

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - July 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	8	99	287	512	670	778	512	555	122	346	245	78	232	78	8	0	0	0	0	4529
2	0	0	0	0	0	13	126	319	528	718	880	870	1017	839	800	690	511	298	105	7	0	0	0	0	7722
3	0	0	0	0	0	9	98	291	374	673	843	947	902	846	809	663	475	283	105	7	0	0	0	0	7326
4	0	0	0	0	0	11	106	286	491	666	832	926	925	520	661	671	474	282	108	8	0	0	0	0	6969
5	0	0	0	0	0	12	123	310	506	688	843	915	734	212	80	154	193	127	43	5	0	0	0	0	4943
6	0	0	0	0	0	18	175	199	348	735	882	966	970	948	828	718	529	308	115	4	0	0	0	0	7743
7	0	0	0	0	0	11	132	311	552	696	772	782	835	310	51	10	14	18	9	1	0	0	0	0	4504
8	0	0	0	0	0	13	111	281	482	711	801	731	524	996	629	398	445	315	52	5	0	0	0	0	6494
9	0	0	0	0	0	10	126	209	443	705	845	851	757	637	752	35	32	156	165	13	0	0	0	0	5736
10	0	0	0	0	0	6	82	337	483	719	818	843	924	781	671	585	524	292	104	5	0	0	0	0	7176
11	0	0	0	0	0	6	92	241	270	549	584	619	506	469	215	413	354	223	74	7	0	0	0	0	4621
12	0	0	0	0	0	9	101	343	472	662	716	883	964	980	881	713	498	284	98	5	0	0	0	0	7609
13	0	0	0	0	0	11	112	334	524	734	886	979	959	935	714	727	533	282	103	8	0	0	0	0	7842
14	0	0	0	0	0	10	116	238	389	649	645	671	754	795	764	377	449	274	98	5	0	0	0	0	6232
15	0	0	0	0	0	1	59	147	230	655	796	880	907	850	596	662	466	266	86	1	0	0	0	0	6604
16	0	0	0	0	0	7	89	250	451	632	789	858	855	88	26	26	13	11	17	4	0	0	0	0	4116
17	0	0	0	0	0	5	94	306	521	695	839	888	901	765	522	594	308	21	0	0	0	0	0	0	6460
18	0	0	0	0	0	5	67	218	500	682	832	941	872	923	569	551	383	166	63	4	0	0	0	0	6774
19	0	0	0	0	0	7	101	290	501	685	832	763	629	415	451	374	374	241	88	7	0	0	0	0	5757
20	0	0	0	0	0	8	130	307	513	709	844	972	967	945	860	702	516	305	83	2	0	0	0	0	7862
21	0	0	0	0	0	8	102	277	438	511	709	906	928	970	871	686	521	311	112	4	0	0	0	0	7354
22	0	0	0	0	0	6	68	51	387	573	622	728	972	892	874	285	94	61	54	5	0	0	0	0	5672
23	0	0	0	0	0	4	100	294	463	639	798	886	822	951	628	466	420	349	108	3	0	0	0	0	6929
24	0	0	0	0	0	3	65	213	386	640	589	900	785	932	630	595	329	76	22	4	0	0	0	0	6169
25	0	0	0	0	0	1	52	137	499	443	681	533	35	36	42	97	188	155	50	2	0	0	0	0	2951
26	0	0	0	0	0	1	58	131	313	567	677	836	895	709	804	669	480	265	82	2	0	0	0	0	6490
27	0	0	0	0	0	5	86	261	432	526	740	696	862	860	764	653	464	253	43	2	0	0	0	0	6647
28	0	0	0	0	0	5	83	251	449	668	827	888	849	763	716	541	414	258	82	3	0	0	0	0	6796
29	0	0	0	0	0	2	75	261	480	687	814	909	991	808	578	582	490	223	22	0	0	0	0	0	6922
30	0	0	0	0	0	2	80	238	497	683	784	660	468	722	694	212	15	4	1	0	0	0	0	0	5060
31	0	0	0	0	0	1	10	38	56	48	68	125	100	101	73	31	67	26	4	0	0	0	0	0	747
Avg	0	0	0	0	0	7	94	247	435	633	754	802	779	681	577	456	344	205	70	4	0	0	0	0	6089
S/D	0	0	0	0	0	4	30	76	103	127	150	175	238	301	273	241	183	107	40	3	0	0	0	0	1551
S/A	0	0	0	0	0	0.6	0.32	0.31	0.24	0.2	0.2	0.22	0.31	0.44	0.47	0.53	0.53	0.52	0.58	0.7	0	0	0	0	0.25
Min	0	0	0	0	0	1	10	38	56	48	68	125	35	36	26	10	13	4	0	0	0	0	0	0	747
Max	0	0	0	0	0	18	175	343	552	735	886	979	1017	996	881	727	533	349	165	13	0	0	0	0	7862

