

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - July 1998

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	18	137	289	390	700	842	932	978	922	791	520	480	298	107	6	0	0	0	0	7410
2	0	0	0	0	0	8	89	313	529	708	821	878	784	166	446	23	175	200	45	9	0	0	0	0	5194
3	0	0	0	0	0	17	98	332	516	688	809	947	923	830	820	463	377	184	115	6	0	0	0	0	7125
4	0	0	0	0	0	15	124	279	500	675	810	766	592	535	277	31	85	347	107	4	0	0	0	0	5147
5	0	0	0	0	0	10	120	327	528	710	848	942	959	863	684	531	460	146	14	0	0	0	0	0	7141
6	0	0	0	0	0	5	38	122	308	411	689	696	529	633	633	573	438	258	96	8	0	0	0	0	5438
7	0	0	0	0	0	13	91	233	494	687	806	949	986	958	860	696	457	301	102	9	0	0	0	0	7640
8	0	0	0	0	0	10	110	276	391	677	824	920	880	906	802	646	459	266	90	6	0	0	0	0	7264
9	0	0	0	0	0	3	46	128	183	580	667	934	890	816	800	656	444	276	89	7	0	0	0	0	6519
10	0	0	0	0	0	13	114	275	443	663	829	929	912	763	834	692	405	105	75	6	0	0	0	0	7058
11	0	0	0	0	0	10	108	230	388	642	797	756	943	759	39	405	247	17	82	13	0	0	0	0	5435
12	0	0	0	0	0	3	22	48	128	284	386	133	192	430	702	366	205	111	41	1	0	0	0	0	3053
13	0	0	0	0	0	7	110	288	498	628	775	797	810	803	807	606	485	298	75	2	0	0	0	0	6992
14	0	0	0	0	0	5	89	163	290	441	554	372	254	272	590	537	369	167	74	6	0	0	0	0	4184
15	0	0	0	0	0	7	114	222	345	396	839	746	917	969	384	180	134	80	36	3	0	0	0	0	5372
16	0	0	0	0	0	7	84	167	260	204	119	232	291	234	362	221	310	150	50	2	0	0	0	0	2691
17	0	0	0	0	0	8	57	230	437	681	833	863	765	801	538	462	140	8	45	5	0	0	0	0	5873
18	0	0	0	0	0	6	73	144	257	376	393	528	808	813	362	208	280	86	23	2	0	0	0	0	4358
19	0	0	0	0	0	6	95	272	467	661	814	894	780	698	495	106	41	39	16	1	0	0	0	0	5386
20	0	0	0	0	0	6	75	257	414	624	870	951	918	849	653	641	467	294	94	3	0	0	0	0	7116
21	0	0	0	0	0	10	114	193	430	606	724	1104	870	751	867	712	522	321	108	1	0	0	0	0	7332
22	0	0	0	0	0	6	111	292	406	655	796	833	989	502	520	600	494	289	98	3	0	0	0	0	6595
23	0	0	0	0	0	5	107	299	502	701	833	670	866	740	712	529	456	249	107	2	0	0	0	0	6777
24	0	0	0	0	0	9	124	284	518	710	868	880	968	978	550	165	329	6	4	0	0	0	0	0	6393
25	0	0	0	0	0	6	71	232	504	684	858	818	968	945	856	535	505	321	65	4	0	0	0	0	7372
26	0	0	0	0	0	4	116	305	394	702	829	946	918	725	700	605	281	98	49	2	0	0	0	0	6672
27	0	0	0	0	0	3	70	250	437	453	668	876	927	759	100	52	98	27	4	0	0	0	0	0	4723
28	0	0	0	0	0	1	36	172	346	393	211	386	629	427	812	714	329	93	35	0	0	0	0	0	4583
29	0	0	0	0	0	4	71	256	402	646	783	908	751	759	658	523	485	284	79	1	0	0	0	0	6610
30	0	0	0	0	0	5	85	262	463	636	736	824	895	599	679	613	445	164	13	0	0	0	0	0	6419
31	0	0	0	0	0	3	53	240	394	604	834	919	953	941	811	671	59	4	4	0	0	0	0	0	6489
Avg	0	0	0	0	0	8	89	238	405	588	725	785	801	714	618	461	337	177	63	4	0	0	0	0	6012
S/D	0	0	0	0	0	4	29	66	100	138	190	224	214	217	218	149	111	36	3	0	0	0	0	0	1277
S/A	0	0	0	0	0	0.55	0.33	0.28	0.25	0.24	0.26	0.28	0.27	0.3	0.35	0.47	0.44	0.63	0.58	0.84	0	0	0	0	0.21
Min	0	0	0	0	0	1	22	48	128	204	119	133	192	166	39	23	41	4	4	0	0	0	0	0	2691
Max	0	0	0	0	0	18	137	332	529	710	870	1104	989	978	867	714	522	347	115	13	0	0	0	0	7640

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: 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 - July 1998**

