

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - June 2000**

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	19	110	361 ?	534	728	860	907	776	815	773	685	494	287	89	3	0	0	0	0	7440
2	0	0	0	0	0	17	130	373	542	720	840	924	951	907	814	661	473	271	85	3	0	0	0	0	7711
3	0	0	0	0	0	15	130	327	532	711	838	924	938	569	719	601	431	211	80	2	0	0	0	0	7029
4	0	0	0	0	0	14	105	305	496	563	796	899	899	609	760	569	75	2	21	8	0	0	0	0	6123
5	0	0	0	0	0	3	54	233	557	759	603	664	603	298	539	286	62	26	41	5	0	0	0	0	4734
6	0	0	0	0	0	10	65	268	463	572	739	783	880	791	869	717	526	315	106	5	0	0	0	0	7108
7	0	0	0	0	0	17	149	362	573	763	893	983	1006	942	786	519	484	299	98	5	0	0	0	0	7880
8	0	0	0	0	0	15	151	358	569	752	827	916	987	752	812	694	498	314	106	5	0	0	0	0	7757
9	0	0	0	0	0	21	151	347	329	732	753	958	918	955	855	711	514	299	99	4	0	0	0	0	7645
10	0	0	0	0	0	20	128	370 ?	488	678	804	941	942	972	841	720	528	313	106	5	0	0	0	0	7855
11	0	0	0	0	0	20	116	322	498	794	906	970	1004	969	865	710	516	308	107	6	0	0	0	0	8110
12	0	0	0	0	0	19	145	267	534	657	672	972	1016	967	847	702	515	309	107	5	0	0	0	0	7735
13	0	0	0	0	0	14	118	321 ?	475	603	530	558	607	663	213	67	20	33	79	15	0	0	0	0	4317
14	0	0	0	0	0	21	117	194	351	460	860	987	940	562	147	51	74	87	35	1	0	0	0	0	4886
15	0	0	0	0	0	18	118	69	362	747	615	721	977	732	735	97	103	154	30	2	0	0	0	0	5480
16	0	0	0	0	0	11	84	111	189	415	755	826	927	922	751	537	513	234	109	4	0	0	0	0	6389
17	0	0	0	0	0	23	146	364	331	632	813	951	961	961	857	323	192	103	39	3	0	0	0	0	6698
18	0	0	0	0	0	16	141	336	490	505	662	668	850	775	31 ?	18	52	107	59	5	0	0	0	0	4715
19	0	0	0	0	0	28	143	313	459	697	846	830	744	813	836	183	4 ?	6	9	2	0	0	0	0	5914
20	0	0	0	0	0	11	91	334	523	699	814	869	682	243	71	145	54	14	25	7	0	0	0	0	4583
21	0	0	0	0	0	11	125	251	435	552	598	498	169	164	295	327	434	245	68	2	0	0	0	0	4172
22	0	0	0	0	0	10	49	157	254	257	229	183	303	716	818	122	40	29	20	4	0	0	0	0	3193
23	0	0	0	0	0	2	41	147	236	629	822	747	918	444	666	540	493	237	72	7	0	0	0	0	6001
24	0	0	0	0	0	14	133	320	520	700	816	764	979	879	720	691	512	295	111	10	0	0	0	0	7464
25	0	0	0	0	0	14	107	340	523	704	687	365	658	623	857	600	442	169	76	3	0	0	0	0	6166
26	0	0	0	0	0	8	132	266	435	455	783	863	1004	922	739	424	661 ?	376 ?	115	3	0	0	0	0	7187
27	0	0	0	0	0	12	69	203	211	527	441	547	173	230	415	372	154	43	45	21	0	0	0	0	3463
28	0	0	0	0	0	18	133	337	541	723	798	509	676	840	744	682	415	105	18	2	0	0	0	0	6541
29	0	0	0	0	0	7	76	338	527	571	683	786	575	537	340	194	205	65	6	7	0	0	0	0	4919
30	0	0	0	0	0	6	35	79	249	439	639	616	955	941	832	675	495	289	106	7	0	0	0	0	6364
Avg	0	0	0	0	0	14	110	279	441	625	731	771	801	717	652	454	333	185	69	5	0	0	0	0	6186
S D	0	0	0	0	0	6	35	89	116	127	145	200	237	239	257	242	209	119	36	4	0	0	0	0	1409
S/A	0	0	0	0	0	0.4	0.31	0.32	0.26	0.2	0.2	0.26	0.3	0.33	0.4	0.53	0.63	0.64	0.52	0.76	0	0	0	0	0.23
Min	0	0	0	0	0	2	35	69	189	257	229	183	169	164	31	18	4	2	6	1	0	0	0	0	3193
Max	0	0	0	0	0	28	151	373	573	794	906	987	1016	972	869	720	661	376	115	21	0	0	0	0	8110

Daylight Data Recovery: 0% missing; 1% 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: 7.98 uV/Wm-2  
Serial Number: 28401F3  
Calibration Date: 5/19/1998

