

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - March 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	0	10	111	157	283	262	233	267	194	161	169	86	4	0	0	0	0	0	1937
2	0	0	0	0	0	0	1	81	257 ?	509	712	846	908	891	787	619	401	158	6	0	0	0	0	0	6175
3	0	0	0	0	0	0	1	84	297	512	709	846	868	869	776	610	403	160	7	0	0	0	0	0	6143
4	0	0	0	0	0	0	2	89	300	523	716	846	901	877	778	611	396	159	7	0	0	0	0	0	6205
5	0	0	0	0	0	0	3	96	296	517	704	828	882	551	533	338	162	43	2	0	0	0	0	0	4955
6	0	0	0	0	0	0	1	91	290	507	686	811	457	538	270	282	222	133	3	0	0	0	0	0	4291
7	0	0	0	0	0	0	6	77	147	145	277	257	172	205	246	160	195	104	5	0	0	0	0	0	1996
8	0	0	0	0	0	0	3	86	194	338	648	672	822	604	447	394	286	79	2	0	0	0	0	0	4574
9	0	0	0	0	0	0	1	83	361	549	734	794	927	906	809	620	372	167	8	0	0	0	0	0	6332
10	0	0	0	0	0	0	4	114	342	574	769	891	958	931	823	638	417	178	11	0	0	0	0	0	6651
11	0	0	0	0	0	0	4	117	343	572	763	901	951	925	824	643	417	155	9	0	0	0	0	0	6624
12	0	0	0	0	0	0	10	92	288	548	560	746	839	570	584	504	412	149	10	0	0	0	0	0	5315
13	0	0	0	0	0	0	6	116	332	556	741	871	923	909	806	639	417	173	11	0	0	0	0	0	6500
14	0	0	0	0	0	0	9	131	350	581	772	902	959	933	825	647	421	177	12	0	0	0	0	0	6718
15	0	0	0	0	0	0	8	127	338	558	749	883	939	913	809	636	415	174	12	0	0	0	0	0	6562
16	0	0	0	0	0	0	10	116	333	557	754	873	935	905	805	627	402	115	10	0	0	0	0	0	6442
17	0	0	0	0	0	0	10	91	280	519	754	883	488	718	690	443	142	92	6	0	0	0	0	0	5116
18	0	0	0	0	0	0	4	76	245	435	299	326	160	141	181	192	99	29	3	0	0	0	0	0	2189
19	0	0	0	0	0	0	3	36	130	225	237	138	158	345	270	102	4	2	1	0	0	0	0	0	1651
20	0	0	0	0	0	0	12	125	343	554	663	517	421	605	199	120	129	16	7	0	0	0	0	0	3711
21	0	0	0	0	0	0	2	46	195	353	397	508	608	689	839	607	339	96	6	0	0	0	0	0	4685
22	0	0	0	0	0	0	13	112	168	277	514	835	995	946	850	592	298	118	8	0	0	0	0	0	5725
23	0	0	0	0	0	0	19	156	382	612	805	933	996	964	850	671	444	199	17	0	0	0	0	0	7048
24	0	0	0	0	0	0	19	156	334	552	773	897	950	925	815	636	415	182	17	0	0	0	0	0	6670
25	0	0	0	0	0	0	20	178	371	590	774	895	941	902	626	475	394	152	8	0	0	0	0	0	6327
26	0	0	0	0	0	0	18	128	270	237	687	909	970	937	825	467	126	71	16	0	0	0	0	0	5661
27	0	0	0	0	0	0	17	82	357	440	433	548	886	770	824	668	444	202	20	0	0	0	0	0	5690
28	0	0	0	0	0	0	23	162	381	596	575	810	946	933	795	562	431	185	16	0	0	0	0	0	6415
29	0	0	0	0	0	0	25	166	384	612	800	923	971	940	835	661	445	205	22	0	0	0	0	0	6988
30	0	0	0	0	0	0	26	168	396	622	812	933	969	945	838	619	294	122	34	0	0	0	0	0	6779
31	0	0	0	0	0	0	31	146	353	614	569	765	936	946	835	656	437	198	17	0	0	0	0	0	6505
Avg	0	0	0	0	0	0	10	108	296	482	635	743	776	758	664	503	321	132	10	0	0	0	0	0	5438
S D	0	0	0	0	0	0	9	39	78	138	172	223	275	240	235	184	127	56	7	0	0	0	0	0	1573
S/A	0	0	0	0	0	0	0.87	0.36	0.27	0.29	0.27	0.3	0.35	0.32	0.35	0.37	0.4	0.43	0.68	0	0	0	0	0	0.29
Min	0	0	0	0	0	0	0	10	111	145	237	138	158	141	181	102	4	2	1	0	0	0	0	0	1651
Max	0	0	0	0	0	0	31	178	396	622	812	933	996	964	850	671	445	205	34	0	0	0	0	0	7048

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 28540 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: BC
Latitude: 29.18° N
Longitude: 81.02° W
Elevation: 20 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 8.33 uV/Wm-2
Serial Number: 17800F3
Calibration Date: 9/13/96

