

**Global Solar Radiation on a Horizontal Surface  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Savannah State College - May 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	4	117	321	554	752	913	1001	897	835	834	651	456	237	41	0	0	0	0	0	7612
2	0	0	0	0	0	5	115	345	562	767	924	1015	1030	976	857	681	459	242	51	0	0	0	0	0	8029
3	0	0	0	0	0	2	77	253	417	682	827	806	576	145	29	151	470	197	74	0	0	0	0	0	4706
4	0	0	0	0	0	5	123	346	580	786	943	1041	1061	1009	832	726	492	272	67	0	0	0	0	0	8284
5	0	0	0	0	0	7	146	341	572	776	933	1029	1045	991	880	678	487	257	55	0	0	0	0	0	8196
6	0	0	0	0	0	6	52	252	545	713	901	990	986	938	799	610	447	213	67	0	0	0	0	0	7519
7	0	0	0	0	0	6	118	328	551	753	862	970	1022	948	855	659	475	291	78	0	0	0	0	0	7914
8	0	0	0	0	0	8	93	307	498	730	889	887	913	913	787	634	408	223	47	1	0	0	0	0	7337
9	0	0	0	0	0	9	121	312	516	719	881	928	776	654	619	525	428	236	55	0	0	0	0	0	6779
10	0	0	0	0	0	8	91	221	361	441	530	955	1055	984	820	571	429	209	59	0	0	0	0	0	6734
11	0	0	0	0	0	11	126	346	559	790	925	1012	983	960	821	694	451	243	71	0	0	0	0	0	7993
12	0	0	0	0	0	3	43	101	143	269	339	60	40	126	125	126	69	37	14	0	0	0	0	0	1494
13	0	0	0	0	0	9	116	370	483	758	915	1000	1049	900	684	574	430	266	71	0	0	0	0	0	7627
14	0	0	0	0	0	13	129	341	574	773	920	1008	1034	973	858	698	495	272	75	1	0	0	0	0	8162
15	0	0	0	0	0	10	126	325	526	734	897	892	994	859	742	543	180	85	42	2	0	0	0	0	6956
16	0	0	0	0	0	15	119	331	573	795	746	612	1102	982	745	660	478	277	80	0	0	0	0	0	7516
17	0	0	0	0	0	13	132	315	557	752	933	968	1020	993	876	698	498	264	83	1	0	0	0	0	8103
18	0	0	0	0	0	10	123	347	561	740	847	931	814	656	586	456	300	251	110	3	0	0	0	0	6736
19	0	0	0	0	0	12	110	399	433	416	360	690	874	897	501	441	321	227	71	1	0	0	0	0	5755
20	0	0	0	0	0	1	42	118	126	354	907	950	711	898	839	612	494	203	79	0	0	0	0	0	6336
21	0	0	0	0	0	11	120	274	475	617	479	755	797	849	480	318	390	236	53	1	0	0	0	0	5854
22	0	0	0	0	0	15	138	307	540	659	506	934	1045	990	875	681	373	272	65	2	0	0	0	0	7402
23	0	0	0	0	0	12	134	360	536	538	794	974	683	456	508	349	386	195	87	3	0	0	0	0	6015
24	0	0	0	0	0	4	28	38	67	39	62	77	228	503	344	300	404	207	134	6	0	0	0	0	2440
25	0	0	0	0	0	5	51	155	219	195	476	614	856	88	121	370	330	194	59	2	0	0	0	0	3734
26	0	0	0	0	0	14	145	297	521	696	884	820	983	856	694	611	389	222	76	2	0	0	0	0	7210
27	0	0	0	0	0	4	119	139	129	73	123	206	211	251	156	93	50	36	18	0	0	0	0	0	1608
28	0	0	0	0	0	2	20	97	128	201	233	286	316	283	290	422	266	168	41	2	0	0	0	0	2754
29	0	0	0	0	0	6	57	109	175	352	373	516	539	417	390	317	214	126	70	5	0	0	0	0	3667
30	0	0	0	0	0	17	138	371	541	731	822	867	928	903	739	554	518	257	77	2	0	0	0	0	7463
31	0	0	0	0	0	13	114	225	463	631	785	701	568	654	735	643	516	286	30	0	0	0	0	0	6364
Avg	0	0	0	0	0	8	103	271	435	588	707	790	811	738	626	518	390	216	64	1	0	0	0	0	6268
S D	0	0	0	0	0	4	36	98	167	228	267	280	283	293	258	180	121	65	24	1	0	0	0	0	1999
S/A	0	0	0	0	0	0.52	0.35	0.36	0.38	0.39	0.38	0.35	0.35	0.4	0.41	0.35	0.31	0.3	0.37	1.26	0	0	0	0	0.32
Min	0	0	0	0	0	1	20	38	67	39	62	60	40	88	29	93	50	36	14	0	0	0	0	0	1494
Max	0	0	0	0	0	17	146	399	580	795	943	1041	1102	1009	880	726	518	291	134	6	0	0	0	0	8284

