 02)				
Ore potenziali eliofanìa	296													
Totale, caso peggiore	550		297		118		369		399		449	269	454	1301

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 111 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (416)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:11 (WTG 02) 19:55 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57
2	05:31 20:39	44 19:12 (WTG 02) 19:55 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	27 07:08 16:32
3	05:32 20:38	43 19:12 (WTG 02) 19:55 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	26 07:09 16:32
4	05:32 20:38	43 19:12 (WTG 02) 19:55 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	27 07:10 16:32
5	05:33 20:38	42 19:12 (WTG 02) 19:54 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	26 07:11 16:31
6	05:33 20:38	42 19:13 (WTG 02) 19:55 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	26 07:12 16:31
7	05:34 20:37	41 19:14 (WTG 02) 19:55 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	26 07:13 16:31
8	05:34 20:37	40 19:14 (WTG 02) 19:54 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	26 07:14 16:31
9	05:35 20:37	39 19:15 (WTG 02) 19:54 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	11 07:15 16:31
10	05:36 20:36	38 19:16 (WTG 02) 19:54 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	14 07:16 16:31
11	05:37 20:36	37 19:16 (WTG 02) 19:53 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	16 07:16 16:31
12	05:37 20:35	36 19:17 (WTG 02) 19:53 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	17 07:17 16:31
13	05:38 20:35	35 19:18 (WTG 02) 19:53 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	18 07:18 16:31
14	05:39 20:34	34 19:19 (WTG 02) 19:53 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	23 07:19 16:32
15	05:40 20:34	32 19:19 (WTG 02) 19:51 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	23 07:20 16:32
16	05:40 20:33	31 19:20 (WTG 02) 19:51 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	21 07:20 16:32
17	05:41 20:33	29 19:21 (WTG 02) 19:50 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	15 07:21 16:32
18	05:42 20:32	26 19:23 (WTG 02) 19:49 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	14 07:22 16:40
19	05:43 20:31	24 19:23 (WTG 02) 19:47 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	10 07:22 16:33
20	05:44 20:30	21 19:25 (WTG 02) 19:46 (WTG 02)	06:14 19:55	06:45 19:03	07:17 18:14	14 07:23 16:34
21	05:45 20:30	16 19:28 (WTG 02) 19:44 (WTG 02)	06:15 19:53	06:46 19:02	07:19 18:12	18 07:23 16:34
22	05:45 20:29	10 19:31 (WTG 02) 19:41 (WTG 02)	06:16 19:52	06:47 19:00	07:20 18:11	20 07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	07:21 18:08	21 07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	07:22 18:08	22 07:25 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	07:23 17:07	23 07:25 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:24 17:05	23 07:26 16:37
27	05:50 20:24	06:21 19:44	06:53 18:51	07:25 17:04	07:25 17:04	25 07:26 16:37
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 17:02	07:26 17:02	25 07:27 16:38
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 17:01	07:27 17:01	26 07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	07:28 17:00	07:28 17:00	26 07:27 16:40
31	05:54 20:20	06:25 19:37	06:57 16:59	07:29 16:59	07:29 16:59	25 07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	746			186	261	778

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 112 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (417)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		08:13 (WTG 04)	07:14		06:37		06:46		05:59		05:30
	16:41	26	08:39 (WTG 04)	17:16		17:51	18	07:36 (WTG 05)	19:25	19:58		20:28
2	07:28		08:13 (WTG 04)	07:13		06:36		06:44		05:58		05:30
	16:42	26	08:39 (WTG 04)	17:17		17:52	17	07:36 (WTG 05)	19:26	19:59		20:28
3	07:28		08:14 (WTG 04)	07:12		06:34		06:42		05:57		05:29
	16:43	26	08:40 (WTG 04)	17:18		17:53	16	07:35 (WTG 05)	19:27	20:00		20:29
4	07:28		08:14 (WTG 04)	07:11		06:33		06:41		05:56		05:29
	16:44	26	08:40 (WTG 04)	17:20		17:54	14	07:34 (WTG 05)	19:28	20:01		20:30
5	07:28		08:15 (WTG 04)	07:10		06:31		06:39		05:54		05:28
	16:45	26	08:41 (WTG 04)	17:21		17:55	11	07:32 (WTG 05)	19:30	20:02		20:31
6	07:28		08:15 (WTG 04)	07:08		06:29		06:37		05:53		05:28
	16:46	27	08:42 (WTG 04)	17:22		17:56	2	07:27 (WTG 05)	19:31	20:03		20:31
7	07:28		08:16 (WTG 04)	07:07		06:28		06:36		05:52		05:28
	16:47	26	08:42 (WTG 04)	17:24		17:58		19:32		20:04		20:32
8	07:27		08:16 (WTG 04)	07:06		06:26		06:34		05:51		05:28
	16:48	27	08:43 (WTG 04)	17:25		17:59		19:33		20:05		20:32
9	07:27		08:16 (WTG 04)	07:05		06:24		06:33		05:49		05:27
	16:49	27	08:43 (WTG 04)	17:26		18:00		19:34		20:06		20:33
10	07:27		08:17 (WTG 04)	07:04		06:23		06:31		05:48		05:27
	16:50	26	08:43 (WTG 04)	17:27		18:01		19:35		20:07		20:34
11	07:27		08:17 (WTG 04)	07:03		06:21		06:29		05:47		05:27
	16:51	27	08:44 (WTG 04)	17:29		18:02		19:36		20:08		20:34
12	07:27		08:17 (WTG 04)	07:01		06:20		06:28		05:46		05:27
	16:52	26	08:43 (WTG 04)	17:30		18:03		19:37		20:09		20:35
13	07:26		08:18 (WTG 04)	07:00		06:18		06:26		05:45		05:27
	16:53	26	08:44 (WTG 04)	17:31		18:04		19:38		20:10		20:35
14	07:26		08:19 (WTG 04)	06:59		06:16		06:25		05:44		05:27
	16:54	26	08:45 (WTG 04)	17:32		18:06		19:39		20:11		20:36
15	07:26		08:19 (WTG 04)	06:57		06:15		06:23		05:43		05:27
	16:55	25	08:44 (WTG 04)	17:34		18:07		19:40		20:12		20:36
16	07:25		08:20 (WTG 04)	06:56		06:13		06:21		05:42		05:27
	16:56	25	08:45 (WTG 04)	17:35		18:08		19:41		20:13		20:36
17	07:25		08:21 (WTG 04)	06:55		06:11		06:20		05:41		05:27
	16:58	23	08:44 (WTG 04)	17:36		18:09		19:43		20:14		20:37
18	07:24		08:21 (WTG 04)	06:53		06:10		06:18		05:40		05:27
	16:59	23	08:44 (WTG 04)	17:37		18:10		19:44		20:15		20:37
19	07:24		08:23 (WTG 04)	06:52		06:08		06:17		05:39		05:27
	17:00	21	08:44 (WTG 04)	17:39		18:11		19:45		20:16		20:38
20	07:23		08:23 (WTG 04)	06:51		06:06		06:15		05:38		05:27
	17:01	20	08:43 (WTG 04)	17:40		18:12		19:46		20:17		20:38
21	07:22		08:24 (WTG 04)	06:49		06:04		06:14		05:37		05:27
	17:02	18	08:42 (WTG 04)	17:41		18:13		19:47		20:18		20:38
22	07:22		08:26 (WTG 04)	06:48		06:03		06:12		05:37		05:27
	17:04	16	08:42 (WTG 04)	17:42		18:14		19:48		20:19	11	19:32 (WTG 02)
23	07:21		08:28 (WTG 04)	06:46		06:01		06:11		05:36		05:28
	17:05	12	08:40 (WTG 04)	17:43		18:15		19:49		20:20	17	19:35 (WTG 02)
24	07:20		08:30 (WTG 04)	06:45		05:59		06:09		05:35		05:28
	17:06	8	08:38 (WTG 04)	17:45		18:17		19:50		20:21	20	19:36 (WTG 02)
25	07:20			06:43		05:58		06:08		05:34		05:28
	17:07			17:46	16	07:36 (WTG 05)		19:51		20:22	24	19:38 (WTG 02)
26	07:19			06:42		05:56		06:06		05:34		05:28
	17:08			17:47	22	07:36 (WTG 05)		19:52		20:23	27	19:40 (WTG 02)
27	07:18			06:40		05:54		06:05		05:33		05:29
	17:10			17:48	24	07:36 (WTG 05)		19:53		20:24	29	19:41 (WTG 02)
28	07:17			06:39		05:53		06:04		05:32		05:29
	17:11			17:49	24	07:37 (WTG 05)		19:54		20:24	30	19:42 (WTG 02)
29	07:16					06:51		06:02		05:32		05:30
	17:12					19:22		19:56		20:25	32	19:43 (WTG 02)
30	07:16					06:49		06:01		05:31		05:30
	17:13					19:23		19:57		20:26	34	19:44 (WTG 02)
31	07:15					06:48				05:31		
	17:15					19:24				20:27	35	19:44 (WTG 02)
Ore potenziali eliofanìa	296					369		399		449		454
Totale, caso peggiore	559		113		78					259		1268

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 112 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (417)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:12 (WTG 02) 19:54 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57
2	05:31 20:39	19:12 (WTG 02) 19:55 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:56
3	05:32 20:38	19:12 (WTG 02) 19:54 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:55
4	05:32 20:38	19:13 (WTG 02) 19:55 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	07:10 16:54
5	05:33 20:38	19:13 (WTG 02) 19:54 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	07:11 16:52
6	05:33 20:38	19:14 (WTG 02) 19:54 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	07:12 16:51
7	05:34 20:37	19:15 (WTG 02) 19:55 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	07:13 16:50
8	05:34 20:37	19:15 (WTG 02) 19:54 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49
9	05:35 20:37	19:16 (WTG 02) 19:54 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48
10	05:36 20:36	19:16 (WTG 02) 19:54 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47
11	05:37 20:36	19:16 (WTG 02) 19:53 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46
12	05:37 20:35	19:17 (WTG 02) 19:53 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45
13	05:38 20:35	19:18 (WTG 02) 19:53 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44
14	05:39 20:34	19:19 (WTG 02) 19:52 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43
15	05:40 20:34	19:20 (WTG 02) 19:51 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42
16	05:40 20:33	19:21 (WTG 02) 19:50 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41
17	05:41 20:33	19:22 (WTG 02) 19:50 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40
18	05:42 20:32	19:24 (WTG 02) 19:49 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40
19	05:43 20:31	19:24 (WTG 02) 19:47 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39
20	05:44 20:30	19:26 (WTG 02) 19:45 (WTG 02)	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38
21	05:45 20:30	19:29 (WTG 02) 19:43 (WTG 02)	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37
22	05:45 20:29	19:33 (WTG 02) 19:40 (WTG 02)	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37
23	05:46 20:28	19:40 (WTG 02) 19:50 (WTG 02)	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36
24	05:47 20:27	19:42 (WTG 02) 19:48 (WTG 02)	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36
25	05:48 20:26	19:45 (WTG 02) 19:51 (WTG 02)	06:19 19:47	06:50 18:55	07:23 18:07	07:00 16:35
26	05:49 20:25	19:49 (WTG 02) 19:45 (WTG 02)	06:20 19:45	06:51 18:53	07:24 18:05	07:01 16:34
27	05:50 20:24	19:51 (WTG 02) 19:44 (WTG 02)	06:21 19:44	06:53 18:51	07:25 18:04	07:03 16:34
28	05:51 20:24	19:54 (WTG 02) 19:42 (WTG 02)	06:22 19:42	06:54 18:50	07:26 18:03	07:04 16:34
29	05:52 20:23	19:55 (WTG 02) 19:41 (WTG 02)	06:23 19:41	06:55 18:48	07:27 18:02	07:05 16:33
30	05:53 20:21	19:57 (WTG 02) 19:39 (WTG 02)	06:24 19:39	06:56 18:46	07:28 18:01	07:06 16:33
31	05:54 20:20	19:59 (WTG 02) 19:37 (WTG 02)	06:25 19:37	06:57 18:44	07:29 18:00	07:07 16:33
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	722			193	269	784

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 113 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (418)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		08:12 (WTG 04)	07:14		06:37	07:06 (7)	06:46	05:59		05:30	19:13 (WTG 02)
	16:41	25	08:37 (WTG 04)	17:16		17:51		19:25	19:58		20:28	33 19:46 (WTG 02)
2	07:28		08:12 (WTG 04)	07:13		06:36	07:17 (WTG 05)	06:44	05:58		05:30	19:12 (WTG 02)
	16:42	26	08:38 (WTG 04)	17:17		17:52	07:35 (WTG 05)	19:26	19:59		20:28	34 19:46 (WTG 02)
3	07:28		08:13 (WTG 04)	07:12		06:34	07:17 (WTG 05)	06:42	05:57		05:29	19:12 (WTG 02)
	16:43	25	08:38 (WTG 04)	17:18		17:53	07:34 (WTG 05)	19:27	20:00		20:29	35 19:47 (WTG 02)
4	07:28		08:13 (WTG 04)	07:11		06:33	07:19 (WTG 05)	06:41	05:56		05:29	19:12 (WTG 02)
	16:44	26	08:39 (WTG 04)	17:20		17:54	07:34 (WTG 05)	19:28	20:01		20:30	36 19:48 (WTG 02)
5	07:28		08:13 (WTG 04)	07:10		06:31	07:20 (WTG 05)	06:39	05:54		05:28	19:11 (WTG 02)
	16:45	27	08:40 (WTG 04)	17:21		17:55	07:32 (WTG 05)	19:30	20:02		20:31	37 19:48 (WTG 02)
6	07:28		08:14 (WTG 04)	07:08		06:29	07:21 (WTG 05)	06:37	05:53		05:28	19:11 (WTG 02)
	16:46	26	08:40 (WTG 04)	17:22		17:56	07:28 (WTG 05)	19:31	20:03		20:31	38 19:49 (WTG 02)
7	07:28		08:14 (WTG 04)	07:07		06:28		06:36	05:52		05:28	19:11 (WTG 02)
	16:47	27	08:41 (WTG 04)	17:24		17:58		19:32	20:04		20:32	38 19:49 (WTG 02)
8	07:27		08:15 (WTG 04)	07:06		06:26		06:34	05:51		05:28	19:11 (WTG 02)
	16:48	27	08:42 (WTG 04)	17:25		17:59		19:33	20:05		20:32	39 19:50 (WTG 02)
9	07:27		08:15 (WTG 04)	07:05		06:24		06:33	05:49		05:27	19:11 (WTG 02)
	16:49	26	08:41 (WTG 04)	17:26		18:00		19:34	20:06		20:33	39 19:50 (WTG 02)
10	07:27		08:15 (WTG 04)	07:04		06:23		06:31	05:48		05:27	19:11 (WTG 02)
	16:50	27	08:42 (WTG 04)	17:27		18:01		19:35	20:07		20:34	39 19:50 (WTG 02)
11	07:27		08:16 (WTG 04)	07:03		06:21		06:29	05:47		05:27	19:11 (WTG 02)
	16:51	27	08:43 (WTG 04)	17:29		18:02		19:36	20:08		20:34	40 19:51 (WTG 02)
12	07:27		08:16 (WTG 04)	07:01		06:20		06:28	05:46		05:27	19:11 (WTG 02)
	16:52	26	08:42 (WTG 04)	17:30		18:03		19:37	20:09		20:35	41 19:52 (WTG 02)
13	07:26		08:17 (WTG 04)	07:00		06:18		06:26	05:45		05:27	19:11 (WTG 02)
	16:53	26	08:43 (WTG 04)	17:31		18:04		19:38	20:10		20:35	41 19:52 (WTG 02)
14	07:26		08:18 (WTG 04)	06:59		06:16		06:25	05:44		05:27	19:11 (WTG 02)
	16:54	26	08:44 (WTG 04)	17:32		18:06		19:39	20:11		20:36	41 19:52 (WTG 02)
15	07:26		08:18 (WTG 04)	06:57		06:15		06:23	05:43		05:27	19:11 (WTG 02)
	16:55	25	08:43 (WTG 04)	17:34		18:07		19:40	20:12		20:36	42 19:53 (WTG 02)
16	07:25		08:19 (WTG 04)	06:56		06:13		06:21	05:42		05:27	19:11 (WTG 02)
	16:56	25	08:44 (WTG 04)	17:35		18:08		19:41	20:13		20:36	42 19:53 (WTG 02)
17	07:25		08:19 (WTG 04)	06:55		06:11		06:20	05:41		05:27	19:11 (WTG 02)
	16:58	24	08:43 (WTG 04)	17:36		18:09		19:43	20:14		20:37	42 19:53 (WTG 02)
18	07:24		08:19 (WTG 04)	06:53		06:10		06:18	05:40		05:27	19:11 (WTG 02)
	16:59	24	08:43 (WTG 04)	17:37		18:10		19:44	20:15		20:37	42 19:53 (WTG 02)
19	07:24		08:21 (WTG 04)	06:52		06:08		06:17	05:39		05:27	19:11 (WTG 02)
	17:00	22	08:43 (WTG 04)	17:39		18:11		19:45	20:16		20:38	42 19:53 (WTG 02)
20	07:23		08:21 (WTG 04)	06:51		06:06		06:15	05:38		05:27	19:12 (WTG 02)
	17:01	21	08:42 (WTG 04)	17:40		18:12		19:46	20:17		20:38	43 19:55 (WTG 02)
21	07:22		08:22 (WTG 04)	06:49		06:04		06:14	05:37		05:27	19:12 (WTG 02)
	17:02	20	08:42 (WTG 04)	17:41		18:13		19:47	20:18		20:38	43 19:55 (WTG 02)
22	07:22		08:24 (WTG 04)	06:48		06:03		06:12	05:37		05:27	19:12 (WTG 02)
	17:04	18	08:42 (WTG 04)	17:42		18:14		19:48	20:19		20:38	43 19:55 (WTG 02)
23	07:21		08:25 (WTG 04)	06:46		06:01		06:11	05:36		05:28	19:12 (WTG 02)
	17:05	15	08:40 (WTG 04)	17:43		18:15		19:49	20:20		20:38	43 19:55 (WTG 02)
24	07:20		08:27 (WTG 04)	06:45		05:59		06:09	05:35		05:28	19:13 (WTG 02)
	17:06	12	08:39 (WTG 04)	17:45		18:17		19:50	20:21	8	19:32 (WTG 02)	20:39 42 19:55 (WTG 02)
25	07:20		08:30 (WTG 04)	06:43		05:58		06:08	05:34		05:28	19:13 (WTG 02)
	17:07	6	08:36 (WTG 04)	17:46		18:18		19:51	20:22	14	19:35 (WTG 02)	20:39 42 19:55 (WTG 02)
26	07:19			06:42		05:56		06:06	05:34		05:28	19:13 (WTG 02)
	17:08			17:47	21	07:35 (WTG 05)		19:52	20:23	19	19:38 (WTG 02)	20:39 42 19:55 (WTG 02)
27	07:18			06:40		05:54		06:05	05:33		05:29	19:14 (WTG 02)
	17:10			17:48	23	07:35 (WTG 05)		19:53	20:24	22	19:39 (WTG 02)	20:39 42 19:56 (WTG 02)
28	07:17			06:39		05:53		06:04	05:32		05:29	19:14 (WTG 02)
	17:11			17:49	24	07:36 (WTG 05)		19:54	20:24	24	19:41 (WTG 02)	20:39 41 19:55 (WTG 02)
29	07:16					05:51		06:02	05:32		05:30	19:14 (WTG 02)
	17:12					19:22		19:56	20:25	27	19:42 (WTG 02)	20:39 41 19:55 (WTG 02)
30	07:16					06:49		06:01	05:31		05:30	19:15 (WTG 02)
	17:13					19:23		19:57	20:26	29	19:44 (WTG 02)	20:39 41 19:56 (WTG 02)
31	07:15					06:48			05:31		19:14 (WTG 02)	
	17:15					19:24			20:27	30	19:44 (WTG 02)	
Ore potenziali eliofanìa	296					369		399	449		454	1204
Totale, caso peggiore	579		103		89				173			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 113 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (418)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	19:15 (WTG 02) 19:55 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57
2	05:31 20:39	19:16 (WTG 02) 19:56 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:56
3	05:32 20:38	19:16 (WTG 02) 19:55 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:55
4	05:32 20:38	19:17 (WTG 02) 19:55 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	07:10 16:54
5	05:33 20:38	19:16 (WTG 02) 19:55 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	07:11 16:52
6	05:33 20:38	19:17 (WTG 02) 19:55 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	07:12 16:51
7	05:34 20:37	19:18 (WTG 02) 19:55 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	07:13 16:50
8	05:34 20:37	19:18 (WTG 02) 19:54 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	07:14 16:49
9	05:35 20:37	19:19 (WTG 02) 19:54 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	07:15 16:48
10	05:36 20:36	19:20 (WTG 02) 19:54 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	07:16 16:47
11	05:37 20:36	19:22 (WTG 02) 19:53 (WTG 02)	06:06 20:07	06:37 19:19	07:09 18:28	07:17 16:46
12	05:37 20:35	19:22 (WTG 02) 19:53 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	07:17 16:45
13	05:38 20:35	19:23 (WTG 02) 19:52 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	07:18 16:44
14	05:39 20:34	19:24 (WTG 02) 19:52 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	07:19 16:43
15	05:40 20:34	19:24 (WTG 02) 19:50 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	07:20 16:42
16	05:40 20:33	19:26 (WTG 02) 19:49 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	07:20 16:41
17	05:41 20:33	19:28 (WTG 02) 19:48 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	07:21 16:40
18	05:42 20:32	19:30 (WTG 02) 19:47 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	07:22 16:39
19	05:43 20:31	19:32 (WTG 02) 19:43 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	07:22 16:38
20	05:44 20:30		06:14 19:55	06:45 19:03	07:17 18:14	07:23 16:37
21	05:45 20:30		06:15 19:53	06:46 19:02	07:19 18:12	07:23 16:37
22	05:45 20:29		06:16 19:52	06:47 19:00	07:20 18:11	07:24 16:37
23	05:46 20:28		06:17 19:50	06:48 18:58	07:21 18:09	07:24 16:36
24	05:47 20:27		06:18 19:48	06:49 18:57	07:22 18:08	07:25 16:36
25	05:48 20:26		06:19 19:47	06:50 18:55	07:23 17:07	07:25 16:35
26	05:49 20:25		06:20 19:45	06:51 18:53	07:24 17:05	07:26 16:34
27	05:50 20:24		06:21 19:44	06:53 18:51	07:26 17:04	07:26 16:34
28	05:51 20:24		06:22 19:42	06:54 18:50	07:27 17:02	07:26 16:34
29	05:52 20:23		06:23 19:41	06:55 18:48	07:28 17:01	07:27 16:33
30	05:53 20:21		06:24 19:39	06:56 18:46	07:29 17:00	07:27 16:33
31	05:54 20:20		06:25 19:37		06:30 16:59	07:27 16:40
Ore potenziali eliofanìa	460		429	375	345	297
Totale, caso peggiore	594			192		290
						768

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 114 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (419)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:10 (WTG 04)	07:14	06:37	07:04 (7)	06:46	05:59	05:30	19:22 (WTG 02)		
	16:41	08:34 (WTG 04)	17:16	17:51		19:25	19:58	20:28	22	19:44 (WTG 02)	
2	07:28	08:11 (WTG 04)	07:13	06:36	07:16 (WTG 05)	06:44	05:58	05:30	19:21 (WTG 02)		
	16:42	08:35 (WTG 04)	17:17	17:52	07:34 (WTG 05)	19:26	19:59	20:28	24	19:45 (WTG 02)	
3	07:28	08:11 (WTG 04)	07:12	06:34	07:16 (WTG 05)	06:42	05:57	05:29	19:20 (WTG 02)		
	16:43	08:35 (WTG 04)	17:18	17:53	07:33 (WTG 05)	19:27	20:00	20:29	26	19:46 (WTG 02)	
4	07:28	08:11 (WTG 04)	07:11	06:33	07:17 (WTG 05)	06:41	05:56	05:29	19:20 (WTG 02)		
	16:44	08:36 (WTG 04)	17:20	17:54	07:33 (WTG 05)	19:28	20:01	20:30	28	19:48 (WTG 02)	
5	07:28	08:12 (WTG 04)	07:10	06:31	07:17 (WTG 05)	06:39	05:54	05:28	19:19 (WTG 02)		
	16:45	08:37 (WTG 04)	17:21	17:55	07:31 (WTG 05)	19:30	20:02	20:31	29	19:48 (WTG 02)	
6	07:28	08:12 (WTG 04)	07:08	06:29	07:28 (WTG 05)	06:37	05:53	05:28	19:19 (WTG 02)		
	16:46	08:38 (WTG 04)	17:22	17:56	07:29 (WTG 05)	19:31	20:03	20:31	30	19:49 (WTG 02)	
7	07:28	08:12 (WTG 04)	07:07	06:28	07:22 (WTG 05)	06:36	05:52	05:28	19:18 (WTG 02)		
	16:47	08:38 (WTG 04)	17:24	17:58	07:26 (WTG 05)	19:32	20:04	20:32	32	19:50 (WTG 02)	
8	07:27	08:13 (WTG 04)	07:06	06:26		06:34	05:51	05:28	19:18 (WTG 02)		
	16:48	08:39 (WTG 04)	17:25	17:59		19:33	20:05	20:32	33	19:51 (WTG 02)	
9	07:27	08:12 (WTG 04)	07:05	06:24		06:33	05:49	05:27	19:17 (WTG 02)		
	16:49	08:39 (WTG 04)	17:26	18:00		19:34	20:06	20:33	33	19:50 (WTG 02)	
10	07:27	08:13 (WTG 04)	07:04	06:23		06:31	05:48	05:27	19:17 (WTG 02)		
	16:50	08:40 (WTG 04)	17:27	18:01		19:35	20:07	20:34	34	19:51 (WTG 02)	
11	07:27	08:14 (WTG 04)	07:03	06:21		06:29	05:47	05:27	19:17 (WTG 02)		
	16:51	08:40 (WTG 04)	17:29	18:02		19:36	20:08	20:34	35	19:52 (WTG 02)	
12	07:27	08:13 (WTG 04)	07:01	06:20		06:28	05:46	05:27	19:17 (WTG 02)		
	16:52	08:40 (WTG 04)	17:30	18:03		19:37	20:09	20:35	35	19:52 (WTG 02)	
13	07:26	08:14 (WTG 04)	07:00	06:18		06:26	05:45	05:27	19:17 (WTG 02)		
	16:53	08:41 (WTG 04)	17:31	18:04		19:38	20:10	20:35	36	19:53 (WTG 02)	
14	07:26	08:15 (WTG 04)	06:59	06:16		06:25	05:44	05:27	19:17 (WTG 02)		
	16:54	08:42 (WTG 04)	17:32	18:06		19:39	20:11	20:36	36	19:53 (WTG 02)	
15	07:26	08:15 (WTG 04)	06:57	06:15		06:23	05:43	05:27	19:17 (WTG 02)		
	16:55	08:41 (WTG 04)	17:34	18:07		19:40	20:12	20:36	37	19:54 (WTG 02)	
16	07:25	08:16 (WTG 04)	06:56	06:13		06:21	05:42	05:27	19:17 (WTG 02)		
	16:56	08:42 (WTG 04)	17:35	18:08		19:41	20:13	20:36	37	19:54 (WTG 02)	
17	07:25	08:16 (WTG 04)	06:55	06:11		06:20	05:41	05:27	19:17 (WTG 02)		
	16:58	08:42 (WTG 04)	17:36	18:09		19:43	20:14	20:37	37	19:54 (WTG 02)	
18	07:24	08:16 (WTG 04)	06:53	06:10		06:18	05:40	05:27	19:17 (WTG 02)		
	16:59	08:41 (WTG 04)	17:37	18:10		19:44	20:15	20:37	38	19:55 (WTG 02)	
19	07:24	08:18 (WTG 04)	06:52	06:08		06:17	05:39	05:27	19:17 (WTG 02)		
	17:00	08:42 (WTG 04)	17:39	18:11		19:45	20:16	20:38	38	19:55 (WTG 02)	
20	07:23	08:18 (WTG 04)	06:51	06:06		06:15	05:38	05:27	19:18 (WTG 02)		
	17:01	08:41 (WTG 04)	17:40	18:12		19:46	20:17	20:38	38	19:56 (WTG 02)	
21	07:22	08:18 (WTG 04)	06:49	06:04		06:14	05:37	05:27	19:18 (WTG 02)		
	17:02	08:41 (WTG 04)	17:41	18:13		19:47	20:18	20:38	38	19:56 (WTG 02)	
22	07:22	08:20 (WTG 04)	06:48	06:03		06:12	05:37	05:27	19:18 (WTG 02)		
	17:04	08:41 (WTG 04)	17:42	18:14		19:48	20:19	20:38	38	19:56 (WTG 02)	
23	07:21	08:21 (WTG 04)	06:46	06:01		06:11	05:36	05:28	19:18 (WTG 02)		
	17:05	08:40 (WTG 04)	17:43	18:15		19:49	20:20	20:38	38	19:56 (WTG 02)	
24	07:20	08:22 (WTG 04)	06:45	05:59	07:21 (WTG 05)	06:09	05:35	05:28	19:19 (WTG 02)		
	17:06	08:39 (WTG 04)	17:45	18:17	07:30 (WTG 05)	19:50	20:21	20:39	38	19:57 (WTG 02)	
25	07:20	08:24 (WTG 04)	06:43	05:58	07:19 (WTG 05)	06:08	05:34	05:28	19:19 (WTG 02)		
	17:07	08:37 (WTG 04)	17:46	18:18	07:32 (WTG 05)	19:51	20:22	20:39	37	19:56 (WTG 02)	
26	07:19	08:27 (WTG 04)	06:42	05:56	07:18 (WTG 05)	06:06	05:34	05:28	19:19 (WTG 02)		
	17:08	08:36 (WTG 04)	17:47	18:19	07:33 (WTG 05)	19:52	20:23	20:39	37	19:56 (WTG 02)	
27	07:18		06:40	05:54	07:04 (7)	06:05	05:33	05:29	19:20 (WTG 02)		
	17:10		17:48	18:20	07:33 (WTG 05)	19:53	20:24	20:39	37	19:57 (WTG 02)	
28	07:17		06:39	05:53	07:04 (7)	06:04	05:32	05:29	19:20 (WTG 02)		
	17:11		17:49	18:21	07:34 (WTG 05)	19:54	20:24	20:39	37	19:57 (WTG 02)	
29	07:16		06:51	05:52		06:02	05:32	05:30	19:20 (WTG 02)		
	17:12		19:22	18:22		19:56	20:25	11	19:38 (WTG 02)		20:39
30	07:16		06:49	05:51		06:01	05:31	05:30	19:21 (WTG 02)		
	17:13		19:23	18:23		19:57	20:26	16	19:41 (WTG 02)		20:39
31	07:15		06:48	05:50		06:01	05:31	05:30	19:21 (WTG 02)		
	17:15		19:24	18:24		19:57	20:27	19	19:42 (WTG 02)		20:39
Ore potenziali eliofanìa	296			369		399	449		454		1030
Totale, caso peggiore	613		82	103			46				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 114 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (419)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31 20:39	19:21 (WTG 02) 19:56 (WTG 02)	05:55 20:19	06:26 19:36	06:57 18:45	07:07 16:57	
2	05:31 20:39	19:22 (WTG 02) 19:56 (WTG 02)	05:56 20:18	06:27 19:34	06:58 18:43	07:08 16:56	
3	05:32 20:38	19:22 (WTG 02) 19:56 (WTG 02)	05:57 20:17	06:28 19:32	06:59 18:41	07:09 16:55	
4	05:32 20:38	19:23 (WTG 02) 19:56 (WTG 02)	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	
5	05:33 20:38	19:23 (WTG 02) 19:55 (WTG 02)	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	
6	05:33 20:38	19:25 (WTG 02) 19:55 (WTG 02)	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	
7	05:34 20:37	19:26 (WTG 02) 19:55 (WTG 02)	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	
8	05:34 20:37	19:26 (WTG 02) 19:54 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	
9	05:35 20:37	19:27 (WTG 02) 19:54 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	
10	05:36 20:36	19:29 (WTG 02) 19:53 (WTG 02)	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	
11	05:37 20:36	19:29 (WTG 02) 19:52 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	
12	05:37 20:35	19:31 (WTG 02) 19:51 (WTG 02)	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	
13	05:38 20:35	19:33 (WTG 02) 19:50 (WTG 02)	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	
14	05:39 20:34	19:35 (WTG 02) 19:48 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	
15	05:40 20:34	19:38 (WTG 02) 19:44 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	
16	05:40 20:33	19:40 (WTG 02) 19:40 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	
17	05:41 20:33	19:41 (WTG 02) 19:41 (WTG 02)	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	
18	05:42 20:32	19:42 (WTG 02) 19:42 (WTG 02)	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:39	
19	05:43 20:31	19:43 (WTG 02) 19:43 (WTG 02)	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:38	
20	05:44 20:30	19:44 (WTG 02) 19:44 (WTG 02)	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:37	
21	05:45 20:30	19:45 (WTG 02) 19:45 (WTG 02)	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:36	
22	05:45 20:29	19:46 (WTG 02) 19:46 (WTG 02)	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:35	
23	05:46 20:28	19:47 (WTG 02) 19:47 (WTG 02)	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:34	
24	05:47 20:27	19:48 (WTG 02) 19:48 (WTG 02)	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:33	
25	05:48 20:26	19:49 (WTG 02) 19:49 (WTG 02)	06:19 19:47	06:50 18:55	07:23 18:07	07:00 16:32	
26	05:49 20:25	19:50 (WTG 02) 19:50 (WTG 02)	06:20 19:45	06:51 18:53	07:24 18:05	07:01 16:31	
27	05:50 20:24	19:51 (WTG 02) 19:51 (WTG 02)	06:21 19:44	06:52 18:51	07:25 18:04	07:02 16:30	
28	05:51 20:24	19:52 (WTG 02) 19:52 (WTG 02)	06:22 19:42	06:53 18:50	07:26 18:03	07:03 16:29	
29	05:52 20:23	19:53 (WTG 02) 19:53 (WTG 02)	06:23 19:41	06:54 18:48	07:27 18:02	07:04 16:28	
30	05:53 20:21	19:54 (WTG 02) 19:54 (WTG 02)	06:24 19:39	06:55 18:46	07:28 18:01	07:05 16:27	
31	05:54 20:20	19:55 (WTG 02) 19:55 (WTG 02)	06:25 19:37	06:56 18:45	07:29 18:00	07:06 16:26	
Ore potenziali eliofanìa	460	429	375	345	187	297	
Totale, caso peggiore	385				187	332	725

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 115 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (420)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:27	08:10 (WTG 04)	07:14	06:37	07:13 (WTG 05)	06:46	05:59	05:30
	16:41	19 08:29 (WTG 04)	17:16	17:51	07:30 (WTG 05)	19:25	19:58	20:28
2	07:28	08:10 (WTG 04)	07:13	06:36	07:13 (WTG 05)	06:44	05:58	05:30
	16:42	20 08:30 (WTG 04)	17:17	17:52	07:31 (WTG 05)	19:26	19:59	20:28
3	07:28	08:10 (WTG 04)	07:12	06:34	07:12 (WTG 05)	06:42	05:57	05:29
	16:43	21 08:31 (WTG 04)	17:18	17:53	07:31 (WTG 05)	19:27	20:00	20:29
4	07:28	08:10 (WTG 04)	07:11	06:33	07:13 (WTG 05)	06:41	05:56	05:29
	16:44	21 08:31 (WTG 04)	17:20	17:54	07:31 (WTG 05)	19:28	20:01	20:30
5	07:28	08:10 (WTG 04)	07:10	06:31	07:12 (WTG 05)	06:39	05:54	05:28
	16:45	22 08:32 (WTG 04)	17:21	17:55	07:30 (WTG 05)	19:30	20:02	20:31
6	07:28	08:11 (WTG 04)	07:08	06:29	07:12 (WTG 05)	06:37	05:53	05:28
	16:46	22 08:33 (WTG 04)	17:22	17:56	07:29 (WTG 05)	19:31	20:03	20:31
7	07:28	08:11 (WTG 04)	07:07	06:28	07:13 (WTG 05)	06:36	05:52	05:28
	16:47	23 08:34 (WTG 04)	17:24	17:58	07:29 (WTG 05)	19:32	20:04	20:32
8	07:27	08:11 (WTG 04)	07:06	06:26	07:14 (WTG 05)	06:34	05:51	05:28
	16:48	24 08:35 (WTG 04)	17:25	17:59	07:27 (WTG 05)	19:33	20:05	20:32
9	07:27	08:10 (WTG 04)	07:05	06:24	07:15 (WTG 05)	06:33	05:49	05:27
	16:49	25 08:35 (WTG 04)	17:26	18:00	9 07:24 (WTG 05)	19:34	20:06	20:33
10	07:27	08:11 (WTG 04)	07:04	06:23		06:31	05:48	05:27
	16:50	25 08:36 (WTG 04)	17:27	18:01		19:35	20:07	20:34
11	07:27	08:11 (WTG 04)	07:03	06:21		06:29	05:47	05:27
	16:51	26 08:37 (WTG 04)	17:29	18:02		19:36	20:08	20:34
12	07:27	08:11 (WTG 04)	07:01	06:20		06:28	05:46	05:27
	16:52	26 08:37 (WTG 04)	17:30	18:03		19:37	20:09	20:35
13	07:26	08:11 (WTG 04)	07:00	06:18		06:26	05:45	05:27
	16:53	27 08:38 (WTG 04)	17:31	18:04		19:38	20:10	20:35
14	07:26	08:12 (WTG 04)	06:59	06:16		06:25	05:44	05:27
	16:54	27 08:39 (WTG 04)	17:32	18:06		19:39	20:11	20:36
15	07:26	08:12 (WTG 04)	06:57	06:15		06:23	05:43	05:27
	16:55	27 08:39 (WTG 04)	17:34	18:07		19:40	20:12	20:36
16	07:25	08:13 (WTG 04)	06:56	06:13		06:21	05:42	05:27
	16:56	27 08:40 (WTG 04)	17:35	18:08		19:41	20:13	20:36
17	07:25	08:12 (WTG 04)	06:55	06:11		06:20	05:41	05:27
	16:58	28 08:40 (WTG 04)	17:36	18:09		19:43	20:14	20:37
18	07:24	08:12 (WTG 04)	06:53	06:10		06:18	05:40	05:27
	16:59	27 08:39 (WTG 04)	17:37	18:10		19:44	20:15	20:37
19	07:24	08:13 (WTG 04)	06:52	06:08		06:17	05:39	05:27
	17:00	27 08:40 (WTG 04)	17:39	18:11		19:45	20:16	20:38
20	07:23	08:13 (WTG 04)	06:51	06:06		06:15	05:38	05:27
	17:01	27 08:40 (WTG 04)	17:40	18:12		19:46	20:17	20:38
21	07:22	08:14 (WTG 04)	06:49	06:04		06:14	05:37	05:27
	17:02	26 08:40 (WTG 04)	17:41	18:13		19:47	20:18	20:38
22	07:22	08:15 (WTG 04)	06:48	06:03		06:12	05:37	05:27
	17:04	26 08:41 (WTG 04)	17:42	18:14		19:48	20:19	20:38
23	07:21	08:15 (WTG 04)	06:46	06:01		06:11	05:36	05:28
	17:05	25 08:40 (WTG 04)	17:43	18:15		19:49	20:20	20:38
24	07:20	08:16 (WTG 04)	06:45	05:59		06:09	05:35	05:28
	17:06	24 08:40 (WTG 04)	17:45	18:17		19:50	20:21	20:39
25	07:20	08:17 (WTG 04)	06:43	05:58		06:08	05:34	05:28
	17:07	22 08:39 (WTG 04)	17:46	18:18		19:51	20:22	20:39
26	07:19	08:18 (WTG 04)	06:42	05:56		06:06	05:34	05:28
	17:08	21 08:39 (WTG 04)	17:47	18:19	6 07:19 (WTG 05)	19:52	20:23	20:39
27	07:18	08:19 (WTG 04)	06:40	05:54		06:05	05:33	05:29
	17:10	19 08:38 (WTG 04)	17:48	18:20	12 07:25 (WTG 05)	19:53	20:24	20:39
28	07:17	08:21 (WTG 04)	06:39	05:53		06:04	05:32	05:29
	17:11	16 08:37 (WTG 04)	17:49	18:21	15 07:28 (WTG 05)	19:54	20:24	20:39
29	07:16	08:23 (WTG 04)		06:51		06:02	05:32	05:30
	17:12	13 08:36 (WTG 04)		19:22		19:56	20:25	20:39
30	07:16	08:25 (WTG 04)		06:49		06:01	05:31	05:30
	17:13	8 08:33 (WTG 04)		19:23		19:57	20:26	20:39
31	07:15			06:48			05:31	
	17:15			19:24			20:27	
Ore potenziali eliofanìa	296	297	369	399	449	454	159	
Totale, caso peggiore	691	33	145					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 115 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (420)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32 26
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32 25
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32 25
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32 24
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31 23
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31 22
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31 22
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31 22
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31 21
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31 20
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31 19
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31 18
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31 18
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32 17
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32 16
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32 16
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32 15
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33 15
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33 15
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34 15
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34 14
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34 14
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35 14
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	07:25 16:36 15
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35	07:25 16:36 15
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37 16
27	05:50 20:24	06:21 19:44	06:53 18:51	07:26 17:04	07:03 16:34	07:26 16:37 16
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:02	07:04 16:34	07:26 16:38 16
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	07:27 16:39 17
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 16:40 17
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 16:59	07:07 16:33	07:27 16:40 18
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore				177	445	565

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 116 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (421)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:12 (WTG 04)	07:14	08:26 (WTG 04)	06:37	07:14 (WTG 05)	06:46	05:59	05:30			
	16:41	15 08:27 (WTG 04)	17:16	7 08:33 (WTG 04)	17:51	13 07:27 (WTG 05)	19:25	19:58	20:28			
2	07:28	08:12 (WTG 04)	07:13		06:36	07:13 (WTG 05)	06:44	05:58	05:30			
	16:42	16 08:28 (WTG 04)	17:17		17:52	16 07:29 (WTG 05)	19:26	19:59	20:28			
3	07:28	08:12 (WTG 04)	07:12		06:34	07:12 (WTG 05)	06:42	05:57	05:29			
	16:43	17 08:29 (WTG 04)	17:18		17:53	17 07:29 (WTG 05)	19:27	20:00	20:29			
4	07:28	08:12 (WTG 04)	07:11		06:33	07:12 (WTG 05)	06:41	05:56	05:29			
	16:44	18 08:30 (WTG 04)	17:20		17:54	18 07:30 (WTG 05)	19:28	20:01	20:30			
5	07:28	08:12 (WTG 04)	07:10		06:31	07:11 (WTG 05)	06:39	05:54	05:28			
	16:45	19 08:31 (WTG 04)	17:21		17:55	19 07:30 (WTG 05)	19:30	20:02	20:31			
6	07:28	08:12 (WTG 04)	07:08		06:29	07:10 (WTG 05)	06:37	05:53	05:28			
	16:46	20 08:32 (WTG 04)	17:22		17:56	19 07:29 (WTG 05)	19:31	20:03	20:31			
7	07:28	08:12 (WTG 04)	07:07		06:28	07:11 (WTG 05)	06:36	05:52	05:28			
	16:47	21 08:33 (WTG 04)	17:24		17:58	18 07:29 (WTG 05)	19:32	20:04	20:32			
8	07:27	08:12 (WTG 04)	07:06		06:26	07:11 (WTG 05)	06:34	05:51	05:28			
	16:48	22 08:34 (WTG 04)	17:25		17:59	17 07:28 (WTG 05)	19:33	20:05	20:32			
9	07:27	08:11 (WTG 04)	07:05		06:24	07:11 (WTG 05)	06:33	05:49	05:27			
	16:49	24 08:35 (WTG 04)	17:26		18:00	15 07:26 (WTG 05)	19:34	20:06	20:33			
10	07:27	08:12 (WTG 04)	07:04		06:23	07:13 (WTG 05)	06:31	05:48	05:27			
	16:50	24 08:36 (WTG 04)	17:27		18:01	12 07:25 (WTG 05)	19:35	20:07	20:34			
11	07:27	08:12 (WTG 04)	07:03		06:21	07:16 (WTG 05)	06:29	05:47	05:27			
	16:51	25 08:37 (WTG 04)	17:29		18:02	5 07:21 (WTG 05)	19:36	20:08	20:34			
12	07:27	08:11 (WTG 04)	07:01		06:20		06:28	05:46	05:27			
	16:52	26 08:37 (WTG 04)	17:30		18:03		19:37	20:09	20:35			
13	07:26	08:12 (WTG 04)	07:00		06:18		06:26	05:45	05:27			
	16:53	26 08:38 (WTG 04)	17:31		18:04		19:38	20:10	20:35			
14	07:26	08:11 (WTG 04)	06:59		06:16		06:25	05:44	05:27			
	16:54	27 08:38 (WTG 04)	17:32		18:06		19:39	20:11	20:36			
15	07:26	08:12 (WTG 04)	06:57		06:15		06:23	05:43	05:27			
	16:55	27 08:39 (WTG 04)	17:34		18:07		19:40	20:12	20:36			
16	07:25	08:13 (WTG 04)	06:56		06:13		06:21	05:42	05:27			
	16:56	27 08:40 (WTG 04)	17:35		18:08		19:41	20:13	20:36			
17	07:25	08:12 (WTG 04)	06:55		06:11		06:20	05:41	05:27			
	16:58	28 08:40 (WTG 04)	17:36		18:09		19:43	20:14	20:37			
18	07:24	08:12 (WTG 04)	06:53		06:10		06:18	05:40	05:27			
	16:59	28 08:40 (WTG 04)	17:37		18:10		19:44	20:15	20:37			
19	07:24	08:13 (WTG 04)	06:52		06:08		06:17	05:39	05:27			
	17:00	28 08:41 (WTG 04)	17:39		18:11		19:45	20:16	20:38			
20	07:23	08:13 (WTG 04)	06:51		06:06		06:15	05:38	05:27			
	17:01	28 08:41 (WTG 04)	17:40		18:12		19:46	20:17	20:38			
21	07:22	08:13 (WTG 04)	06:49		06:04		06:14	05:37	05:27			
	17:02	28 08:41 (WTG 04)	17:41		18:13		19:47	20:18	20:38			
22	07:22	08:14 (WTG 04)	06:48		06:03		06:12	05:37	05:27			
	17:04	28 08:42 (WTG 04)	17:42		18:14		19:48	20:19	20:38			
23	07:21	08:14 (WTG 04)	06:46		06:01		06:11	05:36	05:28			
	17:05	27 08:41 (WTG 04)	17:43		18:15		19:49	20:20	20:38			
24	07:20	08:15 (WTG 04)	06:45		05:59		06:09	05:35	05:28			
	17:06	26 08:41 (WTG 04)	17:45		18:17		19:50	20:21	20:39			
25	07:20	08:15 (WTG 04)	06:43		05:58		06:08	05:34	05:28			
	17:07	26 08:41 (WTG 04)	17:46		18:18		19:51	20:22	20:39			
26	07:19	08:17 (WTG 04)	06:42		05:56		06:06	05:34	05:28			
	17:08	24 08:41 (WTG 04)	17:47		18:19		19:52	20:23	20:39			
27	07:18	08:18 (WTG 04)	06:40		05:54		06:05	05:33	05:29			
	17:10	23 08:41 (WTG 04)	17:48		18:20		19:53	20:24	20:39			
28	07:17	08:19 (WTG 04)	06:39		05:53		06:04	05:32	05:29			
	17:11	21 08:40 (WTG 04)	17:49		18:21		19:54	20:24	20:39			
29	07:16	08:20 (WTG 04)			06:51		06:02	05:32	05:30			
	17:12	19 08:39 (WTG 04)			19:22		19:56	20:25	20:39			
30	07:16	08:21 (WTG 04)			06:49		06:01	05:31	05:30			
	17:13	17 08:38 (WTG 04)			19:23		19:57	20:26	20:39			
31	07:15	08:23 (WTG 04)			06:48			05:31				
	17:15	13 08:36 (WTG 04)			19:24			20:27				
Ore potenziali eliofanìa	296		297		369		399	449	454			
Totale, caso peggiore	718		16		169							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 116 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (421)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32	07:54 (WTG 04) 25 08:19 (WTG 04)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32	24 08:19 (WTG 04) 07:55 (WTG 04)
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32	24 08:19 (WTG 04) 07:55 (WTG 04)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32	23 08:19 (WTG 04) 07:56 (WTG 04)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31	21 08:18 (WTG 04) 07:57 (WTG 04)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31	20 08:18 (WTG 04) 07:58 (WTG 04)
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31	19 08:18 (WTG 04) 07:59 (WTG 04)
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31	18 08:18 (WTG 04) 08:00 (WTG 04)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31	17 08:01 (WTG 04) 08:01 (WTG 04)
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31	16 08:02 (WTG 04) 08:02 (WTG 04)
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31	15 08:17 (WTG 04) 08:02 (WTG 04)
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31	14 08:17 (WTG 04) 08:03 (WTG 04)
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31	14 08:18 (WTG 04) 08:04 (WTG 04)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32	12 08:18 (WTG 04) 08:06 (WTG 04)
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32	12 08:18 (WTG 04) 13:37 (WTG 03)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32	17 08:07 (WTG 04) 13:41 (WTG 03)
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32	18 08:09 (WTG 04) 13:43 (WTG 03)
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33	19 08:09 (WTG 04) 13:43 (WTG 03)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33	20 08:10 (WTG 04) 13:45 (WTG 03)
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34	20 08:11 (WTG 04) 13:46 (WTG 03)
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34	19 08:12 (WTG 04) 13:46 (WTG 03)
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34	19 08:13 (WTG 04) 13:47 (WTG 03)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35	20 08:12 (WTG 04) 13:47 (WTG 03)
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	06:59 16:36	07:25 16:36	20 08:12 (WTG 04) 13:47 (WTG 03)
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35	07:25 16:36	19 08:13 (WTG 04) 13:47 (WTG 03)
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37	18 08:13 (WTG 04) 13:47 (WTG 03)
27	05:50 20:24	06:21 19:44	06:53 18:51	07:25 17:04	07:03 16:34	07:26 16:37	18 08:12 (WTG 04) 13:46 (WTG 03)
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:02	07:04 16:34	07:26 16:38	16 08:13 (WTG 04) 13:46 (WTG 03)
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33	07:27 16:39	11 08:13 (WTG 04) 08:24 (WTG 04)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 16:40	12 08:13 (WTG 04) 08:25 (WTG 04)
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 16:59	07:07 16:33	07:27 16:40	14 08:12 (WTG 04) 08:26 (WTG 04)
Ore potenziali eliofania	460	429	375	345	297	286	554
Totale, caso peggiore				181	506		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 117 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (422)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:13 (WTG 04)	07:14	08:24 (WTG 04)	06:37	07:15 (WTG 05)	06:46	05:59	05:30			
	16:41	42 14:09 (WTG 03)	17:16	13 08:37 (WTG 04)	17:51	10 07:25 (WTG 05)	19:25	19:58	20:28			
2	07:28	08:13 (WTG 04)	07:13	08:28 (WTG 04)	06:36	07:14 (WTG 05)	06:44	05:58	05:30			
	16:42	42 14:09 (WTG 03)	17:17	6 08:34 (WTG 04)	17:52	13 07:27 (WTG 05)	19:26	19:59	20:28			
3	07:28	08:13 (WTG 04)	07:12		06:34	07:12 (WTG 05)	06:42	05:57	05:29			
	16:43	41 14:08 (WTG 03)	17:18		17:53	16 07:28 (WTG 05)	19:27	20:00	20:29			
4	07:28	08:13 (WTG 04)	07:11		06:33	07:11 (WTG 05)	06:41	05:56	05:29			
	16:44	40 14:08 (WTG 03)	17:20		17:54	18 07:29 (WTG 05)	19:28	20:01	20:30			
5	07:28	08:13 (WTG 04)	07:10		06:31	07:10 (WTG 05)	06:39	05:54	05:28			
	16:45	40 14:07 (WTG 03)	17:21		17:55	19 07:29 (WTG 05)	19:30	20:02	20:31			
6	07:28	08:13 (WTG 04)	07:08		06:29	07:09 (WTG 05)	06:37	05:53	05:28			
	16:46	39 14:07 (WTG 03)	17:22		17:56	20 07:29 (WTG 05)	19:31	20:03	20:31			
7	07:28	08:13 (WTG 04)	07:07		06:28	07:10 (WTG 05)	06:36	05:52	05:28			
	16:47	35 14:05 (WTG 03)	17:24		17:58	19 07:29 (WTG 05)	19:32	20:04	20:32			
8	07:27	08:13 (WTG 04)	07:06		06:26	07:10 (WTG 05)	06:34	05:51	05:28			
	16:48	31 14:03 (WTG 03)	17:25		17:59	18 07:28 (WTG 05)	19:33	20:05	20:32			
9	07:27	08:12 (WTG 04)	07:05		06:24	07:10 (WTG 05)	06:33	05:49	05:27			
	16:49	23 08:35 (WTG 04)	17:26		18:00	17 07:27 (WTG 05)	19:34	20:06	20:33			
10	07:27	08:12 (WTG 04)	07:04		06:23	07:11 (WTG 05)	06:31	05:48	05:27			
	16:50	24 08:36 (WTG 04)	17:27		18:01	15 07:26 (WTG 05)	19:35	20:07	20:34			
11	07:27	08:13 (WTG 04)	07:03		06:21	07:12 (WTG 05)	06:29	05:47	05:27			
	16:51	24 08:37 (WTG 04)	17:29		18:02	12 07:24 (WTG 05)	19:36	20:08	20:34			
12	07:27	08:12 (WTG 04)	07:01		06:20	07:14 (WTG 05)	06:28	05:46	05:27			
	16:52	25 08:37 (WTG 04)	17:30		18:03	6 07:20 (WTG 05)	19:37	20:09	20:35			
13	07:26	08:13 (WTG 04)	07:00		06:18		06:26	05:45	05:27			
	16:53	26 08:39 (WTG 04)	17:31		18:04		19:38	20:10	20:35			
14	07:26	08:12 (WTG 04)	06:59		06:16		06:25	05:44	05:27			
	16:54	27 08:39 (WTG 04)	17:32		18:06		19:39	20:11	20:36			
15	07:26	08:13 (WTG 04)	06:57		06:15		06:23	05:43	05:27			
	16:55	27 08:40 (WTG 04)	17:34		18:07		19:40	20:12	20:36			
16	07:25	08:13 (WTG 04)	06:56		06:13		06:21	05:42	05:27			
	16:56	28 08:41 (WTG 04)	17:35		18:08		19:41	20:13	20:36			
17	07:25	08:13 (WTG 04)	06:55		06:11		06:20	05:41	05:27			
	16:58	28 08:41 (WTG 04)	17:36		18:09		19:43	20:14	20:37			
18	07:24	08:13 (WTG 04)	06:53		06:10		06:18	05:40	05:27			
	16:59	28 08:41 (WTG 04)	17:37		18:10		19:44	20:15	20:37			
19	07:24	08:13 (WTG 04)	06:52		06:08		06:17	05:39	05:27			
	17:00	29 08:42 (WTG 04)	17:39		18:11		19:45	20:16	20:38			
20	07:23	08:13 (WTG 04)	06:51		06:06		06:15	05:38	05:27			
	17:01	29 08:42 (WTG 04)	17:40		18:12		19:46	20:17	20:38			
21	07:22	08:13 (WTG 04)	06:49		06:04		06:14	05:37	05:27			
	17:02	29 08:42 (WTG 04)	17:41		18:13		19:47	20:18	20:38			
22	07:22	08:14 (WTG 04)	06:48		06:03		06:12	05:37	05:27			
	17:04	29 08:43 (WTG 04)	17:42		18:14		19:48	20:19	20:38			
23	07:21	08:15 (WTG 04)	06:46		06:01		06:11	05:36	05:28			
	17:05	28 08:43 (WTG 04)	17:43		18:15		19:49	20:20	20:38			
24	07:20	08:15 (WTG 04)	06:45		05:59		06:09	05:35	05:28			
	17:06	27 08:42 (WTG 04)	17:45		18:17		19:50	20:21	20:39			
25	07:20	08:15 (WTG 04)	06:43		05:58		06:08	05:34	05:28			
	17:07	27 08:42 (WTG 04)	17:46		18:18		19:51	20:22	20:39			
26	07:19	08:17 (WTG 04)	06:42		05:56		06:06	05:34	05:28			
	17:08	26 08:43 (WTG 04)	17:47		18:19		19:52	20:23	20:39			
27	07:18	08:17 (WTG 04)	06:40		05:54		06:05	05:33	05:29			
	17:10	25 08:42 (WTG 04)	17:48		18:20		19:53	20:24	20:39			
28	07:17	08:18 (WTG 04)	06:39		05:53		06:04	05:32	05:29			
	17:11	24 08:42 (WTG 04)	17:49		18:21		19:54	20:24	20:39			
29	07:16	08:19 (WTG 04)			06:51		06:02	05:32	05:30			
	17:12	22 08:41 (WTG 04)			19:22		19:56	20:25	20:39			
30	07:16	08:20 (WTG 04)			06:49		06:01	05:31	05:30			
	17:13	20 08:40 (WTG 04)			19:23		19:57	20:26	20:39			
31	07:15	08:22 (WTG 04)			06:48			05:31				
	17:15	17 08:39 (WTG 04)			19:24			20:27				
Ore potenziali eliofania	296		297		369		399	449	454			
Totale, caso peggiore	902		19		183							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 117 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (422)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre		Novembre		Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45		06:32 16:57		07:07 16:32	07:55 (WTG 04) 24 08:19 (WTG 04)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	10	07:52 (WTG 05) 08:02 (WTG 05)	06:33 16:56	07:08 16:32	07:55 (WTG 04) 24 08:19 (WTG 04)
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	14	07:49 (WTG 05) 08:03 (WTG 05)	06:34 16:55	07:09 16:32	07:56 (WTG 04) 23 08:19 (WTG 04)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	16	07:48 (WTG 05) 08:04 (WTG 05)	06:35 16:54	07:10 16:32	07:57 (WTG 04) 30 13:47 (WTG 03)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	17	07:47 (WTG 05) 08:04 (WTG 05)	06:36 16:52	07:11 16:31	07:58 (WTG 04) 35 13:50 (WTG 03)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	18	07:46 (WTG 05) 08:04 (WTG 05)	06:38 16:51	07:12 16:31	07:59 (WTG 04) 38 13:53 (WTG 03)
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	19	07:45 (WTG 05) 08:04 (WTG 05)	06:39 16:50	07:13 16:31	08:00 (WTG 04) 39 13:54 (WTG 03)
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	19	07:45 (WTG 05) 08:04 (WTG 05)	06:40 16:49	07:14 16:31	08:01 (WTG 04) 41 13:56 (WTG 03)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	18	07:46 (WTG 05) 08:04 (WTG 05)	06:41 16:48	07:15 16:31	08:02 (WTG 04) 42 13:57 (WTG 03)
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	17	07:46 (WTG 05) 08:03 (WTG 05)	06:42 16:47	07:16 16:31	08:03 (WTG 04) 42 13:59 (WTG 03)
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	15	07:47 (WTG 05) 08:02 (WTG 05)	06:44 16:46	07:16 16:31	08:03 (WTG 04) 42 13:59 (WTG 03)
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	12	07:48 (WTG 05) 08:00 (WTG 05)	06:45 16:45	07:17 16:31	08:05 (WTG 04) 41 14:00 (WTG 03)
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	7	07:50 (WTG 05) 07:57 (WTG 05)	06:46 16:44	07:18 16:31	08:06 (WTG 04) 41 14:01 (WTG 03)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	24	06:47 16:43	06:47 16:43	07:19 16:32	08:07 (WTG 04) 41 14:02 (WTG 03)
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	25	06:48 16:42	06:48 16:42	07:20 16:32	08:08 (WTG 04) 40 14:02 (WTG 03)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	26	06:50 16:41	06:50 16:41	07:20 16:32	08:09 (WTG 04) 39 14:03 (WTG 03)
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	27	06:51 16:40	06:51 16:40	07:21 16:32	08:11 (WTG 04) 39 14:05 (WTG 03)
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	27	06:52 16:40	06:52 16:40	07:22 16:33	08:12 (WTG 04) 37 14:05 (WTG 03)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	28	06:53 16:39	06:53 16:39	07:22 16:33	13:32 (WTG 03) 34 14:06 (WTG 03)
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	29	06:54 16:38	06:54 16:38	07:23 16:34	13:33 (WTG 03) 34 14:07 (WTG 03)
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	29	06:56 16:37	06:56 16:37	07:23 16:34	13:32 (WTG 03) 35 14:07 (WTG 03)
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	29	06:57 16:37	06:57 16:37	07:24 16:34	13:33 (WTG 03) 35 14:08 (WTG 03)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	29	06:58 16:36	06:58 16:36	07:24 16:35	13:33 (WTG 03) 35 14:08 (WTG 03)
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	28	06:59 16:36	06:59 16:36	07:25 16:36	13:34 (WTG 03) 34 14:08 (WTG 03)
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	28	07:00 16:35	07:00 16:35	07:25 16:36	08:16 (WTG 04) 37 14:09 (WTG 03)
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	28	07:01 16:34	07:01 16:34	07:26 16:37	08:15 (WTG 04) 39 14:09 (WTG 03)
27	05:50 20:24	06:21 19:44	06:53 18:51	07:26 17:04	27	07:03 16:34	07:03 16:34	07:26 16:37	08:15 (WTG 04) 38 14:08 (WTG 03)
28	05:51 20:24	06:22 19:42	06:54 18:50	07:27 17:02	27	07:04 16:34	07:04 16:34	07:26 16:38	08:15 (WTG 04) 40 14:09 (WTG 03)
29	05:52 20:23	06:23 19:41	06:55 18:48	07:28 17:01	26	07:05 16:33	07:05 16:33	07:27 16:39	08:15 (WTG 04) 40 14:09 (WTG 03)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	25	07:06 16:33	07:06 16:33	07:27 16:40	08:14 (WTG 04) 41 14:09 (WTG 03)
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 16:59		07:07 16:58	07:07 16:58	07:28 16:40	08:14 (WTG 04) 42 14:09 (WTG 03)
Ore potenziali eliofania	460	429	375	345	182	297	541	286	1142
Totale, caso peggiore									

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 118 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (423)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo			Aprile	Maggio	Giugno
1	07:27	13:06 (WTG 03)	07:14	07:49 (WTG 04)	06:37		06:46	05:59	05:30	
	16:41	64 14:10 (WTG 03)	17:16	25 08:14 (WTG 04)	17:51		19:25	19:58	20:28	
2	07:28	13:06 (WTG 03)	07:13	07:48 (WTG 04)	06:36		06:44	05:58	05:30	
	16:42	64 14:10 (WTG 03)	17:17	27 08:15 (WTG 04)	17:52		19:26	19:59	20:28	
3	07:28	13:07 (WTG 03)	07:12	07:48 (WTG 04)	06:34		06:42	05:57	05:29	
	16:43	63 14:10 (WTG 03)	17:18	27 08:15 (WTG 04)	17:53		19:27	20:00	20:29	
4	07:28	13:08 (WTG 03)	07:11	07:48 (WTG 04)	06:33		06:41	05:56	05:29	
	16:44	62 14:10 (WTG 03)	17:20	28 08:16 (WTG 04)	17:54		19:28	20:01	20:30	
5	07:28	13:09 (WTG 03)	07:10	07:48 (WTG 04)	06:31		06:39	05:54	05:28	
	16:45	61 14:10 (WTG 03)	17:21	28 08:16 (WTG 04)	17:55		19:30	20:02	20:31	
6	07:28	13:10 (WTG 03)	07:08	07:47 (WTG 04)	06:29		06:38	05:53	05:28	
	16:46	61 14:11 (WTG 03)	17:22	28 08:15 (WTG 04)	17:56		19:31	20:03	20:31	
7	07:28	13:11 (WTG 03)	07:07	07:48 (WTG 04)	06:28		06:36	05:52	05:28	
	16:47	60 14:11 (WTG 03)	17:24	28 08:16 (WTG 04)	17:58		19:32	20:04	20:32	
8	07:27	13:12 (WTG 03)	07:06	07:48 (WTG 04)	06:26		06:34	05:51	05:28	
	16:48	59 14:11 (WTG 03)	17:25	28 08:16 (WTG 04)	17:59		19:33	20:05	20:32	
9	07:27	13:12 (WTG 03)	07:05	07:49 (WTG 04)	06:24		06:33	05:49	05:27	
	16:49	58 14:10 (WTG 03)	17:26	27 08:16 (WTG 04)	18:00	9 06:56 (WTG 05)	19:34	20:06	20:33	
10	07:27	13:13 (WTG 03)	07:04	07:50 (WTG 04)	06:23		06:31	05:48	05:27	
	16:50	58 14:11 (WTG 03)	17:27	25 08:15 (WTG 04)	18:01	13 07:07 (WTG 05)	19:35	20:07	20:34	
11	07:27	13:15 (WTG 03)	07:03	07:50 (WTG 04)	06:21		06:29	05:47	05:27	
	16:51	56 14:11 (WTG 03)	17:29	24 08:14 (WTG 04)	18:02	16 07:08 (WTG 05)	19:36	20:08	20:34	
12	07:27	13:15 (WTG 03)	07:01	07:51 (WTG 04)	06:20		06:28	05:46	05:27	
	16:52	55 14:10 (WTG 03)	17:30	22 08:13 (WTG 04)	18:03	17 07:08 (WTG 05)	19:37	20:09	20:35	
13	07:26	13:17 (WTG 03)	07:00	07:52 (WTG 04)	06:18		06:26	05:45	05:27	
	16:53	53 14:10 (WTG 03)	17:31	20 08:12 (WTG 04)	18:04	18 07:09 (WTG 05)	19:38	20:10	20:35	
14	07:26	13:18 (WTG 03)	06:59	07:53 (WTG 04)	06:16		06:25	05:44	05:27	
	16:54	51 14:09 (WTG 03)	17:32	17 08:10 (WTG 04)	18:06	19 07:09 (WTG 05)	19:39	20:11	20:36	
15	07:26	13:19 (WTG 03)	06:57	07:56 (WTG 04)	06:15		06:23	05:43	05:27	
	16:55	50 14:09 (WTG 03)	17:34	12 08:08 (WTG 04)	18:07	18 07:08 (WTG 05)	19:40	20:12	20:36	
16	07:25	13:21 (WTG 03)	06:56	08:00 (WTG 04)	06:13		06:21	05:42	05:27	
	16:56	48 14:09 (WTG 03)	17:35	4 08:04 (WTG 04)	18:08	18 07:08 (WTG 05)	19:41	20:13	20:36	
17	07:25	13:22 (WTG 03)	06:55		06:11		06:20	05:41	05:27	
	16:58	46 14:08 (WTG 03)	17:36		18:09	17 07:07 (WTG 05)	19:43	20:14	20:37	
18	07:24	13:24 (WTG 03)	06:53		06:10		06:18	05:40	05:27	
	16:59	43 14:07 (WTG 03)	17:37		18:10	14 07:05 (WTG 05)	19:44	20:15	20:37	
19	07:24	13:26 (WTG 03)	06:52		06:08		06:17	05:39	05:27	
	17:00	41 14:07 (WTG 03)	17:39		18:11	11 07:04 (WTG 05)	19:45	20:16	20:38	
20	07:23	13:28 (WTG 03)	06:51		06:06		06:15	05:38	05:27	
	17:01	37 14:05 (WTG 03)	17:40		18:12	2 06:59 (WTG 05)	19:46	20:17	20:38	
21	07:22	13:30 (WTG 03)	06:49		06:04		06:14	05:37	05:27	
	17:02	33 14:03 (WTG 03)	17:41		18:13		19:47	20:18	20:38	
22	07:22	13:34 (WTG 03)	06:48		06:03		06:12	05:37	05:27	
	17:04	28 14:02 (WTG 03)	17:42		18:14		19:48	20:19	20:38	
23	07:21	13:37 (WTG 03)	06:46		06:01		06:11	05:36	05:28	
	17:05	22 13:59 (WTG 03)	17:43		18:15		19:49	20:20	20:38	
24	07:20	13:41 (WTG 03)	06:45		05:59		06:09	05:35	05:28	
	17:06	14 13:55 (WTG 03)	17:45		18:17		19:50	20:21	20:39	
25	07:20	07:57 (WTG 04)	06:43		05:58		06:08	05:34	05:28	
	17:07	5 08:02 (WTG 04)	17:46		18:18		19:51	20:22	20:39	
26	07:19	07:55 (WTG 04)	06:42		05:56		06:06	05:34	05:28	
	17:08	11 08:06 (WTG 04)	17:47		18:19		19:52	20:23	20:39	
27	07:18	07:53 (WTG 04)	06:40		05:54		06:05	05:33	05:29	
	17:10	15 08:08 (WTG 04)	17:48		18:20		19:53	20:24	20:39	
28	07:17	07:51 (WTG 04)	06:39		05:53		06:04	05:32	05:29	
	17:11	19 08:10 (WTG 04)	17:49		18:21		19:54	20:24	20:39	
29	07:16	07:50 (WTG 04)			06:51		06:02	05:32	05:30	
	17:12	21 08:11 (WTG 04)			19:22		19:56	20:25	20:39	
30	07:16	07:50 (WTG 04)			06:49		06:01	05:31	05:30	
	17:13	22 08:12 (WTG 04)			19:23		19:57	20:26	20:39	
31	07:15	07:49 (WTG 04)			06:48			05:31		
	17:15	24 08:13 (WTG 04)			19:24			20:27		
Ore potenziali eliofanìa	296		297		369		399	449	454	
Totale, caso peggiore	1304		370		172					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 118 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (423)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57	07:30 (WTG 05) 06:32	07:18 (WTG 04) 07:07
2	05:31 20:39	05:56 20:18	06:27 19:34	18:45 18:43	18 07:48 (WTG 05) 16:57 07:31 (WTG 05) 16:33	26 07:44 (WTG 04) 16:32 07:19 (WTG 04) 07:08
3	05:32 20:38	05:57 20:17	06:28 19:32	16 18:43 06:59	16 07:47 (WTG 05) 16:56 07:31 (WTG 05) 16:34	26 07:45 (WTG 04) 16:32 07:18 (WTG 04) 07:09
4	05:32 20:38	05:58 20:16	06:29 19:31	14 18:41 07:00	14 07:45 (WTG 05) 16:55 07:33 (WTG 05) 16:35	27 07:45 (WTG 04) 16:32 07:18 (WTG 04) 07:10
5	05:33 20:38	05:59 20:15	06:30 19:29	10 18:39 07:01	10 07:43 (WTG 05) 16:54 07:36 (WTG 05) 16:36	27 07:45 (WTG 04) 16:32 07:17 (WTG 04) 07:11
6	05:33 20:38	06:00 20:14	06:31 19:27	4 07:40 (WTG 05) 16:52	4 07:40 (WTG 05) 16:52	28 07:45 (WTG 04) 16:31 07:18 (WTG 04) 07:12
7	05:34 20:37	06:01 20:12	06:32 19:26	07:02 18:36	06:38 16:51	28 07:46 (WTG 04) 16:31 07:18 (WTG 04) 07:13
8	05:35 20:37	06:02 20:11	06:33 19:24	07:03 18:34	06:39 16:50	28 07:46 (WTG 04) 16:31 07:18 (WTG 04) 07:14
9	05:35 20:37	06:03 20:10	06:34 19:22	07:04 18:33	06:40 16:49	27 07:45 (WTG 04) 16:31 07:19 (WTG 04) 07:15
10	05:36 20:36	06:04 20:09	06:35 19:21	07:05 18:31	06:41 16:48	27 07:46 (WTG 04) 16:31 07:19 (WTG 04) 07:15
11	05:37 20:36	06:05 20:07	06:36 19:19	07:06 18:30	06:42 16:47	25 07:20 (WTG 04) 07:16 07:45 (WTG 04) 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:07 18:28	06:44 16:46	24 07:20 (WTG 04) 07:16 07:44 (WTG 04) 16:31
13	05:38 20:35	06:07 20:05	06:38 19:15	07:09 18:26	06:45 16:45	22 07:21 (WTG 04) 07:17 07:43 (WTG 04) 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:10 18:26	06:46 16:44	22 07:22 (WTG 04) 07:18 07:43 (WTG 04) 16:31
15	05:40 20:34	06:09 20:02	06:40 19:12	07:11 18:25	06:47 16:44	21 07:23 (WTG 04) 07:19 07:43 (WTG 04) 16:31
16	05:40 20:33	06:10 20:00	06:41 19:10	07:12 18:23	06:48 16:43	19 07:25 (WTG 04) 07:20 07:40 (WTG 04) 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:13 18:22	06:50 16:42	15 07:28 (WTG 04) 07:20 07:39 (WTG 04) 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:14 18:20	06:51 16:41	11 07:31 (WTG 04) 07:21 07:36 (WTG 04) 16:32
19	05:43 20:31	06:13 19:56	06:44 19:05	07:15 18:18	06:52 16:40	5 07:36 (WTG 04) 16:32 13:15 (WTG 03) 07:22
20	05:44 20:30	06:14 19:55	06:45 19:03	07:16 18:17	06:53 16:39	14 13:29 (WTG 03) 16:33 13:11 (WTG 03) 07:22
21	05:45 20:30	06:15 19:53	06:46 19:02	07:17 18:15	06:54 16:38	22 13:33 (WTG 03) 16:33 13:09 (WTG 03) 07:23
22	05:45 20:29	06:16 19:52	06:47 19:00	07:18 18:14	06:55 16:37	28 13:37 (WTG 03) 16:34 13:06 (WTG 03) 07:23
23	05:46 20:28	06:17 19:50	06:48 18:58	07:19 18:12	06:56 16:37	33 13:39 (WTG 03) 16:34 13:04 (WTG 03) 07:24
24	05:47 20:27	06:18 19:48	06:49 18:57	07:20 18:11	06:57 16:37	37 13:41 (WTG 03) 16:34 13:02 (WTG 03) 07:24
25	05:48 20:26	06:19 19:47	06:50 18:55	07:21 18:09	06:58 16:36	41 13:43 (WTG 03) 16:35 13:02 (WTG 03) 07:25
26	05:49 20:25	06:20 19:45	06:51 18:53	07:22 18:08	06:59 16:36	43 13:45 (WTG 03) 16:36 13:01 (WTG 03) 07:25
27	05:50 20:24	06:21 19:44	06:53 18:51	9 07:46 (WTG 05) 18:08 07:35 (WTG 05) 16:23	13 07:48 (WTG 05) 17:07 07:33 (WTG 05) 16:24	45 13:46 (WTG 03) 16:36 12:59 (WTG 03) 07:26
28	05:51 20:24	06:22 19:42	06:54 18:50	16 07:49 (WTG 05) 17:05 07:31 (WTG 05) 16:27	8 07:28 (WTG 04) 16:34 07:25 (WTG 04) 16:34	48 13:47 (WTG 03) 16:37 12:58 (WTG 03) 07:26
29	05:52 20:23	06:23 19:41	06:55 18:48	17 07:49 (WTG 05) 17:04 07:32 (WTG 05) 16:26	14 07:39 (WTG 04) 16:34 07:22 (WTG 04) 16:34	50 13:48 (WTG 03) 16:37 12:58 (WTG 03) 07:26
30	05:53 20:21	06:24 19:39	06:56 18:46	18 07:49 (WTG 05) 17:02 07:30 (WTG 05) 16:29	18 07:40 (WTG 04) 16:34 07:21 (WTG 04) 16:34	51 13:49 (WTG 03) 16:38 12:57 (WTG 03) 07:27
31	05:54 20:20	06:25 19:37		18 07:49 (WTG 05) 17:01 07:30 (WTG 05) 16:29	20 07:41 (WTG 04) 16:33 07:20 (WTG 04) 16:33	53 13:50 (WTG 03) 16:39 12:57 (WTG 03) 07:27
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore			110	170	906	1981

