

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - October 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	0	0	0	0	0	0	3	31	144	193	321	631	694	475	450	224	215	75	0	0	0	0	0	0	3456
2	0	0	0	0	0	0	19	156	354	543	664	461	223	139	259	134	192	46	0	0	0	0	0	0	3193
3	0	0	0	0	0	0	19	135	328	423	265	257	184	131	212	51	52	59	0	0	0	0	0	0	2117
4	0	0	0	0	0	0	18	172	206	448	561	618	501	683	454	264	98	41	0	0	0	0	0	0	4065
5	0	0	0	0	0	0	24	173	372	481	472	788	718	625	451	368	211	61	0	0	0	0	0	0	4745
6	0	0	0	0	0	0	6	78	72	73	301	207	376	448	215	245	147	48	0	0	0	0	0	0	2217
7	0	0	0	0	0	0	20	118	353	541	733	799	419	246	394	294	66	16	0	0	0	0	0	0	3998
8	0	0	0	0	0	0	7	128	289	259	398	505	556	403	365	290	171	23	0	0	0	0	0	0	3393
9	0	0	0	0	0	0	4	66	164	170	590	458	283	503	464	477	203	44	0	0	0	0	0	0	3427
10	0	0	0	0	0	0	18	160	245	520	704	789	670	645	408	398	117	30	0	0	0	0	0	0	4703
11	0	0	0	0	0	0	13	137	325	508	673	714	786	727	604	426	214	40	0	0	0	0	0	0	5169
12	0	0	0	0	0	0	13	127	291	540	607	618	706	672	525	351	197	31	0	0	0	0	0	0	4680
13	0	0	0	0	0	0	12	117	291	460	650	770	720	576	582	395	154	34	0	0	0	0	0	0	4761
14	0	0	0	0	0	0	12	121	285	508	659	742	802	710	480	314	189	28	0	0	0	0	0	0	4851
15	0	0	0	0	0	0	12	120	282	523	668	750	756	703	567	393	193	30	0	0	0	0	0	0	4996
16	0	0	0	0	0	0	10	110	299	536	684	764	766	705	570	405	202	32	0	0	0	0	0	0	5082
17	0	0	0	0	0	0	10	138	341	525	670	681	733	702	577	405	201	31	0	0	0	0	0	0	5014
18	0	0	0	0	0	0	10	147	376	502	485	499	489	549	464	400	142	18	0	0	0	0	0	0	4080
19	0	0	0	0	0	0	10	107	260	509	717	610	724	724	550	335	188	29	0	0	0	0	0	0	4763
20	0	0	0	0	0	0	5	72	218	509	633	708	715	622	450	280	166	21	0	0	0	0	0	0	4398
21	0	0	0	0	0	0	2	46	117	227	500	603	431	377	159	63	81	6	0	0	0	0	0	0	2611
22	0	0	0	0	0	0	6	117	335	523	661	737	739	647	549	278	123	17	0	0	0	0	0	0	4731
23	0	0	0	0	0	0	6	141	355	548	689	768	774	710	582	402	186	17	0	0	0	0	0	0	5177
24	0	0	0	0	0	0	5	132	342	530	669	749	763	691	564	387	174	18	0	?	0	0	0	0	5024
25	0	0	0	0	0	0	5	119	256	512	660	739	697	642	550	377	168	13	0	?	0	0	0	0	4737
26	0	0	0	0	0	0	4	130	?	286	512	652	730	738	675	550	373	164	13	0	?	0	0	0	4828
27	0	0	0	0	0	0	4	125	?	279	491	630	708	713	656	530	355	150	10	0	0	0	0	0	4652
28	0	0	0	0	0	0	4	129	248	472	603	675	692	629	517	351	149	10	0	0	0	0	0	0	4478
29	0	0	0	0	0	0	3	107	302	476	612	684	684	617	498	330	137	9	0	0	0	0	0	0	4461
30	0	0	0	0	0	0	4	80	279	449	581	659	663	609	488	319	129	8	0	0	0	0	0	0	4269
31	0	0	0	0	0	0	3	95	278	452	589	666	673	605	484	315	122	10	0	0	0	0	0	0	4293
Avg	0	0	0	0	0	0	9	117	277	450	590	648	625	576	468	323	158	28	0	0	0	0	0	0	4270
S D	0	0	0	0	0	0	6	33	73	123	122	144	170	161	115	97	43	17	0	0	0	0	0	0	831
S/A	0	0	0	0	0	0	0.64	0.28	0.26	0.27	0.21	0.22	0.27	0.28	0.25	0.3	0.27	0.61	2.56	0	0	0	0	0	0.19
Min	0	0	0	0	0	0	2	31	72	73	265	207	184	131	159	51	52	6	0	0	0	0	0	0	2117
Max	0	0	0	0	0	0	24	173	376	548	733	799	802	727	604	477	215	75	0	0	0	0	0	0	5177

