

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - August 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	1	10	30	53	75	130	220	441	426	339	215	191	83	50	2	0	0	0	0	2267
2	0	0	0	0	0	4	95	289	508	793	737	814	500	494	606	548	463	268	84	2	0	0	0	0	6207
3	0	0	0	0	0	3	66	227	470	693	766	755	631	768	739	323	54	111	102	1	0	0	0	0	5711
4	0	0	0	0	0	3	96	263	424	585	704	589	708	327	785	743	44	154	65	2	0	0	0	0	5492
5	0	0	0	0	0	2	73	233	451	656	814	901	931	883	665	562	430	249	75	3	0	0	0	0	6928
6	0	0	0	0	0	3	75	239	468	663	819	920	950	829	795	651	452	198	20	0	0	0	0	0	7084
7	0	0	0	0	0	1	84	156	351	593	558	692	464	480	605	376	266	151	43	1	0	0	0	0	4819
8	0	0	0	0	0	1	78	253	430	684	832	945	930	945	830	686	487	266	72	1	0	0	0	0	7442
9	0	0	0	0	0	1	55	143	187	268	135	217	565	460	485	384	182	69	27	0	0	0	0	0	3177
10	0	0	0	0	0	1	45	79	89	97	243	406	405	418	407	313	245	135	43	0	0	0	0	0	2924
11	0	0	0	0	0	1	38	210	363	591	623	861	831	934	848	696	493	264	77	0	0	0	0	0	6831
12	0	0	0	0	0	2	71	202	443	686	840	941	977	937	839	682	483	262	69	0	0	0	0	0	7433
13	0	0	0	0	0	2	83	227	419	610	814	919	780	425	580	533	435	221	56	0	0	0	0	0	6103
14	0	0	0	0	0	2	67	247	455	654	810	913	809	908	709	613	434	205	30	0	0	0	0	0	6855
15	0	0	0	0	0	1	64	224	436	635	791	919	587	506	249	216	197	125	21	0	0	0	0	0	4971
16	0	0	0	0	0	1	67	242	466	646	736	637	838	600	251	20	5	4	2	0	0	0	0	0	4513
17	0	0	0	0	0	1	64	150	397	632	711	886	142	94	92	114	132	96	35	0	0	0	0	0	3545
18	0	0	0	0	0	1	66	252	465	666	823	926	895	907	740	637	360	119	11	0	0	0	0	0	6869
19	0	0	0	0	0	1	61	221	455	652	778	773	877	802	446	394	417	237	48	0	0	0	0	0	6161
20	0	0	0	0	0	1	54	174	406	627	744	740	860	716	697	620	425	173	26	0	0	0	0	0	6264
21	0	0	0	0	0	0	61	224	436	649	697	688	761	802	726	614	448	204	28	0	0	0	0	0	6340
22	0	0	0	0	0	0	63	255	478	681	839	951	818	965	846	693	417	238	59	0	0	0	0	0	7304
23	0	0	0	0	0	0	63	228	453	656	721	877	936	347	58	35	53	20	3	0	0	0	0	0	4451
24	0	0	0	0	0	0	51	262	384	593	724	421	404	874	788	559	367	198	39	0	0	0	0	0	5665
25	0	0	0	0	0	0	63	289	465	684	843	826	874	857	624	513	364	205	33	0	0	0	0	0	6641
26	0	0	0	0	0	0	53	232	446	646	804	906	866	942	643	629	416	192	31	0	0	0	0	0	6807
27	0	0	0	0	0	0	39	145	310	320	482	822	549	769	721	581	235	133	35	0	0	0	0	0	5142
28	0	0	0	0	0	0	45	210	419	615	762	855	888	859	653	493	244	143	14	0	0	0	0	0	6200
29	0	0	0	0	0	0	47	210	412	601	759	826	784	821	652	462	311	136	11	0	0	0	0	0	6031
30	0	0	0	0	0	0	41	181	379	577	736	819	855	826	576	265	21	3	3	0	0	0	0	0	5282
31	0	0	0	0	0	0	40	169	377	587	688	838	744	867	737	567	361	153	5	0	0	0	0	0	6133
Avg	0	0	0	0	0	1	61	209	397	585	692	768	729	703	604	475	304	162	39	0	0	0	0	0	5729
S D	0	0	0	0	0	1	18	56	104	162	190	199	203	232	213	199	153	75	26	1	0	0	0	0	1336
S/A	0	0	0	0	0	0.93	0.29	0.27	0.26	0.28	0.27	0.26	0.28	0.33	0.35	0.42	0.5	0.46	0.66	1.94	0	0	0	0	0.23
Min	0	0	0	0	0	0	10	30	53	75	130	217	142	94	58	20	5	3	2	0	0	0	0	0	2267
Max	0	0	0	0	0	4	96	289	508	793	843	951	977	965	848	743	493	268	102	3	0	0	0	0	7442

