

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - April 2000**

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	25	194	426	636	792	886	706	498	323	274	216	85	17	0	0	0	0	0	5077
2	0	0	0	0	0	0	14	89	233	418	744	842	728	767	603	529	228	116	25	0	0	0	0	0	5334
3	0	0	0	0	0	0	28	138	380	561	704	800	793	774	762	417	333	153	18	0	0	0	0	0	5862
4	0	0	0	0	0	0	5	32	249	158	139	137	178	457	553	517	288	191	25	0	0	0	0	0	2930
5	0	0	0	0	0	0	41	234	478	682	847	945	982	944	739	516	362	181	27	0	0	0	0	0	6977
6	0	0	0	0	0	0	42	232	469	671	832	933	957	911	810	641	428	197	26	0	0	0	0	0	7148
7	0	0	0	0	0	0	43	226	460	663	827	935	963	908	813	603	438	200	18	0	0	0	0	0	7096
8	0	0	0	0	0	0	44	236	466	657	809	761	525	633	145	182	136	29	17	0	0	0	0	0	4639
9	0	0	0	0	0	0	51	252	495	702	865	965	995	955	838	662	449	210	32	0 ?	0	0	0	0	7471
10	0	0	0	0	0	0	52	248	483	684	850	954	983	940	823	647	437	200	29	0	0	0	0	0	7331
11	0	0	0	0	0	0	52	235	402	562	584	654	921	885	751	504	362	164	24	0	0	0	0	0	6100
12	0	0	0	0	0	0	44	226	421	422	618	845	852	654	741	506	412	192	25	0	0	0	0	0	5958
13	0	0	0	0	0	0	49	134	118	90	89	175	130	101	112	57	32	12	4	0	0	0	0	0	1102
14	0	0	0	0	0	0	9	27	56	56	81	98	142	109	98	79	61	35	5	0	0	0	0	0	858
15	0	0	0	0	0	0	12	49	150	289	489	590	464	548	794	621	429	175	36	0	0	0	0	0	4647
16	0	0	0	0	0	0	42	228	470	661	830	928	964	919	812	551	303	206	31	0	0	0	0	0	6943
17	0	0	0	0	0	0	56	295 ?	445	622	805	829	455	644	396	528	407	194	29	0	0	0	0	0	5706
18	0	0	0	0	0	1	71	252	492	690	850	947	942	889	802	492	233	143	35	0	0	0	0	0	6840
19	0	0	0	0	0	1	72	250	492	691	852	940	980	936	821	646	439	214	35	0	0	0	0	0	7368
20	0	0	0	0	0	1	87	259	500	664	849	943	973	929	820	647	403	115	41	0	0	0	0	0	7232
21	0	0	0	0	0	1	60	146	317	613	417	512	683	791	834	550	416	218	45	0	0	0	0	0	5603
22	0	0	0	0	0	1	82	269	514	716	875	968	1007	903	860	607	439	226	42	0	0	0	0	0	7508
23	0	0	0	0	0	1	82	264	501	608	755	564	644	790	665	647	399	159	22	0	0	0	0	0	6100
24	0	0	0	0	0	1	83	244	480	608	378	281	108	16	10	10	16	20	21	0	0	0	0	0	2276
25	0	0	0	0	0	2	91	282	517	601	572	691	532	803	416	490	252	128	27	0	0	0	0	0	5405
26	0	0	0	0	0	2	98	264	411	515	536	867	455	377	375	246	348	180	41	0	0	0	0	0	4714
27	0	0	0	0	0	3	83	322 ?	493	703	850	880	997	908	810	664	456	240	47	0	0	0	0	0	7456
28	0	0	0	0	0	0	8	63	280	570	821	917	878	944	834	478	252	191	16	0	0	0	0	0	6252
29	0	0	0	0	0	3	110	282	510	703	861	946	947	843	498	553	420	165	36	0	0	0	0	0	6878
30	0	0	0	0	0	4	92	298	521	723	881	976	997	946	833	654	450	234	49	0	0	0	0	0	7657
Avg	0	0	0	0	0	1	54	209	408	565	680	757	729	724	623	484	328	159	28	0	0	0	0	0	5749
S D	0	0	0	0	0	1	29	82	126	182	238	262	293	268	260	188	129	64	11	0	0	0	0	0	1821
S/A	0	0	0	0	0	1.46	0.53	0.39	0.31	0.32	0.35	0.35	0.4	0.37	0.42	0.39	0.39	0.4	0.39	0	0	0	0	0	0.32
Min	0	0	0	0	0	0	5	27	56	56	81	98	108	16	10	10	16	12	4	0	0	0	0	0	858
Max	0	0	0	0	0	4	110	322	521	723	881	976	1007	955	860	664	456	240	49	0	0	0	0	0	7657

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4663 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: 7.98 uV/Wm-2
Serial Number: 28401F3
Calibration Date: 5/19/1998

