

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - March 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	0	1	81	198	477	651	777	811	768	645	466	235	68	3	0	0	0	0	0	5181
2	0	0	0	0	0	0	1	82	276	487	660	778	823	790	688	531	329	112	2	0	0	0	0	0	5558
3	0	0	0	0	0	0	1	86	269	455	656	784	786	721	666	493	330	104	4	0	0	0	0	0	5356
4	0	0	0	0	0	0	0	12	133	408	597	695	846	549	498	464	273	62	6	0	0	0	0	0	4542
5	0	0	0	0	0	0	2	68	264	469	643	766	810	765	674	513	318	109	3	0	0	0	0	0	5404
6	0	0	0	0	0	0	2	66	309 ?	460	659	778	811	778	676	521	323	113	4	0	0	0	0	0	5499
7	0	0	0	0	0	0	2	94	382 ?	453	661	776	824	794	694	532	335	117	3	0	0	0	0	0	5666
8	0	0	0	0	0	0	3	75 ?	274	451	679	785	817	789	698	539	340	121	5	0	0	0	0	0	5577
9	0	0	0	0	0	0	3	96	286	480	653	776	822	787	689	525	324	118	6	0	0	0	0	0	5566
10	0	0	0	0	0	0	4	94	234	289	187	320	665	580	536	455	317	116	5	0	0	0	0	0	3803
11	0	0	0	0	0	0	3	85	230	505	668	777	820	800	674	368	196	67	2	0	0	0	0	0	5194
12	0	0	0	0	0	0	6	127	358	574	741	853	896	865	762	592	380	143	8	0	0	0	0	0	6305
13	0	0	0	0	0	0	6	131	356	565	727	838	850	833	731	485	322	137	10	0	0	0	0	0	5992
14	0	0	0	0	0	0	6	105	355	567	735	847	885	841	736	564	352	135	8	0	0	0	0	0	6136
15	0	0	0	0	0	0	6	110	348	567	729	832	864	844	727	558	349	124	7	0	0	0	0	0	6065
16	0	0	0	0	0	0	4	73	137	247	498	225	247	445	325	191	118	4	0	0	0	0	0	0	2515
17	0	0	0	0	0	0	4	83	240	433	486	601	790	776	631	470	330	142	9	0	0	0	0	0	4994
18	0	0	0	0	0	0	2	20	75	146	171	188	174	140	94	75	75	31	4	0	0	0	0	0	1194
19	0	0	0	0	0	0	4	29	79	166	155	195	340	345	285	128	66	22	6	0	0	0	0	0	1820
20	0	0	0	0	0	0	1	62	83	296	707	715	803	873	757	596	391	153	11	0	0	0	0	0	5447
21	0	0	0	0	0	0	14	102	372	576	760	862	899	859	748	579	308	102	10	0	0	0	0	0	6191
22	0	0	0	0	0	0	14	136	366	582	748	838	877	849	759	576	306	127	12	0	0	0	0	0	6189
23	0	0	0	0	0	0	3	33	82	111	130	170	210	255	247	284	353	147	12	0	0	0	0	0	2038
24	0	0	0	0	0	0	16	102 ?	392	607	778	886	920	883	776	609	396	160	11	0	0	0	0	0	6537
25	0	0	0	0	0	0	18	200 ?	362	577	759	854	885	818	732	509	291	144	22	0	0	0	0	0	6170
26	0	0	0	0	0	0	11	94	299	527	649	744	753	470	514	471	229	82	7	0	0	0	0	0	4850
27	0	0	0	0	0	0	18	93	333	315	192	221	293	361	344	172	46	21	34	0	0	0	0	0	2442
28	0	0	0	0	0	0	24	197	438	641	804	910	943	902	792	622	413	176	17	0	0	0	0	0	6879
29	0	0	0	0	0	0	25	184	410	602	761	860	886	849	726	587	382	143	18	0	0	0	0	0	6432
30	0	0	0	0	0	0	1	8	12	11	61	78	83	115	364	243	96	115	7	0	0	0	0	0	1195
31	0	0	0	0	0	0	16	84	233	285	557	459	601	827	737	521	348	165	19	0	0	0	0	0	4851
Avg	0	0	0	0	0	0	7	91	264	430	576	651	711	686	610	459	286	109	9	0	0	0	0	0	4890
S D	0	0	0	0	0	0	7	46	113	162	222	260	250	227	182	148	102	44	7	0	0	0	0	0	1620
S/A	0	0	0	0	0	0	0.99	0.51	0.43	0.38	0.38	0.4	0.35	0.33	0.3	0.32	0.36	0.4	0.8	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	0	8	12	11	61	78	83	115	94	75	46	4	0	0	0	0	0	0	1194
Max	0	0	0	0	0	0	25	200	438	641	804	910	943	902	792	622	413	176	34	0	0	0	0	0	6879

