

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - June 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	9	68	173	299	574	789	939	883	758	692	601	414	205	84	4	0	0	0	0	6491
2	0	0	0	0	0	10	72	139	302	705	834	870	763	902	679	512	476	279	91	4	0	0	0	0	6638
3	0	0	0	0	0	9	120	334	543	728	875	960	991	957	834	682	486	275	93	3	0	0	0	0	7890
4	0	0	0	0	0	18	157	358	568	751	883	950	806	826	867	675	484	253	72	5	0	0	0	0	7676
5	0	0	0	0	0	15	119	208	387	611	653	587	508	456	790	573	160	289	94	2	0	0	0	0	5452
6	0	0	0	0	0	13	122	188	291	361	532	702	952	568	803	615	501	279	87	6	0	0	0	0	6021
7	0	0	0	0	0	8	140	337	572	780	903	1008	1037	989	893	717	487	317	113	4	0	0	0	0	8305
8	0	0	0	0	0	28	167	358	553	754	792	888	999	1000	888	655	492	311	61	3	0	0	0	0	7949
9	0	0	0	0	0	18	115	282	503	597	755	824	965	796	825	519	276	261	77	6	0	0	0	0	6820
10	0	0	0	0	0	14	103	229	472	705	819	856	899	822	805	584	129	51	10	0	0	0	0	0	6499
11	0	0	0	0	0	11	89	329	412	725	864	953	742	605	512	415	281	279	82	13	0	0	0	0	6310
12	0	0	0	0	0	14	110	341	559	735	900	912	744	848	837	567	495	317	117	6	0	0	0	0	7503
13	0	0	0	0	0	12	126	292	536	563	733	958	822	904	656	424	521	300	118	7	0	0	0	0	6972
14	0	0	0	0	0	15	121	269	543	721	788	942	971	944	637	516	425	261	93	6	0	0	0	0	7251
15	0	0	0	0	0	18	91	274	340	666	813	921	976	966	854	689	469	257	100	6	0	0	0	0	7439
16	0	0	0	0	0	13	137	319	520	750	847	931	1002	939	759	609	517	314	111	2	0	0	0	0	7770
17	0	0	0	0	0	17	145	345	545	720	850	864	977	809	777	669	511	306	105	6	0	0	0	0	7647
18	0	0	0	0	0	23	148	353	533	701	872	961	983	946	851	688	493	289	103	4	0	0	0	0	7949
19	0	0	0	0	0	17	103	343	520	672	795	905	739	547	29	7	5	3	5	2	0	0	0	0	4691
20	0	0	0	0	0	25	126	291	546	661	829	962	1007	982	800	742	411	299	119	7	0	0	0	0	7806
21	0	0	0	0	0	20	137	340	542	737	874	966	937	771	855	689	505	296	103	7	0	0	0	0	7779
22	0	0	0	0	0	23	136	273	403	544	706	899	956	923	818	560	145	158	61	12	0	0	0	0	6617
23	0	0	0	0	0	12	129	322	507	704	786	764	502	348	469	676	289	254	133	8	0	0	0	0	5903
24	0	0	0	0	0	15	135	326	515	699	830	900	665	323	713	695	446	265	104	5	0	0	0	0	6636
25	0	0	0	0	0	14	116	303	513	698	846	789	830	921	821	285	473	313	102	7	0	0	0	0	7030
26	0	0	0	0	0	15	126	312	513	701	841	910	779	934	832	673	477	274	97	6	0	0	0	0	7490
27	0	0	0	0	0	14	122	302	497	682	822	909	943	916	830	677	202	82	62	7	0	0	0	0	7068
28	0	0	0	0	0	13	114	290	486	655	801	909	943	817	795	638	447	254	73	2	0	0	0	0	7235
29	0	0	0	0	0	13	118	298	503	677	815	911	947	924	738	475	143	192	75	5	0	0	0	0	6834
30	0	0	0	0	0	14	135	316	504	706	859	959	976	950	854	712	518	311	117	8	0	0	0	0	7939
Avg	0	0	0	0	0	15	122	295	484	676	810	894	875	813	750	585	389	252	89	5	0	0	0	0	7054
S D	0	0	0	0	0	5	22	55	82	82	75	86	139	187	167	149	147	78	28	3	0	0	0	0	816
S/A	0	0	0	0	0	0.31	0.18	0.19	0.17	0.12	0.09	0.1	0.16	0.23	0.22	0.26	0.38	0.31	0.32	0.51	0	0	0	0	0.12
Min	0	0	0	0	0	8	68	139	291	361	532	587	502	323	29	7	5	3	5	0	0	0	0	0	4691
Max	0	0	0	0	0	28	167	358	572	780	903	1008	1037	1000	893	742	521	317	133	13	0	0	0	0	8305