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 119 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (424)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo			Aprile	Maggio	Giugno
1	07:27	13:05 (WTG 03)	07:14	07:48 (WTG 04)	06:37		06:46	05:59	05:30	
	16:41	67 14:12 (WTG 03)	17:16	24 08:12 (WTG 04)	17:51		19:25	19:58	20:28	
2	07:28	13:05 (WTG 03)	07:13	07:47 (WTG 04)	06:36		06:44	05:58	05:30	
	16:42	67 14:12 (WTG 03)	17:17	26 08:13 (WTG 04)	17:52		19:26	19:59	20:28	
3	07:28	13:06 (WTG 03)	07:12	07:47 (WTG 04)	06:34		06:42	05:57	05:29	
	16:43	66 14:12 (WTG 03)	17:18	26 08:13 (WTG 04)	17:53		19:27	20:00	20:29	
4	07:28	13:07 (WTG 03)	07:11	07:47 (WTG 04)	06:33		06:41	05:56	05:29	
	16:44	65 14:12 (WTG 03)	17:20	27 08:14 (WTG 04)	17:54		19:28	20:01	20:30	
5	07:28	13:08 (WTG 03)	07:10	07:47 (WTG 04)	06:31		06:39	05:54	05:28	
	16:45	65 14:13 (WTG 03)	17:21	27 08:14 (WTG 04)	17:55		19:30	20:02	20:31	
6	07:28	13:09 (WTG 03)	07:08	07:46 (WTG 04)	06:29		06:38	05:53	05:28	
	16:46	64 14:13 (WTG 03)	17:22	28 08:14 (WTG 04)	17:56		19:31	20:03	20:31	
7	07:28	13:10 (WTG 03)	07:07	07:46 (WTG 04)	06:28		06:36	05:52	05:28	
	16:47	63 14:13 (WTG 03)	17:24	28 08:14 (WTG 04)	17:58		19:32	20:04	20:32	
8	07:27	13:11 (WTG 03)	07:06	07:46 (WTG 04)	06:26		06:34	05:51	05:28	
	16:48	63 14:14 (WTG 03)	17:25	28 08:14 (WTG 04)	17:59		19:33	20:05	20:32	
9	07:27	13:11 (WTG 03)	07:05	07:47 (WTG 04)	06:24		06:33	05:49	05:27	
	16:49	62 14:13 (WTG 03)	17:26	27 08:14 (WTG 04)	18:00	4	07:01 (WTG 05)	19:34	20:06	
10	07:27	13:12 (WTG 03)	07:04	07:48 (WTG 04)	06:23		06:54 (WTG 05)	06:31	05:48	
	16:50	61 14:13 (WTG 03)	17:27	26 08:14 (WTG 04)	18:01	11	07:05 (WTG 05)	19:35	20:07	
11	07:27	13:13 (WTG 03)	07:03	07:47 (WTG 04)	06:21		06:52 (WTG 05)	06:29	05:47	
	16:51	60 14:13 (WTG 03)	17:29	26 08:13 (WTG 04)	18:02	14	07:06 (WTG 05)	19:36	20:08	
12	07:27	13:14 (WTG 03)	07:01	07:48 (WTG 04)	06:20		06:50 (WTG 05)	06:28	05:46	
	16:52	59 14:13 (WTG 03)	17:30	25 08:13 (WTG 04)	18:03	17	07:07 (WTG 05)	19:37	20:09	
13	07:26	13:15 (WTG 03)	07:00	07:50 (WTG 04)	06:18		06:50 (WTG 05)	06:26	05:45	
	16:53	58 14:13 (WTG 03)	17:31	22 08:12 (WTG 04)	18:04	18	07:08 (WTG 05)	19:38	20:10	
14	07:26	13:16 (WTG 03)	06:59	07:50 (WTG 04)	06:16		06:49 (WTG 05)	06:25	05:44	
	16:54	56 14:12 (WTG 03)	17:32	20 08:10 (WTG 04)	18:06	18	07:07 (WTG 05)	19:39	20:11	
15	07:26	13:18 (WTG 03)	06:57	07:52 (WTG 04)	06:15		06:48 (WTG 05)	06:23	05:43	
	16:55	54 14:12 (WTG 03)	17:34	17 08:09 (WTG 04)	18:07	19	07:07 (WTG 05)	19:40	20:12	
16	07:25	13:20 (WTG 03)	06:56	07:55 (WTG 04)	06:13		06:49 (WTG 05)	06:21	05:42	
	16:56	52 14:12 (WTG 03)	17:35	12 08:07 (WTG 04)	18:08	18	07:07 (WTG 05)	19:41	20:13	
17	07:25	13:21 (WTG 03)	06:55		06:11		06:49 (WTG 05)	06:20	05:41	
	16:58	50 14:11 (WTG 03)	17:36		18:09	17	07:06 (WTG 05)	19:43	20:14	
18	07:24	13:22 (WTG 03)	06:53		06:10		06:49 (WTG 05)	06:18	05:40	
	16:59	48 14:10 (WTG 03)	17:37		18:10	15	07:04 (WTG 05)	19:44	20:15	
19	07:24	13:24 (WTG 03)	06:52		06:08		06:51 (WTG 05)	06:17	05:39	
	17:00	46 14:10 (WTG 03)	17:39		18:11	13	07:04 (WTG 05)	19:45	20:16	
20	07:23	13:25 (WTG 03)	06:51		06:06		06:53 (WTG 05)	06:15	05:38	
	17:01	44 14:09 (WTG 03)	17:40		18:12	8	07:01 (WTG 05)	19:46	20:17	
21	07:22	13:27 (WTG 03)	06:49		06:04			06:14	05:37	
	17:02	40 14:07 (WTG 03)	17:41		18:13			19:47	20:18	
22	07:22	13:30 (WTG 03)	06:48		06:03			06:12	05:37	
	17:04	37 14:07 (WTG 03)	17:42		18:14			19:48	20:19	
23	07:21	13:32 (WTG 03)	06:46		06:01			06:11	05:36	
	17:05	33 14:05 (WTG 03)	17:43		18:15			19:49	20:20	
24	07:20	13:35 (WTG 03)	06:45		05:59			06:09	05:35	
	17:06	28 14:03 (WTG 03)	17:45		18:17			19:50	20:21	
25	07:20	13:39 (WTG 03)	06:43		05:58			06:08	05:34	
	17:07	20 13:59 (WTG 03)	17:46		18:18			19:51	20:22	
26	07:19	07:57 (WTG 04)	06:42		05:56			06:06	05:34	
	17:08	13 13:55 (WTG 03)	17:47		18:19			19:52	20:23	
27	07:18	07:53 (WTG 04)	06:40		05:54			06:05	05:33	
	17:10	12 08:05 (WTG 04)	17:48		18:20			19:53	20:24	
28	07:17	07:51 (WTG 04)	06:39		05:53			06:04	05:32	
	17:11	16 08:07 (WTG 04)	17:49		18:21			19:54	20:24	
29	07:16	07:50 (WTG 04)			06:51			06:02	05:32	
	17:12	18 08:08 (WTG 04)			19:22			19:56	20:25	
30	07:16	07:49 (WTG 04)			06:49			06:01	05:31	
	17:13	21 08:10 (WTG 04)			19:23			19:57	20:26	
31	07:15	07:48 (WTG 04)			06:48				05:31	
	17:15	23 08:11 (WTG 04)			19:24				20:27	
Ore potenziali eliofanìa	296		297		369		399	449	454	
Totale, caso peggiore	1431		389		172					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 119 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (424)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	07:30 (WTG 05) 16:57	07:16 (WTG 04) 16:32	07:07 16:32	59	12:56 (WTG 03)
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	07:30 (WTG 05) 16:56	07:17 (WTG 04) 16:32	07:08 16:32	61	12:55 (WTG 03)
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	07:31 (WTG 05) 16:55	07:16 (WTG 04) 16:32	07:09 16:32	62	12:55 (WTG 03)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	07:33 (WTG 05) 16:54	07:16 (WTG 04) 16:32	07:10 16:32	63	12:55 (WTG 03)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	07:31 (WTG 05) 16:52	07:16 (WTG 04) 16:31	07:11 16:31	63	12:55 (WTG 03)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	07:30 (WTG 05) 16:51	07:17 (WTG 04) 16:31	07:12 16:31	64	12:55 (WTG 03)
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	07:30 (WTG 05) 16:50	07:17 (WTG 04) 16:31	07:13 16:31	65	12:55 (WTG 03)
8	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	07:30 (WTG 05) 16:49	07:17 (WTG 04) 16:31	07:14 16:31	65	12:55 (WTG 03)
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	07:30 (WTG 05) 16:48	07:18 (WTG 04) 16:31	07:15 16:31	66	12:55 (WTG 03)
10	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	07:30 (WTG 05) 16:47	07:19 (WTG 04) 16:31	07:16 16:31	67	12:55 (WTG 03)
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	07:30 (WTG 05) 16:46	07:19 (WTG 04) 16:31	07:16 16:31	67	12:55 (WTG 03)
12	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	07:30 (WTG 05) 16:45	07:20 (WTG 04) 16:31	07:17 16:31	67	12:55 (WTG 03)
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	07:30 (WTG 05) 16:44	07:22 (WTG 04) 16:31	07:18 16:31	67	12:56 (WTG 03)
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	07:30 (WTG 05) 16:43	07:23 (WTG 04) 16:32	07:19 16:32	68	12:56 (WTG 03)
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	07:30 (WTG 05) 16:42	07:25 (WTG 04) 16:32	07:20 16:32	68	12:56 (WTG 03)
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	07:30 (WTG 05) 16:41	07:30 (WTG 04) 16:32	07:20 16:32	69	12:56 (WTG 03)
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	07:30 (WTG 05) 16:40	13:13 (WTG 03) 16:32	07:21 16:32	69	12:57 (WTG 03)
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	07:30 (WTG 05) 16:39	13:09 (WTG 03) 16:33	07:22 16:33	69	12:57 (WTG 03)
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	07:30 (WTG 05) 16:38	13:06 (WTG 03) 16:33	07:22 16:33	69	12:58 (WTG 03)
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	07:30 (WTG 05) 16:37	13:39 (WTG 03) 16:34	07:23 16:34	68	12:59 (WTG 03)
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	07:30 (WTG 05) 16:37	13:03 (WTG 03) 16:34	07:23 16:34	68	12:59 (WTG 03)
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	07:30 (WTG 05) 16:37	13:43 (WTG 03) 16:34	07:24 16:34	68	12:59 (WTG 03)
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	07:30 (WTG 05) 16:36	13:45 (WTG 03) 16:35	07:24 16:35	69	13:00 (WTG 03)
24	05:47 20:27	06:18 19:48	06:49 18:57	07:22 18:08	07:30 (WTG 05) 16:36	13:00 (WTG 03) 16:36	07:25 16:36	68	13:00 (WTG 03)
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	07:30 (WTG 05) 16:35	13:48 (WTG 03) 16:36	07:25 16:36	68	13:01 (WTG 03)
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 18:06	07:30 (WTG 05) 16:34	12:59 (WTG 03) 16:37	07:26 16:37	69	13:01 (WTG 03)
27	05:50 20:24	06:21 19:44	06:53 18:51	07:25 18:05	07:30 (WTG 05) 16:34	13:50 (WTG 03) 16:37	07:26 16:37	69	13:01 (WTG 03)
28	05:51 20:24	06:22 19:42	06:54 18:50	07:26 18:04	07:30 (WTG 05) 16:34	13:51 (WTG 03) 16:38	07:26 16:38	69	13:03 (WTG 03)
29	05:52 20:23	06:23 19:41	06:55 18:48	07:27 18:03	07:30 (WTG 05) 16:33	12:56 (WTG 03) 16:39	07:27 16:39	68	13:03 (WTG 03)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 18:02	07:30 (WTG 05) 16:33	13:53 (WTG 03) 16:40	07:27 16:40	68	13:03 (WTG 03)
31	05:54 20:20	06:25 19:37		07:47 (WTG 05) 16:59	07:30 (WTG 05) 16:33	13:55 (WTG 03) 16:40	07:27 16:40	68	13:04 (WTG 03)
Ore potenziali eliofanìa	460	429	375	345	297	286	286	2067	
Totale, caso peggiore			119	182	994				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 120 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (425)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo			Aprile	Maggio	Giugno
1	07:27	13:11 (WTG 03)	07:14	07:49 (WTG 04)	06:37		06:46	05:59	05:30	
	16:41	67 14:18 (WTG 03)	17:16	26 08:15 (WTG 04)	17:51		19:25	19:58	20:28	
2	07:28	13:12 (WTG 03)	07:13	07:49 (WTG 04)	06:36		06:44	05:58	05:30	
	16:42	66 14:18 (WTG 03)	17:17	27 08:16 (WTG 04)	17:52		19:26	19:59	20:28	
3	07:28	13:13 (WTG 03)	07:12	07:49 (WTG 04)	06:34		06:42	05:57	05:29	
	16:43	65 14:18 (WTG 03)	17:18	27 08:16 (WTG 04)	17:53		19:27	20:00	20:29	
4	07:28	13:13 (WTG 03)	07:11	07:49 (WTG 04)	06:33		06:41	05:56	05:29	
	16:44	65 14:18 (WTG 03)	17:20	28 08:17 (WTG 04)	17:54		19:28	20:01	20:30	
5	07:28	13:14 (WTG 03)	07:10	07:49 (WTG 04)	06:31		06:39	05:54	05:28	
	16:45	65 14:19 (WTG 03)	17:21	28 08:17 (WTG 04)	17:55		19:30	20:02	20:31	
6	07:28	13:15 (WTG 03)	07:08	07:48 (WTG 04)	06:29		06:38	05:53	05:28	
	16:46	64 14:19 (WTG 03)	17:22	28 08:16 (WTG 04)	17:56		19:31	20:03	20:31	
7	07:28	13:16 (WTG 03)	07:07	07:48 (WTG 04)	06:28		06:36	05:52	05:28	
	16:47	63 14:19 (WTG 03)	17:24	28 08:16 (WTG 04)	17:58		19:32	20:04	20:32	
8	07:27	13:17 (WTG 03)	07:06	07:49 (WTG 04)	06:26		06:34	05:51	05:28	
	16:48	63 14:20 (WTG 03)	17:25	27 08:16 (WTG 04)	17:59		19:33	20:05	20:32	
9	07:27	13:17 (WTG 03)	07:05	07:50 (WTG 04)	06:24		06:33	05:49	05:27	
	16:49	62 14:19 (WTG 03)	17:26	26 08:16 (WTG 04)	18:00	7	07:04 (WTG 05)	19:34	20:06	20:33
10	07:27	13:19 (WTG 03)	07:04	07:50 (WTG 04)	06:23		06:55 (WTG 05)	06:31	05:48	05:27
	16:50	60 14:19 (WTG 03)	17:27	26 08:16 (WTG 04)	18:01	12	07:07 (WTG 05)	19:35	20:07	20:34
11	07:27	13:20 (WTG 03)	07:03	07:50 (WTG 04)	06:21		06:53 (WTG 05)	06:29	05:47	05:27
	16:51	59 14:19 (WTG 03)	17:29	25 08:15 (WTG 04)	18:02	15	07:08 (WTG 05)	19:36	20:08	20:34
12	07:27	13:20 (WTG 03)	07:01	07:51 (WTG 04)	06:20		06:51 (WTG 05)	06:28	05:46	05:27
	16:52	59 14:19 (WTG 03)	17:30	23 08:14 (WTG 04)	18:03	17	07:08 (WTG 05)	19:37	20:09	20:35
13	07:26	13:22 (WTG 03)	07:00	07:53 (WTG 04)	06:18		06:51 (WTG 05)	06:26	05:45	05:27
	16:53	57 14:19 (WTG 03)	17:31	20 08:13 (WTG 04)	18:04	18	07:09 (WTG 05)	19:38	20:10	20:35
14	07:26	13:22 (WTG 03)	06:59	07:54 (WTG 04)	06:16		06:50 (WTG 05)	06:25	05:44	05:27
	16:54	56 14:18 (WTG 03)	17:32	17 08:11 (WTG 04)	18:06	19	07:09 (WTG 05)	19:39	20:11	20:36
15	07:26	13:24 (WTG 03)	06:57	07:56 (WTG 04)	06:15		06:50 (WTG 05)	06:23	05:43	05:27
	16:55	54 14:18 (WTG 03)	17:34	13 08:09 (WTG 04)	18:07	18	07:08 (WTG 05)	19:40	20:12	20:36
16	07:25	13:26 (WTG 03)	06:56	08:00 (WTG 04)	06:13		06:50 (WTG 05)	06:21	05:42	05:27
	16:56	53 14:19 (WTG 03)	17:35	6 08:06 (WTG 04)	18:08	18	07:08 (WTG 05)	19:41	20:13	20:36
17	07:25	13:27 (WTG 03)	06:55		06:11		06:50 (WTG 05)	06:20	05:41	05:27
	16:58	51 14:18 (WTG 03)	17:36		18:09	17	07:07 (WTG 05)	19:43	20:14	20:37
18	07:24	13:28 (WTG 03)	06:53		06:10		06:51 (WTG 05)	06:18	05:40	05:27
	16:59	49 14:17 (WTG 03)	17:37		18:10	14	07:05 (WTG 05)	19:44	20:15	20:37
19	07:24	13:30 (WTG 03)	06:52		06:08		06:52 (WTG 05)	06:17	05:39	05:27
	17:00	47 14:17 (WTG 03)	17:39		18:11	12	07:04 (WTG 05)	19:45	20:16	20:38
20	07:23	13:31 (WTG 03)	06:51		06:06		06:55 (WTG 05)	06:15	05:38	05:27
	17:01	44 14:15 (WTG 03)	17:40		18:12	6	07:01 (WTG 05)	19:46	20:17	20:38
21	07:22	13:33 (WTG 03)	06:49		06:04			06:14	05:37	05:27
	17:02	41 14:14 (WTG 03)	17:41		18:13			19:47	20:18	20:38
22	07:22	13:35 (WTG 03)	06:48		06:03			06:12	05:37	05:27
	17:04	39 14:14 (WTG 03)	17:42		18:14			19:48	20:19	20:38
23	07:21	13:38 (WTG 03)	06:46		06:01			06:11	05:36	05:28
	17:05	34 14:12 (WTG 03)	17:43		18:15			19:49	20:20	20:38
24	07:20	13:40 (WTG 03)	06:45		05:59			06:09	05:35	05:28
	17:06	30 14:10 (WTG 03)	17:45		18:17			19:50	20:21	20:39
25	07:20	07:57 (WTG 04)	06:43		05:58			06:08	05:34	05:28
	17:07	30 14:07 (WTG 03)	17:46		18:18			19:51	20:22	20:39
26	07:19	07:55 (WTG 04)	06:42		05:56			06:06	05:34	05:28
	17:08	28 14:05 (WTG 03)	17:47		18:19			19:52	20:23	20:39
27	07:18	07:53 (WTG 04)	06:40		05:54			06:05	05:33	05:29
	17:10	16 08:09 (WTG 04)	17:48		18:20			19:53	20:24	20:39
28	07:17	07:52 (WTG 04)	06:39		05:53			06:04	05:32	05:29
	17:11	19 08:11 (WTG 04)	17:49		18:21			19:54	20:24	20:39
29	07:16	07:51 (WTG 04)			06:51			06:02	05:32	05:30
	17:12	21 08:12 (WTG 04)			19:22			19:56	20:25	20:39
30	07:16	07:50 (WTG 04)			06:49			06:01	05:31	05:30
	17:13	23 08:13 (WTG 04)			19:23			19:57	20:26	20:39
31	07:15	07:50 (WTG 04)			06:48				05:31	
	17:15	24 08:14 (WTG 04)			19:24				20:27	
Ore potenziali eliofania	296		297		369			399	449	454
Totale, caso peggiore	1474		375		173					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 120 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (425)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre		Dicembre		
1	05:31 20:39	05:55 19:36	06:26 19:36		06:57 18:45	18	07:30 (WTG 05) 16:57	26	07:19 (WTG 04) 16:32	59	13:02 (WTG 03) 14:01 (WTG 03)
2	05:31 20:39	05:56 19:34	06:27 19:34		06:58 18:43	16	07:31 (WTG 05) 16:56	27	07:19 (WTG 04) 16:32	60	13:02 (WTG 03) 14:02 (WTG 03)
3	05:32 20:38	05:57 19:32	06:28 19:32		06:59 18:41	13	07:32 (WTG 05) 16:55	27	07:19 (WTG 04) 16:32	62	13:01 (WTG 03) 14:03 (WTG 03)
4	05:32 20:38	05:58 19:31	06:29 19:31		07:00 18:39	10	07:33 (WTG 05) 16:54	28	07:18 (WTG 04) 16:32	63	13:01 (WTG 03) 14:04 (WTG 03)
5	05:33 20:38	05:59 19:29	06:30 19:29		07:01 18:38		06:36 16:52	28	07:18 (WTG 04) 16:31	63	13:01 (WTG 03) 14:04 (WTG 03)
6	05:33 20:38	06:00 19:27	06:31 19:27		07:02 18:36		06:38 16:51	28	07:19 (WTG 04) 16:31	64	13:01 (WTG 03) 14:05 (WTG 03)
7	05:34 20:37	06:01 19:26	06:32 19:26		07:03 18:34		06:39 16:50	27	07:19 (WTG 04) 16:31	65	13:01 (WTG 03) 14:06 (WTG 03)
8	05:35 20:37	06:02 19:24	06:33 19:24		07:04 18:33		06:40 16:49	27	07:19 (WTG 04) 16:31	64	13:02 (WTG 03) 14:06 (WTG 03)
9	05:35 20:37	06:03 19:22	06:34 19:22		07:05 18:31		06:41 16:48	26	07:20 (WTG 04) 16:31	65	13:02 (WTG 03) 14:07 (WTG 03)
10	05:36 20:36	06:04 19:21	06:35 19:21		07:06 18:30		06:42 16:47	26	07:20 (WTG 04) 16:31	66	13:02 (WTG 03) 14:08 (WTG 03)
11	05:37 20:36	06:05 19:19	06:36 19:19		07:07 18:28		06:44 16:46	24	07:21 (WTG 04) 16:31	67	13:01 (WTG 03) 14:08 (WTG 03)
12	05:37 20:35	06:06 19:17	06:37 19:17		07:09 18:26		06:45 16:45	23	07:21 (WTG 04) 16:31	66	13:02 (WTG 03) 14:08 (WTG 03)
13	05:38 20:35	06:07 19:15	06:38 19:15		07:10 18:25		06:46 16:44	21	07:23 (WTG 04) 16:31	67	13:02 (WTG 03) 14:09 (WTG 03)
14	05:39 20:34	06:08 19:14	06:39 19:14		07:11 18:23		06:47 16:43	19	07:24 (WTG 04) 16:32	67	13:03 (WTG 03) 14:10 (WTG 03)
15	05:40 20:34	06:09 19:12	06:40 19:12		07:12 18:22		06:48 16:42	16	07:25 (WTG 04) 16:32	68	13:02 (WTG 03) 14:10 (WTG 03)
16	05:40 20:33	06:10 19:10	06:41 19:10		07:13 18:20		06:50 16:41	29	07:28 (WTG 04) 16:32	68	13:03 (WTG 03) 14:11 (WTG 03)
17	05:41 20:33	06:11 19:09	06:42 19:09		07:14 18:18		06:51 16:40	30	07:31 (WTG 04) 16:32	67	13:04 (WTG 03) 14:11 (WTG 03)
18	05:42 20:32	06:12 19:07	06:43 19:07		07:15 18:17		06:52 16:40	30	13:14 (WTG 03) 16:33	67	13:04 (WTG 03) 14:11 (WTG 03)
19	05:43 20:31	06:13 19:05	06:44 19:05		07:16 18:15		06:53 16:39	34	13:12 (WTG 03) 16:33	68	13:04 (WTG 03) 14:12 (WTG 03)
20	05:44 20:30	06:14 19:03	06:45 19:03		07:17 18:14		06:54 16:38	38	13:11 (WTG 03) 16:34	68	13:05 (WTG 03) 14:13 (WTG 03)
21	05:45 20:30	06:15 19:02	06:46 19:02		07:19 18:12		06:56 16:37	41	13:09 (WTG 03) 16:34	68	13:05 (WTG 03) 14:13 (WTG 03)
22	05:45 20:29	06:16 19:00	06:47 19:00		07:20 18:11		06:57 16:37	44	13:07 (WTG 03) 16:34	68	13:06 (WTG 03) 14:14 (WTG 03)
23	05:46 20:28	06:17 18:58	06:48 18:58	2	07:21 18:09		06:58 16:36	47	13:06 (WTG 03) 16:35	68	13:06 (WTG 03) 14:14 (WTG 03)
24	05:47 20:27	06:18 18:57	06:49 18:57	10	07:22 18:08		06:59 16:36	49	13:06 (WTG 03) 16:36	68	13:06 (WTG 03) 14:14 (WTG 03)
25	05:48 20:26	06:19 18:55	06:50 18:55	14	07:23 17:07		07:00 16:35	51	13:05 (WTG 03) 16:36	67	13:08 (WTG 03) 14:15 (WTG 03)
26	05:49 20:25	06:20 18:53	06:51 18:53	16	07:24 17:05	8	07:01 16:34	53	13:04 (WTG 03) 16:37	67	13:08 (WTG 03) 14:15 (WTG 03)
27	05:50 20:24	06:21 18:51	06:53 18:51	17	07:25 17:04	15	07:03 16:34	54	13:03 (WTG 03) 16:37	68	13:08 (WTG 03) 14:16 (WTG 03)
28	05:51 20:24	06:22 18:50	06:54 18:50	18	07:26 17:02	18	07:04 16:34	56	13:02 (WTG 03) 16:38	68	13:09 (WTG 03) 14:17 (WTG 03)
29	05:52 20:23	06:23 18:48	06:55 18:48	18	07:27 17:01	21	07:05 16:33	57	13:02 (WTG 03) 16:39	67	13:10 (WTG 03) 14:17 (WTG 03)
30	05:53 20:21	06:24 18:46	06:56 18:46	19	07:28 17:00	23	07:06 16:33	59	13:02 (WTG 03) 16:40	67	13:10 (WTG 03) 14:17 (WTG 03)
31	05:54 20:20	06:25 19:37			06:30 16:59	25	07:07 16:33		14:01 (WTG 03) 16:40	66	13:11 (WTG 03) 14:17 (WTG 03)
Ore potenziali eliofanìa	460	429	375		345		297		286		
Totale, caso peggiore			114		167		1045		2046		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 121 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (426)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo			Aprile	Maggio	Giugno
1	07:27	13:29 (WTG 03)	07:14	07:51 (WTG 04)	06:37		06:46	05:59	05:30	
	16:41	69 14:38 (WTG 03)	17:16	27 08:18 (WTG 04)	17:51		19:25	19:58	20:28	
2	07:28	13:30 (WTG 03)	07:13	07:51 (WTG 04)	06:36		06:44	05:58	05:30	
	16:42	68 14:38 (WTG 03)	17:17	28 08:19 (WTG 04)	17:52		19:26	19:59	20:28	
3	07:28	13:30 (WTG 03)	07:12	07:51 (WTG 04)	06:34		06:42	05:57	05:29	
	16:43	68 14:38 (WTG 03)	17:18	28 08:19 (WTG 04)	17:53		19:27	20:00	20:29	
4	07:28	13:31 (WTG 03)	07:11	07:51 (WTG 04)	06:33		06:41	05:56	05:29	
	16:44	68 14:39 (WTG 03)	17:20	29 08:20 (WTG 04)	17:54		19:28	20:01	20:30	
5	07:28	13:32 (WTG 03)	07:10	07:51 (WTG 04)	06:31		06:39	05:54	05:28	
	16:45	67 14:39 (WTG 03)	17:21	29 08:20 (WTG 04)	17:55		19:30	20:02	20:31	
6	07:28	13:33 (WTG 03)	07:08	07:50 (WTG 04)	06:29		06:37	05:53	05:28	
	16:46	66 14:39 (WTG 03)	17:22	29 08:19 (WTG 04)	17:56		19:31	20:03	20:31	
7	07:28	13:33 (WTG 03)	07:07	07:51 (WTG 04)	06:28		06:36	05:52	05:28	
	16:47	67 14:40 (WTG 03)	17:24	28 08:19 (WTG 04)	17:58		19:32	20:04	20:32	
8	07:27	13:34 (WTG 03)	07:06	07:51 (WTG 04)	06:26		06:34	05:51	05:28	
	16:48	66 14:40 (WTG 03)	17:25	28 08:19 (WTG 04)	17:59		19:33	20:05	20:32	
9	07:27	13:34 (WTG 03)	07:05	07:52 (WTG 04)	06:24		06:33	05:49	05:27	
	16:49	66 14:40 (WTG 03)	17:26	27 08:19 (WTG 04)	18:00	5	07:03 (WTG 05)	19:34	20:06	20:33
10	07:27	13:35 (WTG 03)	07:04	07:53 (WTG 04)	06:23		06:55 (WTG 05)	06:31	05:48	05:27
	16:50	65 14:40 (WTG 03)	17:27	26 08:19 (WTG 04)	18:01	12	07:07 (WTG 05)	19:35	20:07	20:34
11	07:27	13:36 (WTG 03)	07:03	07:53 (WTG 04)	06:21		06:53 (WTG 05)	06:29	05:47	05:27
	16:51	65 14:41 (WTG 03)	17:29	24 08:17 (WTG 04)	18:02	15	07:08 (WTG 05)	19:36	20:08	20:34
12	07:27	13:37 (WTG 03)	07:01	07:54 (WTG 04)	06:20		06:51 (WTG 05)	06:28	05:46	05:27
	16:52	63 14:40 (WTG 03)	17:30	23 08:17 (WTG 04)	18:03	17	07:08 (WTG 05)	19:37	20:09	20:35
13	07:26	13:38 (WTG 03)	07:00	07:56 (WTG 04)	06:18		06:51 (WTG 05)	06:26	05:45	05:27
	16:53	62 14:40 (WTG 03)	17:31	20 08:16 (WTG 04)	18:04	18	07:09 (WTG 05)	19:38	20:10	20:35
14	07:26	13:38 (WTG 03)	06:59	07:57 (WTG 04)	06:16		06:50 (WTG 05)	06:25	05:44	05:27
	16:54	62 14:40 (WTG 03)	17:32	16 08:13 (WTG 04)	18:06	19	07:09 (WTG 05)	19:39	20:11	20:36
15	07:26	13:40 (WTG 03)	06:57	07:59 (WTG 04)	06:15		06:50 (WTG 05)	06:23	05:43	05:27
	16:55	60 14:40 (WTG 03)	17:34	12 08:11 (WTG 04)	18:07	19	07:09 (WTG 05)	19:40	20:12	20:36
16	07:25	13:41 (WTG 03)	06:56		06:13		06:50 (WTG 05)	06:21	05:42	05:27
	16:56	60 14:41 (WTG 03)	17:35		18:08	19	07:09 (WTG 05)	19:41	20:13	20:36
17	07:25	13:42 (WTG 03)	06:55		06:11		06:50 (WTG 05)	06:20	05:41	05:27
	16:58	58 14:40 (WTG 03)	17:36		18:09	18	07:08 (WTG 05)	19:43	20:14	20:37
18	07:24	13:42 (WTG 03)	06:53		06:10		06:50 (WTG 05)	06:18	05:40	05:27
	16:59	57 14:39 (WTG 03)	17:37		18:10	16	07:06 (WTG 05)	19:44	20:15	20:37
19	07:24	13:44 (WTG 03)	06:52		06:08		06:52 (WTG 05)	06:17	05:39	05:27
	17:00	56 14:40 (WTG 03)	17:39		18:11	13	07:05 (WTG 05)	19:45	20:16	20:38
20	07:23	13:45 (WTG 03)	06:51		06:06		06:53 (WTG 05)	06:15	05:38	05:27
	17:01	54 14:39 (WTG 03)	17:40		18:12	10	07:03 (WTG 05)	19:46	20:17	20:38
21	07:22	13:46 (WTG 03)	06:49		06:04			06:14	05:37	05:27
	17:02	52 14:38 (WTG 03)	17:41		18:13			19:47	20:18	20:38
22	07:22	13:48 (WTG 03)	06:48		06:03			06:12	05:37	05:27
	17:04	50 14:38 (WTG 03)	17:42		18:14			19:48	20:19	20:38
23	07:21	13:49 (WTG 03)	06:46		06:01			06:11	05:36	05:28
	17:05	48 14:37 (WTG 03)	17:43		18:15			19:49	20:20	20:38
24	07:20	07:58 (WTG 04)	06:45		05:59			06:09	05:35	05:28
	17:06	54 14:36 (WTG 03)	17:45		18:17			19:50	20:21	20:39
25	07:20	07:56 (WTG 04)	06:43		05:58			06:08	05:34	05:28
	17:07	57 14:35 (WTG 03)	17:46		18:18			19:51	20:22	20:39
26	07:19	07:55 (WTG 04)	06:42		05:56			06:06	05:34	05:28
	17:08	57 14:35 (WTG 03)	17:47		18:19			19:52	20:23	20:39
27	07:18	07:54 (WTG 04)	06:40		05:54			06:05	05:33	05:29
	17:10	56 14:33 (WTG 03)	17:48		18:20			19:53	20:24	20:39
28	07:17	07:53 (WTG 04)	06:39		05:53			06:04	05:32	05:29
	17:11	54 14:32 (WTG 03)	17:49		18:21			19:54	20:24	20:39
29	07:16	07:52 (WTG 04)			06:51			06:02	05:32	05:30
	17:12	50 14:29 (WTG 03)			19:22			19:56	20:25	20:39
30	07:16	07:52 (WTG 04)			06:49			06:01	05:31	05:30
	17:13	44 14:26 (WTG 03)			19:23			19:57	20:26	20:39
31	07:15	07:51 (WTG 04)			06:48				05:31	
	17:15	33 14:20 (WTG 03)			19:24				20:27	
Ore potenziali eliofanìa	296		297		369		399	449	454	
Totale, caso peggiore	1822		374		181					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 121 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (426)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre		Dicembre		
1	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45	17	07:31 (WTG 05) 16:57	27	07:21 (WTG 04) 16:32	64	13:19 (WTG 03) 14:23 (WTG 03)
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	16	07:31 (WTG 05) 16:56	27	07:22 (WTG 04) 16:32	65	13:18 (WTG 03) 14:23 (WTG 03)
3	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41	13	07:32 (WTG 05) 16:55	28	07:21 (WTG 04) 16:32	66	13:18 (WTG 03) 14:24 (WTG 03)
4	05:32 20:38	05:58 20:16	06:29 19:31		07:00 18:39	9	07:34 (WTG 05) 16:54	29	07:20 (WTG 04) 16:32	66	13:18 (WTG 03) 14:24 (WTG 03)
5	05:33 20:38	05:59 20:15	06:30 19:29		07:01 18:38		06:36 16:52	29	07:20 (WTG 04) 16:31	67	13:18 (WTG 03) 14:25 (WTG 03)
6	05:33 20:38	06:00 20:14	06:31 19:27		07:02 18:36		06:38 16:51	29	07:21 (WTG 04) 16:31	66	13:19 (WTG 03) 14:25 (WTG 03)
7	05:34 20:37	06:01 20:12	06:32 19:26		07:03 18:34		06:39 16:50	29	07:21 (WTG 04) 16:31	67	13:19 (WTG 03) 14:26 (WTG 03)
8	05:34 20:37	06:02 20:11	06:33 19:24		07:04 18:33		06:40 16:49	29	07:20 (WTG 04) 16:31	68	13:19 (WTG 03) 14:27 (WTG 03)
9	05:35 20:37	06:03 20:10	06:34 19:22		07:05 18:31		06:41 16:48	28	07:22 (WTG 04) 16:31	68	13:19 (WTG 03) 14:27 (WTG 03)
10	05:36 20:36	06:04 20:09	06:35 19:21		07:06 18:30		06:42 16:47	27	07:22 (WTG 04) 16:31	68	13:20 (WTG 03) 14:28 (WTG 03)
11	05:37 20:36	06:05 20:07	06:36 19:19		07:07 18:28		06:44 16:46	35	07:22 (WTG 04) 16:31	69	13:19 (WTG 03) 14:28 (WTG 03)
12	05:37 20:35	06:06 20:06	06:37 19:17		07:09 18:26		06:45 16:45	45	07:23 (WTG 04) 16:31	68	13:20 (WTG 03) 14:28 (WTG 03)
13	05:38 20:35	06:07 20:05	06:38 19:15		07:10 18:25		06:46 16:44	51	07:24 (WTG 04) 16:31	69	13:20 (WTG 03) 14:29 (WTG 03)
14	05:39 20:34	06:08 20:03	06:39 19:14		07:11 18:23		06:47 16:43	54	07:25 (WTG 04) 16:32	69	13:21 (WTG 03) 14:30 (WTG 03)
15	05:40 20:34	06:09 20:02	06:40 19:12		07:12 18:22		06:48 16:42	56	07:26 (WTG 04) 16:32	69	13:21 (WTG 03) 14:31 (WTG 03)
16	05:40 20:33	06:10 20:00	06:41 19:10		07:13 18:20		06:50 16:41	57	07:28 (WTG 04) 16:32	69	13:21 (WTG 03) 14:30 (WTG 03)
17	05:41 20:33	06:11 19:59	06:42 19:09		07:14 18:18		06:51 16:40	57	07:30 (WTG 04) 16:32	69	13:22 (WTG 03) 14:31 (WTG 03)
18	05:42 20:32	06:12 19:57	06:43 19:07		07:15 18:17		06:52 16:40	54	07:32 (WTG 04) 16:33	69	13:22 (WTG 03) 14:31 (WTG 03)
19	05:43 20:31	06:13 19:56	06:44 19:05		07:16 18:15		06:53 16:39	48	13:23 (WTG 03) 16:33	69	13:23 (WTG 03) 14:32 (WTG 03)
20	05:44 20:30	06:14 19:55	06:45 19:03		07:17 18:14		06:54 16:38	50	13:23 (WTG 03) 16:34	69	13:24 (WTG 03) 14:33 (WTG 03)
21	05:45 20:30	06:15 19:53	06:46 19:02		07:19 18:12		06:56 16:37	52	13:22 (WTG 03) 16:34	70	13:23 (WTG 03) 14:33 (WTG 03)
22	05:45 20:29	06:16 19:52	06:47 19:00		07:20 18:11		06:57 16:37	54	13:21 (WTG 03) 16:34	70	13:24 (WTG 03) 14:34 (WTG 03)
23	05:46 20:28	06:17 19:50	06:48 18:58	7	07:21 18:09		06:58 16:36	56	13:20 (WTG 03) 16:35	69	13:25 (WTG 03) 14:34 (WTG 03)
24	05:47 20:27	06:18 19:48	06:49 18:57	12	07:22 18:08		06:59 16:36	57	13:20 (WTG 03) 16:36	69	13:25 (WTG 03) 14:34 (WTG 03)
25	05:48 20:26	06:19 19:47	06:50 18:55	15	07:23 17:07		07:00 16:35	58	14:16 (WTG 03) 16:36	69	13:26 (WTG 03) 14:35 (WTG 03)
26	05:49 20:25	06:20 19:45	06:51 18:53	17	07:24 17:05	4	07:01 16:34	60	13:19 (WTG 03) 16:37	69	13:26 (WTG 03) 14:35 (WTG 03)
27	05:50 20:24	06:21 19:44	06:53 18:51	18	07:25 17:04	13	07:02 16:34	60	13:19 (WTG 03) 16:37	69	13:26 (WTG 03) 14:35 (WTG 03)
28	05:51 20:24	06:22 19:42	06:54 18:50	19	07:26 17:02	17	07:03 16:34	62	13:18 (WTG 03) 16:38	70	13:27 (WTG 03) 14:37 (WTG 03)
29	05:52 20:23	06:23 19:41	06:55 18:48	19	07:27 17:01	21	07:04 16:33	62	13:18 (WTG 03) 16:39	69	13:28 (WTG 03) 14:37 (WTG 03)
30	05:53 20:21	06:24 19:39	06:56 18:46	18	07:28 17:00	23	07:05 16:33	63	13:19 (WTG 03) 16:40	69	13:28 (WTG 03) 14:37 (WTG 03)
31	05:54 20:20	06:25 19:37			06:30 16:59	25	07:06 16:33		14:22 (WTG 03) 16:40	68	13:29 (WTG 03) 14:37 (WTG 03)
Ore potenziali eliofanìa	460	429	375		345		297		286		
Totale, caso peggiore			125		158		1373		2115		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 122 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (427)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo			Aprile	Maggio	Giugno
1	07:27	13:06 (WTG 03)	07:14	07:47 (WTG 04)	06:37		06:46	05:59	05:30	
	16:41	72 14:18 (WTG 03)	17:16	22 08:09 (WTG 04)	17:51		19:25	19:58	20:28	
2	07:28	13:06 (WTG 03)	07:13	07:46 (WTG 04)	06:36		06:44	05:58	05:30	
	16:42	72 14:18 (WTG 03)	17:17	24 08:10 (WTG 04)	17:52		19:26	19:59	20:28	
3	07:28	13:07 (WTG 03)	07:12	07:46 (WTG 04)	06:34		06:42	05:57	05:29	
	16:43	71 14:18 (WTG 03)	17:18	25 08:11 (WTG 04)	17:53		19:27	20:00	20:29	
4	07:28	13:08 (WTG 03)	07:11	07:46 (WTG 04)	06:33		06:41	05:56	05:29	
	16:44	71 14:19 (WTG 03)	17:20	26 08:12 (WTG 04)	17:54		19:28	20:01	20:30	
5	07:28	13:09 (WTG 03)	07:10	07:45 (WTG 04)	06:31		06:39	05:54	05:28	
	16:45	70 14:19 (WTG 03)	17:21	27 08:12 (WTG 04)	17:55		19:30	20:02	20:31	
6	07:28	13:09 (WTG 03)	07:08	07:44 (WTG 04)	06:29		06:38	05:53	05:28	
	16:46	70 14:19 (WTG 03)	17:22	28 08:12 (WTG 04)	17:56		19:31	20:03	20:31	
7	07:28	13:10 (WTG 03)	07:07	07:44 (WTG 04)	06:28		06:36	05:52	05:28	
	16:47	70 14:20 (WTG 03)	17:24	28 08:12 (WTG 04)	17:58		19:32	20:04	20:32	
8	07:27	13:11 (WTG 03)	07:06	07:45 (WTG 04)	06:26		06:34	05:51	05:28	
	16:48	69 14:20 (WTG 03)	17:25	28 08:13 (WTG 04)	17:59		19:33	20:05	20:32	
9	07:27	13:11 (WTG 03)	07:05	07:45 (WTG 04)	06:24		06:33	05:49	05:27	
	16:49	68 14:19 (WTG 03)	17:26	28 08:13 (WTG 04)	18:00		19:34	20:06	20:33	
10	07:27	13:12 (WTG 03)	07:04	07:45 (WTG 04)	06:23	06:56 (WTG 05)	06:31	05:48	05:27	
	16:50	68 14:20 (WTG 03)	17:27	28 08:13 (WTG 04)	18:01	5 07:01 (WTG 05)	19:35	20:07	20:34	
11	07:27	13:14 (WTG 03)	07:03	07:45 (WTG 04)	06:21	06:52 (WTG 05)	06:29	05:47	05:27	
	16:51	66 14:20 (WTG 03)	17:29	27 08:12 (WTG 04)	18:02	11 07:03 (WTG 05)	19:36	20:08	20:34	
12	07:27	13:14 (WTG 03)	07:01	07:46 (WTG 04)	06:20	06:50 (WTG 05)	06:28	05:46	05:27	
	16:52	65 14:19 (WTG 03)	17:30	26 08:12 (WTG 04)	18:03	14 07:04 (WTG 05)	19:37	20:09	20:35	
13	07:26	13:15 (WTG 03)	07:00	07:47 (WTG 04)	06:18	06:49 (WTG 05)	06:26	05:45	05:27	
	16:53	65 14:20 (WTG 03)	17:31	24 08:11 (WTG 04)	18:04	17 07:06 (WTG 05)	19:38	20:10	20:35	
14	07:26	13:16 (WTG 03)	06:59	07:47 (WTG 04)	06:16	06:48 (WTG 05)	06:25	05:44	05:27	
	16:54	63 14:19 (WTG 03)	17:32	23 08:10 (WTG 04)	18:06	18 07:06 (WTG 05)	19:39	20:11	20:36	
15	07:26	13:17 (WTG 03)	06:57	07:48 (WTG 04)	06:15	06:47 (WTG 05)	06:23	05:43	05:27	
	16:55	62 14:19 (WTG 03)	17:34	21 08:09 (WTG 04)	18:07	19 07:06 (WTG 05)	19:40	20:12	20:36	
16	07:25	13:19 (WTG 03)	06:56	07:50 (WTG 04)	06:13	06:48 (WTG 05)	06:21	05:42	05:27	
	16:56	61 14:20 (WTG 03)	17:35	18 08:08 (WTG 04)	18:08	18 07:06 (WTG 05)	19:41	20:13	20:36	
17	07:25	13:20 (WTG 03)	06:55	07:52 (WTG 04)	06:11	06:47 (WTG 05)	06:20	05:41	05:27	
	16:58	59 14:19 (WTG 03)	17:36	13 08:05 (WTG 04)	18:09	18 07:05 (WTG 05)	19:43	20:14	20:37	
18	07:24	13:20 (WTG 03)	06:53	07:56 (WTG 04)	06:10	06:47 (WTG 05)	06:18	05:40	05:27	
	16:59	58 14:18 (WTG 03)	17:37	6 08:02 (WTG 04)	18:10	17 07:04 (WTG 05)	19:44	20:15	20:37	
19	07:24	13:22 (WTG 03)	06:52		06:08	06:48 (WTG 05)	06:17	05:39	05:27	
	17:00	56 14:18 (WTG 03)	17:39		18:11	15 07:03 (WTG 05)	19:45	20:16	20:38	
20	07:23	13:23 (WTG 03)	06:51		06:06	06:49 (WTG 05)	06:15	05:38	05:27	
	17:01	55 14:18 (WTG 03)	17:40		18:12	12 07:01 (WTG 05)	19:46	20:17	20:38	
21	07:22	13:25 (WTG 03)	06:49		06:04	06:51 (WTG 05)	06:14	05:37	05:27	
	17:02	52 14:17 (WTG 03)	17:41		18:13	7 06:58 (WTG 05)	19:47	20:18	20:38	
22	07:22	13:27 (WTG 03)	06:48		06:03		06:12	05:37	05:27	
	17:04	50 14:17 (WTG 03)	17:42		18:14		19:48	20:19	20:38	
23	07:21	13:28 (WTG 03)	06:46		06:01		06:11	05:36	05:28	
	17:05	47 14:15 (WTG 03)	17:43		18:15		19:49	20:20	20:38	
24	07:20	13:30 (WTG 03)	06:45		05:59		06:09	05:35	05:28	
	17:06	44 14:14 (WTG 03)	17:45		18:17		19:50	20:21	20:39	
25	07:20	13:32 (WTG 03)	06:43		05:58		06:08	05:34	05:28	
	17:07	41 14:13 (WTG 03)	17:46		18:18		19:51	20:22	20:39	
26	07:19	13:35 (WTG 03)	06:42		05:56		06:06	05:34	05:28	
	17:08	37 14:12 (WTG 03)	17:47		18:19		19:52	20:23	20:39	
27	07:18	13:38 (WTG 03)	06:40		05:54		06:05	05:33	05:29	
	17:10	32 14:10 (WTG 03)	17:48		18:20		19:53	20:24	20:39	
28	07:17	07:53 (WTG 04)	06:39		05:53		06:04	05:32	05:29	
	17:11	35 14:07 (WTG 03)	17:49		18:21		19:54	20:24	20:39	
29	07:16	07:51 (WTG 04)			06:51		06:02	05:32	05:30	
	17:12	31 14:04 (WTG 03)			19:22		19:56	20:25	20:39	
30	07:16	07:49 (WTG 04)			06:49		06:01	05:31	05:30	
	17:13	17 08:06 (WTG 04)			19:23		19:57	20:26	20:39	
31	07:15	07:48 (WTG 04)			06:48			05:31		
	17:15	20 08:08 (WTG 04)			19:24			20:27		
Ore potenziali eliofanìa	296		297		369		399	449	454	
Totale, caso peggiore	1717		422		171					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 122 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (427)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 19:36	06:26 19:36	06:57 18:45	07:29 (WTG 05) 16:57	07:14 (WTG 04) 16:32
2	05:31 20:39	05:56 19:34	06:27 19:34	06:58 18:43	07:44 (WTG 05) 16:57	07:15 (WTG 04) 16:32
3	05:32 20:38	05:57 19:32	06:28 19:32	06:59 18:41	07:30 (WTG 05) 16:56	07:14 (WTG 04) 16:32
4	05:32 20:38	05:58 19:31	06:29 19:31	07:00 18:39	07:32 (WTG 05) 16:55	07:14 (WTG 04) 16:32
5	05:33 20:38	05:59 19:29	06:30 19:29	07:01 18:38	07:40 (WTG 05) 16:52	07:14 (WTG 04) 16:31
6	05:33 20:38	06:00 19:27	06:31 19:27	07:02 18:36	07:32 (WTG 05) 16:51	07:15 (WTG 04) 16:31
7	05:34 20:37	06:01 19:26	06:32 19:26	07:03 18:34	07:42 (WTG 05) 16:50	07:15 (WTG 04) 16:31
8	05:35 20:37	06:02 19:24	06:33 19:24	07:04 18:33	07:42 (WTG 05) 16:50	07:16 (WTG 04) 16:31
9	05:35 20:37	06:03 19:22	06:34 19:22	07:05 18:31	07:44 (WTG 05) 16:49	07:17 (WTG 04) 16:31
10	05:36 20:36	06:04 19:21	06:35 19:21	07:06 18:30	07:44 (WTG 05) 16:48	07:18 (WTG 04) 16:31
11	05:37 20:36	06:05 19:19	06:36 19:19	07:07 18:28	07:46 (WTG 05) 16:47	07:19 (WTG 04) 16:31
12	05:37 20:35	06:06 19:17	06:37 19:17	07:09 18:26	07:48 (WTG 05) 16:46	07:20 (WTG 04) 16:31
13	05:38 20:35	06:07 19:15	06:38 19:15	07:10 18:25	07:50 (WTG 05) 16:45	07:23 (WTG 04) 16:31
14	05:39 20:34	06:08 19:14	06:39 19:14	07:11 18:23	07:52 (WTG 05) 16:44	07:25 (WTG 04) 16:31
15	05:40 20:34	06:09 19:12	06:40 19:12	07:12 18:22	07:54 (WTG 05) 16:43	07:27 (WTG 04) 16:32
16	05:40 20:33	06:10 19:10	06:41 19:10	07:13 18:20	07:56 (WTG 05) 16:42	07:29 (WTG 04) 16:32
17	05:41 20:33	06:11 19:09	06:42 19:09	07:14 18:18	07:58 (WTG 05) 16:41	07:31 (WTG 04) 16:32
18	05:42 20:32	06:12 19:07	06:43 19:07	07:15 18:17	08:00 (WTG 05) 16:40	07:34 (WTG 04) 16:32
19	05:43 20:31	06:13 19:05	06:44 19:05	07:16 18:15	08:02 (WTG 05) 16:39	07:36 (WTG 04) 16:33
20	05:44 20:30	06:14 19:03	06:45 19:03	07:17 18:14	08:04 (WTG 05) 16:38	07:38 (WTG 04) 16:34
21	05:45 20:30	06:15 19:02	06:46 19:02	07:19 18:12	08:06 (WTG 05) 16:37	07:40 (WTG 04) 16:34
22	05:45 20:29	06:16 19:00	06:47 19:00	07:20 18:11	08:08 (WTG 05) 16:36	07:42 (WTG 04) 16:36
23	05:46 20:28	06:17 18:58	06:48 18:58	07:21 18:09	08:10 (WTG 05) 16:35	07:44 (WTG 04) 16:35
24	05:47 20:27	06:18 18:57	06:49 18:57	07:22 18:08	08:12 (WTG 05) 16:34	07:46 (WTG 04) 16:36
25	05:48 20:26	06:19 18:55	06:50 18:55	07:23 18:07	08:14 (WTG 05) 16:33	07:48 (WTG 04) 16:36
26	05:49 20:25	06:20 18:53	06:51 18:53	07:24 18:05	08:16 (WTG 05) 16:32	07:50 (WTG 04) 16:36
27	05:50 20:24	06:21 18:51	06:53 18:51	07:25 18:04	08:18 (WTG 05) 16:31	07:52 (WTG 04) 16:36
28	05:51 20:24	06:22 18:50	06:54 18:50	07:26 18:03	08:20 (WTG 05) 16:30	07:54 (WTG 04) 16:36
29	05:52 20:23	06:23 18:48	06:55 18:48	07:27 18:02	08:22 (WTG 05) 16:29	07:56 (WTG 04) 16:37
30	05:53 20:21	06:24 18:46	06:56 18:46	07:28 18:01	08:24 (WTG 05) 16:28	07:58 (WTG 04) 16:37
31	05:54 20:20	06:25 19:37		06:30 16:59	07:15 (WTG 04) 07:42 (WTG 04)	
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore			136	202	1216	2220

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 123 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (428)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:11 (WTG 06)	07:14	06:37			06:46	07:39 (WTG 04)	05:59	18:20 (WTG 03)	05:30	
	16:41	27 08:38 (WTG 06)	17:16	17:51			19:25	19:03 (WTG 03)	19:58	58 19:18 (WTG 03)	20:28	
2	07:28	08:12 (WTG 06)	07:13	06:36			06:44	07:44 (WTG 04)	05:58		18:21 (WTG 03)	05:30
	16:42	26 08:38 (WTG 06)	17:17	17:52			19:26	19:05 (WTG 03)	19:59	56 19:17 (WTG 03)	20:28	
3	07:28	08:13 (WTG 06)	07:12	06:34			06:42	18:33 (WTG 03)	05:57		18:20 (WTG 03)	05:29
	16:43	26 08:39 (WTG 06)	17:18	17:53			19:27	19:06 (WTG 03)	20:00	56 19:16 (WTG 03)	20:29	
4	07:28	08:13 (WTG 06)	07:11	06:33			06:41	18:30 (WTG 03)	05:56		18:21 (WTG 03)	05:29
	16:44	26 08:39 (WTG 06)	17:20	17:54			19:28	19:07 (WTG 03)	20:01	54 19:15 (WTG 03)	20:30	
5	07:28	08:14 (WTG 06)	07:10	06:31			06:39	18:29 (WTG 03)	05:54		18:22 (WTG 03)	05:28
	16:45	25 08:39 (WTG 06)	17:21	17:55			19:30	19:08 (WTG 03)	20:02	52 19:14 (WTG 03)	20:31	
6	07:28	08:15 (WTG 06)	07:08	06:29		06:49 (WTG 04)	06:37	18:27 (WTG 03)	05:53		18:23 (WTG 03)	05:28
	16:46	24 08:39 (WTG 06)	17:22	17:56	16	07:05 (WTG 04)	19:31	19:09 (WTG 03)	20:03	50 19:13 (WTG 03)	20:31	
7	07:28	08:16 (WTG 06)	07:07	06:28		06:47 (WTG 04)	06:36	18:26 (WTG 03)	05:52		18:25 (WTG 03)	05:28
	16:47	24 08:40 (WTG 06)	17:24	17:58	21	07:08 (WTG 04)	19:32	19:10 (WTG 03)	20:04	48 19:13 (WTG 03)	20:32	
8	07:27	08:16 (WTG 06)	07:06	06:26		06:26	06:34	06:57 (WTG 05)	05:51		18:26 (WTG 03)	05:28
	16:48	23 08:39 (WTG 06)	17:25	17:59	25	07:10 (WTG 04)	19:33	19:11 (WTG 03)	20:05	46 19:12 (WTG 03)	20:32	
9	07:27	08:17 (WTG 06)	07:05	06:24		06:43 (WTG 04)	06:33	06:54 (WTG 05)	05:49		18:26 (WTG 03)	05:27
	16:49	22 08:39 (WTG 06)	17:26	18:00	28	07:11 (WTG 04)	19:34	19:12 (WTG 03)	20:06	43 19:09 (WTG 03)	20:33	
10	07:27	08:18 (WTG 06)	07:04	06:23		06:42 (WTG 04)	06:31	06:52 (WTG 05)	05:48		18:27 (WTG 03)	05:27
	16:50	21 08:39 (WTG 06)	17:27	18:01	31	07:13 (WTG 04)	19:35	19:14 (WTG 03)	20:07	41 19:08 (WTG 03)	20:34	
11	07:27	08:19 (WTG 06)	07:03	06:21		06:40 (WTG 04)	06:29	06:51 (WTG 05)	05:47		18:29 (WTG 03)	05:27
	16:51	20 08:39 (WTG 06)	17:29	18:02	34	07:14 (WTG 04)	19:36	19:14 (WTG 03)	20:08	38 19:07 (WTG 03)	20:34	
12	07:27	08:20 (WTG 06)	07:01	06:20		06:38 (WTG 04)	06:28	06:49 (WTG 05)	05:46		18:30 (WTG 03)	05:27
	16:52	18 08:38 (WTG 06)	17:30	18:03	36	07:14 (WTG 04)	19:37	19:15 (WTG 03)	20:09	35 19:05 (WTG 03)	20:35	
13	07:26	08:21 (WTG 06)	07:00	06:18		06:37 (WTG 04)	06:26	06:49 (WTG 05)	05:45		18:32 (WTG 03)	05:27
	16:53	17 08:38 (WTG 06)	17:31	18:04	39	07:16 (WTG 04)	19:38	19:16 (WTG 03)	20:10	32 19:04 (WTG 03)	20:35	
14	07:26	08:22 (WTG 06)	06:59	06:16		06:35 (WTG 04)	06:25	06:48 (WTG 05)	05:44		18:34 (WTG 03)	05:27
	16:54	15 08:37 (WTG 06)	17:32	18:05	41	07:16 (WTG 04)	19:39	19:17 (WTG 03)	20:11	28 19:02 (WTG 03)	20:36	
15	07:26	08:25 (WTG 06)	06:57	06:15		06:33 (WTG 04)	06:23	06:48 (WTG 05)	05:43		18:36 (WTG 03)	05:27
	16:55	11 08:39 (WTG 06)	17:34	18:07	43	07:16 (WTG 04)	19:40	19:19 (WTG 03)	20:12	24 19:00 (WTG 03)	20:36	
16	07:25	08:27 (WTG 06)	06:56	06:13		06:33 (WTG 04)	06:21	06:47 (WTG 05)	05:42		18:39 (WTG 03)	05:27
	16:56	6 08:33 (WTG 06)	17:35	18:08	44	07:17 (WTG 04)	19:41	19:19 (WTG 03)	20:13	18 18:57 (WTG 03)	20:36	
17	07:25		06:55	06:11		06:32 (WTG 04)	06:20	06:48 (WTG 05)	05:41		18:44 (WTG 03)	05:27
	16:58		17:36	18:09	44	07:16 (WTG 04)	19:43	19:21 (WTG 03)	20:14	9 18:53 (WTG 03)	20:37	
18	07:24		06:53	06:09		06:32 (WTG 04)	06:18	06:47 (WTG 05)	05:40		05:27	
	16:59		17:37	18:10	44	07:16 (WTG 04)	19:44	19:21 (WTG 03)	20:15		20:37	
19	07:24		06:52	06:08		06:32 (WTG 04)	06:17	06:48 (WTG 05)	05:39		05:27	
	17:00		17:39	18:11	44	07:16 (WTG 04)	19:45	19:23 (WTG 03)	20:16		20:37	
20	07:23		06:51	06:06		06:31 (WTG 04)	06:15	06:48 (WTG 05)	05:38		05:27	
	17:01		17:40	18:12	45	07:16 (WTG 04)	19:46	19:23 (WTG 03)	20:17		20:38	
21	07:22		06:49	06:04		06:31 (WTG 04)	06:14	06:50 (WTG 05)	05:37		05:27	
	17:02		17:41	18:13	44	07:15 (WTG 04)	19:47	19:23 (WTG 03)	20:18		20:38	
22	07:22		06:48	06:03		06:31 (WTG 04)	06:12	06:50 (WTG 05)	05:37		05:27	
	17:04		17:42	18:14	43	07:14 (WTG 04)	19:48	19:22 (WTG 03)	20:19		20:38	
23	07:21		06:46	06:01		06:31 (WTG 04)	06:11	06:53 (WTG 05)	05:36		05:28	
	17:05		17:43	18:15	43	07:14 (WTG 04)	19:49	19:22 (WTG 03)	20:20		20:38	
24	07:20		06:45	05:59		06:31 (WTG 04)	06:09	18:17 (WTG 03)	05:35		05:28	
	17:06		17:45	18:17	42	07:13 (WTG 04)	19:50	19:21 (WTG 03)	20:21		20:39	
25	07:20		06:43	05:58		06:31 (WTG 04)	06:08	18:18 (WTG 03)	05:34		05:28	
	17:07		17:46	18:18	40	07:11 (WTG 04)	19:51	19:21 (WTG 03)	20:22		20:39	
26	07:19		06:42	05:56		06:32 (WTG 04)	06:06	18:18 (WTG 03)	05:34		05:28	
	17:08		17:47	18:19	39	07:11 (WTG 04)	19:52	19:21 (WTG 03)	20:23		20:39	
27	07:18		06:40	05:54		06:33 (WTG 04)	06:05	18:18 (WTG 03)	05:33		05:29	
	17:10		17:48	18:20	36	07:09 (WTG 04)	19:53	19:20 (WTG 03)	20:24		20:39	
28	07:17		06:39	05:53		06:33 (WTG 04)	06:04	18:18 (WTG 03)	05:32		05:29	
	17:11		17:49	18:21	35	07:08 (WTG 04)	19:54	19:20 (WTG 03)	20:24		20:39	
29	07:16			06:51		07:34 (WTG 04)	06:02	18:18 (WTG 03)	05:32		05:30	
	17:12			19:22	41	19:00 (WTG 03)	19:56	19:19 (WTG 03)	20:25		20:39	
30	07:16			06:49		07:36 (WTG 04)	06:01	18:19 (WTG 03)	05:31		05:30	
	17:13			19:23	46	19:02 (WTG 03)	19:57	19:18 (WTG 03)	20:26		20:39	
31	07:15			06:48		07:37 (WTG 04)			05:31			
	17:15			19:24	47	19:03 (WTG 03)			20:27			
Ore potenziali eliofanìa	296		297	369			399		449		688	454
Totale, caso peggiore	331			991			1943					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)





SHADOW - Calendario

Recettore d'ombra: 124 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (429)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:14 (WTG 06)	07:14	06:37		06:46	07:43 (WTG 04)	05:59	18:21 (WTG 03)	05:30	
	16:41	25 08:39 (WTG 06)	17:16	17:51		19:25	44 19:03 (WTG 03)	19:58	53 19:14 (WTG 03)	20:28	
2	07:28	08:14 (WTG 06)	07:13	06:36		06:44	18:32 (WTG 03)	05:58	18:22 (WTG 03)	05:30	
	16:42	25 08:39 (WTG 06)	17:17	17:52		19:26	33 19:05 (WTG 03)	19:59	51 19:13 (WTG 03)	20:28	
3	07:28	08:15 (WTG 06)	07:12	06:34		06:42	18:30 (WTG 03)	05:57	18:22 (WTG 03)	05:29	
	16:43	25 08:40 (WTG 06)	17:18	17:53		19:27	36 19:06 (WTG 03)	20:00	50 19:12 (WTG 03)	20:29	
4	07:28	08:16 (WTG 06)	07:11	06:33		06:41	18:28 (WTG 03)	05:56	18:24 (WTG 03)	05:29	
	16:44	24 08:40 (WTG 06)	17:20	17:54		19:28	39 19:07 (WTG 03)	20:01	47 19:11 (WTG 03)	20:30	
5	07:28	08:16 (WTG 06)	07:10	06:31		06:39	18:27 (WTG 03)	05:54	18:25 (WTG 03)	05:28	
	16:45	24 08:40 (WTG 06)	17:21	17:55	16 06:51 (WTG 04)	19:30	41 19:08 (WTG 03)	20:02	45 19:10 (WTG 03)	20:31	
6	07:28	08:17 (WTG 06)	07:08	06:29		06:37	18:25 (WTG 03)	05:53	18:26 (WTG 03)	05:28	
	16:46	23 08:40 (WTG 06)	17:22	17:56	22 07:10 (WTG 04)	19:31	44 19:09 (WTG 03)	20:03	43 19:09 (WTG 03)	20:31	
7	07:28	08:18 (WTG 06)	07:07	06:28		06:36	18:24 (WTG 03)	05:52	18:28 (WTG 03)	05:28	
	16:47	22 08:40 (WTG 06)	17:24	17:58	26 07:13 (WTG 04)	19:32	46 19:10 (WTG 03)	20:04	39 19:07 (WTG 03)	20:32	
8	07:27	08:18 (WTG 06)	07:06	06:26		06:34	18:23 (WTG 03)	05:51	18:29 (WTG 03)	05:28	
	16:48	22 08:40 (WTG 06)	17:25	17:59	29 07:14 (WTG 04)	19:33	58 19:11 (WTG 03)	20:05	37 19:06 (WTG 03)	20:32	
9	07:27	08:20 (WTG 06)	07:05	06:24		06:33	18:22 (WTG 03)	05:49	18:30 (WTG 03)	05:27	
	16:49	20 08:40 (WTG 06)	17:26	18:00	32 07:15 (WTG 04)	19:34	65 19:12 (WTG 03)	20:06	34 19:04 (WTG 03)	20:33	
10	07:27	08:21 (WTG 06)	07:04	06:23		06:31	18:21 (WTG 03)	05:48	18:32 (WTG 03)	05:27	
	16:50	19 08:40 (WTG 06)	17:27	18:01	34 07:16 (WTG 04)	19:35	70 19:14 (WTG 03)	20:07	30 19:02 (WTG 03)	20:34	
11	07:27	08:22 (WTG 06)	07:03	06:21		06:29	18:20 (WTG 03)	05:47	18:34 (WTG 03)	05:27	
	16:51	17 08:39 (WTG 06)	17:29	18:02	37 07:17 (WTG 04)	19:36	74 19:15 (WTG 03)	20:08	26 19:00 (WTG 03)	20:34	
12	07:27	08:23 (WTG 06)	07:01	06:20		06:28	18:19 (WTG 03)	05:46	18:36 (WTG 03)	05:27	
	16:52	15 08:38 (WTG 06)	17:30	18:03	39 07:18 (WTG 04)	19:37	78 19:16 (WTG 03)	20:09	21 18:57 (WTG 03)	20:35	
13	07:26	08:25 (WTG 06)	07:00	06:18		06:26	18:18 (WTG 03)	05:45	18:40 (WTG 03)	05:27	
	16:53	13 08:38 (WTG 06)	17:31	18:04	41 07:18 (WTG 04)	19:38	80 19:17 (WTG 03)	20:10	13 18:53 (WTG 03)	20:35	
14	07:26	08:27 (WTG 06)	06:59	06:16		06:25	18:17 (WTG 03)	05:44	18:42 (WTG 03)	05:27	
	16:54	8 08:35 (WTG 06)	17:32	18:05	43 07:18 (WTG 04)	19:39	82 19:17 (WTG 03)	20:11	20:36		
15	07:26		06:57	06:15		06:23	18:16 (WTG 03)	05:43	20:37		
	16:55		17:34	18:07	44 07:18 (WTG 04)	19:40	84 19:18 (WTG 03)	20:12	20:36		
16	07:25		06:56	06:13		06:21	18:15 (WTG 03)	05:42	20:37		
	16:56		17:35	18:08	45 07:19 (WTG 04)	19:41	84 19:19 (WTG 03)	20:13	20:36		
17	07:25		06:55	06:11		06:20	18:14 (WTG 03)	05:41	20:37		
	16:58		17:36	18:09	44 07:18 (WTG 04)	19:43	86 19:21 (WTG 03)	20:14	20:37		
18	07:24		06:53	06:09		06:18	18:13 (WTG 03)	05:40	20:37		
	16:59		17:37	18:10	45 07:18 (WTG 04)	19:44	86 19:21 (WTG 03)	20:15	20:37		
19	07:24		06:52	06:08		06:17	18:12 (WTG 03)	05:39	20:37		
	17:00		17:39	18:11	45 07:17 (WTG 04)	19:45	84 19:22 (WTG 03)	20:16	20:37		
20	07:23		06:51	06:06		06:15	18:11 (WTG 03)	05:38	20:37		
	17:01		17:40	18:12	44 07:17 (WTG 04)	19:46	83 19:21 (WTG 03)	20:17	20:38		
21	07:22		06:49	06:04		06:14	18:10 (WTG 03)	05:37	20:38		
	17:02		17:41	18:13	44 07:16 (WTG 04)	19:47	80 19:21 (WTG 03)	20:18	20:38		
22	07:22		06:48	06:03		06:12	18:09 (WTG 03)	05:37	20:38		
	17:04		17:42	18:14	43 07:15 (WTG 04)	19:48	76 19:20 (WTG 03)	20:19	20:38		
23	07:21		06:46	06:01		06:11	18:08 (WTG 03)	05:36	20:38		
	17:05		17:43	18:15	42 07:15 (WTG 04)	19:49	69 19:20 (WTG 03)	20:20	20:38		
24	07:20		06:45	05:59		06:09	18:07 (WTG 03)	05:35	20:38		
	17:06		17:45	18:17	41 07:14 (WTG 04)	19:50	62 19:19 (WTG 03)	20:21	20:39		
25	07:20		06:43	05:58		06:08	18:06 (WTG 03)	05:34	20:39		
	17:07		17:46	18:18	40 07:13 (WTG 04)	19:51	61 19:19 (WTG 03)	20:22	20:39		
26	07:19		06:42	05:56		06:06	18:05 (WTG 03)	05:33	20:39		
	17:08		17:47	18:19	38 07:12 (WTG 04)	19:52	60 19:19 (WTG 03)	20:23	20:39		
27	07:18		06:40	05:54		06:05	18:04 (WTG 03)	05:33	20:39		
	17:10		17:48	18:20	35 07:10 (WTG 04)	19:53	58 19:17 (WTG 03)	20:24	20:39		
28	07:17		06:39	05:53		06:04	18:03 (WTG 03)	05:32	20:39		
	17:11		17:49	18:21	45 17:59 (WTG 03)	19:54	58 19:17 (WTG 03)	20:24	20:39		
29	07:16			06:51		06:02	18:02 (WTG 03)	05:32	20:39		
	17:12			19:22	48 19:00 (WTG 03)	19:56	56 19:15 (WTG 03)	20:25	20:39		
30	07:16			06:49		06:01	18:01 (WTG 03)	05:31	20:39		
	17:13			19:23	48 19:02 (WTG 03)	19:57	55 19:15 (WTG 03)	20:26	20:39		
31	07:15			06:48		06:00	18:00 (WTG 03)	05:31	20:39		
	17:15			19:24	48 19:03 (WTG 03)			20:27	20:39		
Ore potenziali eliofanìa	296		297	369		399		449		454	
Totale, caso peggiore	282			1058		1932		489			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 124 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (429)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre									
1	05:31	05:55	18:46 (WTG 03) 06:26	06:50 (WTG 05) 06:57	07:17 (WTG 04) 06:32	07:07	08:05 (WTG 06)								
2	20:39	20:19	19:09 (WTG 03) 19:36	19:13 (WTG 03) 18:45	07:57 (WTG 04) 16:57	16:32	16	08:21 (WTG 06)							
3	05:31	05:56	18:44 (WTG 03) 06:27	06:50 (WTG 05) 06:58	07:18 (WTG 04) 06:33	07:08	08:04 (WTG 06)								
4	20:39	20:18	19:11 (WTG 03) 19:34	19:12 (WTG 03) 18:43	07:56 (WTG 04) 16:56	16:32	19	08:23 (WTG 06)							
5	05:32	05:57	18:42 (WTG 03) 06:28	06:52 (WTG 05) 06:59	07:19 (WTG 04) 06:34	07:09	08:04 (WTG 06)								
6	20:38	20:17	19:13 (WTG 03) 19:32	19:10 (WTG 03) 18:41	07:54 (WTG 04) 16:55	16:32	20	08:24 (WTG 06)							
7	05:32	05:58	18:40 (WTG 03) 06:29	06:54 (WTG 05) 07:00	07:20 (WTG 04) 06:35	07:10	08:03 (WTG 06)								
8	20:38	20:16	19:15 (WTG 03) 19:31	19:08 (WTG 03) 18:39	07:53 (WTG 04) 16:54	16:32	22	08:25 (WTG 06)							
9	05:33	05:59	18:38 (WTG 03) 06:30	18:21 (WTG 03) 07:01	07:21 (WTG 04) 06:36	07:11	08:03 (WTG 06)								
10	20:38	20:15	19:16 (WTG 03) 19:29	19:07 (WTG 03) 18:38	07:51 (WTG 04) 16:52	16:31	22	08:25 (WTG 06)							
11	05:33	06:00	18:37 (WTG 03) 06:31	18:23 (WTG 03) 07:02	07:22 (WTG 04) 06:38	07:12	08:03 (WTG 06)								
12	20:38	20:14	19:18 (WTG 03) 19:27	19:05 (WTG 03) 18:36	07:49 (WTG 04) 16:51	16:31	23	08:26 (WTG 06)							
13	05:34	06:01	18:35 (WTG 03) 06:32	18:22 (WTG 03) 07:03	07:23 (WTG 04) 06:39	07:13	08:03 (WTG 06)								
14	20:37	20:12	19:19 (WTG 03) 19:26	19:03 (WTG 03) 18:34	07:47 (WTG 04) 16:50	16:31	24	08:27 (WTG 06)							
15	05:34	06:02	18:34 (WTG 03) 06:33	18:24 (WTG 03) 07:04	07:24 (WTG 04) 06:40	07:14	08:04 (WTG 06)								
16	20:37	20:11	19:20 (WTG 03) 19:24	19:02 (WTG 03) 18:33	07:44 (WTG 04) 16:49	16:31	24	08:28 (WTG 06)							
17	05:35	06:03	18:33 (WTG 03) 06:34	18:24 (WTG 03) 07:05	07:29 (WTG 04) 06:41	07:15	08:04 (WTG 06)								
18	20:37	20:10	19:21 (WTG 03) 19:22	19:00 (WTG 03) 18:31	07:40 (WTG 04) 16:48	16:31	25	08:29 (WTG 06)							
19	05:36	06:04	18:32 (WTG 03) 06:35	18:25 (WTG 03) 07:06		06:42	07:16	08:03 (WTG 06)							
20	20:36	20:09	19:22 (WTG 03) 19:21	18:58 (WTG 03) 18:30		16:47	16:31	25	08:28 (WTG 06)						
21	05:37	06:05	18:31 (WTG 03) 06:36	18:31 (WTG 03) 07:07		06:44	07:16	08:04 (WTG 06)							
22	20:36	20:07	19:22 (WTG 03) 19:19	18:57 (WTG 03) 18:28		16:46	16:31	25	08:29 (WTG 06)						
23	05:37	06:06	18:30 (WTG 03) 06:37	18:30 (WTG 03) 07:08		06:45	07:17	08:04 (WTG 06)							
24	20:35	20:06	19:23 (WTG 03) 19:17	18:55 (WTG 03) 18:26		16:45	16:31	26	08:30 (WTG 06)						
25	05:38	06:07	18:29 (WTG 03) 06:38	18:30 (WTG 03) 07:10		06:46	07:18	08:05 (WTG 06)							
26	20:35	20:05	19:24 (WTG 03) 19:15	18:53 (WTG 03) 18:25		16:44	16:31	26	08:31 (WTG 06)						
27	05:39	06:08	18:28 (WTG 03) 06:39	18:28 (WTG 03) 07:11		06:47	07:19	08:05 (WTG 06)							
28	20:34	20:03	19:24 (WTG 03) 19:14	18:52 (WTG 03) 18:23		16:43	16:32	27	08:32 (WTG 06)						
29	05:40	06:09	18:27 (WTG 03) 06:40	18:26 (WTG 03) 07:12		06:48	07:20	08:05 (WTG 06)							
30	20:34	20:02	19:25 (WTG 03) 19:12	18:50 (WTG 03) 18:22		16:42	16:32	26	08:31 (WTG 06)						
31	05:40	06:10	18:26 (WTG 03) 06:41	18:24 (WTG 03) 07:13		06:50	07:20	08:05 (WTG 06)							
32	20:33	20:00	19:25 (WTG 03) 19:10	18:51 (WTG 03) 18:20		16:41	16:32	27	08:32 (WTG 06)						
33	05:41	06:11	18:24 (WTG 03) 06:42	18:23 (WTG 03) 07:14		06:51	07:21	08:06 (WTG 06)							
34	20:33	19:59	19:24 (WTG 03) 19:09	18:50 (WTG 03) 18:18		16:40	16:32	27	08:33 (WTG 06)						
35	05:42	06:12	18:24 (WTG 03) 06:43	18:22 (WTG 03) 07:15		06:52	07:22	08:06 (WTG 06)							
36	20:32	19:57	19:25 (WTG 03) 19:07	18:51 (WTG 03) 18:17		16:40	16:33	27	08:33 (WTG 06)						
37	05:43	06:13	18:23 (WTG 03) 06:44	18:20 (WTG 03) 07:16		06:53	07:22	08:07 (WTG 06)							
38	20:31	19:56	19:25 (WTG 03) 19:05	18:50 (WTG 03) 18:15		16:39	16:33	27	08:34 (WTG 06)						
39	05:44	06:14	18:23 (WTG 03) 06:45	18:19 (WTG 03) 07:17		06:54	07:23	08:08 (WTG 06)							
40	20:30	19:54	19:25 (WTG 03) 19:03	18:49 (WTG 03) 18:14		16:38	16:34	27	08:35 (WTG 06)						
41	05:45	06:15	18:22 (WTG 03) 06:46	18:18 (WTG 03) 07:19		06:56	07:23	08:08 (WTG 06)							
42	20:30	19:53	19:25 (WTG 03) 19:02	18:48 (WTG 03) 18:12		16:37	16:34	27	08:35 (WTG 06)						
43	05:45	06:16	18:21 (WTG 03) 06:47	18:17 (WTG 03) 07:20		06:57	07:24	08:08 (WTG 06)							
44	20:29	19:51	19:25 (WTG 03) 19:00	18:47 (WTG 03) 18:11		16:37	16:34	27	08:35 (WTG 06)						
45	05:46	06:17	18:20 (WTG 03) 06:48	18:16 (WTG 03) 07:21		06:58	07:24	08:09 (WTG 06)							
46	20:28	19:50	19:25 (WTG 03) 18:58	18:46 (WTG 03) 18:09		16:36	16:35	27	08:36 (WTG 06)						
47	05:47	06:18	18:19 (WTG 03) 06:49	18:15 (WTG 03) 07:22		06:59	07:25	08:09 (WTG 06)							
48	20:27	19:48	19:25 (WTG 03) 18:56	18:45 (WTG 03) 18:08		16:36	16:36	27	08:36 (WTG 06)						
49	05:48	06:19	18:18 (WTG 03) 06:50	18:14 (WTG 03) 07:23		07:00	07:25	08:10 (WTG 06)							
50	20:26	19:47	19:24 (WTG 03) 18:55	18:44 (WTG 03) 17:07		16:35	16:36	27	08:37 (WTG 06)						
51	05:49	06:20	18:17 (WTG 03) 06:51	18:13 (WTG 03) 07:24		07:01	07:26	08:10 (WTG 06)							
52	20:25	19:45	19:23 (WTG 03) 18:53	18:43 (WTG 03) 17:05		16:34	16:37	27	08:37 (WTG 06)						
53	05:50	06:21	18:16 (WTG 03) 06:53	18:12 (WTG 03) 07:26		07:02	07:26	08:10 (WTG 06)							
54	20:24	19:44	19:21 (WTG 03) 18:51	18:42 (WTG 03) 17:04		16:34	16:37	27	08:37 (WTG 06)						
55	05:51	06:22	18:15 (WTG 03) 06:54	18:11 (WTG 03) 07:27		07:04	07:26	08:11 (WTG 06)							
56	20:23	19:42	19:19 (WTG 03) 18:50	18:41 (WTG 03) 17:02		16:34	8	08:15 (WTG 06)	16:38	26	08:38 (WTG 06)				
57	05:52	06:23	18:14 (WTG 03) 06:55	18:10 (WTG 03) 07:28		07:05	08:05 (WTG 06)	07:27	08:12 (WTG 06)						
58	20:22	19:41	19:18 (WTG 03) 18:48	18:39 (WTG 03) 17:01		16:33	13	08:18 (WTG 06)	16:39	27	08:39 (WTG 06)				
59	05:53	18:54 (WTG 03)	06:24	18:08 (WTG 03) 06:56	18:09 (WTG 03) 07:29		07:06	08:05 (WTG 06)	07:27	08:12 (WTG 06)					
60	20:21	6	19:00 (WTG 03)	19:39	18:40 (WTG 03) 18:46	42	07:58 (WTG 04)	17:00		16:33	15	08:20 (WTG 06)	16:40	27	08:39 (WTG 06)
61	05:54	18:49 (WTG 03)	06:25	18:49 (WTG 03)	18:46			06:30					07:27	08:13 (WTG 06)	
62	20:20	17	19:06 (WTG 03)	19:37	18:46			16:59					16:40	26	08:39 (WTG 06)
63	Ore potenziali eliofania	460	429	375	345	297	36	287							
64	Totale, caso peggiore	23	1874	1373	258	36	780								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm)Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 125 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (430)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:29 20:31
6	07:28 16:46	07:08 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00	06:33 19:34	05:50 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	06:25 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:41	05:42 20:13	05:27 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:28 20:38
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24	05:29 20:39
29	07:16 17:12		06:51 19:22	06:02 19:56	05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 17:15		06:48 19:24		05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore			172	220	73	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 125 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (430)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31	05:55	06:26	06:57	07:47 (WTG 06)	06:32	07:07
	20:39	20:19	19:36	18:45	14 08:01 (WTG 06)	16:57	16:32
2	05:31	05:56	06:27	06:58	07:46 (WTG 06)	06:33	07:08
	20:39	20:18	19:34	18:43	16 08:02 (WTG 06)	16:56	16:32
3	05:32	05:57	06:28	06:59	07:45 (WTG 06)	06:34	07:09
	20:38	20:17	19:32	18:41	17 08:02 (WTG 06)	16:55	16:32
4	05:32	05:58	06:29	07:00	07:44 (WTG 06)	06:35	07:10
	20:38	20:16	19:31	18:39	18 08:02 (WTG 06)	16:54	16:32
5	05:33	05:59	06:30	07:01	07:43 (WTG 06)	06:36	07:11
	20:38	20:15	19:29	18:38	19 08:02 (WTG 06)	16:52	16:32
6	05:33	06:00	06:31	07:02	07:43 (WTG 06)	06:38	07:12
	20:38	20:14	19:27	18:36	18 08:01 (WTG 06)	16:51	16:31
7	05:34	06:01	06:32	07:03	07:43 (WTG 06)	06:39	07:13
	20:37	20:12	19:26	18:35	18 08:01 (WTG 06)	16:50	16:31
8	05:35	06:02	06:33	07:04	07:43 (WTG 06)	06:40	07:14
	20:37	20:11	10 07:06 (WTG 04)	18:33	16 07:59 (WTG 06)	16:49	16:31
9	05:35	06:03	06:34	07:05	07:45 (WTG 06)	06:41	07:15
	20:37	20:10	14 07:08 (WTG 04)	18:31	14 07:59 (WTG 06)	16:48	16:31
10	05:36	06:04	06:35	07:06	07:46 (WTG 06)	06:42	07:16
	20:36	20:09	16 07:09 (WTG 04)	18:30	11 07:57 (WTG 06)	16:47	16:31
11	05:37	06:05	06:36	07:07	07:50 (WTG 06)	06:44	07:16
	20:36	20:07	18 07:10 (WTG 04)	18:28	2 07:52 (WTG 06)	16:46	16:31
12	05:37	06:06	06:37	07:09		06:45	07:17
	20:35	20:06	19 07:10 (WTG 04)	18:26		16:45	16:31
13	05:38	06:07	06:38	07:10		06:46	07:18
	20:35	20:05	21 07:11 (WTG 04)	18:25		16:44	16:32
14	05:39	06:08	06:39	07:11		06:47	07:19
	20:34	20:03	21 07:11 (WTG 04)	18:23		16:43	16:32
15	05:40	06:09	06:40	07:12		06:48	07:20
	20:34	20:02	22 07:11 (WTG 04)	18:22		16:42	16:32
16	05:40	06:10	06:41	07:13		06:50	07:20
	20:33	20:00	22 07:11 (WTG 04)	18:20		16:41	16:32
17	05:41	06:11	06:42	07:14		06:51	07:21
	20:33	19:59	22 07:11 (WTG 04)	18:18		16:40	16:32
18	05:42	06:12	06:43	07:15		06:52	07:22
	20:32	19:57	21 07:10 (WTG 04)	18:17		16:40	16:33
19	05:43	06:13	06:44	07:16		06:53	07:22
	20:31	19:56	21 07:09 (WTG 04)	18:15		16:39	16:33
20	05:44	06:14	06:45	07:17		06:54	07:23
	20:30	19:55	19 07:08 (WTG 04)	18:14		16:38	16:34
21	05:45	06:15	06:46	07:19		06:56	07:23
	20:30	19:53	18 07:07 (WTG 04)	18:12		16:37	16:34
22	05:45	06:16	06:47	07:20		06:57	07:24
	20:29	19:52	15 07:05 (WTG 04)	18:11		16:37	16:34
23	05:46	06:17	06:48	07:21		06:58	07:24
	20:28	19:50	11 07:03 (WTG 04)	18:10		16:36	16:35
24	05:47	06:18	06:49	07:22		06:59	07:25
	20:27	19:48	5 07:00 (WTG 04)	18:08		16:36	16:36
25	05:48	06:19	06:50	06:23		07:00	07:25
	20:26	19:47	18:55	17:07		16:35	16:36
26	05:49	06:20	06:52	06:24		07:01	07:26
	20:25	19:45	18:53	17:05		16:35	16:37
27	05:50	06:21	06:53	06:26		07:03	07:26
	20:24	19:44	18:51	17:04		16:34	16:37
28	05:51	06:22	06:54	06:27		07:04	07:26
	20:24	19:42	18:50	17:03		16:34	16:38
29	05:52	06:23	06:55	06:28		07:05	07:27
	20:23	19:41	18:48	17:01		16:33	16:39
30	05:53	06:24	06:56	06:29	07:49 (WTG 06)	07:06	07:27
	20:21	19:39	18:46	10 07:59 (WTG 06)	17:00	16:33	16:40
31	05:54	06:25		06:30			07:27
	20:20	19:37		16:59			16:40
Ore potenziali eliofania	460	429	375	345	163	297	287
Totale, caso peggiore		295	10				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 126 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (431)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	06:32 (WTG 04) 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	14 06:46 (WTG 04) 16 06:47 (WTG 04)
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	18 06:47 (WTG 04) 18 06:29 (WTG 04)
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	20 06:48 (WTG 04) 20 06:27 (WTG 04)
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	22 06:49 (WTG 04) 22 06:27 (WTG 04)
6	07:28 16:46	07:08 17:22	06:29 17:56	06:38 19:31	05:53 20:03	22 06:49 (WTG 04) 22 06:27 (WTG 04)
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	23 06:50 (WTG 04) 23 06:27 (WTG 04)
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	23 06:50 (WTG 04) 23 06:26 (WTG 04)
9	07:27 16:49	07:05 17:26	06:24 18:00	07:03 (WTG 06) 18:00	06:33 19:34	05:50 20:06
10	07:27 16:50	07:04 17:27	06:23 18:01	07:01 (WTG 06) 07:15 (WTG 06)	06:31 19:35	05:48 20:07
11	07:27 16:51	07:03 17:29	06:21 18:02	06:59 (WTG 06) 07:16 (WTG 06)	06:29 19:36	05:47 20:08
12	07:27 16:52	07:01 17:30	06:20 18:03	06:58 (WTG 06) 07:16 (WTG 06)	06:28 19:37	05:46 20:09
13	07:26 16:53	07:00 17:31	06:18 18:04	06:58 (WTG 06) 07:17 (WTG 06)	06:26 19:38	05:45 20:10
14	07:26 16:54	06:59 17:32	06:16 18:06	06:57 (WTG 06) 07:17 (WTG 06)	06:25 19:39	05:44 20:11
15	07:26 16:55	06:57 17:34	06:15 18:07	06:56 (WTG 06) 07:16 (WTG 06)	06:23 19:40	05:43 20:12
16	07:25 16:56	06:56 17:35	06:13 18:08	06:57 (WTG 06) 07:16 (WTG 06)	06:21 19:41	05:42 20:13
17	07:25 16:58	06:55 17:36	06:11 18:09	06:57 (WTG 06) 07:15 (WTG 06)	06:20 19:43	05:41 20:14
18	07:24 16:59	06:53 17:37	06:10 18:10	06:57 (WTG 06) 07:13 (WTG 06)	06:18 19:44	05:40 20:15
19	07:24 17:00	06:52 17:39	06:08 18:11	06:59 (WTG 06) 07:12 (WTG 06)	06:17 19:45	05:39 20:16
20	07:23 17:01	06:51 17:40	06:06 18:12	07:01 (WTG 06) 07:09 (WTG 06)	06:15 19:46	05:38 20:17
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:38 20:18	06:41 (WTG 04) 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	20:38
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24	20:39
29	07:16 17:12		06:51 19:22	06:02 19:56	05:32 20:25	20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	20:39
31	07:15 17:15		06:48 19:24		05:31 20:27	20:39
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore			192	9	375	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 126 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (431)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:37 (WTG 04) 19:36	06:57 18:45	07:37 (WTG 06) 16:57	06:32 16:32
2	05:31 20:39	05:56 20:18	06:37 (WTG 04) 19:34	06:58 18:43	07:38 (WTG 06) 16:56	06:33 16:32
3	05:32 20:38	05:57 20:17	06:36 (WTG 04) 19:32	06:59 18:41	07:38 (WTG 06) 16:55	06:34 16:32
4	05:32 20:38	05:58 20:16	06:36 (WTG 04) 19:31	07:00 18:39	07:39 (WTG 06) 16:54	06:35 16:32
5	05:33 20:38	05:59 20:15	06:36 (WTG 04) 19:29	07:01 18:38	07:42 (WTG 06) 16:52	06:36 16:32
6	05:33 20:38	06:00 20:14	06:37 (WTG 04) 19:27	07:02 18:36	07:48 (WTG 06) 16:51	06:38 16:31
7	05:34 20:37	06:01 20:12	06:37 (WTG 04) 19:26	07:03 18:34	07:48 (WTG 06) 16:50	06:39 16:31
8	05:35 20:37	06:02 20:11	06:37 (WTG 04) 19:24	07:04 18:33	07:48 (WTG 06) 16:49	06:40 16:31
9	05:35 20:37	06:03 20:10	06:38 (WTG 04) 19:22	07:05 18:31	07:48 (WTG 06) 16:48	06:41 16:31
10	05:36 20:36	06:04 20:09	06:39 (WTG 04) 19:21	07:06 18:30	07:48 (WTG 06) 16:47	06:42 16:31
11	05:37 20:36	06:05 20:07	06:40 (WTG 04) 19:19	07:07 18:28	07:48 (WTG 06) 16:46	06:44 16:31
12	05:37 20:35	06:06 20:06	06:41 (WTG 04) 19:17	07:09 18:26	07:48 (WTG 06) 16:45	06:45 16:31
13	05:38 20:35	06:07 20:05	06:44 (WTG 04) 19:15	07:10 18:25	07:48 (WTG 06) 16:44	06:46 16:32
14	05:39 20:34	06:08 20:03	06:44 (WTG 04) 19:14	07:11 18:23	07:48 (WTG 06) 16:43	06:47 16:32
15	05:40 20:34	06:09 20:02	06:44 (WTG 04) 19:12	07:12 18:22	07:48 (WTG 06) 16:42	06:48 16:32
16	05:40 20:33	06:10 20:00	06:44 (WTG 04) 19:10	07:13 18:20	07:48 (WTG 06) 16:41	06:50 16:32
17	05:41 20:33	06:11 19:59	06:44 (WTG 04) 19:09	07:14 18:18	07:48 (WTG 06) 16:40	06:51 16:32
18	05:42 20:32	06:12 19:57	06:43 (WTG 04) 19:07	07:15 18:17	07:48 (WTG 06) 16:39	06:52 16:33
19	05:43 20:31	06:13 19:56	06:44 (WTG 04) 19:05	07:16 18:15	07:48 (WTG 06) 16:38	06:53 16:33
20	05:44 20:30	06:14 19:55	06:44 (WTG 04) 19:03	07:17 18:14	07:48 (WTG 06) 16:37	06:54 16:34
21	05:45 20:30	06:15 19:53	06:46 (WTG 04) 19:02	07:19 18:12	07:48 (WTG 06) 16:36	06:56 16:34
22	05:45 20:29	06:16 19:52	06:47 (WTG 04) 19:00	07:20 18:11	07:48 (WTG 06) 16:35	06:57 16:34
23	05:46 20:28	06:17 19:50	06:48 (WTG 04) 18:58	07:21 18:10	07:48 (WTG 06) 16:34	06:58 16:35
24	05:47 20:27	06:18 19:48	06:49 (WTG 04) 18:57	07:22 18:08	07:48 (WTG 06) 16:33	06:59 16:36
25	05:48 20:26	06:19 19:47	06:50 (WTG 04) 18:55	07:23 18:07	07:48 (WTG 06) 16:32	07:00 16:36
26	05:49 20:25	06:20 19:45	06:52 (WTG 04) 18:53	07:24 18:05	07:48 (WTG 06) 16:31	07:01 16:37
27	05:50 20:24	06:21 19:44	06:53 (WTG 04) 18:51	07:25 18:04	07:48 (WTG 06) 16:30	07:02 16:37
28	05:51 20:23	06:22 19:42	06:54 (WTG 04) 18:50	07:26 18:03	07:48 (WTG 06) 16:29	07:04 16:38
29	05:52 20:22	06:23 19:41	06:55 (WTG 04) 18:48	07:27 18:02	07:48 (WTG 06) 16:28	07:05 16:39
30	05:53 20:21	06:24 19:39	06:56 (WTG 04) 18:46	07:28 18:01	07:48 (WTG 06) 16:27	07:06 16:40
31	05:54 20:20	06:25 19:37	06:57 (WTG 04) 18:45	07:29 18:00	07:48 (WTG 06) 16:26	07:07 16:40
Ore potenziali eliofanía	460	429	375	345	297	287
Totale, caso peggiore	134	253	125	69		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 127 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (432)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo		Aprile	Maggio		Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51		06:46 19:25	06:00 19:58		05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52		06:44 19:26	05:58 19:59	10	06:32 (WTG 04) 06:42 (WTG 04) 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53		06:43 19:27	05:57 20:00	14	06:29 (WTG 04) 06:43 (WTG 04) 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54		06:41 19:29	05:56 20:01	17	06:28 (WTG 04) 06:45 (WTG 04) 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	05:54 20:02	19	06:27 (WTG 04) 06:46 (WTG 04) 20:31
6	07:28 16:46	07:08 17:22	06:29 17:56		06:38 19:31	05:53 20:03	20	06:26 (WTG 04) 06:46 (WTG 04) 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	05:52 20:04	21	06:26 (WTG 04) 06:47 (WTG 04) 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59		06:34 19:33	05:51 20:05	23	06:25 (WTG 04) 06:48 (WTG 04) 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00		06:33 19:34	05:50 20:06	23	06:24 (WTG 04) 06:47 (WTG 04) 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	8	07:03 (WTG 06) 07:11 (WTG 06)	06:31 19:35	23	06:24 (WTG 04) 06:47 (WTG 04) 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	13	07:00 (WTG 06) 07:13 (WTG 06)	06:29 19:36	23	06:24 (WTG 04) 06:47 (WTG 04) 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	16	06:58 (WTG 06) 07:14 (WTG 06)	06:28 19:37	23	06:24 (WTG 04) 06:47 (WTG 04) 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	18	06:57 (WTG 06) 07:15 (WTG 06)	06:26 19:38	23	06:24 (WTG 04) 06:47 (WTG 04) 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	19	06:56 (WTG 06) 07:15 (WTG 06)	06:25 19:39	23	06:24 (WTG 04) 06:47 (WTG 04) 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	20	06:55 (WTG 06) 07:15 (WTG 06)	06:23 19:40	22	06:24 (WTG 04) 06:46 (WTG 04) 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	19	06:56 (WTG 06) 07:15 (WTG 06)	06:21 19:41	21	06:25 (WTG 04) 06:46 (WTG 04) 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	19	06:55 (WTG 06) 07:14 (WTG 06)	06:20 19:43	20	06:26 (WTG 04) 06:46 (WTG 04) 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	18	06:55 (WTG 06) 07:13 (WTG 06)	06:18 19:44	18	06:27 (WTG 04) 06:45 (WTG 04) 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	17	06:56 (WTG 06) 07:13 (WTG 06)	06:17 19:45	18	06:27 (WTG 04) 06:45 (WTG 04) 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	14	06:57 (WTG 06) 07:11 (WTG 06)	06:15 19:46	15	06:28 (WTG 04) 06:43 (WTG 04) 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	10	06:58 (WTG 06) 07:08 (WTG 06)	06:14 19:47	13	06:29 (WTG 04) 06:42 (WTG 04) 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14		06:12 19:48	05:37 20:19	11	06:31 (WTG 04) 06:42 (WTG 04) 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15		06:11 19:49	05:36 20:20	6	06:33 (WTG 04) 06:39 (WTG 04) 20:38
24	07:20 17:06	06:45 17:45	05:59 18:17		06:09 19:50	05:35 20:21		05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18		06:08 19:51	05:34 20:22		05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19		06:06 19:52	05:34 20:23		05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20		06:05 19:53	05:33 20:24		05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21		06:04 19:54	05:32 20:24		05:29 20:39
29	07:16 17:12		06:51 19:22		06:02 19:56	05:32 20:25		05:30 20:39
30	07:16 17:13		06:49 19:23		06:01 19:57	05:31 20:26		05:30 20:39
31	07:15 17:15		06:48 19:24			05:31 20:27		
Ore potenziali eliofania	296	297	369	191	399	449	406	454
Totale, caso peggiore								

