

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - June 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	13	88	167	193	151	143	345	299	345	566	351	455	211	57	1	0	0	0	0	3385
2	0	0	0	0	0	27	195	332	596	790	909	1029	809	533	771	490	283	224	59	5	0	0	0	0	7054
3	0	0	0	0	0	17	199	356	513	722	874	962	724	584	732	712	421	101	74	3	0	0	0	0	6996
4	0	0	0	0	0	7	34	49	164	438	465	484	379	369	249	211	128	70	26	2	0	0	0	0	3075
5	0	0	0	0	0	6	76	162	251	189	276	273	168	210	114	100	62	23	10	1	0	0	0	0	1922
6	0	0	0	0	0	1	20	59	45	78	115	203	537	244	147	113	86	64	14	1	0	0	0	0	1727
7	0	0	0	0	0	4	26	79	140	137	189	296	359	453	221	232	179	81	30	3	0	0	0	0	2430
8	0	0	0	0	0	5	55	289	585	727	659	958	1033	921	759	616	347	179	75	5	0	0	0	0	7213
9	0	0	0	0	0	19	158	365	425	743	814	960	702	855	888	728	532	314	111	6	0	0	0	0	7621
10	0	0	0	0	0	23	165	368	583	712	958	674	637	472	171	215	236	171	60	6	0	0	0	0	5451
11	0	0	0	0	0	12	85	214	553	727	904	854	831	715	665	550	393	160	82	3	0	0	0	0	6746
12	0	0	0	0	0	22	137	376	318	374	702	1008	1086	926	753	506	234	144	75	10	0	0	0	0	6673
13	0	0	0	0	0	11	80	191	515	514	637	578	776	680	333	553	363	222	87	6	0	0	0	0	5545
14	0	0	0	0	0	8	94	172	361	296	850	735	646	410	110	548	519	180	22	10	0	0	0	0	4960
15	0	0	0	0	0	11	66	238	399	660	500	636	887	639	268	456	447	171	85	5	0	0	0	0	5467
16	0	0	0	0	0	12	130	319	544	755	849	778	594	966	733	543	256	139	60	2	0	0	0	0	6681
17	0	0	0	0	0	21	82	222	298	728	793	830	909	678	622	367	285	24	2	0	0	0	0	0	5861
18	0	0	0	0	0	15	87	175	309	475	640	600	120	294	45	74	111	150	75	7	0	0	0	0	3176
19	0	0	0	0	0	10	75	240	296	407	504	499	793	710	652	672	453	190	28	0	0	0	0	0	5529
20	0	0	0	0	0	13	82	238	534	656	855	756	776	499	123	170	73	281	14	1	0	0	0	0	5071
21	0	0	0	0	0	21	149	308	549	724	916	821	889	893	239	422	190	111	90	3	0	0	0	0	6324
22	0	0	0	0	0	17	141	342	564	736	868	966	718	553	777	691	354	195	128	8	0	0	0	0	7058
23	0	0	0	0	0	12	129	324	555	727	823	437	922	828	860	698	510	300	107	3	0	0	0	0	7236
24	0	0	0	0	0	7	114	295	418	620	878	998	1024	991	874	752	539	328	117	3	0	0	0	0	7959
25	0	0	0	0	0	19	150	268	422	711	790	1048	1019	974	887	741	540	328	122	3	0	0	0	0	8023
26	0	0	0	0	0	19	145	326	482	652	648	803	625	446	796	712	505	272	116	8	0	0	0	0	6554
27	0	0	0	0	0	25	115	157	335	743	897	900	806	937	741	218	31	149	117	4	0	0	0	0	6174
28	0	0	0	0	0	3	28	99	276	472	610	478	269	69	99	49	16	31	20	6	0	0	0	0	2523
29	0	0	0	0	0	6	45	156	302	710	774	763	879	672	593	638	488	130	62	3	0	0	0	0	6222
30	0	0	0	0	0	13	127	315	502	497	813	852	958	839	606	298	138	120	87	4	0	0	0	0	6170
Avg	0	0	0	0	0	13	103	240	401	562	688	718	706	623	513	447	306	169	67	4	0	0	0	0	5561
S D	0	0	0	0	0	7	48	95	149	211	238	243	260	253	290	226	171	87	37	3	0	0	0	0	1817
S/A	0	0	0	0	0	0.52	0.47	0.4	0.37	0.37	0.35	0.34	0.37	0.41	0.57	0.51	0.56	0.51	0.56	0.65	0	0	0	0	0.33
Min	0	0	0	0	0	1	20	49	45	78	115	203	120	69	45	49	16	23	2	0	0	0	0	0	1727
Max	0	0	0	0	0	27	199	376	596	790	958	1048	1086	991	888	752	540	328	128	10	0	0	0	0	8023

