

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 1998

Field: GHI

Hour 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	23	164	404	497	625	691	658	564	409	211	34	0	0	0	0	0	0	4279
2	0	0	0	0	0	0	0	16	47	110	232	147	165	163	180	130	86	15	0	0	0	0	0	0	1293
3	0	0	0	0	0	0	0	2	11	38	86	45	346	525	306	138	118	21	0	0	0	0	0	0	1636
4	0	0	0	0	0	0	0	5	37	94	109	141	151	139	114	79	39	7	0	0	0	0	0	0	916
5	0	0	0	0	0	0	0	12	51	130	292	573	698	635	573	427	244	56	0	0	0	0	0	0	3693
6	0	0	0	0	0	0	0	16	86	297	520	580	645	665	554	371	134	27	0	0	0	0	0	0	3896
7	0	0	0	0	0	0	0	34	201	311	369	593	236	189	197	161	55	9	0	0	0	0	0	0	2354
8	0	0	0	0	0	0	0	15	102	205	291	450	631	424	381	266	112	52	0	0	0	0	0	0	2930
9	0	0	0	0	0	0	0	16	51	134	431	520	480	526	554	440	242	60	0	0	0	0	0	0	3452
10	0	0	0	0	0	0	0	33	173	370	592	684	738	677	523	349	236	60	0	0	0	0	0	0	4435
11	0	0	0	0	0	0	0	23	136	321	535	462	543	381	244	44	92	28	1	0	0	0	0	0	2810
12	0	0	0	0	0	0	0	39	205	414	589	706	754	724	625	467	263	71	0	0	0	0	0	0	4857
13	0	0	0	0	0	0	0	54	98	120	243	282	246	113	152	125	87	22	0	0	0	0	0	0	1542
14	0	0	0	0	0	0	0	38	155	397	621	712	741	644	581	445	184	44	0	0	0	0	0	0	4561
15	0	0	0	0	0	0	0	37	140	235	292	387	566	399	232	189	113	33	0	0	0	0	0	0	2625
16	0	0	0	0	0	0	0	4	7	39	42	30	20	43	142	81	29	10	0	0	0	0	0	0	450
17	0	0	0	0	0	0	0	26	164	207	584	729	761	726	607	447	261	73	0	0	0	0	0	0	4586
18	0	0	0	0	0	0	0	45	220	430	608	726	772	747	650	493	289	88	1	0	0	0	0	0	5068
19	0	0	0	0	0	0	0	50	223	431	599	722	769	731	586	418	178	26	0	0	0	0	0	0	4733
20	0	0	0	0	0	0	0	49	168	417	607	725	765	751	658	470	233	89	1	0	0	0	0	0	4932
21	0	0	0	0	0	0	0	55	238	445	627	746	794	760	662	480	264	83	1	0	0	0	0	0	5155
22	0	0	0	0	0	0	0	55	252	398	259	245	51	17	11	48	21	8	0	0	0	0	0	0	1363
23	0	0	0	0	0	0	0	24	87	130	195	219	115	187	155	210	75	19	0	0	0	0	0	0	1414
24	0	0	0	0	0	0	0	63	259	476	658	777	822	790	689	526	315	108	2	0	0	0	0	0	5485
25	0	0	0	0	0	0	0	67	262	471	640	751	800	775	675	517	311	102	1	0	0	0	0	0	5372
26	0	0	0	0	0	0	0	85	225	427	562	767	643	473	687	479	309	108	1	0	0	0	0	0	4767
27	0	0	0	0	0	0	0	7	39	145	181	352	271	390	249	414	164	79	2	0	0	0	0	0	2294
28	0	0	0	0	0	0	0	18	72	351	597	735	787	764	654	508	324	109	2	?	0	0	0	0	4921
Avg	0	0	0	0	0	0	0	33	138	284	424	515	536	501	436	326	178	51	0	0	0	0	0	0	3422
S D	0	0	0	0	0	0	0	21	79	142	194	239	264	252	219	164	95	34	1	0	0	0	0	0	1546
S/A	0	0	0	0	0	0	2.47	0.65	0.57	0.5	0.46	0.46	0.49	0.5	0.5	0.5	0.53	0.65	1.47	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	2	7	38	42	30	20	17	11	44	21	7	0	0	0	0	0	0	450
Max	0	0	0	0	0	0	0	85	262	476	658	777	822	790	689	526	324	109	2	0	0	0	0	0	5485

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 23815 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: SS
Latitude: 32.03° N
Longitude: 81.07° W
Elevation: 11 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 9.16 uV/Wm-2
Serial Number: 18078F3
Calibration Date: 9/13/96

