

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - October 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	23	183	405	599	749	826	849	791	661	481	268	66	0 ?	0	0	0	0	0	5902
2	0	0	0	0	0	0	6	94	375	567	712	806	853	777	638	393	254	72	0	0	0	0	0	0	5547
3	0	0	0	0	0	0	21	168	374	569	728	826	824	773	625	461	228	58	0	0	0	0	0	0	5654
4	0	0	0	0	0	0	3	49	226	535	663	669	827	771	665	436	246	58	0	0	0	0	0	0	5149
5	0	0	0	0	0	0	20	145	338	524	484	765	830	764	635	457	240	56	0	0	0	0	0	0	5258
6	0	0	0	0	0	0	18	123	334	552	705	790	802	752	621	444	228	50	0	0	0	0	0	0	5420
7	0	0	0	0	0	0	16	130	327	540	696	783	801	746	618	436	222	48	0	0	0	0	0	0	5362
8	0	0	0	0	0	0	12	86	158	346	479	775	778	721	585	413	177	37	0	0	0	0	0	0	4567
9	0	0	0	0	0	0	9	85	242	383	580	720	778	753	617	432	220	53	0	0	0	0	0	0	4871
10	0	0	0	0	0	0	10	78	354	545	605	630	572	616	613	434	205	44	0	0	0	0	0	0	4709
11	0	0	0	0	0	0	14	108	295	497	712	771	782	715	578	412	202	38	0	0	0	0	0	0	5123
12	0	0	0	0	0	0	11	121	195	374	482	458	442	622	353	302	139	39	0	0	0	0	0	0	3538
13	0	0	0	0	0	0	10	115	323	444	477	563	738	640	291	317	166	25	0	0	0	0	0	0	4108
14	0	0	0	0	0	0	10	134	334 ?	247	528	625	215	585	369	292	145	25	0	0	0	0	0	0	3510
15	0	0	0	0	0	0	15	124	251	379	605	286	200	340	146	15	6	1	0	0	0	0	0	0	2368
16	0	0	0	0	0	0	2	17	152	156	158	376	642	449	318	212	65	9	0	0	0	0	0	0	2557
17	0	0	0	0	0	0	3	38	69	109	137	208	226	301	233	206	94	14	0	0	0	0	0	0	1638
18	0	0	0	0	0	0	2	26	61	44	52	73	127	85	63	32	20	2	0	0	0	0	0	0	587
19	0	0	0	0	0	0	2	45	108	261	218	294	414	252	189	161	161	31	0	0	0	0	0	0	2134
20	0	0	0	0	0	0	8	104	288	496	662	702	804	542	482	456	186	22	0	0	0	0	0	0	4749
21	0	0	0	0	0	0	7	94	308	499	644	725	729	664	522	363	161	16	0	0	0	0	0	0	4732
22	0	0	0	0	0	0	6	115	233	346	448	503	290	77	150	201	27	5	0	0	0	0	0	0	2402
23	0	0	0	0	0	0	6	97	342	514	658	738	749	681	551	374	168	18	0	0	0	0	0	0	4897
24	0	0	0	0	0	0	11	89	231	367	463	513	328	247	112	42	9	1	0	0	0	0	0	0	2413
25	0	0	0	0	0	0	4	53	134	339	430	523	569	473	410	217	45	2	0	0	0	0	0	0	3200
26	0	0	0	0	0	0	1	30	163	210	364	422	391	218	115	29	5	0	0	0	0	0	0	0	1949
27	0	0	0	0	0	0	0	4	14	25	87	101	93	101	123	122	45	20	0	0	0	0	0	0	736
28	0	0	0	0	0	0	4	117	316	512	657	721	747	689	506	389	150	9	0	0	0	0	0	0	4816
29	0	0	0	0	0	0	4	53	145	191	315	238	249	285	173	117	48	3	0	0	0	0	0	0	1821
30	0	0	0	0	0	0	3	72	175	216	463	367	533	614	365	229	136	9	0	0	0	0	0	0	3181
31	0	0	0	0	0	0	1	31	90	144	122	112	105	97	69	23	6	0	0	0	0	0	0	0	801
Avg	0	0	0	0	0	0	9	88	237	372	487	545	558	521	400	287	138	27	0	0	0	0	0	0	3668
S D	0	0	0	0	0	0	6	44	105	168	208	235	260	241	209	154	85	22	0	0	0	0	0	0	1603
S/A	0	0	0	0	0	0	0.73	0.5	0.44	0.45	0.43	0.43	0.47	0.46	0.52	0.54	0.62	0.82	0	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	0	4	14	25	52	73	93	77	63	15	5	0	0	0	0	0	0	0	587
Max	0	0	0	0	0	0	23	183	405	599	749	826	853	791	665	481	268	72	0	0	0	0	0	0	5902