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 127 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (432)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:34 (WTG 04) 19:36	06:57 18:45	07:37 (WTG 06) 16:57	06:32 16:32
2	05:31 20:39	05:56 20:18	06:35 (WTG 04) 19:34	06:58 18:43	07:38 (WTG 06) 16:56	06:33 16:32
3	05:32 20:38	05:57 20:17	06:35 (WTG 04) 19:32	06:59 18:41	07:39 (WTG 06) 16:55	06:34 16:32
4	05:32 20:38	05:58 20:16	06:35 (WTG 04) 19:31	07:00 18:39	07:42 (WTG 06) 16:54	06:35 16:32
5	05:33 20:38	05:59 20:15	06:35 (WTG 04) 19:29	07:01 18:38	07:42 (WTG 06) 16:52	06:36 16:32
6	05:33 20:38	06:00 20:14	06:36 (WTG 04) 19:27	07:02 18:36	07:42 (WTG 06) 16:51	06:38 16:31
7	05:34 20:37	06:01 20:12	06:36 (WTG 04) 19:26	07:03 18:34	07:42 (WTG 06) 16:50	06:39 16:31
8	05:35 20:37	06:02 20:11	06:37 (WTG 04) 19:24	07:04 18:33	07:42 (WTG 06) 16:49	06:40 16:31
9	05:35 20:37	06:03 20:10	06:38 (WTG 04) 19:22	07:05 18:31	07:42 (WTG 06) 16:48	06:41 16:31
10	05:36 20:36	06:04 20:09	06:39 (WTG 04) 19:21	07:06 18:30	07:42 (WTG 06) 16:47	06:42 16:31
11	05:37 20:36	06:05 20:07	06:42 (WTG 04) 19:19	07:07 18:28	07:42 (WTG 06) 16:46	06:44 16:31
12	05:37 20:35	06:06 20:06	06:42 (WTG 04) 19:17	07:09 18:26	07:42 (WTG 06) 16:45	06:45 16:31
13	05:38 20:35	06:07 20:05	06:43 (WTG 04) 19:15	07:10 18:25	07:42 (WTG 06) 16:44	06:46 16:32
14	05:39 20:34	06:08 20:03	06:43 (WTG 04) 19:14	07:11 18:23	07:42 (WTG 06) 16:43	06:47 16:32
15	05:40 20:34	06:09 20:02	06:44 (WTG 04) 19:12	07:12 18:22	07:42 (WTG 06) 16:42	06:48 16:32
16	05:40 20:33	06:10 20:00	06:44 (WTG 04) 19:10	07:13 18:20	07:42 (WTG 06) 16:41	06:50 16:32
17	05:41 20:33	06:11 19:59	06:44 (WTG 04) 19:09	07:14 18:18	07:42 (WTG 06) 16:40	06:51 16:32
18	05:42 20:32	06:12 19:57	06:43 (WTG 04) 19:07	07:15 18:17	07:42 (WTG 06) 16:40	06:52 16:33
19	05:43 20:31	06:13 19:56	06:44 (WTG 04) 19:05	07:16 18:15	07:42 (WTG 06) 16:39	06:53 16:33
20	05:44 20:30	06:14 19:55	06:45 (WTG 04) 19:03	07:17 18:14	07:42 (WTG 06) 16:38	06:54 16:34
21	05:45 20:30	06:15 19:53	06:46 (WTG 04) 19:02	07:19 18:12	07:42 (WTG 06) 16:37	06:56 16:34
22	05:45 20:29	06:16 19:52	06:47 (WTG 04) 19:00	07:20 18:11	07:42 (WTG 06) 16:37	06:57 16:34
23	05:46 20:28	06:17 19:50	06:48 (WTG 04) 18:58	07:21 18:10	07:42 (WTG 06) 16:36	06:58 16:35
24	05:47 20:27	06:18 19:48	06:49 (WTG 04) 18:57	07:22 18:08	07:42 (WTG 06) 16:36	06:59 16:36
25	05:48 20:26	06:19 19:47	06:50 (WTG 04) 18:55	07:23 18:07	07:42 (WTG 06) 16:36	07:00 16:36
26	05:49 20:25	06:20 19:45	06:52 (WTG 04) 18:53	07:24 18:05	07:42 (WTG 06) 16:35	07:01 16:37
27	05:50 20:24	06:21 19:44	06:53 (WTG 04) 18:51	07:25 18:04	07:42 (WTG 06) 16:35	07:02 16:37
28	05:51 20:23	06:22 19:42	06:54 (WTG 04) 18:50	07:26 18:03	07:42 (WTG 06) 16:34	07:04 16:38
29	05:52 20:22	06:23 19:41	06:55 (WTG 04) 18:48	07:27 18:02	07:42 (WTG 06) 16:33	07:05 16:39
30	05:53 20:21	06:24 19:39	06:56 (WTG 04) 18:46	07:28 18:01	07:42 (WTG 06) 16:33	07:06 16:40
31	05:54 20:20	06:25 19:37	06:57 (WTG 04) 18:45	07:29 17:59	07:42 (WTG 06) 16:33	07:07 16:40
Ore potenziali eliofanía	460	429	375	345	297	287
Totale, caso peggiore	202	210	150	46		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 128 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (433)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo		Aprile	Maggio		Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51		06:46 19:25	06:00 19:58		05:30 20:28
2	07:28 16:42	07:13 17:17	06:36 17:52		06:44 19:26	05:58 19:59	8	06:33 (WTG 04) 06:41 (WTG 04) 20:28
3	07:28 16:43	07:12 17:19	06:34 17:53		06:43 19:27	05:57 20:00	14	06:29 (WTG 04) 06:43 (WTG 04) 20:29
4	07:28 16:44	07:11 17:20	06:33 17:54		06:41 19:29	05:56 20:01	16	06:28 (WTG 04) 06:44 (WTG 04) 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55		06:39 19:30	05:54 20:02	19	06:27 (WTG 04) 06:46 (WTG 04) 20:31
6	07:28 16:46	07:08 17:22	06:29 17:56		06:38 19:31	05:53 20:03	20	06:26 (WTG 04) 06:46 (WTG 04) 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58		06:36 19:32	05:52 20:04	21	06:26 (WTG 04) 06:47 (WTG 04) 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59		06:34 19:33	05:51 20:05	23	06:25 (WTG 04) 06:48 (WTG 04) 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00		06:33 19:34	05:50 20:06	23	06:24 (WTG 04) 06:47 (WTG 04) 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	8	07:03 (WTG 06) 07:11 (WTG 06)	06:31 19:35	23	06:24 (WTG 04) 06:47 (WTG 04) 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	13	07:00 (WTG 06) 07:13 (WTG 06)	06:29 19:36	23	06:24 (WTG 04) 06:47 (WTG 04) 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	16	06:58 (WTG 06) 07:14 (WTG 06)	06:28 19:37	23	06:24 (WTG 04) 06:47 (WTG 04) 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	18	06:57 (WTG 06) 07:15 (WTG 06)	06:26 19:38	23	06:24 (WTG 04) 06:47 (WTG 04) 20:35
14	07:26 16:54	06:59 17:32	06:16 18:06	19	06:56 (WTG 06) 07:15 (WTG 06)	06:25 19:39	23	06:24 (WTG 04) 06:47 (WTG 04) 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	20	06:55 (WTG 06) 07:15 (WTG 06)	06:23 19:40	22	06:24 (WTG 04) 06:46 (WTG 04) 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	20	06:55 (WTG 06) 07:15 (WTG 06)	06:21 19:41	21	06:25 (WTG 04) 06:46 (WTG 04) 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	19	06:55 (WTG 06) 07:14 (WTG 06)	06:20 19:43	20	06:26 (WTG 04) 06:46 (WTG 04) 20:37
18	07:24 16:59	06:53 17:37	06:10 18:10	18	06:55 (WTG 06) 07:13 (WTG 06)	06:18 19:44	18	06:27 (WTG 04) 06:45 (WTG 04) 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	17	06:56 (WTG 06) 07:13 (WTG 06)	06:17 19:45	18	06:27 (WTG 04) 06:45 (WTG 04) 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	14	06:57 (WTG 06) 07:11 (WTG 06)	06:15 19:46	16	06:28 (WTG 04) 06:44 (WTG 04) 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	10	06:58 (WTG 06) 07:08 (WTG 06)	06:14 19:47	13	06:29 (WTG 04) 06:42 (WTG 04) 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14		06:12 19:48	05:37 20:19	11	06:31 (WTG 04) 06:42 (WTG 04) 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15		06:11 19:49	05:36 20:20	6	06:33 (WTG 04) 06:39 (WTG 04) 20:38
24	07:20 17:06	06:45 17:45	05:59 18:17		06:09 19:50	05:35 20:21		05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18		06:08 19:51	05:34 20:22		05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19		06:06 19:52	05:34 20:23		05:29 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20		06:05 19:53	05:33 20:24		05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21		06:04 19:54	05:32 20:24		05:29 20:39
29	07:16 17:12		06:51 19:22		06:02 19:56	05:32 20:25		05:30 20:39
30	07:16 17:13		06:49 19:23		06:01 19:57	05:31 20:26		05:30 20:39
31	07:15 17:15		06:48 19:24			05:31 20:27		
Ore potenziali eliofania	296	297	369		399	449		454
Totale, caso peggiore			192			404		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 128 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (433)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:55 20:19	06:34 (WTG 04) 19:36	06:57 18:45	07:37 (WTG 06) 16:57	06:32 16:32
2	05:31 20:39	05:56 20:18	06:35 (WTG 04) 19:34	06:58 18:43	07:38 (WTG 06) 16:56	06:33 16:32
3	05:32 20:38	05:57 20:17	06:35 (WTG 04) 19:32	06:59 18:41	07:39 (WTG 06) 16:55	06:34 16:32
4	05:32 20:38	05:58 20:16	06:35 (WTG 04) 19:31	07:00 18:39	07:50 (WTG 06) 16:55	06:35 16:32
5	05:33 20:38	05:59 20:15	06:35 (WTG 04) 19:29	07:01 18:38	16:52 16:32	06:36 07:11
6	05:33 20:38	06:00 20:14	06:36 (WTG 04) 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:36 (WTG 04) 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	05:35 20:37	06:02 20:11	06:37 (WTG 04) 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:38 (WTG 04) 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:09	06:40 (WTG 04) 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:42 (WTG 04) 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:43 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:32
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	05:44 20:30	06:14 19:55	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34
22	05:45 20:29	06:16 19:52	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	9 07:53 (WTG 06) 18:11	06:58 16:36	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:57	14 07:55 (WTG 06) 18:10	06:59 16:36	07:25 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	16 07:56 (WTG 06) 18:08	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:52 18:53	17 07:57 (WTG 06) 18:07	07:01 16:35	07:26 16:37
27	05:50 20:24	06:21 19:44	06:53 18:51	19 07:58 (WTG 06) 18:06	07:02 16:34	07:26 16:37
28	05:51 20:23	06:22 19:42	06:54 18:50	20 07:59 (WTG 06) 18:05	07:04 16:34	07:27 16:38
29	05:52 20:22	06:23 19:41	06:55 18:48	19 07:56 (WTG 06) 18:04	07:05 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	20 07:57 (WTG 06) 18:03	07:06 16:33	07:27 16:40
31	05:54 20:20	06:25 19:37		19 07:55 (WTG 06) 18:02	07:07 16:33	07:27 16:40
Ore potenziali eliofanía	460	429	375	345	297	287
Totale, caso peggiore	203	208	153	42		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

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Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 129 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (434)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36		06:57 18:45	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	05:29 20:29	05:32 20:38	05:57 20:17	06:28 19:32		06:59 18:41	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	8	07:48 (WTG 06) 18:39	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:29 20:31	05:33 20:38	05:59 20:15	06:30 19:29		07:01 18:38	07:11 16:32
6	07:28 16:46	07:08 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27		07:02 18:36	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26		07:03 18:34	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:32	05:35 20:37	06:02 20:11	06:33 19:24		07:04 18:33	07:14 16:31
9	07:27 16:49	07:05 17:26	06:24 18:00	06:33 19:34	05:50 20:06	05:27 20:34	05:35 20:37	06:03 20:10	06:34 19:22		07:05 18:31	07:15 16:31
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Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	160	345	297
Totale, caso peggiore			196							37		287

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH
 Schweizer Straße 3a
 DE-01069 Dresden
 +49 (0) 351 / 211 83 - 46
 Luca Di Grigoli / luca.digrigoli@vsb.energy
 Redatto il:
 26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 130 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (435)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36			
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31	07:15 17:15		06:48 19:24		05:31 20:27		05:54 20:20	06:25 19:37	06:57 16:59			
Ore potenziali eliofanía	296	297	369			454	460	429	375	345	297	287
Totale, caso peggiore			192	399	449				168	33		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 131 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (436)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	07:39 (WTG 06) 07:45 (WTG 06)	06:32 16:57	07:07 16:32
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Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	345		297	287
Totale, caso peggiore			194						195		6		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 132 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (437)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:51	06:46 19:25	06:00 19:58	05:30 20:28	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:45	06:32 16:57	07:07 16:32
2	07:28 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	07:28 16:43	07:12 17:19	06:34 17:53	06:43 19:27	05:57 20:00	05:29 20:29	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	07:28 16:44	07:11 17:20	06:33 17:54	06:41 19:29	05:56 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32
5	07:28 16:45	07:10 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:29 20:31	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:32
6	07:28 16:46	07:08 17:22	06:29 17:56	06:38 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31
7	07:28 16:47	07:07 17:24	06:28 17:58	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:28 20:32	05:35 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:24 18:00	06:33 19:34	05:50 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:09	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	07:27 16:52	07:01 17:30	06:20 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:35	06:06 20:06	06:37 19:17	07:09 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:05	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:32
14	07:26 16:54	06:59 17:32	06:16 18:06	06:56 (WTG 06) 07:04 (WTG 06)	06:25 19:38	05:44 20:10	05:39 20:35	06:08 20:05	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:26 16:55	06:57 17:34	06:15 18:07	06:53 (WTG 06) 07:08 (WTG 06)	06:23 19:40	05:43 20:12	05:40 20:36	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:52 (WTG 06) 07:10 (WTG 06)	06:21 19:41	05:42 20:13	05:40 20:36	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:58	06:55 17:36	06:11 18:09	06:51 (WTG 06) 07:10 (WTG 06)	06:20 19:43	05:41 20:14	05:41 20:37	06:11 20:33	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:53 17:37	06:10 18:10	06:50 (WTG 06) 07:10 (WTG 06)	06:18 19:44	05:40 20:15	05:42 20:37	06:12 20:32	06:43 19:07	7 07:42 (WTG 06)	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:39	06:08 18:11	06:50 (WTG 06) 07:10 (WTG 06)	06:17 19:45	05:39 20:16	05:43 20:37	06:13 20:31	06:44 19:05	7 07:39 (WTG 06)	06:53 16:39	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:50 (WTG 06) 07:10 (WTG 06)	06:15 19:46	05:38 20:17	05:44 20:38	06:14 20:30	06:45 19:03	13 07:52 (WTG 06)	06:54 16:38	07:23 16:34
21	07:22 17:02	06:49 17:41	06:04 18:13	06:49 (WTG 06) 07:09 (WTG 06)	06:14 19:47	05:38 20:18	05:45 20:38	06:15 20:30	06:46 19:02	16 07:53 (WTG 06)	06:56 16:37	07:23 16:34
22	07:22 17:04	06:48 17:42	06:03 18:14	06:49 (WTG 06) 07:07 (WTG 06)	06:12 19:48	05:37 20:19	05:45 20:38	06:16 19:52	06:47 19:00	18 07:35 (WTG 06)	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:15	06:51 (WTG 06) 07:07 (WTG 06)	06:11 19:49	05:36 20:20	05:46 20:38	06:17 20:28	06:48 19:50	19 07:54 (WTG 06)	06:58 16:36	07:24 16:35
24	07:20 17:06	06:45 17:45	05:59 18:17	06:52 (WTG 06) 07:05 (WTG 06)	06:09 19:50	05:35 20:21	05:48 20:39	06:18 20:27	06:49 19:48	20 07:34 (WTG 06)	06:59 16:36	07:25 16:36
25	07:20 17:07	06:43 17:46	05:58 18:18	06:53 (WTG 06) 07:02 (WTG 06)	06:08 19:51	05:34 20:22	05:48 20:39	06:19 20:26	06:50 19:47	20 07:33 (WTG 06)	07:00 16:35	07:25 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:52 (WTG 06) 07:02 (WTG 06)	06:06 19:52	05:34 20:23	05:49 20:39	06:20 20:25	06:52 19:45	20 07:53 (WTG 06)	07:01 16:35	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:51 (WTG 06) 07:04 (WTG 06)	06:05 19:53	05:33 20:24	05:50 20:39	06:21 20:24	06:53 19:44	20 07:54 (WTG 06)	07:02 16:34	07:26 16:37
28	07:17 17:11	06:39 17:49	05:53 18:21	06:50 (WTG 06) 06:51 (WTG 06)	06:04 19:54	05:32 20:24	05:51 20:39	06:22 20:23	06:54 19:42	18 07:52 (WTG 06)	07:04 16:34	07:26 16:38
29	07:16 17:12	06:38 17:50	05:52 18:22	06:50 (WTG 06) 06:52 (WTG 06)	06:02 19:56	05:32 20:25	05:52 20:39	06:23 20:22	06:55 19:41	16 07:50 (WTG 06)	07:05 16:33	07:27 16:39
30	07:16 17:13	06:37 17:51	05:51 18:23	06:49 (WTG 06) 06:53 (WTG 06)	06:01 19:57	05:31 20:26	05:53 20:39	06:24 20:21	06:56 19:39	13 07:48 (WTG 06)	07:06 16:33	07:27 16:40
31	07:15 17:15	06:36 17:52	05:50 18:24	06:48 (WTG 06) 06:53 (WTG 06)	06:00 19:58	05:30 20:27	05:54 20:39	06:25 20:20	06:57 19:37	9 07:46 (WTG 06)	07:07 16:30	07:27 16:40
Ore potenziali eliofania	296	297	369	399	449	454	460	429	375	209	345	297
Totale, caso peggiore			203									287

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)





SHADOW - Calendario

Recettore d'ombra: 133 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (438)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno					
1	07:27	08:09 (WTG 06)	07:14	08:14 (WTG 06)	06:37	06:46		05:59	06:19 (7)	05:30	06:00 (WTG 04)				
	16:41	24	08:33 (WTG 06)	17:16	34	08:48 (WTG 06)	17:51	19:25	19:58	20:28	98	20:03 (WTG 03)			
2	07:27	08:08 (WTG 06)	07:13	08:15 (WTG 06)	06:36	06:44		05:58		05:30		06:00 (WTG 04)			
	16:42	26	08:34 (WTG 06)	17:17	32	08:47 (WTG 06)	17:52	19:26	19:59	20:28	99	20:03 (WTG 03)			
3	07:28	08:08 (WTG 06)	07:12	08:16 (WTG 06)	06:34	06:42		05:57		05:29		06:00 (WTG 04)			
	16:43	26	08:34 (WTG 06)	17:18	30	08:46 (WTG 06)	17:53	19:27	20:00	20:29	100	20:04 (WTG 03)			
4	07:28	08:08 (WTG 06)	07:11	08:17 (WTG 06)	06:32	06:41		05:56		05:29		06:01 (WTG 04)			
	16:44	27	08:35 (WTG 06)	17:20	28	08:45 (WTG 06)	17:54	19:28	20:01	20:30	100	20:05 (WTG 03)			
5	07:28	08:08 (WTG 06)	07:10	08:18 (WTG 06)	06:31	06:39		05:54		05:28		06:00 (WTG 04)			
	16:45	28	08:36 (WTG 06)	17:21	26	08:44 (WTG 06)	17:55	19:30	20:02	20:30	101	20:05 (WTG 03)			
6	07:28	08:09 (WTG 06)	07:08	08:19 (WTG 06)	06:29	06:37		05:53	06:29 (WTG 04)	05:28		06:00 (WTG 04)			
	16:46	28	08:37 (WTG 06)	17:22	23	08:42 (WTG 06)	17:56	19:31	20:03	6	06:35 (WTG 04)	20:31	102	20:06 (WTG 03)	
7	07:28	08:09 (WTG 06)	07:07	08:22 (WTG 06)	06:28	06:36		05:52		05:28		06:01 (WTG 04)			
	16:47	30	08:39 (WTG 06)	17:24	18	08:40 (WTG 06)	17:58	19:32	20:04	19	06:42 (WTG 04)	20:32	102	20:07 (WTG 03)	
8	07:27	08:08 (WTG 06)	07:06	08:25 (WTG 06)	06:26	06:34		05:51		05:28		06:01 (WTG 04)			
	16:48	31	08:39 (WTG 06)	17:25	12	08:37 (WTG 06)	17:59	19:33	20:05	26	06:45 (WTG 04)	20:32	102	20:07 (WTG 03)	
9	07:27	08:08 (WTG 06)	07:05		06:24	06:33		05:49	06:16 (WTG 04)	05:27		06:00 (WTG 04)			
	16:49	32	08:40 (WTG 06)	17:26		18:00	19:34	20:06	31	06:47 (WTG 04)	20:33	104	20:07 (WTG 03)		
10	07:27	08:08 (WTG 06)	07:04		06:23	06:31		05:48	06:14 (WTG 04)	05:27		06:00 (WTG 04)			
	16:50	33	08:41 (WTG 06)	17:27		18:01	19:35	20:07	35	06:49 (WTG 04)	20:34	104	20:08 (WTG 03)		
11	07:27	08:09 (WTG 06)	07:03		06:21	06:29		05:47	06:12 (WTG 04)	05:27		06:01 (WTG 04)			
	16:51	33	08:42 (WTG 06)	17:29		18:02	19:36	20:08	38	06:50 (WTG 04)	20:34	104	20:08 (WTG 03)		
12	07:27	08:08 (WTG 06)	07:01		06:20	06:28		05:46	06:11 (WTG 04)	05:27		06:01 (WTG 04)			
	16:52	34	08:42 (WTG 06)	17:30		18:03	19:37	20:09	44	19:45 (WTG 03)	20:35	105	20:09 (WTG 03)		
13	07:26	08:08 (WTG 06)	07:00		06:18	06:26		05:45	06:09 (WTG 04)	05:27		06:01 (WTG 04)			
	16:53	35	08:43 (WTG 06)	17:31		18:04	19:38	20:10	50	19:46 (WTG 03)	20:35	104	20:09 (WTG 03)		
14	07:26	08:08 (WTG 06)	06:59		06:16	06:24		05:44	06:08 (WTG 04)	05:27		06:01 (WTG 04)			
	16:54	35	08:43 (WTG 06)	17:32		18:05	19:39	20:11	55	19:47 (WTG 03)	20:36	105	20:10 (WTG 03)		
15	07:26	08:08 (WTG 06)	06:57		06:15	06:23		05:43	06:07 (WTG 04)	05:27		06:01 (WTG 04)			
	16:55	37	08:45 (WTG 06)	17:34		18:07	19:40	20:12	60	19:48 (WTG 03)	20:36	106	20:10 (WTG 03)		
16	07:25	08:08 (WTG 06)	06:56		06:13	06:21		05:42	06:06 (WTG 04)	05:27		06:02 (WTG 04)			
	16:56	37	08:45 (WTG 06)	17:35		18:08	19:41	20:13	64	19:49 (WTG 03)	20:36	106	20:11 (WTG 03)		
17	07:25	08:08 (WTG 06)	06:55		06:11	06:20		05:41	06:06 (WTG 04)	05:27		06:02 (WTG 04)			
	16:58	38	08:46 (WTG 06)	17:36		18:09	19:43	20:14	68	19:51 (WTG 03)	20:37	106	20:11 (WTG 03)		
18	07:24	08:08 (WTG 06)	06:53		06:09	06:18		05:40	06:05 (WTG 04)	05:27		06:02 (WTG 04)			
	16:59	38	08:46 (WTG 06)	17:37		18:10	19:44	20:15	71	19:51 (WTG 03)	20:37	106	20:11 (WTG 03)		
19	07:24	08:09 (WTG 06)	06:52		06:08	06:17		05:39	06:04 (WTG 04)	05:27		06:02 (WTG 04)			
	17:00	38	08:47 (WTG 06)	17:39		18:11	19:45	20:16	74	19:52 (WTG 03)	20:37	105	20:11 (WTG 03)		
20	07:23	08:08 (WTG 06)	06:51		06:06	06:15		05:38	06:03 (WTG 04)	05:27		06:03 (WTG 04)			
	17:01	39	08:47 (WTG 06)	17:40		18:12	19:46	20:17	78	19:53 (WTG 03)	20:38	105	20:12 (WTG 03)		
21	07:22	08:08 (WTG 06)	06:49		06:04	06:14		05:37	06:03 (WTG 04)	05:27		06:03 (WTG 04)			
	17:02	39	08:47 (WTG 06)	17:41		18:13	19:47	20:18	79	19:53 (WTG 03)	20:38	105	20:12 (WTG 03)		
22	07:22	08:09 (WTG 06)	06:48		06:03	06:12		05:37	06:03 (WTG 04)	05:27		06:03 (WTG 04)			
	17:03	39	08:48 (WTG 06)	17:42		18:14	19:48	20:19	81	19:55 (WTG 03)	20:38	105	20:12 (WTG 03)		
23	07:21	08:09 (WTG 06)	06:46		06:01	06:11		05:36	06:02 (WTG 04)	05:28		06:03 (WTG 04)			
	17:05	39	08:48 (WTG 06)	17:43		18:15	19:49	20:20	85	19:56 (WTG 03)	20:38	105	20:12 (WTG 03)		
24	07:20	08:09 (WTG 06)	06:45		05:59	06:09		05:35	06:02 (WTG 04)	05:28		06:04 (WTG 04)			
	17:06	39	08:48 (WTG 06)	17:45		18:17	19:50	20:21	86	19:56 (WTG 03)	20:39	105	20:13 (WTG 03)		
25	07:20	08:09 (WTG 06)	06:43		05:58	06:08		05:34	06:01 (WTG 04)	05:28		06:04 (WTG 04)			
	17:07	39	08:48 (WTG 06)	17:46		18:18	19:51	20:22	88	19:57 (WTG 03)	20:39	106	20:13 (WTG 03)		
26	07:19	08:11 (WTG 06)	06:42		05:56	06:06		05:34	06:01 (WTG 04)	05:28		06:04 (WTG 04)			
	17:08	38	08:49 (WTG 06)	17:47		18:19	19:52	20:23	90	19:58 (WTG 03)	20:39	106	20:13 (WTG 03)		
27	07:18	08:11 (WTG 06)	06:40		05:54	06:05		05:33	06:01 (WTG 04)	05:29		06:04 (WTG 04)			
	17:10	38	08:49 (WTG 06)	17:48		18:20	19:53	20:24	90	19:58 (WTG 03)	20:39	106	20:13 (WTG 03)		
28	07:17	08:11 (WTG 06)	06:39		05:53	06:04		05:32	06:01 (WTG 04)	05:29		06:04 (WTG 04)			
	17:11	38	08:49 (WTG 06)	17:49		18:21	19:54	20:24	93	20:00 (WTG 03)	20:39	106	20:13 (WTG 03)		
29	07:16	08:12 (WTG 06)			06:51	06:02		05:32	06:00 (WTG 04)	05:30		06:04 (WTG 04)			
	17:12	37	08:49 (WTG 06)		19:22	19:55	1	06:21 (7)	05:32	20:25	95	20:00 (WTG 03)	20:39	105	20:13 (WTG 03)
30	07:16	08:12 (WTG 06)			06:49	06:01		06:20 (7)	05:31	06:01 (WTG 04)	05:30		06:05 (WTG 04)		
	17:13	37	08:49 (WTG 06)		19:23	19:57	2	06:22 (7)	05:31	20:26	95	20:01 (WTG 03)	20:39	105	20:13 (WTG 03)
31	07:15	08:13 (WTG 06)			06:47			05:31		06:00 (WTG 04)					
	17:15	35	08:48 (WTG 06)		19:24			20:27	98	20:02 (WTG 03)					
Ore potenziali eliofanìa	296		297		369	399		449			454				
Totale, caso peggiore	1067		203			3		1702			3118				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm)Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 133 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (438)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	06:05 (WTG 04) 20:13 (WTG 03)	05:55 20:19	06:22 (WTG 04) 19:36	06:57 18:45	06:31 16:57
2	05:31 20:38	06:05 (WTG 04) 20:13 (WTG 03)	05:56 20:18	06:23 (WTG 04) 19:34	06:27 18:43	06:33 16:56
3	05:32 20:38	06:05 (WTG 04) 20:12 (WTG 03)	05:57 20:17	06:25 (WTG 04) 19:32	06:28 18:41	06:34 16:55
4	05:32 20:38	06:06 (WTG 04) 20:13 (WTG 03)	05:58 20:16	06:27 (WTG 04) 19:31	06:29 18:39	06:35 16:54
5	05:33 20:38	06:06 (WTG 04) 20:12 (WTG 03)	05:59 20:15	06:30 (WTG 04) 19:29	06:30 18:38	06:36 16:52
6	05:33 20:38	06:06 (WTG 04) 20:12 (WTG 03)	06:00 20:14	06:31 (WTG 04) 19:27	06:31 18:36	06:38 16:51
7	05:34 20:37	06:07 (WTG 04) 20:12 (WTG 03)	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50
8	05:34 20:37	06:07 (WTG 04) 20:11 (WTG 03)	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49
9	05:35 20:37	06:07 (WTG 04) 20:11 (WTG 03)	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48
10	05:36 20:36	06:08 (WTG 04) 20:11 (WTG 03)	06:04 20:08	06:35 19:21	07:06 18:30	06:42 16:47
11	05:37 20:36	06:08 (WTG 04) 20:10 (WTG 03)	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46
12	05:37 20:35	06:08 (WTG 04) 20:10 (WTG 03)	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45
13	05:38 20:35	06:09 (WTG 04) 20:10 (WTG 03)	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44
14	05:39 20:34	06:09 (WTG 04) 20:10 (WTG 03)	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43
15	05:40 20:34	06:09 (WTG 04) 20:08 (WTG 03)	06:09 20:02	06:40 19:12	07:12 18:22	06:48 16:42
16	05:40 20:33	06:10 (WTG 04) 20:08 (WTG 03)	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41
17	05:41 20:33	06:10 (WTG 04) 20:08 (WTG 03)	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40
18	05:42 20:32	06:11 (WTG 04) 20:07 (WTG 03)	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40
19	05:43 20:31	06:11 (WTG 04) 20:06 (WTG 03)	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39
20	05:44 20:30	06:11 (WTG 04) 20:05 (WTG 03)	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38
21	05:45 20:30	06:12 (WTG 04) 20:05 (WTG 03)	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37
22	05:45 20:29	06:13 (WTG 04) 20:04 (WTG 03)	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37
23	05:46 20:28	06:14 (WTG 04) 20:04 (WTG 03)	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36
24	05:47 20:27	06:14 (WTG 04) 20:03 (WTG 03)	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:36
25	05:48 20:26	06:15 (WTG 04) 20:02 (WTG 03)	06:19 19:47	06:50 18:55	07:23 17:07	07:00 16:35
26	05:49 20:25	06:16 (WTG 04) 20:02 (WTG 03)	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34
27	05:50 20:24	06:16 (WTG 04) 20:00 (WTG 03)	06:21 19:44	06:53 18:51	07:26 17:04	07:02 16:34
28	05:51 20:23	06:17 (WTG 04) 19:59 (WTG 03)	06:22 19:42	06:54 18:50	07:27 17:02	07:04 16:34
29	05:52 20:22	06:18 (WTG 04) 19:58 (WTG 03)	06:23 19:41	06:55 18:48	07:28 17:01	07:05 16:33
30	05:53 20:21	06:19 (WTG 04) 19:57 (WTG 03)	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33
31	05:54 20:20	06:20 (WTG 04) 19:56 (WTG 03)	06:25 19:37	06:57 18:45	07:30 16:59	07:07 16:33
Ore potenziali eliofanía	460	429	375	345	297	287
Totale, caso peggiore	2696	189	955	726		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 134 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (439)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:15 (WTG 06)	07:14	06:37	06:46				05:59	06:29 (WTG 04)	05:30	06:29 (WTG 05)
	16:41	38 08:53 (WTG 06)	17:16	17:51	19:25				19:58	85 19:35 (WTG 03)	20:28	85 19:48 (WTG 03)
2	07:27	08:16 (WTG 06)	07:13	06:36	06:44				05:58	06:29 (WTG 04)	05:30	06:35 (WTG 04)
	16:42	37 08:53 (WTG 06)	17:17	17:52	19:26				19:59	88 19:36 (WTG 03)	20:28	82 19:47 (WTG 03)
3	07:28	08:16 (WTG 06)	07:12	06:34	06:42				05:57	06:24 (WTG 05)	05:29	06:36 (WTG 04)
	16:43	38 08:54 (WTG 06)	17:18	17:53	19:27				20:00	94 19:36 (WTG 03)	20:29	81 19:47 (WTG 03)
4	07:28	08:17 (WTG 06)	07:11	06:32	06:41				05:56	06:21 (WTG 05)	05:29	06:36 (WTG 04)
	16:44	37 08:54 (WTG 06)	17:20	17:54	19:28				20:01	99 19:37 (WTG 03)	20:30	80 19:47 (WTG 03)
5	07:28	08:17 (WTG 06)	07:10	06:31	06:39				05:54	06:20 (WTG 05)	05:28	06:36 (WTG 04)
	16:45	38 08:55 (WTG 06)	17:21	17:55	19:30				20:02	102 19:39 (WTG 03)	20:30	77 19:46 (WTG 03)
6	07:28	08:18 (WTG 06)	07:08	06:29	06:37				05:53	06:19 (WTG 05)	05:28	06:37 (WTG 04)
	16:46	37 08:55 (WTG 06)	17:22	17:56	19:31				20:03	106 19:40 (WTG 03)	20:31	75 19:46 (WTG 03)
7	07:28	08:18 (WTG 06)	07:07	06:28	06:36				05:52	06:18 (WTG 05)	05:28	06:38 (WTG 04)
	16:47	38 08:56 (WTG 06)	17:24	17:58	19:32				20:04	108 19:41 (WTG 03)	20:32	73 19:46 (WTG 03)
8	07:27	08:18 (WTG 06)	07:06	06:26	06:34				05:51	06:16 (WTG 05)	05:28	06:39 (WTG 04)
	16:48	37 08:55 (WTG 06)	17:25	17:59	19:33				20:05	110 19:41 (WTG 03)	20:32	71 19:46 (WTG 03)
9	07:27	08:19 (WTG 06)	07:05	06:24	06:33				05:49	06:16 (WTG 05)	05:27	06:38 (WTG 04)
	16:49	37 08:56 (WTG 06)	17:26	18:00	19:34				20:06	111 19:42 (WTG 03)	20:33	69 19:44 (WTG 03)
10	07:27	08:19 (WTG 06)	07:04	06:23	06:31				05:48	06:15 (WTG 05)	05:27	06:39 (WTG 04)
	16:50	38 08:57 (WTG 06)	17:27	18:01	19:35				20:07	114 19:43 (WTG 03)	20:34	67 19:44 (WTG 04)
11	07:27	08:20 (WTG 06)	07:03	06:21	06:29				05:47	06:15 (WTG 05)	05:27	06:40 (WTG 04)
	16:51	37 08:57 (WTG 06)	17:29	18:02	19:36				20:08	114 19:44 (WTG 03)	20:34	65 19:44 (WTG 03)
12	07:27	08:20 (WTG 06)	07:01	06:20	06:28				05:46	06:14 (WTG 05)	05:27	06:40 (WTG 04)
	16:52	37 08:57 (WTG 06)	17:30	18:03	19:37				20:09	116 19:45 (WTG 03)	20:35	65 19:44 (WTG 03)
13	07:26	08:21 (WTG 06)	07:00	06:18	06:26			06:59 (WTG 04)	05:45	06:14 (WTG 05)	05:27	06:41 (WTG 04)
	16:53	36 08:57 (WTG 06)	17:31	18:04	19:38		15 07:14 (WTG 04)	20:10	117 19:46 (WTG 03)	20:35	62 19:43 (WTG 03)	
14	07:26	08:21 (WTG 06)	06:59	06:16	06:24		06:53 (WTG 04)	05:44	06:14 (WTG 05)	05:27	06:41 (WTG 04)	
	16:54	36 08:57 (WTG 06)	17:32	18:05	19:39		25 07:18 (WTG 04)	20:11	118 19:47 (WTG 03)	20:36	60 19:43 (WTG 03)	
15	07:26	08:22 (WTG 06)	06:57	06:15	06:23		06:50 (WTG 04)	05:43	06:14 (WTG 05)	05:27	06:42 (WTG 04)	
	16:55	35 08:57 (WTG 06)	17:34	18:07	19:40		32 07:22 (WTG 04)	20:12	118 19:48 (WTG 03)	20:36	58 19:43 (WTG 03)	
16	07:25	08:22 (WTG 06)	06:56	06:13	06:21		06:47 (WTG 04)	05:42	06:14 (WTG 05)	05:27	06:42 (WTG 04)	
	16:56	35 08:57 (WTG 06)	17:35	18:08	19:41		36 07:23 (WTG 04)	20:13	119 19:49 (WTG 03)	20:36	57 19:42 (WTG 03)	
17	07:25	08:24 (WTG 06)	06:55	06:11	06:20		06:45 (WTG 04)	05:41	06:15 (WTG 05)	05:27	06:42 (WTG 04)	
	16:58	33 08:57 (WTG 06)	17:36	18:09	19:43		41 07:26 (WTG 04)	20:14	120 19:51 (WTG 03)	20:37	56 19:42 (WTG 03)	
18	07:24	08:24 (WTG 06)	06:53	06:09	06:18		06:42 (WTG 04)	05:40	06:15 (WTG 05)	05:27	06:43 (WTG 04)	
	16:59	33 08:57 (WTG 06)	17:37	18:10	19:44		45 07:27 (WTG 04)	20:15	119 19:51 (WTG 03)	20:37	55 19:42 (WTG 03)	
19	07:24	08:26 (WTG 06)	06:52	06:08	06:17		06:41 (WTG 04)	05:39	06:15 (WTG 05)	05:27	06:43 (WTG 04)	
	17:00	31 08:57 (WTG 06)	17:39	18:11	19:45		48 07:29 (WTG 04)	20:16	120 19:52 (WTG 03)	20:37	53 19:41 (WTG 03)	
20	07:23	08:26 (WTG 06)	06:51	06:06	06:15		06:39 (WTG 04)	05:38	06:15 (WTG 05)	05:27	06:44 (WTG 04)	
	17:01	30 08:56 (WTG 06)	17:40	18:12	19:46		50 07:29 (WTG 04)	20:17	119 19:52 (WTG 03)	20:38	53 19:42 (WTG 03)	
21	07:22	08:27 (WTG 06)	06:49	06:04	06:14		06:33 (7)	05:37	06:16 (WTG 05)	05:27	06:44 (WTG 04)	
	17:02	29 08:56 (WTG 06)	17:41	18:13	19:47		54 07:31 (WTG 04)	20:18	118 19:52 (WTG 03)	20:38	53 19:42 (WTG 03)	
22	07:22	08:29 (WTG 06)	06:48	06:03	06:12		06:31 (7)	05:37	06:17 (WTG 05)	05:27	06:44 (WTG 04)	
	17:03	27 08:56 (WTG 06)	17:42	18:14	19:48		57 07:31 (WTG 04)	20:19	115 19:52 (WTG 03)	20:38	53 19:42 (WTG 03)	
23	07:21	08:30 (WTG 06)	06:46	06:01	06:11		06:30 (7)	05:36	06:17 (WTG 05)	05:28	06:44 (WTG 04)	
	17:05	25 08:55 (WTG 06)	17:43	18:15	19:49		60 07:32 (WTG 04)	20:20	113 19:51 (WTG 03)	20:38	53 19:42 (WTG 03)	
24	07:20	08:31 (WTG 06)	06:45	05:59	06:09		06:28 (7)	05:35	06:17 (WTG 05)	05:28	06:45 (WTG 04)	
	17:06	22 08:53 (WTG 06)	17:45	18:17	19:50		61 07:32 (WTG 04)	20:21	113 19:51 (WTG 03)	20:39	54 19:44 (WTG 03)	
25	07:20	08:32 (WTG 06)	06:43	05:58	06:08		06:33 (WTG 04)	05:34	06:18 (WTG 05)	05:28	06:44 (WTG 04)	
	17:07	20 08:52 (WTG 06)	17:46	18:18	19:51		60 07:33 (WTG 04)	20:22	110 19:50 (WTG 03)	20:39	56 19:44 (WTG 03)	
26	07:19	08:35 (WTG 06)	06:42	05:56	06:06		06:32 (WTG 04)	05:34	06:19 (WTG 05)	05:28	06:44 (WTG 04)	
	17:08	16 08:51 (WTG 06)	17:47	18:19	19:52		64 19:29 (WTG 03)	20:23	109 19:51 (WTG 03)	20:39	56 19:44 (WTG 03)	
27	07:18	08:39 (WTG 06)	06:40	05:54	06:05		06:31 (WTG 04)	05:33	06:20 (WTG 05)	05:29	06:45 (WTG 04)	
	17:10	9 08:48 (WTG 06)	17:48	18:20	19:53		70 19:30 (WTG 03)	20:24	107 19:50 (WTG 03)	20:39	57 19:45 (WTG 03)	
28	07:17		06:39	05:53	06:04		06:31 (WTG 04)	05:32	06:21 (WTG 05)	05:29	06:45 (WTG 04)	
	17:11		17:49	18:21	19:54		75 19:32 (WTG 03)	20:24	104 19:50 (WTG 03)	20:39	59 19:46 (WTG 03)	
29	07:16			06:51	06:02		06:29 (WTG 04)	05:32	06:22 (WTG 05)	05:30	06:44 (WTG 04)	
	17:12			19:22	19:55		79 19:32 (WTG 03)	20:25	101 19:49 (WTG 03)	20:39	60 19:46 (WTG 03)	
30	07:16			06:49	06:01		82 06:29 (WTG 04)	05:31	06:24 (WTG 05)	05:30	06:45 (WTG 04)	
	17:13			19:23	19:57		19:33 (WTG 03)	20:26	98 19:49 (WTG 03)	20:39	62 19:47 (WTG 03)	
31	07:15			06:47				05:31	06:25 (WTG 05)			
	17:15			19:24				20:27	94 19:48 (WTG 03)			
Ore potenziali eliofanìa	296		297	369	399	954		449	3379		454	1907
Totale, caso peggiore	866											

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 134 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (439)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	06:44 (WTG 04) 20:19	05:55 115	06:25 (WTG 05) 19:55 (WTG 03)	06:26 19:36	06:31 18:45
2	05:31 20:39	06:44 (WTG 04) 19:49 (WTG 03)	05:56 114	06:25 (WTG 05) 19:54 (WTG 03)	06:27 19:34	06:33 18:43
3	05:32 20:38	06:44 (WTG 04) 19:49 (WTG 03)	05:57 112	06:26 (WTG 05) 19:53 (WTG 03)	06:28 19:32	06:34 18:41
4	05:32 20:38	06:44 (WTG 04) 19:51 (WTG 03)	05:58 111	06:26 (WTG 05) 19:52 (WTG 03)	06:29 19:31	06:35 18:39
5	05:33 20:38	06:43 (WTG 04) 19:51 (WTG 03)	05:59 108	06:27 (WTG 05) 19:51 (WTG 03)	06:30 19:29	06:36 18:38
6	05:33 20:38	06:44 (WTG 04) 19:52 (WTG 03)	06:00 106	06:28 (WTG 05) 19:50 (WTG 03)	06:31 19:27	06:38 18:36
7	05:34 20:37	06:44 (WTG 04) 19:53 (WTG 03)	06:01 104	06:29 (WTG 05) 19:49 (WTG 03)	06:32 19:26	06:39 18:34
8	05:34 20:37	06:43 (WTG 04) 19:53 (WTG 03)	06:02 101	06:30 (WTG 05) 19:48 (WTG 03)	06:33 19:24	06:40 18:33
9	05:35 20:37	06:43 (WTG 04) 19:54 (WTG 03)	06:03 98	06:32 (WTG 05) 19:47 (WTG 03)	06:34 19:22	06:41 18:31
10	05:36 20:36	06:43 (WTG 04) 19:55 (WTG 03)	06:04 94	06:34 (WTG 05) 19:46 (WTG 03)	06:35 19:21	06:42 18:30
11	05:37 20:36	06:42 (WTG 04) 19:55 (WTG 03)	06:05 86	06:38 (WTG 04) 19:44 (WTG 03)	06:36 19:19	06:44 18:28
12	05:37 20:35	06:34 (WTG 05) 19:56 (WTG 03)	06:06 84	06:38 (WTG 04) 19:43 (WTG 03)	06:37 19:17	06:45 18:26
13	05:38 20:35	06:33 (WTG 05) 19:57 (WTG 03)	06:07 81	06:38 (WTG 04) 19:42 (WTG 03)	06:38 19:15	06:46 18:25
14	05:39 20:34	06:32 (WTG 05) 19:58 (WTG 03)	06:08 79	06:38 (WTG 04) 19:41 (WTG 03)	06:39 19:14	06:47 18:23
15	05:40 20:34	06:30 (WTG 05) 19:58 (WTG 03)	06:09 73	06:39 (WTG 04) 19:39 (WTG 03)	06:40 19:12	06:48 18:22
16	05:40 20:33	06:29 (WTG 05) 19:59 (WTG 03)	06:10 70	06:39 (WTG 04) 19:38 (WTG 03)	06:41 19:10	06:50 18:20
17	05:41 20:33	06:29 (WTG 05) 20:00 (WTG 03)	06:11 64	06:38 (WTG 04) 19:36 (WTG 03)	06:42 19:09	06:51 18:18
18	05:42 20:32	06:29 (WTG 05) 20:00 (WTG 03)	06:12 60	06:39 (WTG 04) 07:39 (WTG 04)	06:43 19:07	06:52 18:17
19	05:43 20:31	06:27 (WTG 05) 20:00 (WTG 03)	06:13 61	06:34 (7) 07:38 (WTG 04)	06:44 19:05	06:53 18:15
20	05:44 20:30	06:27 (WTG 05) 20:01 (WTG 03)	06:14 60	06:35 (7) 07:37 (WTG 04)	06:45 19:03	06:54 18:14
21	05:45 20:30	06:27 (WTG 05) 20:01 (WTG 03)	06:15 57	06:36 (7) 07:36 (WTG 04)	06:46 19:02	06:56 18:12
22	05:45 20:29	06:26 (WTG 05) 20:02 (WTG 03)	06:16 54	06:37 (7) 07:35 (WTG 04)	06:47 19:00	06:57 18:11
23	05:46 20:28	06:26 (WTG 05) 20:02 (WTG 03)	06:17 50	06:43 (WTG 04) 07:33 (WTG 04)	06:48 18:58	06:58 18:09
24	05:47 20:27	06:26 (WTG 05) 20:03 (WTG 03)	06:18 47	06:44 (WTG 04) 07:31 (WTG 04)	06:49 18:56	06:59 18:08
25	05:48 20:26	06:26 (WTG 05) 20:02 (WTG 03)	06:19 44	06:46 (WTG 04) 07:30 (WTG 04)	06:50 18:55	07:00 17:07
26	05:49 20:25	06:26 (WTG 05) 20:02 (WTG 03)	06:20 41	06:47 (WTG 04) 07:28 (WTG 04)	06:51 18:53	07:01 17:05
27	05:50 20:24	06:25 (WTG 05) 20:00 (WTG 03)	06:21 36	06:49 (WTG 04) 07:25 (WTG 04)	06:53 18:51	07:02 17:04
28	05:51 20:23	06:25 (WTG 05) 19:59 (WTG 03)	06:22 31	06:51 (WTG 04) 07:22 (WTG 04)	06:54 18:50	07:04 17:02
29	05:52 20:22	06:25 (WTG 05) 19:58 (WTG 03)	06:23 25	06:54 (WTG 04) 07:19 (WTG 04)	06:55 18:48	07:05 17:01
30	05:53 20:21	06:25 (WTG 05) 19:57 (WTG 03)	06:24 14	06:59 (WTG 04) 07:13 (WTG 04)	06:56 18:46	07:06 17:00
31	05:54 20:20	06:25 (WTG 05) 19:56 (WTG 03)	06:25 429		06:30 16:59	
Ore potenziali eliofanìa	460			375	345	297
Totale, caso peggiore	3043	2180			454	1158

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Recettore d'ombra: 135 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (440)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:19 (WTG 06)	07:14	06:37	06:46				05:59	06:28 (WTG 04)	05:30	06:16 (WTG 05)
	16:41	39 08:58 (WTG 06)	17:16	17:51	19:25				19:58	78 19:35 (WTG 03)	20:28	107 19:48 (WTG 03)
2	07:27	08:19 (WTG 06)	07:13	06:36	06:44				05:58	06:27 (WTG 04)	05:30	06:16 (WTG 05)
	16:42	40 08:59 (WTG 06)	17:17	17:52	19:26				19:59	82 19:36 (WTG 03)	20:28	105 19:47 (WTG 03)
3	07:28	08:20 (WTG 06)	07:12	06:34	06:42				05:57	06:25 (WTG 04)	05:29	06:17 (WTG 05)
	16:43	39 08:59 (WTG 06)	17:18	17:53	19:27				20:00	85 19:36 (WTG 03)	20:29	103 19:47 (WTG 03)
4	07:28	08:20 (WTG 06)	07:11	06:32	06:41				05:56	06:25 (WTG 04)	05:29	06:18 (WTG 05)
	16:44	39 08:59 (WTG 06)	17:20	17:54	19:28				20:01	87 19:37 (WTG 03)	20:30	101 19:47 (WTG 03)
5	07:28	08:21 (WTG 06)	07:10	06:31	06:39				05:54	06:24 (WTG 04)	05:28	06:18 (WTG 05)
	16:45	39 09:00 (WTG 06)	17:21	17:55	19:30				20:02	92 19:39 (WTG 03)	20:30	99 19:46 (WTG 03)
6	07:28	08:21 (WTG 06)	07:08	06:29	06:37				05:53	06:24 (WTG 04)	05:28	06:19 (WTG 05)
	16:46	39 09:00 (WTG 06)	17:22	17:56	19:31				20:03	93 19:40 (WTG 03)	20:31	96 19:45 (WTG 03)
7	07:28	08:22 (WTG 06)	07:07	06:28	06:36				05:52	06:21 (WTG 05)	05:28	06:20 (WTG 05)
	16:47	39 09:01 (WTG 06)	17:24	17:58	19:32				20:04	99 19:41 (WTG 03)	20:32	95 19:45 (WTG 03)
8	07:27	08:22 (WTG 06)	07:06	06:26	06:34				05:51	06:18 (WTG 05)	05:28	06:21 (WTG 05)
	16:48	39 09:01 (WTG 06)	17:25	17:59	19:33				20:05	102 19:41 (WTG 03)	20:32	93 19:45 (WTG 03)
9	07:27	08:22 (WTG 06)	07:05	06:24	06:33				05:49	06:16 (WTG 05)	05:27	06:21 (WTG 05)
	16:49	39 09:01 (WTG 06)	17:26	18:00	19:34				20:06	106 19:42 (WTG 03)	20:33	91 19:44 (WTG 03)
10	07:27	08:23 (WTG 06)	07:04	06:23	06:31				05:48	06:15 (WTG 05)	05:27	06:22 (WTG 05)
	16:50	39 09:02 (WTG 06)	17:27	18:01	19:35				20:07	109 19:43 (WTG 03)	20:34	88 19:43 (WTG 03)
11	07:27	08:24 (WTG 06)	07:03	06:21	06:29				05:47	06:14 (WTG 05)	05:27	06:23 (WTG 05)
	16:51	38 09:02 (WTG 06)	17:29	18:02	19:36				20:08	111 19:44 (WTG 03)	20:34	86 19:43 (WTG 03)
12	07:27	08:24 (WTG 06)	07:01	06:20	06:28				05:46	06:13 (WTG 05)	05:27	06:24 (WTG 05)
	16:52	38 09:02 (WTG 06)	17:30	18:03	19:37				20:09	114 19:45 (WTG 03)	20:35	84 19:42 (WTG 03)
13	07:26	08:25 (WTG 06)	07:00	06:18	06:26				05:45	06:13 (WTG 05)	05:27	06:25 (WTG 04)
	16:53	37 09:02 (WTG 06)	17:31	18:04	19:38				20:10	115 19:46 (WTG 03)	20:35	82 19:42 (WTG 03)
14	07:26	08:25 (WTG 06)	06:59	06:16	06:24				05:44	06:12 (WTG 05)	05:27	06:25 (WTG 04)
	16:54	37 09:02 (WTG 06)	17:32	18:05	19:39				20:11	117 19:47 (WTG 03)	20:36	80 19:41 (WTG 03)
15	07:26	08:26 (WTG 06)	06:57	06:15	06:23				05:43	06:12 (WTG 05)	05:27	06:26 (WTG 04)
	16:55	36 09:02 (WTG 06)	17:34	18:07	19:40				20:12	118 19:48 (WTG 03)	20:36	78 19:41 (WTG 03)
16	07:25	08:26 (WTG 06)	06:56	06:13	06:21				05:42	06:11 (WTG 05)	05:27	06:26 (WTG 04)
	16:56	36 09:02 (WTG 06)	17:35	18:08	19:41				20:13	120 19:49 (WTG 03)	20:36	76 19:40 (WTG 03)
17	07:25	08:27 (WTG 06)	06:55	06:11	06:20				05:41	06:12 (WTG 05)	05:27	06:26 (WTG 04)
	16:58	35 09:02 (WTG 06)	17:36	18:09	19:43				20:14	121 19:51 (WTG 03)	20:37	74 19:39 (WTG 03)
18	07:24	08:28 (WTG 06)	06:53	06:09	06:18				05:40	06:12 (WTG 05)	05:27	06:26 (WTG 04)
	16:59	34 09:02 (WTG 06)	17:37	18:10	19:44				20:15	121 19:51 (WTG 03)	20:37	73 19:39 (WTG 03)
19	07:24	08:29 (WTG 06)	06:52	06:08	06:17				05:39	06:12 (WTG 05)	05:27	06:26 (WTG 04)
	17:00	33 09:02 (WTG 06)	17:39	18:11	19:45				20:16	122 19:52 (WTG 03)	20:37	71 19:38 (WTG 03)
20	07:23	08:30 (WTG 06)	06:51	06:06	06:15			06:52 (WTG 04)	05:38	06:11 (WTG 05)	05:27	06:27 (WTG 04)
	17:01	32 09:02 (WTG 06)	17:40	18:12	19:46		16	07:08 (WTG 04)	20:17	123 19:52 (WTG 03)	20:38	68 07:35 (WTG 04)
21	07:22	08:30 (WTG 06)	06:49	06:04	06:14			06:47 (WTG 04)	05:37	06:11 (WTG 05)	05:27	06:27 (WTG 04)
	17:02	31 09:01 (WTG 06)	17:41	18:13	19:47		26	07:13 (WTG 04)	20:18	121 19:51 (WTG 03)	20:38	68 07:35 (WTG 04)
22	07:22	08:32 (WTG 06)	06:48	06:03	06:12			06:43 (WTG 04)	05:37	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	17:03	29 09:01 (WTG 06)	17:42	18:14	19:48		33	07:16 (WTG 04)	20:19	121 19:52 (WTG 03)	20:38	68 07:35 (WTG 04)
23	07:21	08:33 (WTG 06)	06:46	06:01	06:11			06:30 (7)	05:36	06:12 (WTG 05)	05:28	06:27 (WTG 04)
	17:05	27 09:00 (WTG 06)	17:43	18:15	19:49		39	07:19 (WTG 04)	20:20	119 19:51 (WTG 03)	20:38	70 19:39 (WTG 03)
24	07:20	08:34 (WTG 06)	06:45	05:59	06:09			06:28 (7)	05:35	06:12 (WTG 05)	05:28	06:28 (WTG 04)
	17:06	25 08:59 (WTG 06)	17:45	18:17	19:50		45	07:20 (WTG 04)	20:21	118 19:51 (WTG 03)	20:39	72 19:40 (WTG 03)
25	07:20	08:36 (WTG 06)	06:43	05:58	06:08			06:27 (7)	05:34	06:12 (WTG 05)	05:28	06:28 (WTG 04)
	17:07	21 08:57 (WTG 06)	17:46	18:18	19:51		49	07:22 (WTG 04)	20:22	117 19:50 (WTG 03)	20:39	73 19:41 (WTG 03)
26	07:19	08:38 (WTG 06)	06:42	05:56	06:06			06:25 (7)	05:34	06:13 (WTG 05)	05:28	06:28 (WTG 04)
	17:08	19 08:57 (WTG 06)	17:47	18:19	19:52		53	07:23 (WTG 04)	20:23	116 19:50 (WTG 03)	20:39	75 19:42 (WTG 03)
27	07:18	08:41 (WTG 06)	06:40	05:54	06:05			06:33 (WTG 04)	05:33	06:13 (WTG 05)	05:29	06:29 (WTG 04)
	17:10	13 08:54 (WTG 06)	17:48	18:20	19:53		55	19:30 (WTG 03)	20:24	115 19:50 (WTG 03)	20:39	76 19:43 (WTG 03)
28	07:17	08:46 (WTG 06)	06:39	05:53	06:04			06:32 (WTG 04)	05:32	06:14 (WTG 05)	05:29	06:28 (WTG 04)
	17:11	4 08:50 (WTG 06)	17:49	18:21	19:54		62	19:32 (WTG 03)	20:24	114 19:50 (WTG 03)	20:39	79 19:44 (WTG 03)
29	07:16			06:51	06:02			06:30 (WTG 04)	05:32	06:14 (WTG 05)	05:30	06:28 (WTG 04)
	17:12			19:22	19:55		67	19:32 (WTG 03)	20:25	111 19:49 (WTG 03)	20:39	81 19:45 (WTG 03)
30	07:16			06:49	06:01			06:29 (WTG 04)	05:31	06:15 (WTG 05)	05:30	06:29 (WTG 04)
	17:13			19:23	19:57		72	19:33 (WTG 03)	20:26	110 19:49 (WTG 03)	20:39	82 19:46 (WTG 03)
31	07:15			06:47					05:31	06:15 (WTG 05)		
	17:15			19:24					20:27	108 19:48 (WTG 03)		
Ore potenziali eliofanìa	296		297	369	399				449		454	
Totale, caso peggiore	916				517				3385		2494	

Legenda della tabella:

