

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - February 1997

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	25	178	379	544	655	698	669	571	411	219	44	0	0	0	0	0	0	4394
2	0	0	0	0	0	0	0	9	120	248	189	444	535	205	282	273	87	42	0	0	0	0	0	0	2434
3	0	0	0	0	0	0	0	15	132	299	491	550	511	547	493	395	207	44	0	0	0	0	0	0	3683
4	0	0	0	0	0	0	0	12	93	229	322	388	405	225	299	257	153	30	0	0	0	0	0	0	2413
5	0	0	0	0	0	0	0	27	158	267	524	636	660	360	236	262	193	42	0	0	0	0	0	0	3365
6	0	0	0	0	0	0	0	16	121	327	546	649	699	669	583	416	234	61	0	0	0	0	0	0	4320
7	0	0	0	0	0	0	0	10	77	202	310	295	393	483	501	302	191	52	0	0	0	0	0	0	2815
8	0	0	0	0	0	0	0	3	26	98	73	152	343	520	438	311	268	60	0	0	0	0	0	0	2293
9	0	0	0	0	0	0	0	14	150	278	263	439	438	314	299	158	85	21	0	0	0	0	0	0	2459
10	0	0	0	0	0	0	0	14	46	146	244	228	199	119	105	76	38	14	0	0	0	0	0	0	1229
11	0	0	0	0	0	0	0	10	66	193	461	421	437	477	517	462	262	67	0	0	0	0	0	0	3373
12	0	0	0	0	0	0	0	51	184	395	575	695	739	718	563	462	180	29	0	0	0	0	0	0	4591
13	0	0	0	0	0	0	0	4	20	24	27	39	44	45	25	12	14	4	0	0	0	0	0	0	258
14	0	0	0	0	0	0	0	3	19	38	73	72	106	164	186	121	49	15	0	0	0	0	0	0	845
15	0	0	0	0	0	0	0	15	61	68	142	250	160	398	334	203	142	54	0	0	0	0	0	0	1826
16	0	0	0	0	0	0	0	32	171	394	477	611	701	720	618	488	283	83	0	0	0	0	0	0	4580
17	0	0	0	0	0	0	0	50	192	406	617	737	782	757	661	502	297	91	1	0	0	0	0	0	5092
18	0	0	0	0	0	0	0	60	242	433	569	667	724	508	544	322	139	82	1	0	0	0	0	0	4289
19	0	0	0	0	0	0	0	53	216	407	598	731	781	736	657	450	259	57	0	0	0	0	0	0	4944
20	0	0	0	0	0	0	0	34	183	462	539	596	673	696	561	379	277	74	1	0	0	0	0	0	4474
21	0	0	0	0	0	0	0	48	216	464	614	518	693	738	627	460	272	89	3	0	0	0	0	0	4743
22	0	0	0	0	0	0	0	8	22	116	170	148	139	120	92	114	60	40	2	0	0	0	0	0	1031
23	0	0	0	0	0	0	0	62	248	452	570	591	587	501	528	269	138	56	1	0	0	0	0	0	4002
24	0	0	0	0	0	0	0	19	89	250	301	348	277	184	181	105	59	18	0	0	0	0	0	0	1832
25	0	0	0	0	0	0	0	4	40	44	132	203	244	332	178	97	43	14	0	0	0	0	0	0	1331
26	0	0	0	0	0	0	0	23	68	229	309	361	433	455	432	426	309	100	2	0	0	0	0	0	3147
27	0	0	0	0	0	0	0	73	165	415	638	607	804	806	640	489	314	94	2	0	0	0	0	0	5048
28	0	0	0	0	0	0	1	57	192	401	549	498	743	631	625	409	184	60	2	0	0	0	0	0	4353
Avg	0	0	0	0	0	0	0	27	125	274	388	447	498	468	421	308	177	51	1	0	0	0	0	0	3185
SD	0	0	0	0	0	0	0	21	71	140	194	205	232	225	193	146	92	27	1	0	0	0	0	0	1424
S/A	0	0	0	0	0	0	2.77	0.77	0.57	0.51	0.5	0.46	0.47	0.48	0.46	0.47	0.52	0.52	1.43	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	3	19	24	27	39	44	45	25	12	14	4	0	0	0	0	0	0	258
Max	0	0	0	0	0	0	1	73	248	464	638	737	804	806	661	502	314	100	3	0	0	0	0	0	5092

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 7544 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 - February 1997**

