

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - May 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	3	57	189	304	377	504	657	578	910	819	684	462	247	56	0	0	0	0	0	5847
2	0	0	0	0	0	4	89	296	513	716	837	959	823	780	834	632	437	239	37	0	0	0	0	0	7195
3	0	0	0	0	0	5	118	294	474	691	851	917	784	603	87 ?	62	307	197	34	0	0	0	0	0	5424
4	0	0	0	0	0	1	52	182	399	468	658	754	910	375	271	60	47	36	37	0	0	0	0	0	4249
5	0	0	0	0	0	5	84	330 ?	524	729	877	863	900	746	799	616	304	215	50	0	0	0	0	0	7042
6	0	0	0	0	0	4	97	317	520	715	778	803	845	920	815	651	444	181	35	0	0	0	0	0	7124
7	0	0	0	0	0	8	63	265	264	243	261	720	895	750	569	561	413	159	43	0	0	0	0	0	5213
8	0	0	0	0	0	4	73	189	342	550	811	871	409	706	843	670	479	256	65	0	0	0	0	0	6267
9	0	0	0	0	0	8	130	277	488	640	786	869	930	894	771	582	366	170	36	0	0	0	0	0	6949
10	0	0	0	0	0	6	102	278	440	444	472	439	481	703	771	597	262	134	46	0	0	0	0	0	5174
11	0	0	0	0	0	6	57	67	162	225	239	727	775	596	708	554	331	250	56	0	0	0	0	0	4754
12	0	0	0	0	0	7	111	307	526	699	767	715	977	907	711	684	466	254	67	0	0	0	0	0	7199
13	0	0	0	0	0	9	92	336	530	731	884	970	987	933	832	658	453	241	61	0	0	0	0	0	7716
14	0	0	0	0	0	9	82	240	319	563	665	901	952	919	793	626	413	193	54	0	0	0	0	0	6729
15	0	0	0	0	0	11	108	298	516	725	882	971	996	947	841	667	466	244	63	0	0	0	0	0	7736
16	0	0	0	0	0	9	116	276	435	670	820	908	945	889	779	612	372	164	51	0	0	0	0	0	7046
17	0	0	0	0	0	5	78	211	379	532	648	805	746	583	503	173	294	202	55	1	0	0	0	0	5215
18	0	0	0	0	0	9	93	229	448	521	654	715	710	709	638	543	423	209	62	1	0	0	0	0	5965
19	0	0	0	0	0	11	111	298	124	712	899	929	905	913	768	675	474	259	76	1	0	0	0	0	7155
20	0	0	0	0	0	13	146	340	532	725	866	962	990	938	823	646	442	236	64	1	0	0	0	0	7724
21	0	0	0	0	0	10	106	266	456	634	783	870	913	865	733	584	401	204	59	1	0	0	0	0	6886
22	0	0	0	0	0	10	111	292	500	682	847	856	697	746	552	575	419	225	61	1	0	0	0	0	6573
23	0	0	0	0	0	11	106	276	471	647	786	865	800	713	709	550	400	211	58	0	0	0	0	0	6605
24	0	0	0	0	0	12	115	292	488	682	830	786	801	917	795	616	415	233	68	1	0	0	0	0	7050
25	0	0	0	0	0	14	115	281	341	642	823	890	948	913	781	636	442	226	66	2	0	0	0	0	7121
26	0	0	0	0	0	14	125	296	493	679	817	856	895	871	783	616	437	239	80	5	0	0	0	0	7207
27	0	0	0	0	0	6	60	200	414	602	644	815	655	361	76	63	161	82	46	2	0	0	0	0	4185
28	0	0	0	0	0	16	133	260	343	500	582	866	793	775	495	257	279	141	50	2	0	0	0	0	5493
29	0	0	0	0	0	11	122	282	471	448	696	938	903	336	237	544	402	248	78	2	0	0	0	0	5718
30	0	0	0	0	0	16	96	287	429	646	778	990	918	794	578	536	201	100	56	1	0	0	0	0	6425
31	0	0	0	0	0	14	121	300	240	395	505	674	755	690	577	735	490	282	84	3	0	0	0	0	5864
Avg	0	0	0	0	0	9	99	266	416	588	718	834	826	765	655	538	377	202	57	1	0	0	0	0	6350
S D	0	0	0	0	0	4	24	56	108	139	169	116	144	171	215	191	102	56	13	1	0	0	0	0	989
S/A	0	0	0	0	0	0.44	0.24	0.21	0.26	0.24	0.24	0.14	0.17	0.22	0.33	0.35	0.27	0.28	0.23	1.24	0	0	0	0	0.16
Min	0	0	0	0	0	1	52	67	124	225	239	439	409	336	76	60	47	36	34	0	0	0	0	0	4185
Max	0	0	0	0	0	16	146	340	532	731	899	990	996	947	843	735	490	282	84	5	0	0	0	0	7736