Giorno del mese	Alba (hh:mm)		Inizio ombreggiamento (hh:mm)	(WTG che provoca l'inizio dell'ombreggiamento)
	Tramonto (hh:mm)	Minuti d'ombra	Fine ombreggiamento (hh:mm)	(WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 135 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (440)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:31 20:39	06:28 (WTG 04) 19:47 (WTG 03)	05:55 20:19	06:24 (WTG 05) 19:55 (WTG 03)	06:26 19:36	06:57 18:45	06:31 16:57	07:07 16:32	08:06 (WTG 06) 38 08:44 (WTG 06)
2	05:31 20:38	06:28 (WTG 05) 19:48 (WTG 03)	05:56 20:18	06:25 (WTG 05) 19:54 (WTG 03)	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32	08:06 (WTG 06) 39 08:45 (WTG 06)
3	05:32 20:38	06:27 (WTG 05) 19:48 (WTG 03)	05:57 20:17	06:26 (WTG 05) 19:53 (WTG 03)	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32	08:06 (WTG 06) 39 08:45 (WTG 06)
4	05:32 20:38	06:27 (WTG 05) 19:50 (WTG 03)	05:58 20:16	06:27 (WTG 05) 19:52 (WTG 03)	06:29 19:31	07:00 18:39	06:35 16:54	07:10 16:32	08:07 (WTG 06) 39 08:46 (WTG 06)
5	05:33 20:38	06:25 (WTG 05) 19:50 (WTG 03)	05:59 20:15	06:29 (WTG 05) 19:51 (WTG 03)	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31	08:07 (WTG 06) 39 08:46 (WTG 06)
6	05:33 20:38	06:25 (WTG 05) 19:51 (WTG 03)	06:00 20:14	06:32 (WTG 05) 19:50 (WTG 03)	06:31 19:27	07:02 18:36	06:38 16:51	07:12 16:31	08:07 (WTG 06) 40 08:47 (WTG 06)
7	05:34 20:37	06:25 (WTG 05) 19:53 (WTG 03)	06:01 20:12	06:34 (WTG 04) 19:49 (WTG 03)	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31	08:08 (WTG 06) 39 08:47 (WTG 06)
8	05:34 20:37	06:24 (WTG 05) 19:53 (WTG 03)	06:02 20:11	06:34 (WTG 04) 19:48 (WTG 03)	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31	08:08 (WTG 06) 40 08:48 (WTG 06)
9	05:35 20:37	06:24 (WTG 05) 19:54 (WTG 03)	06:03 20:10	06:35 (WTG 04) 19:47 (WTG 03)	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31	08:09 (WTG 06) 39 08:48 (WTG 06)
10	05:36 20:36	06:24 (WTG 05) 19:55 (WTG 03)	06:04 20:08	06:35 (WTG 04) 19:46 (WTG 03)	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31	08:08 (WTG 06) 40 08:48 (WTG 06)
11	05:37 20:36	06:23 (WTG 05) 19:55 (WTG 03)	06:05 20:07	06:36 (WTG 04) 19:44 (WTG 03)	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31	08:09 (WTG 06) 39 08:48 (WTG 06)
12	05:37 20:35	06:23 (WTG 05) 19:56 (WTG 03)	06:06 20:06	06:37 (WTG 04) 19:43 (WTG 03)	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31	08:10 (WTG 06) 39 08:49 (WTG 06)
13	05:38 20:35	06:23 (WTG 05) 19:57 (WTG 03)	06:07 20:04	06:38 (WTG 04) 19:42 (WTG 03)	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31	08:10 (WTG 06) 39 08:49 (WTG 06)
14	05:39 20:34	06:23 (WTG 05) 19:58 (WTG 03)	06:08 20:03	06:39 (WTG 04) 19:41 (WTG 03)	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32	08:11 (WTG 06) 39 08:50 (WTG 06)
15	05:40 20:34	06:22 (WTG 05) 19:58 (WTG 03)	06:09 20:02	06:40 (WTG 04) 19:39 (WTG 03)	06:40 19:12	07:12 18:22	06:48 16:42	07:20 16:32	08:11 (WTG 06) 39 08:50 (WTG 06)
16	05:40 20:33	06:22 (WTG 05) 19:59 (WTG 03)	06:10 20:00	06:33 (7) 19:38 (WTG 03)	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32	08:12 (WTG 06) 39 08:51 (WTG 06)
17	05:41 20:33	06:22 (WTG 05) 19:59 (WTG 03)	06:11 19:59	06:32 (7) 07:29 (WTG 04)	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32	08:12 (WTG 06) 39 08:51 (WTG 06)
18	05:42 20:32	06:22 (WTG 05) 20:00 (WTG 03)	06:12 19:57	06:33 (7) 07:28 (WTG 04)	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33	08:12 (WTG 06) 39 08:51 (WTG 06)
19	05:43 20:31	06:21 (WTG 05) 20:00 (WTG 03)	06:13 19:56	06:34 (7) 07:25 (WTG 04)	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33	08:13 (WTG 06) 39 08:52 (WTG 06)
20	05:44 20:30	06:22 (WTG 05) 20:01 (WTG 03)	06:14 19:54	06:35 (7) 07:23 (WTG 04)	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:34	08:13 (WTG 06) 39 08:52 (WTG 06)
21	05:45 20:30	06:22 (WTG 05) 20:01 (WTG 03)	06:15 19:53	06:49 (WTG 04) 07:20 (WTG 04)	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34	08:14 (WTG 06) 39 08:53 (WTG 06)
22	05:45 20:29	06:22 (WTG 05) 20:02 (WTG 03)	06:16 19:51	06:52 (WTG 04) 07:17 (WTG 04)	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34	08:14 (WTG 06) 39 08:53 (WTG 06)
23	05:46 20:28	06:22 (WTG 05) 20:02 (WTG 03)	06:17 19:50	06:57 (WTG 04) 07:11 (WTG 04)	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35	08:15 (WTG 06) 39 08:54 (WTG 06)
24	05:47 20:27	06:22 (WTG 05) 20:03 (WTG 03)	06:18 19:48	06:49 18:56	06:49 18:56	07:22 18:08	06:59 16:36	07:25 16:36	08:15 (WTG 06) 39 08:54 (WTG 06)
25	05:48 20:26	06:22 (WTG 05) 20:02 (WTG 03)	06:19 19:47	06:50 18:55	06:50 18:55	07:23 17:07	07:00 16:35	07:25 16:36	08:16 (WTG 06) 39 08:55 (WTG 06)
26	05:49 20:25	06:22 (WTG 05) 20:02 (WTG 03)	06:20 19:45	06:51 18:53	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37	08:16 (WTG 06) 39 08:55 (WTG 06)
27	05:50 20:24	06:22 (WTG 05) 20:00 (WTG 03)	06:21 19:44	06:53 18:51	06:53 18:51	07:25 17:04	07:02 16:34	07:26 16:37	08:17 (WTG 06) 38 08:55 (WTG 06)
28	05:51 20:23	06:22 (WTG 05) 19:59 (WTG 03)	06:22 19:42	06:54 18:50	06:54 18:50	07:26 17:02	07:04 16:34	07:26 16:38	08:17 (WTG 06) 39 08:56 (WTG 06)
29	05:52 20:22	06:23 (WTG 05) 19:58 (WTG 03)	06:23 19:41	06:55 18:48	06:55 18:48	07:27 17:01	07:05 16:33	07:27 16:39	08:18 (WTG 06) 39 08:57 (WTG 06)
30	05:53 20:21	06:23 (WTG 05) 19:57 (WTG 03)	06:24 19:39	06:56 18:46	06:56 18:46	07:28 17:00	07:06 16:33	07:27 16:40	08:18 (WTG 06) 39 08:57 (WTG 06)
31	05:54 20:20	06:24 (WTG 05) 19:56 (WTG 03)	06:25 19:37	06:57 18:46	06:57 18:46	07:29 16:59	07:07 16:59	07:27 16:40	08:19 (WTG 06) 39 08:58 (WTG 06)
Ore potenziali eliofanìa	460	429		375	345	297		287	
Totale, caso peggiore	3392	1648				488		1210	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 136 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (441)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	08:20 (WTG 06)	07:14	06:37	06:46				05:59	06:28 (WTG 04)	05:30	06:16 (WTG 05)
	16:41	39 08:59 (WTG 06)	17:16	17:51	19:25				19:58	80 19:35 (WTG 03)	20:28	107 19:47 (WTG 03)
2	07:27	08:20 (WTG 06)	07:13	06:36	06:44				05:58	06:27 (WTG 04)	05:30	06:16 (WTG 05)
	16:42	39 08:59 (WTG 06)	17:17	17:52	19:26				19:59	84 19:36 (WTG 03)	20:28	104 19:46 (WTG 03)
3	07:28	08:21 (WTG 06)	07:12	06:34	06:42				05:57	06:26 (WTG 04)	05:29	06:18 (WTG 05)
	16:43	39 09:00 (WTG 06)	17:18	17:53	19:27				20:00	87 19:36 (WTG 03)	20:29	100 19:45 (WTG 03)
4	07:28	08:21 (WTG 06)	07:11	06:32	06:41				05:56	06:25 (WTG 04)	05:29	06:19 (WTG 05)
	16:44	39 09:00 (WTG 06)	17:20	17:54	19:28				20:01	90 19:37 (WTG 03)	20:30	99 19:45 (WTG 03)
5	07:28	08:22 (WTG 06)	07:10	06:31	06:39				05:54	06:25 (WTG 04)	05:28	06:19 (WTG 05)
	16:45	39 09:01 (WTG 06)	17:21	17:55	19:30				20:02	93 19:39 (WTG 03)	20:30	97 19:44 (WTG 03)
6	07:28	08:22 (WTG 06)	07:08	06:29	06:37				05:53	06:24 (WTG 04)	05:28	06:20 (WTG 05)
	16:46	39 09:01 (WTG 06)	17:22	17:56	19:31				20:03	96 19:40 (WTG 03)	20:31	95 19:44 (WTG 03)
7	07:28	08:23 (WTG 06)	07:07	06:28	06:36				05:52	06:21 (WTG 05)	05:28	06:21 (WTG 05)
	16:47	39 09:02 (WTG 06)	17:24	17:58	19:32				20:04	101 19:41 (WTG 03)	20:32	91 19:43 (WTG 03)
8	07:27	08:22 (WTG 06)	07:06	06:26	06:34				05:51	06:18 (WTG 05)	05:28	06:22 (WTG 05)
	16:48	39 09:01 (WTG 06)	17:25	17:59	19:33				20:05	105 19:41 (WTG 03)	20:32	90 19:43 (WTG 03)
9	07:27	08:23 (WTG 06)	07:05	06:24	06:33				05:49	06:16 (WTG 05)	05:27	06:22 (WTG 05)
	16:49	39 09:02 (WTG 06)	17:26	18:00	19:34				20:06	108 19:42 (WTG 03)	20:33	87 19:41 (WTG 03)
10	07:27	08:24 (WTG 06)	07:04	06:23	06:31				05:48	06:15 (WTG 05)	05:27	06:23 (WTG 05)
	16:50	38 09:02 (WTG 06)	17:27	18:01	19:35				20:07	111 19:43 (WTG 03)	20:34	84 19:41 (WTG 03)
11	07:27	08:25 (WTG 06)	07:03	06:21	06:29				05:47	06:14 (WTG 05)	05:27	06:24 (WTG 05)
	16:51	38 09:03 (WTG 06)	17:29	18:02	19:36				20:08	114 19:44 (WTG 03)	20:34	81 19:40 (WTG 03)
12	07:27	08:25 (WTG 06)	07:01	06:20	06:28				05:46	06:14 (WTG 05)	05:27	06:25 (WTG 05)
	16:52	37 09:02 (WTG 06)	17:30	18:03	19:37				20:09	115 19:45 (WTG 03)	20:35	78 19:39 (WTG 03)
13	07:26	08:26 (WTG 06)	07:00	06:18	06:26				05:45	06:13 (WTG 05)	05:27	06:26 (WTG 04)
	16:53	37 09:03 (WTG 06)	17:31	18:04	19:38				20:10	117 19:46 (WTG 03)	20:35	75 19:38 (WTG 03)
14	07:26	08:26 (WTG 06)	06:59	06:16	06:24				05:44	06:12 (WTG 05)	05:27	06:26 (WTG 04)
	16:54	36 09:02 (WTG 06)	17:32	18:05	19:39				20:11	119 19:47 (WTG 03)	20:36	69 07:35 (WTG 04)
15	07:26	08:27 (WTG 06)	06:57	06:15	06:23				05:43	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:55	36 09:03 (WTG 06)	17:34	18:07	19:40				20:12	120 19:48 (WTG 03)	20:36	68 07:35 (WTG 04)
16	07:25	08:27 (WTG 06)	06:56	06:13	06:21				05:42	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:56	35 09:02 (WTG 06)	17:35	18:08	19:41				20:13	121 19:49 (WTG 03)	20:36	68 07:35 (WTG 04)
17	07:25	08:28 (WTG 06)	06:55	06:11	06:20				05:41	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:58	35 09:03 (WTG 06)	17:36	18:09	19:43				20:14	123 19:51 (WTG 03)	20:37	68 07:35 (WTG 04)
18	07:24	08:29 (WTG 06)	06:53	06:09	06:18				05:40	06:12 (WTG 05)	05:27	06:27 (WTG 04)
	16:59	33 09:02 (WTG 06)	17:37	18:10	19:44				20:15	122 19:51 (WTG 03)	20:37	68 07:35 (WTG 04)
19	07:24	08:30 (WTG 06)	06:52	06:08	06:17		06:57 (WTG 04)	05:39	06:12 (WTG 05)	05:27	06:27 (WTG 04)	
	17:00	33 09:03 (WTG 06)	17:39	18:11	19:45	10	07:07 (WTG 04)	20:16	122 19:51 (WTG 03)	20:37	68 07:35 (WTG 04)	
20	07:23	08:31 (WTG 06)	06:51	06:06	06:15		06:50 (WTG 04)	05:38	06:12 (WTG 05)	05:27	06:28 (WTG 04)	
	17:01	31 09:02 (WTG 06)	17:40	18:12	19:46	23	07:13 (WTG 04)	20:17	122 19:51 (WTG 03)	20:38	68 07:36 (WTG 04)	
21	07:22	08:32 (WTG 06)	06:49	06:04	06:14		06:46 (WTG 04)	05:37	06:12 (WTG 05)	05:27	06:28 (WTG 04)	
	17:02	29 09:01 (WTG 06)	17:41	18:13	19:47	31	07:17 (WTG 04)	20:18	120 19:50 (WTG 03)	20:38	68 07:36 (WTG 04)	
22	07:22	08:33 (WTG 06)	06:48	06:03	06:12		06:43 (WTG 04)	05:37	06:12 (WTG 05)	05:27	06:28 (WTG 04)	
	17:03	28 09:01 (WTG 06)	17:42	18:14	19:48	36	07:19 (WTG 04)	20:19	121 19:51 (WTG 03)	20:38	68 07:36 (WTG 04)	
23	07:21	08:34 (WTG 06)	06:46	06:01	06:11		06:30 (7)	05:36	06:12 (WTG 05)	05:28	06:28 (WTG 04)	
	17:05	26 09:00 (WTG 06)	17:43	18:15	19:49	42	07:21 (WTG 04)	20:20	120 19:50 (WTG 03)	20:38	68 07:36 (WTG 04)	
24	07:20	08:36 (WTG 06)	06:45	05:59	06:09		06:28 (7)	05:35	06:12 (WTG 05)	05:28	06:29 (WTG 04)	
	17:06	23 08:59 (WTG 06)	17:45	18:17	19:50	47	07:22 (WTG 04)	20:21	119 19:50 (WTG 03)	20:39	68 07:37 (WTG 04)	
25	07:20	08:37 (WTG 06)	06:43	05:58	06:08		06:27 (7)	05:34	06:12 (WTG 05)	05:28	06:29 (WTG 04)	
	17:07	20 08:57 (WTG 06)	17:46	18:18	19:51	52	07:24 (WTG 04)	20:22	117 19:49 (WTG 03)	20:39	68 07:37 (WTG 04)	
26	07:19	08:40 (WTG 06)	06:42	05:56	06:06		06:25 (7)	05:34	06:13 (WTG 05)	05:28	06:29 (WTG 04)	
	17:08	16 08:56 (WTG 06)	17:47	18:19	19:52	55	07:25 (WTG 04)	20:23	116 19:49 (WTG 03)	20:39	68 07:37 (WTG 04)	
27	07:18	08:43 (WTG 06)	06:40	05:54	06:05		06:33 (WTG 04)	05:33	06:13 (WTG 05)	05:29	06:30 (WTG 04)	
	17:10	10 08:53 (WTG 06)	17:48	18:20	19:53	59	19:30 (WTG 03)	20:24	114 19:48 (WTG 03)	20:39	68 07:38 (WTG 04)	
28	07:17		06:39	05:53	06:04		06:32 (WTG 04)	05:32	06:14 (WTG 05)	05:29	06:30 (WTG 04)	
	17:11		17:49	18:21	19:54	66	19:32 (WTG 03)	20:24	114 19:49 (WTG 03)	20:39	68 07:38 (WTG 04)	
29	07:16			06:51	06:02		06:30 (WTG 04)	05:32	06:14 (WTG 05)	05:30	06:29 (WTG 04)	
	17:12			19:22	19:55	70	19:32 (WTG 03)	20:25	111 19:48 (WTG 03)	20:39	73 19:40 (WTG 03)	
30	07:16			06:49	06:01		06:29 (WTG 04)	05:31	06:15 (WTG 05)	05:30	06:30 (WTG 04)	
	17:13			19:23	19:57	75	19:33 (WTG 03)	20:26	110 19:48 (WTG 03)	20:39	76 19:43 (WTG 03)	
31	07:15			06:47				05:31				
	17:15			19:24				20:27	108 19:47 (WTG 03)			
Ore potenziali eliofanía	296		297	369	399			449	3420		454	2358
Totale, caso peggiore	892				566							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 136 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (441)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	06:29 (WTG 05) 19:44 (WTG 03)	05:55 20:19	06:24 (WTG 05) 19:55 (WTG 03)	06:26 18:45	06:31 16:57
2	05:31 20:38	06:28 (WTG 05) 19:45 (WTG 03)	05:56 20:18	06:25 (WTG 05) 19:54 (WTG 03)	06:27 18:43	06:33 16:56
3	05:32 20:38	06:27 (WTG 05) 19:46 (WTG 03)	05:57 20:17	06:26 (WTG 05) 19:53 (WTG 03)	06:28 18:41	06:34 16:55
4	05:32 20:38	06:27 (WTG 05) 19:48 (WTG 03)	05:58 20:16	06:27 (WTG 05) 19:52 (WTG 03)	06:29 18:39	06:35 16:54
5	05:33 20:38	06:26 (WTG 05) 19:48 (WTG 03)	05:59 20:15	06:29 (WTG 05) 19:51 (WTG 03)	06:30 18:38	06:36 16:52
6	05:33 20:38	06:26 (WTG 05) 19:49 (WTG 03)	06:00 20:14	06:31 (WTG 05) 19:50 (WTG 03)	06:31 18:36	06:38 16:51
7	05:34 20:37	06:26 (WTG 05) 19:51 (WTG 03)	06:01 20:12	06:34 (WTG 04) 19:49 (WTG 03)	06:32 18:34	06:39 16:50
8	05:34 20:37	06:25 (WTG 05) 19:51 (WTG 03)	06:02 20:11	06:35 (WTG 04) 19:48 (WTG 03)	06:33 18:33	06:40 16:49
9	05:35 20:37	06:25 (WTG 05) 19:52 (WTG 03)	06:03 20:10	06:35 (WTG 04) 19:47 (WTG 03)	06:34 18:31	06:41 16:48
10	05:36 20:36	06:25 (WTG 05) 19:53 (WTG 03)	06:04 20:08	06:36 (WTG 04) 19:46 (WTG 03)	06:35 18:30	06:42 16:47
11	05:37 20:36	06:24 (WTG 05) 19:54 (WTG 03)	06:05 20:07	06:36 (WTG 04) 19:44 (WTG 03)	06:36 18:28	06:44 16:46
12	05:37 20:35	06:24 (WTG 05) 19:55 (WTG 03)	06:06 20:06	06:37 (WTG 04) 19:43 (WTG 03)	06:37 18:26	06:45 16:45
13	05:38 20:35	06:24 (WTG 05) 19:56 (WTG 03)	06:07 20:04	06:38 (WTG 04) 19:42 (WTG 03)	06:38 18:25	06:46 16:44
14	05:39 20:34	06:24 (WTG 05) 19:57 (WTG 03)	06:08 20:03	06:39 (WTG 04) 19:41 (WTG 03)	06:39 18:23	06:47 16:43
15	05:40 20:34	06:23 (WTG 05) 19:57 (WTG 03)	06:09 20:02	06:40 (WTG 04) 19:39 (WTG 03)	06:40 18:22	06:48 16:42
16	05:40 20:33	06:23 (WTG 05) 19:57 (WTG 03)	06:10 20:00	06:41 (WTG 04) 19:38 (WTG 03)	06:41 18:20	06:50 16:41
17	05:41 20:33	06:23 (WTG 05) 19:58 (WTG 03)	06:11 19:59	06:42 (7) 07:31 (WTG 04)	06:42 18:18	06:51 16:40
18	05:42 20:32	06:23 (WTG 05) 19:59 (WTG 03)	06:12 19:57	06:43 (7) 07:30 (WTG 04)	06:43 18:17	06:52 16:40
19	05:43 20:31	06:22 (WTG 05) 19:59 (WTG 03)	06:13 19:56	06:44 (7) 07:28 (WTG 04)	06:44 18:15	06:53 16:39
20	05:44 20:30	06:22 (WTG 05) 19:59 (WTG 03)	06:14 19:54	06:45 (7) 07:26 (WTG 04)	06:45 18:14	06:54 16:38
21	05:45 20:30	06:22 (WTG 05) 20:00 (WTG 03)	06:15 19:53	06:46 (7) 07:23 (WTG 04)	06:46 18:12	06:56 16:37
22	05:45 20:29	06:22 (WTG 05) 20:01 (WTG 03)	06:16 19:51	06:47 (7) 07:20 (WTG 04)	06:47 18:11	06:57 16:37
23	05:46 20:28	06:22 (WTG 05) 20:01 (WTG 03)	06:17 19:50	06:48 (7) 07:16 (WTG 04)	06:48 18:09	06:58 16:36
24	05:47 20:27	06:22 (WTG 05) 20:02 (WTG 03)	06:18 19:48	06:49 (7) 07:08 (WTG 04)	06:49 18:08	06:59 16:36
25	05:48 20:26	06:23 (WTG 05) 20:02 (WTG 03)	06:19 19:47	06:50 (7) 07:07 (WTG 04)	06:50 18:07	07:00 16:35
26	05:49 20:25	06:23 (WTG 05) 20:02 (WTG 03)	06:20 19:45	06:51 (7) 07:05 (WTG 04)	06:51 18:06	07:01 16:34
27	05:50 20:24	06:22 (WTG 05) 20:00 (WTG 03)	06:21 19:44	06:52 (7) 07:04 (WTG 04)	06:52 18:05	07:02 16:34
28	05:51 20:23	06:22 (WTG 05) 19:59 (WTG 03)	06:22 19:42	06:53 (7) 07:01 (WTG 04)	06:53 18:04	07:03 16:33
29	05:52 20:22	06:23 (WTG 05) 19:58 (WTG 03)	06:23 19:41	06:54 (7) 07:00 (WTG 04)	06:54 18:03	07:04 16:33
30	05:53 20:21	06:23 (WTG 05) 19:57 (WTG 03)	06:24 19:39	06:55 (7) 07:00 (WTG 04)	06:55 18:02	07:05 16:33
31	05:54 20:20	06:24 (WTG 05) 19:56 (WTG 03)	06:25 19:37	06:56 (7) 06:59	06:56 18:01	07:06 16:33
Ore potenziali eliofanía	460	429		375	345	297
Totale, caso peggiore	3369	1726			465	1208

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



SHADOW - Calendario

Recettore d'ombra: 137 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (442)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	06:47 (WTG 04) 07:40 (WTG 04)	05:55 20:19	06:26 (WTG 05) 19:55 (WTG 03)	06:26 19:36	07:07 16:32
2	05:31 20:39	06:47 (WTG 04) 07:41 (WTG 04)	05:56 20:18	06:27 (WTG 05) 19:54 (WTG 03)	06:27 19:34	07:08 16:32
3	05:32 20:38	06:47 (WTG 04) 07:40 (WTG 04)	05:57 20:17	06:27 (WTG 05) 19:53 (WTG 03)	06:28 19:32	07:09 16:32
4	05:32 20:38	06:47 (WTG 04) 07:41 (WTG 04)	05:58 20:16	06:28 (WTG 05) 19:52 (WTG 03)	06:29 19:31	07:10 16:32
5	05:33 20:38	06:46 (WTG 04) 07:41 (WTG 04)	05:59 20:15	06:28 (WTG 05) 19:51 (WTG 03)	06:30 19:29	07:11 16:31
6	05:33 20:38	06:46 (WTG 04) 07:42 (WTG 04)	06:00 20:14	06:29 (WTG 05) 19:50 (WTG 03)	06:31 19:27	07:12 16:31
7	05:34 20:37	06:47 (WTG 04) 07:43 (WTG 04)	06:01 20:12	06:30 (WTG 05) 19:49 (WTG 03)	06:32 19:26	07:13 16:31
8	05:34 20:37	06:46 (WTG 04) 07:43 (WTG 04)	06:02 20:11	06:31 (WTG 05) 19:48 (WTG 03)	06:33 19:24	07:14 16:31
9	05:35 20:37	06:46 (WTG 04) 07:44 (WTG 04)	06:03 20:10	06:33 (WTG 05) 19:47 (WTG 03)	06:34 19:22	07:15 16:31
10	05:36 20:36	06:46 (WTG 04) 07:45 (WTG 04)	06:04 20:08	06:36 (WTG 05) 19:46 (WTG 03)	06:35 19:21	07:16 16:31
11	05:37 20:36	06:35 (WTG 05) 07:45 (WTG 04)	06:05 20:07	06:41 (WTG 04) 19:44 (WTG 03)	06:36 19:19	07:16 16:31
12	05:37 20:35	06:33 (WTG 05) 19:39 (WTG 03)	06:06 20:06	06:42 (WTG 04) 19:43 (WTG 03)	06:37 19:17	07:17 16:31
13	05:38 20:35	06:33 (WTG 05) 19:42 (WTG 03)	06:07 20:04	06:42 (WTG 04) 19:42 (WTG 03)	06:38 19:15	07:18 16:31
14	05:39 20:34	06:32 (WTG 05) 19:44 (WTG 03)	06:08 20:03	06:42 (WTG 04) 19:41 (WTG 03)	06:39 19:14	07:19 16:32
15	05:40 20:34	06:30 (WTG 05) 19:45 (WTG 03)	06:09 20:02	06:42 (WTG 04) 19:39 (WTG 03)	06:40 19:12	07:20 16:32
16	05:40 20:33	06:30 (WTG 05) 19:47 (WTG 03)	06:10 20:00	06:43 (WTG 04) 19:38 (WTG 03)	06:41 19:10	07:20 16:32
17	05:41 20:33	06:30 (WTG 05) 19:48 (WTG 03)	06:11 19:59	06:42 (WTG 04) 19:36 (WTG 03)	06:42 19:09	07:21 16:32
18	05:42 20:32	06:29 (WTG 05) 19:49 (WTG 03)	06:12 19:57	06:43 (WTG 04) 19:34 (WTG 03)	06:43 19:07	07:22 16:33
19	05:43 20:31	06:28 (WTG 05) 19:49 (WTG 03)	06:13 19:56	06:34 (7) 19:33 (WTG 03)	06:44 19:05	07:22 16:33
20	05:44 20:30	06:28 (WTG 05) 19:51 (WTG 03)	06:14 19:54	06:35 (7) 19:31 (WTG 03)	06:45 19:03	07:23 16:34
21	05:45 20:30	06:27 (WTG 05) 19:52 (WTG 03)	06:15 19:53	06:36 (7) 07:46 (WTG 04)	06:46 19:02	07:23 16:34
22	05:45 20:29	06:27 (WTG 05) 19:52 (WTG 03)	06:16 19:51	06:37 (7) 07:44 (WTG 04)	06:47 19:00	07:24 16:34
23	05:46 20:28	06:27 (WTG 05) 19:53 (WTG 03)	06:17 19:50	06:46 (WTG 04) 07:43 (WTG 04)	06:48 18:58	07:24 16:35
24	05:47 20:27	06:27 (WTG 05) 19:54 (WTG 03)	06:18 19:48	06:47 (WTG 04) 07:42 (WTG 04)	06:49 18:56	07:25 16:36
25	05:48 20:26	06:27 (WTG 05) 19:55 (WTG 03)	06:19 19:47	06:48 (WTG 04) 07:40 (WTG 04)	06:50 18:55	07:25 16:36
26	05:49 20:25	06:27 (WTG 05) 19:55 (WTG 03)	06:20 19:45	06:50 (WTG 04) 07:38 (WTG 04)	06:51 18:53	07:26 16:37
27	05:50 20:24	06:26 (WTG 05) 19:55 (WTG 03)	06:21 19:44	06:51 (WTG 04) 07:36 (WTG 04)	06:53 18:51	07:26 16:37
28	05:51 20:23	06:26 (WTG 05) 19:56 (WTG 03)	06:22 19:42	06:53 (WTG 04) 07:34 (WTG 04)	06:54 18:50	07:26 16:38
29	05:52 20:22	06:26 (WTG 05) 19:56 (WTG 03)	06:23 19:41	06:55 (WTG 04) 07:31 (WTG 04)	06:55 18:48	07:27 16:39
30	05:53 20:21	06:26 (WTG 05) 19:56 (WTG 03)	06:24 19:39	06:58 (WTG 04) 07:28 (WTG 04)	06:56 18:46	07:27 16:40
31	05:54 20:20	06:26 (WTG 05) 19:56 (WTG 03)	06:25 19:37	07:01 (WTG 04) 07:24 (WTG 04)	06:57 18:44	07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	287
Totale, caso peggiore	2839	2576	9	304	1169	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 138 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (443)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno		
1	07:27		09:40 (WTG 04)		06:37		16:49 (WTG 03)		06:46		05:59	
	16:41	11	09:51 (WTG 04)		17:16		17:06 (WTG 03)		19:25		19:58	
2	07:27		09:43 (WTG 04)		07:13		16:53 (WTG 03)		06:44		05:58	
	16:42	6	09:49 (WTG 04)		17:17		17:03 (WTG 03)		19:26		19:59	
3	07:28				07:12		06:34		06:42		05:57	
	16:43				17:18		17:53		19:27		20:00	
4	07:28				07:11		06:32		06:41		05:56	
	16:44				17:20		17:54	8	07:22 (WTG 05)		19:28	
5	07:28				07:10		06:31		07:10 (WTG 05)		06:39	
	16:45				17:21		17:55	15	07:25 (WTG 05)		19:30	
6	07:28				07:08		06:29		06:49 (7)		06:37	
	16:46				17:22		17:56	22	07:27 (WTG 05)		19:31	
7	07:28				07:07		06:28		06:47 (7)		06:36	
	16:47				17:24		17:58	31	07:29 (WTG 05)		19:32	
8	07:27				07:06		06:26		06:45 (7)		06:34	
	16:48		9	16:53 (WTG 03)		17:59		07:30 (WTG 05)		19:33		20:05
9	07:27		07:05		16:51 (WTG 03)		06:24		06:45 (7)		06:33	
	16:49		12	17:03 (WTG 03)		18:00		07:30 (WTG 05)		19:34		20:06
10	07:27		07:04		16:49 (WTG 03)		06:23		06:46 (7)		06:31	
	16:50		16	17:05 (WTG 03)		18:01		07:31 (WTG 05)		19:35		20:07
11	07:27		07:03		16:47 (WTG 03)		06:21		06:46 (7)		06:29	
	16:51		18	17:05 (WTG 03)		18:02		07:31 (WTG 05)		19:36		20:08
12	07:27		07:01		16:46 (WTG 03)		06:20		06:59 (WTG 05)		06:28	
	16:52		21	17:07 (WTG 03)		18:03		07:31 (WTG 05)		19:37		20:09
13	07:26		07:00		16:45 (WTG 03)		06:18		07:00 (WTG 05)		06:26	
	16:53		24	17:09 (WTG 03)		18:04		07:31 (WTG 05)		19:38		20:10
14	07:26		06:59		16:44 (WTG 03)		06:16		06:59 (WTG 05)		06:24	
	16:54		25	17:09 (WTG 03)		18:05		07:31 (WTG 05)		19:39		20:11
15	07:26		06:57		16:44 (WTG 03)		06:15		06:59 (WTG 05)		06:23	
	16:55		27	17:11 (WTG 03)		18:07		07:30 (WTG 05)		19:40		20:12
16	07:25		06:56		16:44 (WTG 03)		06:13		06:59 (WTG 05)		06:21	
	16:56		29	17:13 (WTG 03)		18:08		07:30 (WTG 05)		19:41		20:13
17	07:25		06:55		16:43 (WTG 03)		06:11		06:59 (WTG 05)		06:20	
	16:58		30	17:13 (WTG 03)		18:09		07:29 (WTG 05)		19:43		20:14
18	07:24		06:53		16:43 (WTG 03)		06:09		06:59 (WTG 05)		06:18	
	16:59		32	17:15 (WTG 03)		18:10		07:28 (WTG 05)		19:44		20:15
19	07:24		06:52		16:42 (WTG 03)		06:08		06:59 (WTG 05)		06:17	
	17:00		34	17:16 (WTG 03)		18:11		07:26 (WTG 05)		19:45		20:16
20	07:23		06:51		16:42 (WTG 03)		06:06		07:01 (WTG 05)		06:15	
	17:01		34	17:16 (WTG 03)		18:12		07:26 (WTG 05)		19:46		20:17
21	07:22		06:49		16:42 (WTG 03)		06:04		07:01 (WTG 05)		06:14	
	17:02		33	17:15 (WTG 03)		18:13		07:24 (WTG 05)		19:47		20:18
22	07:22		06:48		16:43 (WTG 03)		06:03		07:02 (WTG 05)		06:12	
	17:03		32	17:15 (WTG 03)		18:14		07:21 (WTG 05)		19:48		20:19
23	07:21		06:46		16:44 (WTG 03)		06:01		07:05 (WTG 05)		06:11	
	17:05		31	17:15 (WTG 03)		18:15		07:19 (WTG 05)		19:49		20:20
24	07:20		06:45		16:44 (WTG 03)		05:59		06:09		05:35	
	17:06		30	17:14 (WTG 03)		18:17		07:14 (WTG 03)		19:50		20:21
25	07:20		06:43		16:45 (WTG 03)		05:58		06:08		05:34	
	17:07		29	17:14 (WTG 03)		18:18		07:14 (WTG 03)		19:51		20:22
26	07:19		06:42		16:45 (WTG 03)		05:56		06:06		05:34	
	17:08		27	17:12 (WTG 03)		18:19		07:12 (WTG 03)		19:52		20:23
27	07:18		06:40		16:46 (WTG 03)		05:54		06:05		05:33	
	17:10		24	17:10 (WTG 03)		18:20		07:10 (WTG 03)		19:53		20:24
28	07:17		06:39		16:48 (WTG 03)		05:53		06:04		05:32	
	17:11		21	17:09 (WTG 03)		18:21		07:09 (WTG 03)		19:54		20:24
29	07:16				06:51				06:02		05:32	
	17:12				19:22				19:55		20:25	
30	07:16				06:49				06:01		05:31	
	17:13				19:23				19:57		20:26	
31	07:15				06:47						05:31	
	17:15				19:24						20:27	
Ore potenziali eliofanìa	296		297		369		399		449		454	
Totale, caso peggiore	17		538		570		399		159		123	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 138 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (443)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	07:39 (WTG 05) 06:31 08:10 (WTG 05) 16:57	16:18 (WTG 03) 07:07 16:33 (WTG 03) 16:32
2	05:31 20:39	20:01 (WTG 02) 05:56 20:07 (WTG 02) 20:18	06:27 19:34	06:58 18:43	07:27 (7) 06:33 08:10 (WTG 05) 16:56	16:21 (WTG 03) 07:08 16:33 (WTG 03) 16:32
3	05:32 20:38	20:00 (WTG 02) 05:57 20:07 (WTG 02) 20:17	06:28 19:32	06:59 18:41	07:24 (7) 06:34 08:09 (WTG 05) 16:55	16:24 (WTG 03) 07:09 16:31 (WTG 03) 16:32
4	05:32 20:38	20:00 (WTG 02) 05:58 20:09 (WTG 02) 20:16	06:29 19:31	07:00 18:39	07:23 (7) 06:35 08:08 (WTG 05) 16:54	07:10 16:32
5	05:33 20:38	19:58 (WTG 02) 05:59 20:09 (WTG 02) 20:15	06:30 19:29	07:01 18:38	07:22 (7) 06:36 08:07 (WTG 05) 16:52	07:11 16:31
6	05:33 20:38	19:58 (WTG 02) 06:00 20:11 (WTG 02) 20:14	06:31 19:27	07:02 18:36	07:22 (7) 06:38 08:05 (WTG 05) 16:51	07:12 16:31
7	05:34 20:37	19:58 (WTG 02) 06:01 20:12 (WTG 02) 20:12	06:32 19:26	07:03 18:34	07:23 (7) 06:39 08:03 (WTG 05) 16:50	07:13 16:31
8	05:34 20:37	19:57 (WTG 02) 06:02 20:11 (WTG 02) 20:11	06:33 19:24	07:04 18:33	07:43 (WTG 05) 06:40 08:01 (WTG 05) 16:49	07:14 16:31
9	05:35 20:37	19:57 (WTG 02) 06:03 20:11 (WTG 02) 20:10	06:34 19:22	07:05 18:31	07:46 (WTG 05) 06:41 07:59 (WTG 05) 16:48	07:15 16:31
10	05:36 20:36	19:57 (WTG 02) 06:04 20:11 (WTG 02) 20:08	06:35 19:21	07:06 18:30	06:42 16:47	07:16 16:31
11	05:37 20:36	19:56 (WTG 02) 06:05 20:10 (WTG 02) 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	05:37 20:35	19:56 (WTG 02) 06:06 20:10 (WTG 02) 20:06	06:37 19:17	07:08 18:26	17:25 (WTG 03) 06:45 17:39 (WTG 03) 16:45	09:32 (WTG 04) 09:38 (WTG 04)
13	05:38 20:35	19:56 (WTG 02) 06:07 20:10 (WTG 02) 20:04	06:38 19:15	07:10 18:25	17:22 (WTG 03) 06:46 17:41 (WTG 03) 16:44	09:30 (WTG 04) 09:41 (WTG 04)
14	05:39 20:34	19:55 (WTG 02) 06:08 20:09 (WTG 02) 20:03	06:39 19:14	07:11 18:23	17:20 (WTG 03) 06:47 17:42 (WTG 03) 16:43	11 09:29 (WTG 04) 09:43 (WTG 04)
15	05:40 20:34	19:55 (WTG 02) 06:09 20:08 (WTG 02) 20:02	06:40 19:12	07:12 18:22	17:18 (WTG 03) 06:48 17:43 (WTG 03) 16:42	14 09:29 (WTG 04) 09:45 (WTG 04)
16	05:40 20:33	19:55 (WTG 02) 06:10 20:08 (WTG 02) 20:00	06:41 19:10	07:13 18:20	17:17 (WTG 03) 06:50 17:45 (WTG 03) 16:41	16 09:28 (WTG 04) 09:48 (WTG 04)
17	05:41 20:33	19:55 (WTG 02) 06:11 20:08 (WTG 02) 19:59	06:42 19:09	07:14 18:18	17:16 (WTG 03) 06:51 17:45 (WTG 03) 16:40	21 09:28 (WTG 04) 09:50 (WTG 04)
18	05:42 20:32	19:55 (WTG 02) 06:12 20:07 (WTG 02) 19:57	06:43 19:07	07:15 18:17	17:15 (WTG 03) 06:52 17:46 (WTG 03) 16:40	22 09:27 (WTG 04) 09:50 (WTG 04)
19	05:43 20:31	19:54 (WTG 02) 06:13 20:06 (WTG 02) 19:56	06:44 19:05	07:16 18:15	17:14 (WTG 03) 06:53 17:46 (WTG 03) 16:39	23 09:28 (WTG 04) 09:52 (WTG 04)
20	05:44 20:30	19:55 (WTG 02) 06:14 20:05 (WTG 02) 19:54	06:45 19:03	07:17 18:14	17:13 (WTG 03) 06:54 17:46 (WTG 03) 16:38	24 09:28 (WTG 04) 09:52 (WTG 04)
21	05:44 20:30	19:55 (WTG 02) 06:15 20:05 (WTG 02) 19:53	06:46 19:02	07:19 18:12	17:13 (WTG 03) 06:56 17:46 (WTG 03) 16:37	24 09:29 (WTG 04) 09:53 (WTG 04)
22	05:45 20:29	19:55 (WTG 02) 06:16 20:04 (WTG 02) 19:51	06:47 19:00	07:20 18:11	17:13 (WTG 03) 06:57 17:47 (WTG 03) 16:37	24 09:29 (WTG 04) 09:53 (WTG 04)
23	05:46 20:28	19:55 (WTG 02) 06:17 20:04 (WTG 02) 19:50	06:48 18:58	07:21 18:09	17:13 (WTG 03) 06:58 17:46 (WTG 03) 16:36	24 09:30 (WTG 04) 09:54 (WTG 04)
24	05:47 20:27	19:55 (WTG 02) 06:18 20:03 (WTG 02) 19:48	06:49 18:56	07:22 18:08	17:12 (WTG 03) 06:59 17:44 (WTG 03) 16:36	24 09:30 (WTG 04) 09:54 (WTG 04)
25	05:48 20:26	19:56 (WTG 02) 06:19 20:02 (WTG 02) 19:47	06:50 18:55	07:23 17:07	16:12 (WTG 03) 07:00 16:43 (WTG 03) 16:35	24 09:31 (WTG 04) 09:55 (WTG 04)
26	05:49 20:25	19:55 (WTG 02) 06:20 20:01 (WTG 02) 19:45	06:51 18:53	07:24 17:05	16:13 (WTG 03) 07:01 16:42 (WTG 03) 16:34	22 09:32 (WTG 04) 09:54 (WTG 04)
27	05:50 20:24	19:56 (WTG 02) 06:21 20:00 (WTG 02) 19:44	06:52 18:51	07:26 17:04	16:14 (WTG 03) 07:02 16:40 (WTG 03) 16:34	22 09:32 (WTG 04) 09:54 (WTG 04)
28	05:51 20:23	19:56 (WTG 02) 06:22 19:59 (WTG 02) 19:42	06:54 18:50	07:27 17:02	16:14 (WTG 03) 07:04 16:39 (WTG 03) 16:34	22 09:34 (WTG 04) 09:55 (WTG 04)
29	05:52 20:22	19:57 (WTG 02) 06:23 19:58 (WTG 02) 19:41	06:55 18:48	07:28 17:01	16:14 (WTG 03) 07:05 16:37 (WTG 03) 16:33	21 09:35 (WTG 04) 09:54 (WTG 04)
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	16:16 (WTG 03) 07:06 16:36 (WTG 03) 16:33	19 09:36 (WTG 04) 09:54 (WTG 04)
31	05:54 20:20	06:25 19:37	06:57 18:46	07:30 17:00	16:17 (WTG 03) 07:07 16:35 (WTG 03) 16:33	18 09:37 (WTG 04) 09:53 (WTG 04)
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	287		285	800	34	439

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 139 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (444)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	06:37 17:51	16:50 (WTG 03) 17:06 (WTG 03)	06:46 19:25	05:59 19:58	
2	07:27 16:42	07:13 17:17	06:36 17:52	16:55 (WTG 03) 17:02 (WTG 03)	06:44 19:26	05:58 19:59	14
3	07:28 16:43	07:12 17:18	06:34 17:53	06:46 (7) 19:27	06:42 19:27	05:57 20:00	14
4	07:28 16:44	07:11 17:20	06:32 17:54	07:13 (WTG 05) 07:25 (WTG 05)	06:41 19:28	05:56 20:01	14
5	07:28 16:45	07:10 17:21	06:31 17:55	07:09 (WTG 05) 07:27 (WTG 05)	06:39 19:30	05:54 20:02	12
6	07:28 16:46	07:08 17:22	06:29 17:56	06:48 (7) 07:28 (WTG 05)	06:37 19:31	05:53 20:03	10
7	07:28 16:47	07:07 17:24	06:28 17:58	06:47 (7) 07:30 (WTG 05)	06:36 19:32	05:52 20:04	8
8	07:27 16:48	07:06 17:25	06:26 17:02 (WTG 03)	06:46 (7) 16:51 (WTG 03)	06:34 19:33	05:51 20:05	6
9	07:27 16:49	07:05 17:26	06:24 17:03 (WTG 03)	06:45 (7) 07:31 (WTG 05)	06:33 19:34	05:49 20:06	2
10	07:27 16:50	07:04 17:27	06:23 17:05 (WTG 03)	06:46 (7) 07:32 (WTG 05)	06:31 19:35	05:48 20:07	
11	07:27 16:51	07:03 17:29	06:21 17:05 (WTG 03)	06:48 (7) 07:32 (WTG 05)	06:29 19:36	05:47 20:08	
12	07:27 16:52	07:01 17:30	06:20 17:07 (WTG 03)	07:00 (WTG 05) 07:32 (WTG 05)	06:28 19:37	05:46 20:09	
13	07:26 16:53	07:00 17:31	06:18 17:09 (WTG 03)	07:00 (WTG 05) 07:32 (WTG 05)	06:26 19:38	05:45 20:10	
14	07:26 16:54	06:59 17:32	06:16 17:09 (WTG 03)	07:00 (WTG 05) 07:32 (WTG 05)	06:24 19:39	05:44 20:11	1
15	07:26 16:55	06:57 17:34	06:15 17:11 (WTG 03)	06:59 (WTG 05) 07:31 (WTG 05)	06:23 19:40	05:43 20:12	3
16	07:25 16:56	06:56 17:35	06:13 17:13 (WTG 03)	07:00 (WTG 05) 07:31 (WTG 05)	06:21 19:41	05:42 20:13	4
17	07:25 16:58	06:55 17:36	06:11 17:13 (WTG 03)	07:00 (WTG 05) 07:30 (WTG 05)	06:20 19:43	05:41 20:14	6
18	07:24 16:59	06:53 17:37	06:09 17:15 (WTG 03)	07:00 (WTG 05) 07:29 (WTG 05)	06:18 19:44	05:40 20:15	6
19	07:24 17:00	06:52 17:39	06:08 17:16 (WTG 03)	07:00 (WTG 05) 07:27 (WTG 05)	06:17 19:45	05:39 20:16	8
20	07:23 17:01	06:51 17:40	06:06 17:16 (WTG 03)	07:02 (WTG 05) 07:26 (WTG 05)	06:15 19:46	05:38 20:17	9
21	07:22 17:02	06:49 17:41	06:04 17:15 (WTG 03)	07:03 (WTG 05) 07:24 (WTG 05)	06:14 19:47	05:37 20:18	9
22	07:22 17:03	06:48 17:42	06:03 17:15 (WTG 03)	07:04 (WTG 05) 07:21 (WTG 05)	06:12 19:48	05:37 20:19	10
23	07:21 17:05	06:46 17:43	06:01 17:15 (WTG 03)	07:07 (WTG 05) 07:19 (WTG 05)	06:11 19:49	05:36 20:20	11
24	07:20 17:06	06:45 17:45	05:59 17:14 (WTG 03)	06:09 19:50	05:35 20:21	05:35 20:21	11
25	07:20 17:07	06:43 17:46	05:58 17:14 (WTG 03)	06:08 19:51	05:34 20:22	05:34 20:22	13
26	07:19 17:08	06:42 17:47	05:56 17:12 (WTG 03)	06:06 19:52	05:34 20:23	05:34 20:23	13
27	07:18 17:10	06:40 17:48	05:54 17:10 (WTG 03)	06:05 19:53	05:33 20:24	05:33 20:24	13
28	07:17 17:11	06:39 17:49	05:53 17:09 (WTG 03)	06:04 19:54	05:32 20:24	05:32 20:24	14
29	07:16 17:12		06:51 19:22	06:02 19:55	05:32 20:25	05:32 20:25	14
30	07:16 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:31 20:26	14
31	07:15 17:15		06:47 19:24		05:31 20:27	05:31 20:27	14
Ore potenziali eliofanìa	296	297	369	399	449	454	94
Totale, caso peggiore		535	576		173		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 139 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (444)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	07:40 (WTG 05) 06:31 08:11 (WTG 05) 16:57	16:18 (WTG 03) 07:07 16:33 (WTG 03) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	07:40 (WTG 05) 06:33 08:11 (WTG 05) 16:56	16:21 (WTG 03) 07:08 16:33 (WTG 03) 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	07:25 (7) 06:34 08:10 (WTG 05) 16:55	16:24 (WTG 03) 07:09 16:31 (WTG 03) 16:32
4	05:32 20:38	20:01 (WTG 02) 05:58 20:06 (WTG 02) 20:16	06:29 19:31	07:00 18:39	07:23 (7) 06:35 08:09 (WTG 05) 16:54	07:10 16:32
5	05:33 20:38	20:00 (WTG 02) 05:59 20:07 (WTG 02) 20:15	06:30 19:29	07:01 18:38	07:22 (7) 06:36 08:08 (WTG 05) 16:52	07:11 16:31
6	05:33 20:38	19:59 (WTG 02) 06:00 20:09 (WTG 02) 20:14	06:31 19:27	07:02 18:36	07:22 (7) 06:38 08:07 (WTG 05) 16:51	07:12 16:31
7	05:34 20:37	19:59 (WTG 02) 06:01 20:10 (WTG 02) 20:12	06:32 19:26	07:03 18:34	07:23 (7) 06:39 08:05 (WTG 05) 16:50	07:13 16:31
8	05:34 20:37	19:58 (WTG 02) 06:02 20:11 (WTG 02) 20:11	06:33 19:24	07:04 18:33	07:43 (WTG 05) 06:40 08:03 (WTG 05) 16:49	07:14 16:31
9	05:35 20:37	19:57 (WTG 02) 06:03 20:11 (WTG 02) 20:10	06:34 19:22	07:05 18:31	07:46 (WTG 05) 06:41 08:01 (WTG 05) 16:48	07:15 16:31
10	05:36 20:36	19:57 (WTG 02) 06:04 20:11 (WTG 02) 20:08	06:35 19:21	07:06 18:30	07:50 (WTG 05) 06:42 07:57 (WTG 05) 16:47	07:16 16:31
11	05:37 20:36	19:56 (WTG 02) 06:05 20:10 (WTG 02) 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	05:37 20:35	19:56 (WTG 02) 06:06 20:10 (WTG 02) 20:06	06:37 19:17	07:08 18:26	17:26 (WTG 03) 06:45 17:38 (WTG 03) 16:45	07:17 16:31
13	05:38 20:35	19:56 (WTG 02) 06:07 20:10 (WTG 02) 20:04	06:38 19:15	07:10 18:25	17:22 (WTG 03) 06:46 17:40 (WTG 03) 16:44	07:18 16:31
14	05:39 20:34	19:55 (WTG 02) 06:08 20:09 (WTG 02) 20:03	06:39 19:14	07:11 18:23	17:20 (WTG 03) 06:47 17:42 (WTG 03) 16:43	07:19 16:32
15	05:40 20:34	19:55 (WTG 02) 06:09 20:08 (WTG 02) 20:02	06:40 19:12	07:12 18:22	17:18 (WTG 03) 06:48 17:43 (WTG 03) 16:42	07:20 16:32
16	05:40 20:33	19:55 (WTG 02) 06:10 20:08 (WTG 02) 20:00	06:41 19:10	07:13 18:20	17:18 (WTG 03) 06:50 17:45 (WTG 03) 16:41	07:20 16:32
17	05:41 20:33	19:55 (WTG 02) 06:11 20:08 (WTG 02) 19:59	06:42 19:09	07:14 18:18	17:16 (WTG 03) 06:51 17:45 (WTG 03) 16:40	07:21 16:32
18	05:42 20:32	19:55 (WTG 02) 06:12 20:07 (WTG 02) 19:57	06:43 19:07	07:15 18:17	17:15 (WTG 03) 06:52 17:46 (WTG 03) 16:40	07:22 16:33
19	05:43 20:31	19:54 (WTG 02) 06:13 20:06 (WTG 02) 19:56	06:44 19:05	07:16 18:15	17:14 (WTG 03) 06:53 17:46 (WTG 03) 16:39	07:22 16:33
20	05:44 20:30	19:54 (WTG 02) 06:14 20:05 (WTG 02) 19:54	06:45 19:03	07:17 18:14	17:14 (WTG 03) 06:54 17:46 (WTG 03) 16:38	07:23 16:33
21	05:44 20:30	19:54 (WTG 02) 06:15 20:05 (WTG 02) 19:53	06:46 19:02	07:19 18:12	17:13 (WTG 03) 06:56 17:46 (WTG 03) 16:37	07:23 16:34
22	05:45 20:29	19:54 (WTG 02) 06:16 20:04 (WTG 02) 19:51	06:47 19:00	07:20 18:11	17:13 (WTG 03) 06:57 17:46 (WTG 03) 16:37	07:24 16:34
23	05:46 20:28	19:55 (WTG 02) 06:17 20:04 (WTG 02) 19:50	06:48 18:58	07:21 18:09	17:13 (WTG 03) 06:58 17:46 (WTG 03) 16:36	07:24 16:35
24	05:47 20:27	19:55 (WTG 02) 06:18 20:03 (WTG 02) 19:48	06:49 18:56	07:22 18:08	17:13 (WTG 03) 06:59 17:44 (WTG 03) 16:36	07:25 16:35
25	05:48 20:26	19:55 (WTG 02) 06:19 20:02 (WTG 02) 19:47	06:50 18:55	07:23 18:07	16:12 (WTG 03) 07:00 16:43 (WTG 03) 16:35	07:25 16:36
26	05:49 20:25	19:55 (WTG 02) 06:20 20:01 (WTG 02) 19:45	06:51 18:53	07:24 18:06	16:14 (WTG 03) 07:01 16:42 (WTG 03) 16:34	07:26 16:37
27	05:50 20:24	19:55 (WTG 02) 06:21 20:00 (WTG 02) 19:44	06:52 18:51	07:26 18:05	16:14 (WTG 03) 07:02 16:40 (WTG 03) 16:34	07:26 16:37
28	05:51 20:23	19:55 (WTG 02) 06:22 19:59 (WTG 02) 19:42	06:54 18:50	07:27 18:04	16:14 (WTG 03) 07:04 16:39 (WTG 03) 16:34	07:26 16:38
29	05:52 20:22	19:56 (WTG 02) 06:23 19:58 (WTG 02) 19:41	06:55 18:48	07:28 18:03	16:14 (WTG 03) 07:05 16:37 (WTG 03) 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 18:02	16:16 (WTG 03) 07:06 16:36 (WTG 03) 16:33	07:27 16:39
31	05:54 20:20	06:25 19:37	06:57 18:45	07:30 18:01	16:17 (WTG 03) 07:07 16:35 (WTG 03) 16:33	07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	266		277	808	34	232

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 140 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (445)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	06:37 17:51	16:52 (WTG 03) 17:03 (WTG 03)	06:46 19:25	05:59 19:58	
2	07:27 16:42	07:13 17:17	06:36 17:52		06:44 19:26	05:58 19:59	14
3	07:28 16:43	07:12 17:18	06:34 17:53	07:14 (WTG 05) 07:27 (WTG 05)	06:42 19:27	05:57 20:00	11
4	07:28 16:44	07:11 17:20	06:32 17:54	07:12 (WTG 05) 07:30 (WTG 05)	06:41 19:28	05:56 20:01	10
5	07:28 16:45	07:10 17:21	06:31 17:55	06:51 (7) 07:31 (WTG 05)	06:39 19:30	05:54 20:02	7
6	07:28 16:46	07:08 17:22	06:29 17:56	06:48 (7) 07:32 (WTG 05)	06:37 19:31	05:53 20:03	2
7	07:28 16:47	07:07 17:24	06:28 17:00 (WTG 03)	06:48 (7) 07:34 (WTG 05)	06:36 19:32	05:52 20:04	
8	07:27 16:48	07:06 17:25	06:26 17:02 (WTG 03)	06:47 (7) 07:34 (WTG 05)	06:34 19:33	05:51 20:05	
9	07:27 16:49	07:05 17:26	06:24 17:03 (WTG 03)	06:47 (7) 07:34 (WTG 05)	06:33 19:34	05:49 20:06	
10	07:27 16:50	07:04 17:27	06:23 17:05 (WTG 03)	06:49 (7) 07:35 (WTG 05)	06:31 19:35	05:48 20:07	
11	07:27 16:51	07:03 17:29	06:21 17:05 (WTG 03)	07:03 (WTG 05) 07:35 (WTG 05)	06:29 19:36	05:47 20:08	
12	07:27 16:52	07:01 17:30	06:20 17:07 (WTG 03)	07:02 (WTG 05) 07:34 (WTG 05)	06:28 19:37	05:46 20:09	
13	07:26 16:53	07:00 17:31	06:18 17:09 (WTG 03)	07:02 (WTG 05) 07:35 (WTG 05)	06:26 19:38	05:45 20:10	
14	07:26 16:54	06:59 17:32	06:16 17:09 (WTG 03)	07:02 (WTG 05) 07:34 (WTG 05)	06:24 19:39	05:44 20:11	2
15	07:26 16:55	06:57 17:34	06:15 17:11 (WTG 03)	07:02 (WTG 05) 07:33 (WTG 05)	06:23 19:40	05:43 20:12	3
16	07:25 16:56	06:56 17:35	06:13 17:13 (WTG 03)	07:02 (WTG 05) 07:33 (WTG 05)	06:21 19:41	05:42 20:13	5
17	07:25 16:58	06:55 17:36	06:11 17:13 (WTG 03)	07:02 (WTG 05) 07:31 (WTG 05)	06:20 19:43	05:41 20:14	6
18	07:24 16:59	06:53 17:37	06:09 17:15 (WTG 03)	07:03 (WTG 05) 07:30 (WTG 05)	06:18 19:44	05:40 20:15	8
19	07:24 17:00	06:52 17:39	06:08 17:15 (WTG 03)	07:03 (WTG 05) 07:28 (WTG 05)	06:17 19:45	05:39 20:16	10
20	07:23 17:01	06:51 17:40	06:06 17:15 (WTG 03)	07:05 (WTG 05) 07:27 (WTG 05)	06:15 19:46	05:38 20:17	12
21	07:22 17:02	06:49 17:41	06:04 17:14 (WTG 03)	07:06 (WTG 05) 07:24 (WTG 05)	06:14 19:47	05:37 20:18	10
22	07:22 17:03	06:48 17:42	06:03 17:14 (WTG 03)	07:09 (WTG 05) 07:21 (WTG 05)	06:12 19:48	05:37 20:19	11
23	07:21 17:05	06:46 17:43	06:01 17:14 (WTG 03)		06:11 19:49	05:36 20:20	12
24	07:20 17:06	06:45 17:45	05:59 17:13 (WTG 03)		06:09 19:50	05:35 20:21	12
25	07:20 17:07	06:43 17:46	05:58 17:12 (WTG 03)		06:08 19:51	05:34 20:22	13
26	07:19 17:08	06:42 17:47	05:56 17:11 (WTG 03)		06:06 19:52	05:34 20:23	13
27	07:18 17:10	06:40 17:48	05:54 17:09 (WTG 03)		06:05 19:53	05:33 20:24	13
28	07:17 17:11	06:39 17:49	05:53 17:07 (WTG 03)		06:04 19:54	05:32 20:24	14
29	07:16 17:12		06:51 19:22		06:02 19:55	05:32 20:25	14
30	07:16 17:13		06:49 19:23		06:01 19:57	05:31 20:26	13
31	07:15 17:15		06:47 19:24			05:31 20:27	14
Ore potenziali eliofanìa	296	297	369	399	449	454	
Totale, caso peggiore		529	571		190		44

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 140 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (445)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	07:41 (WTG 05) 16:57	16:17 (WTG 03) 07:07
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	07:41 (WTG 05) 16:56	16:33 (WTG 03) 07:08
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	07:41 (WTG 05) 16:54	16:32 (WTG 03) 07:09
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	07:25 (7) 16:54	16:31 (WTG 03) 07:10
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	07:24 (7) 16:52	16:31 07:11
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	07:23 (7) 16:51	16:31 07:12
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	07:23 (7) 16:50	16:31 07:13
8	05:34 20:37	20:00 (WTG 02) 20:05 (WTG 02)	06:02 20:11	06:33 19:24	07:04 18:33	16:50 16:31
9	05:35 20:37	19:59 (WTG 02) 20:07 (WTG 02)	06:03 20:10	06:34 19:22	07:05 18:31	16:49 16:31
10	05:36 20:36	19:58 (WTG 02) 20:09 (WTG 02)	06:04 20:08	06:35 19:21	07:06 18:30	16:48 16:31
11	05:37 20:36	19:57 (WTG 02) 20:09 (WTG 02)	06:05 20:07	06:36 19:19	07:07 18:28	16:47 16:31
12	05:37 20:35	19:56 (WTG 02) 20:10 (WTG 02)	06:06 20:06	06:37 19:17	07:08 18:26	16:46 16:31
13	05:38 20:35	19:56 (WTG 02) 20:10 (WTG 02)	06:07 20:04	06:38 19:15	07:10 18:25	16:46 16:31
14	05:39 20:34	19:55 (WTG 02) 20:09 (WTG 02)	06:08 20:03	06:39 19:14	07:11 18:23	16:44 16:32
15	05:40 20:34	19:55 (WTG 02) 20:08 (WTG 02)	06:09 20:02	06:40 19:12	07:12 18:22	16:43 16:32
16	05:40 20:33	19:54 (WTG 02) 20:08 (WTG 02)	06:10 20:00	06:41 19:10	07:13 18:20	16:42 16:32
17	05:41 20:33	19:54 (WTG 02) 20:08 (WTG 02)	06:11 19:09	06:42 19:09	07:14 18:18	16:41 16:32
18	05:42 20:32	19:54 (WTG 02) 20:07 (WTG 02)	06:12 19:07	06:43 19:07	07:15 18:17	16:40 16:33
19	05:43 20:31	19:53 (WTG 02) 20:06 (WTG 02)	06:13 19:05	06:44 19:05	07:16 18:15	16:39 16:33
20	05:44 20:30	19:53 (WTG 02) 20:05 (WTG 02)	06:14 19:03	06:45 19:03	07:17 18:14	16:38 16:33
21	05:44 20:30	19:53 (WTG 02) 20:05 (WTG 02)	06:15 19:02	06:46 19:02	07:19 18:12	16:37 16:34
22	05:45 20:29	19:53 (WTG 02) 20:04 (WTG 02)	06:16 19:01	06:47 19:00	07:20 18:11	16:37 16:34
23	05:46 20:28	19:53 (WTG 02) 20:04 (WTG 02)	06:17 19:00	06:48 18:59	07:21 18:11	16:37 16:34
24	05:47 20:27	19:53 (WTG 02) 20:03 (WTG 02)	06:18 18:58	06:49 18:58	07:22 18:09	16:36 16:35
25	05:48 20:26	19:54 (WTG 02) 20:02 (WTG 02)	06:19 18:57	06:50 18:57	07:23 18:08	16:36 16:35
26	05:49 20:25	19:53 (WTG 02) 20:01 (WTG 02)	06:20 18:56	06:51 18:56	07:24 18:08	16:35 16:35
27	05:50 20:24	19:53 (WTG 02) 20:00 (WTG 02)	06:21 18:55	06:52 18:55	07:25 18:07	16:34 16:36
28	05:51 20:23	19:54 (WTG 02) 19:59 (WTG 02)	06:22 18:54	06:53 18:54	07:26 18:06	16:34 16:36
29	05:52 20:22	19:54 (WTG 02) 19:58 (WTG 02)	06:23 18:53	06:54 18:53	07:27 18:05	16:33 16:37
30	05:53 20:21	19:55 (WTG 02) 19:57 (WTG 02)	06:24 18:52	06:55 18:52	07:28 18:04	16:33 16:38
31	05:54 20:20	19:55 (WTG 02) 19:56 (WTG 02)	06:25 18:51	06:56 18:51	07:29 18:03	16:33 16:39
Ore potenziali eliofanía	460	429	375	345	297	286
Totale, caso peggiore	237		253	827	42	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 141 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (446)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	16:51 (WTG 03) 17:16 (WTG 03)	06:46 19:25	05:59 19:58
2	07:27 16:42	07:13 17:17	06:36 17:52	16:52 (WTG 03) 17:15 (WTG 03)	06:44 19:26	05:58 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	16:53 (WTG 03) 17:13 (WTG 03)	06:42 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	06:32 17:54	16:56 (WTG 03) 17:11 (WTG 03)	06:41 19:28	05:56 20:01
5	07:28 16:45	07:10 17:21	06:31 17:55	07:16 (WTG 05) 17:06 (WTG 03)	06:39 19:30	05:54 20:02
6	07:28 16:46	07:08 17:22	06:29 17:56	07:12 (WTG 05) 07:31 (WTG 05)	06:37 19:31	05:53 20:03
7	07:28 16:47	07:07 17:24	06:28 17:58	06:49 (7) 07:34 (WTG 05)	06:36 19:32	05:52 20:04
8	07:27 16:48	07:06 17:25	06:26 17:59	06:48 (7) 07:35 (WTG 05)	06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	06:24 18:00	06:47 (7) 07:35 (WTG 05)	06:33 19:34	05:49 20:06
10	07:27 16:50	07:04 17:27	06:23 18:01	06:47 (7) 07:37 (WTG 05)	06:31 19:35	05:48 20:07
11	07:27 16:51	07:03 17:29	06:21 18:02	06:47 (7) 07:37 (WTG 05)	06:29 19:36	05:47 20:08
12	07:27 16:52	07:01 17:30	06:19 18:03	06:49 (7) 07:37 (WTG 05)	06:28 19:37	05:46 20:09
13	07:26 16:53	07:00 17:31	06:18 17:09 (WTG 03)	07:04 (WTG 05) 07:37 (WTG 05)	06:26 19:38	05:45 20:10
14	07:26 16:54	06:59 17:32	06:16 17:09 (WTG 03)	07:03 (WTG 05) 07:37 (WTG 05)	06:24 19:39	05:44 20:11
15	07:26 16:55	06:57 17:34	06:15 17:11 (WTG 03)	07:02 (WTG 05) 07:36 (WTG 05)	06:23 19:40	05:43 20:12
16	07:25 16:56	06:56 17:35	06:13 17:13 (WTG 03)	07:03 (WTG 05) 07:37 (WTG 05)	06:21 19:41	05:42 20:13
17	07:25 16:58	06:55 17:36	06:11 17:13 (WTG 03)	07:02 (WTG 05) 07:36 (WTG 05)	06:20 19:43	05:41 20:14
18	07:24 16:59	06:53 17:37	06:09 17:15 (WTG 03)	07:02 (WTG 05) 07:35 (WTG 05)	06:18 19:44	05:40 20:15
19	07:24 17:00	06:52 17:39	06:08 17:16 (WTG 03)	07:02 (WTG 05) 07:34 (WTG 05)	06:17 19:45	05:39 20:16
20	07:23 17:01	06:51 17:40	06:06 17:18 (WTG 03)	07:03 (WTG 05) 07:33 (WTG 05)	06:15 19:46	05:38 20:17
21	07:22 17:02	06:49 17:41	06:04 17:18 (WTG 03)	07:03 (WTG 05) 07:32 (WTG 05)	06:14 19:47	05:37 20:18
22	07:22 17:03	06:48 17:42	06:03 17:20 (WTG 03)	07:04 (WTG 05) 07:30 (WTG 05)	06:12 19:48	05:37 20:19
23	07:21 17:05	06:46 17:43	06:01 17:20 (WTG 03)	07:06 (WTG 05) 07:29 (WTG 05)	06:11 19:49	05:36 20:20
24	07:20 17:06	06:45 17:44	05:59 17:20 (WTG 03)	07:07 (WTG 05) 07:26 (WTG 05)	06:09 19:50	05:35 20:21
25	07:20 17:07	06:43 17:45	05:58 17:20 (WTG 03)	07:09 (WTG 05) 07:22 (WTG 05)	06:08 19:51	05:34 20:22
26	07:19 17:08	06:42 17:47	05:56 17:19 (WTG 03)	06:06 19:52	06:06 20:23	05:34 20:39
27	07:18 17:10	06:40 17:48	05:54 17:18 (WTG 03)	06:05 19:53	06:05 20:24	05:33 20:39
28	07:17 17:11	06:39 17:49	05:53 17:18 (WTG 03)	06:04 19:54	06:04 20:24	05:32 20:39
29	07:16 17:12		06:51 19:22	06:02 19:55	06:02 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23	06:01 19:57	06:01 20:26	05:30 20:39
31	07:15 17:15		06:47 19:24		05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454
Totale, caso peggiore		399	712			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 141 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (446)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre		Ottobre		Novembre	Dicembre	
1	05:30 20:39	05:55 20:19	06:26 19:36		06:57 18:44		07:43 (WTG 05) 08:16 (WTG 05)	06:31 16:57	07:07 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34		06:58 18:43	33	07:27 (7) 08:16 (WTG 05)	06:33 16:56	07:08 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32		06:59 18:41	39	07:25 (7) 08:15 (WTG 05)	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31		07:00 18:39	40	07:24 (7) 08:13 (WTG 05)	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29		07:01 18:38	38	07:24 (7) 08:12 (WTG 05)	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:14	06:31 19:27		07:02 18:36	36	07:24 (7) 08:10 (WTG 05)	06:38 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26		07:03 18:34	33	07:26 (7) 08:08 (WTG 05)	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24		07:04 18:33	24	07:49 (WTG 05) 08:06 (WTG 05)	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22		07:05 18:31	17	07:53 (WTG 05) 17:44 (WTG 03)	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21		07:06 18:30	20	17:29 (WTG 03) 17:47 (WTG 03)	06:42 16:47	07:16 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19		07:07 18:28	18	17:27 (WTG 03) 17:48 (WTG 03)	06:44 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17		07:08 18:26	21	17:25 (WTG 03) 17:49 (WTG 03)	06:45 16:45	07:17 16:31
13	05:38 20:34	06:07 20:04	06:38 19:15		07:10 18:25	24	17:24 (WTG 03) 17:50 (WTG 03)	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14		07:11 18:23	26	17:22 (WTG 03) 17:50 (WTG 03)	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12		07:12 18:22	28	17:21 (WTG 03) 17:51 (WTG 03)	06:48 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10		07:13 18:20	30	17:21 (WTG 03) 17:52 (WTG 03)	06:50 16:41	07:20 16:32
17	05:41 20:33	06:11 19:59	06:42 19:09		07:14 18:18	31	17:21 (WTG 03) 17:52 (WTG 03)	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	12	07:15 08:10 (WTG 05)	31	17:20 (WTG 03) 17:51 (WTG 03)	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	18	07:16 08:13 (WTG 05)	31	17:20 (WTG 03) 17:51 (WTG 03)	06:53 16:39	07:22 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	21	07:17 08:14 (WTG 05)	31	17:19 (WTG 03) 17:50 (WTG 03)	06:54 16:38	07:23 16:33
21	05:44 20:30	06:15 19:53	06:46 19:02	25	07:19 08:16 (WTG 05)	31	17:19 (WTG 03) 17:49 (WTG 03)	06:56 16:37	07:23 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	28	07:20 08:17 (WTG 05)	28	17:20 (WTG 03) 17:48 (WTG 03)	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	29	07:21 08:17 (WTG 05)	28	17:21 (WTG 03) 17:46 (WTG 03)	06:58 16:36	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	31	07:22 08:18 (WTG 05)	25	17:21 (WTG 03) 17:44 (WTG 03)	06:59 16:36	07:25 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	32	07:23 08:18 (WTG 05)	22	16:21 (WTG 03) 16:43 (WTG 03)	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	33	07:24 08:18 (WTG 05)	19	16:23 (WTG 03) 16:42 (WTG 03)	07:01 16:34	07:26 16:37
27	05:50 20:24	06:21 19:44	06:52 18:51	34	07:26 08:18 (WTG 05)	16	16:24 (WTG 03) 16:40 (WTG 03)	07:02 16:34	07:26 16:37
28	05:51 20:23	06:22 19:42	06:54 18:50	34	07:27 08:18 (WTG 05)	13	16:26 (WTG 03) 16:39 (WTG 03)	07:04 16:34	07:26 16:38
29	05:52 20:22	06:23 19:41	06:55 18:48	35	07:28 08:18 (WTG 05)	8	16:29 (WTG 03) 16:37 (WTG 03)	07:05 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	34	07:29 08:17 (WTG 05)			07:06 16:33	07:27 16:39
31	05:54 20:20	06:25 19:37			06:30 16:58				07:27 16:40
Ore potenziali eliofanìa	460	429	375		345			297	286
Totale, caso peggiore			366		766				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 142 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (447)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:08 (7) 06:46	07:17 (8) 05:59	19:29 (WTG 02) 05:30
2	07:27 16:42	07:13 17:17	06:36 17:52	08:07 (WTG 05) 06:44	07:25 (8) 19:58	19:35 (WTG 02) 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	07:32 (WTG 05) 06:42	05:57 19:59	19:29 (WTG 02) 05:30
4	07:28 16:44	07:11 17:20	06:32 17:54	08:06 (WTG 05) 06:41	05:57 20:00	19:36 (WTG 02) 05:29
5	07:28 16:45	07:10 17:21	06:31 17:55	07:31 (WTG 05) 06:39	05:56 20:01	19:27 (WTG 02) 05:28
6	07:28 16:46	07:08 17:22	06:29 17:56	08:05 (WTG 05) 06:37	05:54 20:02	19:27 (WTG 02) 05:28
7	07:28 16:47	07:07 17:23	06:28 17:57	08:04 (WTG 05) 06:36	05:53 20:03	19:27 (WTG 02) 05:28
8	07:27 16:48	07:06 17:24	06:26 17:58	07:34 (WTG 05) 06:34	05:52 20:04	19:28 (WTG 02) 05:28
9	07:27 16:49	07:05 17:25	06:24 17:59	08:01 (WTG 05) 06:33	05:51 20:05	19:27 (WTG 02) 05:27
10	07:27 16:50	07:04 17:26	06:23 18:00	07:35 (WTG 05) 06:31	05:49 20:06	19:41 (WTG 02) 05:27
11	07:27 16:51	07:03 17:27	06:21 18:01	07:37 (WTG 05) 06:31	05:48 20:07	19:28 (WTG 02) 05:27
12	07:27 16:52	07:01 17:28	06:19 18:02	07:39 (WTG 05) 06:29	05:47 20:08	19:29 (WTG 02) 05:27
13	07:26 16:53	07:00 17:29	06:18 18:03	07:43 (WTG 05) 06:28	05:46 20:09	19:30 (WTG 02) 05:27
14	07:26 16:54	06:59 17:30	06:16 18:04	07:49 (WTG 05) 06:26	05:45 20:10	19:31 (WTG 02) 05:27
15	07:26 16:55	06:57 17:31	06:15 18:05	07:05 (WTG 05) 06:24	05:44 20:11	19:44 (WTG 02) 05:27
16	07:25 16:56	06:56 17:32	06:13 18:06	07:06 (WTG 05) 06:23	05:43 20:12	19:42 (WTG 02) 05:27
17	07:25 16:57	06:55 17:33	06:11 18:07	07:07 (WTG 05) 06:22	05:42 20:13	19:44 (WTG 02) 05:27
18	07:24 16:58	06:54 17:34	06:09 18:08	07:08 (WTG 05) 06:20	05:41 20:14	19:44 (WTG 02) 05:27
19	07:24 16:59	06:52 17:35	06:08 18:09	07:09 (WTG 05) 06:19	05:40 20:15	19:44 (WTG 02) 05:27
20	07:23 17:00	06:51 17:36	06:06 18:10	07:10 (7) 06:17	05:39 20:16	19:44 (WTG 02) 05:27
21	07:22 17:01	06:50 17:37	06:04 18:11	07:11 (8) 06:16	05:38 20:17	19:44 (WTG 02) 05:27
22	07:22 17:02	06:49 17:38	06:03 18:12	07:12 (8) 06:15	05:37 20:18	19:44 (WTG 02) 05:27
23	07:21 17:03	06:48 17:39	06:01 18:13	07:13 (8) 06:14	05:36 20:19	19:44 (WTG 02) 05:27
24	07:20 17:04	06:47 17:40	06:00 18:14	07:14 (8) 06:13	05:35 20:20	19:44 (WTG 02) 05:27
25	07:20 17:05	06:46 17:41	05:59 18:15	07:15 (8) 06:12	05:34 20:21	19:44 (WTG 02) 05:27
26	07:19 17:06	06:45 17:42	05:58 18:16	07:16 (8) 06:11	05:33 20:22	19:44 (WTG 02) 05:27
27	07:18 17:07	06:44 17:43	05:57 18:17	07:17 (8) 06:10	05:32 20:23	19:44 (WTG 02) 05:27
28	07:17 17:08	06:43 17:44	05:56 18:18	07:18 (8) 06:09	05:31 20:24	19:44 (WTG 02) 05:27
29	07:16 17:09	06:42 17:45	05:55 18:19	07:19 (8) 06:08	05:30 20:25	19:44 (WTG 02) 05:27
30	07:16 17:10	06:41 17:46	05:54 18:20	07:20 (8) 06:07	05:29 20:26	19:44 (WTG 02) 05:27
31	07:15 17:11	06:40 17:47	05:53 18:21	07:21 (8) 06:06	05:28 20:27	19:44 (WTG 02) 05:27
Ore potenziali eliofanìa	296	297	369	399	449	454
Totale, caso peggiore		810	428	12	165	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 142 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (447)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30	05:55	19:40 (WTG 02) 06:26	06:57	06:31	16:07 (WTG 03) 07:07
2	05:31	05:56	19:39 (WTG 02) 06:27	06:58	06:33	16:07 (WTG 03) 07:08
3	05:31	05:57	19:39 (WTG 02) 06:28	06:59	06:34	16:09 (WTG 03) 07:09
4	05:32	05:58	19:38 (WTG 02) 06:29	07:00	06:35	16:09 (WTG 03) 07:10
5	05:33	05:59	19:38 (WTG 02) 06:30	07:01	06:36	16:10 (WTG 03) 07:11
6	05:33	06:00	19:37 (WTG 02) 06:31	07:02	06:38	16:12 (WTG 03) 07:12
7	05:34	06:01	19:37 (WTG 02) 06:32	07:03	06:39	16:14 (WTG 03) 07:13
8	05:34	06:02	19:37 (WTG 02) 06:33	07:04	06:40	16:16 (WTG 03) 07:14
9	05:35	06:03	19:37 (WTG 02) 06:34	07:05	06:41	16:16 (WTG 03) 07:15
10	05:36	06:04	19:37 (WTG 02) 06:35	07:06	06:42	16:16 (WTG 03) 07:16
11	05:37	06:05	19:37 (WTG 02) 06:36	07:07	06:44	16:16 (WTG 03) 07:16
12	05:37	06:06	19:38 (WTG 02) 06:37	07:08	06:45	16:17 (WTG 03) 07:17
13	05:38	06:07	19:39 (WTG 02) 06:38	07:09	06:46	16:18 (WTG 03) 07:18
14	05:39	06:08	19:40 (WTG 02) 06:39	07:10	06:47	16:18 (WTG 03) 07:19
15	05:39	06:09	19:41 (WTG 02) 06:40	07:11	06:48	16:19 (WTG 03) 07:20
16	05:40	06:10	19:42 (WTG 02) 06:41	07:12	06:50	16:20 (WTG 03) 07:21
17	05:41	06:11	19:43 (WTG 02) 06:42	07:13	06:51	16:21 (WTG 03) 07:22
18	05:42	06:12	19:44 (WTG 02) 06:43	07:14	06:52	16:22 (WTG 03) 07:23
19	05:43	06:13	19:45 (WTG 02) 06:44	07:15	06:53	16:23 (WTG 03) 07:24
20	05:44	06:14	19:46 (WTG 02) 06:45	07:16	06:54	16:24 (WTG 03) 07:25
21	05:44	06:15	19:47 (WTG 02) 06:46	07:17	06:55	16:25 (WTG 03) 07:26
22	05:45	06:16	19:48 (WTG 02) 06:47	07:18	06:56	16:26 (WTG 03) 07:27
23	05:46	06:17	19:49 (WTG 02) 06:48	07:19	06:57	16:27 (WTG 03) 07:28
24	05:47	06:18	19:50 (WTG 02) 06:49	07:20	06:58	16:28 (WTG 03) 07:29
25	05:48	06:19	19:51 (WTG 02) 06:50	07:21	06:59	16:29 (WTG 03) 07:30
26	05:49	06:20	19:52 (WTG 02) 06:51	07:22	07:00	16:30 (WTG 03) 07:31
27	05:50	06:21	19:53 (WTG 02) 06:52	07:23	07:01	16:31 (WTG 03) 07:32
28	05:51	06:22	19:54 (WTG 02) 06:53	07:24	07:02	16:32 (WTG 03) 07:33
29	05:52	06:23	19:55 (WTG 02) 06:54	07:25	07:03	16:33 (WTG 03) 07:34
30	05:53	06:24	19:56 (WTG 02) 06:55	07:26	07:04	16:34 (WTG 03) 07:35
31	05:54	06:25	19:57 (WTG 02) 06:56	07:27	07:05	16:35 (WTG 03) 07:36
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	30	142	105	1010	149	286