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - March 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	1	6	98	34	44	37	29	35	28	28	87	136	13	0	0	0	0	0	578
2	0	0	0	0	0	0	5	278	912	831	951	1004	1032	1043	1016	964	865	592	50	0	0	0	0	0	9544
3	0	0	0	0	0	0	8	259	572	771	929	982	936	988	982	933	862	614	58	0	0	0	0	0	8893
4	0	0	0	0	0	0	2	287	657	823	922	971	992	993	972	924	827	590	61	0	0	0	0	0	9021
5	0	0	0	0	0	0	8	325	638	804	899	945	932	245	268	84	32	24	5	0	0	0	0	0	5208
6	0	0	0	0	0	0	9	261	589	786	833	842	175	269	65	56	205	355	6	0	0	0	0	0	4451
7	0	0	0	0	0	0	44	46	43	31	47	38	22	27	37	29	50	98	11	0	0	0	0	0	524
8	0	0	0	0	0	0	12	28	38	147	559	454	632	331	204	212	180	39	5	0	0	0	0	0	2840
9	0	0	0	0	0	0	11	178	715	795	853	774	837	957	928	836	671	510	35	0	0	0	0	0	8099
10	0	0	0	0	0	0	68	365	722	883	972	1005	1049	1044	1016	937	835	643	116	0	0	0	0	0	9656
11	0	0	0	0	0	0	20	381	715	862	935	999	1018	1020	1006	854	538	260	10	0	0	0	0	0	8618
12	0	0	0	0	0	0	32	66	459	720	421	568	668	245	233	133	38	34	24	0	0	0	0	0	3640
13	0	0	0	0	0	0	19	303	616	773	849	895	919	924	490	85	52	69	7	0	0	0	0	0	6001
14	0	0	0	0	0	0	46	440	713	870	957	1004	1026	890	120	25	32	52	25	0	0	0	0	0	6202
15	0	0	0	0	0	0	38	365	640	799	891	946	969	430	30	25	32	52	26	0	0	0	0	0	5244
16	0	0	0	0	0	0	49	298	610	771	828	856	834	87	21	32	49	58	22	0	0	0	0	0	4516
17	0	0	0	0	0	0	26	54	182	486	785	727	123	78	79	73	40	46	12	0	0	0	0	0	2710
18	0	0	0	0	0	0	7	42	189	202	39	43	20	17	26	34	20	18	84	0	0	0	0	0	743
19	0	0	0	0	0	0	1	13	30	42	37	14	17	44	37	15	1	1	0	0	0	0	0	0	253
20	0	0	0	0	0	0	22	243	537	666	541	189	51	71	27	20	33	6	20	0	0	0	0	0	2425
21	0	0	0	0	0	0	4	20	48	63	58	71	83	63	43	54	60	43	10	0	0	0	0	0	620
22	0	0	0	0	0	0	19	54	41	43	83	91	16	23	42	65	66	55	14	0	0	0	0	0	612
23	0	0	0	0	0	0	78	400	675	812	232	1	0	3	10	21	30	48	24	0	0	0	0	0	2333
24	0	0	0	0	0	0	74	369	530	554	36	11	747	935	898	827	705	483	82	0	0	0	0	0	6251
25	0	0	0	0	0	0	68	459	638	774	860	898	904	815	274	359	503	159	14	0	0	0	0	0	6725
26	0	0	0	0	0	0	45	206	247	126	436	874	960	952	901	316	27	24	17	0	0	0	0	0	5131
27	0	0	0	0	0	0	88	33	288	211	128	198	407	392	835	863	755	515	82	0	0	0	0	0	4796
28	0	0	0	0	0	0	75	331	589	616	178	421	878	920	674	379	712	425	35	0	0	0	0	0	6234
29	0	0	0	0	0	0	86	371	631	788	877	930	956	953	930	879	789	562	103	0	0	0	0	0	8852
30	0	0	0	0	0	0	83	400	656	786	895	945	884	880	922	710	162	105	110	0	0	0	0	0	7535
31	0	0	0	0	0	0	53	256	274	513	231	388	823	944	886	812	707	461	41	0	0	0	0	0	6390
Avg	0	0	0	0	0	0	36	230	461	561	558	585	611	536	452	374	322	228	36	0	0	0	0	0	4989
S D	0	0	0	0	0	0	29	147	260	311	368	392	406	416	414	380	336	229	33	0	0	0	0	0	2967
S/A	0	0	0	0	0	0	0.82	0.64	0.56	0.55	0.66	0.67	0.66	0.78	0.92	1.02	1.04	1	0.92	0	0	0	0	0	0.59
Min	0	0	0	0	0	0	1	6	30	31	36	1	0	3	10	15	1	1	0	0	0	0	0	0	253
Max	0	0	0	0	0	0	88	459	912	883	972	1005	1049	1044	1016	964	865	643	116	0	0	0	0	0	9656

