

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - July 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	8	132	286	503	499	824	946	774	706	505	631	481	276	99	7	0	0	0	0	6678
2	0	0	0	0	0	14	131	297	492	677	833	902	974	908	848	684	489	285	95	6	0	0	0	0	7637
3	0	0	0	0	0	14	134	292	481	665	808	929	966	946	839	697	519	309	113	7	0	0	0	0	7717
4	0	0	0	0	0	15	136	319	454	680	844	870	948	887	849	473	402	249	102	7	0	0	0	0	7235
5	0	0	0	0	0	9	110	272	466	653	807	897	935	816	766	528	442	257	107	13	0	0	0	0	7080
6	0	0	0	0	0	12	117	313	496	660	784	908	871	780	690	414	266	269	63	5	0	0	0	0	6648
7	0	0	0	0	0	6	70	258	397	500	723	771	603	811	836	228	182	120	53	7	0	0	0	0	5567
8	0	0	0	0	0	5	71	285	479	652	732	869	773	776	409	376	302	117	56	11	0	0	0	0	5912
9	0	0	0	0	0	9	106	256	502	647	812	954	969	922	827	676	489	291	105	7	0	0	0	0	7570
10	0	0	0	0	0	9	109	291	497	673	746	911	901	574	808	667	483	280	99	4	0	0	0	0	7052
11	0	0	0	0	0	4	59	217	396	575	767	742	872	895	489	213	256	137	69	3	0	0	0	0	5695
12	0	0	0	0	0	10	99	254	444	626	761	800	808	733	784	595	460	143	42	2	0	0	0	0	6563
13	0	0	0	0	0	8	101	275	457	646	766	760	910	736	733	259	259	28	15	5	0	0	0	0	5959
14	0	0	0	0	0	5	59	218	431	630	747	786	483	553	724	310	428	132	105	13	0	0	0	0	5624
15	0	0	0	0	0	7	105	308	506	690	831	920	902	932	819	673	468	313	107	5	0	0	0	0	7584
16	0	0	0	0	0	10	104	303	523	674	831	926	967	646	627	639	315	204	134	12	0	0	0	0	6915
17	0	0	0	0	0	6	97	295	499	689	837	937	1003	908	754	643	467	279	93	6	0	0	0	0	7513
18	0	0	0	0	0	8	94	280	480	652	700	731	495	771	800	611	440	266	58	8	0	0	0	0	6392
19	0	0	0	0	0	7	98	277	481	663	812	905	929	887	798	636	446	211	81	4	0	0	0	0	7236
20	0	0	0	0	0	6	93	271	475	664	813	925	956	852	775	674	466	290	95	5	0	0	0	0	7361
21	0	0	0	0	0	7	108	260	457	651	712	893	904	899	800	633	483	291	109	5	0	0	0	0	7213
22	0	0	0	0	0	6	102	287	475	656	763	931	963	909	816	458	25	41	84	8	0	0	0	0	6524
23	0	0	0	0	0	7	80	221	283	592	528	587	609	51	262	389	272	179	37	0	0	0	0	0	4096
24	0	0	0	0	0	1	32	192	443	354	598	526	244	444	132	61	42	60	16	2	0	0	0	0	3148
25	0	0	0	0	0	1	54	159	223	233	582	511	610	487	498	407	178	24	27	1	0	0	0	0	3995
26	0	0	0	0	0	2	34	139	255	705	774	563	596	580	369	377	339	158	25	2	0	0	0	0	4916
27	0	0	0	0	0	3	63	249	448	592	829	447	138	660	688	286	135	19	64	14	?	0	0	0	4636
28	0	0	0	0	0	3	75	262	461	671	737	894	903	912	812	681	458	151	35	1	0	0	0	0	7056
29	0	0	0	0	0	2	78	202	490	680	655	367	225	322	288	101	196	191	76	2	0	0	0	0	3876
30	0	0	0	0	0	3	56	180	213	666	575	820	704	658	531	646	473	249	69	3	0	0	0	0	5847
31	0	0	0	0	0	3	59	161	310	569	831	798	955	889	822	676	486	270	18	1	0	0	0	0	6848
Avg	0	0	0	0	0	7	89	254	436	619	754	798	771	737	668	495	360	196	73	6	0	0	0	0	6261
S/D	0	0	0	0	0	4	28	48	85	100	84	161	238	203	198	188	140	92	33	4	0	0	0	0	1238
S/A	0	0	0	0	0	0.53	0.31	0.19	0.19	0.16	0.11	0.2	0.31	0.28	0.3	0.38	0.39	0.47	0.45	0.66	0	0	0	0	0.2
Min	0	0	0	0	0	1	32	139	213	233	528	367	138	51	132	61	25	19	15	0	0	0	0	0	3148
Max	0	0	0	0	0	15	136	319	523	705	844	954	1003	946	849	697	519	313	134	14	0	0	0	0	7717