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4959 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 - August 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	4	7	10	14	15	24	36	55	50	40	42	47	32	33	4	0	0	0	0	415
2	0	0	0	0	0	21	255	572	730	797	539	480	184	180	263	354	501	423	175	8	0	0	0	0	5482
3	0	0	0	0	0	31	63	290	593	587	574	537	336	526	576	147	12	36	160	0	0	0	0	0	4468
4	0	0	0	0	0	7	224	446	356	335	491	205	365	63	641	695	8	170	109	7	0	0	0	0	4121
5	0	0	0	0	0	9	86	276	487	585	646	620	598	556	328	326	338	235	60	12	0	0	0	0	5161
6	0	0	0	0	0	11	66	178	439	563	627	636	611	360	517	469	415	148	17	11	0	0	0	0	5070
7	0	0	0	0	0	5	38	58	106	170	82	117	63	59	191	79	43	53	34	7	0	0	0	0	1105
8	0	0	0	0	0	6	140	346	417	704	711	781	676	779	731	737	654	466	156	7	0	0	0	0	7308
9	0	0	0	0	0	2	45	49	47	54	23	33	19	51	66	96	43	28	21	1	0	0	0	0	580
10	0	0	0	0	0	8	39	32	23	18	42	36	47	85	74	43	33	44	39	0	0	0	0	0	565
11	0	0	0	0	0	22	35	294	332	384	325	650	584	852	863	756	690	483	195	0	0	0	0	0	6465
12	0	0	0	0	0	7	167	352	665	838	866	894	901	880	863	827	749	567	214	34	0	0	0	0	8824
13	0	0	0	0	0	8	261	374	449	583	703	730	526	165	396	487	573	385	120	9	0	0	0	0	5765
14	0	0	0	0	0	9	95	363	521	645	719	761	583	653	524	511	458	269	31	0	0	0	0	0	6143
15	0	0	0	0	0	9	77	234	427	567	640	670	292	192	38	54	63	41	17	0	0	0	0	0	3321
16	0	0	0	0	0	6	127	351	624	629	571	391	529	355	105	2	1	1	0	0	0	0	0	0	3692
17	0	0	0	0	0	10	69	47	316	484	300	479	32	12	17	24	37	37	35	1	0	0	0	0	1899
18	0	0	0	0	0	16	135	463	655	776	832	840	731	773	615	519	387	104	8	6	0	0	0	0	6861
19	0	0	0	0	0	14	92	339	569	669	584	390	630	504	219	253	453	266	50	0	0	0	0	0	5033
20	0	0	0	0	0	4	54	144	388	539	532	464	596	445	539	624	513	206	23	0	0	0	0	0	5070
21	0	0	0	0	0	3	142	200	487	624	360	176	459	594	569	602	595	255	31	25	0	0	0	0	5122
22	0	0	0	0	0	4	146	493	686	774	829	861	580	765	635	574	376	253	73	25	0	0	0	0	7074
23	0	0	0	0	0	2	103	342	561	561	402	538	578	77	10	8	13	8	2	0	0	0	0	0	3203
24	0	0	0	0	0	1	70	348	161	429	490	55	61	490	632	449	394	289	61	0	0	0	0	0	3931
25	0	0	0	0	0	5	185	853	713	834	878	710	681	700	490	485	464	335	60	0	0	0	0	0	7395
26	0	0	0	0	0	0	114	411	592	703	767	792	682	774	456	640	567	331	57	0	0	0	0	0	6884
27	0	0	0	0	0	0	43	65	134	36	89	467	155	420	480	323	60	68	42	0	0	0	0	0	2383
28	0	0	0	0	0	4	43	261	456	556	611	623	635	603	415	243	55	55	13	0	0	0	0	0	4571
29	0	0	0	0	0	0	54	269	457	563	629	603	496	536	362	251	215	101	10	0	0	0	0	0	4546
30	0	0	0	0	0	2	30	131	300	444	513	484	521	499	313	95	2	1	9	0	0	0	0	0	3343
31	0	0	0	0	0	0	28	96	299	448	363	404	375	579	574	512	384	173	8	0	0	0	0	0	4241

Avg	0	0	0	0	0	7	98	280	419	513	508	499	438	438	405	362	295	189	60	5	0	0	0	0	4517
S/D	0	0	0	0	0	7	66	181	205	235	250	258	244	271	246	252	245	159	60	8	0	0	0	0	2122
S/A	0	0	0	0	0	0.95	0.67	0.64	0.49	0.46	0.49	0.52	0.56	0.62	0.61	0.7	0.83	0.84	1	1.67	0	0	0	0	0.47
Min	0	0	0	0	0	0	7	10	14	15	23	33	19	12	10	2	1	1	1	0	0	0	0	0	415
Max	0	0	0	0	0	31	261	853	730	838	878	894	901	880	863	827	749	567	214	34	0	0	0	0	8824