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 8715 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 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	113	547	781	878	929	933	947	923	876	791	630	250	0	0	0	0	0	0	8597
2	0	0	0	0	0	0	10	169	634	744	797	852	842	871	798	536	525	194	0	0	0	0	0	0	6971
3	0	0	0	0	0	0	76	425	636	654	832	862	849	872	795	702	459	172	22	0	0	0	0	0	7354
4	0	0	0	0	0	0	6	21	98	417	636	423	680	816	809	640	573	221	11	0	0	0	0	0	5350
5	0	0	0	0	0	0	88	362	606	630	485	782	900	869	820	732	554	208	0	0	0	0	0	0	7036
6	0	0	0	0	0	0	75	237	555	771	843	845	781	854	796	711	510	175	0	0	0	0	0	0	7153
7	0	0	0	0	0	0	77	260	560	744	822	857	875	864	813	711	501	161	23	0	0	0	0	0	7268
8	0	0	0	0	0	0	21	44	43	99	228	673	755	760	671	573	192	50	4	0	0	0	0	0	4114
9	0	0	0	0	0	0	15	43	83	254	505	654	775	804	772	684	490	164	0	0	0	0	0	0	5244
10	0	0	0	0	0	0	14	88	450	579	529	512	533	661	814	715	460	143	0	0	0	0	0	0	5497
11	0	0	0	0	0	0	42	198	461	649	741	829	836	787	638	633	430	126	0	0	0	0	0	0	6369
12	0	0	0	0	0	0	20	179	138	239	284	143	132	452	237	320	141	24	0	0	0	0	0	0	2310
13	0	0	0	0	0	0	8	118	404	404	257	328	639	547	152	377	180	16	0	0	0	0	0	0	3430
14	0	0	0	0	0	0	44	447	807	121	400	458	26	386	260	249	165	17	0	0	0	0	0	0	3381
15	0	0	0	0	0	0	23	211	352	381	407	106	27	223	17	3	1	1	0	0	0	0	0	0	1753
16	0	0	0	0	0	0	3	7	43	32	26	40	309	226	68	39	22	7	0	0	0	0	0	0	822
17	0	0	0	0	0	0	6	21	20	22	23	31	35	34	35	42	36	11	0	0	0	0	0	0	315
18	0	0	0	0	0	0	5	12	15	8	8	10	17	13	11	7	7	9	0	0	0	0	0	0	122
19	0	0	0	0	0	0	2	24	28	109	34	40	197	51	47	54	253	100	0	0	0	0	0	0	939
20	0	0	0	0	0	0	23	244	533	759	866	806	821	481	434	670	451	96	0	0	0	0	0	0	6185
21	0	0	0	0	0	0	74	210	576	742	816	846	832	799	711	644	406	70	0	0	0	0	0	0	6726
22	0	0	0	0	0	0	12	143	113	133	222	225	37	10	25	96	8	4	0	0	0	0	0	0	1027
23	0	0	0	0	0	0	21	173	691	822	891	917	910	885	834	730	504	85	0	0	0	0	0	0	7464
24	0	0	0	0	0	0	19	72	226	354	271	258	80	33	19	9	3	2	0	0	0	0	0	0	1346
25	0	0	0	0	0	0	11	27	25	173	118	263	207	215	362	97	16	5	0	0	0	0	0	0	1520
26	0	0	0	0	0	0	2	12	30	40	84	89	57	32	20	6	1	0	0	0	0	0	0	0	373
27	0	0	0	0	0	0	0	1	4	5	13	14	12	16	23	16	26	44	0	0	0	0	0	0	175
28	0	0	0	0	0	0	13	451	722	861	935	870	970	962	738	754	390	6	0	0	0	0	0	0	7672
29	0	0	0	0	0	0	10	28	40	29	50	25	32	44	28	26	16	15	0	0	0	0	0	0	345
30	0	0	0	0	0	0	7	125	121	37	215	90	282	705	356	214	383	37	0	0	0	0	0	0	2573
31	0	0	0	0	0	0	3	18	24	26	19	15	14	14	12	5	2	0	0	0	0	0	0	0	153
Avg	0	0	0	0	0	0	27	159	317	378	429	445	465	491	419	380	269	78	2	0	0	0	0	0	3858
S/D	0	0	0	0	0	0	30	151	277	310	332	350	371	358	345	307	222	79	6	0	0	0	0	0	2874
S/A	0	0	0	0	0	0	1.1	0.95	0.88	0.82	0.77	0.79	0.8	0.73	0.82	0.81	0.83	1.01	2.95	0	0	0	0	0	0.75
Min	0	0	0	0	0	0	0	1	4	5	8	10	12	10	11	3	1	0	0	0	0	0	0	0	122
Max	0	0	0	0	0	0	113	547	807	878	935	933	970	962	876	791	630	250	23	0	0	0	0	0	8597