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5222 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 - July 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	9	144	245	447	231	557	662	411	331	201	478	504	326	112	8	0	0	0	0	4666
2	0	0	0	0	0	24	204	348	469	569	658	647	713	651	698	620	525	368	124	7	0	0	0	0	6625
3	0	0	0	0	0	23	201	385	500	583	626	710	748	774	727	702	658	507	238	9	0	0	0	0	7392
4	0	0	0	0	0	26	185	388	438	568	633	603	673	648	683	269	304	254	124	9	0	0	0	0	5805
5	0	0	0	0	0	16	67	157	320	442	552	595	615	505	480	278	290	201	68	24	0	0	0	0	4609
6	0	0	0	0	0	15	160	451	531	481	578	586	494	370	308	147	80	210	44	8	0	0	0	0	4463
7	0	0	0	0	0	15	34	167	167	206	368	375	241	453	513	67	36	36	30	11	0	0	0	0	2719
8	0	0	0	0	0	12	38	239	429	489	434	578	439	440	106	150	134	32	36	18	0	0	0	0	3574
9	0	0	0	0	0	15	140	285	459	479	545	627	662	692	655	603	524	383	152	25	0	0	0	0	6247
10	0	0	0	0	0	17	161	360	448	562	473	652	554	284	637	588	508	343	115	20	0	0	0	0	5722
11	0	0	0	0	0	10	29	94	174	248	406	278	389	545	181	44	76	19	21	11	0	0	0	0	2525
12	0	0	0	0	0	24	61	203	326	413	442	431	389	289	510	420	404	47	23	10	0	0	0	0	3992
13	0	0	0	0	0	22	116	290	421	539	552	364	577	381	436	60	86	7	8	13	0	0	0	0	3872
14	0	0	0	0	0	11	29	104	322	417	378	304	97	164	338	120	281	40	36	32	0	0	0	0	2672
15	0	0	0	0	0	16	169	476	589	666	693	696	633	709	656	659	531	538	236	11	0	0	0	0	7278
16	0	0	0	0	0	29	99	459	638	691	777	800	814	390	347	494	195	145	99	30	0	0	0	0	6006
17	0	0	0	0	0	12	145	434	600	722	779	808	831	723	607	602	490	343	71	6	0	0	0	0	7173
18	0	0	0	0	0	27	115	388	544	594	495	381	155	370	501	410	345	265	48	18	0	0	0	0	4656
19	0	0	0	0	0	38	142	375	546	627	685	709	689	657	612	497	404	204	83	6	0	0	0	0	6274
20	0	0	0	0	0	12	115	359	545	673	724	788	771	661	685	726	598	484	194	6	0	0	0	0	7342
21	0	0	0	0	0	13	169	343	492	613	459	699	649	707	688	567	567	453	191	5	0	0	0	0	6615
22	0	0	0	0	0	12	214	477	570	630	485	707	746	725	681	359	3	15	57	17	0	0	0	0	5699
23	0	0	0	0	0	16	53	130	203	378	70	52	152	6	37	88	82	86	19	2	0	0	0	0	1374
24	0	0	0	0	0	3	17	73	304	83	195	119	28	46	15	8	8	16	11	4	0	0	0	0	929
25	0	0	0	0	0	2	28	49	41	34	114	71	150	67	81	119	32	5	12	3	0	0	0	0	808
26	0	0	0	0	0	4	18	40	55	451	484	221	241	294	172	168	202	78	12	7	0	0	0	0	2447
27	0	0	0	0	0	14	33	300	425	358	554	170	13	204	339	56	31	3	27	69	0	0	0	0	2597
28	0	0	0	0	0	10	65	344	516	617	509	611	598	678	682	630	468	144	17	1	0	0	0	0	5888
29	0	0	0	0	0	9	159	278	633	505	264	54	33	72	67	14	43	195	135	29	0	0	0	0	2490
30	0	0	0	0	0	9	63	258	157	504	314	498	231	177	207	509	273	178	35	5	0	0	0	0	3420
31	0	0	0	0	0	12	126	94	214	494	665	580	791	761	799	745	632	433	7	5	0	0	0	0	6358
Avg	0	0	0	0	0	15	106	277	404	480	499	496	469	444	440	361	300	205	77	14	0	0	0	0	4588
S D	0	0	0	0	0	8	62	132	166	169	175	232	261	238	241	245	214	169	68	13	0	0	0	0	1965
S/A	0	0	0	0	0	0.51	0.58	0.48	0.41	0.35	0.35	0.47	0.56	0.54	0.55	0.68	0.71	0.82	0.88	0.95	0	0	0	0	0.43
Min	0	0	0	0	0	2	17	40	41	34	70	52	13	6	15	8	3	3	7	1	0	0	0	0	808
Max	0	0	0	0	0	38	214	477	638	722	779	808	831	774	799	745	658	538	238	69	0	0	0	0	7392