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 143 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (448)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:08 (7) 06:46	07:17 (8) 05:59	19:30 (WTG 02) 05:30
2	07:27 16:42	07:13 17:17	06:36 17:52	07:31 (WTG 05) 06:44	07:25 (8) 05:58	19:35 (WTG 02) 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	07:31 (WTG 05) 06:42	05:57 19:59	19:29 (WTG 02) 05:30
4	07:28 16:44	07:11 17:20	06:32 17:54	07:31 (WTG 05) 06:41	20:00 05:56	19:36 (WTG 02) 20:28
5	07:28 16:45	07:10 17:21	06:31 17:55	07:31 (WTG 05) 06:39	20:02 05:54	19:28 (WTG 02) 05:29
6	07:28 16:46	07:08 17:22	06:29 17:56	07:32 (WTG 05) 06:37	05:53 20:03	19:39 (WTG 02) 20:31
7	07:28 16:47	07:07 17:24	06:28 17:58	07:33 (WTG 05) 06:36	05:52 20:04	19:40 (WTG 02) 05:28
8	07:27 16:48	07:06 17:25	06:26 17:59	07:33 (WTG 05) 06:34	05:51 20:05	19:41 (WTG 02) 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00	07:34 (WTG 05) 06:33	05:49 20:06	19:42 (WTG 02) 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	07:36 (WTG 05) 06:31	05:48 20:07	19:43 (WTG 02) 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	07:38 (WTG 05) 06:29	05:47 20:08	19:44 (WTG 02) 20:34
12	07:27 16:52	07:01 17:30	06:19 18:03	07:42 (WTG 05) 06:28	05:46 20:09	19:30 (WTG 02) 05:27
13	07:26 16:53	07:00 17:31	06:18 18:04	07:49 (WTG 05) 06:26	05:45 20:10	19:45 (WTG 02) 20:35
14	07:26 16:54	06:59 17:32	06:16 18:05	06:24 19:39	05:44 20:11	19:44 (WTG 02) 20:35
15	07:26 16:55	06:57 17:34	06:15 18:07	06:23 19:40	05:43 20:12	19:43 (WTG 02) 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:41	05:42 20:13	19:35 (WTG 02) 05:27
17	07:25 16:58	06:55 17:36	06:11 18:09	06:20 19:43	05:41 20:14	19:40 (WTG 02) 05:27
18	07:24 16:59	06:53 17:37	06:09 18:10	06:18 19:44	05:40 20:15	19:33 (WTG 02) 05:27
19	07:24 17:00	06:52 17:39	06:08 18:11	06:17 19:45	05:39 20:16	19:40 (WTG 02) 05:27
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	19:33 (WTG 02) 05:27
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:37 20:18	19:33 (WTG 02) 05:27
22	07:22 17:03	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	19:33 (WTG 02) 05:27
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	19:33 (WTG 02) 05:28
24	07:20 17:06	06:45 17:45	05:59 18:17	06:09 19:50	05:35 20:21	19:33 (WTG 02) 05:28
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	19:33 (WTG 02) 05:28
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	19:33 (WTG 02) 05:28
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	19:33 (WTG 02) 05:29
28	07:17 17:11	06:39 17:49	05:53 18:21	06:04 19:54	05:32 20:24	19:33 (WTG 02) 05:29
29	07:16 17:12		06:51 19:22	06:02 19:55	19:31 (WTG 02) 05:32	19:44 (WTG 02) 05:30
30	07:16 17:13		06:49 19:23	06:01 19:57	19:32 (WTG 02) 05:31	19:44 (WTG 02) 05:30
31	07:15 17:15		06:47 19:24	06:00 19:57	19:33 (WTG 02) 05:31	19:44 (WTG 02) 05:30
Ore potenziali eliofanìa	296	297	369	399	449	454
Totale, caso peggiore		801	428	12	166	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 143 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (448)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30	05:55	19:40 (WTG 02) 06:26	06:57	06:31	16:07 (WTG 03) 07:07
	20:39	20:19	15 19:55 (WTG 02) 19:36	18:44	16:57	26 16:33 (WTG 03) 16:32
2	05:31	05:56	19:39 (WTG 02) 06:27	06:58	06:33	16:07 (WTG 03) 07:08
	20:39	20:18	15 19:54 (WTG 02) 19:34	18:43	16:56	25 16:32 (WTG 03) 16:32
3	05:31	05:57	19:39 (WTG 02) 06:28	06:59	06:34	16:08 (WTG 03) 07:09
	20:38	20:17	14 19:53 (WTG 02) 19:32	18:41	16:55	23 16:31 (WTG 03) 16:32
4	05:32	05:58	19:38 (WTG 02) 06:29	07:00	06:35	16:09 (WTG 03) 07:10
	20:38	20:16	14 19:52 (WTG 02) 19:31	18:39	16:54	21 16:30 (WTG 03) 16:32
5	05:33	05:59	19:38 (WTG 02) 06:30	07:01	06:36	16:09 (WTG 03) 07:11
	20:38	20:15	13 19:51 (WTG 02) 19:29	18:38	16:52	19 16:28 (WTG 03) 16:31
6	05:33	06:00	19:38 (WTG 02) 06:31	07:02	06:38	16:11 (WTG 03) 07:12
	20:38	20:14	12 19:50 (WTG 02) 19:27	18:36	16:51	17 16:28 (WTG 03) 16:31
7	05:34	06:01	19:37 (WTG 02) 06:32	07:03	06:39	16:13 (WTG 03) 07:13
	20:37	20:12	12 19:49 (WTG 02) 19:26	18:34	16:50	13 16:26 (WTG 03) 16:31
8	05:34	06:02	19:37 (WTG 02) 06:33	07:04	06:40	16:15 (WTG 03) 07:14
	20:37	20:11	11 19:48 (WTG 02) 19:24	18:33	16:49	10 16:25 (WTG 03) 16:31
9	05:35	06:03	19:37 (WTG 02) 06:34	07:05	06:41	16:15 (WTG 03) 07:15
	20:37	20:10	10 19:47 (WTG 02) 19:22	18:31	16:48	16:31
10	05:36	06:04	19:38 (WTG 02) 06:35	07:06	06:42	16:16 (WTG 03) 07:16
	20:36	20:08	8 19:46 (WTG 02) 19:21	18:30	16:47	16:31
11	05:37	06:05	19:38 (WTG 02) 06:36	07:10 (8) 07:07	06:44	16:16 (WTG 03) 07:16
	20:36	20:07	6 19:44 (WTG 02) 19:19	8 07:18 (8) 18:28	35 08:40 (WTG 05) 16:46	16:31
12	05:37	06:06	19:38 (WTG 02) 06:37	07:08 (8) 07:08	07:43 (7) 06:45	16:17 (WTG 03) 07:17
	20:35	20:06	5 19:43 (WTG 02) 19:17	11 07:19 (8) 18:26	38 08:40 (WTG 05) 16:45	16:31
13	05:38	06:07	19:39 (WTG 02) 06:38	07:07 (8) 07:10	07:40 (7) 06:46	16:18 (WTG 03) 07:18
	20:35	20:04	3 19:42 (WTG 02) 19:15	13 07:20 (8) 18:25	43 08:39 (WTG 05) 16:44	16:31
14	05:39	06:08	19:40 (WTG 02) 06:39	07:06 (8) 07:11	07:39 (7) 06:47	16:19 (WTG 03) 07:19
	20:34	20:03	1 19:41 (WTG 02) 19:14	14 07:20 (8) 18:23	44 08:39 (WTG 05) 16:43	16:32
15	05:39	06:09	06:40	07:06 (8) 07:12	07:39 (7) 06:48	16:20 (WTG 03) 07:20
	20:34	20:02	19:12	14 07:20 (8) 18:22	43 08:38 (WTG 05) 16:42	16:32
16	05:40	06:10	06:41	07:05 (8) 07:13	07:40 (7) 06:50	16:20 (WTG 03) 07:20
	20:33	20:00	19:10	14 07:19 (8) 18:20	43 08:39 (WTG 05) 16:41	16:32
17	05:41	06:11	06:42	07:06 (8) 07:14	07:40 (7) 06:51	16:21 (WTG 03) 07:21
	20:33	19:59	19:09	13 07:19 (8) 18:18	40 08:38 (WTG 05) 16:40	16:32
18	05:42	06:12	06:43	07:06 (8) 07:15	07:42 (7) 06:52	16:22 (WTG 03) 07:22
	20:32	19:57	19:07	11 07:17 (8) 18:17	35 08:37 (WTG 05) 16:40	16:33
19	05:43	06:13	06:44	07:08 (8) 07:16	08:06 (WTG 05) 06:53	16:22 (WTG 03) 07:22
	20:31	19:56	19:05	7 07:15 (8) 18:15	37 17:26 (WTG 03) 16:39	16:33
20	05:44	06:14	06:45	07:17	08:07 (WTG 05) 06:54	16:23 (WTG 03) 07:23
	20:30	19:54	19:03	18:14	42 17:29 (WTG 03) 16:38	16:33
21	05:44	06:15	06:46	07:19	08:08 (WTG 05) 06:56	16:23 (WTG 03) 07:23
	20:30	19:53	19:02	18:12	42 17:30 (WTG 03) 16:37	16:34
22	05:45	06:16	06:47	07:20	08:10 (WTG 05) 06:57	16:24 (WTG 03) 07:24
	20:29	19:51	19:00	18:11	43 17:33 (WTG 03) 16:37	16:34
23	05:46	06:17	06:48	07:21	08:12 (WTG 05) 06:58	16:24 (WTG 03) 07:24
	20:28	19:50	18:58	18:09	41 17:33 (WTG 03) 16:36	16:35
24	05:47	06:18	06:49	07:22	08:15 (WTG 05) 06:59	16:25 (WTG 03) 07:25
	20:27	19:48	18:56	18:08	36 17:34 (WTG 03) 16:36	16:35
25	05:48	06:19	06:50	06:23	16:07 (WTG 03) 07:00	16:25 (WTG 03) 07:25
	20:26	19:47	18:55	17:07	27 16:34 (WTG 03) 16:35	16:36
26	05:49	06:20	06:51	06:24	16:07 (WTG 03) 07:01	16:26 (WTG 03) 07:26
	20:25	19:45	18:53	17:05	28 16:35 (WTG 03) 16:34	16:37
27	05:50	06:21	06:52	06:26	16:07 (WTG 03) 07:02	16:26 (WTG 03) 07:26
	20:24	19:44	18:51	17:04	28 16:35 (WTG 03) 16:34	16:37
28	05:51	06:22	06:54	06:27	16:06 (WTG 03) 07:04	16:26 (WTG 03) 07:26
	20:23	19:42	18:50	17:02	29 16:35 (WTG 03) 16:33	16:38
29	05:52	06:23	06:55	06:28	16:06 (WTG 03) 07:05	16:27 (WTG 03) 07:27
	20:22	19:52 (WTG 02) 19:41	18:48	17:01	29 16:35 (WTG 03) 16:33	16:39
30	05:53	19:43 (WTG 02) 06:24	06:56	06:29	16:07 (WTG 03) 07:06	16:27 (WTG 03) 07:27
	20:21	19:54 (WTG 02) 19:39	18:46	17:00	28 16:35 (WTG 03) 16:33	16:39
31	05:54	19:41 (WTG 02) 06:25		06:30	16:07 (WTG 03)	16:27 (WTG 03) 07:27
	20:20	19:55 (WTG 02) 19:37		16:58	28 16:35 (WTG 03)	16:40
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore	32	139	105	997	154	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 144 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (449)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:51	07:05 (7) 06:46	05:59 19:58	19:31 (WTG 02) 05:30
2	07:27 16:42	07:13 17:17	06:36 17:52	07:08 (7) 06:44	05:58 19:59	4 19:35 (WTG 02) 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	07:28 (WTG 05) 06:42	05:57 19:59	5 19:31 (WTG 02) 05:30
4	07:28 16:44	07:11 17:20	06:32 17:54	08:02 (WTG 05) 19:27	20:00 05:56	7 19:36 (WTG 02) 20:29
5	07:28 16:45	07:10 17:21	06:31 17:55	07:28 (WTG 05) 19:30	20:01 05:54	8 19:37 (WTG 02) 20:30
6	07:28 16:46	07:08 17:22	06:29 17:56	08:02 (WTG 05) 19:31	20:02 05:53	10 19:29 (WTG 02) 05:28
7	07:28 16:47	07:07 17:23	06:28 17:57	07:30 (WTG 05) 19:32	20:03 05:52	11 19:40 (WTG 02) 20:31
8	07:27 16:48	07:06 17:24	06:26 17:58	08:00 (WTG 05) 19:33	20:04 05:51	12 19:29 (WTG 02) 05:28
9	07:27 16:49	07:05 17:25	06:24 17:59	07:30 (WTG 05) 19:34	20:05 05:49	13 19:41 (WTG 02) 20:32
10	07:27 16:50	07:04 17:26	06:23 18:00	07:31 (WTG 05) 19:35	20:06 05:48	13 19:42 (WTG 02) 20:33
11	07:27 16:51	07:03 17:27	06:21 18:01	07:33 (WTG 05) 19:36	20:07 05:47	14 19:29 (WTG 02) 05:27
12	07:27 16:52	07:01 17:28	06:19 18:02	07:34 (WTG 05) 19:37	20:08 05:46	14 19:44 (WTG 02) 20:34
13	07:26 16:53	07:00 17:29	06:18 18:03	07:36 (WTG 05) 19:38	20:09 05:45	15 19:30 (WTG 02) 05:27
14	07:26 16:54	06:59 17:30	06:16 18:04	07:49 (WTG 05) 19:39	20:10 05:44	15 19:46 (WTG 02) 20:35
15	07:26 16:55	06:57 17:31	06:15 18:05	19:39 06:23	20:11 05:43	14 19:46 (WTG 02) 20:36
16	07:25 16:56	06:56 17:32	06:13 18:06	19:40 06:22	20:12 05:42	10 19:34 (WTG 02) 05:27
17	07:25 16:57	06:55 17:33	06:11 18:07	19:41 06:21	20:13 05:41	5 19:44 (WTG 02) 05:27
18	07:24 16:58	06:53 17:34	06:09 18:08	19:42 06:20	20:14 05:40	20:37 05:27
19	07:24 17:00	06:52 17:35	06:08 18:09	19:43 06:19	20:15 05:39	20:37 05:27
20	07:23 17:01	06:51 17:36	06:06 18:10	19:44 06:18	20:16 05:38	20:37 05:27
21	07:22 17:02	06:50 17:37	06:04 18:11	19:45 06:17	20:17 05:37	20:38 05:27
22	07:22 17:03	06:48 17:38	06:03 18:12	19:46 06:16	20:18 05:36	20:38 05:28
23	07:21 17:05	06:46 17:39	06:01 18:13	19:47 06:15	20:19 05:35	20:38 05:28
24	07:20 17:06	06:45 17:40	05:59 18:14	19:48 06:14	20:20 05:34	20:38 05:28
25	07:20 17:07	06:43 17:41	05:57 18:15	19:49 06:13	20:21 05:33	20:39 05:28
26	07:19 17:08	06:42 17:42	05:56 18:16	19:50 06:12	20:22 05:32	20:39 05:28
27	07:18 17:10	06:40 17:43	05:54 18:17	19:51 06:11	20:23 05:31	20:39 05:29
28	07:17 17:11	06:39 17:44	05:53 18:18	19:52 06:10	20:24 05:30	20:39 05:29
29	07:16 17:12	06:38 17:45	05:52 18:19	19:53 06:09	20:25 05:29	20:39 05:30
30	07:16 17:13	06:37 17:46	05:51 18:20	19:54 06:08	20:26 05:28	20:39 05:30
31	07:15 17:15	06:36 17:47	05:50 18:21	19:55 06:07	20:27 05:27	20:39 05:30
Ore potenziali eliofanìa	296	297	369	399	449	454
Totale, caso peggiore		772	349	1	170	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 144 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (449)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:30 20:39	05:55 20:19	14 19:41 (WTG 02)	06:26 19:36	06:57 18:44	8 08:18 (WTG 05)	06:31 16:57	27 16:06 (WTG 03)	07:07 16:32
2	05:31 20:39	05:56 20:18	14 19:40 (WTG 02)	06:27 19:34	06:58 18:43	16 08:14 (WTG 05)	06:33 16:56	26 16:06 (WTG 03)	07:08 16:32
3	05:31 20:38	05:57 20:17	14 19:54 (WTG 02)	06:28 19:32	06:59 18:41	16 08:30 (WTG 05)	06:34 16:55	26 16:08 (WTG 03)	07:09 16:32
4	05:32 20:38	05:58 20:16	14 19:53 (WTG 02)	06:29 19:31	07:00 18:39	21 08:32 (WTG 05)	06:35 16:54	23 16:31 (WTG 03)	07:10 16:32
5	05:33 20:38	05:59 20:15	13 19:52 (WTG 02)	06:30 19:29	07:01 18:38	24 08:33 (WTG 05)	06:36 16:52	22 16:30 (WTG 03)	07:11 16:31
6	05:33 20:38	06:00 20:14	12 19:51 (WTG 02)	06:31 19:27	07:02 18:36	27 08:34 (WTG 05)	06:38 16:51	19 16:28 (WTG 03)	07:12 16:31
7	05:34 20:37	06:01 20:12	11 19:50 (WTG 02)	06:32 19:26	07:03 18:34	29 08:35 (WTG 05)	06:39 16:50	17 16:28 (WTG 03)	07:13 16:31
8	05:34 20:37	06:02 20:11	10 19:49 (WTG 02)	06:33 19:24	07:04 18:33	31 08:36 (WTG 05)	06:40 16:49	14 16:26 (WTG 03)	07:14 16:31
9	05:35 20:37	06:03 20:10	9 19:39 (WTG 02)	06:34 19:22	07:05 18:31	32 08:04 (WTG 05)	06:41 16:48	11 16:25 (WTG 03)	07:15 16:31
10	05:36 20:36	06:04 20:08	8 19:47 (WTG 02)	06:35 19:21	07:06 18:30	33 08:37 (WTG 05)	06:42 16:47	7 16:24 (WTG 03)	07:16 16:31
11	05:37 20:36	06:05 20:07	7 19:46 (WTG 02)	06:36 19:19	07:07 18:28	34 08:03 (WTG 05)	06:44 16:46	7 16:24 (WTG 03)	07:16 16:31
12	05:37 20:35	06:06 20:06	4 19:44 (WTG 02)	06:37 19:17	07:08 18:26	35 08:37 (WTG 05)	06:45 16:45	7 16:24 (WTG 03)	07:17 16:31
13	05:38 20:35	06:07 20:04	3 19:43 (WTG 02)	06:38 19:15	07:10 18:25	41 08:37 (WTG 05)	06:46 16:44	41 08:37 (WTG 05)	07:18 16:31
14	05:39 20:34	06:08 20:03	1 19:42 (WTG 02)	06:39 19:14	07:11 18:23	43 08:36 (WTG 05)	06:47 16:43	43 08:36 (WTG 05)	07:19 16:32
15	05:39 20:34	06:09 20:02		06:40 19:12	07:12 18:22	43 08:36 (WTG 05)	06:48 16:42	43 08:36 (WTG 05)	07:20 16:32
16	05:40 20:33	06:10 20:00		06:41 19:10	07:13 18:20	42 08:35 (WTG 05)	06:50 16:41	42 08:35 (WTG 05)	07:20 16:32
17	05:41 20:33	06:11 19:59		06:42 19:09	07:14 18:18	40 08:35 (WTG 05)	06:51 16:40	40 08:35 (WTG 05)	07:21 16:32
18	05:42 20:32	06:12 19:57		06:43 19:07	07:15 18:17	36 08:34 (WTG 05)	06:52 16:40	36 08:34 (WTG 05)	07:22 16:33
19	05:43 20:31	06:13 19:56		06:44 19:05	07:16 18:15	30 08:33 (WTG 05)	06:53 16:39	30 08:33 (WTG 05)	07:22 16:33
20	05:44 20:30	06:14 19:54		06:45 19:03	07:17 18:14	35 17:25 (WTG 03)	06:54 16:38	35 17:25 (WTG 03)	07:23 16:33
21	05:44 20:30	06:15 19:53		06:46 19:02	07:19 18:12	40 08:05 (WTG 05)	06:56 16:37	40 08:05 (WTG 05)	07:23 16:34
22	05:45 20:29	06:16 19:51		06:47 19:00	07:20 18:11	40 08:06 (WTG 05)	06:57 16:37	40 08:06 (WTG 05)	07:24 16:34
23	05:46 20:28	06:17 19:50		06:48 18:58	07:21 18:09	39 17:32 (WTG 03)	06:58 16:36	39 17:32 (WTG 03)	07:24 16:35
24	05:47 20:27	06:18 19:48		06:49 18:56	07:22 18:08	35 17:33 (WTG 03)	06:59 16:36	35 17:33 (WTG 03)	07:25 16:35
25	05:48 20:26	06:19 19:47		06:50 18:55	07:23 18:07	26 17:34 (WTG 03)	07:00 16:35	26 17:34 (WTG 03)	07:25 16:36
26	05:49 20:25	06:20 19:45		06:51 18:53	07:24 18:06	27 16:07 (WTG 03)	07:01 16:34	27 16:07 (WTG 03)	07:26 16:37
27	05:50 20:24	06:21 19:44		06:52 18:51	07:25 18:05	28 16:35 (WTG 03)	07:02 16:34	28 16:35 (WTG 03)	07:26 16:37
28	05:51 20:23	06:22 19:42	8 19:45 (WTG 02)	06:54 18:50	07:26 18:04	29 16:06 (WTG 03)	07:04 16:33	29 16:06 (WTG 03)	07:26 16:38
29	05:52 20:22	06:23 19:41	11 19:55 (WTG 02)	06:55 18:48	07:27 18:03	29 16:35 (WTG 03)	07:05 16:33	29 16:35 (WTG 03)	07:27 16:39
30	05:53 20:21	06:24 19:40	15 19:42 (WTG 02)	06:56 18:46	07:28 18:02	29 16:06 (WTG 03)	07:06 16:33	29 16:06 (WTG 03)	07:27 16:39
31	05:54 20:20	06:25 19:37	15 19:41 (WTG 02)	06:57 18:45	07:29 18:01	29 16:35 (WTG 03)	07:07 16:33	29 16:35 (WTG 03)	07:27 16:40
Ore potenziali eliofanía	460	429		375	345		297		286
Totale, caso peggiore	49	120		980	166				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 145 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (450)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	08:32 (WTG 05) 08:44 (WTG 05)	06:37 17:51	08:28 (WTG 05) 19:25	05:59 19:58
2	07:27 16:42	07:13 17:17	08:29 (WTG 05) 08:47 (WTG 05)	06:36 17:52	08:43 (WTG 05) 19:26	19:57 20:28
3	07:28 16:43	07:12 17:18	08:27 (WTG 05) 08:50 (WTG 05)	06:34 17:53	06:42 19:27	05:57 20:00
4	07:28 16:44	07:11 17:20	08:26 (WTG 05) 08:52 (WTG 05)	06:32 17:54	06:41 19:28	05:56 20:01
5	07:28 16:45	07:10 17:21	08:24 (WTG 05) 08:53 (WTG 05)	06:31 17:55	06:39 19:30	05:54 20:02
6	07:28 16:46	07:08 17:22	08:22 (WTG 05) 16:55 (WTG 03)	06:29 17:56	06:37 19:31	05:53 20:03
7	07:27 16:47	07:07 17:24	08:22 (WTG 05) 16:58 (WTG 03)	06:28 17:58	06:36 19:32	05:52 20:04
8	07:27 16:48	07:06 17:25	08:21 (WTG 05) 16:59 (WTG 03)	06:26 17:59	06:34 19:33	05:51 20:05
9	07:27 16:49	07:05 17:26	08:20 (WTG 05) 17:01 (WTG 03)	06:24 18:00	06:33 19:34	05:49 20:06
10	07:27 16:50	07:04 17:27	08:20 (WTG 05) 17:02 (WTG 03)	06:23 18:01	06:31 19:35	05:48 20:07
11	07:27 16:51	07:03 17:29	08:19 (WTG 05) 17:02 (WTG 03)	06:21 18:02	06:29 19:36	05:47 20:08
12	07:27 16:52	07:01 17:30	08:19 (WTG 05) 17:02 (WTG 03)	06:19 18:03	06:28 19:37	05:46 20:09
13	07:26 16:53	07:00 17:31	08:19 (WTG 05) 17:03 (WTG 03)	06:18 18:04	06:26 19:38	05:45 20:10
14	07:26 16:54	06:59 17:32	08:18 (WTG 05) 17:02 (WTG 03)	06:16 18:05	06:24 19:39	05:44 20:11
15	07:26 16:55	06:57 17:34	08:18 (WTG 05) 17:03 (WTG 03)	06:14 18:07	06:23 19:40	05:43 20:12
16	07:25 16:56	06:56 17:35	08:18 (WTG 05) 17:03 (WTG 03)	06:13 18:08	06:21 19:41	05:42 20:13
17	07:25 16:58	06:55 17:36	08:18 (WTG 05) 17:02 (WTG 03)	06:11 18:09	06:20 19:43	05:41 20:14
18	07:24 16:59	06:53 17:37	08:18 (WTG 05) 17:02 (WTG 03)	06:09 18:10	06:18 19:44	05:40 20:15
19	07:24 17:00	06:52 17:39	08:18 (WTG 05) 17:00 (WTG 03)	06:08 18:11	06:17 (8) 19:45	05:39 20:16
20	07:23 17:01	06:51 17:40	08:18 (WTG 05) 16:59 (WTG 03)	06:06 18:12	06:39 (8) 19:46	05:38 20:17
21	07:22 17:02	06:49 17:41	08:18 (WTG 05) 16:57 (WTG 03)	06:04 18:13	06:37 (8) 19:47	05:37 20:18
22	07:22 17:03	06:48 17:42	08:19 (WTG 05) 16:54 (WTG 03)	06:03 18:14	06:36 (8) 19:48	05:37 20:19
23	07:21 17:05	06:46 17:43	08:20 (WTG 05) 08:56 (WTG 05)	06:01 18:15	06:36 (8) 19:49	05:36 20:20
24	07:20 17:06	06:45 17:45	08:20 (WTG 05) 08:54 (WTG 05)	05:59 18:16	06:35 (8) 19:50	05:35 20:21
25	07:20 17:07	06:43 17:46	08:21 (WTG 05) 08:52 (WTG 05)	05:58 18:18	06:35 (8) 19:51	05:34 20:22
26	07:19 17:08	06:42 17:47	08:22 (WTG 05) 08:51 (WTG 05)	05:56 18:19	06:36 (8) 19:52	05:34 20:23
27	07:18 17:10	06:40 17:48	08:23 (WTG 05) 08:48 (WTG 05)	05:54 18:20	06:36 (8) 19:53	05:33 20:24
28	07:17 17:11	06:39 17:49	08:26 (WTG 05) 08:46 (WTG 05)	05:53 18:21	06:37 (8) 19:54	05:32 20:24
29	07:16 17:12		06:51 19:22	10	07:40 (8) 19:55	05:32 20:25
30	07:16 17:13		06:49 19:23	3	06:01 19:57	05:31 20:26
31	07:15 17:15		06:47 19:24			05:31 20:27
Ore potenziali eliofanía	296	297	369	399	449	454
Totale, caso peggiore		1263	157	143	10	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 145 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (450)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:49 (WTG 05) 16:32
2	05:31 20:39	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	59 07:49 (WTG 03) 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	56 16:29 (WTG 03) 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	52 07:51 (WTG 05) 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	47 07:52 (WTG 05) 16:32
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:38 16:51	41 16:25 (WTG 03) 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	29 07:54 (WTG 05) 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	25 08:21 (WTG 05) 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	22 07:57 (WTG 05) 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47	18 08:19 (WTG 05) 16:31
11	05:36 20:36	06:05 20:07	19:29 (WTG 02) 19:19	07:07 18:28	06:44 16:46	11 08:14 (WTG 05) 16:31
12	05:37 20:35	06:06 20:06	19:34 (WTG 02) 19:17	07:08 18:26	06:45 16:45	09:05 (WTG 05) 16:45
13	05:38 20:35	06:07 20:04	19:37 (WTG 02) 19:15	07:10 18:25	06:46 16:44	8 09:13 (WTG 05) 16:45
14	05:39 20:34	06:08 20:03	19:25 (WTG 02) 19:14	07:11 18:23	06:47 16:43	18 09:00 (WTG 05) 16:44
15	05:39 20:34	06:09 20:02	19:38 (WTG 02) 19:12	07:12 18:22	06:48 16:42	22 08:58 (WTG 05) 16:43
16	05:40 20:33	06:10 20:00	19:21 (WTG 02) 19:10	07:13 18:20	06:50 16:41	27 09:22 (WTG 05) 16:42
17	05:41 20:33	06:11 19:59	19:39 (WTG 02) 19:09	07:14 18:18	06:51 16:40	30 09:20 (WTG 05) 16:43
18	05:42 20:32	06:12 19:57	19:21 (WTG 02) 19:07	07:15 18:17	06:52 16:39	27 09:22 (WTG 05) 16:42
19	05:43 20:31	06:13 19:56	19:37 (WTG 02) 19:05	07:16 18:15	06:53 16:38	34 09:26 (WTG 05) 16:40
20	05:44 20:30	06:14 19:54	19:20 (WTG 02) 19:03	07:17 18:14	06:54 16:37	37 09:27 (WTG 05) 16:39
21	05:44 20:30	06:15 19:53	19:33 (WTG 02) 19:02	07:18 18:12	06:55 16:37	48 08:55 (WTG 05) 16:38
22	05:45 20:29	06:16 19:51	19:20 (WTG 02) 19:00	07:19 18:11	06:56 16:37	53 17:28 (WTG 03) 16:37
23	05:46 20:28	06:17 19:50	19:21 (WTG 02) 18:58	07:20 18:10	06:57 16:37	57 08:49 (WTG 05) 16:38
24	05:47 20:27	06:18 19:48	19:36 (WTG 02) 18:56	07:21 18:09	06:58 16:36	48 17:26 (WTG 03) 16:38
25	05:48 20:26	06:19 19:47	19:27 (WTG 02) 18:55	07:22 (8) 18:08	06:59 16:35	61 17:31 (WTG 03) 16:36
26	05:49 20:25	06:20 19:45	19:23 (WTG 02) 18:54	07:23 (8) 18:07	06:59 16:35	62 08:48 (WTG 05) 16:35
27	05:50 20:24	06:21 19:44	19:26 (WTG 02) 18:53	07:24 (8) 18:06	07:00 16:35	64 07:47 (WTG 05) 16:35
28	05:51 20:23	06:22 19:42	06:50 18:52	07:25 (8) 18:05	07:01 16:34	64 16:32 (WTG 03) 16:34
29	05:52 20:22	06:23 19:41	06:51 18:51	07:26 (8) 18:04	07:02 16:34	65 16:33 (WTG 03) 16:34
30	05:53 20:21	06:24 19:39	06:52 18:50	07:27 (8) 18:03	07:03 16:33	65 07:47 (WTG 05) 16:33
31	05:54 20:20	06:25 19:37	06:53 18:48	07:28 (8) 18:02	07:04 16:33	65 16:32 (WTG 03) 16:33
Ore potenziali eliofanìa	460	429	375	345	297	286
Totale, caso peggiore		158	139	935	360	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 146 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (451)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	08:57 (WTG 05) 09:44 (WTG 05)	06:37 17:51	06:46 19:25	05:59 19:58	05:30 20:28
2	07:27 16:42	07:13 17:17	08:57 (WTG 05) 09:44 (WTG 05)	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:18	08:57 (WTG 05) 09:44 (WTG 05)	06:34 17:53	06:42 19:27	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	08:58 (WTG 05) 09:44 (WTG 05)	06:32 17:54	06:41 19:28	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	08:57 (WTG 05) 09:43 (WTG 05)	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:30
6	07:28 16:46	07:08 17:22	08:58 (WTG 05) 16:54 (WTG 03)	06:29 17:56	06:37 19:31	05:53 20:03	05:28 20:31
7	07:27 16:47	09:10 (WTG 05) 07:07	08:58 (WTG 05) 17:24	06:28 16:58 (WTG 03)	06:36 19:32	05:52 20:04	05:28 20:32
8	07:27 16:48	7 09:17 (WTG 05) 09:07 (WTG 05)	17:24 07:06	16:58 (WTG 03) 08:59 (WTG 05)	17:57 06:26	19:32 05:51	20:32 05:28
9	07:27 16:49	12 09:19 (WTG 05) 09:05 (WTG 05)	17:25 07:05	17:00 (WTG 03) 09:00 (WTG 05)	17:59 06:24	19:33 05:49	20:32 05:27
10	07:27 16:50	17 09:22 (WTG 05) 09:05 (WTG 05)	07:26 07:04	17:02 (WTG 03) 09:00 (WTG 05)	18:00 06:23	19:34 05:48	20:33 05:27
11	07:27 16:51	19 09:24 (WTG 05) 09:04 (WTG 05)	17:27 07:03	17:03 (WTG 03) 09:00 (WTG 05)	18:01 06:21	19:35 05:47	20:34 05:27
12	07:27 16:52	22 09:26 (WTG 05) 09:02 (WTG 05)	17:29 07:01	17:03 (WTG 03) 09:02 (WTG 05)	18:02 06:19	19:36 06:28	20:34 05:27
13	07:26 16:53	25 09:27 (WTG 05) 09:02 (WTG 05)	17:30 07:00	18:03 09:03 (WTG 05)	18:03 06:18	19:37 06:26	20:35 05:27
14	07:26 16:54	27 09:29 (WTG 05) 09:01 (WTG 05)	17:31 06:59	18:04 09:03 (WTG 05)	8 07:06 (8) 06:55 (8)	19:38 06:24	20:35 05:27
15	07:26 16:55	29 09:30 (WTG 05) 09:01 (WTG 05)	17:32 06:57	18:05 09:05 (WTG 05)	13 07:08 (8) 06:53 (8)	19:39 06:23	20:36 05:27
16	07:25 16:56	31 09:32 (WTG 05) 09:00 (WTG 05)	17:34 06:56	18:07 09:07 (WTG 03)	16 07:09 (8) 06:53 (8)	19:40 06:21	20:36 05:27
17	07:25 16:58	32 09:32 (WTG 05) 09:00 (WTG 05)	17:35 06:55	18:08 09:09 (WTG 05)	17 07:10 (8) 06:52 (8)	19:41 06:20	20:36 05:27
18	07:24 16:59	34 09:34 (WTG 05) 08:59 (WTG 05)	17:36 06:53	18:09 09:13 (WTG 05)	18 07:10 (8) 06:51 (8)	19:43 06:18	20:37 05:27
19	07:24 17:00	36 09:35 (WTG 05) 08:59 (WTG 05)	17:37 06:52	18:10 16:45 (WTG 03)	19 07:10 (8) 06:50 (8)	19:44 06:17	20:37 05:27
20	07:23 17:01	37 09:36 (WTG 05) 08:58 (WTG 05)	17:38 06:51	18:11 16:47 (WTG 03)	19 07:09 (8) 06:51 (8)	19:45 06:15	20:37 05:27
21	07:22 17:02	39 09:37 (WTG 05) 08:58 (WTG 05)	17:40 06:49	18:12 16:49 (WTG 03)	18 07:09 (8) 06:51 (8)	19:46 06:14	20:38 05:27
22	07:22 17:03	40 09:38 (WTG 05) 08:58 (WTG 05)	17:41 06:48	18:13 06:03	17 07:08 (8) 06:51 (8)	19:47 06:12	20:38 05:27
23	07:21 17:05	41 09:39 (WTG 05) 08:58 (WTG 05)	17:42 06:46	18:14 06:01	16 07:07 (8) 06:53 (8)	19:48 06:11	20:38 05:28
24	07:20 17:06	42 09:40 (WTG 05) 08:57 (WTG 05)	17:43 06:45	18:15 05:59	13 07:06 (8) 06:54 (8)	19:49 06:09	20:38 05:28
25	07:20 17:07	43 09:40 (WTG 05) 08:57 (WTG 05)	17:45 06:43	18:16 05:58	9 07:03 (8) 06:08	19:50 05:34	20:39 05:28
26	07:19 17:08	44 09:41 (WTG 05) 08:57 (WTG 05)	17:46 06:40	18:18 05:54	06:08 06:05	05:34 05:33	05:28 05:29
27	07:18 17:10	45 09:42 (WTG 05) 08:57 (WTG 05)	17:47 06:40	18:19 05:54	19:52 06:05	20:23 05:33	20:39 05:29
28	07:17 17:11	46 09:43 (WTG 05) 08:57 (WTG 05)	17:48 06:39	18:20 05:53	19:53 06:03	20:24 05:32	20:39 05:29
29	07:16 17:12	46 09:43 (WTG 05) 08:57 (WTG 05)	17:49 06:39	18:21 05:53	06:03 06:02	20:24 05:32	20:39 05:30
30	07:16 17:13	47 09:44 (WTG 05) 08:57 (WTG 05)	17:49 06:39	18:22 06:49	19:54 19:57	20:24 20:26	20:39 20:39
31	07:15 17:15	47 08:57 (WTG 05) 09:44 (WTG 05)	06:47 19:24	06:47 19:24	05:31 20:27	05:31 20:27	05:30 05:30
Ore potenziali eliofanìa	296	297	369	399	449	454	
Totale, caso peggiore	854	940	183				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 146 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (451)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	08:29 (WTG 05) 16:32 (WTG 03)	07:07 16:32	08:46 (WTG 05) 09:08 (WTG 05)
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	08:28 (WTG 05) 16:31 (WTG 03)	07:08 16:32	08:48 (WTG 05) 09:07 (WTG 05)
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	08:28 (WTG 05) 16:30 (WTG 03)	07:09 16:32	08:49 (WTG 05) 09:06 (WTG 05)
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	08:28 (WTG 05) 16:28 (WTG 03)	07:10 16:32	08:52 (WTG 05) 09:05 (WTG 05)
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	08:27 (WTG 05) 09:13 (WTG 05)	07:11 16:31	08:55 (WTG 05) 09:02 (WTG 05)
6	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:37 16:51	08:28 (WTG 05) 09:14 (WTG 05)	07:12 16:31	
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	08:27 (WTG 05) 09:14 (WTG 05)	07:13 16:31	
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	08:27 (WTG 05) 09:14 (WTG 05)	07:14 16:31	
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	08:28 (WTG 05) 09:15 (WTG 05)	07:15 16:31	
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47	08:28 (WTG 05) 09:15 (WTG 05)	07:16 16:31	
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	08:28 (WTG 05) 09:15 (WTG 05)	07:16 16:31	
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45	08:28 (WTG 05) 09:14 (WTG 05)	07:17 16:31	
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44	08:29 (WTG 05) 09:15 (WTG 05)	07:18 16:31	
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	08:29 (WTG 05) 09:15 (WTG 05)	07:19 16:32	
15	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	06:48 16:42	08:29 (WTG 05) 09:15 (WTG 05)	07:20 16:32	
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	08:30 (WTG 05) 09:15 (WTG 05)	07:20 16:32	
17	05:41 20:33	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	08:31 (WTG 05) 09:15 (WTG 05)	07:21 16:32	
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	08:31 (WTG 05) 09:14 (WTG 05)	07:22 16:33	
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	08:32 (WTG 05) 09:14 (WTG 05)	07:22 16:33	
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38	08:33 (WTG 05) 09:14 (WTG 05)	07:23 16:33	
21	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 17:19 (WTG 03)	08:34 (WTG 05) 17:28 (WTG 03)	07:23 16:34	
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	06:57 17:17 (WTG 03)	08:34 (WTG 05) 17:31 (WTG 03)	07:24 16:34	
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 17:15 (WTG 03)	08:35 (WTG 05) 17:32 (WTG 03)	07:24 16:35	
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	06:59 17:33 (WTG 03)	08:37 (WTG 05) 17:33 (WTG 03)	07:25 16:35	
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	07:00 16:33 (WTG 03)	08:38 (WTG 05) 16:35 (WTG 03)	07:25 16:36	
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 18:06	07:01 16:34 (WTG 03)	08:39 (WTG 05) 16:34 (WTG 03)	07:26 16:37	
27	05:50 20:24	06:21 19:44	06:52 18:51	07:25 18:05	07:02 16:34 (WTG 03)	08:40 (WTG 05) 16:34 (WTG 03)	07:26 16:37	
28	05:51 20:23	06:22 19:42	06:54 18:50	07:26 18:04	07:04 16:34 (WTG 03)	08:41 (WTG 05) 16:33 (WTG 03)	07:26 16:38	
29	05:52 20:22	06:23 19:40	06:55 18:48	07:27 18:03	07:05 16:33 (WTG 03)	08:42 (WTG 05) 16:33 (WTG 03)	07:27 16:39	
30	05:53 20:21	06:24 19:39	06:56 18:46	07:28 18:02	07:06 16:34 (WTG 03)	08:44 (WTG 05) 16:33 (WTG 03)	07:27 16:39	
31	05:54 20:20	06:25 19:37		07:29 18:01	07:07 16:34 (WTG 03)	09:09 (WTG 05)	07:27 16:40	
Ore potenziali eliofanìa	460	429	375	345	297	1290	286	78
Totale, caso peggiore			189	443				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 147 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (452)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	06:37 17:51	07:30 (WTG 06) 19:25	05:59 19:58	05:30 20:28	
2	07:27 16:42	07:13 17:17	06:36 17:52	23 07:53 (WTG 06) 28 07:56 (WTG 06)	19:25 19:26	19:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:18	06:34 17:53	07:25 (WTG 06) 32 07:57 (WTG 06)	06:42 19:27	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	06:32 17:54	07:24 (WTG 06) 35 07:59 (WTG 06)	06:41 19:28	05:56 20:01	05:29 20:30
5	07:28 16:45	07:10 17:21	06:31 17:55	07:22 (WTG 06) 38 08:00 (WTG 06)	06:39 19:30	05:54 20:02	05:28 20:30
6	07:28 16:46	07:08 17:22	06:29 17:56	07:21 (WTG 06) 39 08:00 (WTG 06)	06:37 19:31	05:53 20:03	05:28 20:31
7	07:27 16:47	07:07 17:24	06:28 17:58	07:20 (WTG 06) 42 08:02 (WTG 06)	06:36 19:32	05:52 20:04	05:28 20:32
8	07:27 16:48	07:06 17:25	06:26 17:59	07:19 (WTG 06) 43 08:02 (WTG 06)	06:34 19:33	05:51 20:05	05:28 20:32
9	07:27 16:49	07:05 17:26	06:24 18:00	07:17 (WTG 06) 45 08:02 (WTG 06)	06:33 19:34	05:49 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	06:23 18:01	07:17 (WTG 06) 46 08:03 (WTG 06)	06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:03 17:29	06:21 18:02	07:16 (WTG 06) 46 08:02 (WTG 06)	06:29 19:36	05:47 20:08	05:27 20:34
12	07:27 16:52	07:01 17:30	06:20 18:03	07:15 (WTG 06) 47 08:02 (WTG 06)	06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	06:18 18:04	07:16 (WTG 06) 46 08:02 (WTG 06)	06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	06:16 18:05	07:15 (WTG 06) 47 08:02 (WTG 06)	06:24 19:39	05:44 20:11	05:27 20:36
15	07:26 16:55	06:57 17:34	06:15 18:07	07:14 (WTG 06) 47 08:01 (WTG 06)	06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	06:13 18:08	07:15 (WTG 06) 46 08:01 (WTG 06)	06:21 19:41	05:42 20:13	05:27 20:36
17	07:25 16:58	06:55 17:36	06:11 18:09	07:15 (WTG 06) 45 08:00 (WTG 06)	06:20 19:43	05:41 20:14	05:27 20:37
18	07:24 16:59	06:52 17:37	06:09 18:10	07:14 (WTG 06) 45 07:59 (WTG 06)	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:39	06:08 18:11	07:14 (WTG 06) 44 07:58 (WTG 06)	06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	06:06 18:12	07:15 (WTG 06) 43 07:58 (WTG 06)	06:15 19:46	05:38 20:17	05:27 20:38
21	07:22 17:02	06:49 17:41	06:04 18:13	07:15 (WTG 06) 41 07:56 (WTG 06)	06:14 19:47	05:37 20:18	05:27 20:38
22	07:22 17:04	06:48 17:42	06:03 18:14	07:16 (WTG 06) 38 07:54 (WTG 06)	06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	06:01 18:15	07:17 (WTG 06) 37 07:54 (WTG 06)	06:11 19:49	05:36 20:20	05:28 20:38
24	07:20 17:06	06:45 17:43	05:59 18:17	07:18 (WTG 06) 34 07:52 (WTG 06)	06:09 19:50	05:35 20:21	05:28 20:39
25	07:20 17:07	06:43 17:46	05:58 18:18	07:19 (WTG 06) 30 07:49 (WTG 06)	06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	05:56 18:19	07:21 (WTG 06) 27 07:48 (WTG 06)	06:06 19:52	05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	05:54 18:20	07:22 (WTG 06) 23 07:45 (WTG 06)	06:05 19:53	05:33 20:24	05:29 20:39
28	07:17 17:11	06:39 17:49	05:53 18:21	07:25 (WTG 06) 16 07:41 (WTG 06)	06:04 19:54	05:32 20:24	05:29 20:39
29	07:16 17:12		06:51 19:22		06:02 19:55	05:32 20:25	05:30 20:39
30	07:16 17:13		06:49 19:23		06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 17:15		06:47 19:24			05:31 20:27	
Ore potenziali eliofania	296	297	369	399	449	454	112
Totale, caso peggiore			23	1073			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 147 - Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (452)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 20:39	05:53 (7) 20:19	05:55 19:36	06:26 18:45	06:57 18:45	07:07 16:57
2	05:31 20:38	05:54 (7) 20:18	05:56 19:34	06:27 18:43	06:58 18:43	07:08 16:56
3	05:32 20:38	05:54 (7) 20:17	05:57 19:32	06:28 18:41	06:59 18:41	07:09 16:55
4	05:32 20:38	05:55 (7) 20:16	05:58 19:31	06:29 18:39	07:00 18:39	07:10 16:54
5	05:33 20:38	05:55 (7) 20:15	05:59 19:29	06:30 18:38	07:01 18:38	07:11 16:52
6	05:33 20:38	05:56 (7) 20:14	06:00 19:27	06:31 18:36	07:02 18:36	07:12 16:51
7	05:34 20:37	05:57 (7) 20:11	06:01 19:24	06:32 18:33	07:03 18:33	07:13 16:49
8	05:35 20:37	05:57 (7) 20:10	06:02 19:22	06:33 18:31	07:04 18:31	07:14 16:48
9	05:35 20:37	05:58 (7) 20:11	06:03 19:24	06:34 18:33	07:05 18:33	07:15 16:49
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:30	07:06 18:30	07:16 16:47
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	07:07 18:28	07:16 16:46
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	07:08 18:26	07:17 16:45
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	07:10 18:25	07:18 16:44
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	07:11 18:23	07:19 16:43
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	14 08:16 (WTG 06) 08:30 (WTG 06)	06:48 16:42
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	08:12 (WTG 06) 08:33 (WTG 06)	06:50 16:41
17	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	08:09 (WTG 06) 08:36 (WTG 06)	06:51 16:40
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	08:07 (WTG 06) 08:37 (WTG 06)	06:52 16:40
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	08:05 (WTG 06) 08:39 (WTG 06)	06:53 16:39
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	08:04 (WTG 06) 08:40 (WTG 06)	06:54 16:38
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	08:02 (WTG 06) 08:41 (WTG 06)	06:56 16:37
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	08:01 (WTG 06) 08:41 (WTG 06)	06:57 16:37
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	08:00 (WTG 06) 08:42 (WTG 06)	06:58 16:36
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	07:59 (WTG 06) 08:42 (WTG 06)	06:59 16:36
25	05:48 20:26	06:19 19:47	06:50 18:55	06:23 17:07	07:58 (WTG 06) 08:42 (WTG 06)	07:00 16:35
26	05:49 20:25	06:20 19:45	06:51 18:53	06:24 17:05	07:57 (WTG 06) 08:43 (WTG 06)	07:01 16:34
27	05:50 20:24	06:21 19:44	06:53 18:51	06:26 17:04	07:57 (WTG 06) 08:43 (WTG 06)	07:02 16:34
28	05:51 20:23	06:22 19:42	06:54 18:50	06:27 17:02	07:56 (WTG 06) 08:43 (WTG 06)	07:04 16:34
29	05:52 20:22	06:23 19:41	06:55 18:48	06:28 17:01	07:56 (WTG 06) 08:42 (WTG 06)	07:05 16:33
30	05:53 20:21	06:24 19:39	06:56 18:46	06:29 17:00	07:55 (WTG 06) 08:42 (WTG 06)	07:06 16:33
31	05:54 20:20	06:25 19:37		06:30 16:59		07:27 16:40
Ore potenziali eliofania	460	429	375	345	297	287
Totale, caso peggiore	23		602	515		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 148 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (453)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:50	06:46 19:25	05:59 19:58	05:30 20:28	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:24 (8) 16:32
2	07:27 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:25 (8) 16:32
3	07:28 16:43	07:12 17:18	06:34 17:53	06:42 19:27	05:57 20:00	05:29 20:29	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:28 (8) 16:32
4	07:28 16:44	07:11 17:20	06:32 17:54	06:41 19:28	05:55 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:54	07:32 (8) 16:32
5	07:28 16:45	07:09 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:30	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31
6	07:28 16:46	07:08 17:22	06:29 17:56	06:37 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:37 16:51	07:12 16:31
7	07:27 16:47	07:07 17:23	06:28 17:57	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	06:26 17:59	06:34 19:33	05:51 20:05	05:27 20:32	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	07:27 16:49	07:05 17:26	06:24 18:00	06:32 19:34	05:49 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	07:27 16:50	07:04 17:27	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47	07:16 16:31
11	07:27 16:51	07:03 17:29	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	07:27 16:52	07:01 17:30	06:19 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31
13	07:26 16:53	07:00 17:31	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44	07:18 16:31
14	07:26 16:54	06:59 17:32	06:16 18:05	06:24 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	07:25 16:55	06:57 17:34	06:14 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	06:48 16:42	07:20 16:32
16	07:25 16:56	06:56 17:35	06:13 18:08	06:21 19:41	05:42 20:13	05:27 20:36	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	07:25 16:57	06:55 17:36	06:11 18:09	06:20 19:42	05:41 20:14	05:27 20:37	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	06:51 16:40	07:21 16:32
18	07:24 16:59	06:53 17:37	06:09 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	07:24 17:00	06:52 17:38	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:37	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:40	07:22 16:33
20	07:23 17:01	06:51 17:40	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:33
21	07:22 17:02	06:49 17:41	06:04 18:13	06:14 19:47	05:37 20:18	05:27 20:38	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	06:56 16:37	07:23 16:34
22	07:22 17:03	06:48 17:42	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	07:21 17:05	06:46 17:43	06:01 18:15	06:11 19:49	05:36 20:20	05:28 20:38	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35
24	07:20 17:06	06:45 17:45	05:59 18:16	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:35	07:25 16:35
25	07:20 17:07	06:43 17:46	05:58 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:50 18:55	06:23 17:07	07:00 16:35	07:25 16:36
26	07:19 17:08	06:42 17:47	05:56 18:19	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:25	06:20 19:45	06:51 18:53	06:24 17:05	07:01 16:36	07:26 16:37
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:24	06:21 19:44	06:52 18:51	06:26 17:04	07:02 16:37	07:26 16:38
28	07:17 17:11	06:39 17:49	05:53 18:21	06:03 19:54	05:32 20:24	05:29 20:39	05:51 20:23	06:22 19:42	06:53 18:50	06:27 17:02	07:04 16:38	07:26 16:39
29	07:16 17:12	06:38 17:50	05:51 18:22	06:02 19:55	05:32 20:25	05:30 20:39	05:52 20:22	06:23 19:40	06:55 18:48	06:28 17:01	07:05 16:39	07:27 16:40
30	07:15 17:13	06:37 17:49	05:50 18:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:21	06:24 19:39	06:56 18:46	06:29 17:00	07:06 16:40	07:27 16:41
31	07:15 17:15	06:37 17:49	05:50 18:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:21	06:24 19:39	06:56 18:46	06:29 17:00	07:06 16:40	07:27 16:41
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		353								307	48	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 149 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (454)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:27 16:41	07:14 17:16	06:37 17:50	06:46 19:25	05:59 19:58	05:30 20:28	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:27 (8) 16:32
2	07:27 16:42	07:13 17:17	06:36 17:52	06:44 19:26	05:58 19:59	05:30 20:28	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:28 (8) 16:32
3	07:28 16:43	07:12 17:18	06:34 17:53	06:42 19:27	05:57 20:00	05:29 20:29	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:33 (8) 16:32
4	07:28 16:44	07:11 17:20	06:32 17:54	06:41 19:28	05:55 20:01	05:29 20:30	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:10 16:32
5	07:28 16:45	07:09 17:21	06:31 17:55	06:39 19:30	05:54 20:02	05:28 20:30	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31
6	07:28 16:46	07:08 17:22	06:29 17:56	06:37 19:31	05:53 20:03	05:28 20:31	05:33 20:38	06:00 20:14	06:31 19:27	07:02 18:36	06:37 16:51	07:12 16:31
7	07:27 16:47	07:07 17:23	06:28 17:57	06:36 19:32	05:52 20:04	05:28 20:32	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	07:27 16:48	07:06 17:25	08:02 (8) 08:08 (8)	06:26 17:59	06:34 19:33	05:51 20:05	05:27 20:32	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49
9	07:27 16:49	07:05 17:26	07:59 (8) 08:12 (8)	06:24 18:00	06:32 19:34	05:49 20:06	05:27 20:33	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48
10	07:27 16:50	07:04 17:27	07:56 (8) 08:14 (8)	06:23 18:01	06:31 19:35	05:48 20:07	05:27 20:34	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47
11	07:27 16:51	07:03 17:29	07:55 (8) 08:15 (8)	06:21 18:02	06:29 19:36	05:47 20:08	05:27 20:34	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46
12	07:27 16:52	07:01 17:30	07:54 (8) 08:17 (8)	06:19 18:03	06:28 19:37	05:46 20:09	05:27 20:35	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45
13	07:26 16:53	07:00 17:31	07:54 (8) 08:18 (8)	06:18 18:04	06:26 19:38	05:45 20:10	05:27 20:35	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	06:46 16:44
14	07:26 16:54	06:59 17:32	07:53 (8) 08:18 (8)	06:16 18:05	06:24 19:39	05:44 20:11	05:27 20:36	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43
15	07:25 16:55	06:57 17:34	07:52 (8) 08:19 (8)	06:14 18:07	06:23 19:40	05:43 20:12	05:27 20:36	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	06:48 16:42
16	07:25 16:56	06:56 17:35	07:52 (8) 08:19 (8)	06:13 18:08	06:21 19:41	05:42 20:13	05:27 20:36	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	6 08:39 (8) 08:29 (8)
17	07:25 16:57	06:55 17:36	07:52 (8) 08:19 (8)	06:11 18:09	06:20 19:42	05:41 20:14	05:27 20:37	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	13 08:42 (8) 08:28 (8)
18	07:24 16:59	06:53 17:37	07:52 (8) 08:19 (8)	06:09 18:10	06:18 19:44	05:40 20:15	05:27 20:37	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	17 08:45 (8) 08:26 (8)
19	07:24 17:00	06:52 17:38	07:51 (8) 08:18 (8)	06:08 18:11	06:17 19:45	05:39 20:16	05:27 20:37	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	20 08:46 (8) 08:24 (8)
20	07:23 17:01	06:51 17:40	07:52 (8) 08:18 (8)	06:06 18:12	06:15 19:46	05:38 20:17	05:27 20:38	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	23 08:47 (8) 08:23 (8)
21	07:22 17:02	06:49 17:41	07:52 (8) 08:17 (8)	06:04 18:13	06:14 19:47	05:37 20:18	05:27 20:38	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	25 08:48 (8) 08:22 (8)
22	07:22 17:03	06:48 17:42	07:53 (8) 08:17 (8)	06:03 18:14	06:12 19:48	05:37 20:19	05:27 20:38	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	26 08:48 (8) 08:22 (8)
23	07:21 17:05	06:46 17:43	07:53 (8) 08:15 (8)	06:01 18:15	06:11 19:49	05:36 20:20	05:28 20:38	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	27 08:49 (8) 08:22 (8)
24	07:20 17:06	06:45 17:45	07:55 (8) 08:14 (8)	06:09 18:16	06:09 19:50	05:35 20:21	05:28 20:39	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	27 08:49 (8) 08:22 (8)
25	07:20 17:07	06:43 17:46	07:56 (8) 08:12 (8)	06:08 18:18	06:08 19:51	05:34 20:22	05:28 20:39	05:48 20:26	06:19 19:47	06:50 18:55	06:23 17:07	27 07:48 (8) 07:22 (8)
26	07:19 17:08	06:42 17:47	07:58 (8) 08:10 (8)	06:06 18:19	06:06 19:52	05:34 20:23	05:28 20:39	05:49 20:25	06:20 19:45	06:51 18:53	06:24 17:05	27 07:49 (8) 07:22 (8)
27	07:18 17:10	06:40 17:48	05:54 18:20	06:05 19:53	05:33 20:24	05:29 20:39	05:50 20:24	06:21 19:44	06:52 18:51	06:26 17:04	06:26 17:04	26 07:48 (8) 07:22 (8)
28	07:17 17:11	06:39 17:49	05:53 18:21	06:03 19:54	05:32 20:24	05:29 20:39	05:51 20:23	06:22 19:42	06:53 18:50	06:27 17:02	06:27 17:02	25 07:47 (8) 07:23 (8)
29	07:16 17:12	06:39 17:49	06:51 19:22	06:02 19:55	05:32 20:25	05:30 20:39	05:52 20:22	06:23 19:40	06:55 18:48	06:28 17:01	06:28 17:01	23 07:46 (8) 07:24 (8)
30	07:15 17:13	06:39 17:49	06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39	05:53 20:21	06:24 19:39	06:56 18:46	06:29 17:00	06:29 17:00	22 07:46 (8) 07:25 (8)
31	07:15 17:15	06:39 17:49	06:47 19:24	06:01 19:57	05:31 20:27	05:30 20:39	05:54 20:20	06:25 19:37	06:30 16:58	06:30 16:58	06:30 16:58	20 07:45 (8)
Ore potenziali eliofanía	296	297	369	399	449	454	460	429	375	345	297	286
Totale, caso peggiore		408								381	33	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 150 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (455)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:27	11:45 (WTG 05)	07:14	06:37	07:51 (8)	06:46	05:59	05:30
	16:41	22 12:07 (WTG 05)	17:16	17:50	25 08:16 (8)	19:25	19:58	20:28
2	07:27	11:46 (WTG 05)	07:13	06:36	07:53 (8)	06:44	05:58	05:30
	16:42	20 12:06 (WTG 05)	17:17	17:52	22 08:15 (8)	19:26	19:59	20:28
3	07:28	11:48 (WTG 05)	07:12	06:34	07:54 (8)	06:42	05:57	05:29
	16:43	17 12:05 (WTG 05)	17:18	17:53	19 08:13 (8)	19:27	20:00	20:29
4	07:28	11:51 (WTG 05)	07:11	06:32	07:56 (8)	06:41	05:55	05:29
	16:44	12 12:03 (WTG 05)	17:20	17:54	14 08:10 (8)	19:28	20:01	20:30
5	07:28	11:55 (WTG 05)	07:09	06:31	08:01 (8)	06:39	05:54	05:28
	16:45	5 12:00 (WTG 05)	17:21	17:55	4 08:05 (8)	19:29	20:02	20:30
6	07:28		07:08	06:29		06:37	05:53	05:28
	16:46		17:22	17:56		19:31	20:03	20:31
7	07:27		07:07	06:28		06:36	05:52	05:28
	16:47		17:23	17:57		19:32	20:04	20:32
8	07:27		07:06	06:26		06:34	05:51	05:27
	16:48		17:25	17:59		19:33	20:05	20:32
9	07:27		07:05	06:24		06:32	05:49	05:27
	16:49		17:26	18:00		19:34	20:06	20:33
10	07:27		07:04	06:23		06:31	05:48	05:27
	16:50		17:27	18:01		19:35	20:07	20:34
11	07:27		07:03	06:21		06:29	05:47	05:27
	16:51		17:29	18:02		19:36	20:08	20:34
12	07:27		07:01	08:00 (8)	06:19	06:28	05:46	05:27
	16:52		17:30	12 08:12 (8)	18:03	19:37	20:09	20:35
13	07:26		07:00	07:58 (8)	06:18	06:26	05:45	05:27
	16:53		17:31	17 08:15 (8)	18:04	19:38	20:10	20:35
14	07:26		06:59	07:55 (8)	06:16	06:24	05:44	05:27
	16:54		17:32	21 08:16 (8)	18:05	19:39	20:11	20:36
15	07:25		06:57	07:54 (8)	06:14	06:23	05:43	05:27
	16:55		17:34	24 08:18 (8)	18:07	19:40	20:12	20:36
16	07:25		06:56	07:53 (8)	06:13	06:21	05:42	05:27
	16:56		17:35	26 08:19 (8)	18:08	19:41	20:13	20:36
17	07:25		06:55	07:52 (8)	06:11	06:20	05:41	05:27
	16:57		17:36	28 08:20 (8)	18:09	19:42	20:14	20:37
18	07:24		06:53	07:51 (8)	06:09	06:18	05:40	05:27
	16:59		17:37	30 08:21 (8)	18:10	19:44	20:15	20:37
19	07:24		06:52	07:50 (8)	06:08	06:17	05:39	05:27
	17:00		17:38	31 08:21 (8)	18:11	19:45	20:16	20:37
20	07:23		06:51	07:50 (8)	06:06	06:15	05:38	05:27
	17:01		17:40	31 08:21 (8)	18:12	19:46	20:17	20:38
21	07:22		06:49	07:49 (8)	06:04	06:14	05:37	05:27
	17:02		17:41	32 08:21 (8)	18:13	19:47	20:18	20:38
22	07:22		06:48	07:49 (8)	06:03	06:12	05:37	05:27
	17:03		17:42	32 08:21 (8)	18:14	19:48	20:19	20:38
23	07:21		06:46	07:48 (8)	06:01	06:11	05:36	05:28
	17:05		17:43	33 08:21 (8)	18:15	19:49	20:20	20:38
24	07:20		06:45	07:49 (8)	05:59	06:09	05:35	05:28
	17:06		17:45	32 08:21 (8)	18:16	19:50	20:21	20:38
25	07:20		06:43	07:49 (8)	05:58	06:08	05:34	05:28
	17:07		17:46	31 08:20 (8)	18:18	19:51	20:22	20:39
26	07:19		06:42	07:49 (8)	05:56	06:06	05:34	05:28
	17:08		17:47	31 08:20 (8)	18:19	19:52	20:23	20:39
27	07:18		06:40	07:49 (8)	05:54	06:05	05:33	05:29
	17:10		17:48	30 08:19 (8)	18:20	19:53	20:23	20:39
28	07:17		06:39	07:51 (8)	05:52	06:03	05:32	05:29
	17:11		17:49	27 08:18 (8)	18:21	19:54	20:24	20:39
29	07:16			06:51		06:02	05:32	05:30
	17:12			19:22		19:55	20:25	20:39
30	07:15			06:49		06:01	05:31	05:30
	17:13			19:23		19:57	20:26	20:39
31	07:15			06:47			05:31	
	17:15			19:24			20:27	
Ore potenziali eliofania	296	297	369	399	449	454		
Totale, caso peggiore	76	468	84					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 150 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (455)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembr	Ottobre		Novembr	Dicembre	
1	05:30	05:55	06:26	06:57		06:31	07:07	
	20:39	20:19	19:36	18:44		16:57	16:32	
2	05:31	05:56	06:27	06:58		06:33	07:08	
	20:38	20:18	19:34	18:43		16:56	16:32	
3	05:31	05:57	06:28	06:59		06:34	07:09	
	20:38	20:17	19:32	18:41		16:55	16:32	
4	05:32	05:58	06:29	07:00		06:35	07:10	
	20:38	20:16	19:31	18:39		16:53	16:32	
5	05:33	05:59	06:30	07:01		06:36	07:11	
	20:38	20:15	19:29	18:38		16:52	16:31	
6	05:33	06:00	06:31	07:02		06:37	07:12	
	20:38	20:13	19:27	18:36		16:51	16:31	
7	05:34	06:01	06:32	07:03		06:39	07:13	11:44 (WTG 05)
	20:37	20:12	19:26	18:34		16:50	16:31	2 11:46 (WTG 05)
8	05:34	06:02	06:33	07:04		06:40	07:14	11:39 (WTG 05)
	20:37	20:11	19:24	18:33		16:49	16:31	12 11:51 (WTG 05)
9	05:35	06:03	06:34	07:05	08:32 (8)	06:41	07:15	11:38 (WTG 05)
	20:37	20:10	19:22	18:31	10 08:42 (8)	16:48	16:31	16 11:54 (WTG 05)
10	05:36	06:04	06:35	07:06	08:30 (8)	06:42	07:16	11:36 (WTG 05)
	20:36	20:08	19:21	18:29	16 08:46 (8)	16:47	16:31	19 11:55 (WTG 05)
11	05:36	06:05	06:36	07:07	08:27 (8)	06:44	07:16	11:35 (WTG 05)
	20:36	20:07	19:19	18:28	21 08:48 (8)	16:46	16:31	22 11:57 (WTG 05)
12	05:37	06:06	06:37	07:08	08:25 (8)	06:45	07:17	11:35 (WTG 05)
	20:35	20:06	19:17	18:26	24 08:49 (8)	16:45	16:31	23 11:58 (WTG 05)
13	05:38	06:07	06:38	07:10	08:24 (8)	06:46	07:18	11:34 (WTG 05)
	20:35	20:04	19:15	18:25	26 08:50 (8)	16:44	16:31	26 12:00 (WTG 05)
14	05:39	06:08	06:39	07:11	08:23 (8)	06:47	07:19	11:34 (WTG 05)
	20:34	20:03	19:14	18:23	28 08:51 (8)	16:43	16:32	27 12:01 (WTG 05)
15	05:39	06:09	06:40	07:12	08:22 (8)	06:48	07:20	11:34 (WTG 05)
	20:34	20:02	19:12	18:21	29 08:51 (8)	16:42	16:32	27 12:01 (WTG 05)
16	05:40	06:10	06:41	07:13	08:21 (8)	06:50	07:20	11:34 (WTG 05)
	20:33	20:00	19:10	18:20	30 08:51 (8)	16:41	16:32	29 12:03 (WTG 05)
17	05:41	06:11	06:42	07:14	08:21 (8)	06:51	07:21	11:34 (WTG 05)
	20:32	19:59	19:09	18:18	32 08:53 (8)	16:40	16:32	30 12:04 (WTG 05)
18	05:42	06:12	06:43	07:15	08:20 (8)	06:52	07:22	11:34 (WTG 05)
	20:32	19:57	19:07	18:17	32 08:52 (8)	16:40	16:33	30 12:04 (WTG 05)
19	05:43	06:13	06:44	07:16	08:20 (8)	06:53	07:22	11:35 (WTG 05)
	20:31	19:56	19:05	18:15	32 08:52 (8)	16:39	16:33	30 12:05 (WTG 05)
20	05:44	06:14	06:45	07:17	08:20 (8)	06:54	07:23	11:34 (WTG 05)
	20:30	19:54	19:03	18:14	32 08:52 (8)	16:38	16:33	31 12:05 (WTG 05)
21	05:44	06:15	06:46	07:19	08:20 (8)	06:56	07:23	11:35 (WTG 05)
	20:30	19:53	19:02	18:12	31 08:51 (8)	16:37	16:34	31 12:06 (WTG 05)
22	05:45	06:16	06:47	07:20	08:21 (8)	06:57	07:24	11:35 (WTG 05)
	20:29	19:51	19:00	18:11	31 08:52 (8)	16:37	16:34	31 12:06 (WTG 05)
23	05:46	06:17	06:48	07:21	08:21 (8)	06:58	07:24	11:36 (WTG 05)
	20:28	19:50	18:58	18:09	30 08:51 (8)	16:36	16:35	31 12:07 (WTG 05)
24	05:47	06:18	06:49	07:22	08:21 (8)	06:59	07:25	11:36 (WTG 05)
	20:27	19:48	18:56	18:08	29 08:50 (8)	16:35	16:35	31 12:07 (WTG 05)
25	05:48	06:19	06:50	06:23	07:21 (8)	07:00	07:25	11:38 (WTG 05)
	20:26	19:47	18:55	17:07	28 07:49 (8)	16:35	16:36	30 12:08 (WTG 05)
26	05:49	06:20	06:51	06:24	07:23 (8)	07:01	07:26	11:38 (WTG 05)
	20:25	19:45	18:53	17:05	26 07:49 (8)	16:34	16:37	30 12:08 (WTG 05)
27	05:50	06:21	06:52	06:25	07:24 (8)	07:02	07:26	11:39 (WTG 05)
	20:24	19:44	18:51	17:04	23 07:47 (8)	16:34	16:37	29 12:08 (WTG 05)
28	05:51	06:22	06:53	06:27	07:25 (8)	07:04	07:26	11:39 (WTG 05)
	20:23	19:42	18:50	17:02	20 07:45 (8)	16:33	16:38	29 12:08 (WTG 05)
29	05:52	06:23	06:55	06:28	07:27 (8)	07:05	07:27	11:41 (WTG 05)
	20:22	19:40	18:48	17:01	16 07:43 (8)	16:33	16:39	27 12:08 (WTG 05)
30	05:53	06:24	06:56	06:29	07:31 (8)	07:06	07:27	11:42 (WTG 05)
	20:21	19:39	18:46	17:00	10 07:41 (8)	16:33	16:39	26 12:08 (WTG 05)
31	05:54	06:25		06:30			07:27	11:43 (WTG 05)
	20:20	19:37		16:58			16:40	24 12:07 (WTG 05)
Ore potenziali eliofanìa	460	429	375	345		297	286	
Totale, caso peggiore				556			643	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 151 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (456)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27	13:11 (WTG 05)	07:14	08:13 (8)	06:37	08:10 (8)	06:46	05:59	05:30			
	16:41	55 15:47 (WTG 04)	17:16	30 08:43 (8)	17:50	32 08:42 (8)	19:25	19:58	20:28			
2	07:27	13:12 (WTG 05)	07:13	08:12 (8)	06:36	08:12 (8)	06:44	05:58	05:30			
	16:42	52 15:46 (WTG 04)	17:17	33 08:45 (8)	17:52	28 08:40 (8)	19:26	19:59	20:28			
3	07:28	13:13 (WTG 05)	07:12	08:11 (8)	06:34	08:14 (8)	06:42	05:57	05:29			
	16:43	50 15:46 (WTG 04)	17:18	36 08:47 (8)	17:53	23 08:37 (8)	19:27	20:00	20:29			
4	07:28	13:15 (WTG 05)	07:11	08:10 (8)	06:32	08:17 (8)	06:41	05:55	05:29			
	16:44	45 15:45 (WTG 04)	17:20	38 08:48 (8)	17:54	16 08:33 (8)	19:28	20:01	20:30			
5	07:28	13:16 (WTG 05)	07:09	08:08 (8)	06:31		06:39	05:54	05:28			
	16:45	41 15:44 (WTG 04)	17:21	40 08:48 (8)	17:55		19:29	20:02	20:30			
6	07:28	13:17 (WTG 05)	07:08	08:07 (8)	06:29		06:37	05:53	05:28			
	16:46	33 13:50 (WTG 05)	17:22	42 08:49 (8)	17:56		19:31	20:03	20:31			
7	07:27	13:19 (WTG 05)	07:07	08:07 (8)	06:28		06:36	05:52	05:28			
	16:47	31 13:50 (WTG 05)	17:23	44 08:51 (8)	17:57		19:32	20:04	20:32			
8	07:27	13:20 (WTG 05)	07:06	08:06 (8)	06:26		06:34	05:51	05:27			
	16:48	29 13:49 (WTG 05)	17:25	45 08:51 (8)	17:59		19:33	20:05	20:32			
9	07:27	13:22 (WTG 05)	07:05	08:06 (8)	06:24		06:32	05:49	05:27			
	16:49	26 13:48 (WTG 05)	17:26	46 08:52 (8)	18:00		19:34	20:06	20:33			
10	07:27	13:24 (WTG 05)	07:04	08:05 (8)	06:23		06:31	05:48	05:27			
	16:50	23 13:47 (WTG 05)	17:27	47 08:52 (8)	18:01		19:35	20:07	20:34			
11	07:27	13:27 (WTG 05)	07:03	08:05 (8)	06:21		06:29	05:47	05:27			
	16:51	19 13:46 (WTG 05)	17:29	48 08:53 (8)	18:02		19:36	20:08	20:34			
12	07:27	13:30 (WTG 05)	07:01	08:05 (8)	06:19		06:28	05:46	05:27			
	16:52	13 13:43 (WTG 05)	17:30	49 08:54 (8)	18:03		19:37	20:09	20:35			
13	07:26		07:00	08:05 (8)	06:18		06:26	05:45	05:27			
	16:53		17:31	49 08:54 (8)	18:04		19:38	20:10	20:35			
14	07:26		06:59	08:04 (8)	06:16		06:24	05:44	05:27			
	16:54		17:32	50 08:54 (8)	18:05		19:39	20:11	20:36			
15	07:25		06:57	08:04 (8)	06:14		06:23	05:43	05:27			
	16:55		17:34	50 08:54 (8)	18:07		19:40	20:12	20:36			
16	07:25		06:56	08:04 (8)	06:13		06:21	05:42	05:27			
	16:56		17:35	50 08:54 (8)	18:08		19:41	20:13	20:36			
17	07:25		06:55	08:03 (8)	06:11		06:20	05:41	05:27			
	16:57		17:36	51 08:54 (8)	18:09		19:42	20:14	20:37			
18	07:24		06:53	08:04 (8)	06:09		06:18	05:40	05:27			
	16:59		17:37	50 08:54 (8)	18:10		19:44	20:15	20:37			
19	07:24		06:52	08:03 (8)	06:08		06:17	05:39	05:27			
	17:00		17:38	50 08:53 (8)	18:11		19:45	20:16	20:37			
20	07:23		06:51	08:04 (8)	06:06		06:15	05:38	05:27			
	17:01		17:40	49 08:53 (8)	18:12		19:46	20:17	20:38			
21	07:22		06:49	08:04 (8)	06:04		06:14	05:37	05:27			
	17:02		17:41	48 08:52 (8)	18:13		19:47	20:18	20:38			
22	07:22		06:48	08:04 (8)	06:03		06:12	05:37	05:27			
	17:03		17:42	48 08:52 (8)	18:14		19:48	20:19	20:38			
23	07:21		06:46	08:04 (8)	06:01		06:11	05:36	05:27			
	17:05		17:43	46 08:50 (8)	18:15		19:49	20:20	20:38			
24	07:20		06:45	08:05 (8)	05:59		06:09	05:35	05:28			
	17:06		17:45	45 08:50 (8)	18:16		19:50	20:21	20:38			
25	07:20		06:43	08:06 (8)	05:58		06:08	05:34	05:28			
	17:07		17:46	42 08:48 (8)	18:18		19:51	20:22	20:39			
26	07:19		06:42	08:07 (8)	05:56		06:06	05:34	05:28			
	17:08		17:47	40 08:47 (8)	18:19		19:52	20:23	20:39			
27	07:18		06:40	08:07 (8)	05:54		06:05	05:33	05:29			
	17:10		17:48	39 08:46 (8)	18:20		19:53	20:23	20:39			
28	07:17		08:23 (8)	06:39	08:09 (8)	05:52	06:03	05:32	05:29			
	17:11	9	08:32 (8)	17:49	35 08:44 (8)	18:21	19:54	20:24	20:39			
29	07:16		08:19 (8)			06:51	06:02	05:32	05:30			
	17:12	17	08:36 (8)			19:22	19:55	20:25	20:39			
30	07:15		08:17 (8)			06:49	06:01	05:31	05:30			
	17:13	22	08:39 (8)			19:23	19:57	20:26	20:39			
31	07:15		08:15 (8)			06:47		05:31				
	17:15	26	08:41 (8)			19:24		20:27				
Ore potenziali eliofania	296		297		369		399	449	454			
Totale, caso peggiore	491		1240		99							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 151 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (456)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:35 (8) 16:32
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	47 16:56	19 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	46 16:55	23 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	45 16:53	26 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	43 16:52	29 16:31
6	05:33 20:38	06:00 20:13	06:31 19:27	07:02 18:36	42 16:51	31 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	40 16:50	33 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	38 16:49	41 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	35 16:48	45 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	33 16:47	50 16:31
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	30 16:46	52 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	26 16:45	55 16:31
13	05:37 20:35	06:07 20:04	06:38 19:15	07:09 18:25	22 16:44	56 16:31
14	05:38 20:34	06:08 20:03	06:39 19:14	07:10 18:23	17 16:43	58 16:32
15	05:39 20:34	06:09 20:02	06:40 19:12	07:11 18:21	8 16:42	60 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:12 18:20	40 16:41	60 16:32
17	05:41 20:32	06:11 19:59	06:42 19:09	07:13 18:18	41 16:41	62 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:14 18:17	43 16:40	62 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:15 18:15	45 16:39	64 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	07:16 18:14	46 16:38	64 16:33
21	05:44 20:30	06:15 19:53	06:46 19:02	07:17 18:12	47 16:37	64 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	07:18 18:11	48 16:37	64 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:19 18:09	50 16:36	64 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	07:20 18:08	50 16:35	64 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:21 18:07	50 16:34	64 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:22 18:05	50 16:33	64 16:37
27	05:50 20:24	06:21 19:44	06:52 18:51	07:23 18:04	50 16:32	63 16:37
28	05:51 20:23	06:22 19:42	06:53 18:50	07:24 18:03	50 16:31	62 16:38
29	05:52 20:22	06:23 19:40	06:54 18:48	07:25 18:01	50 16:30	61 16:39
30	05:53 20:21	06:24 19:39	06:55 18:46	07:26 18:00	50 16:29	60 16:39
31	05:54 20:20	06:25 19:37	06:56 18:44	07:27 17:58	49 16:28	58 16:40
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore				965	485	1635

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 152 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (457)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:27		13:22 (WTG 05)	07:14		08:14 (8)	06:37		08:16 (8)	06:46		05:30
	16:41	63	15:54 (WTG 04)	17:16	41	08:55 (8)	17:50	32	08:48 (8)	19:25		20:28
2	07:27		13:23 (WTG 05)	07:13		08:13 (8)	06:36		08:19 (8)	06:44		05:30
	16:42	61	15:54 (WTG 04)	17:17	44	08:57 (8)	17:52	27	08:46 (8)	19:26		20:28
3	07:28		13:24 (WTG 05)	07:12		08:13 (8)	06:34		08:21 (8)	06:42		05:29
	16:43	58	15:53 (WTG 04)	17:18	45	08:58 (8)	17:53	21	08:42 (8)	19:27		20:29
4	07:28		13:25 (WTG 05)	07:11		08:12 (8)	06:32		08:25 (8)	06:41		05:29
	16:44	56	15:53 (WTG 04)	17:20	47	08:59 (8)	17:54	12	08:37 (8)	19:28		20:30
5	07:28		13:26 (WTG 05)	07:09		08:11 (8)	06:31			06:39		05:28
	16:45	54	15:53 (WTG 04)	17:21	48	08:59 (8)	17:55			19:29		20:30
6	07:28		13:27 (WTG 05)	07:08		08:10 (8)	06:29			06:37		05:28
	16:46	52	15:53 (WTG 04)	17:22	49	08:59 (8)	17:56			19:31		20:31
7	07:27		13:29 (WTG 05)	07:07		08:10 (8)	06:28			06:36		05:28
	16:47	47	15:52 (WTG 04)	17:23	50	09:00 (8)	17:57			19:32		20:32
8	07:27		13:29 (WTG 05)	07:06		08:10 (8)	06:26			06:34		05:27
	16:48	43	15:50 (WTG 04)	17:25	51	09:01 (8)	17:59			19:33		20:32
9	07:27		13:31 (WTG 05)	07:05		08:09 (8)	06:24			06:32		05:27
	16:49	32	14:03 (WTG 05)	17:26	53	09:02 (8)	18:00			19:34		20:33
10	07:27		13:33 (WTG 05)	07:04		08:08 (8)	06:23			06:31		05:27
	16:50	30	14:03 (WTG 05)	17:27	53	09:01 (8)	18:01			19:35		20:34
11	07:27		13:35 (WTG 05)	07:03		08:08 (8)	06:21			06:29		05:27
	16:51	27	14:02 (WTG 05)	17:29	54	09:02 (8)	18:02			19:36		20:34
12	07:27		13:36 (WTG 05)	07:01		08:09 (8)	06:19			06:28		05:27
	16:52	25	14:01 (WTG 05)	17:30	53	09:02 (8)	18:03			19:37		20:35
13	07:26		13:39 (WTG 05)	07:00		08:09 (8)	06:18			06:26		05:27
	16:53	20	13:59 (WTG 05)	17:31	54	09:03 (8)	18:04			19:38		20:35
14	07:26		13:42 (WTG 05)	06:59		08:08 (8)	06:16			06:24		05:27
	16:54	15	13:57 (WTG 05)	17:32	54	09:02 (8)	18:05			19:39		20:36
15	07:25		13:49 (WTG 05)	06:57		08:08 (8)	06:14			06:23		05:27
	16:55	3	13:52 (WTG 05)	17:34	54	09:02 (8)	18:07			19:40		20:36
16	07:25			06:56		08:09 (8)	06:13			06:21		05:27
	16:56			17:35	53	09:02 (8)	18:08			19:41		20:36
17	07:25			06:55		08:08 (8)	06:11			06:20		05:27
	16:57			17:36	53	09:01 (8)	18:09			19:42		20:37
18	07:24			06:53		08:09 (8)	06:09			06:18		05:27
	16:59			17:37	52	09:01 (8)	18:10			19:44		20:37
19	07:24			06:52		08:08 (8)	06:08			06:17		05:27
	17:00			17:38	52	09:00 (8)	18:11			19:45		20:37
20	07:23			06:51		08:09 (8)	06:06			06:15		05:27
	17:01			17:40	51	09:00 (8)	18:12			19:46		20:38
21	07:22			06:49		08:09 (8)	06:04			06:14		05:27
	17:02			17:41	50	08:59 (8)	18:13			19:47		20:38
22	07:22			06:48		08:10 (8)	06:03			06:12		05:27
	17:03			17:42	49	08:59 (8)	18:14			19:48		20:38
23	07:21			06:46		08:10 (8)	06:01			06:11		05:27
	17:05			17:43	47	08:57 (8)	18:15			19:49		20:38
24	07:20		08:27 (8)	06:45		08:11 (8)	05:59			06:09		05:28
	17:06	11	08:38 (8)	17:45	46	08:57 (8)	18:16			19:50		20:38
25	07:20		08:24 (8)	06:43		08:11 (8)	05:58			06:08		05:28
	17:07	18	08:42 (8)	17:46	44	08:55 (8)	18:18			19:51		20:39
26	07:19		08:21 (8)	06:42		08:13 (8)	05:56			06:06		05:28
	17:08	24	08:45 (8)	17:47	41	08:54 (8)	18:19			19:52		20:39
27	07:18		08:20 (8)	06:40		08:13 (8)	05:54			06:05		05:29
	17:10	28	08:48 (8)	17:48	39	08:52 (8)	18:20			19:53		20:39
28	07:17		08:19 (8)	06:39		08:15 (8)	05:52			06:03		05:29
	17:11	31	08:50 (8)	17:49	35	08:50 (8)	18:21			19:54		20:39
29	07:16		08:17 (8)				06:51			06:02		05:30
	17:12	34	08:51 (8)				19:22			19:55		20:39
30	07:15		08:16 (8)				06:49			06:01		05:30
	17:13	37	08:53 (8)				19:23			19:57		20:39
31	07:15		08:15 (8)				06:47					05:31
	17:15	39	08:54 (8)				19:24					20:27
Ore potenziali eliofania	296			297		369			399		449	454
Totale, caso peggiore	808			1362		92			399		449	454

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)



SHADOW - Calendario

Recettore d'ombra: 152 - Shadow Receptor: 0,1 x 0,1 Azimuth: 0,0° Slope: 90,0° (457)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:38 (8) 16:32
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	53 16:56	27 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	52 16:55	30 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	50 16:53	32 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	49 16:52	42 16:31
6	05:33 20:38	06:00 20:13	06:31 19:27	07:02 18:36	48 16:51	47 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	46 16:50	51 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	44 16:49	54 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	43 16:48	56 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	41 16:47	58 16:31
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	39 16:46	61 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	37 16:45	63 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	34 16:44	65 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	30 16:43	66 16:31
15	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	28 16:42	68 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	23 16:41	68 16:32
17	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	18 16:40	68 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	11 16:40	69 16:32
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	7 16:39	69 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	4 16:38	70 16:33
21	05:44 20:30	06:15 19:53	06:46 19:02	07:19 18:12	1 16:37	70 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	51 16:37	70 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	52 16:36	70 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	53 16:35	70 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	53 16:35	70 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 18:05	54 16:34	70 16:37
27	05:50 20:24	06:21 19:44	06:52 18:51	07:25 18:04	54 16:34	70 16:37
28	05:51 20:23	06:22 19:42	06:53 18:50	07:26 18:02	54 16:33	68 16:37
29	05:52 20:22	06:23 19:40	06:55 18:48	07:27 18:01	19 16:33	68 16:38
30	05:53 20:21	06:24 19:39	06:56 18:46	07:28 18:00	19 16:33	66 16:39
31	05:54 20:20	06:25 19:37	06:57 18:45	07:29 17:59	24 16:33	66 16:40
Ore potenziali eliofania	460	429	375	345	297	286
Totale, caso peggiore				993	755	1886

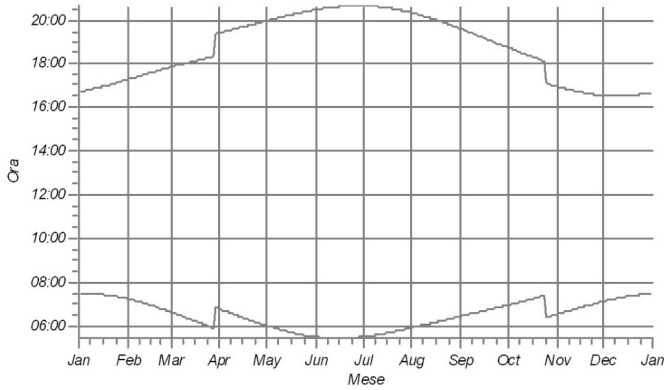
Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

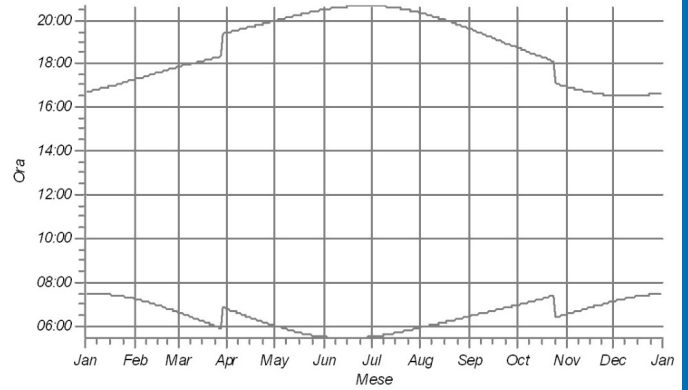


SHADOW - Calendario, grafico

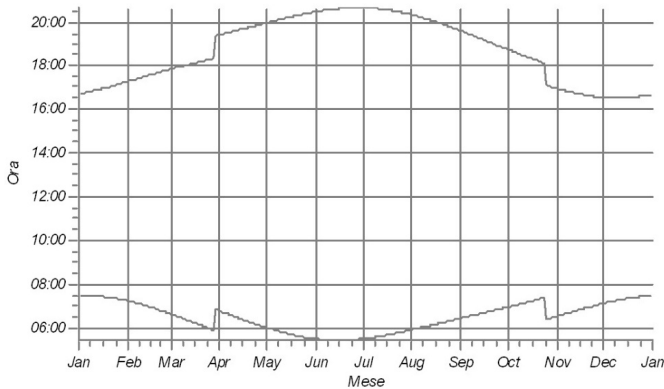
1: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (334)



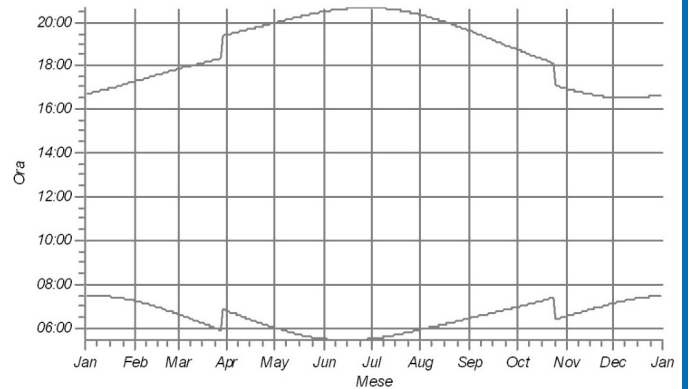
2: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (335)



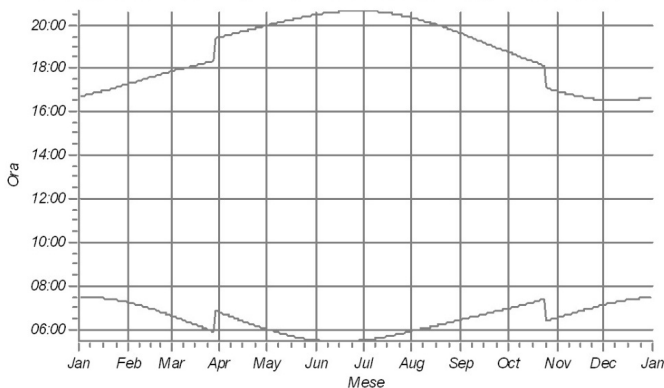
3: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (336)



