

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 2001**

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	2	17	53	94	124	176	119	81	78	90	14	0	0	0	0	0	0	847
2	0	0	0	0	0	0	0	5	38	61	60	96	103	78	106	74	46	20	0	0	0	0	0	0	688
3	0	0	0	0	0	0	0	17	109	235	341	458	389	262	220	158	101	22	0	0	0	0	0	0	2314
4	0	0	0	0	0	0	0	2	29	86	127	286	298	92	118	99	36	8	0	0	0	0	0	0	1182
5	0	0	0	0	0	0	0	17	170	367	530	640	686	665	571	425	223	50	0	0	0	0	0	0	4344
6	0	0	0	0	0	0	0	32	193	372	534	644	692	665	575	429	226	49	0	0	0	0	0	0	4412
7	0	0	0	0	0	0	0	27	126	332	512	632	675	653	562	412	208	42	0	0	0	0	0	0	4182
8	0	0	0	0	0	0	0	22	149	369	514	630	679	674	549	406	165	47	0	0	0	0	0	0	4206
9	0	0	0	0	0	0	0	32	179	338	486	541	559	627	575	428	230	59	0	0	0	0	0	0	4052
10	0	0	0	0	0	0	0	6	25	59	123	199	152	106	82	55	124	62	0	0	0	0	0	0	993
11	0	0	0	0	0	0	0	28	188 ?	396	463	509	671	461	475	160	63	10	0	0	0	0	0	0	3424
12	0	0	0	0	0	0	0	4	39	91	138	157	194	204	245	181	98	24	0	0	0	0	0	0	1376
13	0	0	0	0	0	0	0	10	39	99	188	278	260	243	212	180	75	21	0	0	0	0	0	0	1603
14	0	0	0	0	0	0	0	13	75	154	233	245	364	388	437	317	187	51	0	0	0	0	0	0	2464
15	0	0	0	0	0	0	0	26	159	380	532	635	674	629	327	340	224	47	0	0	0	0	0	0	3974
16	0	0	0	0	0	0	0	24	106	173	439	666	744	628	403	406	210	77	1	0	0	0	0	0	3878
17	0	0	0	0	0	0	0	24	120	314	189	590	691	712	624	477	279	74	1	0	0	0	0	0	4093
18	0	0	0	0	0	0	0	44	224	432	600	711	756	732	634	478	275	77	0	0	0	0	0	0	4965
19	0	0	0	0	0	0	0	38	217	417	591	681	696	711	616	450	261	69	1	0	0	0	0	0	4748
20	0	0	0	0	0	0	0	40	177	445	488	583	543	401	329	265	162	48	1	0	0	0	0	0	3482
21	0	0	0	0	0	0	0	1	52	106	305	572	714	631	434	372	159	52	0	0	0	0	0	0	3401
22	0	0	0	0	0	0	0	12	90	204	171	149	68	93	272	188	240	44	1	0	0	0	0	0	1533
23	0	0	0	0	0	0	0	15	66	109	196	416	761	749	648	494	291	90	1	0	0	0	0	0	3834
24	0	0	0	0	0	0	0	24	114	147	191	504	684	725	628	417	72	43	2	0	0	0	0	0	3551
25	0	0	0	0	0	0	0	16	74	215	303	548	374	266	338	332	208	54	2	0	0	0	0	0	2729
26	0	0	0	0	0	0	0	30	194	419	581	493	301	440	394	389	226	98	1	0	0	0	0	0	3568
27	0	0	0	0	0	0	0	62	245	449	604	718	758	724	639	484	205	70	3	0	0	0	0	0	4963
28	0	0	0	0	0	0	0	25	141	373	567	275	515	544	421	144	61	15	1	0	0	0	0	0	3082
Avg	0	0	0	0	0	0	0	21	120	257	361	464	506	472	411	309	170	48	1	0	0	0	0	0	3139
S/D	0	0	0	0	0	0	0	14	67	138	183	197	228	236	185	143	77	24	1	0	0	0	0	0	1305
S/A	0	0	0	0	0	0	2.75	0.66	0.56	0.54	0.51	0.43	0.45	0.5	0.45	0.46	0.45	0.5	1.29	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	1	17	53	60	96	68	78	81	55	36	8	0	0	0	0	0	0	688
Max	0	0	0	0	0	0	0	62	245	449	604	718	761	749	648	494	291	98	3	0	0	0	0	0	4965

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: 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 - February 2001**