**Direct Normal Solar Radiation  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Savannah State College - June 2000**

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	58	198	719	707	794	827	771	579	649	720	766	688	539	222	3	0	0	0	0	8238
2	0	0	0	0	0	45	270	666	683	752	768	779	793	774	755	696	605	451	166	2	0	0	0	0	8205
3	0	0	0	0	0	26	227	484	624	695	732	756	730	313	529	493	392	150	67	2	0	0	0	0	6221
4	0	0	0	0	0	21	77	330	427	272	515	566	472	217	449	219	11	0	23	26	0	0	0	0	3625
5	0	0	0	0	0	2	19	228	689	741	175	102	112	28	101	94	9	9	29	12	0	0	0	0	2349
6	0	0	0	0	0	10	31	157	286	367	528	477	596	527	785	798	737	612	289	13	0	0	0	0	6212
7	0	0	0	0	0	45	335	604	737	816	838	850	845	800	681	368	534	528	228	18	0	0	0	0	8226
8	0	0	0	0	0	37	360	616	742	794	722	734	797	493	709	756	668	602	287	29	0	0	0	0	8347
9	0	0	0	0	0	61	350	594	251	753	619	814	732	841	843	818	729	563	250	121	0	0	0	0	8340
10	0	0	0	0	0	59	277	726	635	592	689	818	739	851	822	790	749	628	300	14	0	0	0	0	8688
11	0	0	0	0	0	51	232	540	564	839	867	886	913	913	881	828	747	598	286	12	0	0	0	0	9157
12	0	0	0	0	0	37	307	351	640	547	499	810	874	851	832	808	738	603	289	7	0	0	0	0	8192
13	0	0	0	0	0	22	169	553	403	428	292	262	293	392	30	10	5	14	61	47	0	0	0	0	2981
14	0	0	0	0	0	33	99	40	95	197	791	798	730	424	21	6	17	31	26	4	0	0	0	0	3311
15	0	0	0	0	0	32	56	21	335	637	417	460	818	592	565	24	33	49	18	5	0	0	0	0	4063
16	0	0	0	0	0	22	45	34	40	148	422	501	704	754	605	444	594	329	247	8	0	0	0	0	4896
17	0	0	0	0	0	34	241	448	165	466	617	705	763	808	760	107	48	34	25	9	0	0	0	0	5229
18	0	0	0	0	0	34	299	531	561	375	425	373	535	560	1	2	10	34	39	11	0	0	0	0	3791
19	0	0	0	0	0	102	322	486	549	714	768	594	464	546	739	41	0	1	6	5	0	0	0	0	5337
20	0	0	0	0	0	18	65	495	628	699	662	670	363	86	8	22	11	3	19	19	0	0	0	0	3767
21	0	0	0	0	0	24	94	176	294	245	186	69	19	18	34	49	158	85	16	6	0	0	0	0	1472
22	0	0	0	0	0	19	26	42	45	37	28	23	35	277	606	21	7	2	7	13	0	0	0	0	1189
23	0	0	0	0	0	6	20	41	41	470	707	445	588	141	410	401	534	190	39	11	0	0	0	0	4044
24	0	0	0	0	0	29	261	491	612	682	666	517	708	619	593	638	551	426	158	32	0	0	0	0	6982
25	0	0	0	0	0	29	163	487	600	658	433	83	304	338	763	539	423	207	104	172	0	0	0	0	5302
26	0	0	0	0	0	9	216	271	378	309	560	541	703	738	549	163	629	460	134	2	0	0	0	0	5661
27	0	0	0	0	0	23	25	50	38	177	83	217	18	28	78	76	31	14	38	156	0	0	0	0	1051
28	0	0	0	0	0	50	326	636	769	836	657	165	311	548	596	584	346	48	9	14	0	0	0	0	5893
29	0	0	0	0	0	10	97	550	539	360	454	477	247	204	52	37	45	17	3	226	0	0	0	0	3317
30	0	0	0	0	0	5	17	22	53	107	362	215	735	723	638	572	521	360	145	5	0	0	0	0	4481
Avg	0	0	0	0	0	32	174	380	438	517	544	516	551	502	505	372	352	253	118	34	0	0	0	0	5286
S D	0	0	0	0	0	21	118	236	246	244	224	265	268	276	301	314	299	243	108	56	0	0	0	0	2358
S/A	0	0	0	0	0	0.65	0.68	0.62	0.56	0.47	0.41	0.51	0.49	0.55	0.6	0.84	0.85	0.96	0.92	1.66	0	0	0	0	0.45
Min	0	0	0	0	0	2	17	21	38	37	28	23	18	18	1	2	0	0	3	2	0	0	0	0	1051
Max	0	0	0	0	0	102	360	726	769	839	867	886	913	913	881	828	749	628	300	226	0	0	0	0	9157

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

**Diffuse Solar Radiation on a Horizontal Surface (Shadow Band PSP)**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - June 2000**

