

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - September 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	41	198	307	507	445	635	714	619	659	525	313	168	17	0	0	0	0	0	5149
2	0	0	0	0	0	0	29	84	157	214	277	543	723	668	751	398	247	143	12	0	0	0	0	0	4246
3	0	0	0	0	0	0	27	125	383	623	681	827	913	873	784	596	343	147	14	0	0	0	0	0	6335
4	0	0	0	0	0	0	21	56	182	424	719	840	750	807	720	452	310	150	18	0	0	0	0	0	5449
5	0	0	0	0	0	0	26	245	477	683	787	827	877	895	796	633	417	181	22	0	0	0	0	0	6865
6	0	0	0	0	0	0	54	206	437	666	826	908	967	902	787	565	386	166	18	0	0	0	0	0	6888
7	0	0	0	0	0	0	47	261	442	654	823	936	994	900	774	604	385	160	16	0	0	0	0	0	6997
8	0	0	0	0	0	0	47	216	430	632	785	873	902	896	698	571	337	123	14	0	0	0	0	0	6523
9	0	0	0	0	0	0	40	205	400	406	574	785	661	687	608	531	336	117	6	0	0	0	0	0	5355
10	0	0	0	0	0	0	34	212	406	602	653	715	535	186	162	303	223	95	14	0	0	0	0	0	4140
11	0	0	0	0	0	0	37	133	260	507	754	720	771	579	227	181	252	64	12	0	0	0	0	0	4496
12	0	0	0	0	0	0	10	202	321	600	631	548	390	827	396	393	342	133	9	0	0	0	0	0	4801
13	0	0	0	0	0	0	34	208	342	534	511	778	899	783	744	558	431	114	13	0	0	0	0	0	5950
14	0	0	0	0	0	0	37	154	397	489	337	665	420	96	239	151	215	166	13	0	0	0	0	0	3380
15	0	0	0	0	0	0	30	128	232	405	641	820	792	724	664	440	61	41	10	0	0	0	0	0	4989
16	0	0	0	0	0	0	12	141	383	529	351	673	312	487	524	229	79	27	14	0	0	0	0	0	3760
17	0	0	0	0	0	0	21	122	344	524	731	754	449	469	237	415	227	104	5	0	0	0	0	0	4400
18	0	0	0	0	0	0	22	86	246	483	542	684	850	395	283	152	96	64	8	0	0	0	0	0	3910
19	0	0	0	0	0	0	28	174	360	549	697	679	786	733	394	383	274	87	3	0	0	0	0	0	5147
20	0	0	0	0	0	0	29	144	322	532	649	786	828	707	562	454	172	79	3	0	0	0	0	0	5268
21	0	0	0	0	0	0	33	174	328	548	608	797	787	604	416	219	127	45	1	0	0	0	0	0	4688
22	0	0	0	0	0	0	18	116	221	297	341	358	445	359	426	235	135	38	1	0	0	0	0	0	2991
23	0	0	0	0	0	0	27	163	315	491	688	741	728	626	636	505	198	50	1	0	0	0	0	0	5169
24	0	0	0	0	0	0	12	88	185	312	486	519	710	516	371	407	212	47	6	0	0	0	0	0	3871
25	0	0	0	0	0	0	7	53	251	197	363	580	195	217	260	167	83	23	1	0	0	0	0	0	2397
26	0	0	0	0	0	0	4	45	180	438	347	444	332	228	168	151	81	43	2	0	0	0	0	0	2463
27	0	0	0	0	0	0	4	32	76	135	129	195	178	86	54	62	32	19	1	0	0	0	0	0	1003
28	0	0	0	0	0	0	12	143	350	435	730	463	676	561	540	338	167	77	1	0	0	0	0	0	4493
29	0	0	0	0	0	0	22	170	376	560	716	793	675	718	671	484	264	72	0	0	0	0	0	0	5522
30	0	0	0	0	0	0	24	188	411	609	761	850	866	810	682	502	281	75	0	0	0	0	0	0	6061
Avg	0	0	0	0	0	0	26	149	317	486	586	691	671	599	508	387	234	94	9	0	0	0	0	0	4757
S/D	0	0	0	0	0	0	13	60	97	138	183	169	226	244	222	162	111	49	7	0	0	0	0	0	1394
S/A	0	0	0	0	0	0	0.48	0.4	0.31	0.28	0.31	0.24	0.34	0.41	0.44	0.42	0.48	0.52	0.77	0	0	0	0	0	0.29
Min	0	0	0	0	0	0	4	32	76	135	129	195	178	86	54	62	32	19	0	0	0	0	0	0	1003
Max	0	0	0	0	0	0	54	261	477	683	826	936	994	902	796	633	431	181	22	0	0	0	0	0	6997