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4250 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 - October 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	0	0	0	0	0	0	4	12	36	38	56	391	465	284	348	182	368	143	0	0	0	0	0	0	2326
2	0	0	0	0	0	0	44	262	452	586	567	86	29	18	40	26	76	27	10	0	0	0	0	0	2223
3	0	0	0	0	0	0	31	160	377	293	63	90	18	16	31	8	16	46	3	0	0	0	0	0	1151
4	0	0	0	0	0	0	25	93	44	316	298	357	228	309	125	101	26	30	1	0	0	0	0	0	1955
5	0	0	0	0	0	0	97	416	638	550	333	640	511	511	342	377	340	131	1	0	0	0	0	0	4888
6	0	0	0	0	0	0	10	32	19	11	51	20	54	174	37	95	88	39	1	0	0	0	0	0	631
7	0	0	0	0	0	0	44	138	428	537	723	755	180	27	155	136	20	23	0	0	0	0	0	0	3167
8	0	0	0	0	0	0	11	93	218	37	70	134	177	120	121	203	167	14	4	0	0	0	0	0	1366
9	0	0	0	0	0	0	5	31	49	21	258	47	29	155	362	671	291	93	0	0	0	0	0	0	2013
10	0	0	0	0	0	0	39	320	230	635	827	817	470	462	299	504	143	52	0	0	0	0	0	0	4799
11	0	0	0	0	0	0	30	239	461	443	615	677	837	826	788	687	473	143	0	0	0	0	0	0	6220
12	0	0	0	0	0	0	38	312	484	732	667	537	641	593	474	401	369	64	0	0	0	0	0	0	5312
13	0	0	0	0	0	0	29	250	389	589	734	866	718	491	614	434	256	109	0	0	0	0	0	0	5477
14	0	0	0	0	0	0	54	247	426	645	730	764	755	642	433	362	359	76	0	0	0	0	0	0	5492
15	0	0	0	0	0	0	45	311	496	780	843	869	860	849	760	662	474	136	0	0	0	0	0	0	7085
16	0	0	0	0	0	0	27	277	561	815	877	900	884	860	747	696	513	131	0	0	0	0	0	0	7289
17	0	0	0	0	0	0	31	383	623	741	813	703	788	832	792	718	534	134	0	0	0	0	0	0	7093
18	0	0	0	0	0	0	23	377	780	640	334	258	330	492	513	659	248	46	0	0	0	0	0	0	4700
19	0	0	0	0	0	0	33	264	470	775	821	536	748	759	636	457	453	110	0	0	0	0	0	0	6061
20	0	0	0	0	0	0	9	37	62	710	789	795	791	670	530	392	300	59	0	0	0	0	0	0	5144
21	0	0	0	0	0	0	2	17	23	31	139	297	74	53	26	10	32	4	0	0	0	0	0	0	707
22	0	0	0	0	0	0	7	352	665	767	861	884	846	776	767	364	196	14	0	0	0	0	0	0	6498
23	0	0	0	0	0	0	32	531	790	901	950	972	971	950	903	818	605	96	0	0	0	0	0	0	8518
24	0	0	0	0	0	0	16	486	762	873	927	959	976	944	894	803	582	101	0	0	0	0	0	0	8322
25	0	0	0	0	0	0	16	360	492	814	904	906	778	798	857	777	559	78	0	0	0	0	0	0	7340
26	0	0	0	0	0	0	16	593	556	853	910	932	934	916	870	776	552	61	0	0	0	0	0	0	7969
27	0	0	0	0	0	0	50	722	618	823	879	904	901	890	836	727	486	42	0	0	0	0	0	0	7877
28	0	0	0	0	0	0	2	459	515	783	840	848	864	837	798	703	467	44	0	0	0	0	0	0	7162
29	0	0	0	0	0	0	7	348	653	762	829	850	831	796	744	630	378	49	0	0	0	0	0	0	6877
30	0	0	0	0	0	0	5	161	551	703	754	780	772	749	690	582	344	26	0	0	0	0	0	0	6117
31	0	0	0	0	0	0	5	262	544	696	776	813	817	713	675	563	296	19	0	0	0	0	0	0	6179
Avg	0	0	0	0	0	0	25	276	433	577	621	625	590	565	523	468	323	69	1	0	0	0	0	0	5095
S/D	0	0	0	0	0	0	20	174	232	280	301	307	325	311	294	258	181	43	2	0	0	0	0	0	2397
S/A	0	0	0	0	0	0	0.79	0.63	0.54	0.48	0.49	0.49	0.55	0.55	0.56	0.55	0.56	0.62	3.03	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	2	12	19	11	51	20	18	16	26	8	16	4	0	0	0	0	0	0	631
Max	0	0	0	0	0	0	97	722	790	901	950	972	976	950	903	818	605	143	10	0	0	0	0	0	8518