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	153	584	814	912	957	971	960	913	804	617	194	0	0	0	0	0	0	7879
2	0	0	0	0	0	0	0	8	135	165	37	154	321	27	61	149	22	32	0	0	0	0	0	0	1112
3	0	0	0	0	0	0	0	18	139	373	629	559	376	395	527	533	290	59	0	0	0	0	0	0	3898
4	0	0	0	0	0	0	0	12	34	51	50	56	83	41	62	66	36	18	0	0	0	0	0	0	509
5	0	0	0	0	0	0	0	91	271	495	813	820	686	192	57	166	217	33	0	0	0	0	0	0	3842
6	0	0	0	0	0	0	0	51	106	396	801	789	841	823	781	598	449	152	5	0	0	0	0	0	5792
7	0	0	0	0	0	0	0	11	26	26	69	40	139	374	563	211	292	71	7	0	0	0	0	0	1830
8	0	0	0	0	0	0	0	3	9	21	12	19	164	381	450	423	544	154	1	0	0	0	0	0	2182
9	0	0	0	0	0	0	0	17	104	169	72	68	135	34	59	29	25	14	0	0	0	0	0	0	726
10	0	0	0	0	0	0	0	15	16	30	39	30	24	14	15	14	12	10	4	0	0	0	0	0	226
11	0	0	0	0	0	0	0	33	24	34	359	202	207	305	583	774	624	252	0	0	0	0	0	0	3398
12	0	0	0	0	0	0	0	231	382	685	831	887	896	896	736	805	268	21	4	0	0	0	0	0	6641
13	0	0	0	0	0	0	0	2	7	5	5	6	6	6	4	2	5	4	2	0	0	0	0	0	54
14	0	0	0	0	0	0	0	2	7	8	11	10	14	22	28	22	14	10	0	0	0	0	0	0	148
15	0	0	0	0	0	0	0	14	23	15	24	29	23	71	77	43	46	32	0	0	0	0	0	0	395
16	0	0	0	0	0	0	0	26	252	445	370	530	697	803	775	815	687	338	0	0	0	0	0	0	5737
17	0	0	0	0	0	0	0	213	456	717	899	953	965	957	930	871	727	385	7	0	0	0	0	0	8081
18	0	0	0	0	0	0	0	247	608	758	743	659	715	171	316	170	35	122	8	0	0	0	0	0	4550
19	0	0	0	0	0	0	0	173	479	678	843	909	912	815	818	605	415	103	11	0	0	0	0	0	6761
20	0	0	0	0	0	0	0	34	120	602	472	332	498	675	481	264	404	195	0	0	0	0	0	0	4077
21	0	0	0	0	0	0	0	99	279	609	784	249	555	789	744	616	450	143	13	0	0	0	0	0	5330
22	0	0	0	0	0	0	0	14	6	27	25	21	22	19	15	21	16	24	7	0	0	0	0	0	218
23	0	0	0	0	0	0	0	262	525	673	554	349	219	166	302	126	36	34	6	0	0	0	0	0	3252
24	0	0	0	0	0	0	0	21	21	53	37	46	35	24	29	20	17	11	4	0	0	0	0	0	319
25	0	0	0	0	0	0	0	4	12	8	22	32	35	36	28	16	14	8	2	0	0	0	0	0	217
26	0	0	0	0	0	0	0	22	23	44	56	51	69	118	207	321	546	336	3	0	0	0	0	0	1795
27	0	0	0	0	0	0	12	123	71	625	824	580	906	891	767	728	654	258	6	0	0	0	0	0	6445
28	0	0	0	0	0	0	6	63	122	367	352	148	558	362	468	260	41	38	5	0	0	0	0	0	2790
Avg	0	0	0	0	0	0	1	70	173	318	380	339	396	370	386	338	268	109	3	0	0	0	0	0	3150
S D	0	0	0	0	0	0	3	82	193	291	352	342	349	351	324	305	255	113	4	0	0	0	0	0	2582
S/A	0	0	0	0	0	0	3.81	1.17	1.12	0.92	0.93	1.01	0.88	0.95	0.84	0.9	0.95	1.04	1.07	0	0	0	0	0	0.82
Min	0	0	0	0	0	0	0	2	6	5	5	6	6	6	4	2	5	4	0	0	0	0	0	0	54
Max	0	0	0	0	0	0	12	262	608	814	912	957	971	960	930	871	727	385	13	0	0	0	0	0	8081

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 7544 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 - February 1997