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4465 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 - September 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	47	85	94	182	123	296	351	257	344	290	201	184	12	0	0	0	0	0	2466
2	0	0	0	0	0	0	48	40	40	48	35	116	335	380	673	270	178	165	15	0	0	0	0	0	2345
3	0	0	0	0	0	0	29	62	346	568	533	710	850	832	820	712	451	246	49	0	0	0	0	0	6208
4	0	0	0	0	0	0	34	25	31	119	379	497	252	460	508	217	225	230	43	0	0	0	0	0	3020
5	0	0	0	0	0	0	65	576	813	904	837	702	758	864	910	873	776	519	97	0	0	0	0	0	8693
6	0	0	0	0	0	0	216	515	737	880	931	756	855	933	904	743	672	446	69	0	0	0	0	0	8656
7	0	0	0	0	0	0	184	792	760	877	916	952	939	916	861	805	684	425	81	0	0	0	0	0	9192
8	0	0	0	0	0	0	135	424	637	759	814	822	824	787	686	662	435	183	32	0	0	0	0	0	7199
9	0	0	0	0	0	0	29	202	286	82	126	385	253	359	341	482	418	145	5	0	0	0	0	0	3112
10	0	0	0	0	0	0	40	280	433	454	373	285	112	29	22	100	78	45	82	0	0	0	0	0	2333
11	0	0	0	0	0	0	64	55	99	394	676	433	533	304	47	44	92	28	16	0	0	0	0	0	2786
12	0	0	0	0	0	0	16	382	379	654	465	351	253	745	225	346	507	251	12	0	0	0	0	0	4588
13	0	0	0	0	0	0	113	392	433	332	81	469	675	576	642	611	431	61	19	0	0	0	0	0	4837
14	0	0	0	0	0	0	56	131	336	234	53	259	171	12	41	27	98	156	32	0	0	0	0	0	1606
15	0	0	0	0	0	0	34	56	47	159	440	547	391	421	512	376	8	26	18	0	0	0	0	0	3034
16	0	0	0	0	0	0	7	138	359	388	133	401	102	254	332	78	21	19	37	0	0	0	0	0	2271
17	0	0	0	0	0	0	33	60	223	388	504	440	174	205	65	341	262	140	5	0	0	0	0	0	2840
18	0	0	0	0	0	0	35	38	78	283	149	265	463	72	44	31	27	41	26	0	0	0	0	0	1553
19	0	0	0	0	0	0	49	237	387	491	544	426	526	504	162	315	320	98	10	0	0	0	0	0	4069
20	0	0	0	0	0	0	31	72	214	413	470	566	563	396	360	363	129	70	3	0	0	0	0	0	3648
21	0	0	0	0	0	0	42	191	302	470	414	595	506	186	74	35	41	27	2	0	0	0	0	0	2885
22	0	0	0	0	0	0	22	56	58	56	54	55	50	55	65	38	46	23	4	0	0	0	0	0	582
23	0	0	0	0	0	0	49	222	242	330	535	555	452	304	507	657	259	30	2	0	0	0	0	0	4144
24	0	0	0	0	0	0	19	24	48	99	241	226	361	173	178	453	199	49	17	0	0	0	0	0	2087
25	0	0	0	0	0	0	10	15	49	36	52	129	16	23	46	35	26	20	20	0	0	0	0	0	476
26	0	0	0	0	0	0	6	22	119	233	51	62	39	30	26	34	26	28	4	0	0	0	0	0	679
27	0	0	0	0	0	0	5	16	21	27	22	31	28	15	11	15	12	17	7	0	0	0	0	0	227
28	0	0	0	0	0	0	20	128	363	347	565	189	468	261	360	301	222	216	0	0	0	0	0	0	3441
29	0	0	0	0	0	0	67	371	584	667	750	737	523	675	783	699	503	198	27	0	0	0	0	0	6584
30	0	0	0	0	0	0	126	567	793	893	946	968	970	955	912	838	670	307	10	0	0	0	0	0	8956
Avg	0	0	0	0	0	0	54	206	310	392	407	441	426	399	382	360	267	146	25	0	0	0	0	0	3817
S D	0	0	0	0	0	0	50	203	245	273	299	257	281	306	315	282	230	136	26	0	0	0	0	0	2581
S/A	0	0	0	0	0	0	0.93	0.99	0.79	0.7	0.73	0.58	0.66	0.77	0.82	0.78	0.86	0.93	1.02	0	0	0	0	0	0.68
Min	0	0	0	0	0	0	5	15	21	27	22	31	16	12	11	15	8	17	0	0	0	0	0	0	227
Max	0	0	0	0	0	0	216	792	813	904	946	968	970	955	912	873	776	519	97	0	0	0	0	0	9192

