

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 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	0	24	166	378	405	540	646	653	558	391	219	43	0	0	0	0	0	0	4023
2	0	0	0	0	0	0	0	19	130	363	561	642	697	661	562	438	258	58	0	0	0	0	0	0	4389
3	0	0	0	0	0	0	0	28 ?	260 ?	390	552	662	703	672	573	429	198	35	0	0	0	0	0	0	4502
4	0	0	0	0	0	0	0	23	171	373	535	640	687	660	547	401	215	48	0	0	0	0	0	0	4301
5	0	0	0	0	0	0	0	27	188	393	556	663	704	675	578	434	238	52	0	0	0	0	0	0	4507
6	0	0	0	0	0	0	0	33	222	390	551	662	711	681	582	441	241	55	0	0	0	0	0	0	4570
7	0	0	0	0	0	0	0	32	166	349	543	562	534	631	516	339	244	50	0	0	0	0	0	0	3965
8	0	0	0	0	0	0	0	15	132	254	345	341	390	649	284	178	237	52	0	0	0	0	0	0	2877
9	0	0	0	0	0	0	0	9	59	360	327	548	682	659	570	402	229	45	0	0	0	0	0	0	3891
10	0	0	0	0	0	0	0	29	180	375	535	691	688	651	564	377	246	56	0	0	0	0	0	0	4392
11	0	0	0	0	0	0	0	10	59	104	270	368	501	450	185	247	110	27	0	0	0	0	0	0	2330
12	0	0	0	0	0	0	0	30	122	154	200	456	563	261	436	276	153	54	0	0	0	0	0	0	2705
13	0	0	0	0	0	0	0	12	62	136	220	247	279	157	130	203	88	29	0	0	0	0	0	0	1561
14	0	0	0	0	0	0	0	3	11	36	102	105	348	542	361	415	216	52	0	0	0	0	0	0	2192
15	0	0	0	0	0	0	0	37	218	427	591	702	711	613	465	269	72	0	0	0	0	0	0	0	4846
16	0	0	0	0	0	0	0	43	220	366	472	586	637	627	534	369	146	73	1	0	0	0	0	0	4073
17	0	0	0	0	0	0	0	39	195	383	537	645	684	507	393	236	108	30	0	0	0	0	0	0	3759
18	0	0	0	0	0	0	0	27	126	388	506	654	683	663	547	445	264	71	1	0	0	0	0	0	4375
19	0	0	0	0	0	0	0	36	122	163	349	649	715	611	287	182	135	37	0	0	0	0	0	0	3286
20	0	0	0	0	0	0	0	50	206	458	621	736	764	738	642	479	291	83	0	0	0	0	0	0	5068
21	0	0	0	0	0	0	0	42	205	411	622	738	784	751	642	487	289	84	0	0	0	0	0	0	5054
22	0	0	0	0	0	0	0	51	236	446	612	726	778	748	650	494	293	87	0	0	0	0	0	0	5121
23	0	0	0	0	0	0	0	58	229	423	501	501	568	605	484	402	135	27	1	0	0	0	0	0	3934
24	0	0	0	0	0	0	0	71	302	448	605	714	760	736	640	486	292	80	1	0	0	0	0	0	5135
25	0	0	0	0	0	0	0	56	230	369	571	572	691	749	653	495	296	92	1	0	0	0	0	0	4775
26	0	0	0	0	0	0	0	67	217	428	517	700	792	771	707	374	121	41	2	0	0	0	0	0	4740
27	0	0	0	0	0	0	0	38	201	476	534	761	567	737	441	209	6	2	0	0	0	0	0	0	3970
28	0	0	0	0	0	0	0	56	118	227	592	751	807	717	490	224	249	101	1	0	0	0	0	0	4334
29	0	0	0	0	0	0	1	72	310 ?	458	647	765	812	787	686	528	325	109	1	0	0	0	0	0	5501
Avg	0	0	0	0	0	0	0	36	175	342	482	597	652	637	512	374	211	57	0	0	0	0	0	0	4075
S D	0	0	0	0	0	0	0	18	70	116	141	158	133	139	144	105	76	24	0	0	0	0	0	0	943
S/A	0	0	0	0	0	0	2.13	0.51	0.4	0.34	0.29	0.26	0.2	0.22	0.28	0.28	0.36	0.43	1.45	0	0	0	0	0	0.23
Min	0	0	0	0	0	0	0	3	11	36	102	105	279	157	130	178	6	2	0	0	0	0	0	0	1561
Max	0	0	0	0	0	0	1	72	310	476	647	765	812	787	707	528	325	109	2	0	0	0	0	0	5501

