

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 1999**

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	0	4	21	61	144	99	85	60	59	27	49	12	0	0	0	0	0	0	620
2	0	0	0	0	0	0	0	6	38	130	189	251	369	167	190	171	110	25	0	0	0	0	0	0	1645
3	0	0	0	0	0	0	0	17	130	164	210	346	505	539	518	429	174	45	0	0	0	0	0	0	3077
4	0	0	0	0	0	0	0	8	67	274	376	121	390	588	566	427	232	54	0	0	0	0	0	0	3103
5	0	0	0	0	0	0	0	30	202	406	573	683	729	700	575	454	252	56	0	0	0	0	0	0	4659
6	0	0	0	0	0	0	0	26 ?	192 ?	363	551	669	713	683	587	437	238	51	0	0	0	0	0	0	4509
7	0	0	0	0	0	0	0	28	179	376	537	650	694	666	571	428	232	54	0	0	0	0	0	0	4416
8	0	0	0	0	0	0	0	33	205	384	551	667	710	683	569	436	240	47	0	0	0	0	0	0	4525
9	0	0	0	0	0	0	0	25	125	328	486	515	574	537	429	257	157	42	0	0	0	0	0	0	3476
10	0	0	0	0	0	0	0	21	157	274	338	269	504	545	507	350	107	42	0	0	0	0	0	0	3113
11	0	0	0	0	0	0	0	27	137	320	531	630	690	617	554	417	238	61	0	0	0	0	0	0	4223
12	0	0	0	0	0	0	0	20	87	196	311	464	525	474	360	373	181	28	0	0	0	0	0	0	3016
13	0	0	0	0	0	0	0	40	235	449	614	728	773	744	641	486	283	78	0	0	0	0	0	0	5072
14	0	0	0	0	0	0	0	52	256	437	611	729	708	716	646	490	286	76	0	0	0	0	0	0	5007
15	0	0	0	0	0	0	0	28 ?	302 ?	442	611	725	768	740	640	480	277	70	0	0	0	0	0	0	5083
16	0	0	0	0	0	0	0	50	214	419	570	694	741	725	620	459	259	66	1	0	0	0	0	0	4817
17	0	0	0	0	0	0	0	45	228	409	519	608	712	674	463	267	135	21	0	0	0	0	0	0	4081
18	0	0	0	0	0	0	0	13	100	361	512	420	541	468	102	43	102	22	0	0	0	0	0	0	2683
19	0	0	0	0	0	0	0	54	231	418	511	329	404	620	495	479	254	96	1	0	0	0	0	0	3892
20	0	0	0	0	0	0	0	35	107	298	617	726	765	734	626	464	227	70	1	0	0	0	0	0	4669
21	0	0	0	0	0	0	0	7	98	265	433	496	262	514	295	431	144	59	0	0	0	0	0	0	3004
22	0	0	0	0	0	0	0	64	274	494	664	781	826	772	684	534	311	101	1	0	0	0	0	0	5506
23	0	0	0	0	0	0	0	27	126	243	305	356	383	289	323	178	166	41	1	0	0	0	0	0	2439
24	0	0	0	0	0	0	0	51	114	192	279	313	554	664	660	502	290	88	1	0	0	0	0	0	3708
25	0	0	0	0	0	0	0	62	232	432	619	745	790	768	667	505	297	95	1	0	0	0	0	0	5213
26	0	0	0	0	0	0	0	62	255	469	639	752	798	773	671	508	298	99	1	0	0	0	0	0	5325
27	0	0	0	0	0	0	0	60	202	438	586	674	733	536	467	304	136	38	1	0	0	0	0	0	4175
28	0	0	0	0	0	0	0	3	53	78	255	245	648	725	607	337	279	76	4	0	0	0	0	0	3309
Avg	0	0	0	0	0	0	0	32	163	326	469	524	603	597	503	381	213	58	0	0	0	0	0	0	3870
S/D	0	0	0	0	0	0	0	19	75	119	152	207	182	175	169	135	71	25	1	0	0	0	0	0	1151
S/A	0	0	0	0	0	0	2.94	0.59	0.46	0.37	0.32	0.4	0.3	0.29	0.34	0.35	0.34	0.43	1.63	0	0	0	0	0	0.3
Min	0	0	0	0	0	0	0	3	21	61	144	99	85	60	59	27	49	12	0	0	0	0	0	0	620
Max	0	0	0	0	0	0	0	64	302	494	664	781	826	773	684	534	311	101	4	0	0	0	0	0	5506

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3709 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
 Note: Instrument was changed during month.

