

December 2012

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	20	119	271	420	609	512	439	334	197	50	0	0	0	0	0	0	0	2971
2	0	0	0	0	0	0	0	13	95	276	293	401	458	432	334	207	43	2	0	0	0	0	0	0	2554
3	0	0	0	0	0	0	0	13	58	149	262	275	340	359	273	144	54	3	0	0	0	0	0	0	1929
4	0	0	0	0	0	0	0	21	93	200	373	371	508	242	227	188	21	2	0	0	0	0	0	0	2246
5	0	0	0	0	0	0	0	6	41	136	248	484	497	455	353	207	56	0	0	0	0	0	0	0	2483
6	0	0	0	0	0	0	0	12	128	279	313	198	254	154	66	52	9	0	0	0	0	0	0	0	1463
7	0	0	0	0	0	0	0	13	81	195	285	274	271	313	193	139	55	1	0	0	0	0	0	0	1820
8	0	0	0	0	0	0	0	6	38	260	230	361	357	153	234	125	30	1	0	0	0	0	0	0	1795
9	0	0	0	0	0	0	0	15	86	100	149	282	372	230	195	68	21	0	0	0	0	0	0	0	1519
10	0	0	0	0	0	0	0	1	7 ?	52	74	150 ?	166 ?	50	35 ?	39	7	0	0	0	0	0	0	0	582 ?
11	0	0	0	0	0	0	0	6	15	42	102	110	68	72	51	27	8	0	0	0	0	0	0	0	501
12	0	0	0	0	0	0	0	8	58	91	139	186	233	184	111	49	17	8	0	0	0	0	0	0	1083
13	0	0	0	0	0	0	0	7	?	?	495 ?	476	490	443	347	204	54	0	0	0	0	0	0	0	2517 ?
14	0	0	0	0	0	0	0	8	?	349 ?	396	474	488	441	338	200	48	0	0	0	0	0	0	0	2743 ?
15	0	0	0	0	0	0	0	4	30	149	263	330	380	194	241	117	42	2	0	0	0	0	0	0	1752
16	0	0	0	0	0	0	0	5	25	59	66	62	75	64	65	41	18	0	0	0	0	0	0	0	481
17	0	0	0	0	0	0	0	5	34	69	80	100	131	112	81	33 ?	4	0	0	0	0	0	0	0	650
18	0	0	0	0	0	0	0	8	13	30 ?	79	104	78	86	70	81	27	4	0	0	0	0	0	0	578
19	0	0	0	0	0	0	0	10	100	256	384	457	445	439	345	190	41	0	0	0	0	0	0	0	2666
20	0	0	0	0	0	0	0	10	72	30	33 ?	57	94	122	49	37	11	4	0	0	0	0	0	0	519
21	0	0	0	0	0	0	0	2	20	86	193	154	133	123	63	30	14	2	0	0	0	0	0	0	819
22	0	0	0	0	0	0	0	3	20	74	139	252	526	453	362	219	69	2	0	0	0	0	0	0	2120
23	0	0	0	0	0	0	0	8	94	246	336	248	400	345	382	184	39	3	0	0	0	0	0	0	2286
24	0	0	0	0	0	0	0	2	27	34 ?	53	90	168	74 ?	63	21 ?	8	2	0	0	0	0	0	0	541 ?
25	0	0	0	0	0	0	0	6	31	80	138	349	345	287	173	98	30	2	0	0	0	0	0	0	1538
26	0	0	0	0	0	0	0	4	22	34 ?	160 ?	224	320	248	112 ?	34	24	3	0	0	0	0	0	0	1186 ?
27	0	0	0	0	0	0	0	1	6 ?	27	37	47	53	55	44	27	5	1	0	0	0	0	0	0	304
28	0	0	0	0	0	0	0	6	27	64	87	197	288	235	176	94	24	2	0	0	0	0	0	0	1201
29	0	0	0	0	0	0	0	5	14	38	66	182	211	150	59	26	5	1	0	0	0	0	0	0	757
30	0	0	0	0	0	0	0	3	15	74	88	128	183	317	376	226	81	4	0	0	0	0	0	0	1495
31	0	0	0	0	0	0	0	10	70	153	202	193	288	205	147	78	15	3	0	0	0	0	0	0	1366
Avg	0	0	0	0	0	0	0	8	50	130	199	252	295	241	190	109	30	2	0	0	0	0	0	0	1499
S D	0	0	0	0	0	0	0	5	36	96	130	147	153	139	124	74	21	2	0	0	0	0	0	0	803
S/A	0	0	0	0	0	0	0	0.65	0.73	0.74	0.65	0.58	0.52	0.58	0.65	0.67	0.69	1.03	0	0	0	0	0	0	0.54
Min	0	0	0	0	0	0	0	1	6	27	33	47	53	50	35	21	4	0	0	0	0	0	0	0	304
Max	0	0	0	0	0	0	0	21	128	349	495	609	526	455	382	226	81	8	0	0	0	0	0	0	2971
n	0	0	0	0	0	0	0	183	337	342	360	365	367	365	362	358	366	43	0	0	0	0	0	0	3450

