

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - December 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	0	0	43	208	388	529	612	626	571	449	267	92	1	0	0	0	0	0	0	3786
2	0	0	0	0	0	0	0	40	208	391	531	611	620	551	439	271	92	2	0	0	0	0	0	0	3755
3	0	0	0	0	0	0	0	26	112	243	427	248	105	115	55	80	45	1	0	0	0	0	0	0	1458
4	0	0	0	0	0	0	0	9	54	61	64	97	42	59	50	48	27	2	0	0	0	0	0	0	515
5	0	0	0	0	0	0	0	25	236	424	545	654	658	563	478	300	106	2	0	0	0	0	0	0	3991
6	0	0	0	0	0	0	0	38	202	392	539	631	648	593	474	297	105	2	0	0	0	0	0	0	3920
7	0	0	0	0	0	0	0	37	204	395	544	633	652	595	417	313	78	0	0	0	0	0	0	0	3868
8	0	0	0	0	0	0	0	39	124	216	230	372	202	129	126	74	18	0	0	0	0	0	0	0	1529
9	0	0	0	0	0	0	0	10	49	111	249	240	208	180	133	60	32	1	0	0	0	0	0	0	1273
10	0	0	0	0	0	0	0	19	150	258	164	231	463	531	423	279	102	1	0	0	0	0	0	0	2622
11	0	0	0	0	0	0	0	25	91	182	201	511	555	478	383	195	65	1	0	0	0	0	0	0	2686
12	0	0	0	0	0	0	0	5	20	41	83	59	43	34	27	22	15	0	0	0	0	0	0	0	347
13	0	0	0	0	0	0	0	8	36	42	141	232	73	73	58	35	11	0	0	0	0	0	0	0	709
14	0	0	0	0	0	0	0	4	19	24	23	56	46	67	32	65	46	1	0	0	0	0	0	0	382
15	0	0	0	0	0	0	0	4	13	82	169	259	203	155	51	42	12	1	0	0	0	0	0	0	992
16	0	0	0	0	0	0	0	14	104	311	488	580	463	318	246	193	87	2	0	0	0	0	0	0	2806
17	0	0	0	0	0	0	0	28	156	323	467	548	585	539	432	270	96	1	0	0	0	0	0	0	3446
18	0	0	0	0	0	0	0	18	139	303	438	513	548	509	407	252	86	1	0	0	0	0	0	0	3213
19	0	0	0	0	0	0	0	18	187	264	439	528	561	512	416	258	91	1	0	0	0	0	0	0	3275
20	0	0	0	0	0	0	0	19	131	307	451	531	430	416	331	165	61	1	0	0	0	0	0	0	2842
21	0	0	0	0	0	0	0	14	122	295	433	509	533	440	204	168	38	3	0	0	0	0	0	0	2759
22	0	0	0	0	0	0	0	6	30	43	94	377	207	135	45	105	32	1	0	0	0	0	0	0	1077
23	0	0	0	0	0	0	0	6	46	117	214	243	218	196	133	65	25	1	0	0	0	0	0	0	1262
24	0	0	0	0	0	0	0	1	8	41	96	96	76	62	58	32	18	0	0	0	0	0	0	0	490
25	0	0	0	0	0	0	0	12	132	238	288	342	479	468	397	239	71	1	0	0	0	0	0	0	2665
26	0	0	0	0	0	0	0	19	149	243	294	213	68	105	116	105	8	1	0	0	0	0	0	0	1321
27	0	0	0	0	0	0	0	0	20	57	125	180	164	44	112	46	29	0	0	0	0	0	0	0	779
28	0	0	0	0	0	0	0	16	138	311	439	407	505	533	445	295	113	5	0	0	0	0	0	0	3207
29	0	0	0	0	0	0	0	15	42	104	189	384	419	344	331	160	47	3	0	0	0	0	0	0	2038
30	0	0	0	0	0	0	0	9	116	212	248	579	558	524	459	303	123	6	0	0	0	0	0	0	3138
31	0	0	0	0	0	0	0	10	137	315	457	582	477	397	490	317	127	8	0	0	0	0	0	0	3318
Avg	0	0	0	0	0	0	0	17	109	217	310	389	369	330	265	172	61	2	0	0	0	0	0	0	2241
S D	0	0	0	0	0	0	0	12	67	126	168	189	218	204	172	104	37	2	0	0	0	0	0	0	1211
S/A	0	0	0	0	0	0	0	0.7	0.61	0.58	0.54	0.49	0.59	0.62	0.65	0.61	0.6	1.01	0	0	0	0	0	0	0.54
Min	0	0	0	0	0	0	0	0	8	24	23	56	42	34	27	22	8	0	0	0	0	0	0	0	347
Max	0	0	0	0	0	0	0	43	236	424	545	654	658	595	490	317	127	8	0	0	0	0	0	0	3991

