

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - November 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	1	19	119	392	619	508	638	486	501	213	110	6	0	0	0	0	0	0	3612
2	0	0	0	0	0	0	1	77	214	483	632	716	725	659	529	351	146	7	0	0	0	0	0	0	4541
3	0	0	0	0	0	0	2	99	288	488	554	601	706	586	484	342	133	7	0	0	0	0	0	0	4290
4	0	0	0	0	0	0	2	94	285	473	618	696	706	645	519	343	142	5	0	0	0	0	0	0	4528
5	0	0	0	0	0	0	3	78	284	446	626	593	590	651	400	292	112	4	0	0	0	0	0	0	4078
6	0	0	0	0	0	0	2	51	144	408	441	467	364	431	305	294	107	1	0	0	0	0	0	0	3015
7	0	0	0	0	0	0	0	16	35	116	165	164	247	328	220	73	13	0	0	0	0	0	0	0	1379
8	0	0	0	0	0	0	1	76	250	435	533	577	347	622	361	120	31	1	0	0	0	0	0	0	3354
9	0	0	0	0	0	0	1	100	264	447	587	661	674	618	489	307	121	9	0	0	0	0	0	0	4278
10	0	0	0	0	0	0	1	68	222	447	571	652	659	599	350	198	55	2	0	0	0	0	0	0	3824
11	0	0	0	0	0	0	1	75	242	418	548	627	641	588	466	299	152	6	0	0	0	0	0	0	4064
12	0	0	0	0	0	0	1	37	150	277	117	77	101	73	33	13	8	1	0	0	0	0	0	0	888
13	0	0	0	0	0	0	0	7	18	52	87	75	73	114	73	28	19	2	0	0	0	0	0	0	547
14	0	0	0	0	0	0	0	43	118	166	396	632	574	579	463	267	92	3	0	0	0	0	0	0	3333
15	0	0	0	0	0	0	0	64	243	427	565	643	650	591	465	297	109	3	0	0	0	0	0	0	4057
16	0	0	0	0	0	0	0	34	119	416	573	651	663	605	483	310	114	2	0	0	0	0	0	0	3971
17	0	0	0	0	0	0	0	66	244	437	589	671	686	626	499	319	118	1	0	0	0	0	0	0	4256
18	0	0	0	0	0	0	0	66	202	410	535	617	611	476	449	217	71	2	0	0	0	0	0	0	3654
19	0	0	0	0	0	0	1	16	50	131	169	220	327	330	293	233	102	1	0	0	0	0	0	0	1871
20	0	0	0	0	0	0	0	57	201	369	545	621	652	587	462	301	108	1	0	0	0	0	0	0	3904
21	0	0	0	0	0	0	0	47	208	359	404	363	433	545	408	224	83	2	0	0	0	0	0	0	3077
22	0	0	0	0	0	0	0	44	231	364	516	590	535	457	318	170	80	1	0	0	0	0	0	0	3307
23	0	0	0	0	0	0	0	10	45	187	327	509	544	552	437	272	72	2	0	0	0	0	0	0	2959
24	0	0	0	0	0	0	0	46	237	399	498	624	628	591	457	282	99	0	0	0	0	0	0	0	3861
25	0	0	0	0	0	0	0	53	214	391	539	624	643	585	467	290	102	2	0	0	0	0	0	0	3911
26	0	0	0	0	0	0	0	34	152	339	511	596	452	432	430	279	94	1	0	0	0	0	0	0	3320
27	0	0	0	0	0	0	0	39	190	371	515	603	620	567	457	265	49	1	0	0	0	0	0	0	3677
28	0	0	0	0	0	0	0	32	144	320	448	544	533	515	280	195	47	1	0	0	0	0	0	0	3059
29	0	0	0	0	0	0	0	21	150	248	374	268	241	161	82	55	21	0	0	0	0	0	0	0	1623
30	0	0	0	0	0	0	0	10	73	71	135	147	134	167	208	49	35	3	0	0	0	0	0	0	1032
Avg	0	0	0	0	0	0	1	49	178	343	458	511	513	492	380	230	85	3	0	0	0	0	0	0	3242
S D	0	0	0	0	0	0	1	26	77	125	163	191	191	166	135	98	41	2	0	0	0	0	0	0	1112
S/A	0	0	0	0	0	0	1.19	0.54	0.43	0.36	0.36	0.37	0.37	0.34	0.36	0.43	0.48	0.86	0	0	0	0	0	0	0.34
Min	0	0	0	0	0	0	0	7	18	52	87	75	73	73	33	13	8	0	0	0	0	0	0	0	547
Max	0	0	0	0	0	0	3	100	288	488	632	716	725	659	529	351	152	9	0	0	0	0	0	0	4541

