

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - March 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	1	76	284	370	526	627	688	792	746	582	364	128	8	0	0	0	0	0	5190
2	0	0	0	0	0	0	2	100	295	314	373	583	387	486	399	294	203	77	5	0	0	0	0	0	3517
3	0	0	0	0	0	0	2	76	262	491	685	815	724	661	687	495	291	99	7	0	0	0	0	0	5296
4	0	0	0	0	0	0	1	72	246	435	489	592	722	664	353	570	355	93	5	0	0	0	0	0	4598
5	0	0	0	0	0	0	2	58	200	440	641	609	752	869	747	502	377	123	8	0	0	0	0	0	5328
6	0	0	0	0	0	0	3	40	96	386	653	514	732	300	222	228	167	106	8	0	0	0	0	0	3457
7	0	0	0	0	0	0	3	104	275	504	705	843	897	879	725	603	399	161	9	0	0	0	0	0	6106
8	0	0	0	0	0	0	3	107	306	532	725	855	905	882	785	619	401	162	9	0	0	0	0	0	6291
9	0	0	0	0	0	0	5	120	272	532	604	844	924	880	767	626	400	104	8	0	0	0	0	0	6087
10	0	0	0	0	0	0	4	107	266	220	552	775	898	454	522	263	316	90	4	0	0	0	0	0	4472
11	0	0	0	0	0	0	4	95	245	524	709	848	905	883	763	484	298	161	7	0	0	0	0	0	5926
12	0	0	0	0	0	0	6	128	269	493	716	824	868	852	639	381	196	76	10	0	0	0	0	0	5459
13	0	0	0	0	0	0	0	15	147	213	458	175	121	344	292	236	71	54	3	0	0	0	0	0	2129
14	0	0	0	0	0	0	1	13	20	51	145	142	170	265	272	227	97	36	6	0	0	0	0	0	1445
15	0	0	0	0	0	0	9	119	297	524	739	874	935	916	814	645	415	188	15	0	0	0	0	0	6490
16	0	0	0	0	0	0	9	145	359	552	716	815	960	888	798	603	425	178	12	0	0	0	0	0	6459
17	0	0	0	0	0	0	14	126	335	529	711	777	936	907	745	627	395	157	12	0	0	0	0	0	6272
18	0	0	0	0	0	0	1	19	44	103	160	294	428	231	188	258	115	42	4	0	0	0	0	0	1888
19	0	0	0	0	0	0	11	136	338	568	715	686	651	880	489	319	312	120	7	0	0	0	0	0	5231
20	0	0	0	0	0	0	10	103	318	353	354	351	279	159	113	152	103	44	5	0	0	0	0	0	2342
21	0	0	0	0	0	0	1	22	189	294	316	258	558	671	768	350	66	42	17	0	0	0	0	0	3550
22	0	0	0	0	0	0	8	135	359	591	780	910	959	932	830	663	444	203	18	0	0	0	0	0	6831
23	0	0	0	0	0	0	14	99	270	479	642	641	439	473	633	463	213	80	5	0	0	0	0	0	4452
24	0	0	0	0	0	0	14	149	371	591	777	902	920	542	431	230	287	56	16	0	0	0	0	0	5286
25	0	0	0	0	0	0	14	82	234	485	437	746	383	869	506	485	426	165	10	0	0	0	0	0	4841
26	0	0	0	0	0	0	11	146	328	498	621	684	439	384	297	366	254	108	3	0	0	0	0	0	4141
27	0	0	0	0	0	0	19	152	355	587	761	887	954	935	824	644	385	190	17	0	0	0	0	0	6711
28	0	0	0	0	0	0	21	152	367	539	479	688	620	770	821	597	344	169	17	0	0	0	0	0	5584
29	0	0	0	0	0	0	32	163	379	591	780	675	225	? 134	? 97	77	34	14	0	0	0	0	0	0	3201
30	0	0	0	0	0	0	24	162	309	558	765	859	889	797	706	515	333	134	15	0	0	0	0	0	6066
31	0	0	0	0	0	0	19	129	340	518	836	976	1032	1001	904	710	482	236	30	0	0	0	0	0	7216
Avg	0	0	0	0	0	0	9	102	270	447	599	680	687	685	578	446	291	117	10	0	0	0	0	0	4899
S D	0	0	0	0	0	0	8	44	90	141	180	222	266	249	238	173	124	55	6	0	0	0	0	0	1533
S/A	0	0	0	0	0	0	0.91	0.43	0.33	0.32	0.3	0.33	0.39	0.36	0.41	0.39	0.43	0.47	0.57	0	0	0	0	0	0.31
Min	0	0	0	0	0	0	0	13	20	51	145	142	121	159	113	97	66	34	3	0	0	0	0	0	1445
Max	0	0	0	0	0	0	32	163	379	591	836	976	1032	1001	904	710	482	236	30	0	0	0	0	0	7216