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3846 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 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	0	140	482	628	375	502	818	909	879	717	596	209	0	0	0	0	0	0	6256
2	0	0	0	0	0	0	0	16	169	608	827	762	956	901	671	659	628	224	0	0	0	0	0	0	6422
3	0	0	0	0	0	0	0	506	829	828	914	956	969	946	896	837	466	50	0	0	0	0	0	0	8198
4	0	0	0	0	0	0	0	96	481	749	864	907	921	909	816	726	573	223	0	0	0	0	0	0	7266
5	0	0	0	0	0	0	0	186	610	827	908	945	955	942	901	847	680	272	0	0	0	0	0	0	8073
6	0	0	0	0	0	0	0	197	720	816	898	935	955	946	901	846	666	264	2	0	0	0	0	0	8145
7	0	0	0	0	0	0	0	167	431	651	830	648	362	702	607	384	609	138	2	0	0	0	0	0	5530
8	0	0	0	0	0	0	0	16	80	85	103	56	86	664	65	26	443	187	12	0	0	0	0	0	1824
9	0	0	0	0	0	0	0	7	44	475	195	504	777	828	797	648	505	142	0	0	0	0	0	0	4923
10	0	0	0	0	0	0	0	113	452	673	765	768	789	788	758	514	509	175	0	0	0	0	0	0	6306
11	0	0	0	0	0	0	0	9	11	17	86	113	395	262	23	192	74	12	1	0	0	0	0	0	1195
12	0	0	0	0	0	0	0	38	39	23	20	217	327	76	320	260	95	38	2	0	0	0	0	0	1455
13	0	0	0	0	0	0	0	7	13	16	20	19	23	11	10	31	15	11	1	0	0	0	0	0	176
14	0	0	0	0	0	0	0	1	2	3	8	6	115	294	166	548	378	97	11	0	0	0	0	0	1629
15	0	0	0	0	0	0	0	164	619	822	903	946	951	936	894	830	675	306	0	0	0	0	0	0	8045
16	0	0	0	0	0	0	0	130	633	438	437	480	531	541	587	413	41	153	0	0	0	0	0	0	4383
17	0	0	0	0	0	0	0	111	402	587	678	714	667	166	37	35	20	12	1	0	0	0	0	0	3430
18	0	0	0	0	0	0	0	26	36	525	394	677	669	623	504	656	576	216	4	0	0	0	0	0	4906
19	0	0	0	0	0	0	0	35	49	26	111	580	729	566	63	58	77	14	19	0	0	0	0	0	2328
20	0	0	0	0	0	0	0	94	454	845	899	943	923	931	903	808	687	327	0	0	0	0	0	0	7814
21	0	0	0	0	0	0	0	143	474	710	892	939	952	936	874	805	659	314	0	0	0	0	0	0	7699
22	0	0	0	0	0	0	0	213	563	761	837	882	924	918	884	818	677	348	0	0	0	0	0	0	7825
23	0	0	0	0	0	0	0	154	476	605	393	177	247	326	275	350	36	9	1	0	0	0	0	0	3048
24	0	0	0	0	0	0	0	234	614	783	847	880	896	890	855	789	651	266	9	0	0	0	0	0	7715
25	0	0	0	0	0	0	0	186	531	624	789	566	754	901	876	811	673	356	17	0	0	0	0	0	7084
26	0	0	0	0	0	0	0	167	379	452	350	718	926	935	883	448	22	21	54	0	0	0	0	0	5354
27	0	0	0	0	0	0	7	53	220	814	418	790	314	708	226	36	0	0	1	0	0	0	0	0	3588
28	0	0	0	0	0	0	9	153	54	60	579	826	878	610	409	137	474	339	1	0	0	0	0	0	4527
29	0	0	0	0	0	0	6	233	1327	768	892	933	959	959	929	868	723	368	7	0	0	0	0	0	8971
Avg	0	0	0	0	0	0	1	124	386	525	560	634	682	694	586	521	422	176	5	0	0	0	0	0	5314
S D	0	0	0	0	0	0	2	103	304	299	329	311	303	290	335	301	267	125	11	0	0	0	0	0	2528
S/A	0	0	0	0	0	0	2.98	0.83	0.79	0.57	0.59	0.49	0.44	0.42	0.57	0.58	0.63	0.71	2.12	0	0	0	0	0	0.48
Min	0	0	0	0	0	0	0	1	2	3	8	6	23	11	10	26	0	0	0	0	0	0	0	0	176
Max	0	0	0	0	0	0	9	506	1327	845	914	956	969	959	929	868	723	368	54	0	0	0	0	0	8971

