

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Savannah State College - September 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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	*	*	*	*	*	*	*	*	377	599	764	855	878	797	693	527	338	135	13	0	0	0	0	0	5977
9	0	0	0	0	0	0	54	207	381	666	806	852	888	880	738	569	336	116	6	0	0	0	0	0	6500
10	0	0	0	0	0	0	64	248	474	672	830	927	904	780	631	409	377	113	8	0	0	0	0	0	6438
11	0	0	0	0	0	0	39	214	324	583	695	745	710	701	672	508	276	75	7	0	0	0	0	0	5547
12	0	0	0	0	0	0	42	231	411	629	632	804	833	846	726	552	350	138	9	0	0	0	0	0	6204
13	0	0	0	0	0	0	42	174	391	599	756	846	869	837	720	561	355	138	8	0	0	0	0	0	6296
14	0	0	0	0	0	0	40	186	406	599	752	882	867	841	744	573	349	134	4	0	0	0	0	0	6377
15	0	0	0	0	0	0	44	151	185	193	666	603	827	820	764	503	333	129	8	0	0	0	0	0	5226
16	0	0	0	0	0	0	42	192	398	491	626	912	894	632	445	506	230	121	6	0	0	0	0	0	5496
17	0	0	0	0	0	0	17	84	270	225	308	200	144	339	492	201	115	45	2	0	0	0	0	0	2443
18	0	0	0	0	0	0	3	6	26	111	222	576	249	170	244	212	135	48	2	0	0	0	0	0	2005
19	0	0	0	0	0	0	15	68	182	317	296	770	169	164	660	248	201	32	3	0	0	0	0	0	3124
20	0	0	0	0	0	0	7	112	297	323	682	825	625	269	43	98	106	49	2	0	0	0	0	0	3439
21	0	0	0	0	0	0	16	80	186	371	479	698	663	488	497	303	30	30	2	0	0	0	0	0	3841
22	0	0	0	0	0	0	9	55	273	517	508	526	423	687	653	431	289	57	3	0	0	0	0	0	4432
23	0	0	0	0	0	0	26	152	356	485	350	349	331	670	394	238	120	61	3	0	0	0	0	0	3535
24	0	0	0	0	0	0	25	182	386	594	749	866	851	801	688	526	312	86	2	0	0	0	0	0	6069
25	0	0	0	0	0	0	30	153	377	535	712	801	866	348	306	149	115	43	1	0	0	0	0	0	4435
26	0	0	0	0	0	0	22	115	203	390	617	694	789	755	501	459	274	81	1	0	0	0	0	0	4902
27	0	0	0	0	0	0	23	152	314	385	500	652	623	743	631	450	218	59	1	0	0	0	0	0	4751
28	0	0	0	0	0	0	27	83	213	295	421	640	710	477	346	257	177	29	0	0	0	0	0	0	3675
29	0	0	0	0	0	0	4	50	152	216	540	693	672	517	292	179	85	20	0	0	0	0	0	0	3419
30	0	0	0	0	0	0	11	48	74	104	110	200	170	152	166	101	73	24	1	0	0	0	0	0	1235
Avg	0	0	0	0	0	0	27	134	290	430	566	692	650	596	524	372	226	77	4	0	0	0	0	0	4581
S D	0	0	0	0	0	0	16	66	115	177	197	203	259	241	205	163	108	41	3	0	0	0	0	0	1505
S/A	0	0	0	0	0	0	0.6	0.49	0.4	0.41	0.35	0.29	0.4	0.39	0.44	0.48	0.54	0.84	0	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	3	6	26	104	110	200	144	152	43	98	30	20	0	0	0	0	0	0	1235
Max	0	0	0	0	0	0	64	248	474	672	830	927	904	880	764	573	377	138	13	0	0	0	0	0	6500

Daylight Data Recovery: 25% 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 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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	*	*	*	*	*	*	*	*	274	578	686	705	712	638	591	483	381	156	11	0	0	0	0	0	5215
9	0	0	0	0	0	0	118	293	443	778	806	763	817	857	761	665	453	206	8	0	0	0	0	0	6967
10	0	0	0	0	0	0	318	641	808	882	931	934	809	662	555	266	457	169	141	0	0	0	0	0	7572
11	0	0	0	0	0	0	71	262	298	588	491	410	340	406	529	429	338	40	13	0	0	0	0	0	4214
12	0	0	0	0	0	0	175	542	589	623	372	574	585	797	779	698	580	330	25	0	0	0	0	0	6668
13	0	0	0	0	0	0	195	313	563	699	746	729	765	828	794	754	635	363	25	0	0	0	0	0	7410
14	0	0	0	0	0	0	111	340	573	625	645	792	823	841	791	723	597	235	18	0	0	0	0	0	7113
15	0	0	0	0	0	0	65	98	97	54	500	366	699	742	711	486	508	318	26	0	0	0	0	0	4670
16	0	0	0	0	0	0	96	363	545	402	520	797	683	403	220	493	265	173	14	0	0	0	0	0	4975
17	0	0	0	0	0	0	22	29	77	38	48	16	21	53	185	33	19	11	0	0	0	0	0	0	551
18	0	0	0	0	0	0	1	1	6	20	30	123	31	19	33	36	35	25	12	0	0	0	0	0	373
19	0	0	0	0	0	0	16	26	43	31	26	463	20	20	351	99	117	11	6	0	0	0	0	0	1227
20	0	0	0	0	0	0	12	40	256	70	344	468	226	44	5	22	26	28	2	0	0	0	0	0	1541
21	0	0	0	0	0	0	35	37	46	63	93	351	297	151	345	186	7	22	46	0	0	0	0	0	1679
22	0	0	0	0	0	0	12	22	152	313	186	196	85	436	517	441	381	55	11	0	0	0	0	0	2808
23	0	0	0	0	0	0	52	202	366	307	47	52	49	207	57	41	40	35	7	0	0	0	0	0	1461
24	0	0	0	0	0	0	64	369	558	653	785	834	785	824	800	731	600	231	3	0	0	0	0	0	7238
25	0	0	0	0	0	0	52	167	453	472	591	729	588	45	54	25	24	23	3	0	0	0	0	0	3225
26	0	0	0	0	0	0	34	66	65	163	471	440	606	677	341	597	477	189	7	0	0	0	0	0	4132
27	0	0	0	0	0	0	44	114	298	152	138	263	310	630	616	464	191	40	4	0	0	0	0	0	3265
28	0	0	0	0	0	0	58	39	47	50	65	397	398	163	38	60	49	19	1	0	0	0	0	0	1384
29	0	0	0	0	0	0	18	15	36	37	217	393	421	212	52	30	24	11	5	0	0	0	0	0	1471
30	0	0	0	0	0	0	15	21	15	13	14	23	19	18	21	16	18	15	6	0	0	0	0	0	214
Avg	0	0	0	0	0	0	72	182	287	331	380	470	439	420	398	338	271	118	17	0	0	0	0	0	3712
S D	0	0	0	0	0	0	74	180	234	286	291	272	294	315	294	273	229	115	28	0	0	0	0	0	2487
S/A	0	0	0	0	0	0	1.02	0.99	0.81	0.87	0.77	0.58	0.67	0.75	0.74	0.81	0.85	0.98	1.66	0	0	0	0	0	0.67
Min	0	0	0	0	0	0	1	1	6	13	14	16	19	18	5	16	7	11	0	0	0	0	0	0	214
Max	0	0	0	0	0	0	318	641	808	882	931	934	823	857	800	754	635	363	141	0	0	0	0	0	7572