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 41549 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 - September 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	36	172	259	379	346	371	393	393	389	333	224	111	16	0	0	0	0	0	3422
2	0	0	0	0	0	0	25	71	136	182	249	439	417	334	219	217	167	104	11	0	0	0	0	0	2572
3	0	0	0	0	0	0	23	104	192	233	253	197	139	144	138	132	122	76	13	0	0	0	0	0	1768
4	0	0	0	0	0	0	18	48	165	339	415	401	522	407	320	317	201	86	15	0	0	0	0	0	3253
5	0	0	0	0	0	0	18	60	63	71	116	207	192	142	87	72	55	41	11	0	0	0	0	0	1135
6	0	0	0	0	0	0	25	53	60	72	79	245	196	94	85	91	77	47	10	0	0	0	0	0	1136
7	0	0	0	0	0	0	24	52	57	64	90	102	150	110	109	93	70	48	9	0	0	0	0	0	977
8	0	0	0	0	0	0	29	84	108	123	135	154	165	219	174	152	138	75	12	0	0	0	0	0	1568
9	0	0	0	0	0	0	37	142	255	353	472	449	435	377	350	228	149	75	6	0	0	0	0	0	3327
10	0	0	0	0	0	0	28	125	188	305	353	467	435	161	146	245	186	84	13	0	0	0	0	0	2735
11	0	0	0	0	0	0	29	118	207	239	218	346	298	317	191	153	210	57	12	0	0	0	0	0	2395
12	0	0	0	0	0	0	9	79	134	166	268	248	167	195	227	186	118	71	8	0	0	0	0	0	1877
13	0	0	0	0	0	0	27	88	127	323	447	372	304	299	262	184	225	88	13	0	0	0	0	0	2759
14	0	0	0	0	0	0	31	118	227	340	295	442	269	86	208	135	177	130	13	0	0	0	0	0	2472
15	0	0	0	0	0	0	27	112	209	296	297	353	450	372	283	210	58	36	8	0	0	0	0	0	2712
16	0	0	0	0	0	0	12	99	206	282	248	329	223	277	275	184	70	24	13	0	0	0	0	0	2240
17	0	0	0	0	0	0	20	104	227	275	338	382	299	296	190	209	124	72	4	0	0	0	0	0	2540
18	0	0	0	0	0	0	21	75	205	303	428	457	449	335	251	133	85	57	8	0	0	0	0	0	2808
19	0	0	0	0	0	0	25	105	173	232	278	321	333	319	273	206	143	64	3	0	0	0	0	0	2474
20	0	0	0	0	0	0	27	123	218	265	288	311	346	383	305	241	120	64	3	0	0	0	0	0	2694
21	0	0	0	0	0	0	30	119	184	247	292	299	355	450	362	199	110	39	1	0	0	0	0	0	2687
22	0	0	0	0	0	0	16	101	193	262	300	312	402	315	380	213	117	34	1	0	0	0	0	0	2645
23	0	0	0	0	0	0	22	102	198	283	283	281	344	380	279	132	88	45	1	0	0	0	0	0	2439
24	0	0	0	0	0	0	10	81	164	248	304	331	406	375	250	146	139	38	6	0	0	0	0	0	2497
25	0	0	0	0	0	0	7	49	228	174	324	473	182	199	228	147	73	20	1	0	0	0	0	0	2104
26	0	0	0	0	0	0	4	39	120	293	309	393	299	204	150	133	72	39	1	0	0	0	0	0	2056
27	0	0	0	0	0	0	3	28	66	118	112	169	155	75	46	54	27	16	1	0	0	0	0	0	872
28	0	0	0	0	0	0	11	98	189	208	312	309	288	352	295	173	97	40	1	0	0	0	0	0	2374
29	0	0	0	0	0	0	16	70	111	147	161	196	245	191	136	108	82	36	0	0	0	0	0	0	1498
30	0	0	0	0	0	0	11	39	53	60	65	70	71	69	63	55	43	22	0	0	0	0	0	0	620
Avg	0	0	0	0	0	0	21	89	164	229	269	314	298	262	222	169	119	58	7	0	0	0	0	0	2222
S/D	0	0	0	0	0	0	9	33	60	91	106	108	114	113	93	67	54	28	5	0	0	0	0	0	722
S/A	0	0	0	0	0	0	0.44	0.37	0.37	0.4	0.4	0.34	0.38	0.43	0.42	0.39	0.45	0.48	0.72	0	0	0	0	0	0.32
Min	0	0	0	0	0	0	3	28	53	60	65	70	71	69	46	54	27	16	0	0	0	0	0	0	620
Max	0	0	0	0	0	0	37	172	259	379	472	473	522	450	389	333	225	130	16	0	0	0	0	0	3422

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4465 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