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 4453 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 - March 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	0	3	121	202	764	901	943	941	887	784	623	286	59	7	0	0	0	0	0	6521
2	0	0	0	0	0	0	1	271	609	789	885	936	950	931	883	826	706	401	10	0	0	0	0	0	8197
3	0	0	0	0	0	0	20	248	400	651	843	837	699	643	804	692	621	308	10	0	0	0	0	0	6775
4	0	0	0	0	0	0	0	4	36	418	641	673	837	379	377	584	351	52	11	0	0	0	0	0	4363
5	0	0	0	0	0	0	9	141	509	703	807	869	882	834	796	734	610	333	8	0	0	0	0	0	7234
6	0	0	0	0	0	0	6	152	796	717	860	911	901	886	844	773	648	357	12	0	0	0	0	0	7865
7	0	0	0	0	0	0	58	256	1098	702	856	889	903	895	866	799	688	378	5	0	0	0	0	0	8394
8	0	0	0	0	0	0	26	1219	586	677	873	906	909	903	886	833	717	425	28	0	0	0	0	0	8988
9	0	0	0	0	0	0	16	272	511	630	746	837	848	840	811	737	592	313	16	0	0	0	0	0	7170
10	0	0	0	0	0	0	9	162	243	52	25	54	288	102	314	508	522	270	19	0	0	0	0	0	2568
11	0	0	0	0	0	0	28	166	248	694	772	804	832	818	758	230	37	28	1	0	0	0	0	0	5414
12	0	0	0	0	0	0	31	449	773	905	957	989	997	991	967	906	791	492	43	0	0	0	0	0	9295
13	0	0	0	0	0	0	38	484	759	872	921	947	846	888	851	539	439	313	33	0	0	0	0	0	7931
14	0	0	0	0	0	0	25	275	750	881	928	962	967	936	865	800	656	390	29	0	0	0	0	0	8465
15	0	0	0	0	0	0	28	264	711	856	886	903	877	932	886	793	627	298	17	0	0	0	0	0	8077
16	0	0	0	0	0	0	25	38	36	37	156	18	23	45	37	26	24	1	1	0	0	0	0	0	466
17	0	0	0	0	0	0	6	34	116	272	226	313	679	664	530	420	489	384	70	0	0	0	0	0	4204
18	0	0	0	0	0	0	5	8	13	18	18	17	15	12	9	10	13	11	24	0	0	0	0	0	172
19	0	0	0	0	0	0	11	12	16	24	18	19	40	37	28	16	11	8	23	0	0	0	0	0	261
20	0	0	0	0	0	0	3	27	14	90	778	611	680	924	926	878	780	494	66	0	0	0	0	0	6270
21	0	0	0	0	0	0	70	243	733	841	918	933	934	929	883	811	462	222	36	0	0	0	0	0	8017
22	0	0	0	0	0	0	44	296	654	781	840	846	853	865	839	751	452	279	47	0	0	0	0	0	7546
23	0	0	0	0	0	0	16	14	18	17	17	19	23	29	33	76	485	326	34	0	0	0	0	0	1106
24	0	0	0	0	0	0	61	977	773	869	938	973	981	972	941	882	766	469	64	0	0	0	0	0	9665
25	0	0	0	0	0	0	41	695	533	793	888	889	869	738	736	468	188	233	102	0	0	0	0	0	7174
26	0	0	0	0	0	0	20	39	268	420	523	584	452	79	155	311	106	34	8	0	0	0	0	0	2998
27	0	0	0	0	0	0	26	46	207	84	23	27	31	98	75	28	7	11	46	0	0	0	0	0	710
28	0	0	0	0	0	0	139	592	840	922	969	990	991	975	940	877	773	503	74	0	0	0	0	0	9584
29	0	0	0	0	0	0	97	471	716	790	842	880	868	838	759	745	631	284	35	0	0	0	0	0	7956
30	0	0	0	0	0	0	1	2	2	1	7	8	7	13	75	41	21	62	6	0	0	0	0	0	246
31	0	0	0	0	0	0	34	36	86	43	150	90	335	598	481	367	346	328	40	0	0	0	0	0	2932

Avg	0	0	0	0	0	0	29	259	428	526	620	635	660	635	617	551	447	260	30	0	0	0	0	0	5696
S D	0	0	0	0	0	0	30	287	320	340	364	381	355	365	338	306	267	163	24	0	0	0	0	0	3141
S/A	0	0	0	0	0	0	1.04	1.11	0.75	0.65	0.59	0.6	0.54	0.58	0.55	0.56	0.6	0.63	0.82	0	0	0	0	0	0.55
Min	0	0	0	0	0	0	0	2	2	1	7	8	7	12	9	10	7	1	1	0	0	0	0	0	172
Max	0	0	0	0	0	0	139	1219	1098	922	969	990	997	991	967	906	791	503	102	0	0	0	0	0	9665