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5127 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 - May 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	13	45	42	68	68	199	331	320	761	785	816	687	527	146	56	0	0	0	0	4866
2	0	0	0	0	0	5	150	504	660	756	737	778	602	548	779	661	573	460	62	0	0	0	0	0	7275
3	0	0	0	0	0	14	281	465	511	671	750	705	428	175	9	63	139	157	30	4	0	0	0	0	4403
4	0	0	0	0	0	104	35	36	116	60	287	411	621	183	71	11	10	13	47	13	0	0	0	0	2018
5	0	0	0	0	0	21	149	920	727	823	855	646	627	517	649	540	222	290	78	12	0	0	0	0	7077
6	0	0	0	0	0	7	152	504	639	731	581	509	490	684	722	670	552	232	22	5	0	0	0	0	6502
7	0	0	0	0	0	27	29	199	65	32	41	387	462	311	252	386	413	112	34	1	0	0	0	0	2750
8	0	0	0	0	0	12	44	36	200	296	494	497	241	447	758	726	702	512	149	35	0	0	0	0	5148
9	0	0	0	0	0	18	166	201	390	429	497	517	615	641	578	457	290	118	16	0	0	0	0	0	4933
10	0	0	0	0	0	18	105	302	271	65	57	46	90	326	561	444	139	60	25	0	0	0	0	0	2510
11	0	0	0	0	0	17	38	20	37	40	37	371	358	208	477	458	273	320	68	0	0	0	0	0	2722
12	0	0	0	0	0	13	175	435	604	662	534	398	743	714	548	731	616	432	125	15	0	0	0	0	6745
13	0	0	0	0	0	7	81	533	645	753	818	843	834	804	790	703	593	414	109	19	0	0	0	0	7945
14	0	0	0	0	0	21	37	123	80	172	170	552	658	675	606	542	396	202	47	19	0	0	0	0	4300
15	0	0	0	0	0	15	139	406	561	708	791	816	823	798	791	704	613	408	113	77	0	0	0	0	7761
16	0	0	0	0	0	19	134	209	225	479	564	595	610	597	555	486	279	80	37	0	0	0	0	0	4870
17	0	0	0	0	0	8	32	50	122	159	166	307	216	132	123	32	83	55	31	2	0	0	0	0	1517
18	0	0	0	0	0	24	21	48	184	127	231	240	243	308	353	372	391	225	66	0	0	0	0	0	2835
19	0	0	0	0	0	20	136	425	134	689	750	661	607	629	595	673	586	419	161	1	0	0	0	0	6486
20	0	0	0	0	0	19	225	443	540	644	711	747	774	749	686	579	460	295	75	7	0	0	0	0	6955
21	0	0	0	0	0	24	64	182	281	357	427	459	512	496	408	366	298	154	38	8	0	0	0	0	4076
22	0	0	0	0	0	19	95	271	438	512	578	445	179	314	181	326	284	200	51	13	0	0	0	0	3907
23	0	0	0	0	0	24	61	197	325	396	441	452	331	281	341	287	287	163	38	1	0	0	0	0	3624
24	0	0	0	0	0	17	99	260	390	518	559	412	406	581	552	471	332	229	59	1	0	0	0	0	4887
25	0	0	0	0	0	27	109	189	93	431	561	560	612	602	534	489	403	213	56	6	0	0	0	0	4883
26	0	0	0	0	0	112	116	289	431	551	591	515	500	517	541	469	382	217	73	22	0	0	0	0	5325
27	0	0	0	0	0	11	32	65	117	220	142	326	107	43	10	9	34	25	34	5	0	0	0	0	1179
28	0	0	0	0	0	31	140	117	38	83	118	316	255	298	130	46	51	31	35	5	0	0	0	0	1695
29	0	0	0	0	0	24	97	190	268	164	278	518	460	56	29	341	299	262	82	11	0	0	0	0	3078
30	0	0	0	0	0	34	41	209	259	371	362	598	487	373	198	337	43	34	42	13	0	0	0	0	3402
31	0	0	0	0	0	30	182	268	130	149	209	345	432	404	379	712	591	437	118	7	0	0	0	0	4391
Avg	0	0	0	0	0	24	104	263	308	391	437	494	472	457	451	449	356	235	67	11	0	0	0	0	4518
S D	0	0	0	0	0	23	63	196	211	256	250	176	200	221	251	229	202	152	40	17	0	0	0	0	1877
S/A	0	0	0	0	0	0.95	0.61	0.75	0.69	0.65	0.57	0.36	0.42	0.48	0.56	0.51	0.57	0.64	0.59	1.45	0	0	0	0	0.42
Min	0	0	0	0	0	5	21	20	37	32	37	46	90	43	9	9	10	13	16	0	0	0	0	0	1179
Max	0	0	0	0	0	112	281	920	727	823	855	843	834	804	791	816	702	527	161	77	0	0	0	0	7945