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 1998**

Field: DNI

Hour 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	135	522	792	715	874	932	908	863	765	422	75	0	0	0	0	0	0	7004
2	0	0	0	0	0	0	0	17	16	20	28	16	18	20	21	21	23	10	0	0	0	0	0	0	209
3	0	0	0	0	0	0	0	3	4	8	12	6	171	320	77	38	72	16	0	0	0	0	0	0	728
4	0	0	0	0	0	0	0	5	13	18	15	17	17	15	15	11	19	0	0	0	0	0	0	0	162
5	0	0	0	0	0	0	0	20	18	25	44	558	904	790	797	764	552	192	0	0	0	0	0	0	4663
6	0	0	0	0	0	0	0	7	51	395	749	568	655	852	780	502	47	13	4	0	0	0	0	0	4622
7	0	0	0	0	0	0	0	53	418	161	49	475	26	22	27	28	13	6	0	0	0	0	0	0	1278
8	0	0	0	0	0	0	0	9	35	27	46	168	315	205	267	100	25	47	0	0	0	0	0	0	1244
9	0	0	0	0	0	0	0	17	16	25	296	292	57	318	674	825	619	239	0	0	0	0	0	0	3378
10	0	0	0	0	0	0	0	148	476	780	1235	954	985	867	689	548	567	228	0	0	0	0	0	0	7476
11	0	0	0	0	0	0	0	65	87	339	589	193	324	95	29	6	24	19	4	0	0	0	0	0	1774
12	0	0	0	0	0	0	0	228	605	815	916	962	985	967	922	846	677	310	3	0	0	0	0	0	8236
13	0	0	0	0	0	0	0	139	51	19	39	28	29	12	19	19	29	8	1	0	0	0	0	0	393
14	0	0	0	0	0	0	0	190	328	572	883	900	854	608	631	617	279	60	48	0	0	0	0	0	5970
15	0	0	0	0	0	0	0	27	42	49	60	40	227	85	30	25	24	20	1	0	0	0	0	0	629
16	0	0	0	0	0	0	0	14	2	8	6	4	3	5	18	13	8	6	1	0	0	0	0	0	88
17	0	0	0	0	0	0	0	63	266	73	755	878	939	899	762	668	562	232	8	0	0	0	0	0	6106
18	0	0	0	0	0	0	0	203	592	804	912	963	975	969	935	868	712	365	6	0	0	0	0	0	8302
19	0	0	0	0	0	0	0	196	553	780	868	928	944	899	676	424	123	7	9	0	0	0	0	0	6407
20	0	0	0	0	0	0	0	177	372	730	869	914	909	929	862	719	473	315	0	0	0	0	0	0	7270
21	0	0	0	0	0	0	0	232	611	803	913	960	975	953	922	773	542	282	0	0	0	0	0	0	7966
22	0	0	0	0	0	0	0	89	268	364	39	22	6	2	2	8	6	5	3	0	0	0	0	0	813
23	0	0	0	0	0	0	0	19	23	23	29	35	12	38	19	32	17	10	2	0	0	0	0	0	259
24	0	0	0	0	0	0	0	261	655	853	953	996	1006	988	955	882	728	427	3	0	0	0	0	0	8708
25	0	0	0	0	0	0	0	296	676	838	909	945	972	968	931	865	716	396	36	0	0	0	0	0	8547
26	0	0	0	0	0	0	0	140	388	580	608	894	611	310	820	635	535	405	1	0	0	0	0	0	5926
27	0	0	0	0	0	0	2	6	12	30	19	127	44	45	34	325	93	144	5	0	0	0	0	0	887
28	0	0	0	0	0	0	4	14	24	375	711	819	866	876	812	781	610	340	1	0	0	0	0	0	6233
Avg	0	0	0	0	0	0	0	99	254	368	474	519	527	499	485	432	304	150	5	0	0	0	0	0	4117
S D	0	0	0	0	0	0	1	92	246	339	411	404	417	407	390	349	281	150	11	0	0	0	0	0	3183
S/A	0	0	0	0	0	0	3.94	0.92	0.97	0.92	0.87	0.78	0.79	0.82	0.8	0.81	0.93	1	2.22	0	0	0	0	0	0.77
Min	0	0	0	0	0	0	0	3	2	8	6	4	3	2	2	6	6	5	0	0	0	0	0	0	88
Max	0	0	0	0	0	0	4	296	676	853	1235	996	1006	988	955	882	728	427	48	0	0	0	0	0	8708

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 60899 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: SS
 Latitude: 32.03° N
 Longitude: 81.07° W
 Elevation: 11 Meters AMSL
 Time Zone: -5

Instrument: Estimated DNI
 Calibration Constant: 0.00
 Serial Number: XXXXXXXX
 Calibration Date: 1/1/1997