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4453 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 - March 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	0	1	64	128	92	74	90	92	108	121	127	123	56	2	0	0	0	0	0	1077
2	0	0	0	0	0	0	1	40	72	87	90	91	93	95	96	82	63	35	2	0	0	0	0	0	846
3	0	0	0	0	0	0	1	48	132	125	109	167	246	241	125	118	94	43	3	0	0	0	0	0	1451
4	0	0	0	0	0	0	0	11	120	192	182	191	196	262	242	139	130	53	5	0	0	0	0	0	1725
5	0	0	0	0	0	0	1	46	87	102	112	117	120	131	133	107	82	42	2	0	0	0	0	0	1083
6	0	0	0	0	0	0	2	42	73	82	90	93	103	102	98	91	70	40	3	0	0	0	0	0	887
7	0	0	0	0	0	0	2	45	73	81	90	104	111	108	98	84	64	38	3	0	0	0	0	0	900
8	0	0	0	0	0	0	2	40	71	86	93	97	95	93	85	70	57	34	4	0	0	0	0	0	827
9	0	0	0	0	0	0	3	49	100	140	149	136	145	136	124	107	87	51	5	0	0	0	0	0	1232
10	0	0	0	0	0	0	4	63	150	261	171	278	434	500	323	169	107	57	5	0	0	0	0	0	2521
11	0	0	0	0	0	0	2	53	132	125	140	155	150	160	141	229	181	61	2	0	0	0	0	0	1530
12	0	0	0	0	0	0	5	42	65	75	81	85	88	85	78	69	57	37	5	0	0	0	0	0	773
13	0	0	0	0	0	0	4	41	66	80	89	98	161	131	127	168	139	73	8	0	0	0	0	0	1184
14	0	0	0	0	0	0	5	45	64	73	88	91	94	99	120	97	80	48	5	0	0	0	0	0	909
15	0	0	0	0	0	0	6	50	68	84	106	119	143	101	92	93	86	55	6	0	0	0	0	0	1008
16	0	0	0	0	0	0	4	65	123	226	385	211	228	409	298	176	107	4	0	0	0	0	0	0	2237
17	0	0	0	0	0	0	4	76	192	277	325	352	226	241	248	220	127	53	6	0	0	0	0	0	2345
18	0	0	0	0	0	0	2	19	69	135	159	174	162	130	87	70	69	28	4	0	0	0	0	0	1108
19	0	0	0	0	0	0	4	27	73	152	142	180	307	315	264	119	61	20	6	0	0	0	0	0	1669
20	0	0	0	0	0	0	1	56	77	240	144	221	231	120	78	68	56	36	6	0	0	0	0	0	1334
21	0	0	0	0	0	0	9	44	63	77	91	102	109	98	98	89	105	50	7	0	0	0	0	0	944
22	0	0	0	0	0	0	12	64	88	116	132	147	154	138	138	119	102	63	8	0	0	0	0	0	1280
23	0	0	0	0	0	0	3	30	74	101	118	155	190	231	223	239	146	66	10	0	0	0	0	0	1586
24	0	0	0	0	0	0	13	54	69	80	84	83	81	79	74	69	58	43	7	0	0	0	0	0	793
25	0	0	0	0	0	0	15	98	123	90	98	116	138	205	180	216	208	89	19	0	0	0	0	0	1595
26	0	0	0	0	0	0	10	85	173	273	261	256	363	403	396	284	177	74	6	0	0	0	0	0	2762
27	0	0	0	0	0	0	16	83	238	263	175	198	266	278	289	154	42	19	29	?	0	0	0	0	2049
28	0	0	0	0	0	0	11	46	60	67	71	77	81	83	81	75	65	46	10	0	0	0	0	0	773
29	0	0	0	0	0	0	15	60	85	106	120	117	129	142	151	121	95	67	15	0	0	0	0	0	1223
30	0	0	0	0	0	0	1	8	11	10	56	71	77	105	308	217	86	96	7	0	0	0	0	0	1053
31	0	0	0	0	0	0	14	75	190	258	442	384	306	320	365	289	201	77	15	0	0	0	0	0	2936
Avg	0	0	0	0	0	0	6	51	100	134	144	153	172	182	170	138	101	50	7	0	0	0	0	0	1408
S/D	0	0	0	0	0	0	5	20	48	73	90	77	89	109	94	65	44	20	6	0	0	0	0	0	601
S/A	0	0	0	0	0	0	0.89	0.4	0.48	0.55	0.62	0.5	0.52	0.6	0.55	0.47	0.44	0.4	0.83	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	8	11	10	56	71	77	79	74	68	42	4	0	0	0	0	0	0	773
Max	0	0	0	0	0	0	16	98	238	277	442	384	434	500	396	289	208	96	29	0	0	0	0	0	2936

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4453 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