

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - April 1997**

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	36	232	477	691	861	959	989	941	774	567	243	124	31	0	0	0	0	0	6925
2	0	0	0	0	0	0	38	215	454	651	845	874	991	815	730	370	426	238	27	0	0	0	0	0	6673
3	0	0	0	0	0	0	44	191	425	668	834	929	966	924	810	642	429	196	24	0	0	0	0	0	7083
4	0	0	0	0	0	0	45	190	410	659	830	933	971	941	822	654	391	109	28	0	0	0	0	0	6984
5	0	0	0	0	0	0	42	185	423	631	809	872	719	717	655	616	421	152	29	0	0	0	0	0	6272
6	0	0	0	0	0	0	46	221	420	655	842	822	795	584	431	246	98	19	3	0	0	0	0	0	5180
7	0	0	0	0	0	0	23	50	254	559	827	939	957	815	824	649	437	208	30	0	0	0	0	0	6572
8	0	0	0	0	0	0	50	249	485	706	876	982	1022	792	790	544	351	157	12	0	0	0	0	0	7019
9	0	0	0	0	0	0	23	140	420	467	729	956	989	934	820	662	411	205	29	0	0	0	0	0	6784
10	0	0	0	0	0	0	53	247	481	699	868	973	1005	965	849	675	455	218	33	0	0	0	0	0	7523
11	0	0	0	0	0	0	52	196	440	588	478	201	630	300	184	326	151	77	15	0	0	0	0	0	3639
12	0	0	0	0	0	0	8	22	61	201	175	535	614	500	556	525	340	137	17	0	0	0	0	0	3691
13	0	0	0	0	0	0	49	205	434	620	568	381	646	768	689	590	322	172	22	0	0	0	0	0	5466
14	0	0	0	0	0	0	28	142	180	274	314	274	200	199	137	117	72	36	9	0	0	0	0	0	1982
15	0	0	0	0	0	0	35	193	477	706	876	821	973	963	766	673	450	204	20	0	0	0	0	0	7157
16	0	0	0	0	0	0	53	235	472	724	883	977	936	937	829	659	430	219	44	0	0	0	0	0	7397
17	0	0	0	0	0	0	66	226	457	706	829	916	973	564	529	447	433	193	37	0	0	0	0	0	6377
18	0	0	0	0	0	1	76	290	524	739	915	1021	1052	1000	883	697	471	233	43	0	0	0	0	0	7945
19	0	0	0	0	0	1	83	291	468	700	798	957	1013	923	704	515	359	177	33	0	0	0	0	0	7020
20	0	0	0	0	0	1	72	263	482	687	850	947	940	764	674	236	216	142	32	0	0	0	0	0	6306
21	0	0	0	0	0	1	72	263	489	697	853	942	1014	822	761	513	223	96	27	0	0	0	0	0	6774
22	0	0	0	0	0	1	71	141	252	477	723	785	840	823	811	619	373	178	41	0	0	0	0	0	6136
23	0	0	0	0	0	0	2	7	15	72	75	120	180	669	749	566	485	149	38	0	0	0	0	0	3127
24	0	0	0	0	0	2	90	303	536	745	901	1012	1041	982	863	681	472	211	30	0	0	0	0	0	7869
25	0	0	0	0	0	2	85	215	460	722	714	485	718	463	848	697	328	155	23	0	0	0	0	0	5915
26	0	0	0	0	0	3	88	244	303	236	219	137	238	60	51	55	32	15	1	0	0	0	0	0	1683
27	0	0	0	0	0	0	7	32	73	129	187	363	414	256	265	252	125	42	18	0	0	0	0	0	2163
28	0	0	0	0	0	0	2	4	22	103	228	258	173	99	182	324	270	121	53	0	0	0	0	0	1839
29	0	0	0	0	0	3	100	314	538	746	758	615	696	689	606	196	168	147	45	0	0	0	0	0	5621
30	0	0	0	0	0	4	89	249	355	411	387	568	975	990	852	687	470	245	57	0	0	0	0	0	6338
Avg	0	0	0	0	0	1	51	192	376	556	668	719	789	707	648	500	328	153	28	0	0	0	0	0	5715
S/D	0	0	0	0	0	1	27	87	155	212	264	297	279	277	242	190	133	64	13	0	0	0	0	0	1871
S/A	0	0	0	0	0	1.62	0.54	0.45	0.41	0.38	0.39	0.41	0.35	0.39	0.37	0.38	0.41	0.42	0.46	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	2	4	15	72	75	120	173	60	51	55	32	15	1	0	0	0	0	0	1683
Max	0	0	0	0	0	4	100	314	538	746	915	1021	1052	1000	883	697	485	245	57	0	0	0	0	0	7945

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 16660 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 - April 1997**