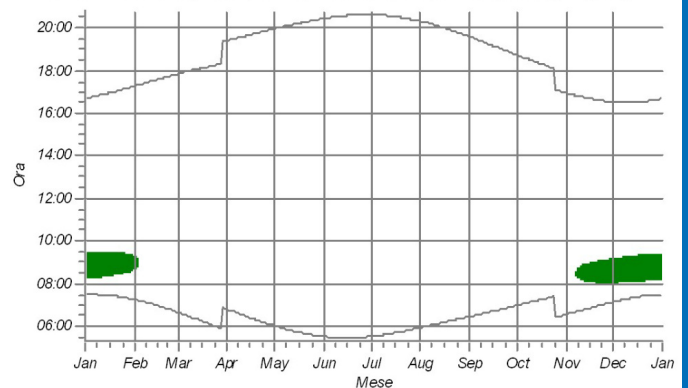
4: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (337)



5: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (306)



6: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (307)



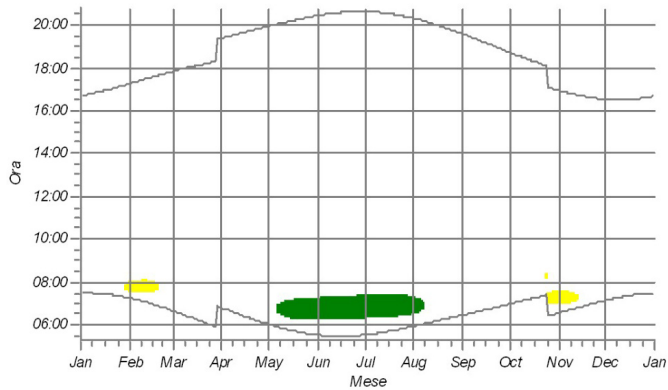
WTG

WTG 01: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (1)

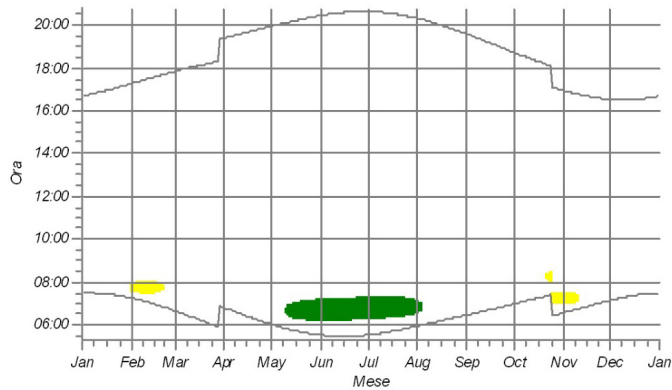


SHADOW - Calendario, grafico

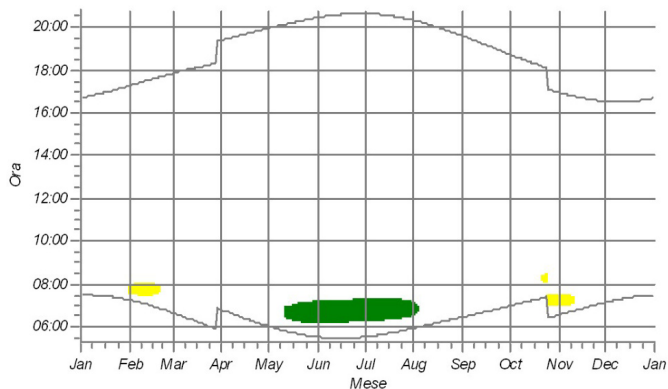
7: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (310)



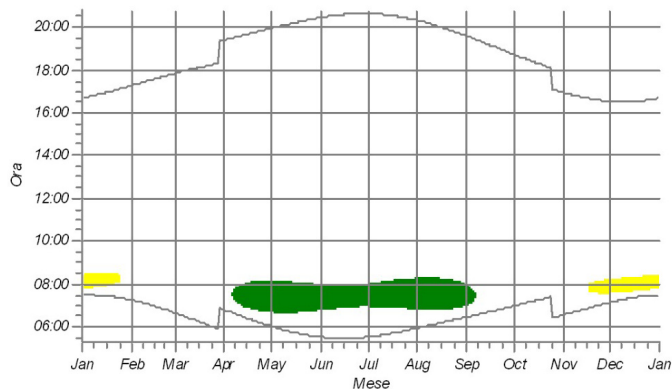
8: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (338)



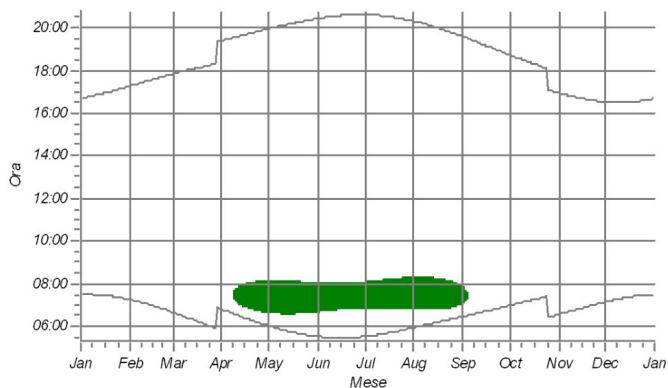
9: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (339)



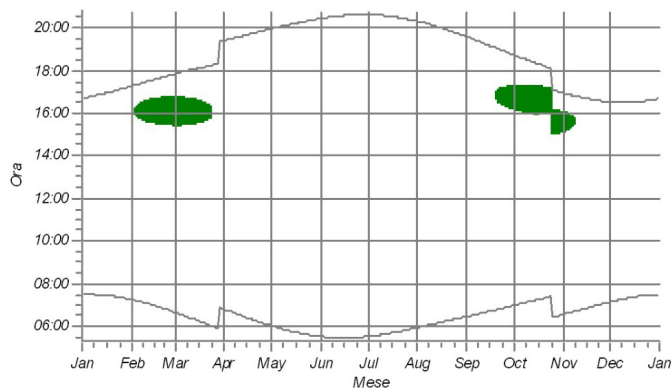
10: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (340)



11: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (308)



12: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (311)



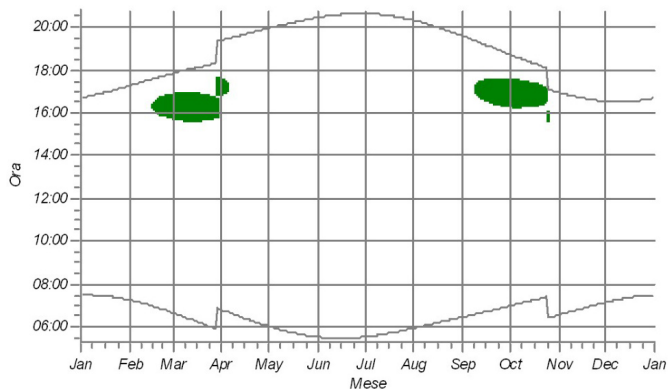
WTG

- WTG 01: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (1)
- WTG 02: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (2)

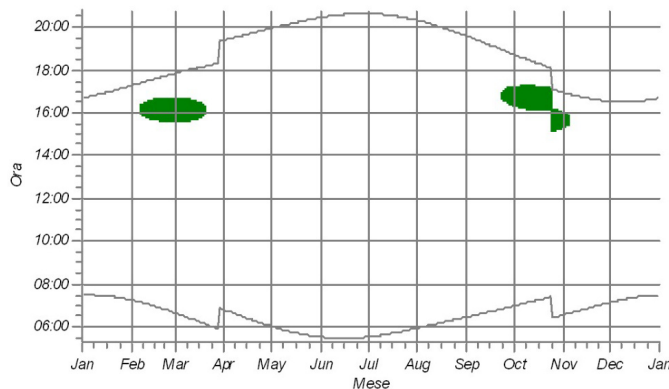


SHADOW - Calendario, grafico

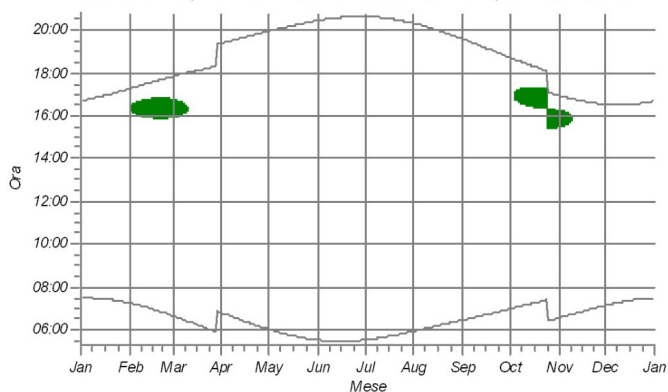
13: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (341)



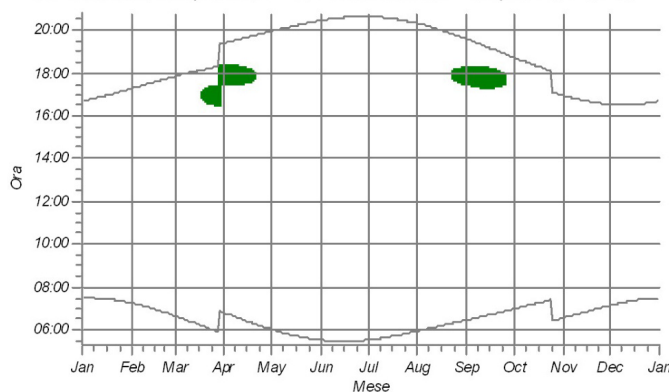
14: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (312)



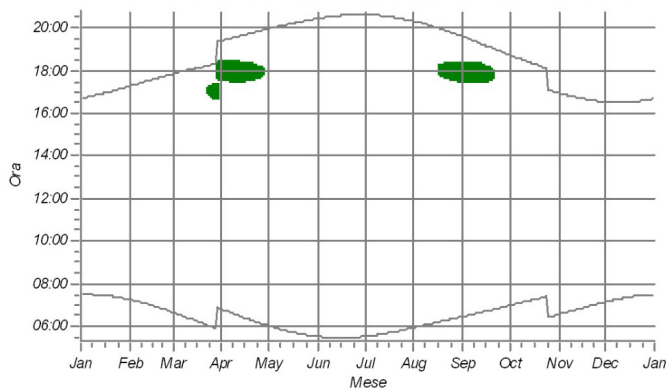
15: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (309)



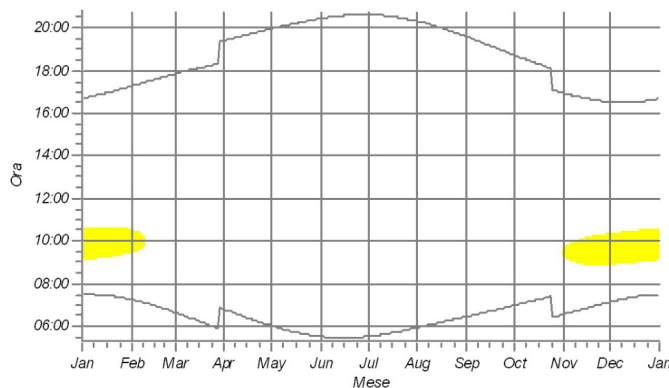
16: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (342)



17: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (343)



18: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (313)



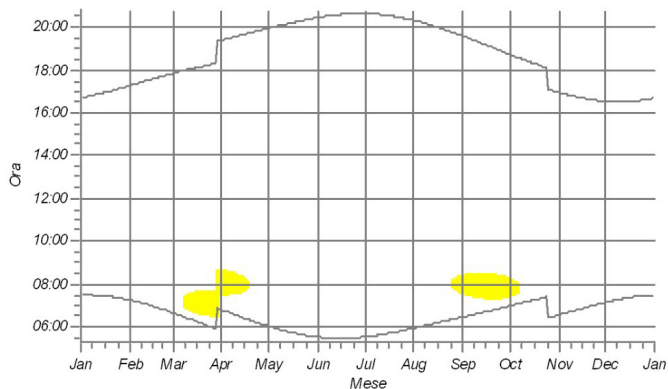
WTG

- WTG 01: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (1)
- WTG 02: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (2)

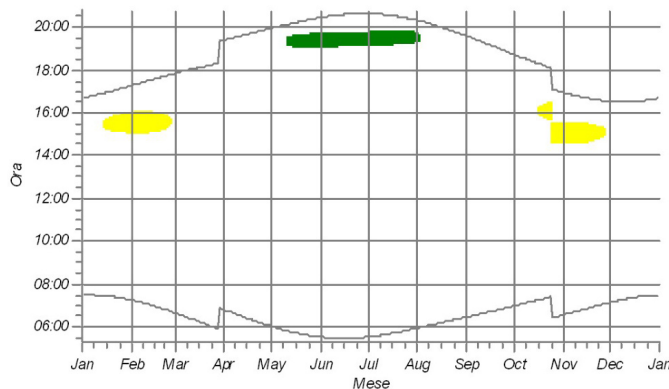


SHADOW - Calendario, grafico

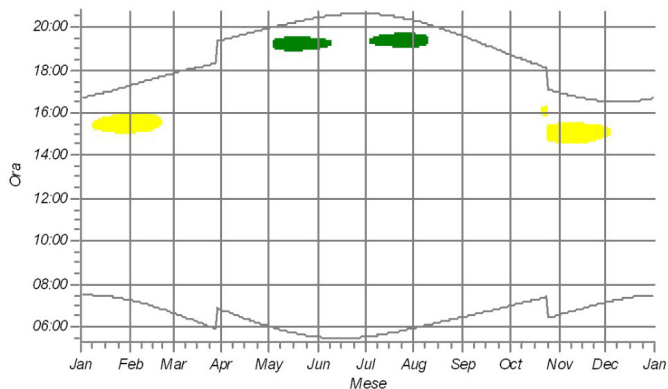
19: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (314)



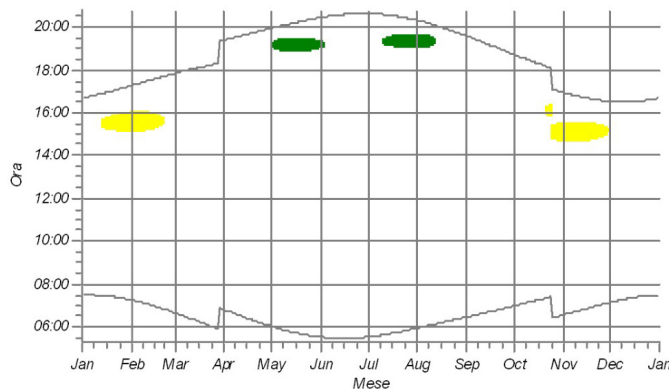
20: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (315)



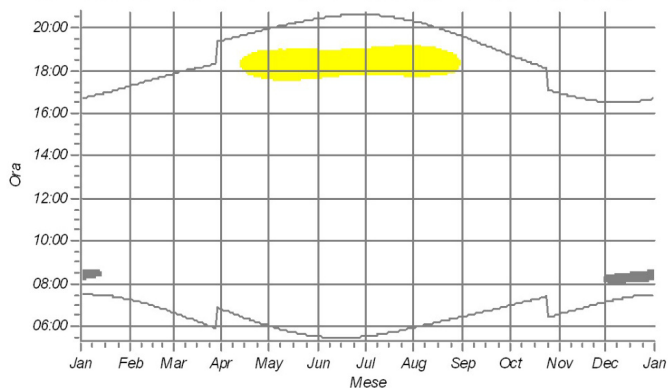
21: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (331)



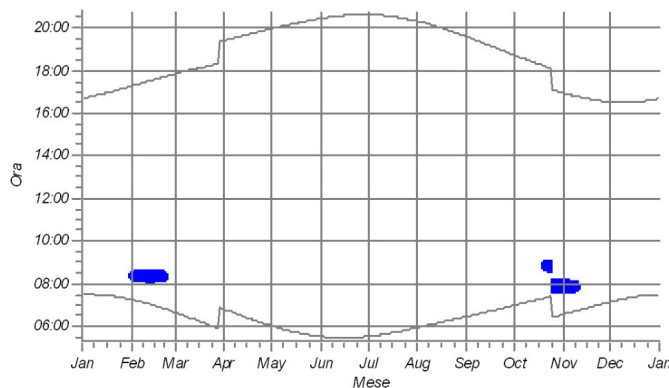
22: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (332)



23: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (316)



24: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (317)



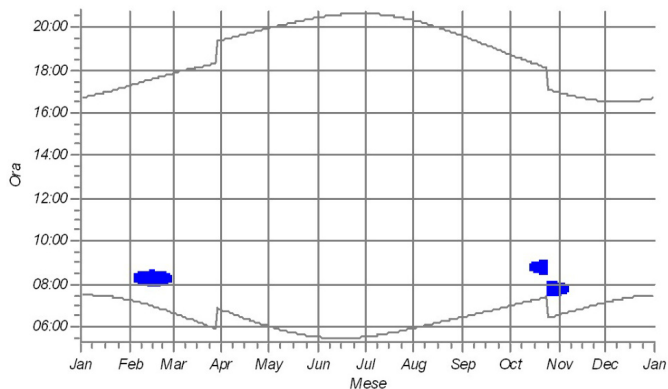
WTG

- WTG 01: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (1)
- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)

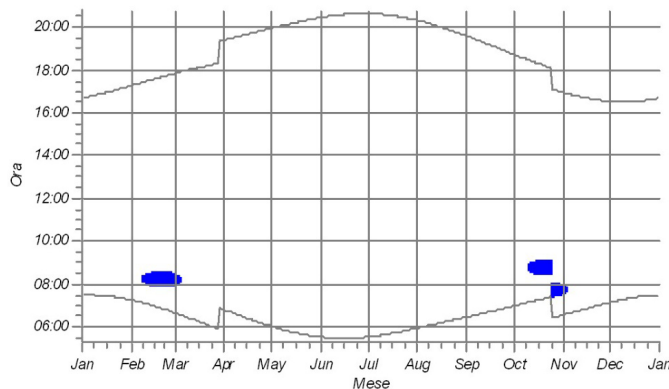


SHADOW - Calendario, grafico

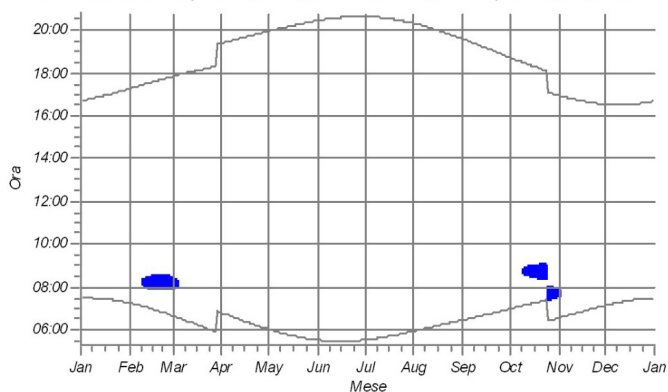
25: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (344)



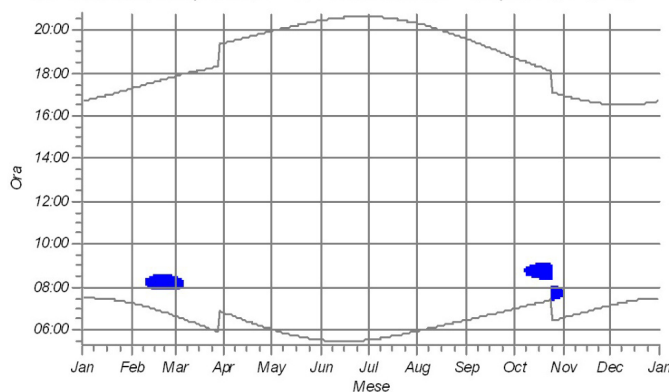
26: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (345)



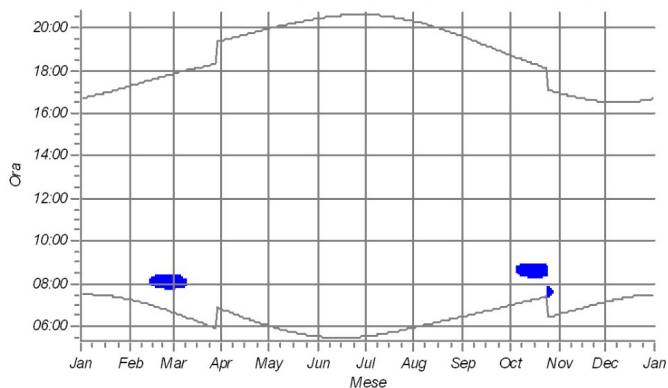
27: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (346)



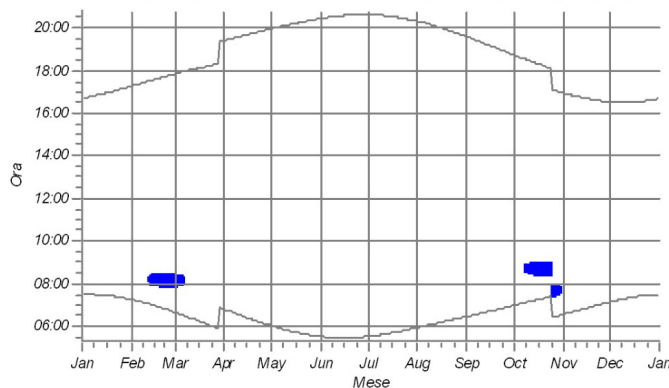
28: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (347)



29: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (348)



30: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (349)



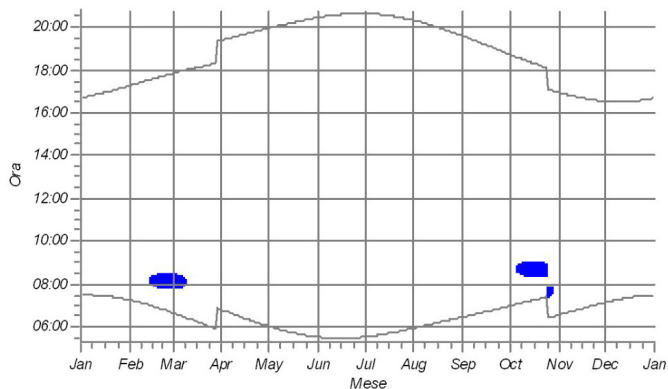
WTG

WTG 03: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (3)

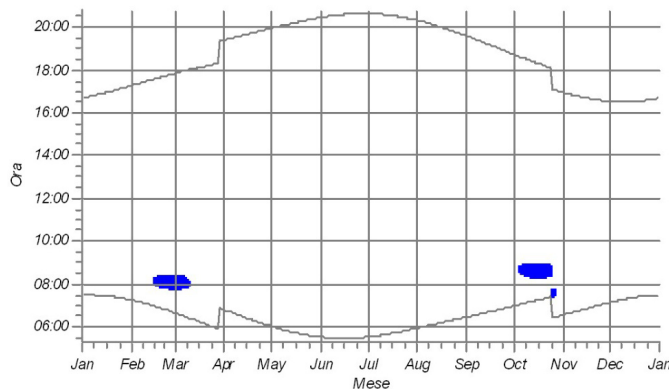


SHADOW - Calendario, grafico

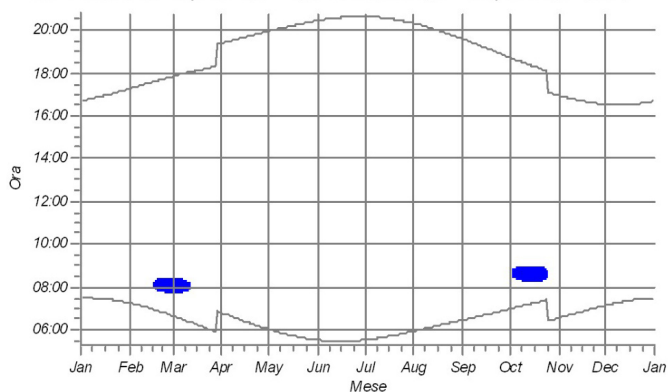
31: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (350)



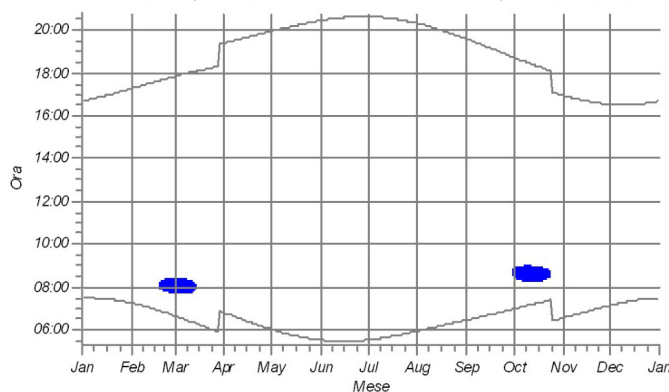
32: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (351)



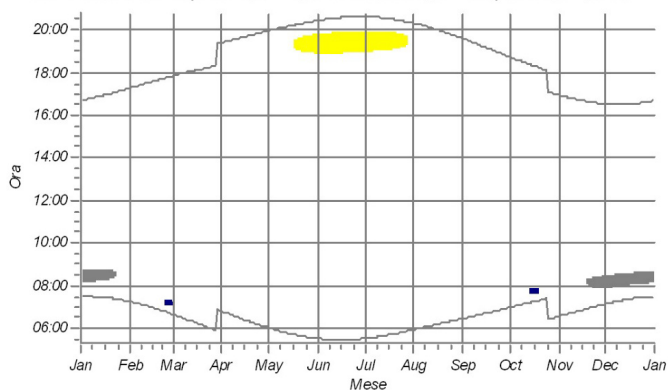
33: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (352)



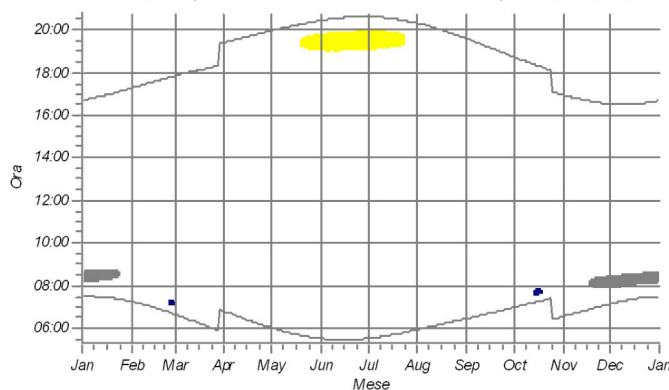
34: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (353)



35: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (320)



36: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (354)



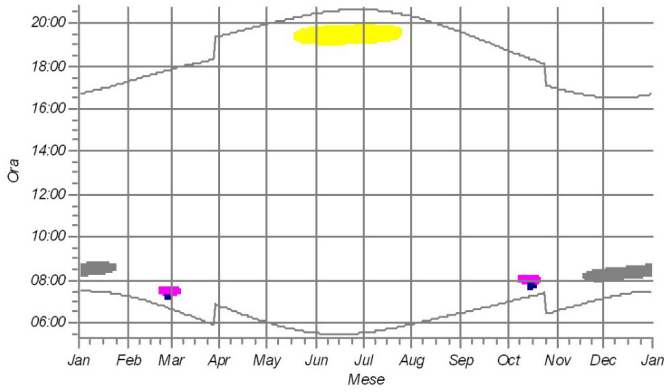
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

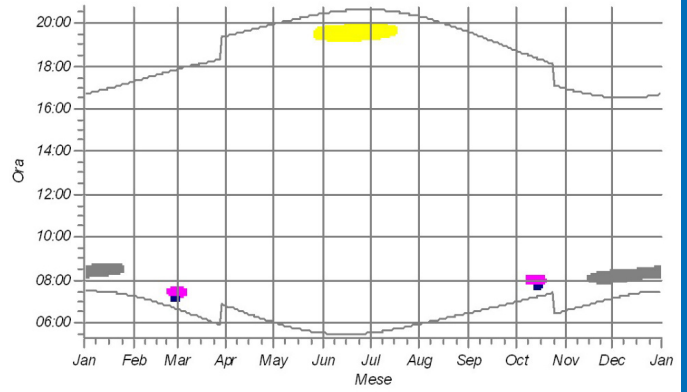


SHADOW - Calendario, grafico

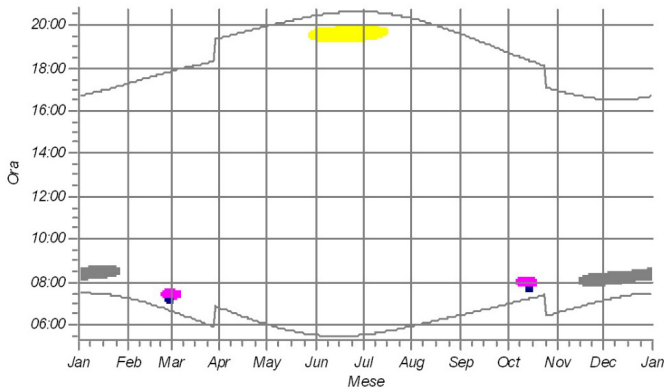
37: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (355)



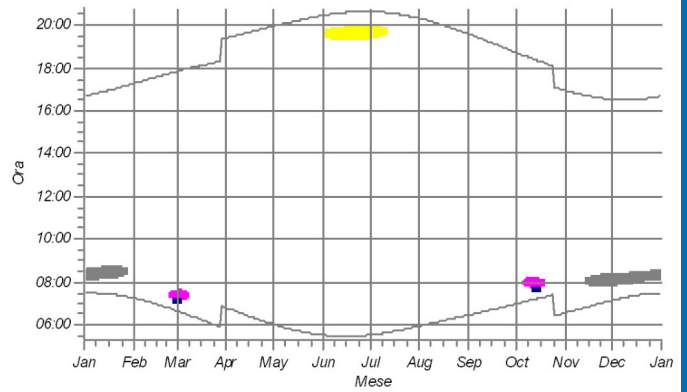
38: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (356)



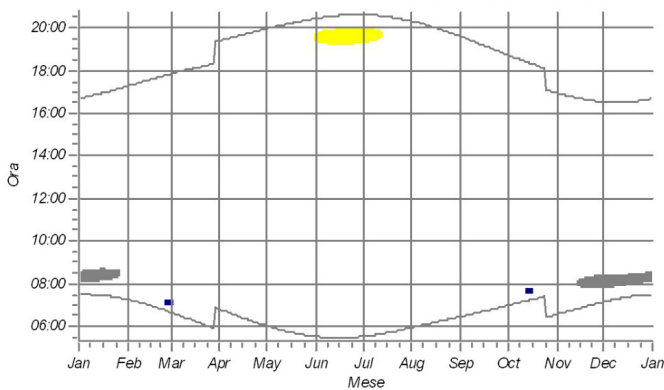
39: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (357)



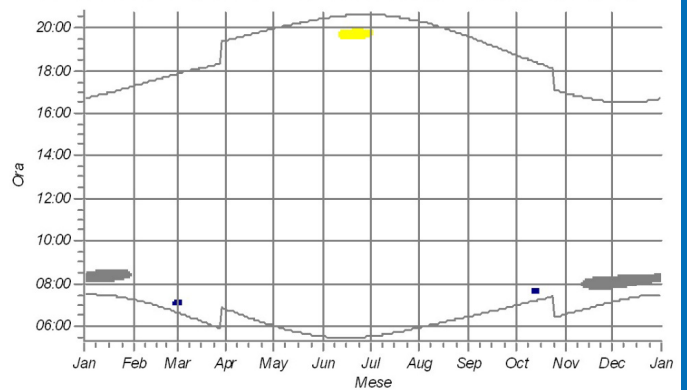
40: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (358)



41: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (321)



42: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (333)



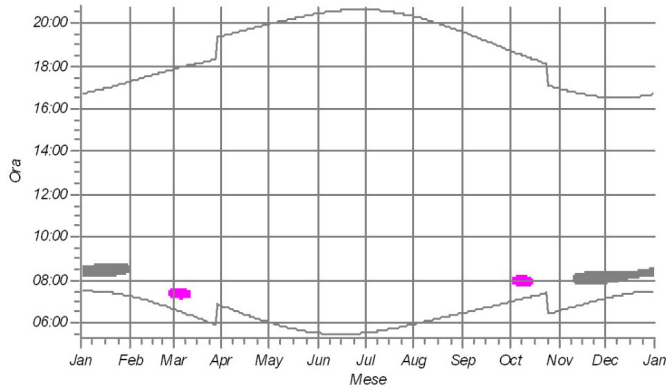
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

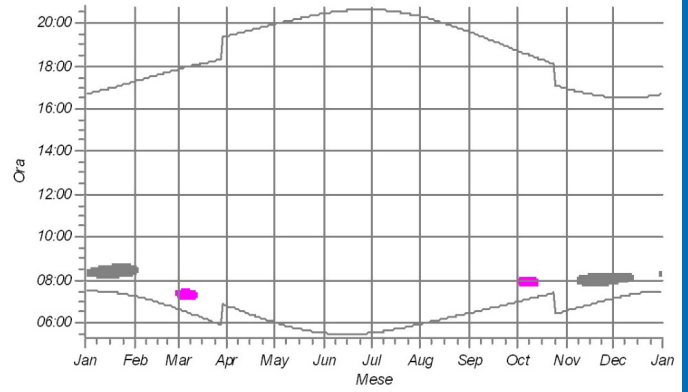


SHADOW - Calendario, grafico

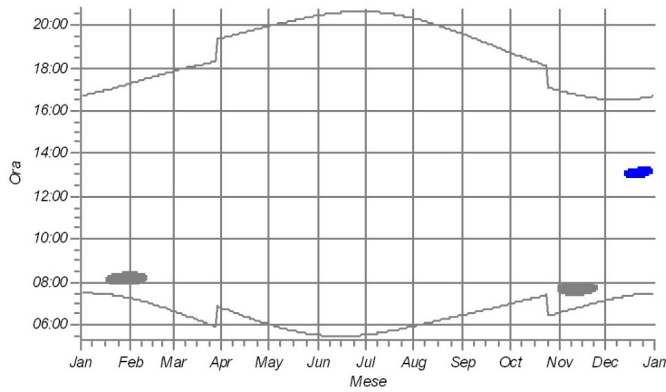
43: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (359)



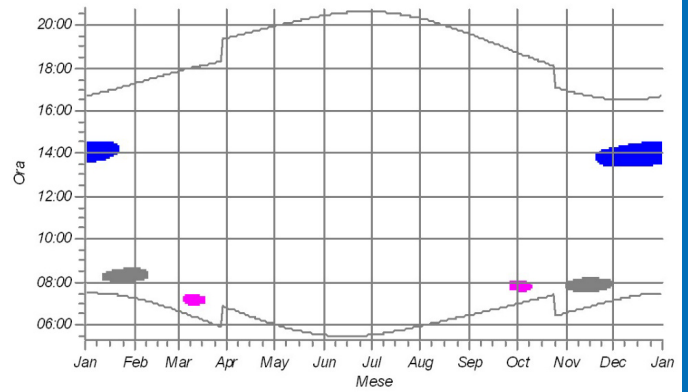
44: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (360)



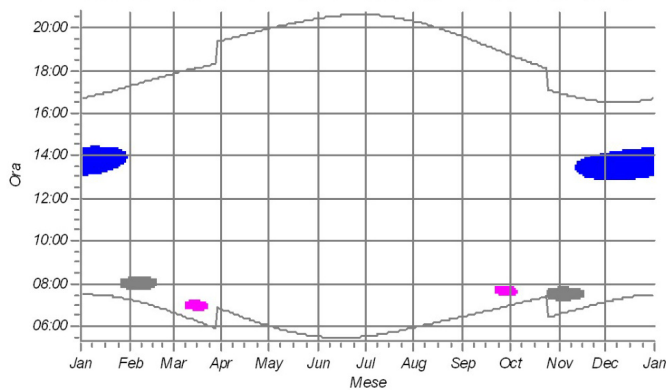
45: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (319)



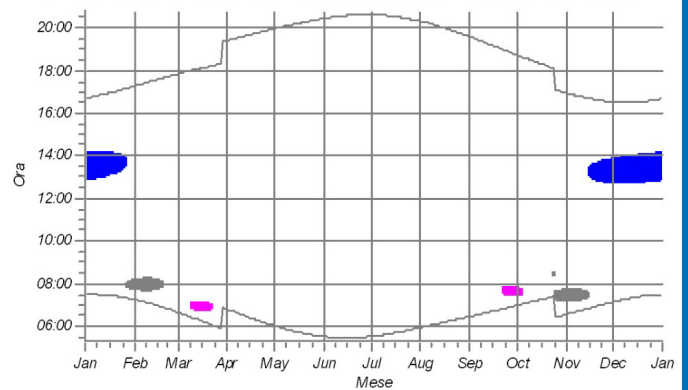
46: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (361)



47: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (362)



48: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (318)



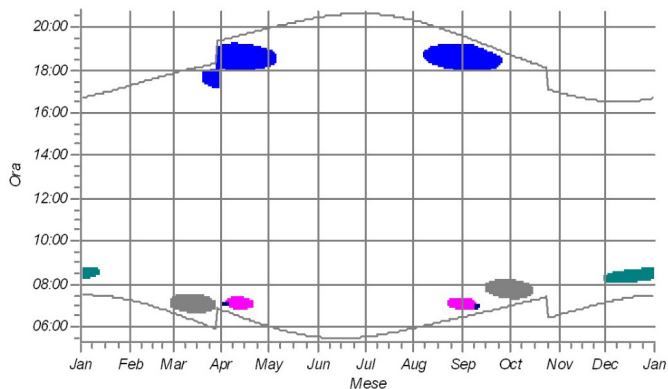
WTG

- WTG 03: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (5)

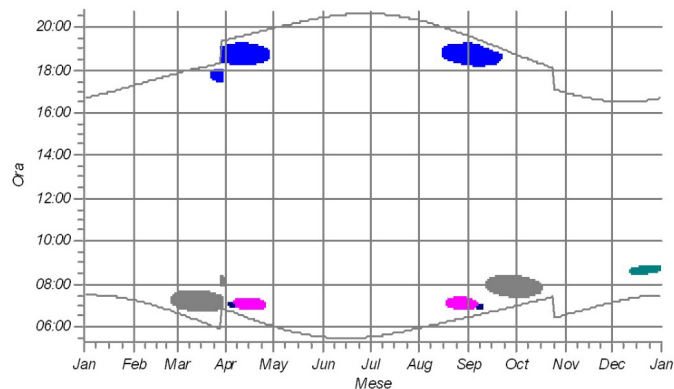


SHADOW - Calendario, grafico

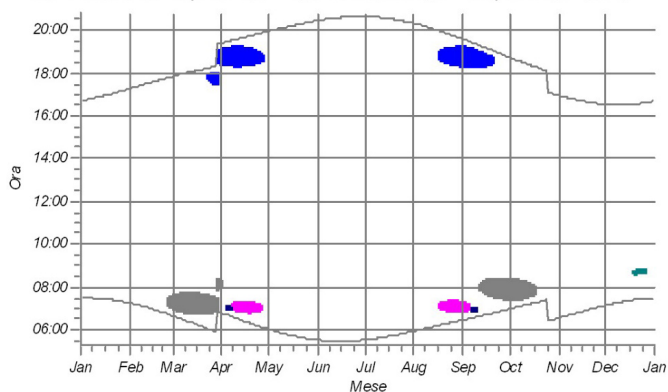
49: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (363)



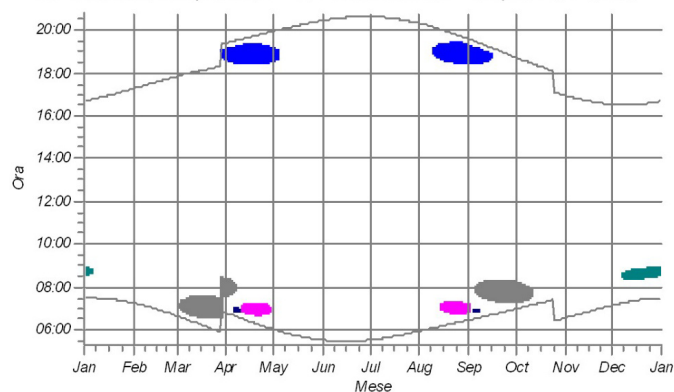
50: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (364)



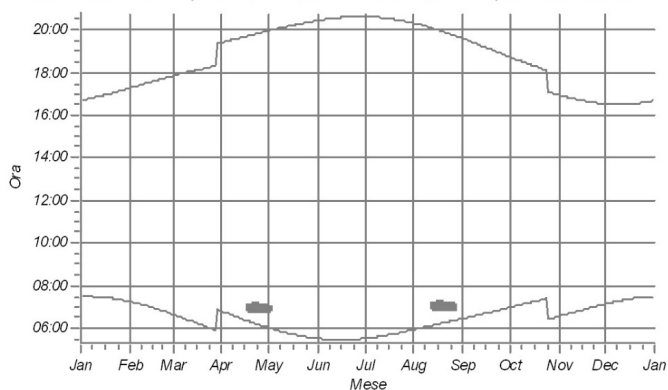
51: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (365)



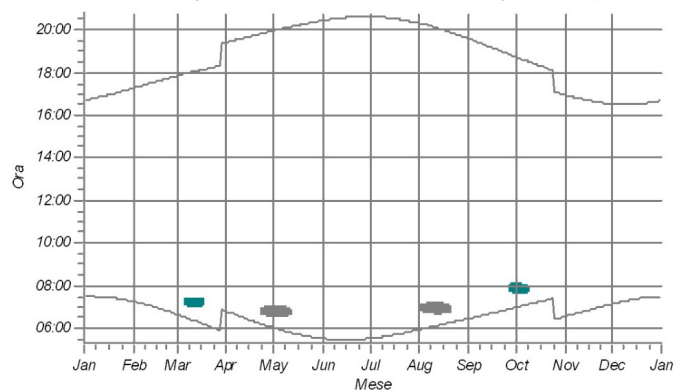
52: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (322)



53: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (366)



54: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (367)



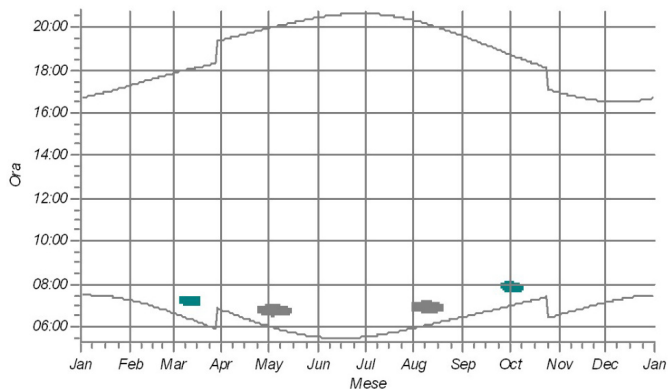
WTG

- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- WTG 06: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (6)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

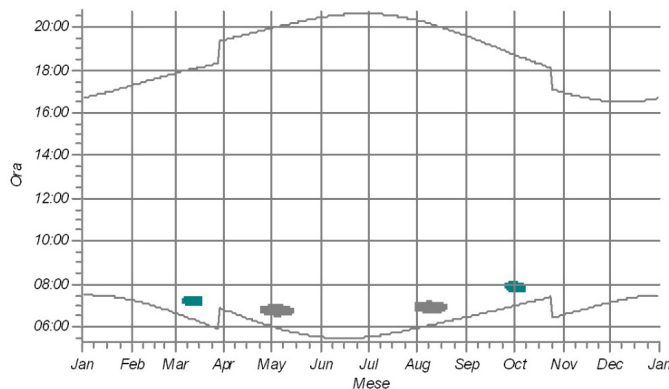


SHADOW - Calendario, grafico

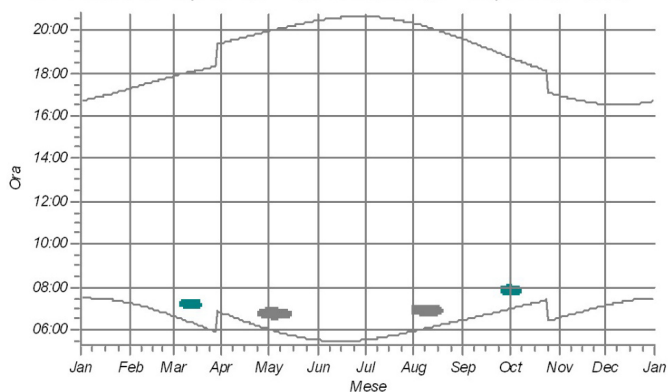
55: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (368)



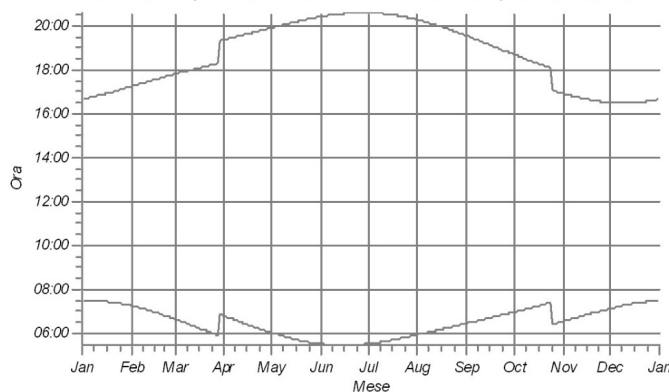
56: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (369)



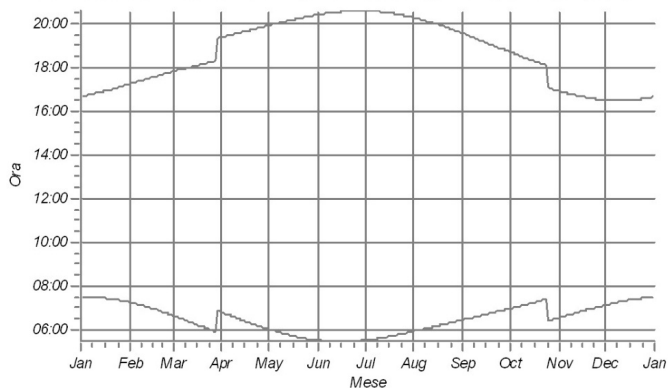
57: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (370)



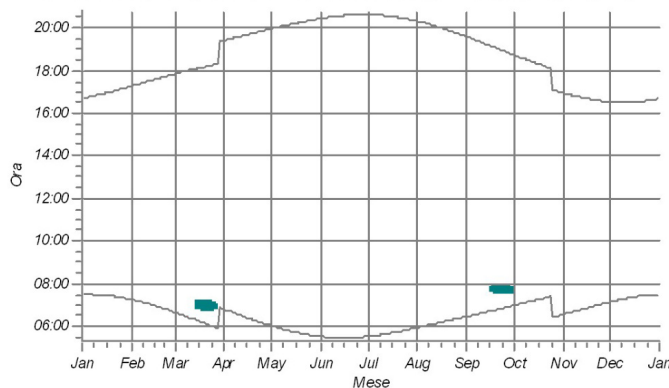
58: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (371)



59: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (372)



60: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (373)



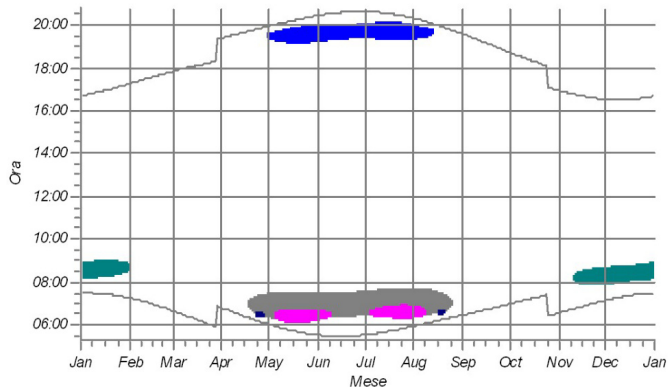
WTG

- WTG 04: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 06: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (6)

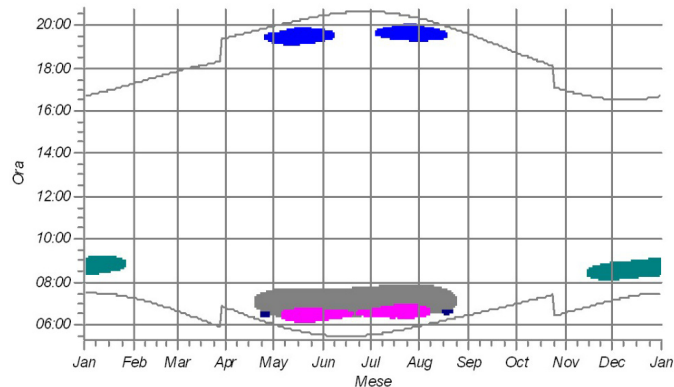


SHADOW - Calendario, grafico

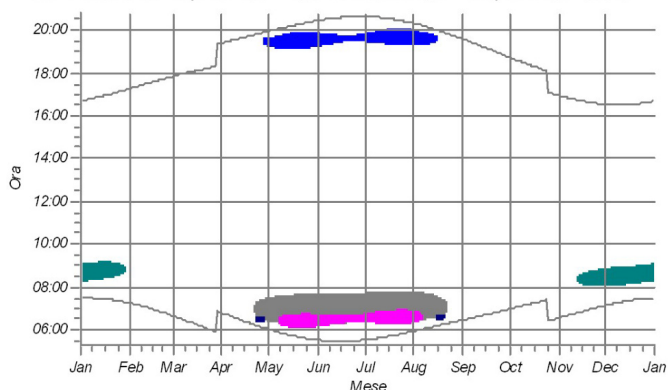
61: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (323)



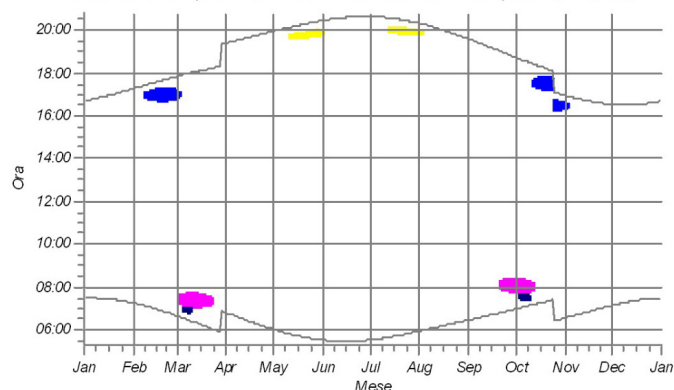
62: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (324)



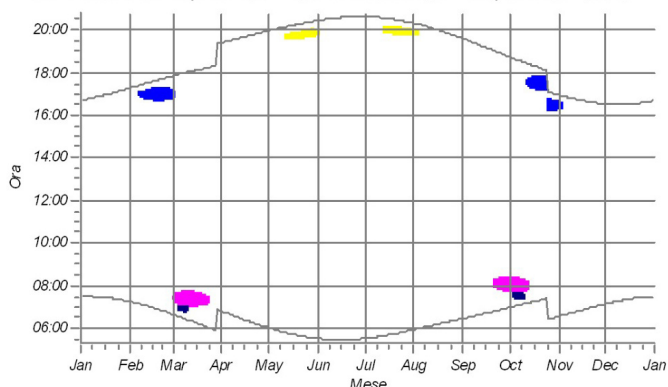
63: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (374)



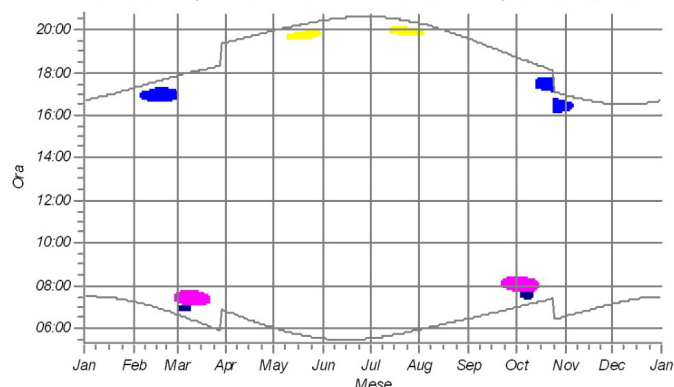
64: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (325)



65: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (375)



66: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (376)



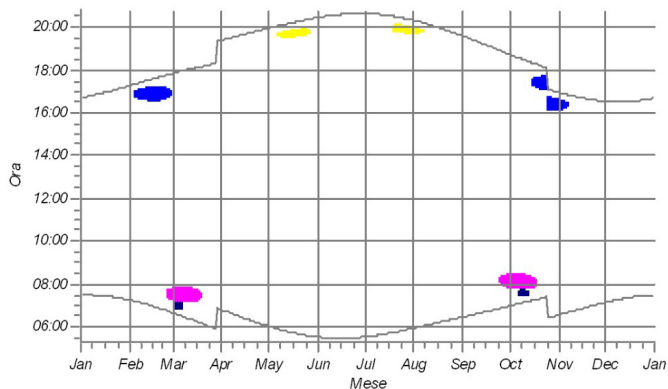
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- WTG 06: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (6)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

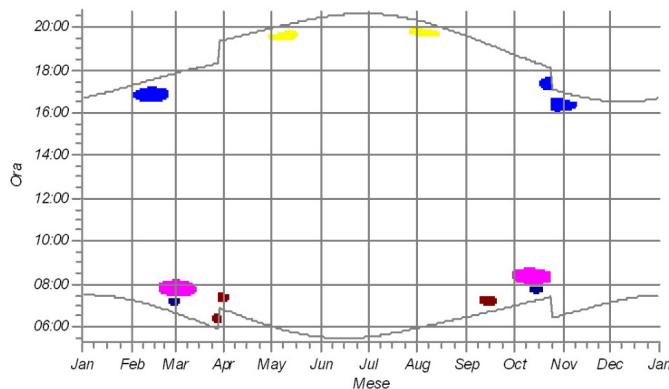


SHADOW - Calendario, grafico

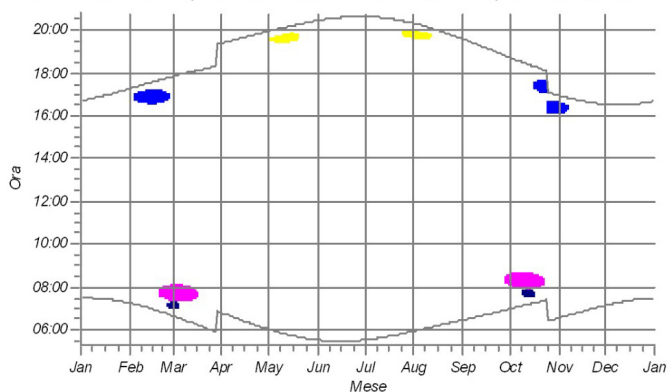
67: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (377)



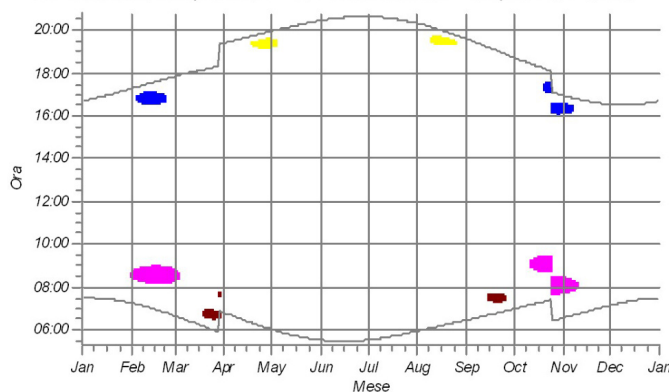
68: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (327)



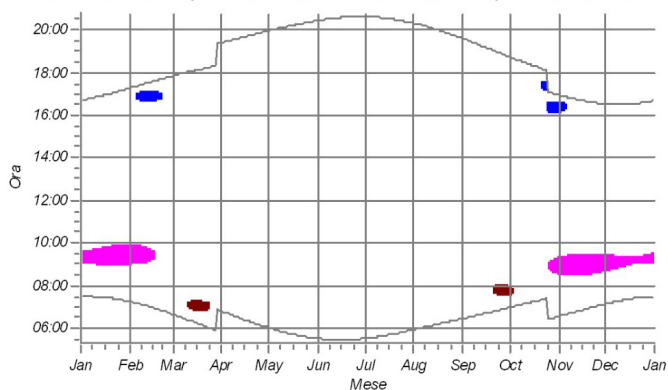
69: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (326)



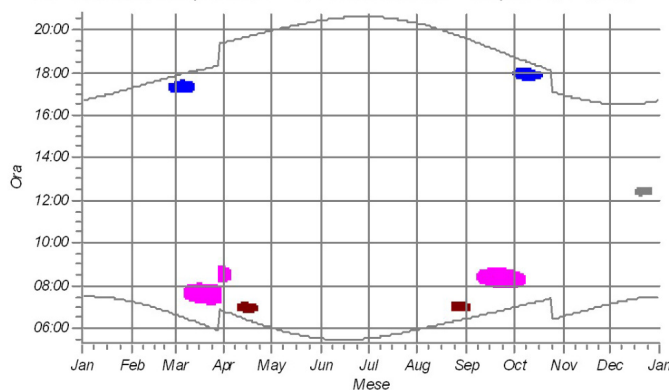
70: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (328)



71: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (329)



72: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (330)



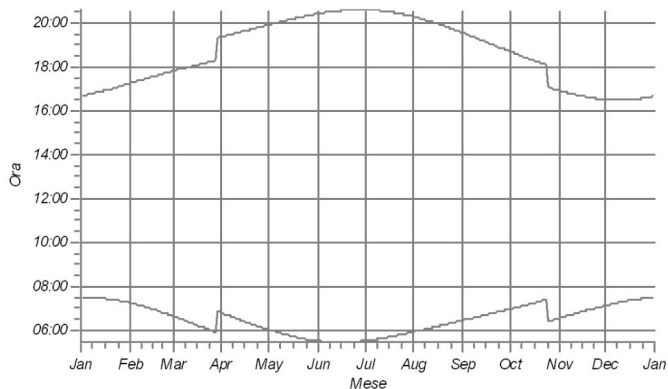
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)
- 8: NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)

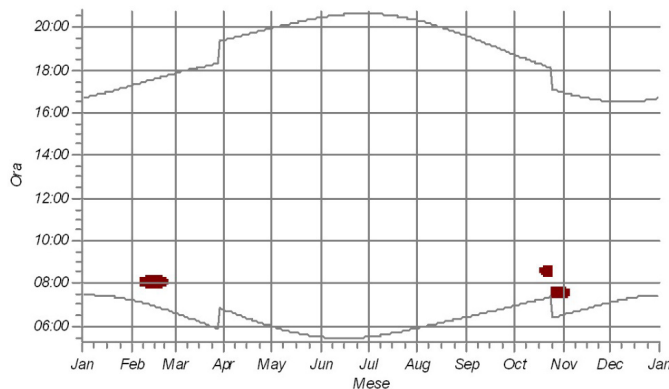


SHADOW - Calendario, grafico

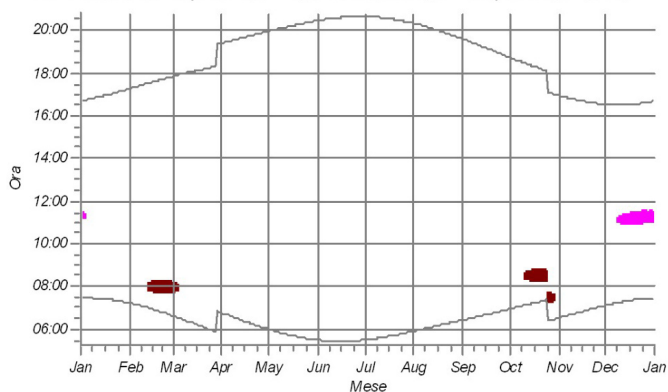
73: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (378)



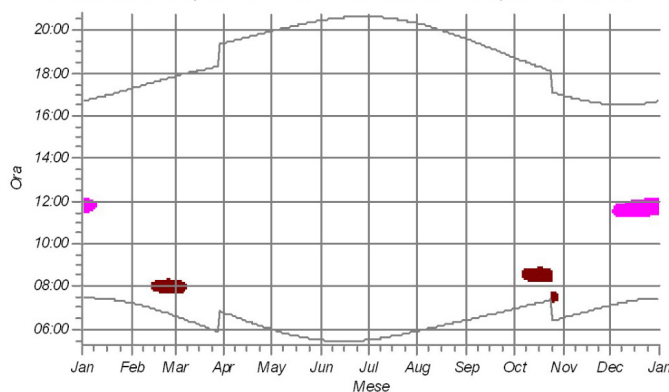
74: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (379)



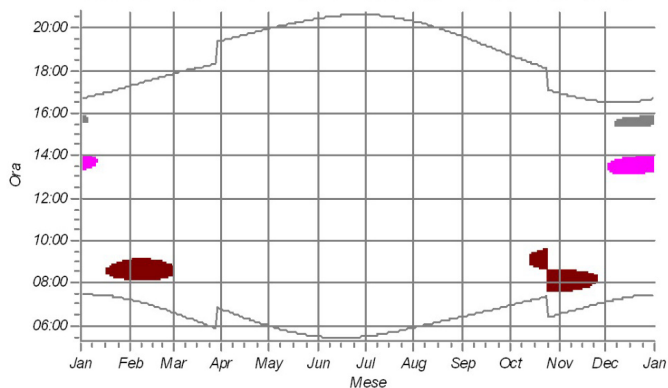
75: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (380)



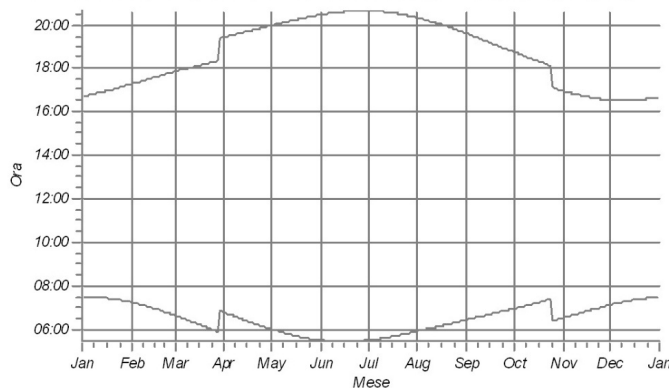
76: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (381)



77: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (382)



78: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (398)



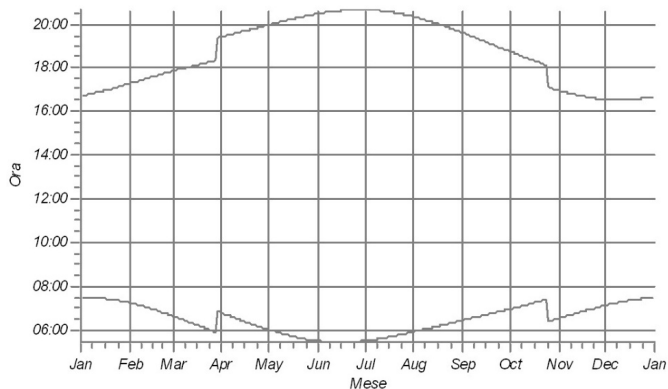
WTG

- WTG 04: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (5)
- 8: NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)

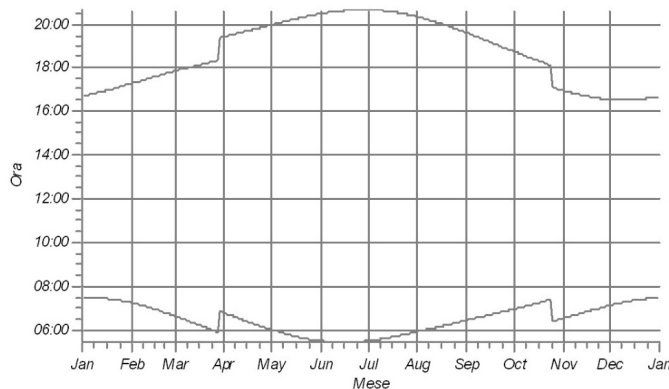


SHADOW - Calendario, grafico

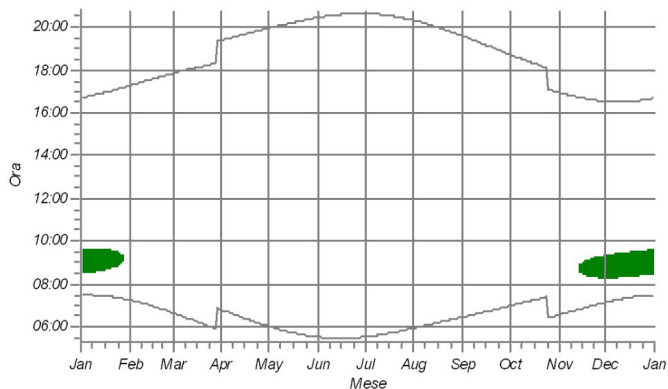
79: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (399)



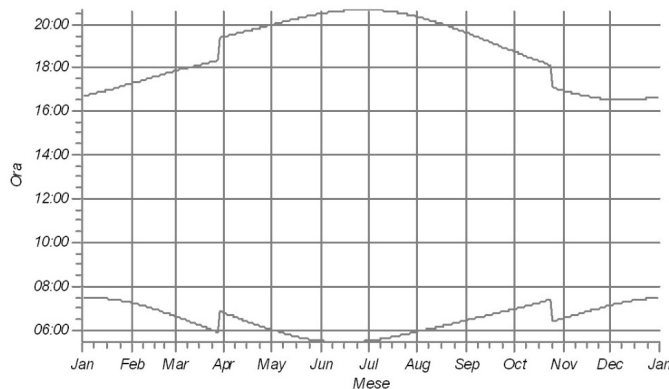
80: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (384)



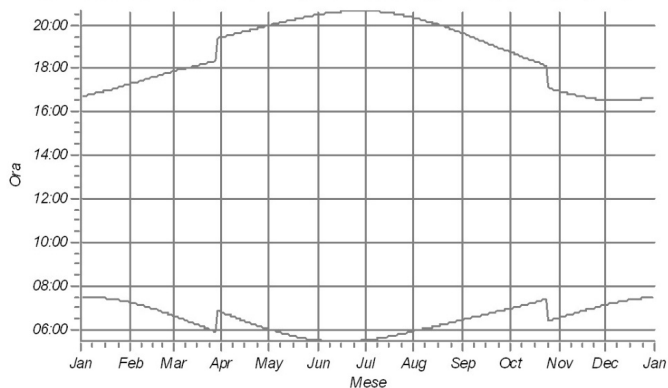
81: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (400)



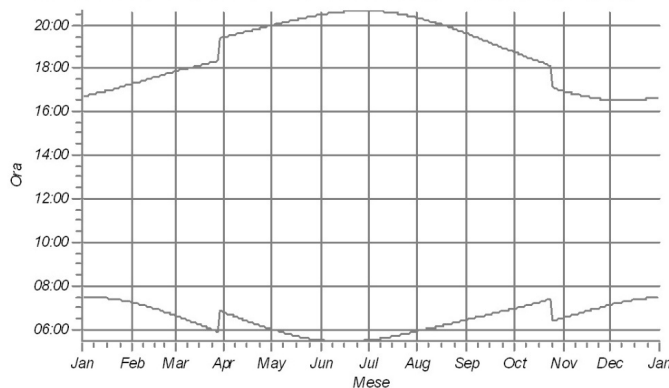
82: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (383)



83: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (401)



84: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (385)



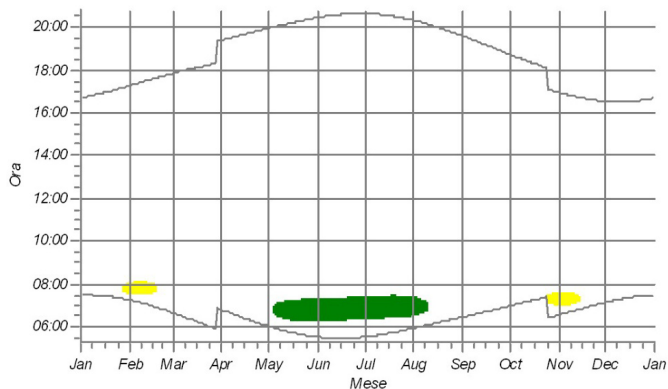
WTG

WTG 01: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (1)

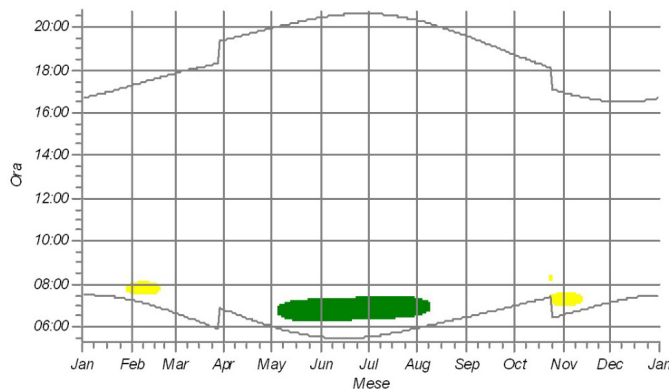


SHADOW - Calendario, grafico

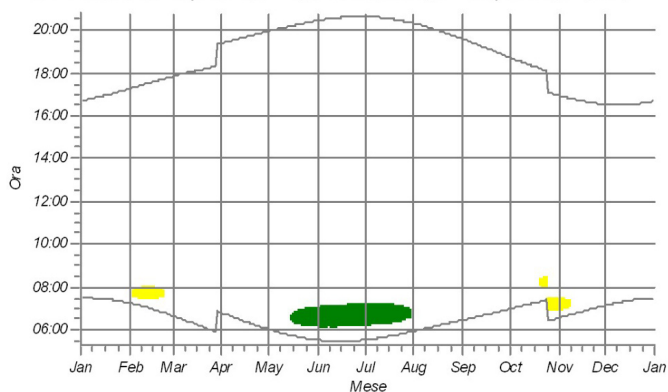
85: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (386)



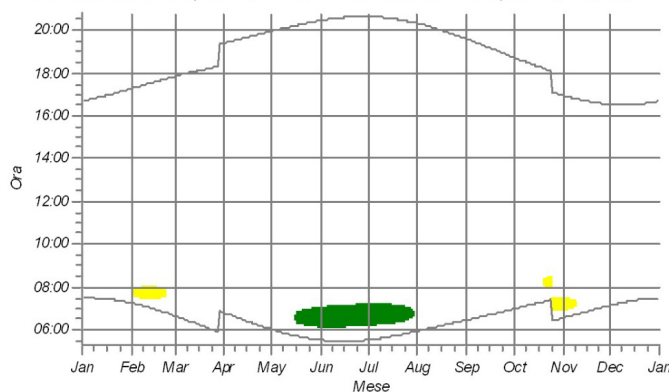
86: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (387)



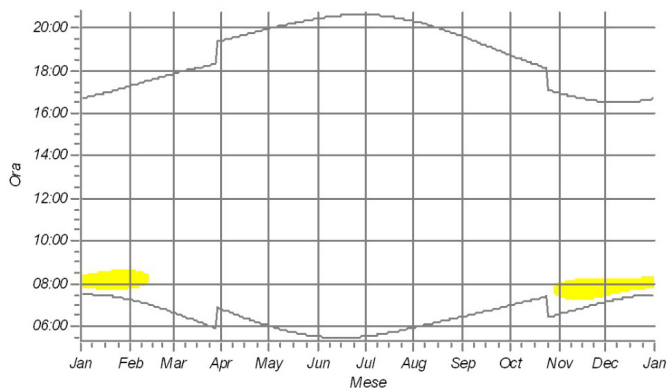
87: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (402)



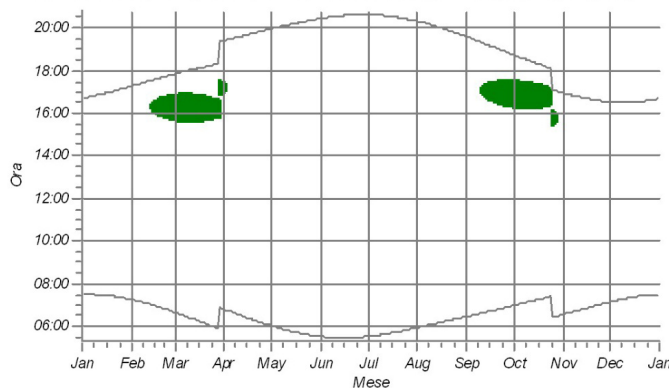
88: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (388)



89: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (389)



90: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (390)



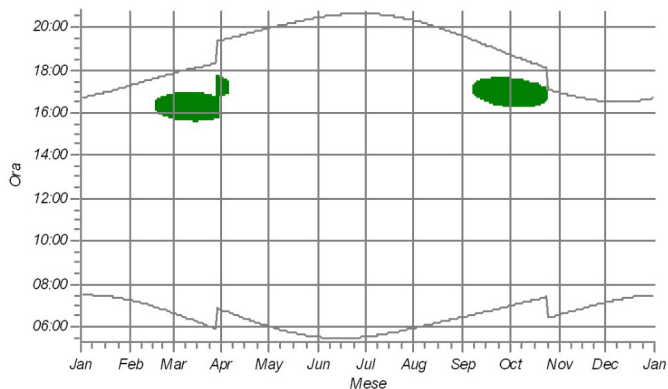
WTG

- WTG 01: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (1)
- WTG 02: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (2)

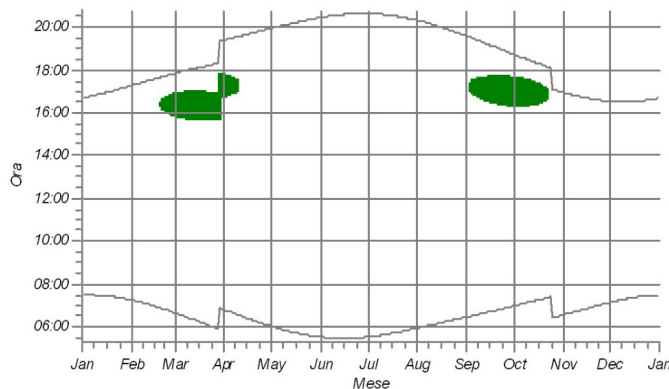


SHADOW - Calendario, grafico

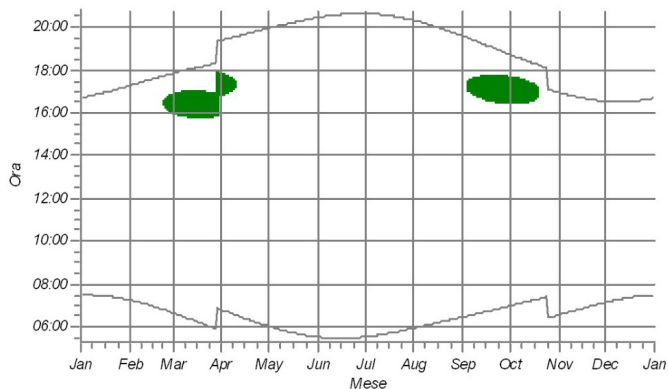
91: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (403)



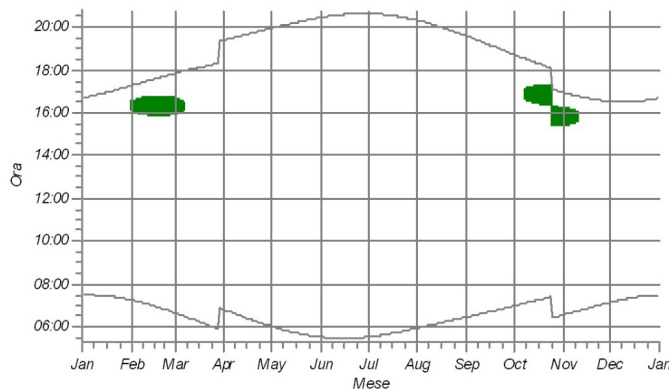
92: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (391)



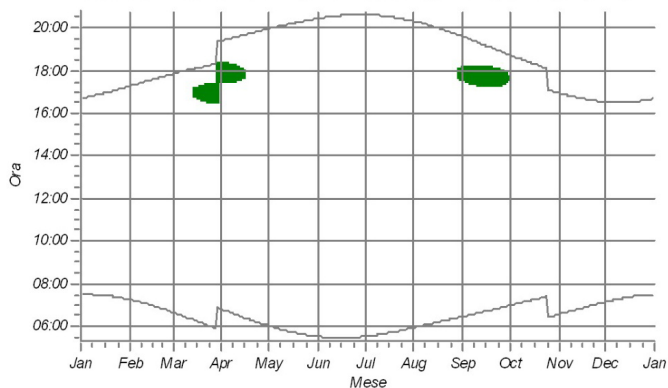
93: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (392)



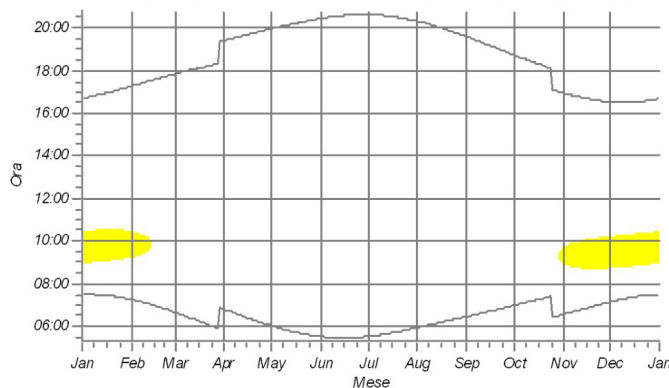
94: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (404)



95: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (405)



96: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (406)



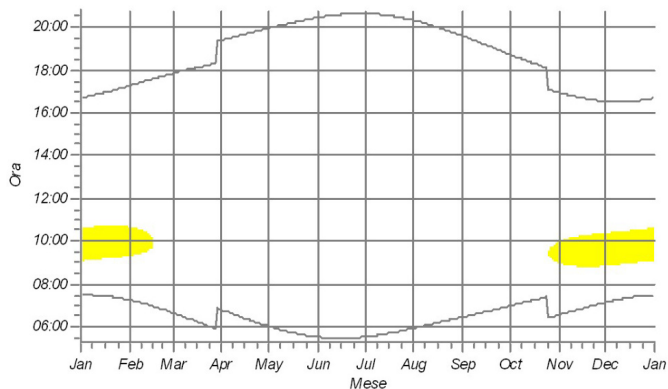
WTG

- WTG 01: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (1)
- WTG 02: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (2)

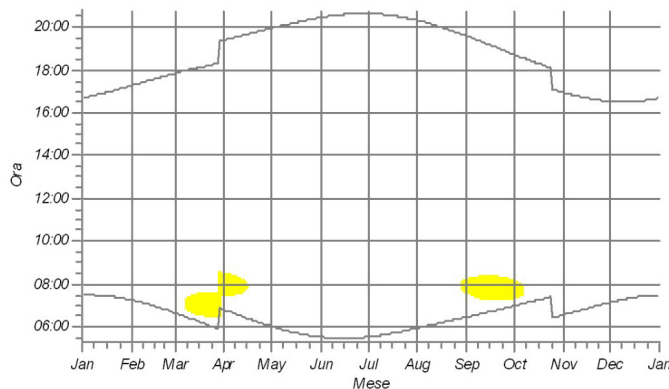


SHADOW - Calendario, grafico

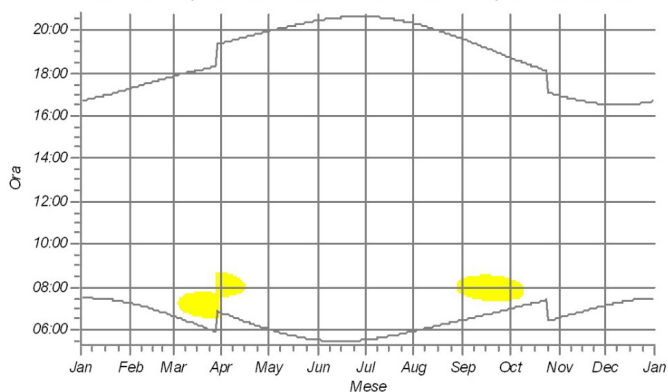
97: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (393)



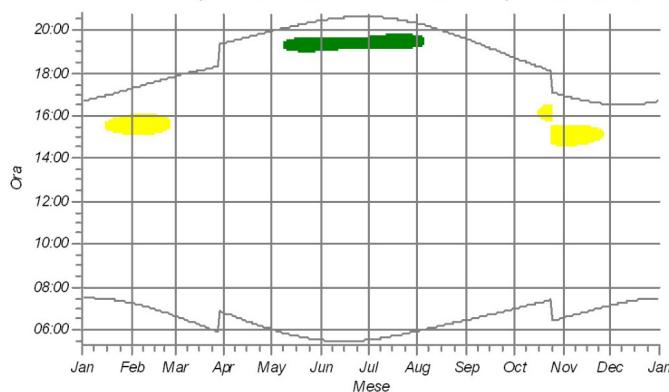
98: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (394)