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 32125 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 - July 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	14	60	286	528	535	450	152	172	16	36	27	20	283	124	13	0	0	0	0	2715
2	0	0	0	0	0	20	207	444	585	688	760	583	713	569	618	642	569	361	139	7	0	0	0	0	6904
3	0	0	0	0	0	19	61	296	244	501	663	716	544	470	552	536	461	339	143	6	0	0	0	0	5552
4	0	0	0	0	0	19	102	303	466	556	654	692	606	264	436	577	473	355	154	7	0	0	0	0	5664
5	0	0	0	0	0	20	234	469	594	654	680	611	306	25	13	9	40	46	31	13	0	0	0	0	3743
6	0	0	0	0	0	20	219	44	94	709	816	802	786	811	738	736	599	478	229	1	0	0	0	0	7082
7	0	0	0	0	0	26	127	421	586	683	640	509	536	139	7	2	3	6	5	19	0	0	0	0	3710
8	0	0	0	0	0	28	193	375	535	683	569	254	136	646	281	108	312	466	52	100	0	0	0	0	4738
9	0	0	0	0	0	21	230	87	449	654	674	526	354	401	553	2	7	28	150	30	0	0	0	0	4166
10	0	0	0	0	0	11	67	460	533	734	632	550	652	492	408	454	521	393	176	60	0	0	0	0	6143
11	0	0	0	0	0	10	64	161	55	175	158	151	98	119	23	68	143	118	54	21	0	0	0	0	1417
12	0	0	0	0	0	20	85	436	458	514	488	624	674	784	770	667	556	398	144	20	0	0	0	0	6640
13	0	0	0	0	0	40	271	615	720	816	861	837	735	628	475	647	569	404	181	30	0	0	0	0	7826
14	0	0	0	0	0	27	55	97	168	301	203	152	212	319	335	47	294	246	82	15	0	0	0	0	2553
15	0	0	0	0	0	6	33	44	51	325	397	417	457	435	244	467	383	257	68	4	0	0	0	0	3587
16	0	0	0	0	0	20	52	176	326	404	467	432	422	7	4	5	3	4	9	10	0	0	0	0	2340
17	0	0	0	0	0	19	58	348	535	597	610	556	507	367	262	436	250	4	0	0	0	0	0	0	4550
18	0	0	0	0	0	21	48	116	413	588	645	701	535	554	268	326	212	34	40	6	0	0	0	0	4507
19	0	0	0	0	0	17	147	427	593	663	715	536	296	94	157	156	182	80	49	11	0	0	0	0	4126
20	0	0	0	0	0	127	352	568	710	798	807	862	805	797	821	755	669	524	165	1	0	0	0	0	8761
21	0	0	0	0	0	18	242	458	468	428	553	755	743	886	868	733	735	580	261	7	0	0	0	0	7733
22	0	0	0	0	0	14	103	16	397	499	369	471	727	645	767	194	24	21	39	9	0	0	0	0	4296
23	0	0	0	0	0	11	193	428	451	531	594	560	456	625	291	188	320	454	140	13	0	0	0	0	5254
24	0	0	0	0	0	8	44	58	207	491	233	537	480	756	402	548	293	20	21	10	0	0	0	0	4109
25	0	0	0	0	0	7	40	43	503	209	317	243	4	3	6	19	47	47	30	7	0	0	0	0	1524
26	0	0	0	0	0	10	31	41	148	262	266	326	455	349	482	521	512	316	99	9	0	0	0	0	3828
27	0	0	0	0	0	17	66	201	331	304	346	283	497	496	491	527	443	235	28	3	0	0	0	0	4268
28	0	0	0	0	0	13	55	220	376	525	663	624	528	450	455	360	405	308	86	4	0	0	0	0	5073
29	0	0	0	0	0	9	69	313	510	645	679	731	790	577	343	516	551	212	10	0	0	0	0	0	5956
30	0	0	0	0	0	7	120	314	602	720	642	351	183	367	384	41	2	1	1	12	0	0	0	0	3746
31	0	0	0	0	0	2	7	15	15	10	12	21	16	17	13	6	19	8	1	0	0	0	0	0	164
Avg	0	0	0	0	0	20	117	267	408	523	534	502	465	423	371	333	310	227	87	14	0	0	0	0	4603
S D	0	0	0	0	0	21	86	177	194	193	208	218	233	265	258	266	230	184	72	19	0	0	0	0	1942
S/A	0	0	0	0	0	1.05	0.73	0.66	0.47	0.37	0.39	0.43	0.5	0.63	0.7	0.8	0.74	0.81	0.82	1.35	0	0	0	0	0.42
Min	0	0	0	0	0	2	7	15	15	10	12	21	4	3	4	2	2	1	0	0	0	0	0	0	164
Max	0	0	0	0	0	127	352	615	720	816	861	862	805	886	868	755	735	580	261	100	0	0	0	0	8761

