

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - March 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	0	0	63	283	430	650	763	807	772	670	513	304	125	2	0	0	0	0	0	5382
2	0	0	0	0	0	0	1	78	296	513	692	809	856	821	714	551	339	124	3	0	0	0	0	0	5798
3	0	0	0	0	0	0	1	84	293	508	695	803	870	831	696	550	335	124	4	0	0	0	0	0	5791
4	0	0	0	0	0	0	1	86	293	504	680	802	848	811	702	525	327	117	3	0	0	0	0	0	5699
5	0	0	0	0	0	0	0	16	40	33	164	360	289	392	209	131	109	16	0	0	0	0	0	0	1760
6	0	0	0	0	0	0	1	32	69	135	133	144	76	214	397	265	139	53	3	0	0	0	0	0	1661
7	0	0	0	0	0	0	0	14	24	44	106	121	146	196	142	36	37	22	1	0	0	0	0	0	892
8	0	0	0	0	0	0	2	31	85	180	246	157	132	383	135	40	22	7	0	0	0	0	0	0	1419
9	0	0	0	0	0	0	2	73	257	446	547	618	592	518	278	347	195	76	5	0	0	0	0	0	3953
10	0	0	0	0	0	0	3	113	339	525	423	444	706	870	764	591	377	149	8	0	0	0	0	0	5312
11	0	0	0	0	0	0	3	118	345	569	748	862	901	872	766	594	378	149	7	0	0	0	0	0	6313
12	0	0	0	0	0	0	6	121	348	571	748	869	917	883	772	599	383	150	7	0	0	0	0	0	6373
13	0	0	0	0	0	0	10	202	366	576	752	863	904	864	754	578	373	147	7	0	0	0	0	0	6397
14	0	0	0	0	0	0	7	129	342	559	734	848	891	854	746	575	353	137	7	0	0	0	0	0	6183
15	0	0	0	0	0	0	6	120	333	542	711	821	861	824	722	557	353	137	7	0	0	0	0	0	5993
16	0	0	0	0	0	0	8	122	323	530	695	813	835	782	593	450	230	113	10	0	0	0	0	0	5503
17	0	0	0	0	0	0	3	30	68	143	227	164	190	117	74	49	24	11	4	0	0	0	0	0	1105
18	0	0	0	0	0	0	3	33	59	73	195	94	158	326	282	122	45	31	3	0	0	0	0	0	1422
19	0	0	0	0	0	0	8	63	114	204	428	663	892	707	386	268	126	43	3	0	0	0	0	0	3903
20	0	0	0	0	0	0	5	88	218	264	144	153	340	648	568	491	355	145	7	0	0	0	0	0	3425
21	0	0	0	0	0	0	2	27	79	184	175	352	421	227	358	390	388	166	14	0	0	0	0	0	2783
22	0	0	0	0	0	0	14	156	387	606	786	897	936	898	779	610	399	168	15	0	0	0	0	0	6650
23	0	0	0	0	0	0	15	162	390	611	783	893	926	886	770	599	383	158	13	0	0	0	0	0	6591
24	0	0	0	0	0	0	18	120	276	395	243	324	359	461	573	471	156	63	11	0	0	0	0	0	3473
25	0	0	0	0	0	0	15	147	358	565	711	847	840	849	740	598	367	143	11	0	0	0	0	0	6191
26	0	0	0	0	0	0	18	138	387	586	756	864	897	785	763	592	382	157	14	0	0	0	0	0	6339
27	0	0	0	0	0	0	28	138	357	598	773	889	931	864	784	614	399	170	16	0	0	0	0	0	6561
28	0	0	0	0	0	0	20	127	284	579	715	862	922	882	771	609	393	169	17	0	0	0	0	0	6351
29	0	0	0	0	0	0	16	121	360	588	486	477	835	436	541	510	309	155	14	0	0	0	0	0	4848
30	0	0	0	0	0	0	29	173	422	598	786	865	935	885	795	608	387	151	19	0	0	0	0	0	6653
31	0	0	0	0	0	0	22	151	389	491	685	419	681	721	762	574	388	175	19	0	0	0	0	0	5477
Avg	0	0	0	0	0	0	9	99	264	424	536	608	674	664	581	452	282	115	8	0	0	0	0	0	4716
S D	0	0	0	0	0	0	8	50	124	192	245	289	297	249	228	190	129	54	6	0	0	0	0	0	1924
S/A	0	0	0	0	0	0	0.97	0.51	0.47	0.45	0.46	0.48	0.44	0.38	0.39	0.42	0.46	0.47	0.68	0	0	0	0	0	0.41
Min	0	0	0	0	0	0	0	14	24	33	106	94	76	117	74	36	22	7	0	0	0	0	0	0	892
Max	0	0	0	0	0	0	29	202	422	611	786	897	936	898	795	614	399	175	19	0	0	0	0	0	6653