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 12516 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 - November 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	8	9	29	288	833	281	636	498	728	234	78	7	0	0	0	0	0	0	3629
2	0	0	0	0	0	0	24	135	297	843	935	975	978	948	877	520	39	2	0	0	0	0	0	0	6573
3	0	0	0	0	0	0	13	425	708	833	607	520	888	680	702	763	488	32	0	0	0	0	0	0	6660
4	0	0	0	0	0	0	4	390	703	850	923	951	955	939	888	783	536	65	0	0	0	0	0	0	7987
5	0	0	0	0	0	0	5	104	615	639	863	517	443	809	405	486	269	8	0	0	0	0	0	0	5163
6	0	0	0	0	0	0	9	28	36	378	265	313	144	235	128	422	334	8	0	0	0	0	0	0	2302
7	0	0	0	0	0	0	2	9	9	18	22	21	29	41	33	16	5	0	0	0	0	0	0	0	204
8	0	0	0	0	0	0	3	191	521	707	651	540	98	715	381	26	11	1	0	0	0	0	0	0	3848
9	0	0	0	0	0	0	5	460	662	826	903	925	934	917	833	661	377	24	0	0	0	0	0	0	7526
10	0	0	0	0	0	0	5	280	543	849	884	922	921	891	200	90	24	32	0	0	0	0	0	0	5641
11	0	0	0	0	0	0	6	261	557	718	799	840	849	837	740	578	383	29	0	0	0	0	0	0	6596
12	0	0	0	0	0	0	5	23	48	178	12	9	11	8	4	2	4	3	0	0	0	0	0	0	306
13	0	0	0	0	0	0	0	4	5	10	13	10	8	16	12	7	9	2	0	0	0	0	0	0	95
14	0	0	0	0	0	0	1	27	33	35	256	760	732	775	714	608	299	1	0	0	0	0	0	0	4242
15	0	0	0	0	0	0	3	241	623	786	916	917	896	825	700	402	3	0	0	0	0	0	0	0	7190
16	0	0	0	0	0	0	3	22	85	776	913	947	952	935	881	757	439	3	0	0	0	0	0	0	6713
17	0	0	0	0	0	0	3	323	670	225	950	30	13	4	0	0	0	0	0	0	0	0	0	0	2218
18	0	0	0	0	0	0	3	20	28	17	760	53	37	27	3	2	5	0	0	0	0	0	0	0	954
19	0	0	0	0	0	0	0	18	12	26	24	31	44	40	28	6	1	72	0	0	0	0	0	0	301
20	0	0	0	0	0	0	0	28	5	8	873	69	25	1	0	0	8	30	0	0	0	0	0	0	1048
21	0	0	0	0	0	0	0	22	13	20	331	30	45	2	1	12	7	4	0	0	0	0	0	0	487
22	0	0	0	0	0	0	0	15	67	68	794	82	19	11	8	15	4	9	0	0	0	0	0	0	1093
23	0	0	0	0	0	0	0	5	12	24	156	82	40	14	2	0	13	6	0	0	0	0	0	0	355
24	0	0	0	0	0	0	0	41	24	53	522	108	23	7	1	0	0	8	0	0	0	0	0	0	787
25	0	0	0	0	0	0	0	48	9	3	823	140	17	8	1	0	2	6	0	0	0	0	0	0	1056
26	0	0	0	0	0	0	0	16	9	6	777	198	546	54	4	0	0	0	0	0	0	0	0	0	1610
27	0	0	0	0	0	0	0	3	4	0	8	666	922	199	0	0	12	0	0	0	0	0	0	0	1814
28	0	0	0	0	0	0	0	13	109	232	39	27	10	7	6	9	12	0	0	0	0	0	0	0	464
29	0	0	0	0	0	0	0	12	61	61	45	32	26	19	13	13	9	1	0	0	0	0	0	0	292
30	0	0	0	0	0	0	0	164	14	14	19	21	18	23	26	11	20	5	0	0	0	0	0	0	334
Avg	0	0	0	0	0	0	3	111	217	316	529	367	376	352	281	224	126	12	0	0	0	0	0	0	2916
S D	0	0	0	0	0	0	5	139	273	344	369	369	405	394	355	297	180	18	0	0	0	0	0	0	2706
S/A	0	0	0	0	0	0	1.45	1.25	1.26	1.09	0.7	1	1.08	1.12	1.26	1.32	1.43	1.51	0	0	0	0	0	0	0.93
Min	0	0	0	0	0	0	0	3	4	0	8	9	8	1	0	0	0	0	0	0	0	0	0	0	95
Max	0	0	0	0	0	0	24	460	708	850	950	975	978	948	888	783	536	72	0	0	0	0	0	0	7987

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 49600 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: XXXXXXX