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 75142 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 - May 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	2	49	172	264	328	333	346	274	213	168	119	106	74	33	0	0	0	0	0	2481
2	0	0	0	0	0	4	58	100	133	157	205	233	249	279	188	170	136	86	26	0	0	0	0	0	2024
3	0	0	0	0	0	5	63	113	178	194	204	258	375	441	57	53	232	149	30	0	0	0	0	0	2351
4	0	0	0	0	0	1	45	168	331	424	404	368	316	203	211	53	42	32	32	0	0	0	0	0	2629
5	0	0	0	0	0	5	55	80	99	117	137	257	299	272	255	231	181	121	37	0	0	0	0	0	2144
6	0	0	0	0	0	4	62	117	145	170	278	326	374	288	212	181	151	94	31	0	0	0	0	0	2435
7	0	0	0	0	0	6	57	181	226	220	226	352	451	464	361	295	193	122	37	0	0	0	0	0	3192
8	0	0	0	0	0	3	63	176	218	330	380	401	179	296	208	160	105	82	40	0	0	0	0	0	2641
9	0	0	0	0	0	7	94	194	259	316	353	381	338	300	286	259	209	127	34	0	0	0	0	0	3157
10	0	0	0	0	0	6	79	151	284	396	423	395	395	402	302	284	183	112	41	0	0	0	0	0	3452
11	0	0	0	0	0	6	49	58	141	195	208	375	429	403	307	228	188	139	44	0	0	0	0	0	2769
12	0	0	0	0	0	6	71	127	165	201	299	338	259	240	255	165	133	103	45	0	0	0	0	0	2409
13	0	0	0	0	0	8	73	133	143	160	165	170	180	184	165	158	133	95	42	1	0	0	0	0	1809
14	0	0	0	0	0	8	75	189	268	435	517	374	314	289	281	240	197	122	46	1	0	0	0	0	3355
15	0	0	0	0	0	11	76	127	178	185	186	195	198	202	171	165	132	99	42	0	0	0	0	0	1968
16	0	0	0	0	0	8	85	191	303	302	323	341	353	330	308	263	219	132	46	0	0	0	0	0	3204
17	0	0	0	0	0	4	73	189	305	411	500	512	535	460	398	150	249	181	51	1	0	0	0	0	4020
18	0	0	0	0	0	8	89	207	336	421	449	486	474	419	342	277	208	127	50	1	0	0	0	0	3894
19	0	0	0	0	0	10	77	116	41	184	235	297	313	324	263	192	151	108	46	1	0	0	0	0	2361
20	0	0	0	0	0	13	94	151	203	232	236	247	235	234	239	229	188	128	50	1	0	0	0	0	2481
21	0	0	0	0	0	9	90	188	284	359	405	430	414	399	385	320	236	147	52	1	0	0	0	0	3718
22	0	0	0	0	0	9	87	175	231	288	335	430	522	452	394	341	261	151	51	1	0	0	0	0	3727
23	0	0	0	0	0	9	90	191	272	343	394	432	477	450	416	343	241	150	51	0	0	0	0	0	3859
24	0	0	0	0	0	11	91	180	248	282	333	392	404	370	323	274	230	148	56	1	0	0	0	0	3342
25	0	0	0	0	0	12	88	202	286	307	324	353	350	345	323	282	215	146	56	2	0	0	0	0	3289
26	0	0	0	0	0	12	96	170	228	254	292	364	406	384	318	276	222	158	67	4	0	0	0	0	3250
27	0	0	0	0	0	6	52	171	339	429	505	503	550	320	67	55	143	72	40	2	0	0	0	0	3254
28	0	0	0	0	0	14	97	210	321	436	478	561	542	491	382	223	251	131	44	1	0	0	0	0	4184
29	0	0	0	0	0	10	98	199	306	326	443	439	451	284	212	302	234	148	62	2	0	0	0	0	3517
30	0	0	0	0	0	16	87	194	271	358	455	414	441	440	409	282	176	88	48	1	0	0	0	0	3680
31	0	0	0	0	0	11	72	189	158	286	317	342	332	305	260	214	154	114	60	3	0	0	0	0	2817
Avg	0	0	0	0	0	8	75	162	231	292	334	365	369	338	273	219	184	119	45	1	0	0	0	0	3013
S D	0	0	0	0	0	4	16	39	75	95	106	89	104	88	92	79	51	31	10	1	0	0	0	0	649
S/A	0	0	0	0	0	0.45	0.21	0.24	0.33	0.32	0.32	0.24	0.28	0.26	0.34	0.36	0.28	0.26	0.22	1.09	0	0	0	0	0.22
Min	0	0	0	0	0	1	45	58	41	117	137	170	179	184	57	53	42	32	26	0	0	0	0	0	1809
Max	0	0	0	0	0	16	98	210	339	436	517	561	550	491	416	343	261	181	67	4	0	0	0	0	4184

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5127 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