Daylight Data Recovery: 25% 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: 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 - September 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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	*	*	*	*	*	*	*	*	229	209	217	238	240	248	239	221	164	93	13	0	0	0	0	0	2112
9	0	0	0	0	0	0	42	113	153	145	165	186	159	146	155	153	130	57	5	0	0	0	0	0	1610
10	0	0	0	0	0	0	24	56	72	84	92	115	184	215	209	244	181	69	7	0	0	0	0	0	1551
11	0	0	0	0	0	0	34	131	174	189	312	389	408	357	271	247	120	64	6	0	0	0	0	0	2703
12	0	0	0	0	0	0	23	65	122	221	337	307	316	173	139	123	96	57	7	0	0	0	0	0	1985
13	0	0	0	0	0	0	26	81	111	137	169	217	195	140	125	101	79	51	6	0	0	0	0	0	1437
14	0	0	0	0	0	0	26	83	127	186	247	202	145	135	153	134	93	73	4	0	0	0	0	0	1609
15	0	0	0	0	0	0	40	119	142	156	279	288	217	199	233	212	114	57	6	0	0	0	0	0	2062
16	0	0	0	0	0	0	30	79	139	231	224	232	299	294	290	206	127	75	5	0	0	0	0	0	2233
17	0	0	0	0	0	0	15	75	233	200	271	186	126	296	353	181	107	43	3	0	0	0	0	0	2090
18	0	0	0	0	0	0	3	6	23	98	199	478	223	154	220	190	120	43	2	0	0	0	0	0	1760
19	0	0	0	0	0	0	14	61	161	298	276	376	152	148	408	188	148	30	3	0	0	0	0	0	2261
20	0	0	0	0	0	0	6	100	171	280	416	431	432	232	40	86	96	44	2	0	0	0	0	0	2335
21	0	0	0	0	0	0	14	70	164	329	409	405	410	363	253	193	27	27	1	0	0	0	0	0	2664
22	0	0	0	0	0	0	8	49	196	315	364	364	351	330	284	183	138	45	3	0	0	0	0	0	2633
23	0	0	0	0	0	0	21	95	183	293	314	306	289	504	353	215	105	55	2	0	0	0	0	0	2737
24	0	0	0	0	0	0	18	78	127	177	155	176	190	142	124	115	82	36	2	0	0	0	0	0	1422
25	0	0	0	0	0	0	24	113	168	241	266	200	372	311	268	135	105	39	1	0	0	0	0	0	2244
26	0	0	0	0	0	0	19	99	173	284	265	330	284	216	272	128	96	47	1	0	0	0	0	0	2212
27	0	0	0	0	0	0	21	119	180	293	397	436	365	248	205	192	144	53	1	0	0	0	0	0	2657
28	0	0	0	0	0	0	23	73	191	264	371	315	380	346	320	226	158	26	0	0	0	0	0	0	2695
29	0	0	0	0	0	0	4	45	136	193	375	375	325	347	256	162	77	18	0	0	0	0	0	0	2314
30	0	0	0	0	0	0	10	43	68	95	100	182	154	138	152	93	66	22	1	0	0	0	0	0	1125
Avg	0	0	0	0	0	0	20	80	150	214	270	293	270	247	231	171	112	49	4	0	0	0	0	0	2106
S D	0	0	0	0	0	0	10	30	48	72	93	99	96	96	86	48	34	18	3	0	0	0	0	0	465
S/A	0	0	0	0	0	0	0.51	0.37	0.32	0.33	0.35	0.34	0.35	0.39	0.37	0.28	0.31	0.37	0.82	0	0	0	0	0	0.22
Min	0	0	0	0	0	0	3	6	23	84	92	115	126	135	40	86	27	18	0	0	0	0	0	0	1125
Max	0	0	0	0	0	0	42	131	233	329	416	478	432	504	408	247	181	93	13	0	0	0	0	0	2737

Daylight Data Recovery: 25% 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