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 12110 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 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	6	175	445	402	484	469	500	742	835	802	600	240	10	0	0	0	0	0	5709
2	0	0	0	0	0	0	4	202	506	149	136	248	82	201	113	134	61	39	52	0	0	0	0	0	1928
3	0	0	0	0	0	0	17	36	268	688	799	756	595	512	651	497	343	154	43	0	0	0	0	0	5358
4	0	0	0	0	0	0	8	46	243	391	165	254	415	549	183	687	581	141	8	0	0	0	0	0	3672
5	0	0	0	0	0	0	4	37	129	443	646	466	661	903	846	626	663	290	43	0	0	0	0	0	5758
6	0	0	0	0	0	0	2	34	35	273	596	240	524	152	33	48	66	141	47	0	0	0	0	0	2192
7	0	0	0	0	0	0	8	266	485	696	819	883	914	854	632	826	759	509	54	0	0	0	0	0	7707
8	0	0	0	0	0	0	11	309	616	807	896	937	948	954	944	888	781	525	62	0	0	0	0	0	8679
9	0	0	0	0	0	0	13	426	498	764	562	791	971	934	889	907	749	192	10	0	0	0	0	0	7708
10	0	0	0	0	0	0	70	246	360	42	239	663	796	183	352	84	355	50	12	0	0	0	0	0	3451
11	0	0	0	0	0	0	21	149	283	710	830	914	947	918	819	528	359	415	28	0	0	0	0	0	6921
12	0	0	0	0	0	0	22	170	378	570	709	763	762	760	466	139	58	49	21	0	0	0	0	0	4867
13	0	0	0	0	0	0	3	9	42	38	102	26	17	50	55	38	16	29	8	0	0	0	0	0	432
14	0	0	0	0	0	0	1	10	6	11	25	20	20	44	50	33	23	18	22	0	0	0	0	0	284
15	0	0	0	0	0	0	56	315	427	622	844	920	960	974	960	904	734	473	73	0	0	0	0	0	8264
16	0	0	0	0	0	0	37	383	536	619	623	638	822	878	892	758	775	451	29	0	0	0	0	0	7441
17	0	0	0	0	0	0	34	172	508	535	571	600	864	861	659	743	548	198	27	0	0	0	0	0	6319
18	0	0	0	0	0	0	3	11	12	23	25	38	52	38	34	55	34	24	9	0	0	0	0	0	360
19	0	0	0	0	0	0	36	294	546	708	724	508	441	720	290	206	351	101	11	0	0	0	0	0	4936
20	0	0	0	0	0	0	15	39	168	51	45	54	38	26	19	32	26	22	12	0	0	0	0	0	547
21	0	0	0	0	0	0	2	11	56	76	76	20	256	390	676	257	20	62	36	0	0	0	0	0	1939
22	0	0	0	0	0	0	16	183	492	789	907	966	979	978	963	927	836	637	127	0	0	0	0	0	8799
23	0	0	0	0	0	0	28	67	144	195	312	280	68	35	317	189	61	42	9	0	0	0	0	0	1746
24	0	0	0	0	0	0	35	325	588	716	807	839	695	180	143	138	257	56	21	0	0	0	0	0	4799
25	0	0	0	0	0	0	28	53	97	307	121	344	52	594	108	350	593	264	10	0	0	0	0	0	2919
26	0	0	0	0	0	0	14	63	250	448	455	246	51	53	54	110	96	39	8	0	0	0	0	0	1886
27	0	0	0	0	0	0	116	95	431	677	738	809	894	921	886	775	498	396	49	0	0	0	0	0	7285
28	0	0	0	0	0	0	36	172	471	409	192	412	332	559	770	630	459	231	41	0	0	0	0	0	4713
29	0	0	0	0	0	0	39	156	533	696	795	338	37	5	20	22	23	10	40	0	0	0	0	0	2713
30	0	0	0	0	0	0	55	166	190	580	746	728	733	569	580	396	335	162	14	0	0	0	0	0	5254
31	0	0	0	0	0	0	32	133	322	413	918	1008	1047	1049	1037	989	902	726	213	0	0	0	0	0	8788
Avg	0	0	0	0	0	0	25	153	325	447	513	522	531	535	493	443	386	216	37	0	0	0	0	0	4625
S/D	0	0	0	0	0	0	24	118	190	260	308	319	365	366	359	338	297	200	41	0	0	0	0	0	2703
S/A	0	0	0	0	0	0	0.97	0.77	0.59	0.58	0.6	0.61	0.69	0.68	0.73	0.76	0.77	0.93	1.1	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	1	9	6	11	25	20	17	5	19	22	16	10	8	0	0	0	0	0	284
Max	0	0	0	0	0	0	116	426	616	807	918	1008	1047	1049	1037	989	902	726	213	0	0	0	0	0	8799

