

August 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	10	75	271	481	654	622	663	879	831	728	430	123	100	72	19	0	0	0	0	5959
2	0	0	0	0	0	14	108	252	460	686	806	866	735	889	672	611	466	273	80	6	0	0	0	0	6924
3	0	0	0	0	0	19	105	247	345	402	703	872	676	763	452	235	117	?	22 ?	8	0	0	0	0	4967
4	0	0	0	0	0	3	22	33	145	149	128	216	331	552	709	524	320	132	59	11	0	0	0	0	3333
5	0	0	0	0	0	6	56	189	196	215	483	546	646	724	591	256	54 ?	56 ?	34	2	0	0	0	0	4055
6	0	0	0	0	0	7	23	43	71 ?	120	102	184	201	185	192	325	322	245	95	6	0	0	0	0	2122
7	0	0	0	0	0	9	68	137	352	371	349	433	535	594	592	363	246	159	46	8	0	0	0	0	4261
8	0	0	0	0	0	4	51	255	484	681	727	883	914	875	780	618	437	256	70	5	0	0	0	0	7040
9	0	0	0	0	0	16	106	183	280	560	541	720	738	874	561	250	160	65	1 ?	0	0	0	0	0	5057
10	0	0	0	0	0	7	90	251	274	188	348	551	565	744	595	379	122 ?	103 ?	21 ?	9	0	0	0	0	4249
11	0	0	0	0	0	12	108	227	321	634	752	895	832	712	794	611	463	251	96	19	0	0	0	0	6726
12	0	0	0	0	0	9	68	251	471	670	593	791	741	838	635	609	445	202	56	8	0	0	0	0	6387
13	0	0	0	0	0	6	89	215	368	602	693	667	750	778	565	223	245	148	29	2	0	0	0	0	5378
14	0	0	0	0	0	11	71	221	313	398	557	491	812	657	693	515	332	116	24	1	0	0	0	0	5211
15	0	0	0	0	0	6	31	52	162	119	78 ?	108 ?	99 ?	376	381	346	240	48 ?	55	7	0	0	0	0	2105 ?
16	0	0	0	0	0	6	59	251	440	643	776	665	867	747	774	627	430	235	48	0	0	0	0	0	6570
17	0	0	0	0	0	5	53	179	417	581	472	181	153	190	206	280	120	91	27	7	0	0	0	0	2962
18	0	0	0	0	0	5	42	98	261	230	620	841	919	730	778	638	433	224	58	1	0	0	0	0	5877
19	0	0	0	0	0	1	11	33	88	228	385	526	524	559	238	468	357	54	7	0	0	0	0	0	3479
20	0	0	0	0	0	4	42	92	231	569	728	805	734	710	787	480	260	133	77	17	0	0	0	0	5670
21	0	0	0	0	0	3	62	256	446	627	730	760	799	857	596	434	414	219	44	0	0	0	0	0	6248
22	0	0	0	0	0	3	57	217	432	611	555	160	652	549	569	570	300	184	37	0	0	0	0	0	4898
23	0	0	0	0	0	4	67	235	421	604	743	848	698	676	540	408	210	173	35	0	0	0	0	0	5663
24	0	0	0	0	0	4	44	193	423	594	743	825	910	521	476	212	154	105	23	0	0	0	0	0	5226
25	0	0	0	0	0	3	58	224	422	596	741	848	756	808	742	468	282	156	58	0	0	0	0	0	6163
26	0	0	0	0	0	3	51	238	425	604	738	822	857	836	742	585	396	200	29	0	0	0	0	0	6528
27	0	0	0	0	0	1	59	228	421	604	736	852	851	836	626	550	325	186	24	0	0	0	0	0	6299
28	0	0	0	0	0	3	46	110	247	404	389	501	567	589	478	188	120	103	26	0	0	0	0	0	3771
29	0	0	0	0	0	3	37	201	414	598	757	786	857	834	724	568	382	181	25	0	0	0	0	0	6367
30	0	0	0	0	0	3	41	190	416	591	735	611	784	683	711	542	356	169	29	0	0	0	0	0	5859
31	0	0	0	0	0	4	43	157	145	292	437	689	694	799	607	576	372	163	16	0	0	0	0	0	4994
Avg	0	0	0	0	0	6	60	185	335	478	573	632	680	688	598	448	290	158	43	4	0	0	0	0	5173
S D	0	0	0	0	0	4	26	73	123	191	209	244	221	182	167	145	123	65	25	6	0	0	0	0	1367
S/A	0	0	0	0	0	0.69	0.43	0.4	0.37	0.4	0.36	0.39	0.32	0.27	0.28	0.32	0.42	0.41	0.58	1.33	0	0	0	0	0.26
Min	0	0	0	0	0	1	11	33	71	119	78	108	99	185	192	188	54	45	1	0	0	0	0	0	2105
Max	0	0	0	0	0	19	108	271	484	686	806	895	919	889	794	638	466	273	96	19	0	0	0	0	7040
n	0	0	0	0	0	116	372	370	369	372	367	362	366	372	372	371	362	349	352	71	0	0	0	0	4943

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.5% exceed the 15% QC threshold -- 5016 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.

August 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	*	
2	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
3	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
5	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
6	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
7	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
8	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
9	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	204 ?	?	0	0	0	0	*
11	0	0	0	0	0	475	123 **	?	?	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
12	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	?	0	0	0	0	*
13	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
14	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
15	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	?	122 ?	?	?	0	0	0	0	*
16	0	0	0	0	0	*	*	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
17	0	0	0	0	0	112 ?	479 ?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
18	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
19	0	0	0	0	0	?	?	?	?	*	*	*	*	*	*	*	*	*	*	*	?	0	0	0	0	*
20	0	0	0	0	0	?	?	?	?	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
21	0	0	0	0	0	796 ?	?	?	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*
22	0	0	0	0	0	?	328 ?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
23	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
24	0	0	0	0	0	386	408 ?	?	*	*	*	*	*	*	*	*	*	*	*	?	0	0	0	0	*	
25	0	0	0	0	0	58 ?	542 ?	?	*	*	*	*	*	*	*	*	*	*	*	?	0	0	0	0	*	
26	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
27	0	0	0	0	0	227 ?	?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
28	0	0	0	0	0	534 ?	?	?	?	*	*	*	*	*	*	*	*	*	?	?	0	0	0	0	*	
29	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	?	0	0	0	0	*	
30	0	0	0	0	0	*	?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
31	0	0	0	0	0	?	?	?	?	?	?	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
Avg	0	0	0	0	0	370	376	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	122	204	0	0	0	0	0	N/A	**?
SD	0	0	0	0	0	259	162	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	0.7	0.43	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	58	123	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	122	204	0	0	0	0	0	N/A	
Max	0	0	0	0	0	796	542	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	122	204	0	0	0	0	0	0	N/A
n	0	0	0	0	0	13	17	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0

Daylight Data Recovery: 87.7% missing; 0.0% untested; 11.4% exceed the 15% QC threshold -- 5016 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.

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

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 5016 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.