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 21787 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 - May 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	14	360	642	810	866	919	902	569	616	840	705	551	392	32	32	0	0	0	0	8250
2	0	0	0	0	0	24	355	727	843	919	955	964	951	926	883	805	638	446	94	0	0	0	0	0	9530
3	0	0	0	0	0	7	59	218	292	672	698	515	232	18	5	37	534	202	92	8	0	0	0	0	3587
4	0	0	0	0	0	19	378	689	842	923	955	984	978	951	743	832	722	588	211	0	0	0	0	0	9816
5	0	0	0	0	0	32	466	673	826	906	952	978	975	958	927	780	720	535	141	8	0	0	0	0	9877
6	0	0	0	0	0	14	38	278	718	711	869	886	808	793	688	580	565	358	146	12	0	0	0	0	7464
7	0	0	0	0	0	13	276	569	677	698	577	773	908	865	858	700	639	500	177	23	0	0	0	0	8253
8	0	0	0	0	0	16	75	371	359	271	383	523	630	726	635	584	434	238	40	17	0	0	0	0	5300
9	0	0	0	0	0	19	199	461	600	678	799	687	423	318	354	394	434	294	73	0	0	0	0	0	5733
10	0	0	0	0	0	8	48	57	60	61	102	698	940	840	704	355	332	167	57	0	0	0	0	0	4428
11	0	0	0	0	0	44	301	605	733	836	867	875	766	826	687	703	502	394	156	0	0	0	0	0	8294
12	0	0	0	0	0	11	28	32	34	51	43	10	5	21	20	27	19	16	12	1	0	0	0	0	330
13	0	0	0	0	0	26	277	633	537	825	871	876	895	702	532	507	507	481	168	8	0	0	0	0	7846
14	0	0	0	0	0	56	360	649	813	887	925	938	945	906	858	814	733	558	210	14	0	0	0	0	9668
15	0	0	0	0	0	16	264	450	577	707	766	576	757	603	572	428	47	31	42	13	0	0	0	0	5847
16	0	0	0	0	0	33	151	515	766	810	435	183	752	643	583	698	651	561	221	0	0	0	0	0	7003
17	0	0	0	0	0	21	154	374	628	713	852	793	890	923	882	786	697	482	202	1	0	0	0	0	8397
18	0	0	0	0	0	16	234	552	722	707	660	610	327	157	149	128	59	287	199	3	0	0	0	0	4809
19	0	0	0	0	0	21	145	550	225	81	50	127	430	581	199	181	231	228	72	2	0	0	0	0	3124
20	0	0	0	0	0	1	19	27	18	248	897	724	345	691	717	609	654	323	216	7	0	0	0	0	5496
21	0	0	0	0	0	16	146	180	309	290	50	158	294	501	65	47	254	307	68	5	0	0	0	0	2690
22	0	0	0	0	0	22	255	424	434	470	235	709	889	886	812	679	302	357	72	25	0	0	0	0	6572
23	0	0	0	0	0	19	213	543	600	53	549	658	116	62	77	52	129	171	89	5	0	0	0	0	3335
24	0	0	0	0	0	5	19	13	17	3	10	11	37	78	30	55	202	100	98	8	0	0	0	0	685
25	0	0	0	0	0	17	38	46	34	34	65	140	381	16	18	43	106	107	32	12	0	0	0	0	1091
26	0	0	0	0	0	123	306	361	461	561	671	483	726	583	487	510	370	270	133	1	0	0	0	0	6046
27	0	0	0	0	0	18	59	45	31	14	21	32	33	37	27	20	13	13	13	3	0	0	0	0	380
28	0	0	0	0	0	2	8	35	32	40	40	46	49	47	35	48	75	53	33	9	0	0	0	0	553
29	0	0	0	0	0	22	36	35	38	51	46	53	38	51	62	34	55	50	68	15	0	0	0	0	654
30	0	0	0	0	0	47	320	664	693	778	594	538	665	655	507	336	623	343	142	13	0	0	0	0	6917
31	0	0	0	0	0	27	56	51	265	351	406	264	98	200	471	609	670	429	18	0	0	0	0	0	3916
Avg	0	0	0	0	0	24	182	370	451	491	525	539	544	522	465	422	402	299	107	8	0	0	0	0	5351
S D	0	0	0	0	0	22	133	249	299	338	353	333	341	343	327	296	247	174	67	8	0	0	0	0	3042
S/A	0	0	0	0	0	0.93	0.73	0.67	0.66	0.69	0.67	0.62	0.63	0.66	0.7	0.7	0.61	0.58	0.63	1.03	0	0	0	0	0.57
Min	0	0	0	0	0	1	8	13	17	3	10	10	5	16	5	20	13	13	12	0	0	0	0	0	330
Max	0	0	0	0	0	123	466	727	843	923	955	984	978	958	927	832	733	588	221	32	0	0	0	0	9877