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 28268 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 - March 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	0	10	123	501	588	867	923	948	930	889	828	649	332	11	0	0	0	0	0	7601
2	0	0	0	0	0	0	2	311	724	879	955	993	1004	985	947	887	750	464	12	0	0	0	0	0	8913
3	0	0	0	0	0	0	29	337	677	830	926	925	979	965	883	845	644	419	16	0	0	0	0	0	8473
4	0	0	0	0	0	0	13	332	659	804	887	935	947	927	872	773	655	385	208	0	0	0	0	0	8396
5	0	0	0	0	0	0	0	11	12	7	27	90	33	55	27	18	27	7	0	0	0	0	0	0	315
6	0	0	0	0	0	0	3	28	20	25	22	21	11	30	73	97	55	14	34	0	0	0	0	0	432
7	0	0	0	0	0	0	1	11	8	9	16	16	19	26	22	7	10	11	1	0	0	0	0	0	158
8	0	0	0	0	0	0	17	21	24	35	33	22	15	109	18	8	6	3	3	0	0	0	0	0	314
9	0	0	0	0	0	0	10	129	649	536	558	471	201	230	66	99	108	52	9	0	0	0	0	0	3118
10	0	0	0	0	0	0	19	422	725	766	146	94	581	983	967	902	788	526	45	0	0	0	0	0	6964
11	0	0	0	0	0	0	92	468	778	922	990	1017	1017	1012	985	917	798	535	40	0	0	0	0	0	9570
12	0	0	0	0	0	0	38	442	751	889	959	1004	1022	1013	977	910	796	520	41	0	0	0	0	0	9361
13	0	0	0	0	0	0	99	911	804	913	971	996	1005	983	942	863	753	495	39	0	0	0	0	0	9775
14	0	0	0	0	0	0	40	438	714	856	925	954	966	951	916	840	663	406	26	0	0	0	0	0	8695
15	0	0	0	0	0	0	26	359	646	781	836	866	873	852	820	758	646	378	33	0	0	0	0	0	7874
16	0	0	0	0	0	0	38	312	562	667	768	786	715	597	382	305	72	103	12	0	0	0	0	0	5319
17	0	0	0	0	0	0	6	18	17	24	31	20	23	14	11	9	6	6	10	0	0	0	0	0	194
18	0	0	0	0	0	0	5	18	15	14	32	12	20	46	43	20	13	16	158	0	0	0	0	0	412
19	0	0	0	0	0	0	27	36	28	38	82	172	161	57	54	51	25	14	1	0	0	0	0	0	748
20	0	0	0	0	0	0	11	37	142	74	19	18	43	85	69	63	75	55	2	0	0	0	0	0	692
21	0	0	0	0	0	0	4	12	21	29	24	53	56	29	51	61	48	50	9	0	0	0	0	0	444
22	0	0	0	0	0	0	35	138	61	23	20	19	14	22	25	19	6	20	5	0	0	0	0	0	409
23	0	0	0	0	0	0	26	12	0	0	4	8	8	16	20	21	10	17	13	0	0	0	0	0	155
24	0	0	0	0	0	0	38	51	59	68	35	42	45	65	87	57	29	26	17	0	0	0	0	0	621
25	0	0	0	0	0	0	19	5	1	16	50	40	72	38	41	52	33	17	30	0	0	0	0	0	415
26	0	0	0	0	0	0	12	1	2	3	14	17	28	37	25	20	12	4	0	0	0	0	0	0	176
27	0	0	0	0	0	0	43	21	15	10	16	18	16	43	29	23	19	17	1	0	0	0	0	0	270
28	0	0	0	0	0	0	15	37	38	10	25	22	14	17	24	18	12	10	1	0	0	0	0	0	243
29	0	0	0	0	0	0	25	51	12	34	41	42	45	28	49	46	36	20	8	0	0	0	0	0	437
30	0	0	0	0	0	0	11	33	75	11	20	24	26	16	19	16	9	13	13	0	0	0	0	0	284
31	0	0	0	0	0	0	30	36	40	54	62	52	69	58	28	26	18	16	10	0	0	0	0	0	500
Avg	0	0	0	0	0	0	24	167	283	320	334	344	354	362	334	308	251	160	26	0	0	0	0	0	3267
S D	0	0	0	0	0	0	23	210	323	378	409	421	425	426	410	380	323	202	44	0	0	0	0	0	3813
S/A	0	0	0	0	0	0	0.95	1.26	1.14	1.18	1.22	1.22	1.2	1.18	1.23	1.23	1.29	1.27	1.68	0	0	0	0	0	1.17
Min	0	0	0	0	0	0	0	1	0	0	4	8	8	14	11	7	6	3	0	0	0	0	0	0	155
Max	0	0	0	0	0	0	99	911	804	922	990	1017	1022	1013	985	917	798	535	208	0	0	0	0	0	9775

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 65352 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 - March 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	0	0	42	113	131	94	90	82	81	78	67	59	60	2	0	0	0	0	0	899