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 16271 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 - December 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	0	0	29	220	482	6	7	3	1	0	0	0	0	0	0	0	0	0	0	0	748
2	0	0	0	0	0	0	0	30	226	515	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	774
3	0	0	0	0	0	0	0	14	15	37	43	33	13	16	9	18	17	0	0	0	0	0	0	0	0	216
4	0	0	0	0	0	0	0	8	15	14	10	13	6	9	9	13	13	6	0	0	0	0	0	0	0	115
5	0	0	0	0	0	0	0	28	251	555	4	6	3	0	0	0	0	1	0	0	0	0	0	0	0	847
6	0	0	0	0	0	0	0	54	198	557	4	8	4	0	0	0	0	0	0	0	0	0	0	0	0	825
7	0	0	0	0	0	0	0	17	203	590	0	3	2	0	0	0	4	0	0	0	0	0	0	0	0	818
8	0	0	0	0	0	0	0	4	22	52	34	39	26	19	17	18	8	0	0	0	0	0	0	0	0	239
9	0	0	0	0	0	0	0	9	15	23	36	32	27	25	22	12	16	2	0	0	0	0	0	0	0	220
10	0	0	0	0	0	0	0	26	110	110	23	24	13	1	2	0	0	0	0	0	0	0	0	0	0	308
11	0	0	0	0	0	0	0	23	22	155	31	30	6	3	5	20	15	1	0	0	0	0	0	0	0	311
12	0	0	0	0	0	0	0	3	6	5	12	9	6	5	2	3	5	1	0	0	0	0	0	0	0	56
13	0	0	0	0	0	0	0	14	14	5	21	32	10	12	10	8	4	0	0	0	0	0	0	0	0	130
14	0	0	0	0	0	0	0	5	2	2	3	8	5	10	4	15	12	3	0	0	0	0	0	0	0	69
15	0	0	0	0	0	0	0	18	3	9	23	31	23	21	2	5	5	6	0	0	0	0	0	0	0	147
16	0	0	0	0	0	0	0	10	33	263	0	1	13	34	25	5	8	4	0	0	0	0	0	0	0	395
17	0	0	0	0	0	0	0	29	349	767	725	7	8	4	0	0	16	12	0	0	0	0	0	0	0	1917
18	0	0	0	0	0	0	0	86	451	669	642	6	13	9	2	1	12	15	0	0	0	0	0	0	0	1905
19	0	0	0	0	0	0	0	101	655	586	649	6	11	9	4	0	13	22	0	0	0	0	0	0	0	2058
20	0	0	0	0	0	0	0	139	432	710	677	10	20	9	28	23	15	21	0	0	0	0	0	0	0	2083
21	0	0	0	0	0	0	0	74	346	618	481	13	34	39	22	18	18	4	0	0	0	0	0	0	0	1667
22	0	0	0	0	0	0	0	124	4	6	10	35	17	10	7	13	11	1	0	0	0	0	0	0	0	240
23	0	0	0	0	0	0	0	5	18	26	25	28	30	31	23	11	10	4	0	0	0	0	0	0	0	212
24	0	0	0	0	0	0	0	1	1	6	14	13	11	10	11	7	6	4	0	0	0	0	0	0	0	85
25	0	0	0	0	0	0	0	49	403	442	154	33	43	30	27	26	24	0	0	0	0	0	0	0	0	1232
26	0	0	0	0	0	0	0	158	562	457	133	22	7	7	10	14	3	2	0	0	0	0	0	0	0	1373
27	0	0	0	0	0	0	0	1	3	6	16	8	19	3	4	4	7	3	0	0	0	0	0	0	0	74
28	0	0	0	0	0	0	0	117	498	717	613	42	38	14	3	3	22	14	0	0	0	0	0	0	0	2079
29	0	0	0	0	0	0	0	21	4	8	15	55	29	29	34	25	14	4	0	0	0	0	0	0	0	240
30	0	0	0	0	0	0	0	26	207	211	87	65	43	21	6	2	20	18	0	0	0	0	0	0	0	705
31	0	0	0	0	0	0	0	52	534	764	811	142	23	27	5	4	27	20	0	0	0	0	0	0	0	2410
Avg	0	0	0	0	0	0	0	41	188	302	171	25	16	13	9	9	10	5	0	0	0	0	0	0	0	790
S D	0	0	0	0	0	0	0	44	203	287	268	27	12	11	10	8	7	7	0	0	0	0	0	0	0	747
S/A	0	0	0	0	0	0	0	1.06	1.08	0.95	1.57	1.09	0.75	0.86	1.04	0.96	0.71	1.27	0	0	0	0	0	0	0	0.94
Min	0	0	0	0	0	0	0	1	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Max	0	0	0	0	0	0	0	158	655	767	811	142	43	39	34	26	27	22	0	0	0	0	0	0	0	2410

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 53355 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 - December 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	0	0	41	117 ?	91 ?	?	?	?	?	429 ?	256 ?	92	1	0	0	0	0	0	0	1028 ?
2	0	0	0	0	0	0	0	38	108 ?	78 ?	?	?	?	?	?	156 ?	97	2	0	0	0	0	0	0	480 ?