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	38	176	193	181	609	688	713	731	628	551	317	490	400	172	7	0	0	0	0	5895
2	0	0	0	0	0	17	61	387	573	631	617	454	229	15	118	3	35	67	28	24	0	0	0	0	3259
3	0	0	0	0	0	37	73	327	508	600	619	730	625	449	500	232	309	98	99	4	0	0	0	0	5210
4	0	0	0	0	0	25	149	316	499	561	596	440	192	175	92	3	18	248	92	3	0	0	0	0	3410
5	0	0	0	0	0	20	200	534	667	757	792	761	675	610	500	426	466	86	6	0	0	0	0	0	6500
6	0	0	0	0	0	11	19	36	45	74	178	224	131	230	353	335	266	151	58	11	0	0	0	0	2123
7	0	0	0	0	0	20	71	108	385	575	575	729	743	738	710	584	390	310	86	19	0	0	0	0	6045
8	0	0	0	0	0	25	64	182	142	427	499	498	435	559	511	448	343	221	56	48	0	0	0	0	4458
9	0	0	0	0	0	6	26	39	31	272	171	439	415	469	605	517	402	302	88	28	0	0	0	0	3811
10	0	0	0	0	0	44	80	202	239	490	604	658	574	391	506	527	279	28	46	20	0	0	0	0	4689
11	0	0	0	0	0	27	41	101	174	381	508	228	567	408	4	147	54	5	65	24	0	0	0	0	2732
12	0	0	0	0	0	5	14	11	26	53	54	17	24	96	217	58	39	33	23	3	0	0	0	0	672
13	0	0	0	0	0	13	164	399	540	467	491	399	446	505	621	438	487	382	79	3	0	0	0	0	5433
14	0	0	0	0	0	11	44	56	82	121	179	63	25	47	260	328	196	44	42	15	0	0	0	0	1513
15	0	0	0	0	0	14	110	151	180	129	527	414	554	630	194	33	29	24	21	5	0	0	0	0	3015
16	0	0	0	0	0	17	47	51	50	31	15	29	36	30	39	36	100	46	29	4	0	0	0	0	560
17	0	0	0	0	0	23	35	90	236	356	620	458	348	429	199	218	47	2	29	13	0	0	0	0	3106
18	0	0	0	0	0	13	41	43	60	57	58	79	302	363	79	32	58	26	14	6	0	0	0	0	1231
19	0	0	0	0	0	22	65	234	347	475	546	525	364	305	199	17	9	12	9	3	0	0	0	0	3132
20	0	0	0	0	0	9	81	301	384	416	647	700	633	593	437	575	505	436	190	4	0	0	0	0	5913
21	0	0	0	0	0	21	129	100	279	429	520	818	618	541	810	799	739	628	298	0	0	0	0	0	6729
22	0	0	0	0	0	12	182	383	344	540	632	572	714	192	233	483	578	419	164	3	0	0	0	0	5451
23	0	0	0	0	0	15	227	504	648	708	686	388	615	469	517	406	514	306	156	9	0	0	0	0	6169
24	0	0	0	0	0	12	226	454	701	759	715	652	708	759	312	31	122	1	1	4	0	0	0	0	5456
25	0	0	0	0	0	18	49	173	529	663	675	425	678	786	730	384	598	365	67	8	0	0	0	0	6147
26	0	0	0	0	0	12	112	309	302	578	628	644	523	339	373	323	107	31	30	4	0	0	0	0	4317
27	0	0	0	0	0	8	54	225	342	114	287	550	532	325	12	10	18	6	2	1	0	0	0	0	2485
28	0	0	0	0	0	25	18	38	82	94	24	43	82	81	602	640	169	29	19	5	0	0	0	0	1950
29	0	0	0	0	0	7	33	291	356	544	555	658	428	451	386	343	485	339	73	1	0	0	0	0	4950
30	0	0	0	0	0	21	110	307	482	415	389	576	595	99	340	354	316	96	9	1	0	0	0	0	4110
31	0	0	0	0	0	10	38	204	367	515	664	708	728	740	677	621	37	1	2	1	0	0	0	0	5315

Avg	0	0	0	0	0	18	88	218	316	414	476	471	460	402	377	312	265	166	66	9	0	0	0	0	4058
S D	0	0	0	0	0	9	62	147	200	223	227	235	227	226	226	224	213	172	67	10	0	0	0	0	1772
S/A	0	0	0	0	0	0.52	0.71	0.67	0.63	0.54	0.48	0.5	0.49	0.57	0.6	0.72	0.81	1.04	1.01	1.15	0	0	0	0	0.44
Min	0	0	0	0	0	5	14	11	26	31	15	17	24	15	4	3	9	1	1	0	0	0	0	0	560
Max	0	0	0	0	0	44	227	534	701	759	792	818	743	786	810	799	739	628	298	48	0	0	0	0	6729

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 85480 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 - July 1998