2	0	0	0	0	0	0	0	29	54	68	77	81	84	85	80	70	56	36	3	0	0	0	0	0	723
3	0	0	0	0	0	0	1	32	64	83	94	120	113	106	101	87	85	42	3	0	0	0	0	0	932
4	0	0	0	0	0	0	1	35	67	89	101	108	112	112	111	101	75	41	3	0	0	0	0	0	955
5	0	0	0	0	0	0	0	14	36	30	146	294	263	351	190	121	99	14	0	0	0	0	0	0	1558
6	0	0	0	0	0	0	1	28	62	121	119	128	68	192	348	212	117	50	3	0	0	0	0	0	1447
7	0	0	0	0	0	0	0	13	22	39	95	109	131	176	127	32	33	20	1	0	0	0	0	0	799
8	0	0	0	0	0	0	2	27	76	161	224	140	120	299	122	35	19	6	0	0	0	0	0	0	1233
9	0	0	0	0	0	0	2	51	99	160	170	259	432	341	231	293	146	65	5	0	0	0	0	0	2254
10	0	0	0	0	0	0	3	38	72	114	325	371	239	105	87	77	61	38	5	0	0	0	0	0	1535
11	0	0	0	0	0	0	3	34	54	64	70	76	81	80	74	68	56	36	4	0	0	0	0	0	700
12	0	0	0	0	0	0	4	39	64	79	87	89	89	87	82	74	59	37	4	0	0	0	0	0	796
13	0	0	0	0	0	0	5	52	60	68	79	85	86	88	85	77	64	38	5	0	0	0	0	0	792
14	0	0	0	0	0	0	5	42	65	78	89	99	101	100	93	84	79	46	5	0	0	0	0	0	886
15	0	0	0	0	0	0	5	48	80	100	124	137	143	145	134	112	84	50	6	0	0	0	0	0	1167
16	0	0	0	0	0	0	6	58	100	149	152	190	244	304	318	266	200	91	10	0	0	0	0	0	2088
17	0	0	0	0	0	0	3	27	61	129	205	148	171	105	67	44	21	10	4	0	0	0	0	0	995
18	0	0	0	0	0	0	2	29	53	65	173	84	141	289	251	110	40	27	2	0	0	0	0	0	1266
19	0	0	0	0	0	0	7	56	102	182	369	523	645	? 579	? 346	237	115	39	3	0	0	0	0	0	3204
20	0	0	0	0	0	0	4	80	158	223	131	139	304	533	? 438	? 384	? 326	132	7	0	0	0	0	0	2860
21	0	0	0	0	0	0	2	24	71	167	158	309	338	203	321	354	342	? 146	13	0	0	0	0	0	2448
22	0	0	0	0	0	0	11	128	315	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? 135	? 15	0	0	0	0	0	604 ?
23	0	0	0	0	0	0	14	135	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? 155	14	0	0	0	0	0	317 ?
24	0	0	0	0	0	0	19	108	250	354	217	289	321	408	432	? 386	? 143	57	11	0	0	0	0	0	2997
25	0	0	0	0	0	0	15	148	342	? 532	? 532	? 585	? 585	? 585	? 585	? 539	? 343	139	11	0	0	0	0	0	2655 ?
26	0	0	0	0	0	0	17	142	261	? ?	? ?	? ?	? ?	? 528	? ?	? ?	? 312	? 159	15	0	0	0	0	0	1433 ?
27	0	0	0	0	0	0	27	133	415	? ?	? ?	? ?	? ?	? 613	? ?	? ?	? ?	? 165	16	0	0	0	0	0	1369 ?
28	0	0	0	0	0	0	21	117	227	? 185	? 412	? 456	? ?	? ?	? ?	? ?	? ?	? 167	17	0	0	0	0	0	1602 ?
29	0	0	0	0	0	0	15	108	306	? 510	? 355	? 401	495	? 252	? 325	? 390	? 268	? 150	14	0	0	0	0	0	3589 ?
30	0	0	0	0	0	0	31	141	354	? 567	? ?	? ?	? ?	? ?	? ?	? ?	? 311	? 147	20	0	0	0	0	0	1571 ?
31	0	0	0	0	0	0	20	135	312	? 339	? 517	? 374	558	? 542	? 575	? 439	? 355	? 170	19	0	0	0	0	0	4357 ?
Avg	0	0	0	0	0	0	8	68	144	164	197	204	238	258	209	186	143	80	8	0	0	0	0	0	1614
S/D	0	0	0	0	0	0	8	45	115	133	134	132	174	175	143	148	114	56	6	0	0	0	0	0	969
S/A	0	0	0	0	0	0	1.06	0.67	0.8	0.81	0.68	0.65	0.73	0.68	0.68	0.79	0.79	0.7	0.77	0	0	0	0	0	0.6
Min	0	0	0	0	0	0	0	13	22	30	70	76	68	80	67	32	19	6	0	0	0	0	0	0	317
Max	0	0	0	0	0	0	31	148	415	567	532	523	645	613	575	539	355	170	20	0	0	0	0	0	4357

Daylight Data Recovery: 0% missing; 12% exceed the 15% QC threshold -- 28268 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