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 26903 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 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	31	58	50	29	30	25	34	46	53	207	62	266	82	44	2	0	0	0	0	1019
2	0	0	0	0	0	54	419	460	753	711	759	783	525	252	540	291	114	181	50	12	0	0	0	0	5903
3	0	0	0	0	0	32	272	359	415	628	668	749	447	299	532	765	415	33	63	2	0	0	0	0	5679
4	0	0	0	0	0	11	23	17	39	55	63	69	50	56	42	42	32	27	22	5	0	0	0	0	554
5	0	0	0	0	0	13	46	53	39	33	30	42	25	35	16	19	17	8	3	3	0	0	0	0	381
6	0	0	0	0	0	2	6	17	12	16	20	33	78	39	26	24	24	26	4	4	0	0	0	0	330
7	0	0	0	0	0	8	13	27	35	28	33	48	57	55	40	38	34	32	13	4	0	0	0	0	464
8	0	0	0	0	0	10	29	297	642	642	258	667	838	702	446	389	139	51	45	12	0	0	0	0	5167
9	0	0	0	0	0	53	390	575	279	605	532	647	209	585	864	815	739	587	290	67	0	0	0	0	7237
10	0	0	0	0	0	89	451	674	809	646	663	188	123	65	23	39	49	93	42	37	0	0	0	0	3990
11	0	0	0	0	0	27	52	66	592	659	763	403	384	340	276	366	295	121	161	2	0	0	0	0	4507
12	0	0	0	0	0	59	232	533	86	95	328	921	940	769	585	363	92	96	57	26	0	0	0	0	5183
13	0	0	0	0	0	19	40	118	382	143	272	162	382	369	134	376	256	231	150	6	0	0	0	0	3041
14	0	0	0	0	0	15	48	46	99	131	505	365	239	130	19	328	651	161	12	21	0	0	0	0	2771
15	0	0	0	0	0	21	23	60	141	403	135	318	563	269	65	247	342	68	75	9	0	0	0	0	2741
16	0	0	0	0	0	25	131	398	580	609	553	369	247	635	462	311	55	42	39	7	0	0	0	0	4463
17	0	0	0	0	0	20	43	64	75	626	573	508	539	365	382	206	232	5	1	1	0	0	0	0	3638
18	0	0	0	0	0	33	46	63	129	210	306	335	15	46	5	12	24	44	35	16	0	0	0	0	1318
19	0	0	0	0	0	21	39	48	31	32	52	49	308	297	374	448	318	87	16	12	0	0	0	0	2134
20	0	0	0	0	0	31	42	119	426	482	634	393	422	208	17	28	17	274	4	5	0	0	0	0	3102
21	0	0	0	0	0	48	308	461	683	758	813	590	619	626	50	330	47	32	138	7	0	0	0	0	5508
22	0	0	0	0	0	33	285	540	716	707	675	724	379	188	486	542	223	52	100	38	0	0	0	0	5689
23	0	0	0	0	0	19	208	448	595	680	610	214	598	564	738	700	627	470	203	46	0	0	0	0	6719
24	0	0	0	0	0	12	168	556	403	516	794	917	934	929	789	858	793	657	335	49	0	0	0	0	8710
25	0	0	0	0	0	67	390	368	405	703	593	879	899	898	900	860	775	650	357	460	0	0	0	0	9204
26	0	0	0	0	0	66	359	510	430	556	443	561	339	221	664	760	646	412	221	8	0	0	0	0	6195
27	0	0	0	0	0	75	174	41	112	784	836	618	508	762	548	138	8	143	196	59	0	0	0	0	5003
28	0	0	0	0	0	9	9	24	123	113	106	56	74	10	16	7	4	10	11	22	0	0	0	0	592
29	0	0	0	0	0	20	26	34	91	547	540	480	565	380	352	601	539	99	32	4	0	0	0	0	4310
30	0	0	0	0	0	50	202	447	494	277	525	527	577	500	332	100	23	32	43	7	0	0	0	0	4136
Avg	0	0	0	0	0	32	151	249	321	414	437	422	398	355	331	336	260	160	92	32	0	0	0	0	3990
S D	0	0	0	0	0	22	143	221	257	274	271	284	276	275	284	281	261	192	100	81	0	0	0	0	2415
S/A	0	0	0	0	0	0.68	0.95	0.89	0.8	0.66	0.62	0.67	0.69	0.77	0.86	0.84	1	1.2	1.09	2.57	0	0	0	0	0.61
Min	0	0	0	0	0	2	6	17	12	16	20	33	15	10	5	7	4	5	1	1	0	0	0	0	330
Max	0	0	0	0	0	89	451	674	809	784	836	921	940	929	900	860	793	657	357	460	0	0	0	0	9204