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	16	98	207	280	232	232	247	257	321	305	279	195	134	68	5	0	0	0	0	2876
2	0	0	0	0	0	7	73	147	183	225	274	440	559	151	339	21	155	172	39	8	0	0	0	0	2794
3	0	0	0	0	0	17	81	191	210	231	261	246	306	401	378	288	197	143	92	6	0	0	0	0	3048
4	0	0	0	0	0	14	89	146	198	247	282	346	402	367	194	25	75	248	84	4	0	0	0	0	2722
5	0	0	0	0	0	9	70	103	126	134	148	213	294	280	240	214	185	106	13	0	0	0	0	0	2135
6	0	0	0	0	0	5	34	107	261	353	530	481	400	414	325	315	277	195	83	7	0	0	0	0	3789
7	0	0	0	0	0	12	77	184	259	246	295	250	255	251	236	254	223	173	80	8	0	0	0	0	2802
8	0	0	0	0	0	9	94	202	300	351	384	443	452	372	352	308	255	174	77	6	0	0	0	0	3778
9	0	0	0	0	0	3	41	112	164	368	517	513	481	370	269	267	209	147	69	6	0	0	0	0	3535
10	0	0	0	0	0	12	95	191	303	288	297	299	347	388	391	294	242	94	65	5	0	0	0	0	3309
11	0	0	0	0	0	9	99	187	283	350	350	538	386	366	35	309	213	15	71	11	0	0	0	0	3224
12	0	0	0	0	0	2	19	43	113	243	339	118	169	340	506	321	183	97	36	1	0	0	0	0	2531
13	0	0	0	0	0	7	70	127	178	274	346	416	372	319	265	274	202	144	55	2	0	0	0	0	3052
14	0	0	0	0	0	4	79	142	244	350	394	313	230	228	365	290	246	150	66	6	0	0	0	0	3106
15	0	0	0	0	0	6	88	168	236	303	374	350	373	367	208	155	117	70	31	2	0	0	0	0	2848
16	0	0	0	0	0	6	73	145	231	180	105	204	256	205	328	194	252	133	43	2	0	0	0	0	2358
17	0	0	0	0	0	8	50	194	297	410	289	429	423	391	364	303	110	7	39	5	0	0	0	0	3318
18	0	0	0	0	0	5	66	126	221	333	341	453	512	467	292	184	244	75	20	2	0	0	0	0	3341
19	0	0	0	0	0	5	80	178	263	305	338	394	424	406	318	93	36	34	14	1	0	0	0	0	2887
20	0	0	0	0	0	6	57	134	189	310	305	285	298	281	277	210	174	119	52	3	0	0	0	0	2700
21	0	0	0	0	0	8	89	154	263	282	268	327	265	239	159	113	89	70	42	1	0	0	0	0	2372
22	0	0	0	0	0	6	73	142	204	253	243	290	291	317	317	244	155	121	62	3	0	0	0	0	2720
23	0	0	0	0	0	5	58	101	127	174	235	305	266	292	264	224	162	124	69	2	0	0	0	0	2408
24	0	0	0	0	0	9	78	103	112	146	248	262	278	257	272	142	253	5	3	0	0	0	0	0	2169
25	0	0	0	0	0	6	61	160	199	192	274	419	307	199	221	245	159	172	49	4	0	0	0	0	2666
26	0	0	0	0	0	4	93	183	222	273	284	336	409	405	380	359	221	85	43	2	0	0	0	0	3297
27	0	0	0	0	0	2	58	162	241	370	414	355	409	449	89	45	88	24	3	0	0	0	0	0	2710
28	0	0	0	0	0	1	32	157	298	325	190	344	550	351	292	237	224	81	31	0	0	0	0	0	3112
29	0	0	0	0	0	3	65	138	196	242	304	287	335	333	320	272	205	150	63	1	0	0	0	0	2914
30	0	0	0	0	0	5	62	143	187	333	401	280	318	504	388	348	261	123	11	0	0	0	0	0	3364
31	0	0	0	0	0	3	46	157	192	221	262	253	247	243	225	211	33	4	4	0	0	0	0	0	2101
Avg	0	0	0	0	0	7	69	149	219	276	307	337	351	331	288	227	182	109	48	3	0	0	0	0	2903
S/D	0	0	0	0	0	4	20	36	55	69	89	96	95	83	92	90	66	60	26	3	0	0	0	0	441
S/A	0	0	0	0	0	0.57	0.29	0.24	0.25	0.25	0.29	0.28	0.27	0.25	0.32	0.4	0.36	0.55	0.54	0.82	0	0	0	0	0.15
Min	0	0	0	0	0	1	19	43	112	134	105	118	169	151	35	21	33	4	3	0	0	0	0	0	2101
Max	0	0	0	0	0	17	99	207	303	410	530	538	559	504	506	359	277	248	92	11	0	0	0	0	3789

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: 8.29 uV/Wm-2
Serial Number: 18040F3
Calibration Date: 9/13/96