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 1999**

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	0	3	4	6	13	7	5	4	4	2	10	4	0	0	0	0	0	0	63
2	0	0	0	0	0	0	0	3	8	16	18	25	37	13	18	23	26	15	0	0	0	0	0	0	201
3	0	0	0	0	0	0	0	12	86	24	25	64	265	461	591	414	242	52	0	0	0	0	0	0	2235
4	0	0	0	0	0	0	0	9	19	289	249	19	122	637	846	807	637	266	0	0	0	0	0	0	3901
5	0	0	0	0	0	0	0	213	680	875	959	998	1018	1011	913	918	758	333	0	0	0	0	0	0	8675
6	0	0	0	0	0	0	0	464	703	748	904	956	975	962	927	860	671	250	7	0	0	0	0	0	8428
7	0	0	0	0	0	0	0	128	514	740	838	890	907	890	850	784	589	221	8	0	0	0	0	0	7358
8	0	0	0	0	0	0	0	121	559	741	862	924	937	923	834	809	629	186	23	0	0	0	0	0	7549
9	0	0	0	0	0	0	0	23	11	279	348	284	361	352	284	56	45	17	0	0	0	0	0	0	2060
10	0	0	0	0	0	0	0	17	51	89	171	30	343	306	325	367	64	22	0	0	0	0	0	0	1786
11	0	0	0	0	0	0	0	98	184	458	698	726	775	715	726	672	534	202	0	0	0	0	0	0	5788
12	0	0	0	0	0	0	0	37	29	39	68	274	264	251	197	417	126	13	1	0	0	0	0	0	1715
13	0	0	0	0	0	0	0	224	729	906	968	1005	1016	1001	957	894	740	347	2	0	0	0	0	0	8789
14	0	0	0	0	0	0	0	216	649	740	903	954	763	904	966	903	751	369	169	0	0	0	0	0	8286
15	0	0	0	0	0	0	0	572	925	880	959	999	1007	994	950	799	560	220	2	0	0	0	0	0	8867
16	0	0	0	0	0	0	0	230	547	755	822	892	901	908	840	741	556	126	2	0	0	0	0	0	7319
17	0	0	0	0	0	0	0	167	558	663	461	573	781	753	178	77	19	4	2	0	0	0	0	0	4237
18	0	0	0	0	0	0	0	8	40	437	621	233	287	235	5	5	23	11	3	0	0	0	0	0	1908
19	0	0	0	0	0	0	0	192	422	688	613	62	212	589	513	690	380	219	1	0	0	0	0	0	4580
20	0	0	0	0	0	0	0	29	32	164	803	901	909	883	794	589	323	165	2	0	0	0	0	0	5594
21	0	0	0	0	0	0	0	4	48	112	232	348	43	367	130	442	143	74	0	0	0	0	0	0	1943
22	0	0	0	0	0	0	0	328	753	916	979	1017	1019	930	946	917	731	393	0	0	0	0	0	0	8929
23	0	0	0	0	0	0	0	21	41	49	45	35	55	32	41	28	71	21	2	0	0	0	0	0	441
24	0	0	0	0	0	0	0	130	45	31	43	51	68	428	842	773	590	263	8	0	0	0	0	0	3272
25	0	0	0	0	0	0	0	213	444	651	831	905	924	922	878	782	610	317	15	0	0	0	0	0	7492
26	0	0	0	0	0	0	0	146	568	777	865	909	932	932	888	798	579	275	2	0	0	0	0	0	7672
27	0	0	0	0	0	0	9	29	205	572	637	655	705	240	209	153	31	17	2	0	0	0	0	0	3464
28	0	0	0	0	0	0	0	3	11	11	37	47	397	714	714	370	402	193	12	0	0	0	0	0	2911
Avg	0	0	0	0	0	0	0	130	317	452	535	528	572	620	584	539	387	164	9	0	0	0	0	0	4838
S D	0	0	0	0	0	0	2	142	299	335	364	405	375	332	352	326	274	128	31	0	0	0	0	0	2976
S/A	0	0	0	0	0	0	5.2	1.09	0.95	0.74	0.68	0.77	0.66	0.54	0.6	0.61	0.71	0.78	3.31	0	0	0	0	0	0.62
Min	0	0	0	0	0	0	0	3	4	6	13	7	5	4	4	2	10	4	0	0	0	0	0	0	63
Max	0	0	0	0	0	0	9	572	925	916	979	1017	1019	1011	966	918	758	393	169	0	0	0	0	0	8929