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	4	5	8	7	10	16	17	11	15	24	9	0	0	0	0	0	0	127
2	0	0	0	0	0	0	0	12	3	6	7	13	14	10	16	16	12	14	0	0	0	0	0	0	122
3	0	0	0	0	0	0	0	22	44	48	44	39	43	43	41	38	37	23	0	0	0	0	0	0	422
4	0	0	0	0	0	0	0	3	5	16	25	26	33	15	23	22	14	10	0	0	0	0	0	0	192
5	0	0	0	0	0	0	0	19	27	5	0	0	0	0	0	3	1	20	0	0	0	0	0	0	75
6	0	0	0	0	0	0	0	34	41	1	0	0	0	0	0	1	0	12	3	0	0	0	0	0	92
7	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	6	6	16	2	0	0	0	0	0	49
8	0	0	0	0	0	0	0	21	31	7	3	0	0	6	2	14	31	44	0	0	0	0	0	0	159
9	0	0	0	0	0	0	0	27	25	22	13	28	21	5	4	0	4	15	0	0	0	0	0	0	164
10	0	0	0	0	0	0	0	3	6	13	12	9	23	18	15	13	28	39	0	0	0	0	0	0	179
11	0	0	0	0	0	0	0	232	28	33	22	36	17	45	52	30	22	6	0	0	0	0	0	0	522
12	0	0	0	0	0	0	0	4	18	23	27	26	31	34	46	42	35	18	0	0	0	0	0	0	304
13	0	0	0	0	0	0	0	10	16	24	35	45	41	40	39	39	25	17	0	0	0	0	0	0	331
14	0	0	0	0	0	0	0	16	31	38	45	41	46	47	36	41	47	34	25	0	0	0	0	0	447
15	0	0	0	0	0	0	0	28	12	12	0	0	1	4	35	38	37	20	1	0	0	0	0	0	187
16	0	0	0	0	0	0	0	26	43	45	20	7	1	15	32	29	30	31	1	0	0	0	0	0	278
17	0	0	0	0	0	0	0	28	27	51	36	22	1	0	0	0	3	22	4	0	0	0	0	0	193
18	0	0	0	0	0	0	0	23	10	2	0	0	0	0	0	1	5	14	3	0	0	0	0	0	56
19	0	0	0	0	0	0	0	31	26	2	0	9	2	0	0	5	9	14	7	0	0	0	0	0	106
20	0	0	0	0	0	0	0	45	33	54	21	26	43	46	40	53	50	35	2	0	0	0	0	0	448
21	0	0	0	0	0	0	0	2	10	24	38	11	0	1	21	36	30	30	0	0	1	0	0	0	204
22	0	0	0	0	0	0	0	9	34	45	31	22	9	13	32	29	32	22	2	0	0	0	0	0	280
23	0	0	0	0	0	0	0	15	26	27	37	45	0	0	326	790	647	321	4	0	0	0	0	0	2238
24	0	0	0	0	0	0	0	19	34	22	18	333	628	796	742	294	14	20	6	0	0	0	0	0	2927
25	0	0	0	0	0	0	0	9	18	40	26	183	32	30	92	292	285	70	6	0	0	0	0	0	1084
26	0	0	0	0	0	0	0	30	287	642	740	405	45	177	245	406	292	256	2	0	0	0	0	0	3526
27	0	0	0	0	0	0	5	177	521	720	752	831	822	571	779	730	318	90	7	0	0	0	0	0	6321
28	0	0	0	0	0	0	1	13	63	351	431	32	172	166	140	16	10	4	2	0	0	0	0	0	1404
Avg	0	0	0	0	0	0	0	31	51	81	85	79	73	75	99	107	73	44	3	0	0	0	0	0	801
SD	0	0	0	0	0	0	1	50	104	178	199	173	186	177	198	206	140	71	5	0	0	0	0	0	1371
S/A	0	0	0	0	0	0	4.19	1.58	2.04	2.19	2.33	2.2	2.55	2.36	2	1.92	1.92	1.62	1.73	0	0	0	0	0	1.71
Min	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	49
Max	0	0	0	0	0	0	5	232	521	720	752	831	822	796	779	790	647	321	25	0	0	0	0	0	6321

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: 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 2001