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 37084 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 - August 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	1	8	26	45	64	109	186	388	380	304	184	164	72	44	2	0	0	0	0	1976
2	0	0	0	0	0	4	43	74	94	210	272	363	322	322	383	296	179	105	48	2	0	0	0	0	2717
3	0	0	0	0	0	3	57	112	132	257	270	253	306	276	239	214	47	98	70	1	0	0	0	0	2333
4	0	0	0	0	0	3	53	102	228	345	285	396	355	267	236	232	35	122 ?	42	1	0	0	0	0	2703
5	0	0	0	0	0	2	57	128	177	231	261	320	354	362	384	325	239	159	63	3	0	0	0	0	3066
6	0	0	0	0	0	2	63	173	219	254	284	325	362	492	353	309	217	137	17	0	0	0	0	0	3209
7	0	0	0	0	0	1	77	135	293	469	489	582	404	424	445	317	242	131	37	1	0	0	0	0	4049
8	0	0	0	0	0	1	52	128	195	174	228	216	280	220	208	153	121	95	41	1	0	0	0	0	2114
9	0	0	0	0	0	1	47	126	161	230	115	186	546	412	428	312	158	59	23	0	0	0	0	0	2805
10	0	0	0	0	0	1	39	68	76	84	207	373	359	340	343	283	226	118	36	0	0	0	0	0	2552
11	0	0	0	0	0	1	32	101	184	312	343	256	273	143	117	153	112	92	42	1	0	0	0	0	2162
12	0	0	0	0	0	1	43	75	72	85	107	112	117	121	110	89	72	59	30	0	0	0	0	0	1093
13	0	0	0	0	0	1	42	95	166	196	219	242	279	272	252	186	124	84	34	0	0	0	0	0	2193
14	0	0	0	0	0	2	50	116	169	192	203	209	254	304	267	244	184	108	23	0	0	0	0	0	2324
15	0	0	0	0	0	1	51	140	201	230	252	300	309	328	218	176	166	111	18	0	0	0	0	0	2502
16	0	0	0	0	0	1	45	113	125	199	256	275	336	272	160	18	4	4	1	0	0	0	0	0	1811
17	0	0	0	0	0	1	53	134	219	290	459	446	112	83	78	97	113	84	30	0	0	0	0	0	2199
18	0	0	0	0	0	1	43	89	110	116	126	155	204	200	226	271	151	79	10	0	0	0	0	0	1780
19	0	0	0	0	0	1	46	102	147	178	292	414	282	341	259	224	179	144	41	0	0	0	0	0	2649
20	0	0	0	0	0	1	46	124	195	246	302	316	300	310	252	188	153	96	23	0	0	0	0	0	2551
21	0	0	0	0	0	0	38	160	167	214	394	528	329	260	256	200	136	120	23	0	0	0	0	0	2825
22	0	0	0	0	0	0	40	86	112	137	150	166	274	271	324	296	213	155	47	0	0	0	0	0	2270
23	0	0	0	0	0	0	47	112	156	265	390	387	395	276	50	30	47	17	2	0	0	0	0	0	2176
24	0	0	0	0	0	0	39	142	304	281	326	371	347	434	272	248	168	105	30	0	0	0	0	0	3066
25	0	0	0	0	0	0	36	74	86	102	117	185	239	225	225	185	128	98	23	0	0	0	0	0	1725
26	0	0	0	0	0	0	34	94	133	157	172	190	233	247	274	196	129	87	24	0	0	0	0	0	1970
27	0	0	0	0	0	0	34	123	240	296	410	398	405	398	334	360	205	112	32	0	0	0	0	0	3346
28	0	0	0	0	0	0	38	121	179	230	261	294	301	321	317	328	216	126	12	0	0	0	0	0	2745
29	0	0	0	0	0	0	39	119	173	212	244	285	327	342	358	290	202	102	9	0	0	0	0	0	2703
30	0	0	0	0	0	0	38	136	222	271	316	385	375	383	330	198	9 ?	3	3	0	0	0	0	0	2669
31	0	0	0	0	0	0	37	137	219	278	393	479	401	354	280	228	172	99	5	0	0	0	0	0	3083
Avg	0	0	0	0	0	1	44	112	168	220	266	309	315	303	267	220	146	96	29	0	0	0	0	0	2496
S D	0	0	0	0	0	1	11	29	60	83	101	113	84	90	94	84	65	37	17	1	0	0	0	0	563
S/A	0	0	0	0	0	0.93	0.26	0.26	0.36	0.38	0.38	0.36	0.27	0.3	0.35	0.38	0.45	0.39	0.59	1.79	0	0	0	0	0.23
Min	0	0	0	0	0	0	8	26	45	64	107	112	112	83	50	18	4	3	1	0	0	0	0	0	1093
Max	0	0	0	0	0	4	77	173	304	469	489	582	546	492	445	360	242	159	70	3	0	0	0	0	4049

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4959 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