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 45799 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 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	11	41	54	62	68	77	77	79	71	62	47	23	0	0	0	0	0	0	672
2	0	0	0	0	0	0	5	41	92	113	131	125	170	109	102	115	69	38	0	0	0	0	0	0	1110
3	0	0	0	0	0	0	13	59	92	167	123	141	138	108	97	94	72	29	0	0	0	0	0	0	1134
4	0	0	0	0	0	0	3	43	179	275	207	332	279	152	130	109	53	22	0	0	0	0	0	0	1784
5	0	0	0	0	0	0	13	55	71	148	139	147	111	107	97	83	56	22	0	0	0	0	0	0	1050
6	0	0	0	0	0	0	13	64	88	91	102	127	181	111	103	84	61	22	0	0	0	0	0	0	1046
7	0	0	0	0	0	0	12	65	84	97	110	114	108	101	93	79	60	22	0	0	0	0	0	0	946
8	0	0	0	0	0	0	10	76	140	286	317	252	184	157	153	127	111	30	0	0	0	0	0	0	1844
9	0	0	0	0	0	0	8	75	206	227	224	214	171	160	125	96	65	29	0	0	0	0	0	0	1599
10	0	0	0	0	0	0	10	56	159	209	236	234	158	129	98	86	61	23	0	0	0	0	0	0	1459
11	0	0	0	0	0	0	10	62	95	123	194	137	134	141	178	106	70	22	0	0	0	0	0	0	1274
12	0	0	0	0	0	0	11	78	138	235	286	348	341	295	200	153	97	36	0	0	0	0	0	0	2219
13	0	0	0	0	0	0	10	85	155	216	303	315	248	244	192	141	111	24	0	0	0	0	0	0	2044
14	0	0	0	0	0	0	9	67	95	177	246	280	195	311	202	166	95	23	0	0	0	0	0	0	1868
15	0	0	0	0	0	0	13	80	106	175	324	208	180	177	135	13	5	1	0	0	0	0	0	0	1417
16	0	0	0	0	0	0	2	16	134	138	140	347	408	293	276	193	58	8	0	0	0	0	0	0	2014
17	0	0	0	0	0	0	3	34	61	97	122	185	200	277	212	186	84	13	0	0	0	0	0	0	1473
18	0	0	0	0	0	0	2	23	55	39	47	65	114	76	56	29	18	2	0	0	0	0	0	0	528
19	0	0	0	0	0	0	2	40	97	198	195	264	267	216	160	139	100	19	0	0	0	0	0	0	1699
20	0	0	0	0	0	0	6	52	76	77	87	116	199	213	232	159	65	12	0	0	0	0	0	0	1293
21	0	0	0	0	0	0	6	51	82	94	105	113	119	118	107	81	54	10	0	0	0	0	0	0	938
22	0	0	0	0	0	0	5	88	188	276	300	343	264	70	137	161	25	5	0	0	0	0	0	0	1861
23	0	0	0	0	0	0	5	63	74	72	77	81	90	83	72	60	39	8	0	0	0	0	0	0	726
24	0	0	0	0	0	0	11	78	140	179	284	331	270	225	102	38	8	1	0	0	0	0	0	0	1666
25	0	0	0	0	0	0	4	48	125	249	352	339	421	328	203	174	40	2	0	0	0	0	0	0	2286
26	0	0	0	0	0	0	1	27	151	189	309	359	350	197	104	26	5	0	0	0	0	0	0	0	1720
27	0	0	0	0	0	0	0	4	13	23	79	91	85	90	110	115	40	19	0	0	0	0	0	0	668
28	0	0	0	0	0	0	3	33	53	64	66	116	66	60	99	82	48	8	0	0	0	0	0	0	698
29	0	0	0	0	0	0	4	48	131	176	283	221	227	256	158	106	45	3	0	0	0	0	0	0	1657
30	0	0	0	0	0	0	3	46	136	197	326	305	339	160	160	154	46	6	0	0	0	0	0	0	1878
31	0	0	0	0	0	0	1	28	81	131	110	102	95	88	62	21	5	0	0	0	0	0	0	0	726
Avg	0	0	0	0	0	0	7	52	108	155	190	207	200	166	136	105	55	16	0	0	0	0	0	0	1397
S D	0	0	0	0	0	0	4	21	44	72	96	98	97	79	53	49	29	11	0	0	0	0	0	0	499
S/A	0	0	0	0	0	0	0.63	0.39	0.41	0.46	0.5	0.47	0.48	0.48	0.39	0.47	0.53	0.71	4.07	0	0	0	0	0	0.36
Min	0	0	0	0	0	0	0	4	13	23	47	65	66	60	56	13	5	0	0	0	0	0	0	0	528
Max	0	0	0	0	0	0	13	88	206	286	352	359	421	328	276	193	111	38	0	0	0	0	0	0	2286

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 8715 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