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 12110 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 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	1	48	127	159	207	270	290	218	167	131	125	80	7	0	0	0	0	0	1830
2	0	0	0	0	0	0	2	67	116	241	285	394	322	330	321	216	177	68	5	0	0	0	0	0	2544
3	0	0	0	0	0	0	2	70	157	123	145	233	246	261	232	212	163	74	6	0	0	0	0	0	1923
4	0	0	0	0	0	0	1	65	151	232	379	398	388	234	221	177	122	58	5	0	0	0	0	0	2430
5	0	0	0	0	0	0	2	52	148	194	196	246	216	158	148	144	110	57	6	0	0	0	0	0	1674
6	0	0	0	0	0	0	3	36	84	229	237	329	305	177	199	200	143	80	6	0	0	0	0	0	2029
7	0	0	0	0	0	0	3	53	87	120	137	151	148	198	274	124	89	53	6	0	0	0	0	0	1442
8	0	0	0	0	0	0	3	49	73	83	100	117	125	119	108	99	80	49	6	0	0	0	0	0	1011
9	0	0	0	0	0	0	4	49	83	103	219	216	121	130	128	93	87	62	8	0	0	0	0	0	1303
10	0	0	0	0	0	0	4	57	138	196	380	243	237	305	266	216	160	78	3	0	0	0	0	0	2283
11	0	0	0	0	0	0	4	71	122	120	121	116	116	139	164	163	141	68	5	0	0	0	0	0	1348
12	0	0	0	0	0	0	6	94	111	167	209	210	230	233	298	294	171	66	8	0	0	0	0	0	2098
13	0	0	0	0	0	0	0	14	130	190	388	155	106	304	252	213	65	47	3	0	0	0	0	0	1866
14	0	0	0	0	0	0	1	11	18	45	127	126	149	229	235	208	87	32	5	0	0	0	0	0	1273
15	0	0	0	0	0	0	7	54	130	150	125	123	120	114	104	98	99	79	9	0	0	0	0	0	1211
16	0	0	0	0	0	0	8	64	137	184	262	291	259	163	133	146	90	66	10	0	0	0	0	0	1814
17	0	0	0	0	0	0	13	91	119	216	290	283	196	193	256	173	153	111	10	0	0	0	0	0	2104
18	0	0	0	0	0	0	1	17	38	90	142	262	383	199	163	225	100	37	3	0	0	0	0	0	1659
19	0	0	0	0	0	0	9	68	104	140	175	265	271	277	271	194	155	99	7	0	0	0	0	0	2035
20	0	0	0	0	0	0	9	94	246	322	320	306	246	137	98	133	91	39	5	0	0	0	0	0	2045
21	0	0	0	0	0	0	1	19	163	248	258	238	335	340	256	182	56	31	16	0	0	0	0	0	2144
22	0	0	0	0	0	0	7	89	138	104	96	96	105	105	98	84	70	47	8	0	0	0	0	0	1048
23	0	0	0	0	0	0	12	82	210	356	401	405	380	443	395	343	186	70	5	0	0	0	0	0	3286
24	0	0	0	0	0	0	12	67	108	144	162	190	308	389	320	149	164	45	16	0	0	0	0	0	2073
25	0	0	0	0	0	0	13	70	188	291	341	454	337	363	420	271	156	92	9	0	0	0	0	0	3005
26	0	0	0	0	0	0	10	130	206	215	270	477	394	339	256	300	209	97	3	0	0	0	0	0	2904
27	0	0	0	0	0	0	17	125	151	156	190	191	159	143	138	150	152	89	12	0	0	0	0	0	1674
28	0	0	0	0	0	0	20	104	145	279	327	335	323	290	222	189	133	107	15	0	0	0	0	0	2487
29	0	0	0	0	0	0	32	118	128	141	160	387	192	?	115	?	83	67	31	13	0	0	0	0	1467
30	0	0	0	0	0	0	21	120	211	183	178	225	230	299	252	257	189	88	13	0	0	0	0	0	2267
31	0	0	0	0	0	0	16	93	198	245	112	96	89	88	92	73	63	46	11	0	0	0	0	0	1221
Avg	0	0	0	0	0	0	8	69	134	183	224	253	236	231	213	179	124	66	8	0	0	0	0	0	1919
S/D	0	0	0	0	0	0	7	32	49	71	92	105	94	92	86	67	43	22	4	0	0	0	0	0	561
S/A	0	0	0	0	0	0	0.94	0.46	0.37	0.39	0.41	0.42	0.4	0.4	0.38	0.34	0.34	0.49	0	0	0	0	0	0	0.29
Min	0	0	0	0	0	0	0	11	18	45	96	96	89	88	92	73	56	31	3	0	0	0	0	0	1011
Max	0	0	0	0	0	0	32	130	246	356	401	477	394	443	420	343	209	111	16	0	0	0	0	0	3286

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 12110 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