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 21787 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 - May 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	3	50	75	89	115	124	160	356	274	138	159	168	105	37	0	0	0	0	0	1853	
2	0	0	0	0	0	4	50	67	77	88	102	113	123	125	125	122	124	96	36	0	0	0	0	0	1251	
3	0	0	0	0	0	2	55	167	245	182	227	326	354	128	25	126	194	129	62	0	0	0	0	0	2223	
4	0	0	0	0	0	4	49	77	91	101	117	118	125	133	213	147	111	77	34	0	0	0	0	0	1397	
5	0	0	0	0	0	5	54	77	91	101	108	112	110	107	107	131	108	77	33	0	0	0	0	0	1221	
6	0	0	0	0	0	6	45	131	125	181	147	157	210	205	222	206	149	92	43	0	0	0	0	0	1918	
7	0	0	0	0	0	6	60	101	154	230	363	240	149	148	136	166	136	122	49	0	0	0	0	0	2060	
8	0	0	0	0	0	7	75	163	288	527	553	395	307	240	255	223	172	139	42	1	0	0	0	0	3387	
9	0	0	0	0	0	9	78	124	160	205	184	280	368	360	325	245	195	134	42	0	0	0	0	0	2708	
10	0	0	0	0	0	8	81	199	325	395	440	294	149	204	221	319	257	151	50	0	0	0	0	0	3095	
11	0	0	0	0	0	9	61	100	123	159	165	184	243	192	241	197	179	105	45	0	0	0	0	0	2004	
12	0	0	0	0	0	3	37	88	123	230	301	51	34	106	108	107	58	31	12	0	0	0	0	0	1290	
13	0	0	0	0	0	8	60	111	152	132	151	169	182	245	237	213	158	98	41	1	0	0	0	0	1959	
14	0	0	0	0	0	9	52	71	87	99	107	116	119	127	133	118	97	76	39	1	0	0	0	0	1250	
15	0	0	0	0	0	9	66	143	177	196	223	343	260	296	260	230	154	73	36	2	0	0	0	0	2469	
16	0	0	0	0	0	14	84	110	112	179	368	435	372	379	257	160	122	79	41	0	0	0	0	0	2713	
17	0	0	0	0	0	11	96	157	176	205	182	213	155	129	127	135	117	90	47	1	0	0	0	0	1843	
18	0	0	0	0	0	9	72	109	124	203	266	350	495	508	460	364	268	170	74	3	0	0	0	0	3475	
19	0	0	0	0	0	11	77	167	295	355	316	568	456	352	330	315	196	139	59	1	0	0	0	0	3636	
20	0	0	0	0	0	1	37	107	116	154	113	259	375	250	232	175	131	94	39	1	0	0	0	0	2084	
21	0	0	0	0	0	10	85	197	283	402	434	603	510	376	425	284	257	122	41	1	0	0	0	0	4030	
22	0	0	0	0	0	15	77	137	269	296	299	255	177	156	181	188	201	143	51	2	0	0	0	0	2448	
23	0	0	0	0	0	11	81	129	175	497	301	345	570	397	441	312	315	154	75	3	0	0	0	0	3806	
24	0	0	0	0	0	3	24	32	57	37	53	67	192	430	319	260	292	171	83	?	5	0	0	0	0	2025
25	0	0	0	0	0	4	43	136	198	170	417	479	483	72	106	339	273	155	53	2	0	0	0	0	2931	
26	0	0	0	0	0	12	70	145	233	259	288	357	272	308	275	241	178	125	50	2	0	0	0	0	2814	
27	0	0	0	0	0	4	105	120	111	63	104	175	179	216	133	79	42	32	15	0	0	0	0	0	1375	
28	0	0	0	0	0	1	18	82	108	170	197	241	268	239	259	386	222	148	36	2	0	0	0	0	2379	
29	0	0	0	0	0	5	48	93	150	313	332	465	502	369	337	293	183	108	59	5	0	0	0	0	3262	
30	0	0	0	0	0	15	60	84	116	128	294	350	275	282	300	313	160	128	46	2	0	0	0	0	2553	
31	0	0	0	0	0	11	101	203	296	358	422	448	472	467	330	201	137	118	25	0	0	0	0	0	3589	
Avg	0	0	0	0	0	7	63	119	165	217	248	280	285	252	234	218	173	112	45	1	0	0	0	0	2421	
S/D	0	0	0	0	0	4	21	41	75	121	125	143	143	116	105	82	65	35	15	1	0	0	0	0	813	
S/A	0	0	0	0	0	0.52	0.33	0.35	0.45	0.56	0.5	0.51	0.5	0.46	0.45	0.37	0.38	0.31	0.34	1.17	0	0	0	0	0.34	
Min	0	0	0	0	0	1	18	32	57	37	53	51	34	72	25	79	42	31	12	0	0	0	0	0	1221	
Max	0	0	0	0	0	15	105	203	325	527	553	603	570	508	460	386	315	171	83	5	0	0	0	0	4030	

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 21787 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