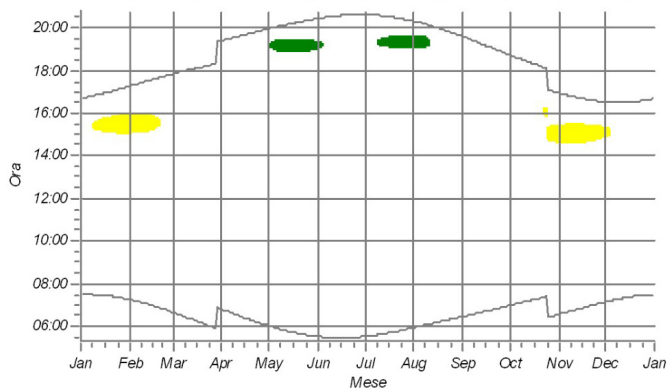
99: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (395)



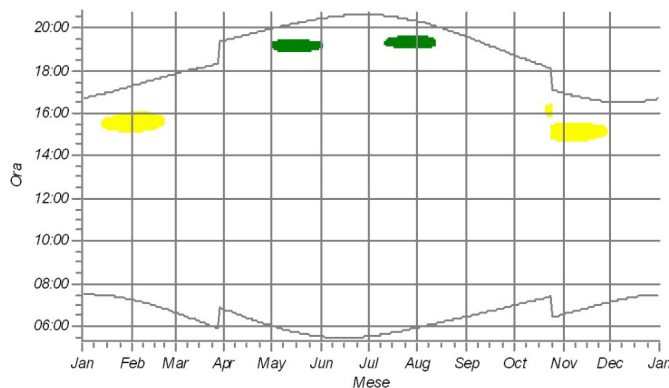
100: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (396)



101: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (407)



102: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (408)



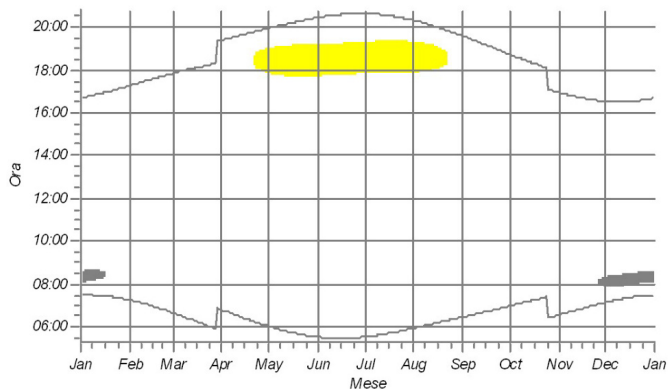
WTG

- WTG 01: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (1)
- WTG 02: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (2)

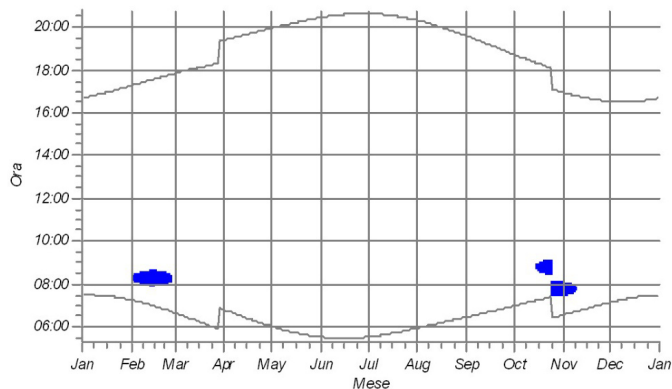


SHADOW - Calendario, grafico

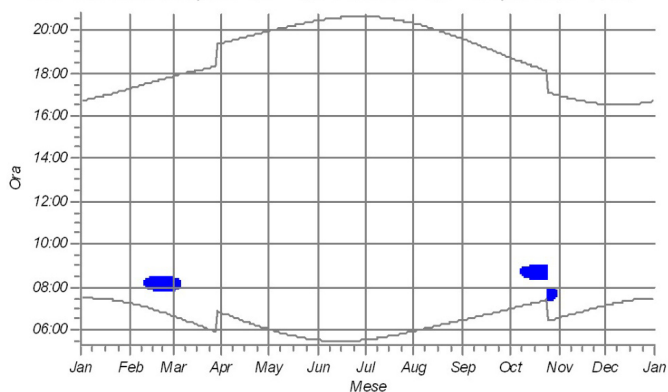
103: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (409)



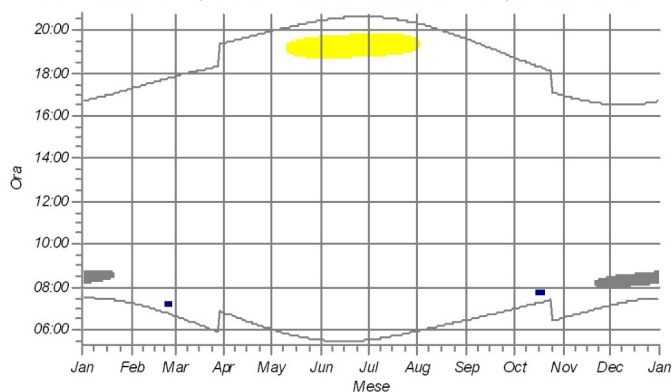
104: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (410)



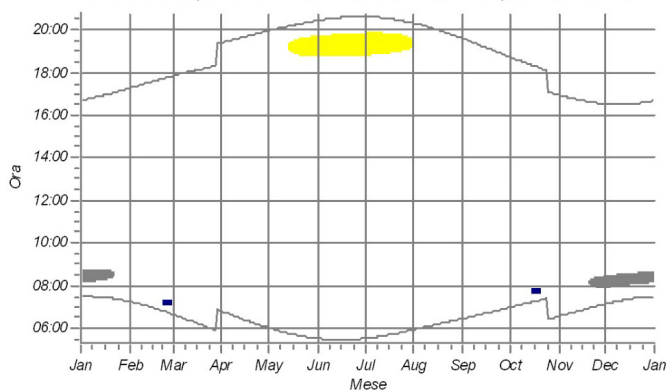
105: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (411)



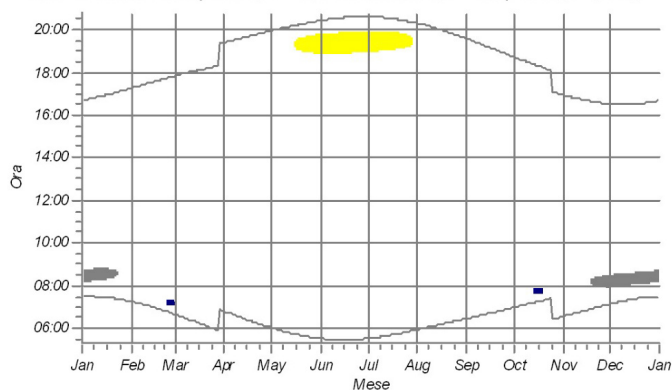
106: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (412)



107: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (397)



108: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (413)



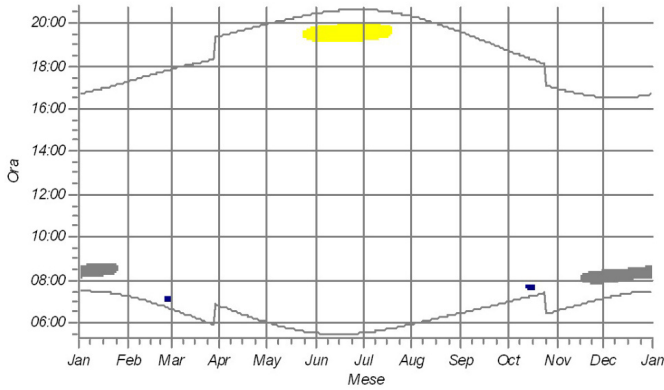
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

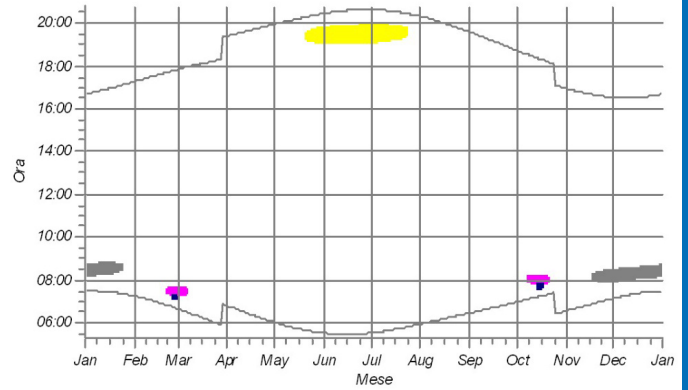


SHADOW - Calendario, grafico

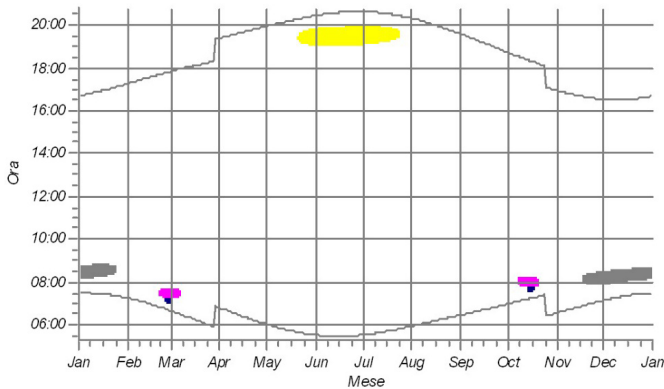
109: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (414)



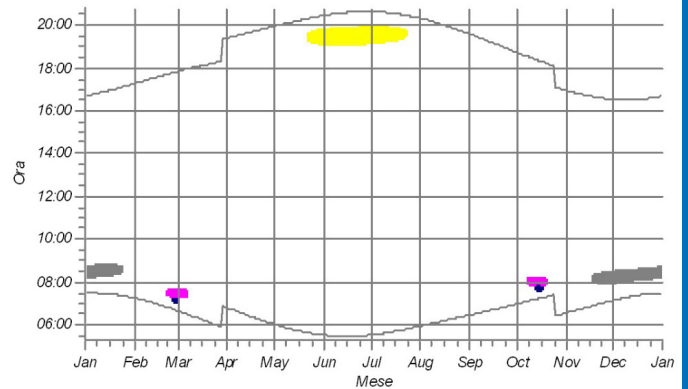
110: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (415)



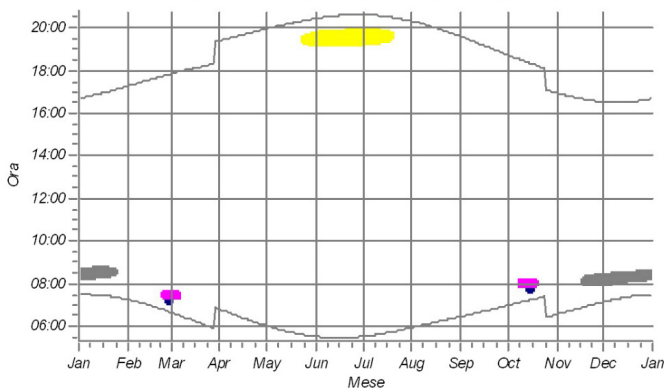
111: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (416)



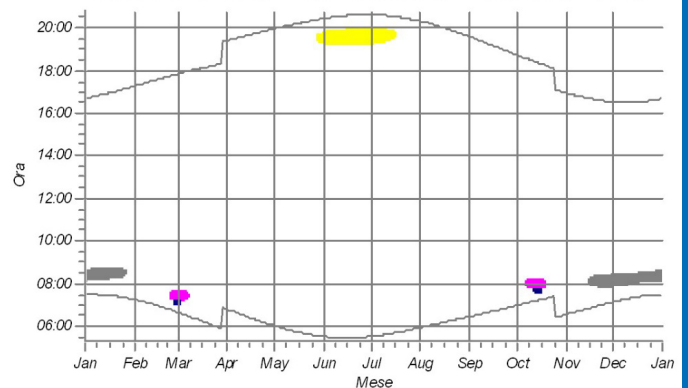
112: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (417)



113: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (418)



114: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (419)



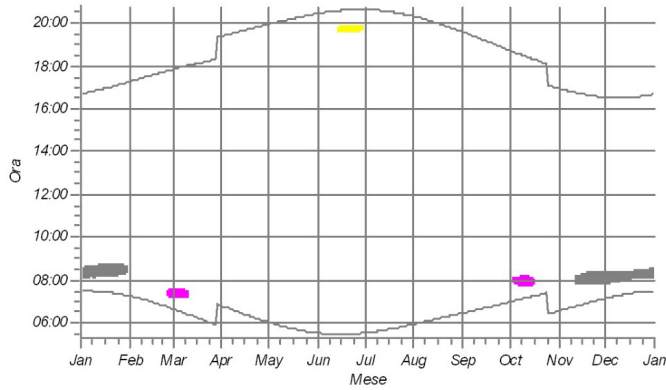
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

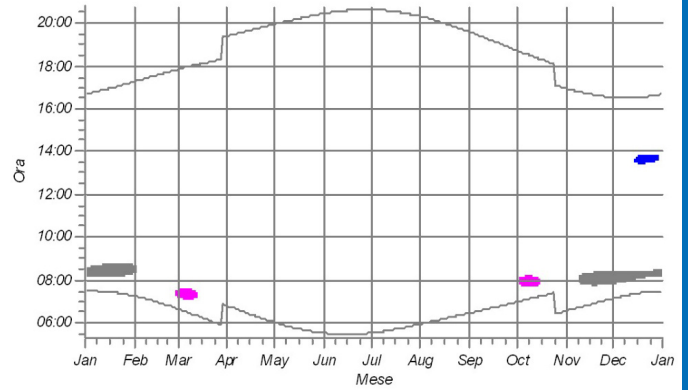


SHADOW - Calendario, grafico

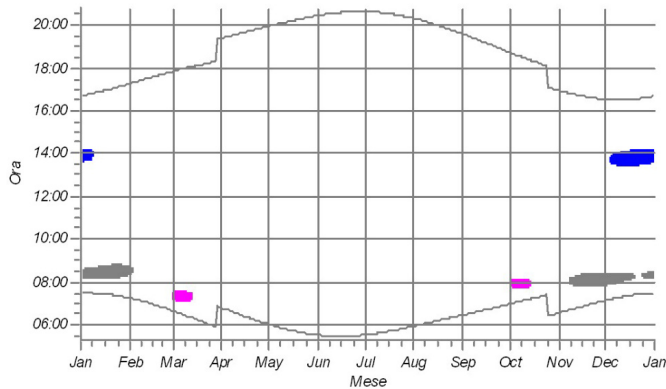
115: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (420)



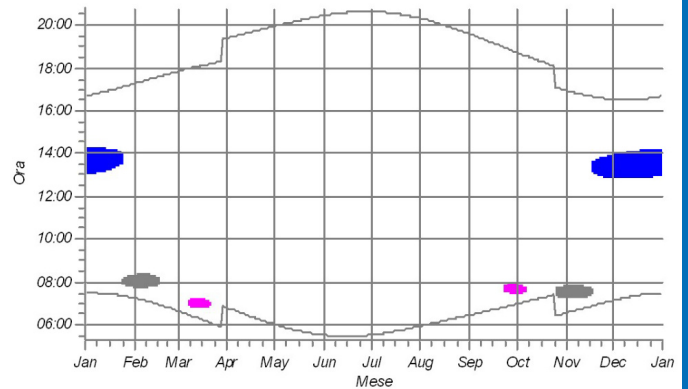
116: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (421)



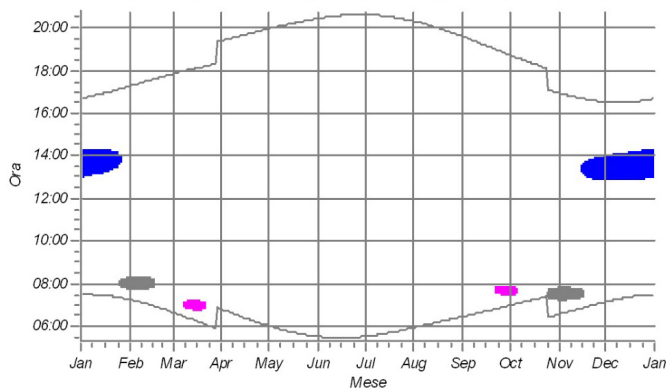
117: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (422)



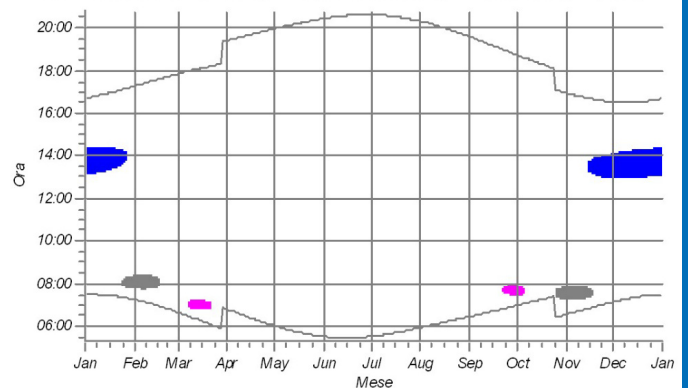
118: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (423)



119: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (424)



120: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (425)



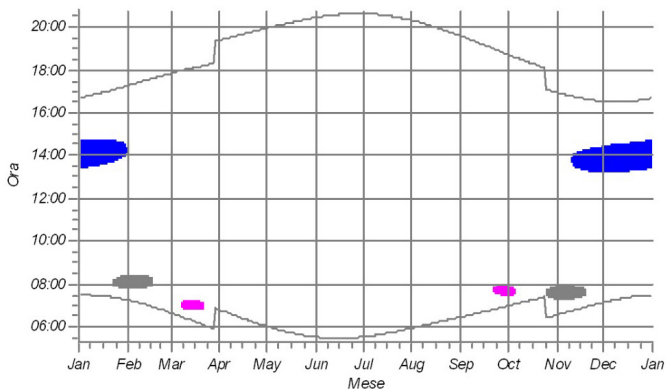
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (5)

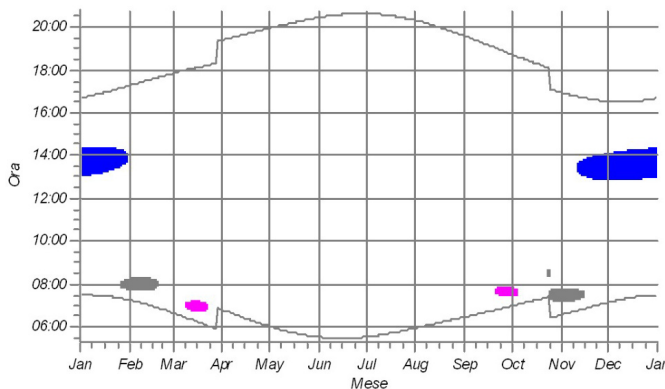


SHADOW - Calendario, grafico

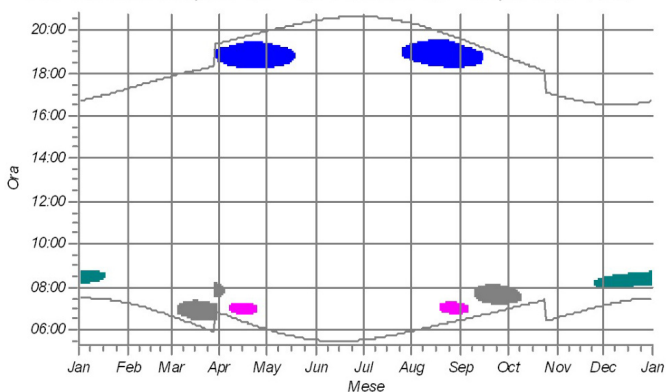
121: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (426)



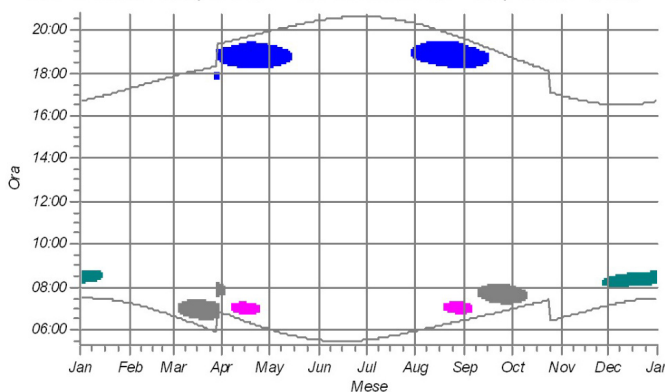
122: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (427)



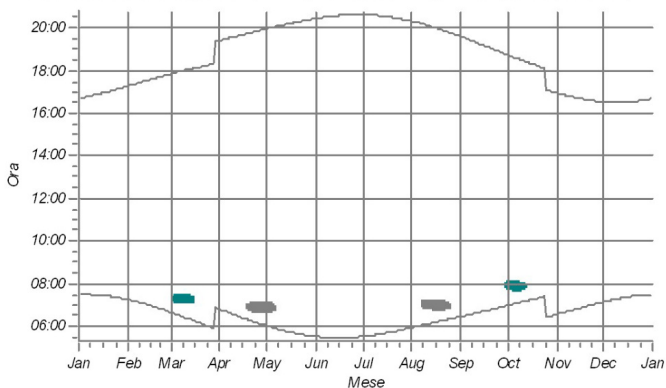
123: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (428)



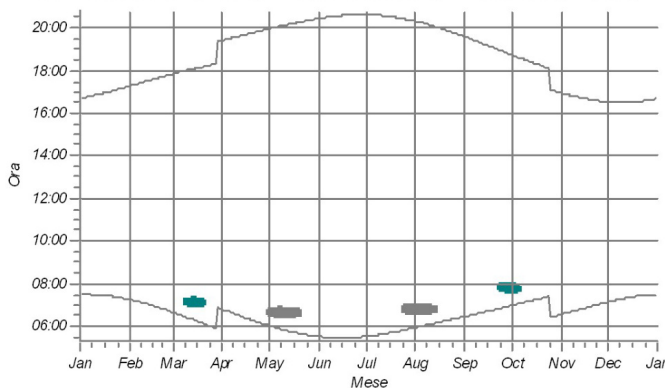
124: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (429)



125: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (430)



126: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (431)



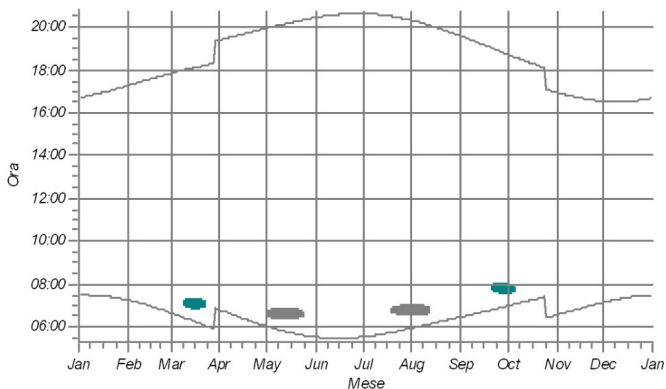
WTG

- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- WTG 06: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (6)

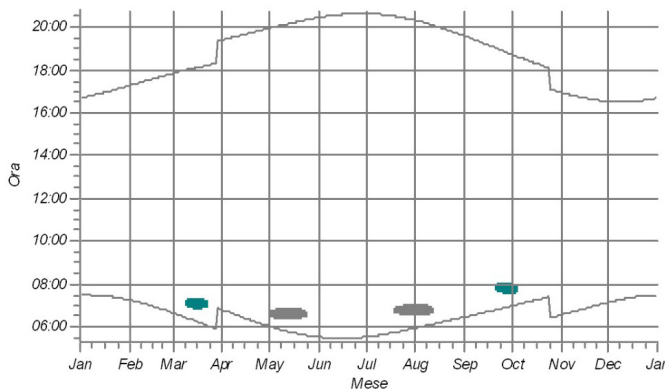


SHADOW - Calendario, grafico

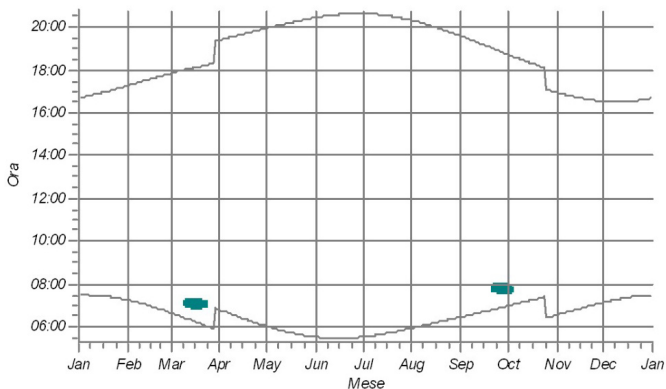
127: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (432)



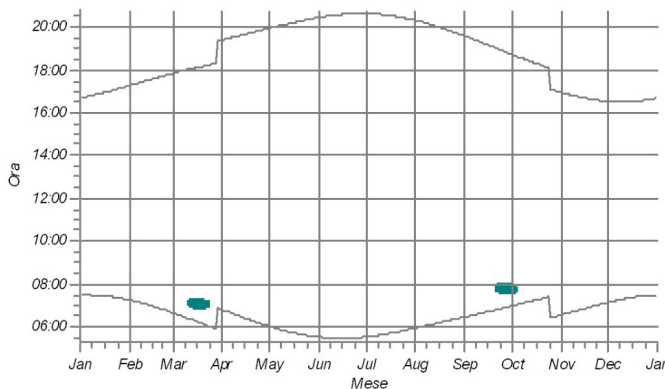
128: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (433)



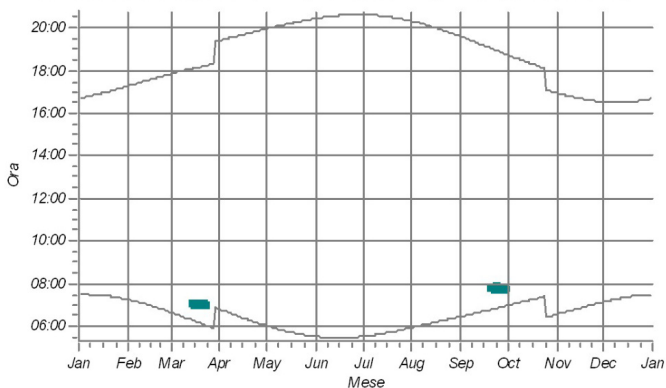
129: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (434)



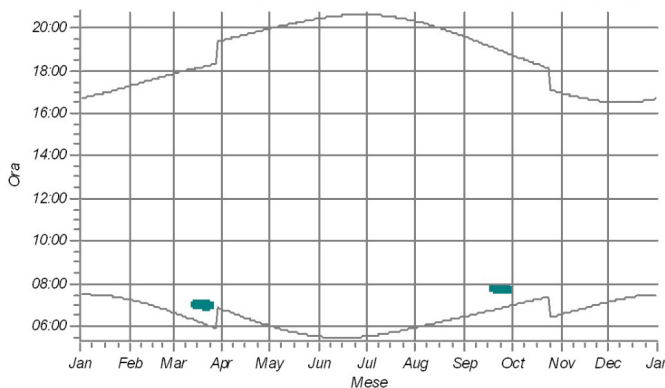
130: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (435)



131: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (436)



132: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (437)



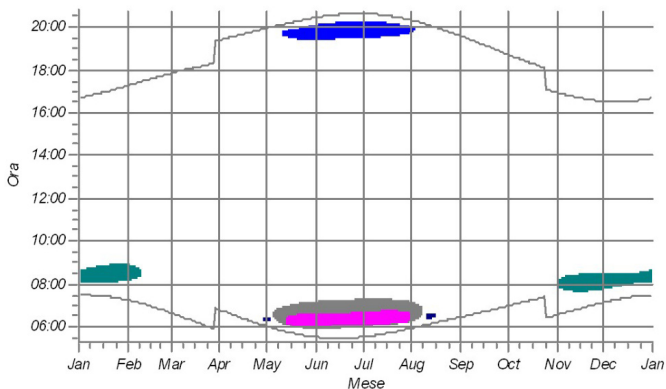
WTG

- WTG 04: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 06: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (6)

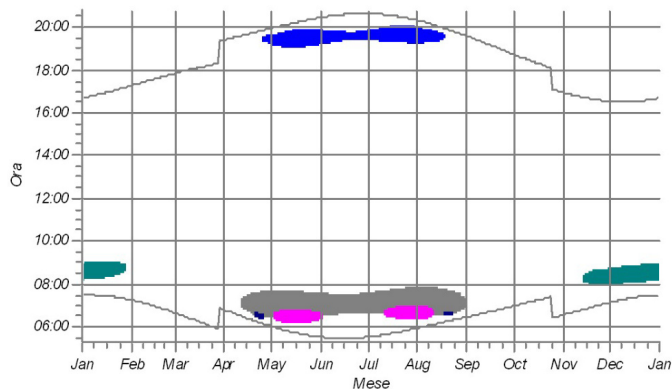


SHADOW - Calendario, grafico

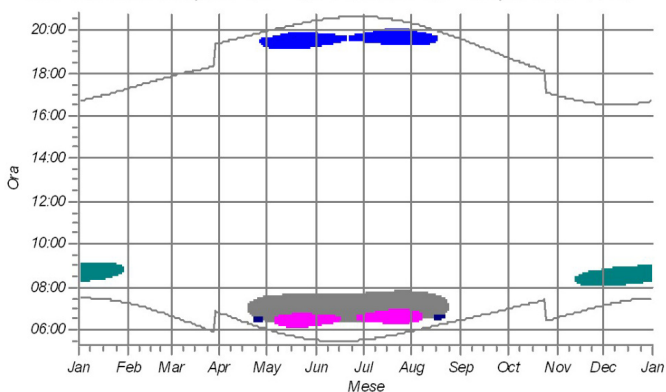
133: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (438)



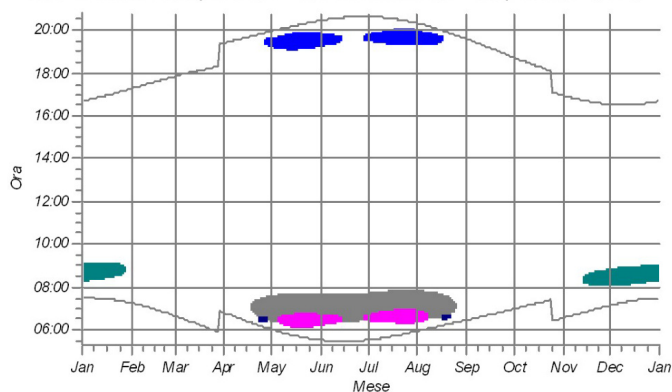
134: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (439)



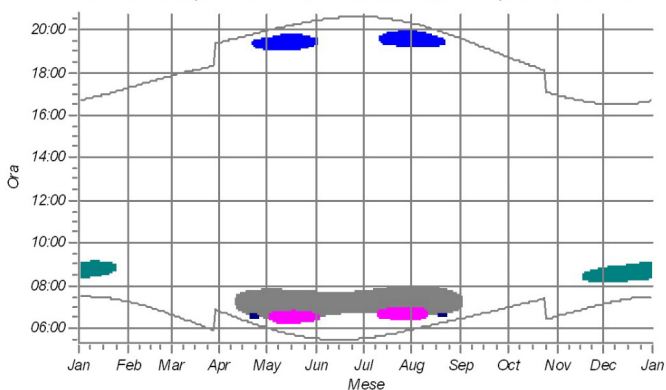
135: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (440)



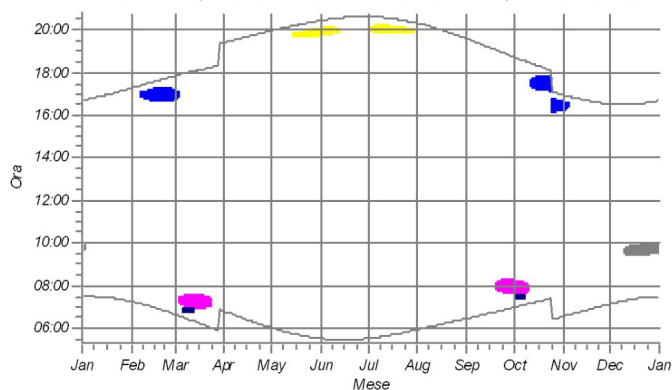
136: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (441)



137: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (442)



138: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (443)



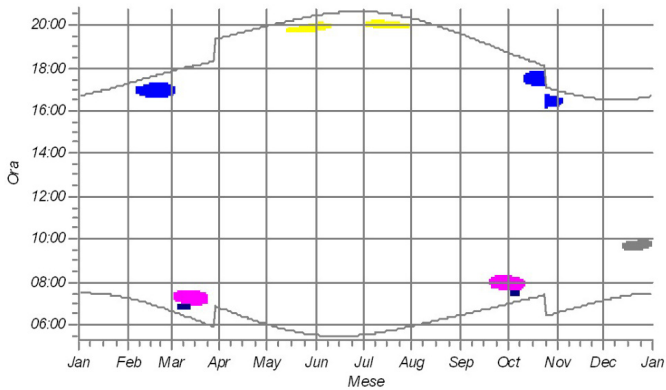
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- WTG 06: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (6)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

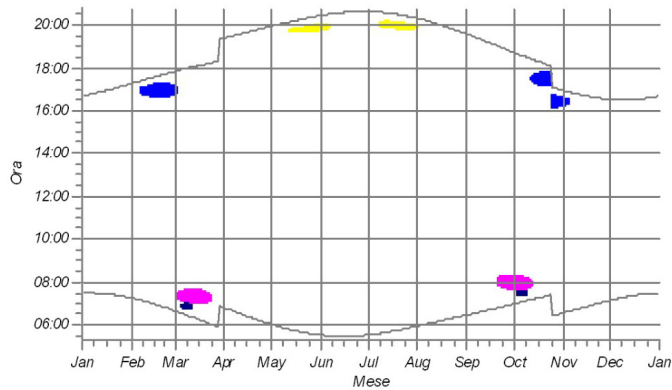


SHADOW - Calendario, grafico

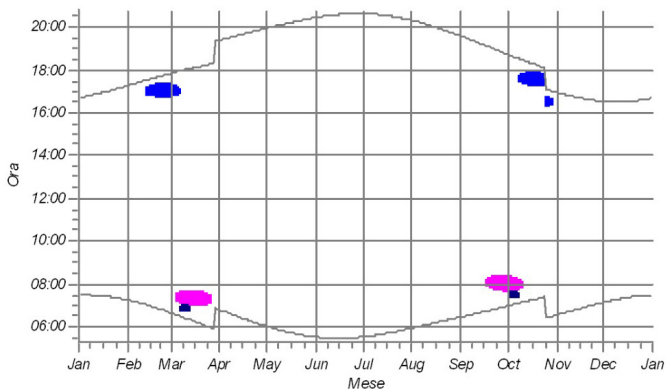
139: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (444)



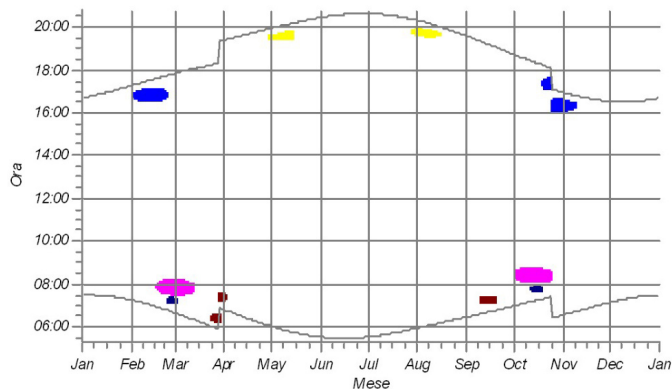
140: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (445)



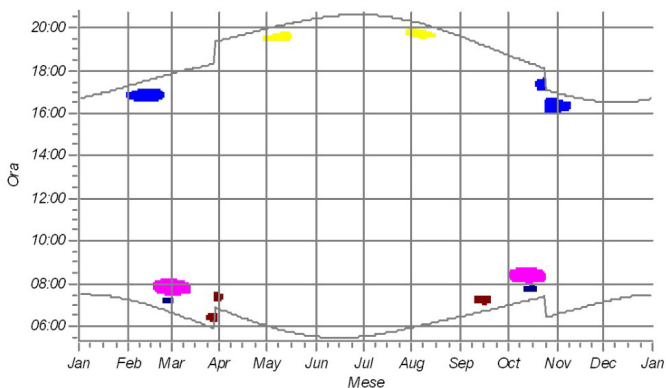
141: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (446)



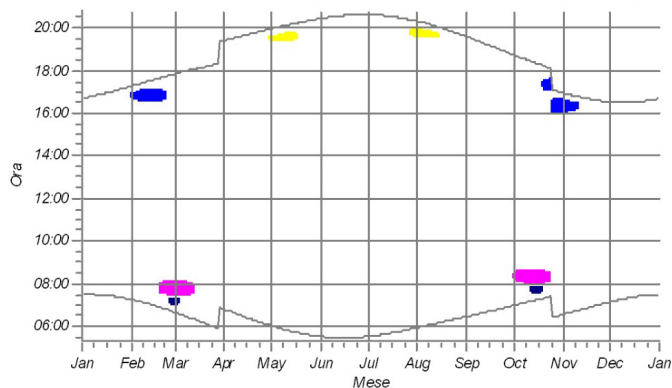
142: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (447)



143: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (448)



144: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (449)



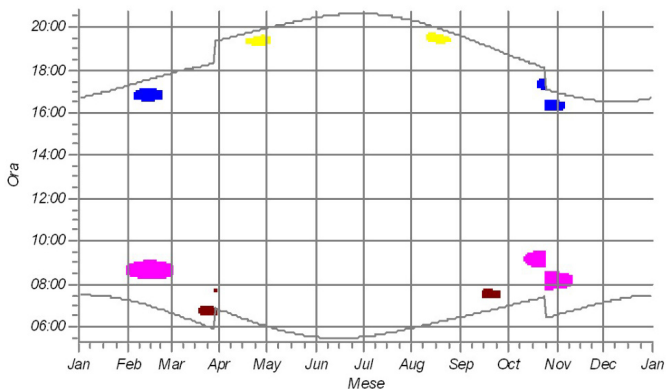
WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 04: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)
- WTG 05: VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)
- 8: NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)

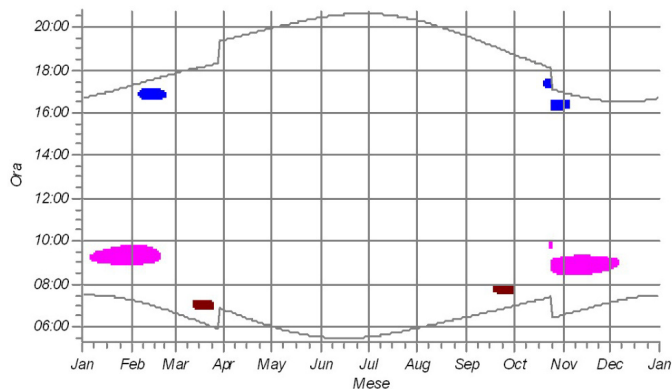


SHADOW - Calendario, grafico

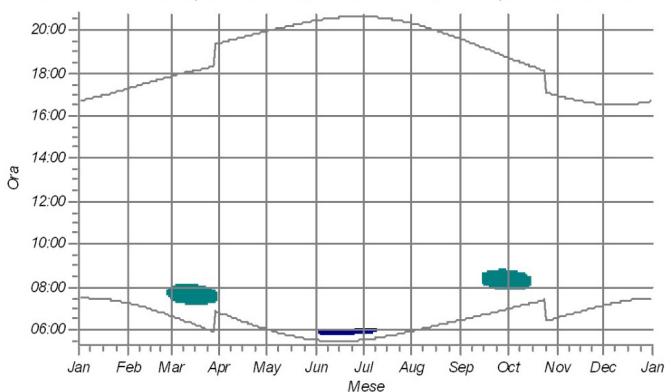
145: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (450)



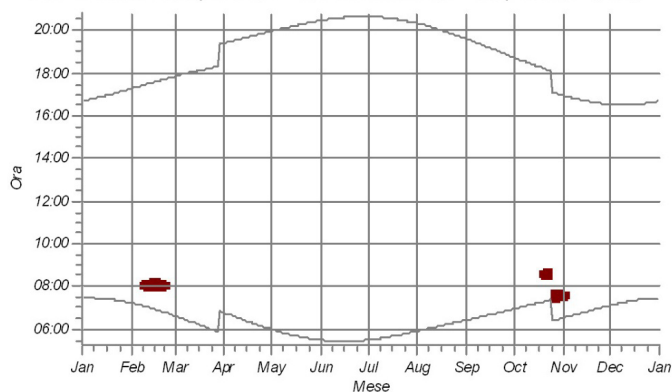
146: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (451)



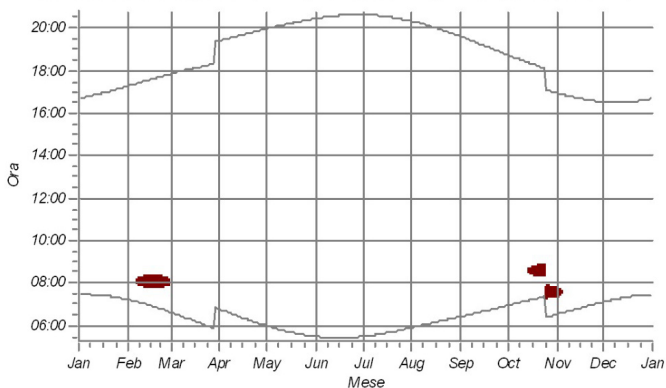
147: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (452)



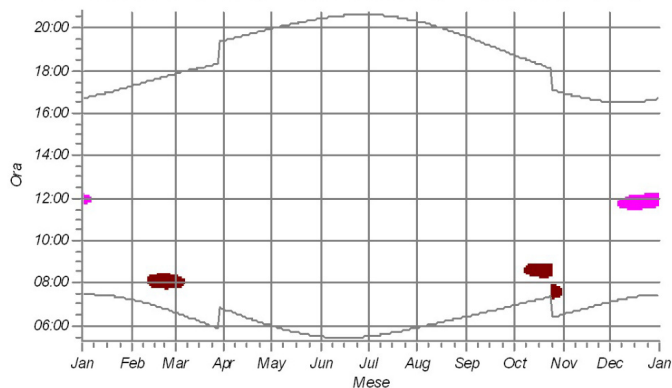
148: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (453)



149: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (454)



150: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (455)



WTG

- WTG 02: VESTAS V150-6.0 6000 150.0 !0! hub: 125,0 m (TOT: 200,0 m) (2)
- WTG 03: VESTAS V150-6.0 6000 150.0 !0! hub: 125,0 m (TOT: 200,0 m) (3)
- WTG 05: VESTAS V150-6.0 6000 150.0 !0! hub: 125,0 m (TOT: 200,0 m) (5)
- WTG 06: VESTAS V150-6.0 6000 150.0 !0! hub: 125,0 m (TOT: 200,0 m) (6)
- 7: 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)
- 8: NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)

Progetto:

Riccia

Utente autorizzato:

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Schweizer Straße 3a

DE-01069 Dresden

+49 (0) 351 / 211 83 - 46

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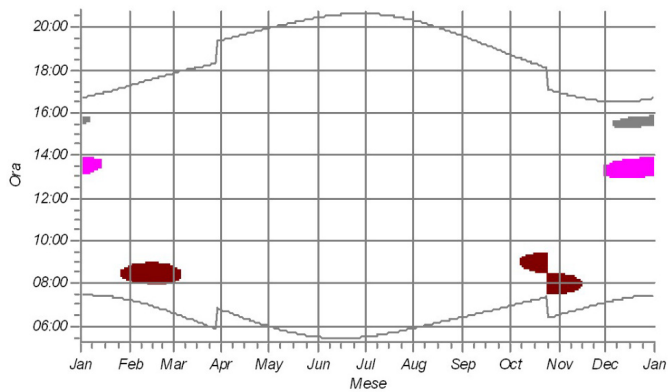
Redatto il:

26/05/2022 15:09/3.5.576

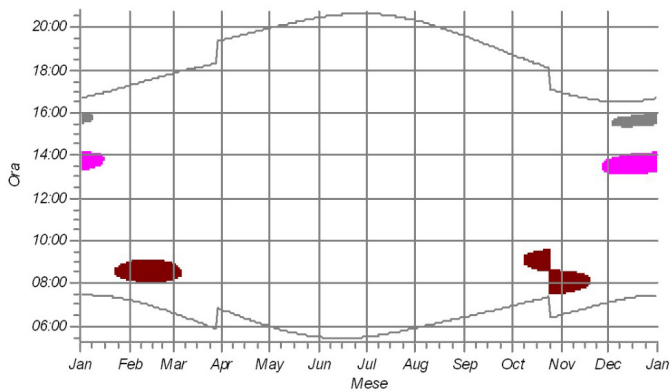


SHADOW - Calendario, grafico




151: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (456)



152: Shadow Receptor: 0,1 × 0,1 Azimuth: 0,0° Slope: 90,0° (457)



WTG

-  WTG 04: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (4)
-  WTG 05: VESTAS V150-6.0 6000 150.0 IO! hub: 125,0 m (TOT: 200,0 m) (5)
-  8: NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)



SHADOW - Calendario per WTG

WTG: WTG 01 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (1)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:28 08:16-09:32/76 16:41	07:14 16:12-16:26/14 17:16 08:45-09:10/25	06:37 15:30-16:52/82 17:51	06:46 16:50-18:23/93 19:25	06:00 06:42-08:02/80 19:58	05:30 19:05-19:38/33 20:28 06:13-07:56/103
2	07:28 08:17-09:32/75 16:42	07:13 16:09-16:30/21 17:17 08:49-09:06/17	06:36 15:30-16:53/83 17:52	06:44 16:52-18:24/92 19:26	05:58 19:05-19:17/12 19:59 06:42-08:03/81	05:30 19:06-19:38/32 20:29 06:12-07:56/104
3	07:28 08:17-09:33/76 16:43	07:12 16:07-16:32/25 17:19	06:34 15:30-16:54/84 17:53	06:43 16:53-18:24/91 19:27	05:57 19:02-19:18/16 20:00 06:41-08:02/81	05:29 19:07-19:38/31 20:29 06:12-07:56/104
4	07:28 08:18-09:33/75 16:44	07:11 16:00-16:34/34 17:20	06:33 15:31-16:55/84 17:54	06:41 16:54-18:24/90 19:29	05:56 19:00-19:20/20 20:01 06:40-08:02/82	05:29 19:08-19:39/31 20:30 06:12-07:56/104
5	07:28 08:18-09:33/75 16:45	07:10 15:55-16:36/41 17:21	06:31 15:31-16:56/85 17:55	06:39 16:57-18:25/88 19:30	05:54 18:59-19:21/22 20:02 06:38-08:02/84	05:28 19:08-19:38/30 20:31 06:12-07:55/103
6	07:28 08:19-09:33/74 16:46	07:09 15:51-16:37/46 17:22	06:29 15:31-16:56/85 17:56	06:38 16:58-18:25/87 19:31	05:53 18:58-19:23/25 20:03 06:35-08:02/87	05:28 19:08-19:38/30 20:31 06:12-07:55/103
7	07:28 08:20-09:34/74 16:47	07:07 15:49-16:38/49 17:24	06:28 15:32-16:57/85 17:58	06:36 17:01-18:24/83 19:32 07:29-07:32/3	05:52 18:58-19:24/26 20:04 06:33-08:02/89	05:28 19:09-19:39/30 20:32 06:12-07:55/103
8	07:28 08:20-09:34/74 16:48	07:06 15:47-16:39/52 17:25	06:26 15:32-16:57/85 17:59	06:34 17:30-18:24/54 07:18-07:41/23 19:33 17:04-17:29/25	05:51 18:56-19:25/29 20:05 06:31-08:02/91	05:28 19:10-19:39/29 20:33 06:12-07:55/103
9	07:27 08:20-09:33/73 16:49	07:05 15:45-16:41/56 17:26	06:25 15:32-16:57/85 18:00	06:33 17:31-18:24/53 07:13-07:44/31 19:34 17:08-17:24/16	05:50 18:56-19:25/29 20:06 06:29-08:01/92	05:27 19:09-19:38/29 20:33 06:12-07:55/103
10	07:27 08:21-09:33/72 16:50	07:04 15:44-16:42/58 17:27	06:23 15:33-16:58/85 18:01	06:31 17:32-18:24/52 19:35 07:11-07:48/37	05:48 18:56-19:26/30 20:07 06:27-08:01/94	05:27 19:10-19:38/28 20:34 06:12-07:55/103
11	07:27 08:22-09:34/72 16:51	07:03 15:41-16:42/61 17:29	06:21 15:33-16:58/85 18:02	06:29 17:32-18:23/51 19:36 07:07-07:50/43	05:47 18:55-19:28/33 20:08 06:26-08:01/95	05:27 19:11-19:38/27 20:34 06:12-07:55/103
12	07:27 08:22-09:33/71 16:52	07:01 15:40-16:43/63 17:30	06:20 15:34-16:58/84 18:03	06:28 17:32-18:22/50 19:37 07:04-07:51/47	05:46 18:55-19:29/34 20:09 06:25-08:01/96	05:27 19:11-19:38/27 20:35 06:12-07:55/103
13	07:26 08:23-09:33/70 16:53	07:00 15:39-16:44/65 17:31	06:18 15:35-16:59/84 18:04	06:26 17:33-18:22/49 19:38 07:03-07:54/51	05:45 18:55-19:30/35 20:10 06:24-08:01/97	05:27 19:12-19:39/27 20:35 06:12-07:55/103
14	07:26 08:24-09:33/69 16:54	06:59 15:38-16:44/66 17:32	06:16 15:36-16:58/82 18:06	06:25 17:33-18:21/48 19:39 07:00-07:54/54	05:44 18:55-19:31/36 20:11 06:24-08:00/96	05:27 19:12-19:39/27 20:36 06:12-07:55/103
15	07:26 08:24-09:33/69 16:55	06:58 15:37-16:45/68 17:34	06:15 15:37-17:07/90 18:07	06:23 17:34-18:21/47 19:40 06:59-07:56/57	05:43 18:55-19:32/37 20:12 06:23-08:00/97	05:27 19:12-19:39/27 20:36 06:12-07:55/103
16	07:25 08:25-09:33/68 16:56	06:56 15:36-16:46/70 17:35	06:13 15:39-17:11/92 18:08	06:21 17:34-18:20/46 19:42 06:57-07:57/60	05:42 18:55-19:33/38 20:13 06:22-08:00/98	05:27 19:13-19:39/26 20:37 06:13-07:55/102
17	07:25 08:26-09:32/66 16:58	06:55 15:35-16:46/71 17:36	06:11 15:40-17:12/92 18:09	06:20 17:35-18:19/44 19:43 06:56-07:58/62	05:41 18:56-19:34/38 20:14 06:22-08:00/98	05:27 19:13-19:39/26 20:37 06:13-07:55/102
18	07:24 08:27-09:32/65 16:59	06:54 15:35-16:46/71 17:37	06:10 15:41-17:14/93 18:10	06:18 17:35-18:18/43 19:44 06:54-07:59/65	05:40 18:56-19:35/39 20:15 06:21-08:00/99	05:27 19:13-19:39/26 20:37 06:13-07:55/102
19	07:24 08:27-09:31/64 17:00	06:52 15:34-16:46/72 17:39	06:08 15:42-17:16/94 18:11	06:17 17:37-18:17/40 19:45 06:53-08:00/67	05:39 18:57-19:35/38 20:16 06:20-08:00/100	05:27 19:13-19:39/26 20:38 06:13-07:55/102
20	07:23 08:28-09:29/61 17:01	06:51 15:33-16:46/73 17:40	06:06 15:42-17:17/95 18:12	06:15 17:37-18:15/38 19:46 06:51-08:00/69	05:38 18:57-19:36/39 20:17 06:19-07:59/100	05:27 19:14-19:40/26 20:38 06:14-07:56/102
21	07:23 08:29-09:29/60 17:02	06:49 15:33-16:47/74 17:41	06:05 15:43-17:17/94 18:13	06:14 17:39-18:14/35 19:47 06:50-08:01/71	05:37 18:57-19:36/39 20:18 06:18-07:59/101	05:27 19:14-19:40/26 20:38 06:14-07:56/102
22	07:22 08:30-09:28/58 17:04	06:48 15:32-16:46/74 17:42	06:03 15:43-17:18/95 18:14	06:12 17:40-18:12/32 19:48 06:49-08:01/72	05:37 18:58-19:37/39 20:19 06:18-07:59/101	05:27 19:14-19:40/26 20:38 06:14-07:56/102
23	07:21 08:31-09:26/55 17:05	06:46 15:32-16:46/74 17:43	06:01 15:44-17:19/95 18:16	06:11 17:42-18:11/29 19:49 06:48-08:02/74	05:36 18:59-19:37/38 20:20 06:17-07:58/101	05:28 19:14-19:40/26 20:39 06:14-07:56/102
24	07:21 08:32-09:24/52 17:06	06:45 15:31-16:46/75 17:45	05:59 15:44-17:19/95 18:17	06:09 17:43-18:08/25 19:50 06:46-08:01/75	05:35 18:59-19:37/38 20:21 06:16-07:58/102	05:28 19:15-19:41/26 20:39 06:15-07:57/102
25	07:20 08:34-09:23/49 17:07	06:43 15:31-16:47/76 17:46	05:58 15:44-17:19/95 18:18	06:08 17:46-18:06/20 19:51 06:46-08:02/76	05:34 18:59-19:37/38 20:22 06:16-07:58/102	05:28 19:15-19:41/26 20:39 06:15-07:57/102
26	07:19 08:35-09:20/45 17:08	06:42 15:31-16:48/77 17:47	05:56 15:45-17:20/95 18:19	06:06 17:50-18:02/12 19:52 06:45-08:03/78	05:34 19:01-19:38/37 20:23 06:15-07:58/103	05:28 19:15-19:41/26 20:39 06:15-07:57/102
27	07:18 08:36-09:19/43 17:10	06:40 15:31-16:50/79 17:48	05:54 15:46-17:20/94 18:20	06:05 06:44-08:02/78 19:53	05:33 19:01-19:37/36 20:24 06:14-07:57/103	05:29 19:15-19:42/27 20:39 06:15-07:58/103
28	07:17 08:37-09:17/40 17:11	06:39 15:30-16:51/81 17:49	05:53 15:46-17:21/95 18:21	06:04 06:44-08:02/78 19:55	05:32 19:02-19:38/36 20:25 06:14-07:57/103	05:29 19:15-19:42/27 20:39 06:15-07:58/103
29	07:17 08:39-09:16/37 17:12		06:51 16:48-18:22/94 19:22	06:02 06:43-08:03/80 19:56	05:32 19:03-19:38/35 20:25 06:13-07:57/104	05:30 19:15-19:42/27 20:39 06:15-07:58/103
30	07:16 08:41-09:14/33 17:13		06:49 16:48-18:23/95 19:23	06:01 06:42-08:02/80 19:57	05:31 19:04-19:38/34 20:26 06:13-07:57/104	05:30 19:15-19:42/27 20:39 06:16-07:59/103
31	07:15 08:43-09:12/29 17:15		06:48 16:49-18:23/94 19:24		05:31 19:04-19:38/34 20:27 06:12-07:56/104	
Ore potenziali eliofania	296	297	369	399	449	454
Somma minuti d'ombra	1920	1728	2775	2864	3945	3914

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
 Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 01 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (1)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il dì, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1 05:31 19:15-19:42/27	05:55 19:06-19:39/33	06:26 17:31-18:22/51	06:57 16:14-17:38/84	06:32 15:13-16:10/57	07:07 08:04-09:16/72	
2 20:39 06:16-07:59/103	20:19 06:36-08:11/95	19:36 07:06-07:49/43	18:45 16:57 16:32			
2 05:31 19:15-19:43/28	05:56 19:06-19:38/32	06:27 17:30-18:22/52	06:58 16:12-17:37/85	06:33 15:15-16:10/55	07:08 08:04-09:17/73	
3 20:39 06:17-08:00/103	20:18 06:37-08:12/95	19:34 07:09-07:46/37	18:43 16:56 16:32			
3 05:32 19:15-19:43/28	05:57 19:06-19:36/30	06:28 17:29-18:22/53 07:11-07:42/31	06:59 16:11-17:36/85	06:34 15:17-16:09/52	07:09 08:04-09:17/73	
4 20:38 06:17-08:00/103	20:17 06:39-08:12/93	19:32 17:06-17:22/16	18:41 16:55 16:32			
4 05:32 19:15-19:44/29	05:58 19:07-19:36/29	06:29 17:28-18:22/54 07:15-07:38/23	07:00 16:10-17:35/85	06:35 15:19-16:08/49	07:10 08:05-09:18/73	
5 20:38 06:17-08:01/104	20:16 06:40-08:12/92	19:31 17:01-17:26/25	18:40 16:54 16:32			
5 05:33 19:14-19:44/30	05:59 19:07-19:35/28	06:30 16:58-18:21/83	07:01 16:09-17:34/85	06:36 15:21-16:06/45	07:11 08:05-09:19/74	
6 20:38 06:18-08:01/103	20:15 06:41-08:12/91	19:29 07:24-07:29/5	18:38 16:52 16:32			
6 05:33 19:15-19:44/29	06:00 19:08-19:34/26	06:31 16:55-18:21/86	07:02 16:08-17:33/85	06:38 15:26-16:06/40	07:12 08:05-09:19/74	
7 20:38 06:18-08:01/103	20:14 06:43-08:12/89	19:27 16:52-18:20/88	18:36 16:51 16:31			
7 05:34 19:15-19:45/30	06:01 19:08-19:32/24	06:32 16:52-18:20/88	07:03 16:07-17:32/85	06:39 15:31-16:04/33	07:13 08:05-09:20/75	
8 20:38 06:19-08:02/103	20:12 06:46-08:12/86	19:26 16:52-18:20/88	18:35 16:50 16:31			
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9 20:37 06:18-08:02/104	20:11 06:49-08:12/83	19:24 16:49-18:19/90	18:33 16:49 16:31			
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10 20:37 06:19-08:03/104	20:10 06:50-08:11/81	19:22 16:47-18:19/92	18:31 16:48 16:31			
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12 20:36 06:20-08:03/103	20:07 06:51-08:11/80	19:19 16:43-18:17/94	18:28 16:46 16:31			
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13 20:36 06:21-08:04/103	20:06 19:17		18:26 16:45 16:31			
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14 20:35 06:21-08:05/104	20:05 19:16		18:25 16:44 16:32			
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15 20:34 06:22-08:06/104	20:03 19:14		18:23 16:43 16:32			
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17 20:33 06:23-08:06/103	20:00 19:10		18:20 16:41 16:32			
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19 20:32 06:25-08:07/102	19:58 06:53-08:09/76	19:07 16:33-18:07/94	18:17 16:40 16:33			
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23 20:29 06:28-08:09/101	19:52 06:54-08:05/71	19:00 16:28-18:03/95	18:11 16:37 16:34			
23 05:46 19:07-19:46/39	06:17 17:41-18:19/38	06:48 16:27-18:01/94	07:21 16:04-17:16/72	06:58 08:04-09:08/64	07:25 08:12-09:29/77	
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24 05:47 19:07-19:46/39	06:18 17:40-18:20/40	06:49 16:26-18:00/94	07:22 16:04-17:16/72	06:59 08:04-09:09/65	07:25 08:12-09:29/77	
25 20:27 06:30-08:10/100	19:49 06:56-08:03/67	18:57 16:26-18:00/94	18:08 16:36 16:36			
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26 20:26 06:31-08:10/99	19:47 06:57-08:01/64	18:55 16:24-17:58/94	17:07 16:35 16:36			
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27 20:26 06:32-08:11/99	19:45 06:58-08:00/62	18:53 16:23-17:56/93	17:05 16:34 16:37			
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30 20:23 06:34-08:11/97	19:41 07:01-07:55/54	18:48 16:17-17:44/87	17:01 16:33 16:39			
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31 20:22 06:35-08:11/96	19:39 07:03-07:53/50	18:46 16:15-17:38/83	17:00 16:33 16:40			
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Ore potenziali eliofanía	460	429	375	345	297	286
Somma minuti d'ombra	4210	3165	2785	2379	1543	2351

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 02 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il dì, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 09:02-10:31/89 16:41 07:50-08:21/31	07:14 15:08-15:58/50 07:37-08:32/55 17:16 09:19-10:34/75	06:37 17:51	06:46 07:29-08:33/64 19:25	05:59 19:18-19:35/17 19:58 17:41-18:56/75	05:30 19:49-20:03/14 20:28 17:44-19:46/122
2	07:28 09:02-10:32/90 16:42 07:50-08:21/31	07:13 15:08-15:59/51 07:37-08:32/55 17:17 09:20-10:33/73	06:36 17:52	06:44 07:30-08:33/63 19:26	05:58 19:29-19:36/7 19:20-19:28/8 19:59 17:41-18:58/77	05:30 19:49-20:03/14 20:28 17:44-19:46/122
3	07:28 09:02-10:32/90 16:43 07:50-08:22/32	07:12 15:08-15:59/51 07:36-08:32/56 17:19 09:21-10:32/71	06:34 17:53	06:43 07:30-08:31/61 19:27	05:57 19:27-19:36/9 20:00 17:40-18:58/78	05:29 19:50-20:04/14 20:29 17:45-19:47/122
4	07:28 09:03-10:33/90 16:44 07:50-08:22/32	07:11 15:08-16:00/52 07:35-08:31/56 17:20 09:22-10:31/69	06:33 17:54	06:41 07:30-08:30/60 19:29	05:56 19:27-19:37/10 20:01 17:39-18:59/80	05:29 19:51-20:05/14 20:30 17:46-19:48/122
5	07:28 09:03-10:33/90 16:45 07:50-08:23/33	07:10 15:08-16:00/52 07:34-08:31/57 17:21 09:24-10:30/66	06:31 07:13-07:15/2 17:55	06:39 07:32-08:29/57 19:30	05:54 19:27-19:39/12 20:02 17:39-19:00/81	05:28 19:51-20:05/14 20:31 17:46-19:48/122
6	07:28 09:04-10:34/90 16:46 07:50-08:23/33	07:09 15:07-16:00/53 07:33-08:29/56 17:22 09:24-10:28/64	06:29 07:03-07:23/20 17:56	06:38 07:32-08:28/56 19:31	05:53 19:27-19:40/13 20:03 17:39-19:01/82	05:28 19:52-20:05/13 20:31 17:46-19:49/123
7	07:28 09:05-10:34/89 16:47 07:50-08:24/34	07:07 15:07-16:00/53 07:31-08:28/57 17:24 09:26-10:26/60	06:28 07:00-07:27/27 17:58	06:36 07:33-08:27/54 19:32	05:52 19:28-19:41/13 20:04 17:39-19:02/83	05:28 19:53-20:05/12 20:32 17:47-19:50/123
8	07:27 09:05-10:35/90 16:48 07:50-08:24/34	07:06 15:08-16:00/52 07:31-08:27/56 17:25 09:28-10:25/57	06:26 06:56-07:29/33 17:59	06:33 07:34-08:25/51 19:33	05:51 19:27-19:41/14 20:05 17:39-19:02/83	05:28 19:54-20:04/10 20:33 17:48-19:51/123
9	07:27 09:05-10:35/90 16:49 07:49-08:24/35	07:05 15:08-16:01/53 07:30-08:26/56 17:26 09:31-10:23/52	06:25 06:52-07:31/39 18:00	06:33 07:34-08:24/50 19:34	05:50 19:28-19:42/14 20:06 17:38-19:02/84	05:27 19:54-20:03/9 20:33 17:47-19:51/124
10	07:27 15:20-15:29/9 07:49-08:25/36 16:50 09:06-10:35/89	07:04 15:09-16:01/52 07:30-08:24/54 17:27 09:34-10:21/47	06:23 06:49-07:33/44 18:01	06:33 07:36-08:23/47 19:35	05:48 19:28-19:43/15 20:07 17:38-19:02/84	05:27 17:49-19:53/124 20:35
11	07:27 15:18-15:33/15 07:49-08:25/36 16:51 09:06-10:36/90	07:03 15:08-16:00/52 08:02-08:21/19 17:29 09:37-10:18/41 07:29-08:00/31	06:21 06:46-07:35/49 18:02	06:29 07:36-08:21/45 19:36	05:47 19:28-19:44/15 20:08 17:38-19:03/85	05:27 19:54-20:03/9 20:34 17:48-19:52/124
12	07:27 15:16-15:34/18 07:48-08:25/37 16:52 09:06-10:36/90	07:01 15:09-16:00/51 08:06-08:17/11 17:30 09:39-10:15/36 07:29-07:59/30	06:20 06:44-07:35/51 18:03	06:28 07:37-08:18/41 19:37	05:46 19:30-19:45/15 20:09 17:38-19:19/99	05:27 17:49-19:53/124 20:35
13	07:26 15:15-15:36/21 07:48-08:27/39 16:53 09:07-10:36/89	07:00 15:10-16:00/50 07:29-07:59/30 17:31 09:42-10:12/30	06:18 06:43-07:37/54 18:04	06:26 07:39-08:17/38 19:38	05:45 19:31-19:46/15 20:10 17:38-19:20/102	05:27 17:49-19:53/124 20:35
14	07:26 15:15-15:39/24 07:48-08:28/40 16:54 09:08-10:37/89	06:59 15:10-15:59/49 07:29-07:57/28 17:32 09:46-10:06/20	06:16 06:41-07:37/56 18:06	06:25 07:40-08:14/34 19:39	05:44 19:32-19:47/15 20:11 17:38-19:23/105	05:27 17:50-19:54/124 20:36
15	07:26 15:13-15:40/27 07:47-08:28/41 16:55 09:08-10:37/89	06:58 15:11-15:59/48 17:34 07:29-07:57/28	06:15 06:39-07:38/59 18:07	06:24 18:08-18:31/23 19:40 07:43-08:12/29	05:43 19:28-19:42/14 20:12 17:38-19:25/107	05:27 17:50-19:54/124 20:36
16	07:25 15:13-15:42/29 07:47-08:29/42 16:56 09:09-10:38/89	06:56 15:12-15:59/47 17:35 07:30-07:56/26	06:13 06:38-07:39/61 18:08	06:21 18:03-18:34/31 19:42 07:45-08:08/23	05:42 19:35-19:49/14 20:13 17:38-19:26/108	05:27 17:50-19:55/125 20:37
17	07:25 15:12-15:42/30 07:46-08:29/43 16:58 09:09-10:37/88	06:55 15:13-15:57/44 17:36 07:30-07:54/24	06:11 06:37-07:39/62 18:09	06:20 18:00-18:38/38 19:43 07:49-08:04/15	05:41 19:36-19:51/15 20:14 17:39-19:28/109	05:27 17:50-19:55/125 20:37
18	07:24 15:11-15:44/33 07:45-08:29/44 16:59 09:09-10:37/88	06:53 15:14-15:57/43 17:37 07:31-07:53/22	06:10 06:35-07:39/64 18:10	06:18 17:57-18:39/42 19:44	05:40 19:38-19:51/13 20:15 17:39-19:30/111	05:27 17:51-19:55/124 20:37
19	07:24 15:11-15:46/35 07:46-08:31/45 17:00 09:10-10:38/88	06:52 15:15-15:55/40 17:39 07:33-07:52/19	06:08 06:35-07:40/65 18:11	06:17 19:20-19:23/3 19:45 17:55-18:42/47	05:39 19:38-19:52/14 20:16 17:39-19:32/113	05:27 17:51-19:55/124 20:38
20	07:23 15:10-15:47/37 07:46-08:31/45 17:01 09:10-10:37/87	06:51 15:17-15:54/37 17:40 07:33-07:50/17	06:06 06:34-07:40/66 18:12	06:15 19:17-19:23/6 19:46 17:53-18:43/50	05:38 19:39-19:53/14 20:17 17:40-19:34/114	05:27 17:52-19:56/124 20:38
21	07:23 15:10-15:48/38 07:46-08:32/46 17:02 09:11-10:38/87	06:49 15:19-15:53/34 17:41 07:36-07:48/12	06:04 06:33-07:39/66 18:13	06:14 19:17-19:25/8 19:47 17:52-18:45/53	05:37 19:40-19:53/13 20:18 17:40-19:35/115	05:27 17:52-19:56/124 20:38
22	07:22 15:10-15:50/40 07:46-08:32/46 17:04 09:11-10:38/87	06:48 15:20-15:51/31 17:42 07:40-07:42/2	06:03 06:32-07:39/67 18:14	06:12 19:15-19:25/10 19:48 17:49-18:46/57	05:37 19:40-19:54/14 20:19 17:41-19:37/116	05:27 17:52-19:56/124 20:38
23	07:21 15:09-15:50/41 07:46-08:32/46 17:05 09:12-10:37/85	06:46 15:23-15:49/26 17:43	06:01 06:32-07:39/67 18:15	06:11 19:15-19:27/12 19:49 17:48-18:47/59	05:36 19:42-19:56/14 20:20 17:41-19:37/116	05:28 17:52-19:56/124 20:38
24	07:21 15:08-15:51/43 07:46-08:32/46 17:06 09:12-10:37/85	06:45 15:26-15:44/18 17:45	05:59 06:31-07:39/68 18:17	06:09 19:14-19:27/13 19:50 17:47-18:47/60	05:35 19:43-19:56/13 20:21 17:41-19:38/117	05:28 17:53-19:57/124 20:39
25	07:20 15:08-15:52/44 07:47-08:33/46 17:07 09:13-10:37/84	06:43 15:33-15:37/4 17:46	05:58 06:30-07:38/68 18:18	06:08 19:14-19:29/15 19:51 17:46-18:49/63	05:34 19:43-19:57/14 20:22 17:41-19:39/118	05:28 17:52-19:57/125 20:39
26	07:19 15:09-15:54/45 07:47-08:33/46 17:08 09:14-10:37/83	06:42 17:47	05:56 06:30-07:38/68 18:19	06:06 19:14-19:29/15 19:52 17:45-18:50/65	05:34 19:44-19:58/14 20:23 17:42-19:41/119	05:28 17:52-19:57/125 20:39
27	07:18 15:08-15:54/46 07:48-08:33/45 17:10 09:15-10:37/82	06:40 17:48	05:54 06:30-07:38/68 18:20	06:05 19:14-19:30/16 19:53 17:44-18:51/67	05:33 19:45-19:58/13 20:24 17:42-19:41/119	05:29 17:53-19:57/124 20:39
28	07:17 15:08-15:55/47 07:48-08:33/45 17:11 09:15-10:36/81	06:39 17:49	05:53 06:29-07:37/68 18:21	06:04 19:15-19:32/17 19:54 17:43-18:53/70	05:32 19:46-20:00/14 20:24 17:43-19:43/120	05:29 17:53-19:57/124 20:39
29	07:17 15:08-15:56/48 07:42-08:33/51 17:12 09:16-10:36/80		06:51 07:30-08:37/67 19:22	06:02 19:15-19:32/17 19:56 17:42-18:53/71	05:32 19:46-20:00/14 20:25 17:43-19:43/120	05:30 17:52-19:56/124 20:39
30	07:16 15:08-15:57/49 07:40-08:33/53 17:13 09:17-10:35/78		06:49 07:30-08:35/65 19:23	06:01 19:16-19:33/17 19:57 17:41-18:55/74	05:31 19:47-20:01/14 20:26 17:44-19:44/120	05:30 17:53-19:57/124 20:39
31	07:15 15:08-15:57/49 07:38-08:33/55 17:15 09:18-10:34/76		06:48 07:29-08:34/65 19:24		05:31 19:48-20:02/14 20:27 17:44-19:44/120	
Ore potenziali eliofanìa	296	297	369	399	449	454
Somma minuti d'ombra	4728	2711	1489	1816	3588	3833

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

Progetto:

Riccia

Utente autorizzato:

VSB Neue Energien Deutschland GmbH

Schweizer Straße 3a

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Luca Di Grigoli / luca.digrigoli@vsb.energy

Redatto il:

26/05/2022 15:09/3.5.576



VSB

SHADOW - Calendario per WTG

WTG: WTG 02 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (2)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 17:52-19:56/124 20:39	05:55 19:40-19:55/15 20:19 19:16-19:26/10	06:26 07:35-08:20/45 19:36	06:57 07:23-08:15/52 18:45	06:32 14:38-15:30/52 16:57 09:02-09:50/48	07:07 15:00-15:15/15 16:32 08:48-10:18/90
2	05:31 20:01-20:07/6 20:39 17:53-19:57/124	05:56 19:39-19:54/15 20:18 17:49-19:13/84	06:27 07:34-08:21/47 19:34	06:58 07:24-08:14/50 18:43	06:33 14:38-15:30/52 16:56 09:00-09:53/53	07:08 15:03-15:13/10 16:32 08:49-10:18/89
3	05:32 20:00-20:07/7 20:38 17:52-19:56/124	05:57 19:39-19:53/14 20:17 17:49-19:13/84	06:28 07:32-08:22/50 19:32	06:59 07:26-08:12/46 18:41	06:34 14:38-15:30/52 16:55 08:58-09:55/57	07:09 08:49-10:19/90 16:32 07:33-08:08/35
4	05:32 20:00-20:09/9 20:38 17:53-19:56/123	05:58 19:38-19:52/14 20:16 17:49-19:12/83	06:29 07:31-08:22/51 19:31	07:00 07:28-08:10/42 18:40	06:35 14:37-15:30/53 16:54 08:56-09:56/60	07:10 08:49-10:19/90 16:32 07:34-08:08/34
5	05:33 19:58-20:09/11 20:38 17:52-19:55/123	05:59 19:38-19:51/13 20:15 17:49-19:12/83	06:30 07:29-08:23/54 19:29	07:01 07:31-08:07/36 18:38	06:36 14:37-15:30/53 16:52 08:54-09:58/64	07:11 08:50-10:20/90 16:32 07:35-08:09/34
6	05:33 19:58-20:11/13 20:38 17:53-19:56/123	06:00 19:37-19:50/13 20:14 17:49-19:11/82	06:31 07:28-08:24/56 19:27	07:02 07:34-08:04/30 18:36	06:38 14:38-15:30/52 16:51 08:54-10:00/66	07:12 08:50-10:20/90 16:31 07:36-08:09/33
7	05:34 19:58-20:12/14 20:37 17:53-19:56/123	06:01 19:37-19:49/12 20:12 17:49-19:10/81	06:32 07:27-08:24/57 19:26	07:03 07:37-08:01/24 18:35	06:39 14:38-15:30/52 16:50 08:52-10:01/69	07:13 08:50-10:20/90 16:31 07:37-08:10/33
8	05:35 19:57-20:11/14 20:37 17:52-19:55/123	06:02 19:37-19:48/11 20:11 17:49-19:09/80	06:33 07:25-08:25/60 19:24	07:04 07:42-07:56/14 18:33	06:40 14:38-15:29/51 16:49 08:51-10:02/71	07:14 08:51-10:21/90 16:31 07:38-08:10/32
9	05:35 19:57-20:11/14 20:37 17:52-19:55/123	06:03 19:37-19:47/10 20:10 17:49-19:08/79	06:34 07:24-08:25/61 19:22	07:05 18:31	06:41 14:39-15:29/50 16:48 08:51-10:04/73	07:15 08:51-10:21/90 16:31 07:39-08:11/32
10	05:36 19:57-20:11/14 20:36 17:53-19:55/122	06:04 19:37-19:46/9 20:09 17:49-19:07/78	06:35 07:23-08:26/63 19:21	07:06 18:30	06:42 14:39-15:29/50 16:47 08:50-10:05/75	07:16 08:52-10:22/90 16:31 07:40-08:11/31
11	05:37 19:56-20:10/14 20:36 17:52-19:53/121	06:05 19:28-19:44/16 20:07 17:50-19:06/76	06:36 07:22-08:26/64 19:19	07:07 18:28	06:44 14:39-15:28/49 16:46 08:49-10:05/76	07:16 08:52-10:22/90 16:31 07:40-08:11/31
12	05:37 19:56-20:10/14 20:35 17:52-19:53/121	06:06 19:26-19:43/17 20:06 17:50-19:05/75	06:37 07:22-08:26/64 19:17	07:09 18:26	06:45 14:40-15:28/48 16:45 08:49-10:07/78	07:17 08:52-10:22/90 16:31 07:41-08:11/30
13	05:38 19:56-20:10/14 20:35 17:52-19:53/121	06:07 19:25-19:42/17 20:05 17:50-19:03/73	06:38 07:21-08:27/66 19:16	07:10 18:25	06:46 14:40-15:28/48 16:44 08:48-10:08/80	07:18 08:53-10:23/90 16:31 07:42-08:12/30
14	05:39 19:55-20:09/14 20:34 17:52-19:53/121	06:08 19:23-19:41/18 20:03 17:51-19:02/71	06:39 07:20-08:27/67 19:14	07:11 18:23	06:47 14:40-15:27/47 16:43 08:47-10:08/81	07:19 08:54-10:23/89 16:32 07:43-08:12/29
15	05:40 19:55-20:08/13 20:34 17:51-19:51/120	06:09 19:21-19:38/17 20:02 17:51-19:00/69	06:40 07:20-08:27/67 19:12	07:12 18:22	06:48 14:40-15:26/46 16:42 08:47-10:09/82	07:20 08:54-10:24/90 16:32 07:44-08:13/29
16	05:40 19:54-20:08/14 20:33 17:51-19:51/120	06:10 19:21-19:37/16 20:00 17:51-18:58/67	06:41 07:19-08:27/68 19:10	07:13 18:20	06:50 14:42-15:27/45 16:41 08:47-10:10/83	07:20 08:54-10:24/90 16:32 07:44-08:13/29
17	05:41 19:54-20:08/14 20:33 17:51-19:50/119	06:11 19:20-19:36/16 19:59 17:52-18:56/64	06:42 07:19-08:27/68 19:09	07:14 16:01-16:12/11 18:18	06:51 14:42-15:26/44 16:40 08:47-10:11/84	07:21 08:55-10:25/90 16:32 07:45-08:14/29
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19	05:43 19:52-20:06/14 20:31 17:50-19:48/118	06:13 19:20-19:33/13 19:56 17:53-18:53/60	06:44 07:18-08:26/68 19:05	07:16 15:53-16:20/27 18:15	06:53 14:43-15:24/41 16:39 08:47-10:12/85	07:22 08:56-10:25/89 16:33 07:46-08:14/28
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21	05:45 19:51-20:05/14 20:30 17:50-19:47/117	06:15 19:20-19:30/10 19:53 17:54-18:50/56	06:46 07:18-08:25/67 19:02	07:18 15:49-16:24/35 18:12 08:06-08:19/13	06:56 14:45-15:24/39 16:37 08:46-10:13/87	07:24 08:57-10:26/89 16:34 07:47-08:15/28
22	05:45 19:50-20:04/14 20:29 17:50-19:46/116	06:16 19:21-19:28/7 19:52 17:56-18:48/52	06:47 07:18-08:25/67 19:00	07:20 15:47-16:25/38 18:11 08:04-08:21/17	06:57 14:46-15:23/37 16:37 08:46-10:13/87	07:24 08:58-10:27/89 16:34 07:48-08:16/28
23	05:46 19:50-20:04/14 20:28 17:50-19:45/115	06:17 19:21-19:27/6 19:50 17:57-18:47/50	06:48 07:18-08:24/66 18:58	07:21 15:45-16:26/41 18:10 08:02-08:22/20	06:58 14:47-15:22/35 16:36 08:46-10:14/88	07:25 08:58-10:27/89 16:35 07:48-08:16/28
24	05:47 19:49-20:03/14 20:27 17:50-19:44/114	06:18 19:23-19:26/3 19:48 17:59-18:44/45	06:49 07:18-08:24/66 18:57	07:22 15:43-16:27/44 18:08 08:01-08:23/22	06:59 14:49-15:22/33 16:36 08:47-10:15/88	07:25 08:58-10:27/89 16:35 07:48-08:16/28
25	05:48 19:49-20:02/13 20:26 17:50-19:42/112	06:19 18:00-18:42/42 19:47	06:50 07:18-08:23/65 18:55	07:23 14:42-15:27/45 17:07 07:00-07:25/25	07:00 14:50-15:21/31 16:35 08:47-10:15/88	07:25 08:59-10:28/89 16:36 07:49-08:17/28
26	05:49 19:48-20:01/13 20:25 17:50-19:40/110	06:20 18:03-18:39/36 19:45 07:51-08:06/15	06:52 07:19-08:22/63 18:53	07:24 14:42-15:28/46 17:05 07:00-07:26/26	07:01 14:51-15:20/29 16:34 08:47-10:16/89	07:26 08:59-10:28/89 16:37 07:49-08:18/29
27	05:50 19:46-20:00/14 20:25 17:49-19:37/108	06:21 18:05-18:36/31 19:44 07:47-08:10/23	06:53 07:19-08:21/62 18:51	07:25 14:41-15:29/48 17:04 09:22-09:29/7	07:03 14:52-15:19/27 16:34 08:47-10:16/89	07:26 08:59-10:29/90 16:37 07:49-08:18/29
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30	05:53 19:42-19:57/15 20:22 17:49-19:32/103	06:24 07:39-08:17/38 19:39	06:56 07:22-08:17/55 18:46	07:29 14:39-15:30/51 17:00 09:08-09:45/37	07:06 14:58-15:16/18 16:33 08:48-10:18/90	07:27 09:01-10:30/89 16:40 07:50-08:20/30
31	05:54 19:41-19:56/15 20:20 17:49-19:30/101	06:25 07:37-08:18/41 19:37	06:57 07:22-08:17/55 18:45	07:30 14:38-15:30/52 16:59 09:06-09:46/42	07:07 14:59-15:17/17 16:33 08:48-10:18/90	07:27 09:01-10:31/90 16:40 07:50-08:20/30
Ore potenziali eliofanía	460	429	375	345	297	286
Somma minuti d'ombra	4030	2338	1840	1334	5061	3744