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 26903 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 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	11	75	145	175	128	120	313	254	295	384	306	311	177	48	1	0	0	0	0	2744
2	0	0	0	0	0	25	94	130	132	238	232	275	293	292	309	276	220	157	50	5	0	0	0	0	2728
3	0	0	0	0	0	15	131	198	258	234	277	240	284	298	279	149	172	89	63	3	0	0	0	0	2690
4	0	0	0	0	0	6	29	42	140	396	409	417	330	315	213	180	109	60	22	2	0	0	0	0	2670
5	0	0	0	0	0	5	65	139	226	164	250	233	143	177	101	86	52	21	10	1	0	0	0	0	1672
6	0	0	0	0	0	1	18	52	38	65	97	172	460	207	124	95	72	54	13	1	0	0	0	0	1470
7	0	0	0	0	0	3	23	67	118	116	160	250	304	401	186	205	160	69	27	2	0	0	0	0	2092
8	0	0	0	0	0	5	47	155	184	238	433	315	208	251	368	326	265	159	66	5	0	0	0	0	3023
9	0	0	0	0	0	15	63	118	244	271	339	337	496	302	136	125	105	85	51	6	0	0	0	0	2692
10	0	0	0	0	0	15	58	75	84	219	378	495	516	411	151	186	207	136	52	5	0	0	0	0	2986
11	0	0	0	0	0	10	73	183	185	220	225	467	453	438	420	283	221	115	46	3	0	0	0	0	3340
12	0	0	0	0	0	18	86	138	268	298	402	119	160	194	242	232	179	108	64	9	0	0	0	0	2518
13	0	0	0	0	0	9	71	134	309	402	396	422	400	324	217	271	214	128	57	6	0	0	0	0	3360
14	0	0	0	0	0	7	83	152	301	191	400	383	410	250	94	313	140	108	19	6	0	0	0	0	2857
15	0	0	0	0	0	10	60	213	317	350	381	328	331	382	212	315	239	142	69	5	0	0	0	0	3355
16	0	0	0	0	0	11	95	146	186	284	361	423	351	360	333	307	224	122	52	2	0	0	0	0	3256
17	0	0	0	0	0	20	72	193	250	243	282	340	406	335	291	213	139	20	2	0	0	0	0	0	2806
18	0	0	0	0	0	13	76	150	224	315	369	281	105	249	40	65	97	133	68	6	0	0	0	0	2192
19	0	0	0	0	0	9	66	220	277	382	457	452	489	428	324	333	288	153	25	0	0	0	0	0	3901
20	0	0	0	0	0	12	72	181	277	281	291	379	359	298	108	149	63	172	13	1	0	0	0	0	2656
21	0	0	0	0	0	19	76	109	130	140	193	253	279	293	194	181	161	98	61	3	0	0	0	0	2190
22	0	0	0	0	0	15	71	109	124	192	267	268	344	373	354	283	214	175	107	8	0	0	0	0	2906
23	0	0	0	0	0	11	76	133	189	205	279	235	332	290	213	173	139	110	61	3	0	0	0	0	2448
24	0	0	0	0	0	7	72	146	161	230	168	114	103	102	179	108	71	62	41	3	0	0	0	0	1568
25	0	0	0	0	0	15	56	110	175	168	266	201	132	114	98	94	82	65	45	3	0	0	0	0	1625
26	0	0	0	0	0	15	61	112	221	222	255	261	290	233	219	140	121	103	66	7	0	0	0	0	2326
27	0	0	0	0	0	21	81	139	265	139	154	304	305	207	267	76	26	124	95	4	0	0	0	0	2208
28	0	0	0	0	0	3	26	88	195	385	516	425	196	60	86	43	14	27	18	5	0	0	0	0	2086
29	0	0	0	0	0	6	39	141	243	303	297	302	322	307	289	186	162	91	55	2	0	0	0	0	2744
30	0	0	0	0	0	12	78	124	209	285	349	344	389	359	313	219	125	107	77	4	0	0	0	0	2995
Avg	0	0	0	0	0	11	66	135	204	243	300	312	315	285	225	197	153	106	48	4	0	0	0	0	2603
S D	0	0	0	0	0	6	23	43	67	86	103	96	114	93	99	87	75	44	25	2	0	0	0	0	573
S/A	0	0	0	0	0	0.5	0.35	0.32	0.33	0.35	0.34	0.31	0.36	0.33	0.44	0.44	0.49	0.41	0.52	0.61	0	0	0	0	0.22
Min	0	0	0	0	0	1	18	42	38	65	97	114	103	60	40	43	14	20	2	0	0	0	0	0	1470
Max	0	0	0	0	0	25	131	220	317	402	516	495	516	438	420	333	311	177	107	9	0	0	0	0	3901

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 26903 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