Daylight Data Recovery: 3% missing; 0% exceed the 15% QC threshold -- 99154 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 - October 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	0	0	0	0	0	0	3	28	128	170	279	315	315	255	218	120	91	49	0	0	0	0	0	0	1971
2	0	0	0	0	0	0	16	87	152	186	253	392	200	126	232	121	165	42	0	0	0	0	0	0	1971
3	0	0	0	0	0	0	17	94	157	244	221	186	170	119	192	47	47	53	0	0	0	0	0	0	1547
4	0	0	0	0	0	0	17	148	188	255	344	334	317	446	369	214	90	37	0	0	0	0	0	0	2758
5	0	0	0	0	0	0	16	69	92	152	235	285	309	242	224	184	95	40	0	0	0	0	0	0	1941
6	0	0	0	0	0	0	6	70	64	66	264	192	333	314	192	196	118	42	0	0	0	0	0	0	1857
7	0	0	0	0	0	0	16	79	165	223	215	210	276	226	295	221	59	15	0	0	0	0	0	0	2000
8	0	0	0	0	0	0	6	103	196	238	348	401	417	314	288	195	110	21	0	0	0	0	0	0	2638
9	0	0	0	0	0	0	3	58	144	158	407	421	260	392	226	147	105	30	0	0	0	0	0	0	2351
10	0	0	0	0	0	0	14	88	147	147	123	161	302	310	218	144	75	22	0	0	0	0	0	0	1751
11	0	0	0	0	0	0	12	78	129	247	241	197	137	125	109	94	70	21	0	0	0	0	0	0	1460
12	0	0	0	0	0	0	11	57	82	117	146	208	212	240	230	155	84	23	0	0	0	0	0	0	1565
13	0	0	0	0	0	0	10	62	129	125	140	115	170	223	197	187	86	18	0	0	0	0	0	0	1462
14	0	0	0	0	0	0	9	67	110	140	157	167	227	252	214	144	84	17	0	0	0	0	0	0	1588
15	0	0	0	0	0	0	8	53	76	80	92	100	104	100	102	85	57	14	0	0	0	0	0	0	872
16	0	0	0	0	0	0	8	49	66	76	88	94	100	97	117	85	57	16	0	0	0	0	0	0	852
17	0	0	0	0	0	0	8	54	90	110	121	161	142	118	101	78	52	15	0	0	0	0	0	0	1050
18	0	0	0	0	0	0	8	59	84	149	267	307	243	205	160	102	66	13	0	0	0	0	0	0	1663
19	0	0	0	0	0	0	8	53	71	80	169	221	170	197	171	141	66	19	0	0	0	0	0	0	1366
20	0	0	0	0	0	0	5	64	192	117	109	129	133	160	135	113	88	14	0	0	0	0	0	0	1259
21	0	0	0	0	0	0	2	42	107	210	424	388	377	341	144	59	73	5	0	0	0	0	0	0	2171
22	0	0	0	0	0	0	6	46	77	107	95	101	124	117	102	116	75	15	0	0	0	0	0	0	981
23	0	0	0	0	0	0	4	35	53	63	69	72	72	68	63	51	34	6	0	0	0	0	0	0	590
24	0	0	0	0	0	0	4	36	53	64	68	66	61	57	54	46	30	5	0	0	0	0	0	0	545
25	0	0	0	0	0	0	4	47	72	79	78	98	141	109	65	49	31	4	0	0	0	0	0	0	778
26	0	0	0	0	0	0	4	63	80	63	70	75	73	68	61	49	32	4	0	0	0	0	0	0	641
27	0	0	0	0	0	0	4	35	56	60	71	76	76	70	64	54	35	4	0	0	0	0	0	0	604
28	0	0	0	0	0	0	4	41	61	64	72	85	85	81	74	63	40	6	0	0	0	0	0	0	675
29	0	0	0	0	0	0	3	41	66	83	91	97	104	100	89	74	49	6	0	0	0	0	0	0	802
30	0	0	0	0	0	0	4	50	79	90	111	124	127	124	111	85	50	5	0	0	0	0	0	0	959
31	0	0	0	0	0	0	3	46	84	98	108	111	109	147	118	90	52	9	0	0	0	0	0	0	976
Avg	0	0	0	0	0	0	8	61	105	131	177	190	190	185	159	113	70	19	0	0	0	0	0	0	1408
S/D	0	0	0	0	0	0	5	24	43	62	104	109	98	102	78	53	30	14	0	0	0	0	0	0	617
S/A	0	0	0	0	0	0	0.61	0.39	0.41	0.47	0.59	0.57	0.52	0.55	0.49	0.47	0.42	0.73	2.51	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	2	28	53	60	68	66	61	57	54	46	30	4	0	0	0	0	0	0	545
Max	0	0	0	0	0	0	17	148	196	255	424	421	417	446	369	221	165	53	0	0	0	0	0	0	2758

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4250 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