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - April 2000**

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	53	433	700	798	854	832	357	95	44	52	54	42	24	0	0	0	0	0	4338
2	0	0	0	0	0	0	18	43	87	123	528	638	297	474	290	435	187	48	85	0	0	0	0	0	3252
3	0	0	0	0	0	0	37	101	475	538	575	608	522	569	745	222	265	185	24	0	0	0	0	0	4866
4	0	0	0	0	0	0	8	10	131	25	18	16	20	171	358	479	259	416	87	0	0	0	0	0	1998
5	0	0	0	0	0	0	166	602	831	907	956	971	986	985	723	529	500	413	106	0	0	0	0	0	8675
6	0	0	0	0	0	0	160	591	816	889	937	964	954	916	923	864	761	526	109	0	0	0	0	0	9412
7	0	0	0	0	0	0	155	537	773	875	932	963	962	915	902	779	777	522	57	0	0	0	0	0	9149
8	0	0	0	0	0	0	155	573	769	824	852	496	185	344	21	62	21	13	32	0	0	0	0	0	4346
9	0	0	0	0	0	0	170	588	801	885	935	961	973	973	941	882	778	524	196	0	0	0	0	0	9607
10	0	0	0	0	0	0	161	561	782	868	921	951	956	939	901	825	712	430	70	0	0	0	0	0	9077
11	0	0	0	0	0	0	121	431	385	570	379	368	731	753	640	333	332	171	26	0	0	0	0	0	5240
12	0	0	0	0	0	0	35	300	369	110	370	657	631	451	564	495	570	383	50	0	0	0	0	0	4984
13	0	0	0	0	0	0	78	71	28	15	11	21	14	12	15	10	8	6	4	0	0	0	0	0	294
14	0	0	0	0	0	1	7	9	11	8	10	12	16	12	13	13	13	8	0	0	0	0	0	0	147
15	0	0	0	0	0	0	11	16	32	52	65	69	55	179	776	779	664	210	84	0	0	0	0	0	2991
16	0	0	0	0	0	15	41	284	701	795	876	911	933	921	885	621	388	462	102	0	0	0	0	0	7935
17	0	0	0	0	0	8	76	704	628	647	757	648	188	457	119	455	538	344	44	0	0	0	0	0	5611
18	0	0	0	0	0	5	211	492	728	819	878	906	845	778	773	360	171	174	82	0	0	0	0	0	7222
19	0	0	0	0	0	3	181	467	713	827	873	906	934	924	885	815	718	517	114	0	0	0	0	0	8877
20	0	0	0	0	0	26	237	508	735	717	892	908	912	901	870	782	599	53	61	0	0	0	0	0	8200
21	0	0	0	0	0	5	47	43	96	483	84	105	322	491	698	470	551	433	126	0	0	0	0	0	3955
22	0	0	0	0	0	11	206	498	735	832	885	900	916	781	775	658	631	474	112	0	0	0	0	0	8414
23	0	0	0	0	0	7	201	468	644	490	505	176	164	442	393	715	424	182	23	0	0	0	0	0	4835
24	0	0	0	0	0	720	109	338	449	352	57	36	12	2	1	1	3	8	56	0	0	0	0	0	2145
25	0	0	0	0	0	3	248	565	635	468	292	373	134	438	93	141	63	48	28	0	0	0	0	0	3529
26	0	0	0	0	0	13	262	363	406	380	245	572	98	161	137	113	363	316	83	0	0	0	0	0	3511
27	0	0	0	0	0	14	148	845	676	787	834	766	895	799	801	802	712	535	142	0	0	0	0	0	8757
28	0	0	0	0	0	1	4	17	212	442	729	774	647	790	731	363	148	180	12	0	0	0	0	0	5051
29	0	0	0	0	0	72	312	491	687	771	836	842	783	566	274	474	531	173	35	6	0	0	0	0	6855
30	0	0	0	0	0	24	201	533	716	810	863	888	888	870	829	739	637	464	121	21	0	0	0	0	8604
Avg	0	0	0	0	0	31	127	383	525	570	598	608	544	570	537	476	413	275	70	1	0	0	0	0	5729
S/D	0	0	0	0	0	129	86	234	273	303	343	344	373	324	340	288	263	190	45	4	0	0	0	0	2768
S/A	0	0	0	0	0	4.16	0.68	0.61	0.52	0.53	0.57	0.57	0.69	0.57	0.63	0.61	0.64	0.69	0.64	4.36	0	0	0	0	0.48
Min	0	0	0	0	0	0	4	9	11	8	10	12	12	2	1	1	3	6	4	0	0	0	0	0	147
Max	0	0	0	0	0	720	312	845	831	907	956	971	986	985	941	882	778	535	196	21	0	0	0	0	9607

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4663 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 (Shadow Band PSP)
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - April 2000