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 65415 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: BC
 Latitude: 29.18° N
 Longitude: 81.02° W
 Elevation: 20 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
Bethune-Cookman College - March 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	0	9	81	139	254	234	210	240	174	145	137	66	3	0	0	0	0	0	1692	
2	0	0	0	0	0	0	1	34	54	66	73	79	83	81	80	73	61	41	4	0	0	0	0	0	728	
3	0	0	0	0	0	0	1	38	95	97	81	92	116	98	89	79	62	37	3	0	0	0	0	0	890	
4	0	0	0	0	0	0	2	38	63	80	89	97	101	99	93	82	66	39	3	0	0	0	0	0	851	
5	0	0	0	0	0	0	2	40	63	80	89	96	126	355	344	288	149	38	2	0	0	0	0	0	1673	
6	0	0	0	0	0	0	1	43	71	76	114	154	315	323	223	249	163	54	3	0	0	0	0	0	1788	
7	0	0	0	0	0	0	5	70	131	128	244	227	154	184	220	143	176	78	4	0	0	0	0	0	1765	
8	0	0	0	0	0	0	2	81	180	252	257	318	302	340	297	269	208	70	2	0	0	0	0	0	2578	
9	0	0	0	0	0	0	1	44	82	103	136	184	235	138	139	130	99	56	5	0	0	0	0	0	1352	
10	0	0	0	0	0	0	4	42	64	76	83	91	87	89	87	84	70	40	4	0	0	0	0	0	818	
11	0	0	0	0	0	0	3	41	65	82	100	102	102	99	92	132	189	90	8	0	0	0	0	0	1104	
12	0	0	0	0	0	0	9	82	95	140	262	288	280	369	412	392	?	231	?	125	?	9	0	0	0	2692
13	0	0	0	0	0	0	5	52	86	109	132	147	149	155	365	?	?	?	129	?	10	0	0	0	0	1341
14	0	0	0	0	0	0	6	42	63	74	81	87	91	200	643	?	?	?	127	?	11	0	0	0	0	1426
15	0	0	0	0	0	0	7	50	77	90	102	111	116	367	?	?	?	?	134	?	11	0	0	0	0	1064
16	0	0	0	0	0	0	8	54	82	101	150	170	223	689	?	?	?	371	?	87	9	0	0	0	0	1944
17	0	0	0	0	0	0	9	79	200	223	177	286	383	394	?	496	?	375	125	81	6	0	0	0	0	2833
18	0	0	0	0	0	0	4	67	158	318	270	291	143	127	161	170	90	25	2	0	0	0	0	0	1826	
19	0	0	0	0	0	0	3	33	117	200	210	124	143	309	242	91	3	2	1	0	0	0	0	0	0	1478
20	0	0	0	0	0	0	12	67	113	149	262	362	336	522	178	109	114	14	6	0	0	0	0	0	0	2244
21	0	0	0	0	0	0	2	41	174	314	354	417	536	463	?	557	?	293	?	281	85	6	0	0	0	3523
22	0	0	0	0	0	0	12	99	150	250	425	595	?	?	615	?	494	?	268	104	7	0	0	0	0	3018
23	0	0	0	0	0	0	16	59	84	109	407	?	?	?	?	?	?	?	137	?	16	0	0	0	0	829
24	0	0	0	0	0	0	15	68	93	211	612	?	?	164	129	127	116	96	60	10	0	0	0	0	0	1701
25	0	0	0	0	0	0	16	63	84	104	115	129	143	206	409	261	164	105	7	0	0	0	0	0	0	1805
26	0	0	0	0	0	0	14	82	160	151	346	160	118	121	129	256	115	65	15	0	0	0	0	0	0	1730
27	0	0	0	0	0	0	14	74	213	311	336	379	524	432	179	119	98	68	13	0	0	0	0	0	0	2761
28	0	0	0	0	0	0	17	74	107	207	435	446	163	139	267	327	103	72	12	0	0	0	0	0	0	2369
29	0	0	0	0	0	0	19	66	88	104	114	117	115	115	112	98	80	58	12	0	0	0	0	0	0	1100
30	0	0	0	0	0	0	19	60	86	112	110	111	175	183	118	156	213	101	24	0	0	0	0	0	0	1468
31	0	0	0	0	0	0	29	69	229	278	388	423	194	124	140	132	107	74	13	0	0	0	0	0	0	2200
Avg	0	0	0	0	0	0	8	57	110	153	220	218	201	245	250	195	142	73	8	0	0	0	0	0	0	1761
S D	0	0	0	0	0	0	7	19	48	79	136	135	119	152	165	112	79	35	5	0	0	0	0	0	0	710
S/A	0	0	0	0	0	0	0.85	0.34	0.44	0.51	0.62	0.62	0.59	0.62	0.66	0.57	0.56	0.48	0.66	0	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	0	9	54	66	73	79	83	81	80	73	3	2	1	0	0	0	0	0	0	728
Max	0	0	0	0	0	0	29	99	229	318	612	595	536	689	643	494	371	137	24	0	0	0	0	0	0	3523

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 28540 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: BC
Latitude: 29.18° N
Longitude: 81.02° W
Elevation: 20 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 8.08 uV/Wm-2
Serial Number: 17879F3
Calibration Date: 9/13/96