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 - November 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	1	18	109	238	107	316	202	168	110	111	90	6	0	0	0	0	0	0	1476
2	0	0	0	0	0	0	1	50	105	61	59	58	58	58	60	140	132	7	0	0	0	0	0	0	788
3	0	0	0	0	0	0	2	27	45	75	189	253	104	156	118	46	30	4	0	0	0	0	0	0	1047
4	0	0	0	0	0	0	2	28	46	54	60	62	62	57	51	43	28	3	0	0	0	0	0	0	495
5	0	0	0	0	0	0	2	64	106	132	108	251	294	147	185	104	47	4	0	0	0	0	0	0	1445
6	0	0	0	0	0	0	2	47	132	218	284	262	269	285	240	127	35	2	0	0	0	0	0	0	1904
7	0	0	0	0	0	0	0	14	32	107	153	151	228	303	203	67	12	0	0	0	0	0	0	0	1271
8	0	0	0	0	0	0	1	42	78	97	147	228	283	188	165	110	29	1	0	0	0	0	0	0	1369
9	0	0	0	0	0	0	1	30	50	55	58	63	63	61	65	61	45	7	0	0	0	0	0	0	559
10	0	0	0	0	0	0	1	27	44	49	57	59	60	61	244	162	50	2	0	0	0	0	0	0	816
11	0	0	0	0	0	0	1	36	66	82	87	90	92	85	93	88	77	6	0	0	0	0	0	0	803
12	0	0	0	0	0	0	1	35	133	198	110	72	94	68	31	12	8	1	0	0	0	0	0	0	761
13	0	0	0	0	0	0	0	7	16	48	80	68	67	104	67	26	17	2	0	0	0	0	0	0	502
14	0	0	0	0	0	0	0	39	107	150	249	155	108	121	107	57	36	3	0	0	0	0	0	0	1133
15	0	0	0	0	0	0	0	27	55	71	72	70	69	64	60	51	34	3	0	0	0	0	0	0	576
16	0	0	0	0	0	0	0	31	94	65	63	63	64	60	53	46	32	2	0	0	0	0	0	0	572
17	0	0	0	0	0	0	0	23	45	142 ?	61	477 ?	?	?	?	?	77 ?	2	0	0	0	0	0	0	827 ?
18	0	0	0	0	0	0	0	63	157 ?	417 ?	115	353 ?	501 ?	361 ?	?	145 ?	62	3	0	0	0	0	0	0	2176 ?
19	0	0	0	0	0	0	0	16	46	120	155	201	300	306	279	180 ?	98	1	0	0	0	0	0	0	1703
20	0	0	0	0	0	0	0	52	163 ?	?	69	178 ?	?	?	?	?	81 ?	1	0	0	0	0	0	0	544 ?
21	0	0	0	0	0	0	0	45	179 ?	331 ?	228	345	359 ?	?	262 ?	197 ?	71	2	0	0	0	0	0	0	2018 ?
22	0	0	0	0	0	0	0	43	163 ?	?	87	100 ?	434 ?	371	?	277 ?	146	65	1	0	0	0	0	0	1688 ?
23	0	0	0	0	0	0	0	10	42	176	242	385 ?	467 ?	?	343 ?	190 ?	71	2	0	0	0	0	0	0	1929 ?
24	0	0	0	0	0	0	0	44	166 ?	329 ?	200	295 ?	497 ?	?	?	201 ?	89	1	0	0	0	0	0	0	1822 ?
25	0	0	0	0	0	0	0	49	156 ?	?	69	159 ?	?	?	?	?	83 ?	2	0	0	0	0	0	0	518 ?
26	0	0	0	0	0	0	0	32	120 ?	?	70	147 ?	123	267 ?	337 ?	?	81 ?	1	0	0	0	0	0	0	1178 ?
27	0	0	0	0	0	0	0	40	156 ?	?	?	92 ?	70	157 ?	?	93 ?	48	1	0	0	0	0	0	0	656 ?
28	0	0	0	0	0	0	0	31	111	167 ?	388 ?	468 ?	495 ?	419 ?	235 ?	145 ?	45	1	0	0	0	0	0	0	2506 ?
29	0	0	0	0	0	0	0	20	131	223	321	250	226	150	77	51	20	0	0	0	0	0	0	0	1470
30	0	0	0	0	0	0	0	9	70	66	125	135	123	154	173	45	33	3	0	0	0	0	0	0	935
Avg	0	0	0	0	0	0	1	33	97	147	138	194	212	174	160	102	54	2	0	0	0	0	0	0	1183
S D	0	0	0	0	0	0	1	15	48	98	88	123	155	111	96	56	29	2	0	0	0	0	0	0	570
S/A	0	0	0	0	0	0	1.24	0.45	0.49	0.67	0.63	0.64	0.73	0.64	0.6	0.55	0.53	0.76	0	0	0	0	0	0	0.48
Min	0	0	0	0	0	0	0	7	16	48	57	58	58	57	31	12	8	0	0	0	0	0	0	0	495
Max	0	0	0	0	0	0	2	64	179	417	388	477	501	419	343	201	132	7	0	0	0	0	0	0	2506

Daylight Data Recovery: 0% missing; 6% exceed the 15% QC threshold -- 12516 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