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	43	56	62	67	68	66	65	63	49	21	0	0	0	0	0	0	571
2	0	0	0	0	0	0	0	9	84	188	169	348	326	187	248	202	81	39	0	0	0	0	0	0	1882
3	0	0	0	0	0	0	0	14	94	139	156	204	264	297	202	158	121	38	0	0	0	0	0	0	1687
4	0	0	0	0	0	0	0	11	85	208	294	353	350	199	264	228	142	28	0	0	0	0	0	0	2163
5	0	0	0	0	0	0	0	19	83	69	83	121	204	235	204	187	131	37	0	0	0	0	0	0	1372
6	0	0	0	0	0	0	0	13	100	151	109	149	137	135	135	143	105	39	0	0	0	0	0	0	1218
7	0	0	0	0	0	0	0	10	70	191	273	270	300	238	176	201	101	42	0	0	0	0	0	0	1871
8	0	0	0	0	0	0	0	3	24	89	66	140	232	272	172	118	105	38	0	0	0	0	0	0	1257
9	0	0	0	0	0	0	0	13	122	225	224	395	347	292	264	144	77	19	0	0	0	0	0	0	2124
10	0	0	0	0	0	0	0	12	42	133	222	208	182	110	97	70	35	12	0	0	0	0	0	0	1123
11	0	0	0	0	0	0	0	9	59	179	255	291	294	272	178	96	68	30	0	0	0	0	0	0	1731
12	0	0	0	0	0	0	0	29	87	96	103	113	118	116	125	79	86	27	0	0	0	0	0	0	980
13	0	0	0	0	0	0	0	4	18	21	25	35	40	41	22	10	13	4	0	0	0	0	0	0	234
14	0	0	0	0	0	0	0	2	18	35	66	66	96	149	169	110	45	14	0	0	0	0	0	0	769
15	0	0	0	0	0	0	0	13	55	61	128	231	144	350	286	183	128	49	0	0	0	0	0	0	1628
16	0	0	0	0	0	0	0	29	98	198	260	254	206	167	144	88	57	29	0	0	0	0	0	0	1529
17	0	0	0	0	0	0	0	26	64	79	88	92	94	93	85	71	56	30	1	0	0	0	0	0	778
18	0	0	0	0	0	0	0	32	70	87	133	214	211	388	346	231	128	65	1	0	0	0	0	0	1906
19	0	0	0	0	0	0	0	35	76	92	95	107	123	163	145	144	119	37	0	0	0	0	0	0	1137
20	0	0	0	0	0	0	0	31	146	213	259	366	312	220	257	246	147	40	1	0	0	0	0	0	2237
21	0	0	0	0	0	0	0	34	128	178	141	347	287	178	156	144	113	66	3	0	0	0	0	0	1776
22	0	0	0	0	0	0	0	7	20	103	155	133	123	107	83	103	54	36	2	0	0	0	0	0	927
23	0	0	0	0	0	0	0	27	85	135	232	348	424	382	333	203	125	51	1	0	0	0	0	0	2346
24	0	0	0	0	0	0	0	17	82	225	278	316	250	167	163	95	53	16	0	0	0	0	0	0	1663
25	0	0	0	0	0	0	0	4	36	40	118	180	218	305	159	88	38	13	0	0	0	0	0	0	1200
26	0	0	0	0	0	0	0	21	60	208	273	325	381	367	295	265	111	38	2	0	0	0	0	0	2347
27	0	0	0	0	0	0	0	56	142	98	119	190	119	152	134	104	74	40	2	0	0	0	0	0	1229
28	0	0	0	0	0	0	1	51	148	218	326	390	319	362	317	267	169	54	2	0	0	0	0	0	2623
Avg	0	0	0	0	0	0	0	19	76	133	168	223	220	215	187	144	90	34	1	0	0	0	0	0	1511
S D	0	0	0	0	0	0	0	14	37	64	84	109	102	99	83	67	39	15	1	0	0	0	0	0	580
S/A	0	0	0	0	0	0	2.81	0.7	0.49	0.48	0.5	0.49	0.46	0.46	0.45	0.46	0.43	0.44	1.37	0	0	0	0	0	0.38
Min	0	0	0	0	0	0	0	2	18	21	25	35	40	41	22	10	13	4	0	0	0	0	0	0	234
Max	0	0	0	0	0	0	1	56	148	225	326	395	424	388	346	267	169	66	3	0	0	0	0	0	2623

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 7544 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