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	1	16	50	90	118	166	109	74	71	83	13	0	0	0	0	0	0	791	
2	0	0	0	0	0	0	0	5	38	59	56	88	94	72	97	67	43	19	0	0	0	0	0	0	637	
3	0	0	0	0	0	0	0	15	99	216	318	433	361	235	197	142	91	20	0	0	0	0	0	0	2127	
4	0	0	0	0	0	0	0	2	28	79	113	242	277	82	105	89	33	8	0	0	0	0	0	0	1058	
5	0	0	0	0	0	0	0	15	164	?	?	?	?	?	?	?	181	?	50	0	0	0	0	0	410	
6	0	0	0	0	0	0	0	30	180	?	?	?	?	?	?	?	169	?	49	0	0	0	0	0	428	
7	0	0	0	0	0	0	0	28	137	332	?	?	?	?	?	?	340	?	188	41	0	0	0	0	1066	
8	0	0	0	0	0	0	0	22	141	266	?	443	?	?	?	?	530	?	225	?	156	43	0	0	1825	
9	0	0	0	0	0	0	0	32	131	?	322	?	450	?	466	?	480	?	539	?	?	189	?	58	0	3232
10	0	0	0	0	0	0	0	6	24	53	116	194	136	94	73	49	117	58	0	0	0	0	0	0	919	
11	0	0	0	0	0	0	0	32	155	?	316	?	375	?	418	?	574	?	414	351	?	146	56	9	0	2846
12	0	0	0	0	0	0	0	4	35	81	123	140	173	181	218	161	87	21	0	0	0	0	0	0	1224	
13	0	0	0	0	0	0	0	11	35	88	167	248	231	216	189	161	67	19	0	0	0	0	0	0	1431	
14	0	0	0	0	0	0	0	11	66	137	208	217	306	333	381	298	172	47	0	0	0	0	0	0	2177	
15	0	0	0	0	0	0	0	23	160	362	?	404	?	565	?	586	?	534	?	279	304	190	?	45	0	3452
16	0	0	0	0	0	0	0	22	94	153	371	?	495	?	?	422	?	347	358	?	189	65	1	0	2516	
17	0	0	0	0	0	0	0	23	109	269	168	477	?	526	?	?	?	?	195	?	71	1	0	0	1838	
18	0	0	0	0	0	0	0	47	177	?	?	?	?	?	?	?	?	?	199	?	76	0	0	0	500	
19	0	0	0	0	0	0	0	36	192	?	325	?	467	?	574	?	?	?	360	?	230	?	70	1	0	2254
20	0	0	0	0	0	0	0	39	147	379	?	459	535	?	480	369	304	239	145	43	1	0	0	0	3139	
21	0	0	0	0	0	0	0	1	49	95	282	458	?	?	544	?	407	354	149	47	0	0	0	0	2387	
22	0	0	0	0	0	0	0	11	80	184	152	133	62	84	251	173	214	41	1	0	0	0	0	0	1386	
23	0	0	0	0	0	0	0	13	58	97	173	351	?	?	153	?	86	62	34	1	0	0	0	0	1027	
24	0	0	0	0	0	0	0	22	103	136	179	264	217	150	148	258	67	40	2	0	0	0	0	0	1586	
25	0	0	0	0	0	0	0	15	68	195	287	417	349	244	278	186	112	41	1	0	0	0	0	0	2194	
26	0	0	0	0	0	0	0	26	93	102	117	209	267	314	234	181	112	52	1	0	0	0	0	0	1707	
27	0	0	0	0	0	0	0	35	75	93	129	119	137	307	127	95	84	54	3	0	0	0	0	0	1260	
28	0	0	0	0	0	0	0	24	118	195	296	251	384	422	325	135	57	15	1	0	0	0	0	0	2222	
Avg	0	0	0	0	0	0	0	20	99	183	238	318	319	285	255	195	130	41	0	0	0	0	0	0	1701	
S D	0	0	0	0	0	0	0	12	52	106	126	150	166	159	132	99	59	19	1	0	0	0	0	0	853	
S/A	0	0	0	0	0	0	3.31	0.62	0.53	0.58	0.53	0.47	0.52	0.56	0.52	0.51	0.45	0.46	1.25	0	0	0	0	0	0.5	
Min	0	0	0	0	0	0	0	1	16	50	56	88	62	72	73	49	33	8	0	0	0	0	0	0	410	
Max	0	0	0	0	0	0	0	47	192	379	459	565	586	565	539	360	230	76	3	0	0	0	0	0	3452	

Daylight Data Recovery: 0% missing; 23% 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: 7.53 uV/Wm-2
Serial Number: 17862F3
Calibration Date: 5/19/1998