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5222 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 - July 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	8	94	179	232	325	328	309	369	390	323	274	183	141	73	6	0	0	0	0	3234
2	0	0	0	0	0	12	84	150	207	242	250	280	271	285	235	216	177	134	66	6	0	0	0	0	2615
3	0	0	0	0	0	12	81	132	180	220	254	246	228	204	200	168	128	101	59	6	0	0	0	0	2222
4	0	0	0	0	0	13	92	156	191	246	284	291	285	268	248	268	216	149	73	6	0	0	0	0	2787
5	0	0	0	0	0	8	94	206	272	315	319	325	329	333	342	313	272	174	92	12	0	0	0	0	3407
6	0	0	0	0	0	11	78	123	179	291	275	344	384	426	417	303	222	181	52	4	0	0	0	0	3291
7	0	0	0	0	0	6	63	186	300	339	402	412	365	379	386	175	161	106	47	7	0	0	0	0	3334
8	0	0	0	0	0	5	61	181	221	282	346	315	341	354	316	265	219	104	50	11	0	0	0	0	3070
9	0	0	0	0	0	8	74	139	227	283	331	354	317	260	252	220	178	133	70	7	0	0	0	0	2853
10	0	0	0	0	0	8	72	142	231	247	331	287	356	301	250	223	181	138	72	4	0	0	0	0	2842
11	0	0	0	0	0	4	53	179	293	383	410	478	489	374	327	178	211	129	65	3	0	0	0	0	3575
12	0	0	0	0	0	9	84	170	250	314	372	388	426	459	337	280	216	123	37	2	0	0	0	0	3467
13	0	0	0	0	0	7	75	156	205	239	282	413	344	371	353	213	204	25	13	5	0	0	0	0	2905
14	0	0	0	0	0	5	54	172	240	316	417	498	388	396	427	225	257	116	98	11	0	0	0	0	3620
15	0	0	0	0	0	6	65	114	157	190	224	254	281	253	245	173	159	96	54	5	0	0	0	0	2276
16	0	0	0	0	0	8	84	113	147	155	151	163	168	271	324	268	198	149	112	11	0	0	0	0	2322
17	0	0	0	0	0	5	66	118	145	147	155	166	189	218	223	190	178	139	78	5	0	0	0	0	2022
18	0	0	0	0	0	7	68	123	160	207	273	368	343	421	362	303	239	157	47	7	0	0	0	0	3083
19	0	0	0	0	0	6	68	125	161	193	214	230	254	261	263	263	206	130	63	4	0	0	0	0	2439
20	0	0	0	0	0	5	67	126	156	160	182	175	201	221	179	128	113	95	53	4	0	0	0	0	1867
21	0	0	0	0	0	7	73	124	172	193	313	228	269	227	198	209	151	107	66	4	0	0	0	0	2342
22	0	0	0	0	0	5	57	99	143	189	339	259	234	219	221	179	23	36	74	7	0	0	0	0	2084
23	0	0	0	0	0	7	69	170	157	316	467	538	459	45	231	325	225	146	33	0	0	0	0	0	3189
24	0	0	0	0	0	1	28	162	268	295	426	414	216	400	119	55	38	53	14	2	0	0	0	0	2492
25	0	0	0	0	0	1	48	140	199	208	484	444	464	423	428	318	160	22	24	1	0	0	0	0	3363
26	0	0	0	0	0	2	31	124	222	370	357	355	360	297	215	246	221	125	22	2	0	0	0	0	2948
27	0	0	0	0	0	3	56	131	207	323	347	284	126	466	394	247	115	19	60	10	?	0	0	0	2788
28	0	0	0	0	0	3	61	127	164	216	302	315	322	271	221	214	184	88	32	1	0	0	0	0	2519
29	0	0	0	0	0	2	44	93	129	308	430	317	193	254	229	90	171	124	45	2	0	0	0	0	2432
30	0	0	0	0	0	3	46	90	124	297	306	347	479	492	354	272	317	183	63	3	0	0	0	0	3376
31	0	0	0	0	0	3	39	128	183	215	256	253	188	173	132	126	122	100	16	1	0	0	0	0	1936
Avg	0	0	0	0	0	6	65	141	198	259	317	324	311	313	282	223	182	114	56	5	0	0	0	0	2797
S/D	0	0	0	0	0	3	17	29	47	64	84	92	96	99	83	66	60	43	24	3	0	0	0	0	510
S/A	0	0	0	0	0	0.53	0.26	0.2	0.24	0.25	0.26	0.28	0.31	0.32	0.3	0.3	0.33	0.38	0.43	0.63	0	0	0	0	0.18
Min	0	0	0	0	0	1	28	90	124	147	151	163	126	45	119	55	23	19	13	0	0	0	0	0	1867
Max	0	0	0	0	0	13	94	206	300	383	484	538	489	492	428	325	317	183	112	12	0	0	0	0	3620

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5222 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