Daylight Data Recovery: 2% missing; 0% exceed the 15% QC threshold -- 114254 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 - February 1999

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	0	4	20	59	138	94	81	57	57	26	46	11	0	0	0	0	0	0	594
2	0	0	0	0	0	0	0	5	36	124	180	235	345	159	180	161	103	23	0	0	0	0	0	0	1551
3	0	0	0	0	0	0	0	16	107	154	197	306	331	246	183	243	101	44	0	0	0	0	0	0	1927
4	0	0	0	0	0	0	0	8	63	148	247	108	310	184	87	69	50	19	0	0	0	0	0	0	1293
5	0	0	0	0	0	0	0	11	38	49	53	55	53	50	55	43	34	12	0	0	0	0	0	0	451
6	0	0	0	0	0	0	0	16	52	53	58	63	62	60	55	49	41	17	0	0	0	0	0	0	526
7	0	0	0	0	0	0	0	17	52	69	77	83	84	86	80	71	57	23	0	0	0	0	0	0	699
8	0	0	0	0	0	0	0	22	65	73	74	75	78	77	84	65	49	20	0	0	0	0	0	0	682
9	0	0	0	0	0	0	0	25	123	202	298	328	328	303	262	229	144	40	0	0	0	0	0	0	2284
10	0	0	0	0	0	0	0	20	144	233	248	249	268	338	321	180	85	40	0	0	0	0	0	0	2127
11	0	0	0	0	0	0	0	23	87	122	138	156	157	138	123	101	71	31	0	0	0	0	0	0	1146
12	0	0	0	0	0	0	0	18	79	179	271	288	342	303	245	169	144	26	0	0	0	0	0	0	2065
13	0	0	0	0	0	0	0	14	41	54	60	64	66	67	65	58	48	25	0	0	0	0	0	0	564
14	0	0	0	0	0	0	0	30	82	110	90	95	174	103	61	54	45	19	0	0	0	0	0	0	862
15	0	0	0	0	0	0	0	22	51	51	55	57	58	60	60	91	97	32	0	0	0	0	0	0	634
16	0	0	0	0	0	0	0	22	62	82	90	94	102	100	103	95	75	45	1	0	0	0	0	0	871
17	0	0	0	0	0	0	0	26	71	111	250	219	154	150	353	226	129	20	0	0	0	0	0	0	1710
18	0	0	0	0	0	0	0	13	87	153	149	262	335	301	99	41	94	20	0	0	0	0	0	0	1555
19	0	0	0	0	0	0	0	29	112	96	156	287	251	205	181	129	126	62	1	0	0	0	0	0	1636
20	0	0	0	0	0	0	0	32	98	216	133	104	105	110	125	160	115	45	1	0	0	0	0	0	1243
21	0	0	0	0	0	0	0	6	81	217	289	255	231	253	212	210	101	43	0	0	0	0	0	0	1899
22	0	0	0	0	0	0	0	21	48	62	68	71	77	108	81	64	57	34	1	0	0	0	0	0	693
23	0	0	0	0	0	0	0	25	114	220	278	332	343	266	297	163	143	38	1	0	0	0	0	0	2219
24	0	0	0	0	0	0	0	32	102	178	253	276	504	358	115	100	77	41	1	0	0	0	0	0	2036
25	0	0	0	0	0	0	0	34	95	115	102	100	100	98	96	93	76	37	1	0	0	0	0	0	948
26	0	0	0	0	0	0	0	40	74	89	96	101	98	92	90	86	88	46	1	0	0	0	0	0	901
27	0	0	0	0	0	0	0	57	129	154	184	203	200	360	330	218	124	35	1	0	0	0	0	0	1996
28	0	0	0	0	0	0	0	3	49	73	232	210	346	197	127	143	128	44	3	0	0	0	0	0	1555
Avg	0	0	0	0	0	0	0	21	77	123	159	170	199	173	147	119	87	32	0	0	0	0	0	0	1309
S D	0	0	0	0	0	0	0	12	31	58	81	95	124	101	92	65	34	12	1	0	0	0	0	0	596
S/A	0	0	0	0	0	0	2.97	0.55	0.4	0.47	0.51	0.55	0.62	0.58	0.62	0.54	0.39	0.38	1.56	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	3	20	49	53	55	53	50	55	26	34	11	0	0	0	0	0	0	451
Max	0	0	0	0	0	0	0	57	144	233	298	332	504	360	353	243	144	62	3	0	0	0	0	0	2284

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3709 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
Note: Instrument was changed during month.