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	14	63	88	97	115	123	166	207	202	156	123	103	81	45	3	0	0	0	0	1587
2	0	0	0	0	0	14	65	96	120	138	155	175	173	173	162	150	128	97	51	3	0	0	0	0	1700
3	0	0	0	0	0	13	74	115	147	173	185	195	221	271	263	238	204	153	68	2	0	0	0	0	2321
4	0	0	0	0	0	12	85	161	233	356	337	354	434	403	371	404	60	2	19	7	0	0	0	0	3238
5	0	0	0	0	0	3	49	127	130	188	443	566	493	272	453	213	56	23	37	4	0	0	0	0	3057
6	0	0	0	0	0	9	58	196	282	294	265	325	294	291	190	128	103	78	48	4	0	0	0	0	2563
7	0	0	0	0	0	13	66	99	118	131	146	164	174	181	194	247	181	94	51	4	0	0	0	0	1864
8	0	0	0	0	0	12	63	89	110	138	183	207	202	283	201	136	113	79	47	5	0	0	0	0	1868
9	0	0	0	0	0	15	64	88	162	148	201	173	197	154	122	105	93	78	48	4	0	0	0	0	1652
10	0	0	0	0	0	15	57	73	104	225	186	152	213	162	125	135	95	66	43	5	0	0	0	0	1654
11	0	0	0	0	0	15	59	89	144	145	132	116	105	99	98	95	83	72	47	5	0	0	0	0	1304
12	0	0	0	0	0	15	67	113	140	239	224	192	155	155	123	101	87	71	46	5	0	0	0	0	1734
13	0	0	0	0	0	13	73	142	232	267	269	304	318	288	187	59	17	28	70	14	0	0	0	0	2282
14	0	0	0	0	0	18	94	177	296	302	154	218	221	151	128	46	65	75	30	1	0	0	0	0	1977
15	0	0	0	0	0	17	104	61	147	253	250	276	171	165	240	78	86	134	26	2	0	0	0	0	2009
16	0	0	0	0	0	9	74	97	164	296	378	343	233	202	224	200	170	105	54	4	0	0	0	0	2552
17	0	0	0	0	0	23	85	169	229	268	266	271	208	190	189	239	164	89	35	3	0	0	0	0	2427
18	0	0	0	0	0	13	68	107	146	225	288	309	322	236	29	17	46	94	51	4	0	0	0	0	1955
19	0	0	0	0	0	18	78	103	124	144	162	259	286	293	188	151	4	6	8	2	0	0	0	0	1826
20	0	0	0	0	0	10	73	119	138	160	226	222	324	159	64	128	48	13	22	6	0	0	0	0	1712
21	0	0	0	0	0	9	100	175	261	362	436	432	150	147	265	291	339	211	64	1	0	0	0	0	3244
22	0	0	0	0	0	9	44	139	227	228	204	161	269	454	284	105	36	28	19	3	0	0	0	0	2212
23	0	0	0	0	0	2	36	128	211	257	195	318	337	309	303	247	177	152	65	6	0	0	0	0	2744
24	0	0	0	0	0	12	69	108	146	175	222	266	280	287	200	209	187	121	74	10	0	0	0	0	2366
25	0	0	0	0	0	12	64	130	156	198	304	285	358	301	188	186	194	93	52	3	0	0	0	0	2525
26	0	0	0	0	0	7	79	152	213	210	283	345	310	215	254	301	313	232	85	3	0	0	0	0	3001
27	0	0	0	0	0	11	62	182	188	386	369	339	155	203	348	315	135	38	39	12	0	0	0	0	2781
28	0	0	0	0	0	15	55	66	73	82	220	349	370	316	226	240	204	83	16	1	0	0	0	0	2317
29	0	0	0	0	0	7	49	106	205	289	284	325	331	340	294	168	178	58	6	6	0	0	0	0	2644
30	0	0	0	0	0	5	31	70	216	356	322	407	231	249	271	243	186	142	73	6	0	0	0	0	2806
Avg	0	0	0	0	0	12	67	119	172	225	247	274	258	238	211	177	128	87	45	5	0	0	0	0	2264
S D	0	0	0	0	0	4	16	36	56	80	84	97	88	81	90	87	78	54	20	3	0	0	0	0	519
S/A	0	0	0	0	0	0.37	0.25	0.31	0.33	0.36	0.34	0.36	0.34	0.34	0.42	0.5	0.61	0.62	0.45	0.64	0	0	0	0	0.23
Min	0	0	0	0	0	2	31	61	73	82	123	116	105	99	29	17	4	2	6	1	0	0	0	0	1304
Max	0	0	0	0	0	23	104	196	296	386	443	566	493	454	453	404	339	232	85	14	0	0	0	0	3244

Daylight Data Recovery: 0% missing; 1% 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: 7.53 uV/Wm-2  
Serial Number: 17862F3  
Calibration Date: 5/19/1998