Diffuse Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 1998

Field: DHI

Hour 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	11	45	93	123	87	86	87	86	78	90	24	0	0	0	0	0	0	809
2	0	0	0	0	0	0	0	15	44	102	218	137	153	151	168	121	80	14	0	0	0	0	0	0	1203
3	0	0	0	0	0	0	0	1	10	35	80	42	233	321	261	123	95	19	0	0	0	0	0	0	1219
4	0	0	0	0	0	0	0	5	34	86	101	131	140	128	105	73	36	7	0	0	0	0	0	0	846
5	0	0	0	0	0	0	0	11	47	120	269	215	98	127	117	84	86	30	0	0	0	0	0	0	1205
6	0	0	0	0	0	0	0	16	74	125	111	221	207	113	106	141	120	25	0	0	0	0	0	0	1259
7	0	0	0	0	0	0	0	28	97	249	342	289	218	174	181	149	51	8	0	0	0	0	0	0	1787
8	0	0	0	0	0	0	0	14	92	194	266	340	418	290	224	218	105	47	0	0	0	0	0	0	2209
9	0	0	0	0	0	0	0	14	47	123	258	335	442	315	160	57	53	24	0	0	0	0	0	0	1829
10	0	0	0	0	0	0	0	18	50	61	60	65	64	101	116	103	59	26	0	0	0	0	0	0	724
11	0	0	0	0	0	0	0	21	112	168	197	338	320	317	226	41	85	26	1	0	0	0	0	0	1853
12	0	0	0	0	0	0	0	16	45	61	69	74	73	74	73	64	50	25	0	0	0	0	0	0	625
13	0	0	0	0	0	0	0	44	86	111	221	263	226	104	141	116	79	21	0	0	0	0	0	0	1413
14	0	0	0	0	0	0	0	18	70	137	112	114	143	228	198	149	87	34	0	0	0	0	0	0	1292
15	0	0	0	0	0	0	0	34	129	213	258	360	406	340	214	177	106	30	0	0	0	0	0	0	2267
16	0	0	0	0	0	0	0	4	7	36	39	28	18	40	131	75	27	9	0	0	0	0	0	0	412
17	0	0	0	0	0	0	0	19	99	172	139	134	91	103	135	118	73	34	0	0	0	0	0	0	1116
18	0	0	0	0	0	0	0	23	51	63	68	70	72	72	68	60	50	27	1	0	0	0	0	0	625
19	0	0	0	0	0	0	0	29	61	72	81	86	88	101	158	204	131	25	0	0	0	0	0	0	1036
20	0	0	0	0	0	0	0	25	63	75	84	95	105	95	114	105	72	35	1	0	0	0	0	0	870
21	0	0	0	0	0	0	0	25	56	69	75	80	82	84	77	83	76	35	1	0	0	0	0	0	741
22	0	0	0	0	0	0	0	44	170	232	235	229	47	16	10	44	19	7	0	0	0	0	0	0	1054
23	0	0	0	0	0	0	0	22	80	119	177	194	106	159	143	193	69	18	0	0	0	0	0	0	1279
24	0	0	0	0	0	0	0	27	56	65	69	72	74	76	72	66	55	34	2	0	0	0	0	0	670
25	0	0	0	0	0	0	0	25	52	64	75	78	74	72	70	63	52	31	1	0	0	0	0	0	658
26	0	0	0	0	0	0	0	66	102	141	181	127	184	245	154	145	110	37	1	0	0	0	0	0	1493
27	0	0	0	0	0	0	0	6	35	130	169	258	238	357	226	241	135	51	2	0	0	0	0	0	1848
28	0	0	0	0	0	0	0	17	64	156	144	141	129	117	116	90	96	45	2	0	0	0	0	0	1116
Avg	0	0	0	0	0	0	0	21	67	117	151	164	162	157	137	114	77	27	0	0	0	0	0	0	1195
S D	0	0	0	0	0	0	0	13	34	57	80	100	113	99	59	54	29	11	1	0	0	0	0	0	487
S/A	0	0	0	0	0	0	2.89	0.63	0.51	0.48	0.53	0.61	0.7	0.63	0.43	0.47	0.38	0.42	1.34	0	0	0	0	0	0.41
Min	0	0	0	0	0	0	0	1	7	35	39	28	18	16	10	41	19	7	0	0	0	0	0	0	412
Max	0	0	0	0	0	0	0	66	170	249	342	360	442	357	261	241	135	51	2	0	0	0	0	0	2267

Daylight Data Recovery: 0% missing; 11% exceed the 15% QC threshold -- 23815 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: SS
Latitude: 32.03° N
Longitude: 81.07° W
Elevation: 11 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 8.29 uV/Wm-2
Serial Number: 18040F3
Calibration Date: 9/13/96