3	0	0	0	0	0	0	0	27	108	229	265 ?	229	97	106	51	74	42	1	0	0	0	0	0	0	1231
4	0	0	0	0	0	0	0	9	51	56	59	90	38	54	46	44	25	2	0	0	0	0	0	0	475
5	0	0	0	0	0	0	0	24	100 ?	107 ?	?	?	?	?	?	?	67 ?	2	0	0	0	0	0	0	300 ?
6	0	0	0	0	0	0	0	37	91 ?	62 ?	?	?	?	?	?	?	74 ?	2	0	0	0	0	0	0	265 ?
7	0	0	0	0	0	0	0	36	88 ?	52 ?	?	?	?	?	?	349 ?	?	55	1	0	0	0	0	0	581 ?
8	0	0	0	0	0	0	0	14 ?	117	197	213	317	187	119	118	68	16	0	0	0	0	0	0	0	1366
9	0	0	0	0	0	0	0	9	45	102	231	223	193	167	123	56	30	1	0	0	0	0	0	0	1179
10	0	0	0	0	0	0	0	17	122	205	153	139	287 ?	?	217 ?	?	82 ?	1	0	0	0	0	0	0	1223 ?
11	0	0	0	0	0	0	0	27	86	130	185	364 ?	460 ?	419 ?	304 ?	188	62	1	0	0	0	0	0	0	2228 ?
12	0	0	0	0	0	0	0	5	18	39	77	54	40	31	26	21	14	0	0	0	0	0	0	0	325
13	0	0	0	0	0	0	0	8	33	40	131	214	67	67	54	33	11	0	0	0	0	0	0	0	657
14	0	0	0	0	0	0	0	3	19	24	21	52	43	61	31	61	43	1	0	0	0	0	0	0	358
15	0	0	0	0	0	0	0	3	12	79	159	242	189	143	50	41	11	1	0	0	0	0	0	0	931
16	0	0	0	0	0	0	0	13	89	158 ?	?	?	434 ?	300	235	168	87 ?	2	0	0	0	0	0	0	1486 ?
17	0	0	0	0	0	0	0	26	71	43	124	?	?	?	?	196 ?	94	1	0	0	0	0	0	0	556 ?
18	0	0	0	0	0	0	0	11	42	59	135	449 ?	?	?	?	202 ?	84	1	0	0	0	0	0	0	983 ?
19	0	0	0	0	0	0	0	12	43	56	133	458 ?	?	?	?	200 ?	90	1	0	0	0	0	0	0	993 ?
20	0	0	0	0	0	0	0	10	40	50	133	?	395	411	319	157	58	1	0	0	0	0	0	0	1575
21	0	0	0	0	0	0	0	10	49	72	208	?	470 ?	363 ?	173	142	35	2	0	0	0	0	0	0	1525
22	0	0	0	0	0	0	0	6	29	41	89	346	197	129	42	78	31	1	0	0	0	0	0	0	989
23	0	0	0	0	0	0	0	5	42	107	201	227	201	180	122	62	23	1	0	0	0	0	0	0	1173
24	0	0	0	0	0	0	0	1	8	39	90	89	70	56	54	30	17	0	0	0	0	0	0	0	453
25	0	0	0	0	0	0	0	8	48	83	220	306	342 ?	303 ?	370 ?	201 ?	66	1	0	0	0	0	0	0	1947
26	0	0	0	0	0	0	0	9	39	88	233	201	64	102	111	100	8	1	0	0	0	0	0	0	955
27	0	0	0	0	0	0	0	0	19	55	117	176	153	42	110	45	28	0	0	0	0	0	0	0	746
28	0	0	0	0	0	0	0	8	39	57	156	249 ?	321 ?	432 ?	?	?	110	4	0	0	0	0	0	0	1375 ?
29	0	0	0	0	0	0	0	13	41	101	181	312	356 ?	296	205 ?	112	45	3	0	0	0	0	0	0	1664
30	0	0	0	0	0	0	0	7	79	135	204	317 ?	377 ?	306 ?	?	?	112	6	0	0	0	0	0	0	1543 ?
31	0	0	0	0	0	0	0	5	31	46	77	306 ?	335 ?	291 ?	?	?	115	7	0	0	0	0	0	0	1212 ?
Avg	0	0	0	0	0	0	0	14	59	87	152	244	231	199	161	112	56	2	0	0	0	0	0	0	1026
S D	0	0	0	0	0	0	0	11	34	51	61	112	143	133	122	69	33	2	0	0	0	0	0	0	500
S/A	0	0	0	0	0	0	0	0.8	0.58	0.59	0.4	0.46	0.62	0.67	0.76	0.61	0.6	0.97	0	0	0	0	0	0	0.49
Min	0	0	0	0	0	0	0	0	8	24	21	52	38	31	26	21	8	0	0	0	0	0	0	0	265
Max	0	0	0	0	0	0	0	41	122	229	265	458	470	432	429	256	115	7	0	0	0	0	0	0	2228

Daylight Data Recovery: 0% missing; 10% exceed the 15% QC threshold -- 16271 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