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 32125 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 - July 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	7	84	161	192	263	380	367	385	107	315	224	67	130	51	7	0	0	0	0	2740
2	0	0	0	0	0	12	77	132	173	192	207	311	314	292	258	206	172	149	73	7	0	0	0	0	2573
3	0	0	0	0	0	8	83	161	231	287	255	259	366	395	323	259	201	144	72	7	0	0	0	0	3052
4	0	0	0	0	0	10	81	158	208	242	253	262	328	267	280	235	193	136	73	8	0	0	0	0	2734
5	0	0	0	0	0	10	68	113	148	190	242	330	433	189	69	147	169	108	36	5	0	0	0	0	2257
6	0	0	0	0	0	17	123	181	287	194	161	196	196	171	179	164	173	114	63	4	0	0	0	0	2223
7	0	0	0	0	0	11	102	134	199	177	210	291	308	174	45	9	12	16	8	1	0	0	0	0	1696
8	0	0	0	0	0	13	66	124	163	193	305	487	389	379	380	316	262	124	40	5	0	0	0	0	3245
9	0	0	0	0	0	9	79	175	169	209	252	348	409	257	261	28	29	145	132	12	0	0	0	0	2514
10	0	0	0	0	0	5	65	146	162	164	264	316	283	310	312	246	214	132	64	5	0	0	0	0	2688
11	0	0	0	0	0	5	77	177	238	414	442	476	410	353	195	362	271	173	63	7	0	0	0	0	3664
12	0	0	0	0	0	7	81	157	198	273	287	287	301	230	205	209	168	121	65	5	0	0	0	0	2594
13	0	0	0	0	0	8	54	90	95	118	131	180	237	335	296	240	196	118	64	8	0	0	0	0	2169
14	0	0	0	0	0	9	103	200	286	425	466	527	546	492	467	342	275	173	79	4	0	0	0	0	4394
15	0	0	0	0	0	1	52	130	199	409	448	481	458	436	382	311	239	161	71	1	0	0	0	0	3778
16	0	0	0	0	0	6	77	178	257	328	380	447	441	83	23	22	12	10	15	3	0	0	0	0	2281
17	0	0	0	0	0	5	81	155	213	247	306	358	404	415	293	267	150	19	0	?	0	0	0	0	2916
18	0	0	0	0	0	4	58	168	261	241	268	273	347	395	333	306	259	153	54	4	0	0	0	0	3123
19	0	0	0	0	0	6	68	118	153	189	208	256	339	326	310	262	264	207	79	6	0	0	0	0	2791
20	0	0	0	0	0	7	56	81	98	112	141	152	179	185	141	137	122	95	43	2	0	0	0	0	1550
21	0	0	0	0	0	7	55	91	172	189	221	189	202	127	113	132	89	79	55	4	0	0	0	0	1725
22	0	0	0	0	0	6	49	44	147	204	303	278	261	278	205	131	80	53	47	4	0	0	0	0	2090
23	0	0	0	0	0	3	59	128	199	245	281	356	377	356	372	322	231	171	76	3	0	0	0	0	3180
24	0	0	0	0	0	3	57	190	259	279	385	391	316	214	276	193	155	67	19	4	0	0	0	0	2806
25	0	0	0	0	0	1	44	120	206	283	407	305	31	33	37	83	161	136	44	2	0	0	0	0	1895
26	0	0	0	0	0	1	51	117	222	374	446	527	452	381	384	284	181	138	59	2	0	0	0	0	3620
27	0	0	0	0	0	4	72	180	242	310	441	426	378	389	339	261	206	159	38	2	0	0	0	0	3448
28	0	0	0	0	0	4	72	165	232	279	253	299	336	337	317	277	183	137	63	3	0	0	0	0	2957
29	0	0	0	0	0	2	60	139	186	212	228	220	223	260	284	204	172	132	20	0	0	0	0	0	2342
30	0	0	0	0	0	2	55	117	155	152	233	332	289	377	359	181	14	4	1	0	0	0	0	0	2272
31	0	0	0	0	0	1	9	32	47	40	57	105	84	85	61	26	57	22	4	0	0	0	0	0	631
Avg	0	0	0	0	0	6	68	138	193	240	286	324	323	278	252	206	160	114	51	4	0	0	0	0	2643
S D	0	0	0	0	0	4	20	40	54	88	102	107	109	116	116	97	79	53	28	3	0	0	0	0	742
S/A	0	0	0	0	0	0.63	0.3	0.29	0.28	0.37	0.36	0.33	0.34	0.42	0.46	0.47	0.49	0.47	0.55	0.7	0	0	0	0	0.28
Min	0	0	0	0	0	1	9	32	47	40	57	105	31	33	23	9	12	4	0	0	0	0	0	0	631
Max	0	0	0	0	0	17	123	200	287	425	466	527	546	492	467	362	275	207	132	12	0	0	0	0	4394

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 32125 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