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5116 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 - June 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	14	36	38	84	213	476	659	578	382	360	364	305	177	70	18	0	0	0	0	3773
2	0	0	0	0	0	27	39	41	60	557	608	510	396	563	402	350	521	406	146	12	0	0	0	0	4637
3	0	0	0	0	0	13	175	454	606	690	739	758	768	758	706	632	569	402	187	4	0	0	0	0	7460
4	0	0	0	0	0	49	369	583	729	804	818	782	579	654	769	697	610	347	87	15	0	0	0	0	7893
5	0	0	0	0	0	29	75	63	171	341	271	131	96	124	480	398	31	206	125	7	0	0	0	0	2547
6	0	0	0	0	0	21	113	43	48	85	190	267	581	271	557	439	542	386	117	20	0	0	0	0	3678
7	0	0	0	0	0	16	166	387	623	712	733	837	840	825	795	689	558	571	320	30	0	0	0	0	8103
8	0	0	0	0	0	141	326	452	653	705	527	588	818	901	863	660	630	554	82	17	0	0	0	0	7916
9	0	0	0	0	0	33	29	155	352	271	433	413	568	327	526	259	62	189	64	18	0	0	0	0	3700
10	0	0	0	0	0	24	47	99	301	547	573	496	551	513	622	239	17	15	4	0	0	0	0	0	4046
11	0	0	0	0	0	19	41	264	237	631	679	712	400	247	143	231	136	284	48	34	0	0	0	0	4105
12	0	0	0	0	0	19	137	500	687	730	660	553	409	458	593	321	566	591	338	14	0	0	0	0	6575
13	0	0	0	0	0	21	165	233	443	257	395	714	408	618	404	350	607	437	296	18	0	0	0	0	5366
14	0	0	0	0	0	17	143	260	579	660	538	768	783	752	409	339	394	318	134	16	0	0	0	0	6110
15	0	0	0	0	0	35	77	241	74	543	632	711	778	796	781	679	508	335	163	10	0	0	0	0	6364
16	0	0	0	0	0	27	140	365	542	737	632	701	837	769	508	460	666	535	251	4	0	0	0	0	7173
17	0	0	0	0	0	31	289	527	635	681	676	569	661	524	543	538	572	481	196	14	0	0	0	0	6938
18	0	0	0	0	0	97	368	622	685	737	833	853	838	819	792	713	602	450	202	11	0	0	0	0	8621
19	0	0	0	0	0	20	88	326	467	495	549	609	415	266	3	1	1	0	2	4	0	0	0	0	3246
20	0	0	0	0	0	27	134	377	653	624	714	813	867	856	620	656	368	471	295	29	0	0	0	0	7504
21	0	0	0	0	0	51	252	515	644	742	777	790	689	464	704	668	597	441	174	18	0	0	0	0	7524
22	0	0	0	0	0	29	162	261	222	241	328	561	709	711	625	311	40	59	26	22	0	0	0	0	4305
23	0	0	0	0	0	21	192	436	544	647	557	463	220	64	156	490	56	122	83	19	0	0	0	0	4071
24	0	0	0	0	0	25	231	437	537	611	627	599	318	90	453	594	397	187	74	14	0	0	0	0	5194
25	0	0	0	0	0	25	116	342	516	611	678	534	510	633	571	153	379	316	110	97	0	0	0	0	5590
26	0	0	0	0	0	21	124	333	482	588	623	619	422	596	565	526	420	297	112	8	0	0	0	0	5736
27	0	0	0	0	0	26	143	320	444	534	578	600	606	620	626	553	128	23	39	14	0	0	0	0	5253
28	0	0	0	0	0	18	105	254	388	434	495	597	612	473	491	410	303	193	49	1	0	0	0	0	4823
29	0	0	0	0	0	16	121	315	462	527	576	622	640	652	489	214	29	35	23	11	0	0	0	0	4732
30	0	0	0	0	0	27	133	338	484	652	738	779	778	791	756	669	606	465	210	12	0	0	0	0	7439
Avg	0	0	0	0	0	31	151	319	445	554	588	620	589	551	544	453	374	310	134	17	0	0	0	0	5681
S D	0	0	0	0	0	26	91	158	204	182	151	161	196	235	198	188	229	176	94	17	0	0	0	0	1662
S/A	0	0	0	0	0	0.82	0.6	0.5	0.46	0.33	0.26	0.26	0.33	0.43	0.36	0.41	0.61	0.57	0.7	0.98	0	0	0	0	0.29
Min	0	0	0	0	0	13	29	38	48	85	190	131	96	64	3	1	1	0	2	0	0	0	0	0	2547
Max	0	0	0	0	0	141	369	622	729	804	833	853	867	901	863	713	666	591	338	97	0	0	0	0	8621

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 80258 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: XXXXXXX  