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	22	72	98	125	132	175	391	417	289	241	191	75	15	0	0	0	0	0	2244
2	0	0	0	0	0	0	12	76	189	339	335	295	465	362	380	255	134	103	24	0	0	0	0	0	2970
3	0	0	0	0	0	0	25	106	149	215	254	276	329	283	189	272	212	100	16	0	0	0	0	0	2428
4	0	0	0	0	0	0	5	29	187	142	125	123	160	313	268	209	167	78	15	0	0	0	0	0	1821
5	0	0	0	0	0	0	21	58	75	88	95	101	99	93	173	175	128	69	15	0	0	0	0	0	1191
6	0	0	0	0	0	0	22	57	70	84	91	93	101	118	90	83	70	51	14	0	0	0	0	0	945
7	0	0	0	0	0	0	24	64	78	83	87	93	96	113	107	103	71	54	11	0	0	0	0	0	984
8	0	0	0	0	0	0	24	61	84	107	130	329	358	333	129	141	125	26	17	0	0	0	0	0	1866
9	0	0	0	0	0	0	28	71	93	108	116	119	114	104	98	88	78	61	17	0	0	0	0	0	1094
10	0	0	0	0	0	0	30	72	88	99	110	113	114	117	112	107	94	77	20	0	0	0	0	0	1154
11	0	0	0	0	0	0	36	96	213	182	281	324	255	223	245	284	204	111	22	0	0	0	0	0	2475
12	0	0	0	0	0	0	40	128	233	345	316	259	276	260	290	185	135	80	19	0	0	0	0	0	2566
13	0	0	0	0	0	0	38	114	104	80	79	156	117	90	100	50	28	10	4	0	0	0	0	0	971
14	0	0	0	0	0	0	8	25	50	51	73	88	128	98	88	70	55	31	5	0	0	0	0	0	769
15	0	0	0	0	0	0	11	43	134	252	436	528	414	393	177	101	103	105	27	0	0	0	0	0	2724
16	0	0	0	0	0	0	36	124	99	108	109	108	102	99	102	132	111	67	19	0	0	0	0	0	1218
17	0	0	0	0	0	0	45	98	109	168	180	243	281	237	298	229	142	87	23	0	0	0	0	0	2142
18	0	0	0	0	0	1	38	83	103	115	123	127	159	192	176	251	152	90	24	0	0	0	0	0	1632
19	0	0	0	0	0	1	43	88	107	108	127	117	111	108	106	98	82	57	19	0	0	0	0	0	1171
20	0	0	0	0	0	1	41	83	102	153	106	117	123	120	115	120	96	99	38	0	0	0	0	0	1313
21	0	0	0	0	0	1	53	131	265	272	346	415	382	349	268	227	142	85	29	0	0	0	0	0	2964
22	0	0	0	0	0	1	47	90	111	122	132	144	149	198	230	164	122	79	28	0	0	0	0	0	1616
23	0	0	0	0	0	1	47	94	146	264	322	406	490	394	347	161	182	95	20	0	0	0	0	0	2969
24	0	0	0	0	0	1	63	121	230	358	329	248	97	14	9	9	14	18	20	0	0	0	0	0	1532
25	0	0	0	0	0	2	45	75	168	258	331	346	406	405	339	398	219	114	24	0	0	0	0	0	3130
26	0	0	0	0	0	2	52	133	206	248	333	340	363	306	267	175	161	79	28	0	0	0	0	0	2690
27	0	0	0	0	0	3	53	94	111	131	142	170	150	179	153	115	90	69	26	0	0	0	0	0	1487
28	0	0	0	0	0	0	8	57	150	241	198	199	264	223	231	234	172	132	15	0	0	0	0	0	2124
29	0	0	0	0	0	3	53	95	120	138	146	164	204	325	274	226	139	107	32	0	0	0	0	0	2026
30	0	0	0	0	0	3	55	93	112	128	141	148	152	149	148	143	121	82	31	0	0	0	0	0	1507
Avg	0	0	0	0	0	1	34	84	133	170	191	212	228	221	193	168	125	76	21	0	0	0	0	0	1857
S D	0	0	0	0	0	1	16	28	54	86	104	114	126	115	92	82	51	28	7	0	0	0	0	0	708
S/A	0	0	0	0	0	1.45	0.47	0.33	0.41	0.5	0.54	0.54	0.55	0.52	0.48	0.49	0.41	0.37	0.36	0	0	0	0	0	0.38
Min	0	0	0	0	0	0	5	25	50	51	73	88	96	14	9	9	14	10	4	0	0	0	0	0	769
Max	0	0	0	0	0	3	63	133	265	358	436	528	490	417	380	398	219	132	38	0	0	0	0	0	3130

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4663 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:	7.53 uV/Wm-2
Serial Number:	17862F3
Calibration Date:	5/19/1998