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3846 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 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	0	12	58	125	215	232	115	82	71	79	55	17	0	0	0	0	0	0	1061
2	0	0	0	0	0	0	0	18	89	116	124	167	73	91	186	155	83	31	0	0	0	0	0	0	1133
3	0	0	0	0	0	0	0	21	85	56	63	68	67	70	70	60	60	28	0	0	0	0	0	0	647
4	0	0	0	0	0	0	0	14	54	69	69	73	79	79	85	78	52	19	0	0	0	0	0	0	672
5	0	0	0	0	0	0	0	11	40	55	64	68	70	68	64	54	41	15	0	0	0	0	0	0	553
6	0	0	0	0	0	0	0	14	46	54	61	71	74	68	65	58	46	19	0	0	0	0	0	0	577
7	0	0	0	0	0	0	0	19	56	78	88	150	291	175	171	163	61	29	0	0	0	0	0	0	1281
8	0	0	0	0	0	0	0	14	110	218	288	305	332	214	246	166	111	25	0	0	0	0	0	0	2028
9	0	0	0	0	0	0	0	8	49	159	222	221	153	113	103	103	72	24	0	0	0	0	0	0	1228
10	0	0	0	0	0	0	0	17	63	88	106	194	149	126	117	139	90	29	0	0	0	0	0	0	1119
11	0	0	0	0	0	0	0	9	56	96	224	294	229	272	171	160	88	25	0	0	0	0	0	0	1625
12	0	0	0	0	0	0	0	28	112	144	188	312	337	211	240	161	119	49	0	0	0	0	0	0	1901
13	0	0	0	0	0	0	0	12	58	129	208	235	263	149	124	188	83	28	0	0	0	0	0	0	1478
14	0	0	0	0	0	0	0	3	10	35	97	101	267	343	264	151	92	35	0	0	0	0	0	0	1399
15	0	0	0	0	0	0	0	17	48	62	67	69	71	70	67	61	49	23	0	0	0	0	0	0	606
16	0	0	0	0	0	0	0	30	64	177	217	263	261	254	173	159	132	53	1	0	0	0	0	0	1784
17	0	0	0	0	0	0	0	26	81	117	139	162	208	391	371	219	101	29	0	0	0	0	0	0	1843
18	0	0	0	0	0	0	0	27	116	144	273	193	203	230	234	120	70	33	1	0	0	0	0	0	1643
19	0	0	0	0	0	0	0	36	109	150	282	248	189	211	247	154	110	35	0	0	0	0	0	0	1771
20	0	0	0	0	0	0	0	40	63	66	82	85	94	82	72	70	55	26	0	0	0	0	0	0	736
21	0	0	0	0	0	0	0	24	61	76	82	86	88	87	87	77	59	31	1	0	0	0	0	0	759
22	0	0	0	0	0	0	0	25	62	86	102	110	99	93	86	74	56	28	1	0	0	0	0	0	821
23	0	0	0	0	0	0	0	41	83	140	264	378	385	370	310	224	122	25	1	0	0	0	0	0	2344
24	0	0	0	0	0	0	0	38	111	71	82	91	94	93	87	75	59	32	1	0	0	0	0	0	835
25	0	0	0	0	0	0	0	30	60	71	82	168	127	94	83	69	53	29	1	0	0	0	0	0	869
26	0	0	0	0	0	0	0	41	104	194	300	183	97	88	130	128	113	38	2	0	0	0	0	0	1416
27	0	0	0	0	0	0	0	30	128	74	265	192	331	217	287	189	6	2	0	0	0	0	0	0	1721
28	0	0	0	0	0	0	0	33	104	199	215	151	140	266	219	147	76	37	1	0	0	0	0	0	1589
29	0	0	0	0	0	0	1	31	58	71	76	84	80	75	68	60	53	36	1	0	0	0	0	0	694
Avg	0	0	0	0	0	0	0	23	74	108	157	171	171	162	155	122	75	29	0	0	0	0	0	0	1246
S D	0	0	0	0	0	0	0	11	28	49	83	85	97	97	87	51	29	9	0	0	0	0	0	0	502
S/A	0	0	0	0	0	0	2.34	0.46	0.37	0.45	0.53	0.5	0.57	0.6	0.56	0.42	0.38	0.33	1.36	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	0	3	10	35	61	68	67	68	64	54	6	2	0	0	0	0	0	0	553
Max	0	0	0	0	0	0	1	41	128	218	300	378	385	391	371	224	132	53	2	0	0	0	0	0	2344

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3846 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