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 03 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 12:56-14:38/102 16:41	07:14 08:13-08:27/14 17:16	06:37 16:49-17:29/40 17:51 07:46-08:22/36	06:46 18:08-19:03/55 19:25	05:59 18:17-19:35/78 19:58	05:30 19:17-20:03/46 20:28
2	07:28 12:56-14:38/102 16:42	07:13 16:46-16:53/7 17:17 08:11-08:29/18	06:36 16:52-17:30/38 17:52 07:46-08:22/36	06:44 18:08-19:05/57 19:26	05:58 18:19-19:36/77 19:59	05:30 19:17-20:03/46 20:28
3	07:28 12:57-14:38/101 16:43	07:12 16:43-16:55/12 17:19 08:09-08:31/22	06:34 16:53-17:31/38 17:53 07:45-08:20/35	06:43 18:07-19:06/59 19:27	05:57 18:20-19:36/76 20:00	05:29 19:18-20:04/46 20:29
4	07:28 12:58-14:39/101 16:44	07:11 16:42-16:56/14 17:20 08:08-08:33/25	06:33 16:56-17:32/36 17:54 07:46-08:19/33	06:41 18:05-19:07/62 19:29	05:56 18:21-19:37/76 20:01	05:29 19:19-20:05/46 20:30
5	07:28 12:59-14:39/100 16:45	07:10 16:41-16:58/17 17:21 08:07-08:34/27	06:31 17:00-17:06/6 07:45-08:18/33 17:55 17:09-17:34/25	06:39 18:05-19:08/63 19:30	05:54 18:22-19:39/77 20:02	05:29 19:20-20:05/45 20:31
6	07:28 13:00-14:39/99 16:46	07:08 16:39-16:58/19 17:22 08:05-08:34/29	06:29 17:09-17:33/24 17:56 07:45-08:17/32	06:38 18:05-19:09/64 19:31	05:53 18:23-19:40/77 20:03	05:28 19:21-20:06/45 20:31
7	07:28 13:01-14:40/99 16:47	07:07 16:38-17:00/22 17:24 08:03-08:35/32	06:28 17:09-17:33/24 17:58 07:46-08:17/31	06:36 18:04-19:10/66 19:32	05:52 18:25-19:41/76 20:04	05:28 19:21-20:07/46 20:32
8	07:27 13:02-14:40/98 16:48	07:06 16:38-17:02/24 17:25 08:03-08:36/33	06:26 17:10-17:32/22 17:59 07:46-08:15/29	06:34 18:04-19:11/67 19:33	05:51 18:26-19:41/75 20:05	05:28 19:22-20:07/45 20:32
9	07:27 13:02-14:40/98 16:49	07:05 16:37-17:03/26 17:26 08:02-08:36/34	06:24 17:10-17:31/21 18:00 07:47-08:13/26	06:33 18:03-19:12/69 19:34	05:50 18:26-19:42/76 20:06	05:27 19:22-20:07/45 20:33
10	07:27 13:03-14:40/97 16:50	07:04 16:37-17:05/28 17:27 08:02-08:37/35	06:23 17:12-17:30/18 18:01 07:48-08:12/24	06:31 18:04-19:14/70 19:35	05:48 18:27-19:43/76 20:07	05:27 19:22-20:08/46 20:34
11	07:27 13:05-14:41/96 16:51	07:03 16:36-17:05/29 17:29 08:00-08:36/36	06:21 17:13-17:27/14 18:02 07:50-08:10/20	06:29 18:03-19:14/71 19:36	05:47 18:29-19:44/75 20:08	05:27 19:23-20:08/45 20:34
12	07:27 13:05-14:40/95 16:52	07:01 16:36-17:07/31 17:30 08:00-08:37/37	06:20 17:15-17:24/9 18:03 07:51-08:07/16	06:28 18:03-19:15/72 19:37	05:46 18:30-19:45/75 20:09	05:27 19:23-20:09/46 20:35
13	07:26 13:06-14:40/94 16:53	07:00 16:37-17:09/32 17:31 08:00-08:37/37	06:18 07:56-08:03/7 18:04	06:26 18:03-19:16/73 19:38	05:45 19:06-19:46/40 20:10	05:27 19:24-20:09/45 20:35
14	07:26 13:07-14:40/93 16:54	06:59 16:36-17:09/33 17:32 07:58-08:36/38	06:16 18:06	06:25 18:03-19:17/74 19:39	05:44 19:06-19:47/41 20:11	05:27 19:24-20:10/46 20:36
15	07:26 13:09-14:40/91 16:55	06:57 16:37-17:11/34 17:34 07:57-08:36/39	06:15 18:07	06:23 18:03-19:19/76 19:40	05:43 19:06-19:48/42 20:12	05:27 19:25-20:10/45 20:36
16	07:25 13:11-14:41/90 16:56	06:56 16:38-17:13/35 17:35 07:56-08:36/40	06:13 18:08	06:21 18:03-19:19/76 19:41	05:42 19:07-19:49/42 20:13	05:27 19:25-20:11/46 20:36
17	07:25 13:12-14:40/88 16:58	06:55 16:38-17:13/35 17:36 07:54-08:35/41	06:11 18:09	06:20 18:04-19:21/77 19:43	05:41 19:08-19:51/43 20:14	05:27 19:25-20:11/46 20:37
18	07:24 13:13-14:39/86 16:59	06:53 16:39-17:15/36 17:37 07:54-08:34/40	06:10 18:10	06:18 18:04-19:21/77 19:44	05:40 19:08-19:51/43 20:15	05:27 19:26-20:11/45 20:37
19	07:24 13:15-14:40/85 17:00	06:52 16:39-17:16/37 17:39 07:52-08:33/41	06:08 18:11	06:17 18:05-19:23/78 19:45	05:39 19:09-19:52/43 20:16	05:27 19:26-20:11/45 20:37
20	07:23 13:16-14:39/83 17:01	06:51 16:41-17:18/37 17:40 07:51-08:32/41	06:06 17:34-17:51/17 18:12	06:15 18:05-19:23/78 19:46	05:38 19:09-19:53/44 20:17	05:27 19:27-20:12/45 20:38
21	07:22 13:18-14:38/80 17:02	06:49 16:42-17:18/36 17:41 07:51-08:30/39	06:04 17:29-17:52/23 18:13	06:14 18:06-19:23/77 19:47	05:37 19:10-19:53/43 20:18	05:27 19:27-20:12/45 20:38
22	07:22 13:21-14:38/77 17:04	06:48 16:43-17:20/37 17:42 07:50-08:29/39	06:03 17:25-17:53/28 18:14	06:12 19:24-19:25/1 19:48	05:37 19:11-19:55/44 20:19	05:27 19:27-20:12/45 20:38
23	07:21 13:23-14:37/74 17:05	06:46 16:44-17:20/36 17:43 07:49-08:29/40	06:01 17:23-17:55/32 18:15	06:11 18:07-19:27/80 19:49	05:36 19:12-19:56/44 20:20	05:28 19:27-20:12/45 20:38
24	07:20 13:26-14:36/70 17:06	06:45 16:44-17:20/36 17:45 07:48-08:28/40	05:59 17:20-17:55/35 18:17	06:09 18:07-19:27/80 19:50	05:35 19:12-19:56/44 20:21	05:28 19:28-20:13/45 20:39
25	07:20 13:29-14:35/66 17:07	06:43 16:45-17:23/38 17:46 07:48-08:27/39	05:58 17:18-17:56/38 18:18	06:08 18:08-19:29/81 19:51	05:34 19:12-19:57/45 20:22	05:28 19:27-20:13/46 20:39
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27	07:18 13:38-14:33/55 17:10	06:40 16:46-17:26/40 17:48 07:47-08:26/39	05:54 17:15-17:59/44 18:20	06:05 18:10-19:30/80 19:53	05:33 19:13-19:58/45 20:24	05:29 19:28-20:13/45 20:39
28	07:17 13:41-14:32/51 17:11	06:39 16:48-17:28/40 17:49 07:47-08:24/37	05:53 17:13-17:59/46 18:21	06:04 18:12-19:32/80 19:54	05:32 19:15-20:00/45 20:24	05:29 19:27-20:13/46 20:39
29	07:16 13:46-14:29/43 17:12	06:38 16:48-17:28/40 17:48 07:47-08:24/37	05:51 18:11-19:00/49 19:22	06:02 18:13-19:32/79 19:56	05:32 19:15-20:00/45 20:25	05:30 19:27-20:13/46 20:39
30	07:16 14:07-14:26/19 17:13	06:37 16:48-17:28/40 17:48 07:47-08:24/37	06:49 18:11-19:02/51 19:23	06:01 18:15-19:33/78 19:57	05:31 19:16-20:01/45 20:26	05:30 19:28-20:13/45 20:39
31	07:15 14:14-14:20/6 17:15 08:16-08:24/8	06:36 16:48-17:28/40 17:48 07:47-08:24/37	06:48 18:09-19:03/54 19:24	06:00 18:15-19:33/78 19:57	05:31 19:16-20:02/46 20:27	05:30 19:28-20:13/45 20:39
Ore potenziali eliofanìa	296	297	369	399	449	454
Somma minuti d'ombra	2507	1782	1131	2175	1854	1364

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
 Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra





SHADOW - Calendario per WTG

WTG: WTG 03 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (3)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:31 19:27-20:13/46 20:39	05:55 18:40-19:55/75 20:19	06:26 18:02-19:13/71 19:36	06:57 17:58-18:00/2 18:45 08:32-08:45/13	06:32 16:06-16:33/27 16:57 07:30-08:06/36	07:07 12:47-14:23/96 16:32
2	05:31 19:28-20:13/45 20:39	05:56 18:39-19:54/75 20:18	06:27 18:02-19:12/70 19:34	06:58 17:53-18:05/12 18:43 08:29-08:48/19	06:33 16:06-16:33/27 16:56 07:32-08:06/34	07:08 12:46-14:23/97 16:32
3	05:32 19:27-20:12/45 20:38	05:57 18:37-19:53/76 20:17	06:28 18:01-19:10/69 19:32	06:59 17:50-18:07/17 18:41 08:27-08:49/22	06:34 16:08-16:31/23 16:55 07:33-08:05/32	07:09 12:46-14:24/98 16:32
4	05:32 19:27-20:13/46 20:38	05:58 18:36-19:52/76 20:16	06:29 18:01-19:08/67 19:31	07:00 17:48-18:08/20 18:39 08:25-08:50/25	06:35 16:08-16:30/22 16:54 07:33-08:05/32	07:10 12:46-14:24/98 16:32
5	05:33 19:27-20:12/45 20:38	05:59 18:35-19:51/76 20:15	06:30 18:01-19:07/66 19:29	07:01 17:47-18:08/21 18:38 08:23-08:51/28	06:36 16:09-16:28/19 16:52 07:35-08:04/29	07:11 12:46-14:25/99 16:32
6	05:33 19:27-20:12/45 20:38	06:00 18:34-19:50/76 20:14	06:31 18:01-19:05/64 19:27	07:02 17:45-18:09/24 18:36 08:22-08:52/30	06:38 16:11-16:28/17 16:51 07:37-08:04/27	07:12 12:46-14:25/99 16:31
7	05:34 19:27-20:12/45 20:37	06:01 18:33-19:49/76 20:12	06:32 18:01-19:03/62 19:26	07:03 17:44-18:09/25 18:34 08:21-08:52/31	06:39 16:12-16:26/14 16:50 07:38-08:02/24	07:13 12:46-14:26/100 16:31
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9	05:35 19:26-20:11/45 20:37	06:03 18:31-19:47/76 20:10	06:34 18:01-19:00/59 19:22	07:05 17:33-18:09/36 18:31 08:21-08:54/33	06:41 16:17-16:24/7 16:48 07:42-08:00/18	07:15 12:46-14:27/101 16:31
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11	05:37 19:25-20:10/45 20:36	06:05 18:27-19:44/77 20:07	06:36 18:01-18:57/56 19:19	07:07 17:27-18:05/38 18:28 08:20-08:55/35	06:44 13:44-13:52/8 16:46 07:47-07:54/7	07:16 12:46-14:28/102 16:31
12	05:37 19:25-20:10/45 20:35	06:06 18:25-19:43/78 20:06	06:37 18:01-18:55/54 19:17	07:09 17:25-18:03/38 18:26 08:19-08:55/36	06:45 13:37-13:57/20 16:45	07:17 12:46-14:28/102 16:31
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14	05:39 19:24-20:10/46 20:34	06:08 18:21-19:41/80 20:03	06:39 18:02-18:52/50 19:14	07:11 17:20-18:00/40 18:23 08:19-08:57/38	06:47 13:13-14:04/51 16:43	07:19 12:47-14:30/103 16:32
15	05:40 19:23-20:08/45 20:34	06:09 18:19-19:39/80 20:02	06:40 18:03-18:50/47 19:12	07:12 17:18-17:58/40 18:22 08:19-08:57/38	06:48 13:10-14:05/55 16:42	07:20 12:47-14:30/103 16:32
16	05:40 19:23-20:08/45 20:33	06:10 18:18-19:38/80 20:00	06:41 18:04-18:48/44 19:10	07:13 17:17-17:57/40 18:20 08:20-08:59/39	06:50 13:08-14:08/60 16:41	07:20 12:47-14:30/103 16:32
17	05:41 19:23-20:08/45 20:33	06:11 18:15-19:36/81 19:59	06:42 18:05-18:47/42 19:09	07:14 17:16-17:55/39 18:18 08:20-08:59/39	06:51 13:03-14:09/66 16:40	07:21 12:48-14:31/103 16:32
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19	05:43 19:22-20:06/44 20:31	06:13 18:13-19:33/80 19:56	06:44 18:07-18:43/36 19:05	07:16 17:14-17:51/37 18:15 08:20-08:59/39	06:53 12:57-14:11/74 16:39	07:22 12:49-14:32/103 16:33
20	05:44 19:21-20:05/44 20:30	06:14 18:12-19:31/79 19:55	06:45 18:09-18:41/32 19:03	07:17 17:13-17:50/37 18:14 08:20-08:59/39	06:54 12:56-14:13/77 16:38	07:23 12:50-14:33/103 16:34
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23	05:46 19:20-20:04/44 20:28	06:17 18:08-19:27/79 19:50	06:48 18:17-18:36/19 18:58	07:21 17:09-17:46/37 18:09 08:23-09:04/41	06:58 12:51-14:16/85 16:36	07:24 12:51-14:34/103 16:35
24	05:47 19:20-20:03/43 20:27	06:18 18:07-19:26/79 19:48	06:49 18:23-18:31/8 18:57	07:22 17:08-17:44/36 18:08 08:24-09:04/40	06:59 12:51-14:17/86 16:36	07:25 12:51-14:34/103 16:36
25	05:48 19:19-20:02/43 20:26	06:19 18:07-19:24/77 19:47	06:50 18:55	06:23 16:07-16:43/36 17:07 07:24-08:05/41	07:00 12:50-14:18/88 16:35	07:25 12:52-14:35/103 16:36
26	05:49 19:19-20:02/43 20:25	06:20 18:06-19:23/77 19:45	06:52 18:53	06:24 16:07-16:42/35 17:05 07:26-08:06/40	07:01 12:49-14:19/90 16:34	07:26 12:52-14:35/103 16:37
27	05:50 19:17-20:00/43 20:24	06:21 18:05-19:21/76 19:44	06:53 18:51	06:26 16:06-16:40/34 17:04 07:27-08:06/39	07:03 12:48-14:19/91 16:34	07:26 12:52-14:35/103 16:37
28	05:51 19:17-19:59/42 20:24	06:22 18:04-19:19/75 19:42	06:54 18:50	06:27 16:06-16:39/33 17:03 07:28-08:06/38	07:04 12:47-14:20/93 16:34	07:26 12:54-14:37/103 16:38
29	05:52 19:17-19:58/41 20:23	06:23 18:04-19:18/74 19:41	06:55 18:48	06:28 16:06-16:37/31 17:01 07:29-08:06/37	07:05 12:47-14:20/93 16:33	07:27 12:54-14:37/103 16:39
30	05:53 19:16-19:57/41 20:21	06:24 18:03-19:16/73 19:39	06:56 18:46	06:29 16:06-16:36/30 17:00 07:30-08:06/36	07:06 12:47-14:22/95 16:33	07:27 12:55-14:37/102 16:40
31	05:54 19:16-19:56/40 20:20	06:25 18:03-19:15/72 19:37		06:30 16:06-16:35/29 16:59 07:30-08:06/36		07:27 12:55-14:37/102 16:40
Ore potenziali eliofanìa	460	429	375	345	297	287
Somma minuti d'ombra	1489	2389	1178	2056	1850	3148

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 04 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 15:32-15:54/22 08:06-08:39/33 16:41 09:40-09:51/11	07:14 07:46-08:37/51 17:16	06:37 06:56-07:33/37 17:51	06:46 07:38-08:17/39 19:25	05:59 06:25-07:44/79 19:58	05:30 06:00-07:38/98 20:28	
2	07:27 15:33-15:54/21 08:06-08:40/34 16:42 09:43-09:49/6	07:13 07:45-08:34/49 17:17	06:36 06:55-07:35/40 17:52	06:44 07:40-08:16/36 19:26	05:58 06:24-07:45/81 19:59	05:30 06:00-07:37/97 20:28	
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7	07:27 15:41-15:52/11 16:47 08:07-08:43/36	07:07 07:43-08:27/44 17:24	06:28 06:47-07:40/53 17:58	06:36 19:32	05:52 06:21-07:45/84 20:04	05:28 06:01-07:38/97 20:32	
8	07:27 15:42-15:50/8 16:48 08:08-08:43/35	07:06 07:43-08:25/42 17:25	06:26 06:45-07:40/55 17:59	06:34 19:33	05:51 06:19-07:44/85 20:05	05:28 06:01-07:38/97 20:32	
9	07:27 08:07-08:43/36 16:49	07:05 07:43-08:19/36 17:26	06:24 06:43-07:40/57 18:00	06:33 19:34	05:49 06:16-07:44/88 20:06	05:27 06:00-07:37/97 20:33	
10	07:27 08:07-08:43/36 16:50	07:04 07:44-08:19/35 17:27	06:23 06:42-07:41/59 18:01	06:31 19:35	05:48 06:14-07:43/89 20:07	05:27 06:00-07:37/97 20:34	
11	07:27 08:08-08:44/36 16:51	07:03 07:43-08:17/34 17:29	06:21 06:40-07:40/60 18:02	06:29 07:08-07:18/10 19:36	05:47 06:12-07:43/91 20:08	05:27 06:01-07:37/96 20:34	
12	07:27 08:07-08:43/36 16:52	07:01 07:44-08:17/33 17:30	06:19 06:38-07:40/62 18:03	06:28 07:01-07:24/23 19:37	05:46 06:11-07:43/92 20:09	05:27 06:01-07:38/97 20:35	
13	07:26 08:08-08:44/36 16:53	07:00 07:45-08:16/31 17:31	06:18 06:37-07:40/63 18:04	06:26 06:58-07:28/30 19:38	05:45 06:09-07:43/94 20:10	05:27 06:01-07:38/97 20:35	
14	07:26 08:07-08:45/38 16:54	06:59 07:45-08:13/28 17:32	06:16 06:35-07:40/65 18:05	06:24 06:53-07:30/37 19:39	05:44 06:08-07:43/95 20:11	05:27 06:01-07:38/97 20:36	
15	07:25 08:06-08:44/38 16:55	06:57 07:47-08:11/24 17:34	06:14 06:33-07:39/66 18:07	06:23 06:50-07:33/43 19:40	05:43 06:07-07:42/95 20:12	05:27 06:01-07:38/97 20:36	
16	07:25 08:06-08:45/39 16:56	06:56 07:48-08:08/20 17:35	06:13 06:33-07:39/66 18:08	06:21 06:47-07:34/47 19:41	05:42 06:06-07:42/96 20:13	05:27 06:02-07:38/96 20:36	
17	07:25 08:05-08:44/39 16:58	06:55 07:50-08:05/15 17:36	06:11 06:32-07:39/67 18:09	06:20 06:45-07:37/52 19:43	05:41 06:06-07:43/97 20:14	05:27 06:02-07:38/96 20:37	
18	07:24 08:01-08:44/43 16:59	06:53 07:54-08:02/8 17:37	06:09 06:32-07:38/66 18:10	06:18 06:42-07:37/55 19:44	05:40 06:05-07:42/97 20:15	05:27 06:02-07:38/96 20:37	
19	07:24 08:00-08:44/44 17:00	06:52 17:39	06:08 06:32-07:37/65 18:11	06:17 06:41-07:39/58 19:45	05:39 06:04-07:42/98 20:16	05:27 06:02-07:38/96 20:37	
20	07:23 07:58-08:43/45 17:01	06:51 17:40	06:06 06:31-07:36/65 18:12	06:15 06:39-07:39/60 19:46	05:38 06:03-07:41/98 20:17	05:27 06:03-07:39/96 20:38	
21	07:22 07:57-08:42/45 17:02	06:49 17:41	06:04 06:31-07:35/64 18:13	06:14 06:38-07:41/63 19:47	05:37 06:03-07:41/98 20:18	05:27 06:03-07:39/96 20:38	
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24	07:20 07:56-08:42/46 17:06	06:45 17:45	05:59 06:31-07:31/60 18:16	06:09 06:34-07:42/68 19:50	05:35 06:02-07:40/98 20:21	05:28 06:04-07:40/96 20:38	
25	07:20 07:55-08:42/47 17:07	06:43 17:46	05:58 06:31-07:30/59 18:18	06:08 06:32-07:43/71 19:51	05:34 06:01-07:39/98 20:22	05:28 06:04-07:40/96 20:39	
26	07:19 07:55-08:43/48 17:08	06:42 07:08-07:25/17 17:47	05:56 06:32-07:29/57 18:19	06:06 06:30-07:43/73 19:52	05:34 06:01-07:40/99 20:23	05:28 06:04-07:40/96 20:39	
27	07:18 07:53-08:42/49 17:10	06:40 07:04-07:28/24 17:48	05:54 06:33-07:26/53 18:20	06:05 06:29-07:43/74 19:53	05:33 06:01-07:39/98 20:24	05:29 06:04-07:41/97 20:39	
28	07:17 07:51-08:42/51 17:11	06:39 07:00-07:31/31 17:49	05:53 06:33-07:24/51 18:21	06:04 06:28-07:44/76 19:54	05:32 06:01-07:39/98 20:24	05:29 06:04-07:41/97 20:39	
29	07:16 07:50-08:41/51 17:12		06:51 07:34-08:22/48 19:22	06:02 06:26-07:44/78 19:55	05:32 06:00-07:38/98 20:25	05:30 06:04-07:41/97 20:39	
30	07:15 07:48-08:40/52 17:13		06:49 07:36-08:21/45 19:23	06:01 06:25-07:44/79 19:57	05:31 06:01-07:39/98 20:26	05:30 06:05-07:42/97 20:39	
31	07:15 07:47-08:39/52 17:15		06:47 07:37-08:19/42 19:24		05:31 06:00-07:38/98 20:27		
	Ore potenziali eliofania Somma minuti d'ombra	296 1420	297 708	369 1738	399 1302	449 2869	454 2899

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
 Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 04 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (4)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:30 06:05-07:42/97 20:39	05:55 06:22-07:54/92 20:19	06:26 07:08-07:17/9 19:36	06:57 07:17-08:20/63 18:44	06:31 07:13-07:48/35 16:57	07:07 07:50-08:26/36 16:32	
2	05:31 06:05-07:42/97 20:38	05:56 06:23-07:54/91 20:18	06:27 19:34	06:58 07:18-08:19/61 18:43	06:33 07:13-07:51/38 16:56	07:08 07:50-08:26/36 16:32	
3	05:32 06:05-07:42/97 20:38	05:57 06:25-07:54/89 20:17	06:28 19:32	06:59 07:19-08:18/59 18:41	06:34 07:13-07:55/42 16:55	07:09 07:51-08-27/36 16:32	
4	05:32 06:06-07:43/97 20:38	05:58 06:27-07:54/87 20:16	06:29 19:31	07:00 07:20-08:18/58 18:39	06:35 07:13-07:57/44 16:54	07:10 15:28-15:35/7 16:32	
5	05:33 06:06-07:43/97 20:38	05:59 06:30-07:54/84 20:15	06:30 19:29	07:01 07:21-08:17/56 18:38	06:36 07:13-07:58/45 16:52	07:11 15:26-15:37/11 16:31	
6	05:33 06:06-07:43/97 20:38	06:00 06:31-07:54/83 20:14	06:31 07:45-07:59/14 19:27	07:02 07:22-08:16/54 18:36	06:37 07:14-08:00/46 16:51	07:12 15:26-15:39/13 16:31	
7	05:34 06:07-07:44/97 20:37	06:01 06:31-07:54/83 20:12	06:32 07:41-08:03/22 19:26	07:03 07:23-08:15/52 18:34	06:39 07:14-08:01/47 16:50	07:13 15:25-15:40/15 16:31	
8	05:34 06:07-07:44/97 20:37	06:02 06:31-07:54/83 20:11	06:33 07:38-08:06/28 19:24	07:04 07:24-08:13/49 18:33	06:40 07:14-08:02/48 16:49	07:14 15:24-15:41/17 16:31	
9	05:35 06:07-07:45/98 20:37	06:03 06:32-07:54/82 20:10	06:34 07:35-08:08/33 19:22	07:05 07:26-08:13/47 18:31	06:41 07:16-08:05/49 16:48	07:15 15:23-15:42/19 16:31	
10	05:36 06:08-07:45/97 20:36	06:04 06:32-07:54/82 20:08	06:35 07:33-08:09/36 19:21	07:06 07:27-08:11/44 18:30	06:42 07:17-08:08/51 16:47	07:16 15:22-15:43/21 16:31	
11	05:37 06:08-07:45/97 20:36	06:05 06:33-07:53/80 20:07	06:36 07:32-08:10/38 19:19	07:07 07:28-08:10/42 18:28	06:44 07:18-08:10/52 16:46	07:16 15:22-15:44/22 16:31	
12	05:37 06:08-07:46/98 20:35	06:06 06:34-07:53/79 20:06	06:37 07:30-08:11/41 19:17	07:08 07:29-08:08/39 18:26	06:45 07:19-08:11/52 16:45	07:17 15:22-15:45/23 16:31	
13	05:38 06:09-07:47/98 20:35	06:07 06:34-07:53/79 20:04	06:38 07:27-08:12/45 19:15	07:10 07:31-08:06/35 18:25	06:46 07:22-08:13/51 16:44	07:18 15:22-15:45/23 16:31	
14	05:39 06:09-07:47/98 20:34	06:08 06:35-07:52/77 20:03	06:39 07:25-08:13/48 19:14	07:11 07:35-08:03/28 18:23	06:47 07:23-08:14/51 16:43	07:19 15:22-15:46/24 16:32	
15	05:40 06:09-07:47/98 20:34	06:09 06:36-07:52/76 20:02	06:40 07:24-08:14/50 19:12	07:12 07:38-08:00/22 18:22	06:48 07:25-08:14/49 16:42	07:20 15:22-15:46/24 16:32	
16	05:40 06:10-07:48/98 20:33	06:10 06:37-07:51/74 20:00	06:41 07:22-08:15/53 19:10	07:13 07:43-07:56/13 18:20	06:50 07:28-08:16/48 16:41	07:20 15:22-15:47/25 16:32	
17	05:41 06:10-07:49/99 20:32	06:11 06:37-07:49/72 19:59	06:42 07:21-08:16/55 19:09	07:14 18:18	06:51 07:29-08:16/47 16:40	07:21 15:23-15:48/25 16:32	
18	05:42 06:11-07:49/98 20:32	06:12 06:38-07:48/70 19:57	06:43 07:20-08:18/58 19:07	07:15 18:17	06:52 07:30-08:16/46 16:40	07:22 15:22-15:48/26 16:33	
19	05:43 06:11-07:49/98 20:31	06:13 06:40-07:48/68 19:56	06:44 07:19-08:18/59 19:05	07:16 18:15	06:53 07:30-08:17/47 16:39	07:22 15:23-15:49/26 16:33	
20	05:44 06:11-07:50/99 20:30	06:14 06:40-07:47/67 19:54	06:45 07:18-08:19/61 19:03	07:17 18:14	06:54 07:32-08:18/46 16:38	07:23 15:23-15:49/26 16:33	
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30	05:53 06:19-07:53/94 20:21	06:24 06:58-07:28/30 19:39	06:56 07:16-08:20/64 18:46	06:29 07:14-07:47/33 17:00	07:06 07:49-08:25/36 16:33	07:27 15:30-15:53/23 16:39	
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	Ore potenziali eliofanía Somma minuti d'ombra	460 3013	429 2128	375 1301	345 920	297 1336	287 2184

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
 Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 05 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 13:11-14:05/54 11:11-11:27/16	07:14 08:57-09:50/53	06:37 08:21-08:43/22	06:46 08:15-08:46/31	05:59	05:30 06:04-06:39/35
	16:41 11:30-12:07/37 09:07-09:27/20	17:16 08:32-08:44/12	17:50 07:13-08:07/54	19:25	19:58	20:28
2	07:27 13:12-14:05/53 11:13-11:25/12	07:13 08:57-09:50/53	06:36 07:12-08:07/55	06:44 08:17-08:44/27	05:58	05:30 06:04-06:39/35
	16:42 11:31-12:06/35 09:06-09:28/22	17:17 08:29-08:47/18	17:52 08:25-08:36/11	19:26	19:59	20:28
3	07:28 13:13-14:05/52 11:15-11:23/8	07:12 08:57-09:50/53	06:34 07:11-08:06/55	06:42 08:19-08:41/22	05:57 06:24-06:36/12	05:29 06:05-06:39/34
	16:43 11:32-12:05/33 09:06-09:30/24	17:18 08:26-08:50/24	17:53	19:27	20:00	20:29
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	16:44 11:33-12:03/30	17:20 08:23-08:52/29	17:54	19:28 07:07-07:08/1	20:01	20:30
5	07:28 13:16-14:05/49 09:05-09:32/27	07:09 08:57-09:48/51	06:31 07:07-08:05/58	06:39 07:02-07:13/11	05:54 06:20-06:40/20	05:28 06:05-06:38/33
	16:45 11:35-12:00/25	17:21 08:21-08:53/32	17:55	19:29	20:02	20:30
6	07:28 13:17-14:05/48 09:05-09:33/28	07:08 08:58-09:48/50	06:29 07:04-08:04/60	06:37 06:59-07:15/16	05:53 06:19-06:41/22	05:28 06:05-06:37/32
	16:46 11:37-11:59/22	17:22 08:19-08:54/35	17:56	19:31	20:03	20:31
7	07:27 13:19-14:05/46 11:39-11:58/19	07:07 08:58-09:47/49	06:28 07:03-08:03/60	06:36 06:57-07:16/19	05:52 06:18-06:42/24	05:28 06:06-06:37/31
	16:47 09:05-09:35/30	17:23 08:18-08:55/37	17:57	19:32	20:04	20:32
8	07:27 13:20-14:04/44 11:41-11:55/14	07:06 08:59-09:46/47	06:26 07:01-08:01/60	06:34 06:57-07:17/20	05:51 06:16-06:42/26	05:28 06:06-06:37/31
	16:48 09:04-09:35/31	17:25 08:17-08:56/39	17:59	19:33	20:05	20:32
9	07:27 13:22-14:03/41 11:47-11:51/4	07:05 09:00-09:46/46	06:24 06:56-07:59/63	06:32 06:54-07:17/23	05:49 06:15-06:43/28	05:27 06:06-06:36/30
	16:49 09:04-09:36/32	17:26 08:17-08:57/40	18:00	19:34	20:06	20:33
10	07:27 13:24-14:03/39	07:04 09:00-09:45/45	06:23 06:54-07:58/64	06:31 06:52-07:18/26	05:48 06:14-06:43/29	05:27 06:07-06:36/29
	16:50 09:04-09:38/34	17:27 08:16-08:58/42	18:01	19:35	20:07	20:34
11	07:27 13:27-14:02/35	07:03 09:00-09:42/42	06:21 06:51-07:56/65	06:29 06:51-07:17/26	05:47 06:13-06:44/31	05:27 06:07-06:36/29
	16:51 09:04-09:39/35	17:29 08:15-08:58/43	18:02	19:36	20:08	20:34
12	07:27 13:30-14:01/31	07:01 09:02-09:41/39	06:19 06:49-07:57/68	06:28 06:49-07:16/27	05:46 06:12-06:44/32	05:27 06:07-06:36/29
	16:52 09:02-09:39/37	17:30 08:14-08:59/45	18:03	19:37	20:09	20:35
13	07:26 13:39-13:59/20	07:00 09:03-09:39/36	06:18 06:49-07:58/69	06:26 06:49-07:17/28	05:45 06:12-06:44/32	05:27 06:08-06:35/27
	16:53 09:02-09:41/39	17:31 08:14-08:59/45	18:04	19:38	20:10	20:35
14	07:26 13:42-13:57/15	06:59 09:03-09:36/33	06:16 06:48-07:58/70	06:24 06:48-07:16/28	05:44 06:11-06:44/33	05:27 06:08-06:35/27
	16:54 09:01-09:41/40	17:32 08:13-08:59/46	18:05	19:39	20:11	20:36
15	07:25 13:49-13:52/3	06:57 09:05-09:34/29	06:14 06:47-07:59/72	06:23 06:47-07:16/29	05:43 06:09-06:44/35	05:27 06:08-06:35/27
	16:55 09:01-09:43/42	17:34 08:13-08:59/46	18:07	19:40	20:12	20:36
16	07:25 09:00-09:43/43	06:56 09:07-09:33/26	06:13 06:47-08:00/73	06:21 06:46-07:15/29	05:42 06:07-06:44/37	05:27 06:09-06:35/26
	16:56	17:35 08:13-09:00/47	18:08	19:41	20:13	20:36
17	07:25 09:00-09:44/44	06:55 09:09-09:29/20 07:50-07:52/2	06:11 06:47-07:59/72	06:20 06:46-07:15/29	05:41 06:07-06:45/38	05:27 06:09-06:35/26
	16:57	17:36 08:13-08:59/46	18:09	19:42	20:14	20:37
18	07:24 08:59-09:45/46	06:53 09:13-09:25/12 07:44-07:58/14	06:09 06:47-07:59/72	06:18 06:45-07:14/29	05:40 06:06-06:44/38	05:27 06:09-06:35/26
	16:59	17:37 08:13-08:59/46	18:10	19:44	20:15	20:37
19	07:24 08:59-09:46/47	06:52 08:13-08:58/45	06:08 06:48-07:59/71	06:17 06:45-07:14/29	05:39 06:05-06:44/39	05:27 06:09-06:34/25
	17:00	17:38 07:40-08:00/20	18:11	19:45	20:16	20:37
20	07:23 08:58-09:46/48	06:51 08:13-08:58/45	06:06 06:49-07:59/70	06:15 06:44-07:13/29	05:38 06:05-06:43/38	05:27 06:10-06:35/25
	17:01	17:40 07:38-08:03/25	18:12	19:46	20:17	20:38
21	07:22 08:58-09:47/49	06:49 08:13-08:57/44	06:04 07:01-07:58/57	06:14 06:45-07:12/27	05:37 06:04-06:43/39	05:27 06:10-06:35/25
	17:02	17:41 07:35-08:04/29	18:13 06:51-06:58/7	19:47	20:18	20:38
22	07:22 08:58-09:48/50	06:48 08:14-08:56/42 07:24-07:33/9	06:03 07:02-07:58/56	06:12 06:44-07:10/26	05:37 06:04-06:43/39	05:27 06:10-06:35/25
	17:03	17:42 07:34-08:05/31	18:14	19:48	20:19	20:38
23	07:21 08:58-09:48/50	06:46 08:15-08:56/41	06:01 07:05-07:58/53	06:11 06:45-07:09/24	05:36 06:04-06:43/39	05:28 06:10-06:35/25
	17:05	17:43 07:23-08:06/43	18:15	19:49	20:20	20:38
24	07:20 08:57-09:48/51	06:45 08:15-08:54/39	05:59 07:07-07:57/50	06:09 06:45-07:07/22	05:35 06:03-06:42/39	05:28 06:11-06:36/25
	17:06	17:45 07:20-08:07/47	18:16	19:50	20:21	20:38
25	07:20 08:57-09:49/52	06:43 08:15-08:52/37	05:58 07:09-07:56/47	06:08 06:46-07:06/20	05:34 06:03-06:41/38	05:28 06:11-06:37/26
	17:07	17:46 07:19-08:07/48	18:18	19:51	20:22	20:39
26	07:19 08:57-09:50/53	06:42 08:17-08:51/34	05:56 07:12-07:55/43	06:06 06:47-07:04/17	05:34 06:04-06:41/37	05:28 06:11-06:37/26
	17:08	17:47 07:17-08:07/50	18:19	19:52	20:23	20:39
27	07:18 08:57-09:50/53	06:40 08:17-08:48/31	05:54 07:12-07:54/42	06:05 06:49-07:02/13	05:33 06:03-06:40/37	05:29 06:12-06:38/26
	17:10	17:48 07:15-08:07/52	18:20	19:53	20:23	20:39
28	07:17 08:57-09:50/53	06:39 08:19-08:46/27	05:52 07:12-07:52/40	06:03 06:51-07:00/9	05:32 06:04-06:40/36	05:29 06:11-06:38/27
	17:11	17:49 07:15-08:07/52	18:21	19:54	20:24	20:39
29	07:16 08:57-09:50/53	-	06:51 08:12-08:51/39	06:02	05:32 06:03-06:40/37	05:30 06:11-06:38/27
	17:12	-	19:22	19:55	20:25	20:39
30	07:15 08:57-09:50/53	-	06:49 08:14-08:50/36	06:01	05:31 06:04-06:40/36	05:30 06:12-06:39/27
	17:13	-	19:23	19:57	20:26	20:39
31	07:15 08:57-09:50/53	-	06:47 08:14-08:48/34	-	05:31 06:04-06:39/35	-
	17:15	-	19:24	-	20:27	-
Ore potenziali eliofanìa	296	297	369	399	449	454
Somma minuti d'ombra	2099	2215	1823	653	943	850

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
 Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 05 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (5)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 06:11-06:40/29 20:39	05:55 06:23-06:54/31 20:19	06:26 06:50-07:16/26 19:36	06:57 07:28-08:37/69 18:44	06:31 08:29-09:14/45 16:57 07:45-08:27/42	07:07 13:09-13:44/35 16:32 08:46-09:21/35
2	05:31 06:12-06:41/29 20:38	05:56 06:24-06:54/30 20:18	06:27 06:50-07:16/26 19:34	06:58 07:29-08:35/66 18:43	06:33 08:28-09:15/47 16:56 07:46-08:26/40	07:08 13:07-13:46/39 16:32 08:47-09:21/34
3	05:31 06:11-06:41/30 20:38	05:57 06:25-06:54/29 20:17	06:28 06:52-07:15/23 19:32	06:59 07:31-08:34/63 18:41	06:34 08:28-09:16/48 16:55 07:47-08:26/39	07:09 13:06-13:47/41 11:32-11:34/2 16:32 08:48-09:20/32
4	05:32 06:12-06:42/30 20:38	05:58 06:26-06:53/27 20:16	06:29 06:54-07:14/20 19:31	07:00 07:33-08:36/63 18:39	06:35 08:28-09:17/49 16:54 07:48-08:25/37	07:10 13:05-13:49/44 11:27-11:40/13 16:32 08:49-09:20/31
5	05:33 06:11-06:42/31 20:38	05:59 06:27-06:52/25 20:15	06:30 06:54-07:13/19 19:29	07:01 07:36-08:37/61 18:38	06:36 08:27-09:18/51 16:52 07:49-08:23/34	07:11 13:04-13:50/46 11:25-11:43/18 16:31 08:50-09:20/30
6	05:33 06:12-06:43/31 20:38	06:00 06:28-06:51/23 20:13	06:31 06:55-07:11/16 19:27	07:02 07:38-08:38/60 18:36	06:37 08:28-09:19/51 16:51 07:52-08:23/31	07:12 13:03-13:51/48 08:51-09:19/28 16:31 11:23-11:45/22
7	05:34 06:12-06:44/32 20:37	06:01 06:29-06:50/21 20:12	06:32 06:57-07:09/12 19:26	07:03 07:39-08:39/60 18:34	06:39 08:27-09:19/52 16:50 07:53-08:21/28	07:13 13:03-13:52/49 08:52-09:19/27 16:31 11:22-11:47/25
8	05:34 06:11-06:45/34 20:37	06:02 06:30-06:49/19 20:11	06:33 08:17-08:31/14 19:24 07:01-07:04/3	07:04 07:40-08:39/59 18:33	06:40 08:27-09:20/53 16:49 07:56-08:19/23	07:14 13:03-13:53/50 08:54-09:19/25 16:31 11:22-11:51/29
9	05:35 06:12-06:46/34 20:37	06:03 06:32-06:47/15 20:10	06:34 08:13-08:35/22 19:22	07:05 07:45-08:41/56 18:31	06:41 08:28-09:21/53 16:48 08:00-08:18/18	07:15 13:02-13:54/52 11:05-11:12/7 16:31 11:21-11:54/33 08:55-09:19/24
10	05:36 06:12-06:47/35 20:36	06:04 06:34-06:44/10 20:08	06:35 08:11-08:37/26 19:21	07:06 07:45-08:41/56 18:29	06:42 08:28-09:21/53 16:47 08:03-08:14/11	07:16 13:01-13:55/54 11:01-11:16/15 16:31 11:20-11:55/35 08:55-09:17/22
11	05:36 06:12-06:46/34 20:36	06:05 06:34-06:44/10 20:07	06:36 08:09-08:38/29 19:19	07:07 07:45-08:41/56 18:28	06:44 08:28-09:21/53 16:46	07:16 13:01-13:55/54 11:01-11:16/15 16:31 11:20-11:57/37 08:57-09:17/20
12	05:37 06:12-06:47/35 20:35	06:06 06:34-06:44/10 20:06	06:37 08:07-08:40/33 19:17	07:08 08:57-09:13/16 18:26 07:46-08:41/55	06:45 08:28-09:21/53 16:45	07:17 13:02-13:56/54 11:00-11:18/18 16:31 11:20-11:58/38 08:58-09:17/19
13	05:38 06:12-06:48/36 20:35	06:07 06:34-06:44/10 20:04	06:38 08:05-08:41/36 19:15	07:10 08:54-09:18/24 18:25 07:47-08:40/53	06:46 08:29-09:22/53 16:44	07:18 13:02-13:57/55 08:59-09:17/18 16:31 11:00-12:00/60
14	05:39 06:13-06:48/35 20:34	06:08 06:34-06:44/10 20:03	06:39 08:04-08:42/38 19:14	07:11 08:51-09:20/29 18:23 07:48-08:40/52	06:47 08:29-09:22/53 16:43	07:19 13:02-13:58/56 09:01-09:17/16 16:32 11:00-12:01/61
15	05:39 06:12-06:49/37 20:34	06:09 06:58-07:08/10 20:02	06:40 08:03-08:42/39 19:12	07:12 08:49-09:22/33 18:21 07:48-08:39/51	06:48 08:29-09:22/53 16:42	07:20 13:02-13:58/56 09:01-09:16/15 16:32 10:59-12:01/62
16	05:40 06:12-06:49/37 20:33	06:10 06:56-07:11/15 20:00	06:41 08:01-08:43/42 19:10	07:13 08:49-09:24/35 18:20 07:50-08:40/50	06:50 08:30-09:23/53 16:41	07:20 13:02-13:59/57 09:03-09:16/13 16:32 10:59-12:03/64
17	05:41 06:13-06:50/37 20:32	06:11 06:53-07:11/18 19:59	06:42 08:00-08:43/43 19:09	07:14 08:47-09:25/38 18:18 07:51-08:39/48	06:51 08:31-09:23/52 16:40	07:21 13:03-14:00/57 09:04-09:16/12 16:32 11:00-12:04/64
18	05:42 06:13-06:51/38 20:32	06:12 06:52-07:12/20 19:57	06:43 07:58-08:44/46 19:07	07:15 08:46-09:26/40 18:17 07:52-08:38/46	06:52 08:31-09:22/51 16:40	07:22 13:02-14:00/58 09:05-09:15/10 16:33 10:59-12:04/65
19	05:43 06:13-06:51/38 20:31	06:13 06:51-07:13/22 19:56	06:44 07:55-08:44/49 19:05	07:16 08:45-09:27/42 18:15 07:54-08:37/43	06:53 08:32-09:22/50 16:39	07:22 13:03-14:01/58 09:06-09:16/10 16:33 11:00-12:05/65
20	05:44 06:13-06:52/39 20:30	06:14 06:50-07:14/24 19:54	06:45 07:53-08:44/51 19:03	07:17 08:44-09:27/43 07:56-08:03/7 18:14 08:05-08:35/30	06:54 08:33-09:23/50 16:38	07:23 13:03-14:01/58 09:06-09:15/9 16:33 11:00-12:05/65
21	05:44 06:14-06:53/39 20:30	06:15 06:49-07:15/26 19:53	06:46 07:49-08:44/55 19:02	07:19 08:43-09:27/44 18:12 08:06-08:34/28	06:56 08:34-09:23/49 16:37	07:23 13:04-14:02/58 09:08-09:16/8 16:34 11:00-12:06/66
22	05:45 06:14-06:53/39 20:29	06:16 06:49-07:16/27 19:51	06:47 07:47-08:44/57 19:00 07:38-07:43/5	07:20 08:44-09:29/45 18:11 08:09-08:33/24	06:57 08:34-09:22/48 16:37	07:24 13:04-14:02/58 09:08-09:16/8 16:34 11:00-12:06/66
23	05:46 06:15-06:54/39 20:28	06:17 06:48-07:17/29 19:50	06:48 07:34-08:43/69 18:58	07:21 08:43-09:29/46 18:09 08:12-08:30/18	06:58 08:35-09:22/47 16:36	07:24 13:05-14:03/58 09:08-09:17/9 16:35 11:01-12:07/66
24	05:47 06:16-06:54/38 20:27	06:18 06:48-07:17/29 19:48	06:49 07:32-08:43/71 18:56	07:22 09:42-09:56/14 08:15-08:27/12 18:08 08:43-09:29/46	06:59 08:37-09:23/46 16:35	07:25 13:05-14:03/58 09:08-09:18/10 16:35 11:02-12:07/65
25	05:48 06:16-06:55/39 20:26	06:19 06:48-07:17/29 19:47	06:50 07:31-08:43/72 18:55	07:23 08:38-09:00/22 17:07 07:42-08:28/46	07:00 08:38-09:22/44 16:35	07:25 13:06-14:04/58 09:09-09:19/10 16:36 11:03-12:08/65
26	05:49 06:17-06:55/38 20:25	06:20 06:48-07:17/29 19:45	06:51 07:30-08:42/72 18:53	07:24 08:37-09:03/26 17:05 07:43-08:29/46	07:01 08:39-09:22/43 16:34	07:26 13:06-14:04/58 09:08-09:20/12 16:37 11:03-12:08/65
27	05:50 06:17-06:54/37 20:24	06:21 06:48-07:17/29 19:44	06:52 07:29-08:41/72 18:51	07:25 08:35-09:04/29 17:04 07:43-08:29/46	07:02 08:40-09:22/42 16:34	07:26 13:07-14:04/57 09:08-09:21/13 16:37 11:04-12:08/64
28	05:51 06:19-06:54/35 20:23	06:22 06:48-07:17/29 19:42	06:53 07:28-08:40/72 18:50	07:26 08:33-09:06/33 17:02 07:43-08:28/45	07:04 13:22-13:36/14 16:33 08:41-09:21/40	07:26 13:07-14:04/57 09:07-09:22/15 16:38 11:05-12:08/63
29	05:52 06:20-06:55/35 20:22	06:23 06:49-07:17/28 19:40	06:55 07:28-08:39/71 18:48	07:28 08:31-09:08/37 17:01 07:43-08:28/45	07:05 13:20-13:39/19 16:33 08:42-09:21/39	07:27 13:09-14:05/56 09:08-09:24/16 16:39 11:06-12:08/62
30	05:53 06:22-06:55/33 20:21	06:24 06:49-07:16/27 19:39	06:56 07:28-08:38/70 18:46	07:29 08:31-09:11/40 17:00 07:44-08:28/44	07:06 13:12-13:43/31 16:33 08:44-09:21/37	07:27 13:10-14:05/55 09:08-09:25/17 16:39 11:07-12:08/61
31	05:54 06:23-06:54/31 20:20	06:25 06:49-07:16/27 19:37	06:57 07:28-08:38/70 18:45	07:30 08:30-09:12/42 16:58 07:45-08:28/43	07:07 13:11-13:43/31 16:33 08:44-09:21/37	07:27 13:10-14:05/55 09:07-09:26/19 16:40 11:09-12:07/58
Ore potenziali eliofania	460	429	375	345	297	286
Somma minuti d'ombra	1084	648	1299	2225	1825	3726

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 06 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (6)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 08:09-09:02/53 16:41	07:14 08:14-08:48/34 17:16	06:37 07:30-07:53/23 17:51	06:46 19:25	05:59 19:58	05:30 20:28
2	07:27 08:08-09:02/54 16:42	07:13 08:15-08:47/32 17:17	06:36 07:28-07:56/28 17:52	06:44 19:26	05:58 19:59	05:30 20:28
3	07:28 08:08-09:03/55 16:43	07:12 08:16-08:46/30 17:18	06:34 07:25-07:57/32 17:53	06:42 19:27	05:57 20:00	05:29 20:29
4	07:28 08:08-09:03/55 16:44	07:11 08:17-08:45/28 17:20	06:32 07:24-07:59/35 17:54	06:41 19:28	05:56 20:01	05:29 20:30
5	07:28 08:08-09:04/56 16:45	07:09 08:18-08:44/26 17:21	06:31 07:09-08:00/51 17:55	06:39 19:30	05:54 20:02	05:28 20:30
6	07:28 08:09-09:04/55 16:46	07:08 08:19-08:42/23 17:22	06:29 07:08-08:00/52 17:56	06:37 19:31	05:53 20:03	05:28 20:31
7	07:27 08:09-09:05/56 16:47	07:07 08:22-08:40/18 17:24	06:28 07:07-08:02/55 17:58	06:36 19:32	05:52 20:04	05:28 20:32
8	07:27 08:08-09:04/56 16:48	07:06 08:25-08:37/12 17:25	06:26 07:05-08:02/57 17:59	06:34 19:33	05:51 20:05	05:28 20:32
9	07:27 08:08-09:05/57 16:49	07:05 17:26	06:24 07:03-08:02/59 18:00	06:33 19:34	05:49 20:06	05:27 20:33
10	07:27 08:08-09:05/57 16:50	07:04 17:27	06:23 07:01-08:03/62 18:01	06:31 19:35	05:48 20:07	05:27 20:34
11	07:27 08:09-09:06/57 16:51	07:03 17:29	06:21 06:59-08:02/63 18:02	06:29 19:36	05:47 20:08	05:27 20:34
12	07:26 08:08-09:05/57 16:52	07:01 17:30	06:19 06:58-08:02/64 18:03	06:28 19:37	05:46 20:09	05:27 20:35
13	07:26 08:08-09:06/58 16:53	07:00 17:31	06:18 06:57-08:02/65 18:04	06:26 19:38	05:45 20:10	05:27 20:35
14	07:26 08:08-09:05/57 16:54	06:59 17:32	06:16 06:55-08:02/67 18:05	06:24 19:39	05:44 20:11	05:27 20:36
15	07:25 08:08-09:05/57 16:55	06:57 17:34	06:14 06:53-08:01/68 18:07	06:23 19:40	05:43 20:12	05:27 20:36
16	07:25 08:08-09:05/57 16:56	06:56 17:35	06:13 06:52-08:01/69 18:08	06:21 19:41	05:42 20:13	05:27 20:36
17	07:25 08:08-09:05/57 16:58	06:55 17:36	06:11 06:51-08:00/69 18:09	06:20 19:42	05:41 20:14	05:27 20:37
18	07:24 08:08-09:04/56 16:59	06:53 17:37	06:09 07:14-07:59/45 18:10	06:18 19:44	05:40 20:15	05:27 20:37
19	07:24 08:09-09:05/56 17:00	06:52 17:39	06:08 07:14-07:58/44 18:11	06:17 19:45	05:39 20:16	05:27 20:37
20	07:23 08:08-09:04/56 17:01	06:51 17:40	06:06 07:15-07:58/43 18:12	06:15 19:46	05:38 20:17	05:27 20:38
21	07:22 08:08-09:03/55 17:02	06:49 17:41	06:04 07:15-07:56/41 18:13	06:14 19:47	05:37 20:18	05:27 20:38
22	07:22 08:09-09:03/54 17:03	06:48 17:42	06:03 07:16-07:54/38 18:14	06:12 19:48	05:37 20:19	05:27 20:38
23	07:21 08:09-09:01/52 17:05	06:46 17:43	06:01 07:17-07:54/37 18:15	06:11 19:49	05:36 20:20	05:28 20:38
24	07:20 08:09-09:00/51 17:06	06:45 17:45	05:59 07:18-07:52/34 18:16	06:09 19:50	05:35 20:21	05:28 20:38
25	07:20 08:09-08:59/50 17:07	06:43 17:46	05:58 07:19-07:49/30 18:18	06:08 19:51	05:34 20:22	05:28 20:39
26	07:19 08:11-08:58/47 17:08	06:42 17:47	05:56 07:21-07:48/27 18:19	06:06 19:52	05:34 20:23	05:28 20:39
27	07:18 08:11-08:56/45 17:10	06:40 07:39-07:44/5 17:48	05:54 07:22-07:45/23 18:20	06:05 19:53	05:33 20:23	05:29 20:39
28	07:17 08:11-08:53/42 17:11	06:39 07:33-07:51/18 17:49	05:53 07:25-07:41/16 18:21	06:04 19:54	05:32 20:24	05:29 20:39
29	07:16 08:12-08:49/37 17:12		06:51 19:22	06:02 19:55	05:32 20:25	05:30 20:39
30	07:15 08:12-08:49/37 17:13		06:49 19:23	06:01 19:57	05:31 20:26	05:30 20:39
31	07:15 08:13-08:48/35 17:15		06:47 19:24		05:31 20:27	
Ore potenziali eliofanìa	296	297	369	399	449	454
Somma minuti d'ombra	1627	226	1482	0	0	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: WTG 06 - VESTAS V150-6.0 6000 150.0 !O! hub: 125,0 m (TOT: 200,0 m) (6)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:31 20:39	05:55 20:19	06:26 19:36	06:57 18:44	07:37-08:42/65 18:44	06:31 16:57	07:07 16:32
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	07:38-08:41/63 18:43	06:33 16:56	07:08 16:32
3	05:32 20:38	05:57 20:17	06:28 19:32	06:59 18:41	07:38-08:40/62 18:41	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	07:39-08:40/61 18:39	06:35 16:54	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	07:41-08:39/58 18:38	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:13	06:31 19:27	07:02 18:36	07:42-08:38/56 18:36	06:37 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	07:43-08:37/54 18:34	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	07:43-08:35/52 18:33	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	07:45-08:35/50 18:31	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	07:59-08:33/34 18:29	06:42 16:47	07:15 16:31
11	05:37 20:36	06:05 20:07	06:36 19:19	07:07 18:28	08:00-08:31/31 18:28	06:44 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	08:02-08:29/27 18:26	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	07:10 18:25	08:04-08:26/22 18:25	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	08:08-08:22/14 18:23	06:47 16:43	07:19 16:32
15	05:40 20:34	06:09 20:02	06:40 19:12	07:12 18:22	08:16-08:30/14 18:22	06:48 16:42	07:20 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	08:12-08:33/21 18:20	06:50 16:41	07:20 16:32
17	05:41 20:32	06:11 19:59	06:42 19:09	07:14 18:18	08:09-08:36/27 18:18	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	08:07-08:37/30 18:17	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	08:05-08:39/34 18:15	06:53 16:39	07:22 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	07:37-07:52/15 18:14	06:54 16:38	07:23 16:34
21	05:45 20:30	06:15 19:53	06:46 19:02	07:19 18:12	08:02-08:41/39 18:12	06:56 16:37	07:24 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	08:01-08:41/40 18:11	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	07:34-07:54/20 18:09	06:58 16:36	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	08:00-08:42/42 18:08	06:59 16:36	07:25 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 17:07	07:33-07:55/22 17:07	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:33-07:56/23 17:05	07:01 16:34	07:26 16:37
27	05:50 20:24	06:21 19:44	06:52 18:51	07:25 17:04	08:02-08:41/39 17:04	07:02 16:34	07:26 16:37
28	05:51 20:23	06:22 19:42	06:54 18:50	07:27 17:02	07:34-08:43/69 17:02	07:04 16:34	07:26 16:38
29	05:52 20:22	06:23 19:40	06:55 18:48	07:28 17:01	08:01-08:41/40 17:01	07:05 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:36-08:42/66 17:00	07:06 16:33	07:27 16:39
31	05:54 20:20	06:25 19:37		06:30 16:58			07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	287	
Somma minuti d'ombra	0	0	867	662	1222	1642	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: 7 - 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:27 16:41	07:14 17:16	06:37 17:50	07:01-07:14/13 19:25	06:46 19:58	05:59 19:58
2	07:27 16:42	07:13 17:17	06:36 17:52	06:56-07:12/16 19:26	06:44 19:59	05:58 19:59
3	07:28 16:43	07:12 17:18	06:34 17:53	06:54-07:10/16 19:27	06:42 19:31	05:57 19:31
4	07:28 16:44	07:11 17:20	06:32 17:54	06:53-07:04/11 19:28	06:41 19:39	05:55 19:39
5	07:28 16:45	07:09 17:21	06:31 17:55	06:51-07:03/12 19:29	06:39 19:29	05:54 19:29
6	07:28 16:46	07:08 17:22	06:29 17:56	06:48-07:01/13 19:31	06:37 19:31	05:53 19:31
7	07:27 16:47	07:07 17:23	06:28 17:57	06:47-06:59/12 19:32	06:36 19:32	05:52 19:32
8	07:27 16:48	07:06 17:25	06:26 17:59	06:45-06:58/13 19:33	06:34 19:33	05:51 19:33
9	07:27 16:49	07:05 17:26	06:24 18:00	06:45-06:56/11 19:34	06:32 19:34	05:49 19:34
10	07:27 16:50	07:04 17:27	06:23 18:01	06:46-06:56/10 19:35	06:31 19:35	05:48 19:35
11	07:27 16:51	07:02 17:29	06:21 18:02	06:46-06:55/9 19:36	06:29 19:36	05:47 19:36
12	07:26 16:52	07:01 17:30	06:19 18:03	06:49-06:52/3 19:37	06:28 19:37	05:46 19:37
13	07:26 16:53	07:00 17:31	06:18 18:04	06:48-06:51/4 19:38	06:26 19:38	05:45 19:38
14	07:26 16:54	06:59 17:32	06:16 18:05	06:59-06:52/5 19:39	06:24 19:39	05:44 19:39
15	07:25 16:55	06:57 17:34	06:14 18:07	06:57-06:50/6 19:40	06:23 19:40	05:43 19:40
16	07:25 16:56	06:56 17:35	06:13 18:08	06:56-06:49/7 19:41	06:21 19:41	05:42 19:41
17	07:25 16:57	06:55 17:36	06:11 18:09	06:55-06:48/8 19:42	06:20 19:42	05:41 19:42
18	07:24 16:59	06:53 17:37	06:09 18:10	06:54-06:47/9 19:43	06:18 19:43	05:40 19:43
19	07:24 17:00	06:52 17:38	06:08 18:11	06:53-06:46/10 19:44	06:17 19:44	05:39 19:44
20	07:23 17:01	06:51 17:40	06:06 18:12	06:52-06:45/11 19:45	06:15 19:45	05:38 19:45
21	07:22 17:02	06:49 17:41	06:04 18:13	06:51-06:44/12 19:46	06:14 19:46	05:37 19:46
22	07:22 17:03	06:48 17:42	06:03 18:14	06:50-06:43/13 19:47	06:12 19:47	05:37 19:47
23	07:21 17:05	06:46 17:43	06:01 18:15	06:49-06:42/14 19:48	06:11 19:48	05:36 19:48
24	07:20 17:06	06:45 17:44	05:59 18:16	06:48-06:41/15 19:49	06:09 19:49	05:35 19:49
25	07:20 17:07	06:43 17:45	05:58 18:17	06:47-06:40/16 19:50	06:08 19:50	05:34 19:50
26	07:19 17:08	06:42 17:46	05:56 18:18	06:46-06:39/17 19:51	06:06 19:51	05:34 19:51
27	07:18 17:10	06:40 17:48	05:54 18:20	06:45-06:38/18 19:52	06:05 19:52	05:33 19:52
28	07:17 17:11	06:39 17:49	05:52 18:21	06:44-06:37/19 19:53	06:03 19:53	05:32 19:53
29	07:16 17:12		06:51 19:22	06:43-06:36/20 19:54	06:02 19:54	05:32 19:54
30	07:15 17:13		06:49 19:23	06:42-06:35/21 19:55	06:01 19:55	05:31 19:55
31	07:15 17:15		06:47 19:24	06:41-06:34/22 19:56	06:00 19:56	05:31 19:56
Ore potenziali eliofanìa	296	297	369	399	449	454
Somma minuti d'ombra	0	61	139	39	3	112

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: 7 - 1000 55.0 !-! hub: 60,0 m (TOT: 87,5 m) (112)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 05:53-05:57/4	05:55	06:26	06:57	06:31	07:07
	20:39	20:19	19:36	18:44	16:57	16:32
2	05:31 05:54-05:58/4	05:56	06:27	06:58 07:27-07:33/6	06:33	07:08
	20:38	20:18	19:34	18:43	16:56	16:32
3	05:31 05:54-05:58/4	05:57	06:28	06:59 07:24-07:33/9	06:34	07:09
	20:38	20:17	19:32	18:41	16:55	16:32
4	05:32 05:55-05:58/3	05:58	06:29 06:50-06:52/2	07:00 07:23-07:33/10	06:35	07:10
	20:38	20:16	19:31	18:39	16:53	16:32
5	05:33 05:55-05:58/3	05:59	06:30 06:51-06:53/2	07:01 07:22-07:34/12	06:36	07:11
	20:38	20:15	19:29	18:38	16:52	16:31
6	05:33 05:56-05:58/2	06:00	06:31 06:52-06:53/1	07:02 07:22-07:35/13	06:37	07:12
	20:38	20:13	19:27	18:36	16:51	16:31
7	05:34 05:57-05:59/2	06:01	06:32 06:53-06:56/3	07:03 07:23-07:36/13	06:39	07:13
	20:37	20:12	19:26	18:34	16:50	16:31
8	05:34 05:57-05:58/1	06:02	06:33 06:54-06:56/2	07:04 07:24-07:37/13	06:40	07:14
	20:37	20:11	19:24	18:33	16:49	16:31
9	05:35	06:03	06:34 06:55-06:56/1	07:05 07:27-07:39/12	06:41	07:15
	20:37	20:10	19:22	18:31	16:48	16:31
10	05:36	06:04	06:35 06:56-06:57/1	07:06 07:39-07:44/5	06:42	07:15
	20:36	20:08	19:21	18:29 07:28-07:38/10	16:47	16:31
11	05:36	06:05 06:27-06:29/2	06:36	07:07 07:29-07:45/16	06:44	07:16
	20:36	20:07	19:19	18:28	16:46	16:31
12	05:37	06:06 06:28-06:31/3	06:37	07:08 07:30-07:47/17	06:45	07:17
	20:35	20:06	19:17	18:26	16:45	16:31
13	05:38	06:07 06:29-06:31/2	06:38	07:09 07:34-07:48/14	06:46	07:18
	20:35	20:04	19:15	18:25	16:44	16:31
14	05:39	06:08 06:30-06:31/1	06:39	07:11 07:34-07:49/15	06:47	07:19
	20:34	20:03	19:14	18:23	16:43	16:32
15	05:39	06:09	06:40	07:12 07:36-07:49/13	06:48	07:19
	20:34	20:02	19:12	18:21	16:42	16:32
16	05:40	06:10 06:32-06:36/4	06:41	07:13 07:38-07:49/11	06:50	07:20
	20:33	20:00	19:10	18:20	16:41	16:32
17	05:41	06:11 06:32-06:36/4	06:42	07:14 07:39-07:48/9	06:51	07:21
	20:32	19:59	19:08	18:18	16:40	16:32
18	05:42	06:12 06:33-06:37/4	06:43	07:15 07:40-07:46/6	06:52	07:22
	20:32	19:57	19:07	18:17	16:40	16:33
19	05:43	06:13 06:34-06:37/3	06:44	07:16 07:41-07:45/4	06:53	07:22
	20:31	19:56	19:05	18:15	16:39	16:33
20	05:44	06:14 06:35-06:39/4	06:45	07:17	06:54	07:23
	20:30	19:54	19:03	18:14	16:38	16:33
21	05:44	06:15 06:36-06:39/3	06:46	07:18	06:55	07:23
	20:30	19:53	19:02	18:12	16:37	16:34
22	05:45	06:16 06:37-06:39/2	06:47	07:20	06:57	07:24
	20:29	19:51	19:00	18:11	16:37	16:34
23	05:46	06:17	06:48	07:21	06:58	07:24
	20:28	19:50	18:58	18:09	16:36	16:35
24	05:47	06:18	06:49	07:22	06:59	07:25
	20:27	19:48	18:56	18:08	16:35	16:35
25	05:48	06:19	06:50	06:23	07:00	07:25
	20:26	19:47	18:55	17:07	16:35	16:36
26	05:49	06:20	06:51	06:24	07:01	07:26
	20:25	19:45	18:53	17:05	16:34	16:37
27	05:50	06:21	06:52	06:25	07:02	07:26
	20:24	19:44	18:51	17:04	16:34	16:37
28	05:51	06:22	06:53	06:27	07:04	07:26
	20:23	19:42	18:50	17:02	16:33	16:38
29	05:52	06:23	06:55	06:28	07:05	07:27
	20:22	19:40	18:48	17:01	16:33	16:39
30	05:53	06:24	06:56	06:29	07:06	07:27
	20:21	19:39	18:46	17:00	16:33	16:39
31	05:54	06:25		06:30		07:27
	20:20	19:37		16:58		16:40
Ore potenziali eliofanìa	460	429	375	345	297	287
Somma minuti d'ombra	23	32	12	208	0	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
 Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: 8 - NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	
1	07:27 16:41	07:14 17:16	08:13-09:02/49 17:50	06:37 17:50	07:45-08:48/63 19:25	05:59 19:58	05:30 20:28
2	07:27 16:42	07:13 17:17	08:12-09:02/50 17:52	06:36 17:52	07:46-08:46/60 19:26	05:58 19:59	05:30 20:28
3	07:28 16:43	07:12 17:18	08:11-09:03/52 17:53	06:34 17:53	08:14-08:42/28 07:46-08:13/27	05:57 20:00	05:29 20:29
4	07:28 16:44	07:11 17:20	08:10-09:04/54 17:54	06:32 17:54	08:17-08:37/20 07:47-08:10/23	05:55 20:01	05:29 20:30
5	07:28 16:45	07:09 17:21	08:08-09:03/55 17:55	06:31 17:55	07:49-08:08/19 19:29	05:54 20:02	05:28 20:30
6	07:28 16:46	07:08 17:22	08:07-09:04/57 17:56	06:29 17:56	07:50-08:05/15 19:31	05:53 20:03	05:28 20:31
7	07:27 16:47	07:07 17:23	08:00-09:04/64 17:57	06:28 17:57	07:55-08:01/6 19:32	05:52 20:04	05:28 20:32
8	07:27 16:48	07:06 17:25	07:58-09:05/67 17:59	06:26 17:59	19:33	05:51 20:05	05:27 20:32
9	07:27 16:49	07:05 17:26	07:56-09:05/69 18:00	06:24 18:00	19:34	05:49 20:06	05:27 20:33
10	07:27 16:50	07:04 17:27	07:54-09:04/70 18:01	06:23 18:01	06:54-07:03/9 19:35	05:48 20:07	05:27 20:34
11	07:27 16:51	07:02 17:29	07:53-09:04/71 18:02	06:21 18:02	07:02-07:08/6 19:36	05:47 20:08	05:27 20:34
12	07:26 16:52	07:01 17:30	07:53-09:04/71 18:03	06:19 18:03	06:58-07:10/12 19:37	05:46 20:09	05:27 20:35
13	07:26 16:53	07:00 17:31	07:52-09:05/73 18:04	06:18 18:04	06:57-07:13/16 19:38	05:45 20:10	05:27 20:35
14	07:26 16:54	06:59 17:32	07:51-09:03/72 18:05	06:16 18:05	06:55-07:13/18 19:39	05:44 20:11	05:27 20:36
15	07:25 16:55	06:57 17:34	07:50-09:03/73 18:07	06:14 18:07	06:53-07:13/20 19:40	05:43 20:12	05:27 20:36
16	07:25 16:56	06:56 17:35	07:49-09:03/74 18:08	06:13 18:08	06:53-07:14/21 19:41	05:42 20:13	05:27 20:36
17	07:25 16:57	06:55 17:36	07:48-09:02/74 18:09	06:11 18:09	06:52-07:13/21 19:42	05:41 20:14	05:27 20:37
18	07:24 16:59	06:53 17:37	07:47-09:02/75 18:10	06:09 18:10	06:51-07:12/21 19:44	05:40 20:15	05:27 20:37
19	07:24 17:00	06:52 17:38	07:46-09:00/74 18:11	06:08 18:11	06:50-07:11/21 06:40-06:49/9	05:39 20:16	05:27 20:37
20	07:23 17:01	06:51 17:40	07:46-09:00/74 18:12	06:06 18:12	06:38-07:11/33 19:46	05:38 20:17	05:27 20:38
21	07:22 17:02	06:49 17:41	07:45-08:59/74 18:13	06:04 18:13	06:36-07:09/33 19:47	05:37 20:18	05:27 20:38
22	07:22 17:03	06:48 17:42	07:45-08:59/74 18:14	06:03 18:14	06:34-07:07/33 19:48	05:37 20:19	05:27 20:38
23	07:21 17:05	06:46 17:43	07:44-08:57/73 18:15	06:01 18:15	06:34-07:06/32 19:49	05:36 20:20	05:27 20:38
24	07:20 17:06	06:45 17:45	07:45-08:57/72 18:16	05:59 18:16	06:54-07:03/9 06:21-06:27/6	05:35 20:21	05:28 20:38
25	07:20 17:07	06:43 17:46	07:44-08:55/71 18:18	05:58 18:18	06:34-06:52/18 06:18-06:29/11	05:34 20:22	05:28 20:39
26	07:19 17:08	06:42 17:47	07:44-08:54/70 18:19	05:56 18:19	06:34-06:51/17 06:17-06:30/13	05:34 20:23	05:28 20:39
27	07:18 17:10	06:40 17:48	07:44-08:52/68 18:20	05:54 18:20	06:34-06:49/15 06:15-06:30/15	05:33 20:23	05:29 20:39
28	07:17 17:11	06:39 17:49	07:45-08:50/65 18:21	05:52 18:21	06:35-06:47/12 06:14-06:30/16	05:32 20:24	05:29 20:39
29	07:16 17:12			06:51 19:22	07:38-07:43/5 07:13-07:29/16	05:32 20:25	05:30 20:39
30	07:15 17:13			06:49 19:23	07:14-07:29/15	05:31 20:26	05:30 20:39
31	07:15 17:15			06:47 19:24	07:14-07:28/14	05:31 20:27	
Ore potenziali eliofanìa	296	297	369	399	449	454	
Somma minuti d'ombra	453	1885	757	172	0	0	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra



SHADOW - Calendario per WTG

WTG: 8 - NORDEX N90 2300 90.0 !-! hub: 80,0 m (TOT: 125,0 m) (113)

Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:30 20:39	05:55 20:19	06:26 19:36	06:57 18:44	06:31 16:57	07:07 16:32
2	05:31 20:38	05:56 20:18	06:27 19:34	06:58 18:43	06:33 16:56	07:08 16:32
3	05:31 20:38	05:57 20:17	06:28 19:32	06:59 18:41	06:34 16:55	07:09 16:32
4	05:32 20:38	05:58 20:16	06:29 19:31	07:00 18:39	06:35 16:53	07:10 16:32
5	05:33 20:38	05:59 20:15	06:30 19:29	07:01 18:38	06:36 16:52	07:11 16:31
6	05:33 20:38	06:00 20:13	06:31 19:27	07:02 18:36	06:37 16:51	07:12 16:31
7	05:34 20:37	06:01 20:12	06:32 19:26	07:03 18:34	06:39 16:50	07:13 16:31
8	05:34 20:37	06:02 20:11	06:33 19:24	07:04 18:33	06:40 16:49	07:14 16:31
9	05:35 20:37	06:03 20:10	06:34 19:22	07:05 18:31	06:41 16:48	07:15 16:31
10	05:36 20:36	06:04 20:08	06:35 19:21	07:06 18:29	06:42 16:47	07:15 16:31
11	05:36 20:36	06:05 20:07	06:36 19:19	07:07 18:28	06:44 16:46	07:16 16:31
12	05:37 20:35	06:06 20:06	06:37 19:17	07:08 18:26	06:45 16:45	07:17 16:31
13	05:38 20:35	06:07 20:04	06:38 19:15	07:09 18:25	06:46 16:44	07:18 16:31
14	05:39 20:34	06:08 20:03	06:39 19:14	07:11 18:23	06:47 16:43	07:19 16:32
15	05:39 20:34	06:09 20:02	06:40 19:12	07:12 18:21	06:48 16:42	07:19 16:32
16	05:40 20:33	06:10 20:00	06:41 19:10	07:13 18:20	06:50 16:41	07:20 16:32
17	05:41 20:32	06:11 19:59	06:42 19:08	07:14 18:18	06:51 16:40	07:21 16:32
18	05:42 20:32	06:12 19:57	06:43 19:07	07:15 18:17	06:52 16:40	07:22 16:33
19	05:43 20:31	06:13 19:56	06:44 19:05	07:16 18:15	06:53 16:39	07:22 16:33
20	05:44 20:30	06:14 19:54	06:45 19:03	07:17 18:14	06:54 16:38	07:23 16:33
21	05:44 20:30	06:15 19:53	06:46 19:02	07:18 18:12	06:55 16:37	07:23 16:34
22	05:45 20:29	06:16 19:51	06:47 19:00	07:20 18:11	06:57 16:37	07:24 16:34
23	05:46 20:28	06:17 19:50	06:48 18:58	07:21 18:09	06:58 16:36	07:24 16:35
24	05:47 20:27	06:18 19:48	06:49 18:56	07:22 18:08	06:59 16:35	07:25 16:35
25	05:48 20:26	06:19 19:47	06:50 18:55	07:23 18:07	07:00 16:35	07:25 16:36
26	05:49 20:25	06:20 19:45	06:51 18:53	07:24 17:05	07:01 16:34	07:26 16:37
27	05:50 20:24	06:21 19:44	06:52 18:51	07:25 17:04	07:02 16:34	07:26 16:37
28	05:51 20:23	06:22 19:42	06:53 18:50	07:27 17:02	07:04 16:33	07:26 16:38
29	05:52 20:22	06:23 19:40	06:55 18:48	07:28 17:01	07:05 16:33	07:27 16:39
30	05:53 20:21	06:24 19:39	06:56 18:46	07:29 17:00	07:06 16:33	07:27 16:39
31	05:54 20:20	06:25 19:37	06:50-07:05/15	06:30 16:58	07:23-08:34/71	07:27 16:40
Ore potenziali eliofanìa	460	429	375	345	297	286
Somma minuti d'ombra	0	133	512	1617	1037	0

Legenda della tabella:

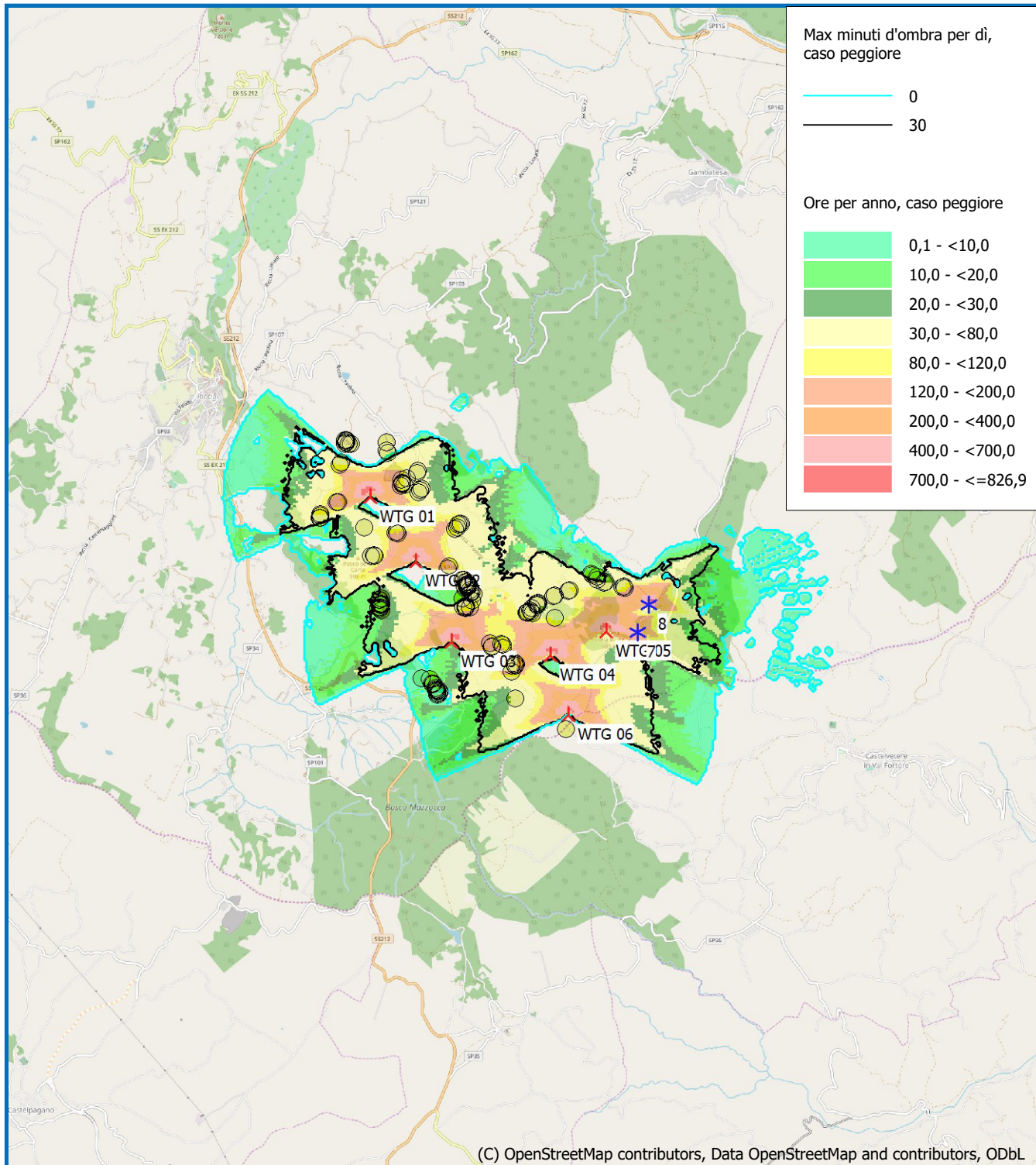
Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

Progetto:
Riccia

Utente autorizzato:
VSB Neue Energien Deutschland GmbH
Schweizer Straße 3a
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Luca Di Grigoli / luca.digrigoli@vsb.energy
Redatto il:
26/05/2022 15:09/3.5.576



SHADOW - Mappa



0 1 2 3 4 km

Mappa: EMD OpenStreetMap , Scala di stampa 1:75.000, Centro mappa UTM (north)-WGS84 Zone: 33 Est: 490.320 Nord: 4.590.060
▲ Nuova WTG * WTG preesistente ● Recettore d'ombra
Fonte altimetria:: Height Contours: CONTOURLINE_Riccia_1.wpo (6)
Time step: 4 minuti, Day step: 14 giorni, Map resolution: 30 m, Visibility calculation: 15 m, Altezza dell'osservatore: 1,5 m