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 - June 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	8	60	157	245	411	361	305	316	393	378	335	240	140	69	3	0	0	0	0	3421
2	0	0	0	0	0	9	63	122	265	272	293	379	374	368	332	255	181	124	61	4	0	0	0	0	3101
3	0	0	0	0	0	8	75	136	168	194	215	230	236	237	225	216	162	121	56	3	0	0	0	0	2281
4	0	0	0	0	0	14	68	104	118	129	154	197	237	204	202	165	132	114	55	4	0	0	0	0	1898
5	0	0	0	0	0	13	103	181	277	344	409	462	413	340	377	272	143	215	67	2	0	0	0	0	3619
6	0	0	0	0	0	13	98	170	260	296	362	442	380	313	316	289	190	129	62	5	0	0	0	0	3324
7	0	0	0	0	0	7	96	169	186	229	249	201	210	204	202	207	165	96	48	3	0	0	0	0	2273
8	0	0	0	0	0	16	93	160	147	209	323	320	194	143	138	165	132	93	42	3	0	0	0	0	2178
9	0	0	0	0	0	17	108	211	286	382	371	427	406	483	370	324	242	187	65	5	0	0	0	0	3883
10	0	0	0	0	0	12	92	186	282	281	308	378	357	336	262	403	119	46	9	0	0	0	0	0	3070
11	0	0	0	0	0	10	79	212	261	237	258	266	348	370	389	251	198	161	72	11	0	0	0	0	3124
12	0	0	0	0	0	14	78	121	134	172	313	379	342	409	320	324	172	85	48	5	0	0	0	0	2913
13	0	0	0	0	0	10	82	189	260	370	376	269	419	314	299	175	167	127	57	6	0	0	0	0	3119
14	0	0	0	0	0	15	84	150	186	211	303	202	199	226	280	259	198	137	63	5	0	0	0	0	2518
15	0	0	0	0	0	16	71	179	294	237	252	234	209	206	172	180	167	124	65	6	0	0	0	0	2410
16	0	0	0	0	0	11	104	161	181	180	285	255	176	205	318	269	129	100	56	1	0	0	0	0	2431
17	0	0	0	0	0	14	74	116	155	194	248	315	326	307	299	267	177	112	63	5	0	0	0	0	2671
18	0	0	0	0	0	15	61	84	112	132	129	138	157	163	159	155	140	108	58	4	0	0	0	0	1614
19	0	0	0	0	0	16	81	203	233	290	305	318	329	289	26	7	4	3	5	2	0	0	0	0	2110
20	0	0	0	0	0	26	90	126	145	181	192	178	151	163	255	253	201	112	55	6	0	0	0	0	2134
21	0	0	0	0	0	16	76	115	147	164	183	205	258	329	239	188	153	117	64	6	0	0	0	0	2260
22	0	0	0	0	0	22	96	163	269	357	414	358	256	243	270	321	120	135	57	11	0	0	0	0	3092
23	0	0	0	0	0	11	81	133	173	206	288	321	285	287	334	304	256	205	114	7	0	0	0	0	3005
24	0	0	0	0	0	14	79	138	186	229	272	324	351	236	320	249	212	186	88	5	0	0	0	0	2889
25	0	0	0	0	0	15	86	154	196	228	243	277	327	315	319	163	254	183	76	6	0	0	0	0	2844
26	0	0	0	0	0	15	95	168	218	249	287	314	364	364	336	278	227	153	71	5	0	0	0	0	3143
27	0	0	0	0	0	13	87	165	225	271	309	332	345	323	280	260	119	74	55	6	0	0	0	0	2864
28	0	0	0	0	0	12	88	181	249	323	361	335	339	362	364	327	267	174	61	2	0	0	0	0	3443
29	0	0	0	0	0	12	88	162	222	273	304	313	316	299	304	311	126	178	71	4	0	0	0	0	2984
30	0	0	0	0	0	12	100	173	208	206	205	209	209	193	189	208	159	121	70	7	0	0	0	0	2269
Avg	0	0	0	0	0	14	85	156	210	249	286	296	294	287	276	246	172	129	60	5	0	0	0	0	2763
S D	0	0	0	0	0	4	13	31	53	72	70	80	79	81	82	76	53	45	19	2	0	0	0	0	535
S/A	0	0	0	0	0	0.28	0.15	0.2	0.25	0.29	0.25	0.27	0.27	0.28	0.3	0.31	0.31	0.35	0.32	0.51	0	0	0	0	0.19
Min	0	0	0	0	0	7	60	84	112	129	129	138	151	143	26	7	4	3	5	0	0	0	0	0	1614
Max	0	0	0	0	0	26	108	212	294	411	414	462	419	483	389	403	267	215	114	11	0	0	0	0	3883

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5116 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