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	204	679	892	957	991	957	914	834	698	541	60	79	124	0	0	0	0	0	7930
2	0	0	0	0	0	0	175	546	756	814	929	773	929	659	513	65	565	577	106	0	0	0	0	0	7407
3	0	0	0	0	0	0	229	470	741	905	956	969	975	962	927	873	768	537	100	0	0	0	0	0	9412
4	0	0	0	0	0	0	233	454	691	877	916	967	975	972	923	846	598	98	62	0	0	0	0	0	8612
5	0	0	0	0	0	0	110	350	666	731	785	693	367	403	482	738	676	268	52	0	0	0	0	0	6321
6	0	0	0	0	0	0	118	437	398	579	780	490	297	112	72	47	27	7	5	0	0	0	0	0	3368
7	0	0	0	0	0	0	28	22	80	498	896	941	845	715	892	860	757	539	125	0	0	0	0	0	7199
8	0	0	0	0	0	0	203	624	823	933	990	1017	1014	602	680	507	410	124	26	0	0	0	0	0	7952
9	0	0	0	0	0	0	29	91	286	80	493	922	971	934	912	873	665	506	198	0	0	0	0	0	6963
10	0	0	0	0	0	0	181	568	766	876	934	962	969	971	948	893	787	565	125	0	0	0	0	0	9546
11	0	0	0	0	0	0	56	161	555	488	90	32	164	31	31	46	45	40	14	0	0	0	0	0	1753
12	0	0	0	0	0	0	7	11	17	43	29	161	244	206	308	366	233	107	19	0	0	0	0	0	1753
13	0	0	0	0	0	0	72	204	384	435	104	57	177	348	406	506	220	151	23	0	0	0	0	0	3089
14	0	0	0	0	0	0	30	54	50	42	58	45	32	33	25	25	21	19	11	0	0	0	0	0	446
15	0	0	0	0	0	0	39	226	686	848	887	527	860	953	688	762	678	355	43	0	0	0	0	0	7552
16	0	0	0	0	0	4	61	257	625	868	920	929	782	851	833	786	642	464	128	0	0	0	0	0	8149
17	0	0	0	0	0	2	153	379	634	818	791	783	766	207	297	327	583	329	67	0	0	0	0	0	6137
18	0	0	0	0	0	2	226	617	785	882	958	992	1001	986	956	886	767	552	147	0	0	0	0	0	9756
19	0	0	0	0	0	1	267	563	570	732	536	796	877	811	485	337	362	183	49	0	0	0	0	0	6570
20	0	0	0	0	0	4	148	443	610	722	791	823	757	457	380	56	117	121	33	0	0	0	0	0	5462
21	0	0	0	0	0	7	131	431	649	777	828	842	872	605	652	442	115	34	32	0	0	0	0	0	6419
22	0	0	0	0	0	5	60	46	62	175	398	473	584	670	761	658	424	246	62	0	0	0	0	0	4625
23	0	0	0	0	0	1	2	2	4	16	14	20	29	213	568	541	676	148	51	0	0	0	0	0	2285
24	0	0	0	0	0	6	236	589	774	867	900	944	959	932	882	799	682	372	166	0	0	0	0	0	9106
25	0	0	0	0	0	15	200	271	524	723	497	194	328	181	693	504	255	75	25	0	0	0	0	0	4485
26	0	0	0	0	0	13	51	168	73	50	39	22	38	10	10	13	10	5	2	0	0	0	0	0	503
27	0	0	0	0	0	2	5	14	20	26	33	56	42	38	35	34	38	21	18	0	0	0	0	0	382
28	0	0	0	0	0	0	1	1	6	21	41	33	27	17	29	68	126	61	102	7	0	0	0	0	539
29	0	0	0	0	0	36	266	619	733	842	539	197	286	250	284	41	41	117	84	6	0	0	0	0	4341
30	0	0	0	0	0	18	89	324	292	205	141	284	773	909	890	839	713	513	164	14	0	0	0	0	6169
Avg	0	0	0	0	0	4	120	321	472	561	575	563	595	529	542	476	402	241	72	1	0	0	0	0	5474
S/D	0	0	0	0	0	8	87	223	296	344	370	381	367	356	324	327	285	200	54	3	0	0	0	0	2950
S/A	0	0	0	0	0	1.94	0.72	0.69	0.63	0.61	0.64	0.68	0.62	0.67	0.6	0.69	0.71	0.83	0.75	3.25	0	0	0	0	0.54
Min	0	0	0	0	0	0	1	1	4	16	14	20	27	10	10	13	10	5	2	0	0	0	0	0	382
Max	0	0	0	0	0	36	267	679	892	957	991	1017	1014	986	956	893	787	577	198	14	0	0	0	0	9756

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 16660 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 - April 1997**