Daylight Data Recovery: 0.0% missing; 0.0% untested; 3.5% exceed the 15% QC threshold -- 3574 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25821F3 Calibration Factor: 9.020 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

December 2012

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	*	*	*	*	?	?	?	?	?	?	?	0	0	0	0	0	0	?
2	0	0	0	0	0	0	0	*	*	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
3	0	0	0	0	0	0	0	*	*	*	?	?	320 ?	286 ?	347 ?	?	?	?	0	0	0	0	0	0	953 *?
4	0	0	0	0	0	0	0	*	*	*	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
5	0	0	0	0	0	0	0	*	*	*	*	*	*	?	?	?	*	*	0	0	0	0	0	0	*
6	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
7	0	0	0	0	0	0	0	*	*	*	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
8	0	0	0	0	0	0	0	*	*	*	*	?	?	?	?	?	?	?	0	0	0	0	0	0	?
9	0	0	0	0	0	0	0	*	465 *?	159 ?	?	*	*	?	?	?	?	?	0	0	0	0	0	0	?
10	0	0	0	0	0	0	0	*	*	?	?	255 ?	?	125 ?	44 ?	?	?	?	0	0	0	0	0	0	424 *?
11	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
12	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
13	0	0	0	0	0	0	0	*	*	*	*	*	?	?	?	?	*	*	0	0	0	0	0	0	*
14	0	0	0	0	0	0	0	*	*	*	*	*	?	?	?	?	*	*	0	0	0	0	0	0	*
15	0	0	0	0	0	0	0	*	*	*	*	?	?	?	?	?	*	*	0	0	0	0	0	0	*
16	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	?	*	*	0	0	0	0	0	0	*
17	0	0	0	0	0	0	0	*	?	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
18	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	?	?	0	0	0	0	0	*
19	0	0	0	0	0	0	0	*	*	*	*	*	*	?	?	?	*	*	0	0	0	0	0	0	*
20	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
21	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
22	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
23	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
24	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
25	0	0	0	0	0	0	0	*	*	*	*	*	?	*	*	*	*	*	0	0	0	0	0	0	*
26	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
27	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
28	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
29	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
30	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
Avg	0	0	0	0	0	0	0	N/A	465	159	N/A	255	320	206	195	N/A	N/A	N/A	0	0	0	0	0	0	N/A *?
SD	0	0	0	0	0	0	0	0	0	0	0	0	114	214	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0.55	1.09	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	N/A	465	159	N/A	255	320	125	44	N/A	N/A	N/A	0	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	0	N/A	465	159	N/A	255	320	286	347	N/A	N/A	N/A	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	3	5	0	6	4	11	7	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 72.9% missing; 0.0% untested; 25.9% exceed the 15% QC threshold -- 3574 total daylight measurements.

Instrument: Eppley NIP Serial Number: 17664E6 Calibration Factor: 8.480 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

December 2012

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
 Instrument: Eppley PSP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
2	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
3	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
4	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
5	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
6	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
7	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
8	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
9	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
10	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
11	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
12	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
13	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
14	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
15	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
16	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
17	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
18	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
19	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
20	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
21	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
22	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
23	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
24	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
25	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
26	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
27	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
28	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
29	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
30	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	*
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	
Max	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 3574 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17860F3 Calibration Factor: 7.010 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.