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	16	47	60	79	97	141	183	230	239	220	215	106	23	0	0	0	0	0	1655
2	0	0	0	0	0	0	21	66	100	128	123	212	168	251	331	327	179	85	16	0	0	0	0	0	2006
3	0	0	0	0	0	0	21	59	68	81	88	94	100	99	94	86	72	51	13	0	0	0	0	0	927
4	0	0	0	0	0	0	22	61	73	87	112	97	101	104	106	114	109	79	22	0	0	0	0	0	1088
5	0	0	0	0	0	0	33	83	96	154	191	272	391	371	287	145	104	72	23	0	0	0	0	0	2220
6	0	0	0	0	0	0	31	95	231	266	226	397	528	486	374	215	85	18	2	0	0	0	0	0	2956
7	0	0	0	0	0	0	20	43	214	226	116	116	197	195	126	93	78	58	17	0	0	0	0	0	1499
8	0	0	0	0	0	0	25	60	75	84	87	90	106	266	259	211	154	117	11	0	0	0	0	0	1546
9	0	0	0	0	0	0	20	110	283	410	341	143	109	118	103	93	89	61	17	0	0	0	0	0	1896
10	0	0	0	0	0	0	29	71	94	108	117	123	124	114	101	91	77	58	18	0	0	0	0	0	1125
11	0	0	0	0	0	0	46	141	155	262	407	172	481	273	160	296	130	66	14	0	0	0	0	0	2601
12	0	0	0	0	0	0	7	19	52	171	152	390	390	320	308	285	233	103	15	0	0	0	0	0	2445
13	0	0	0	0	0	0	39	142	238	326	484	330	484	460	375	260	213	126	19	0	0	0	0	0	3496
14	0	0	0	0	0	0	25	125	155	245	266	233	171	170	117	100	62	31	8	0	0	0	0	0	1707
15	0	0	0	0	0	0	31	111	113	118	150	349	180	117	213	166	113	100	16	0	0	0	0	0	1776
16	0	0	0	0	0	0	45	143	136	120	126	140	214	180	161	136	116	79	31	0	0	0	0	0	1630
17	0	0	0	0	0	0	43	96	118	135	178	209	264	378	286	231	145	95	28	0	0	0	0	0	2207
18	0	0	0	0	0	1	40	79	104	121	122	122	124	119	112	104	90	67	24	0	0	0	0	0	1228
19	0	0	0	0	0	1	40	97	162	184	352	234	197	196	311	289	184	129	26	0	0	0	0	0	2401
20	0	0	0	0	0	1	46	107	150	176	191	198	233	352	366	198	161	108	28	0	0	0	0	0	2315
21	0	0	0	0	0	1	49	109	135	145	160	173	200	279	236	217	161	86	24	0	0	0	0	0	1975
22	0	0	0	0	0	1	62	125	218	351	390	351	293	219	192	173	159	99	34	0	0	0	0	0	2668
23	0	0	0	0	0	0	2	6	13	61	63	102	153	477	284	203	140	102	32	0	0	0	0	0	1638
24	0	0	0	0	0	1	49	89	107	121	142	144	139	139	142	138	124	93	25	0	0	0	0	0	1454
25	0	0	0	0	0	2	51	123	165	199	297	306	409	302	281	351	189	130	20	0	0	0	0	0	2825
26	0	0	0	0	0	3	80	182	263	200	186	117	203	51	43	47	27	13	1	0	0	0	0	0	1416
27	0	0	0	0	0	0	6	27	62	109	159	312	374	221	237	228	106	36	15	0	0	0	0	0	1893
28	0	0	0	0	0	0	2	3	18	87	193	227	148	84	159	275	208	103	38	0	0	0	0	0	1546
29	0	0	0	0	0	3	49	80	122	128	303	431	425	461	367	167	147	115	33	0	0	0	0	0	2831
30	0	0	0	0	0	3	69	129	183	255	271	302	240	159	116	107	100	78	32	0	0	0	0	0	2044
Avg	0	0	0	0	0	1	34	88	132	171	203	218	244	240	216	186	132	82	21	0	0	0	0	0	1967
S D	0	0	0	0	0	1	19	43	69	86	106	101	127	125	98	79	50	31	9	0	0	0	0	0	607
S/A	0	0	0	0	0	1.6	0.56	0.49	0.52	0.5	0.52	0.47	0.52	0.52	0.45	0.43	0.38	0.38	0.43	5.39	0	0	0	0	0.31
Min	0	0	0	0	0	0	2	3	13	61	63	90	100	51	43	47	27	13	1	0	0	0	0	0	927
Max	0	0	0	0	0	3	80	182	283	410	484	431	528	486	375	351	233	130	38	0	0	0	0	0	3496

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 16660 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