

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - February 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	0	26	171	435	512	702	760	740	644	471	250	56	0	0	0	0	0	0	4766
2	0	0	0	0	0	0	0	30	167	345	445	701	681	512	432	209	102	63	0	0	0	0	0	0	3685
3	0	0	0	0	0	0	0	34	179	285	497	642	708	694	584	464	265	66	0	0	0	0	0	0	4417
4	0	0	0	0	0	0	0	31	208	370	550	681	734	727	474	391	164	44	0	0	0	0	0	0	4374
5	0	0	0	0	0	0	0	20	107	191	339	603	631	621	599	286	212	33	0	0	0	0	0	0	3642
6	0	0	0	0	0	0	0	29	175	372	550	647	695	602	387	182	68	19	0	0	0	0	0	0	3726
7	0	0	0	0	0	0	0	29	44	105	116	207	171	201	109	157	158	58	0	0	0	0	0	0	1355
8	0	0	0	0	0	0	0	28	64	116	386	289	224	155	240	148	133	73	0	0	0	0	0	0	1857
9	0	0	0	0	0	0	0	43	233	409	588	706	661	634	596	456	221	60	0	0	0	0	0	0	4608
10	0	0	0	0	0	0	0	8	27	64	77	45	87	134	167	55	70	43	1	0	0	0	0	0	777
11	0	0	0	0	0	0	0	30	210	327	550	598	691	774	688	527	319	96	0	0	0	0	0	0	4811
12	0	0	0	0	0	0	0	47	190	398	599	733	791	771	680	520	289	88	0	0	0	0	0	0	5108
13	0	0	0	0	0	0	0	33	192	344	541	599	644	714	515	305	193	61	1	0	0	0	0	0	4142
14	0	0	0	0	0	0	0	34	189	303	487	616	699	589	455	257	164	38	2	0	0	0	0	0	3833
15	0	0	0	0	0	0	0	27	120	82	137	424	273	279	190	125	46	25	0	0	0	0	0	0	1729
16	0	0	0	0	0	0	0	25	74	210	294	355	497	446	418	317	214	69	1	0	0	0	0	0	2920
17	0	0	0	0	0	0	0	66	194	456	640	772	833	813	718	554	343	115	2	0	0	0	0	0	5508
18	0	0	0	0	0	0	0	50	226	439	634	580	409	535	303	414	325	90	2	0	0	0	0	0	4008
19	0	0	0	0	0	0	0	37	192	349	330	430	418	729	685	448	328	96	2	0	0	0	0	0	4043
20	0	0	0	0	0	0	0	58	230	447	634	744	822	816	704	419	256	61	3	0	0	0	0	0	5195
21	0	0	0	0	0	0	0	55	232	288	328	394	666	476	704	477	316	108	3	0	0	0	0	0	4047
22	0	0	0	0	0	0	0	68	241	456	642	766	821	775	680	128	45	9	0	0	0	0	0	0	4630
23	0	0	0	0	0	0	0	66	233	450	607	614	747	591	178	220	148	55	2	0	0	0	0	0	3912
24	0	0	0	0	0	0	0	14	45	97	188	255	722	712	442	486	202	73	2	0	0	0	0	0	3239
25	0	0	0	0	0	0	0	44	81	215	341	318	355	121	85	102	91	36	1	0	0	0	0	0	1792
26	0	0	0	0	0	0	0	37	205	428	552	714	758	509	550	565	326	123	3	0	0	0	0	0	4769
27	0	0	0	0	0	0	1	94	236	444	600	633	696	467	361	219	250	89	4	0	0	0	0	0	4095
28	0	0	0	0	0	0	1	86	274	474	647	797	862	836	660	472	223	128	6	0	0	0	0	0	5467
Avg	0	0	0	0	0	0	0	41	169	318	458	556	609	571	473	335	204	67	1	0	0	0	0	0	3802
S D	0	0	0	0	0	0	0	20	69	130	171	194	212	214	199	155	91	31	1	0	0	0	0	0	1240
S/A	0	0	0	0	0	0	2.13	0.49	0.41	0.41	0.37	0.35	0.35	0.38	0.42	0.46	0.45	0.46	1.08	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	0	8	27	64	77	45	87	121	85	55	45	9	0	0	0	0	0	0	777
Max	0	0	0	0	0	0	1	94	274	474	647	797	862	836	718	565	343	128	6	0	0	0	0	0	5508

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 7651 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 - February 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	0	123	475	876	791	986	1017	950	180	47	65	34	0	0	0	0	0	0	5544
2	0	0	0	0	0	0	0	67	329	523	513	672	478	104	67	39	28	47	0	0	0	0	0	0	2868
3	0	0	0	0	0	0	0	127	436	407	597	760	835	823	749	782	637	277	5	0	0	0	0	0	6435
4	0	0	0	0	0	0	0	107	516	617	745	819	832	722	292	354	89	22	0	0	0	0	0	0	5115
5	0	0	0	0	0	0	0	54	39	38	168	484	567	577	668	252	302	66	5	0	0	0	0	0	3222
6	0	0	0	0	0	0	0	52	341	570	719	688	677	449	150	28	14	12	1	0	0	0	0	0	3701
7	0	0	0	0	0	0	0	32	14	17	14	22	16	20	12	25	44	25	1	0	0	0	0	0	240
8	0	0	0	0	0	0	0	28	23	21	66	38	22	16	20	20	40	16	3	0	0	0	0	0	312
9	0	0	0	0	0	0	0	160	605	723	828	842	542	399	223	64	50	14	0	0	0	0	0	0	4451
10	0	0	0	0	0	0	0	8	8	11	9	5	8	13	19	8	19	33	1	0	0	0	0	0	141
11	0	0	0	0	0	0	0	74	502	313	453	364	446	531	57	52	72	55	0	0	0	0	0	0	2920
12	0	0	0	0	0	0	0	1537	324	637	839	909	913	216	34	46	73	50	8	0	0	0	0	0	5586
13	0	0	0	0	0	0	0	38	250	247	418	483	385	78	80	63	92	10	2	0	0	0	0	0	2145
14	0	0	0	0	0	0	0	17	150	199	403	530	538	448	284	123	125	19	10	0	0	0	0	0	2846
15	0	0	0	0	0	0	0	19	37	16	22	104	27	37	27	23	14	16	2	0	0	0	0	0	343
16	0	0	0	0	0	0	0	25	25	30	35	54	91	69	95	89	136	37	1	0	0	0	0	0	689
17	0	0	0	0	0	0	0	139	382	780	888	947	975	971	943	875	741	419	24	0	0	0	0	0	8084
18	0	0	0	0	0	0	0	115	465	686	797	323	86	235	43	326	597	178	7	0	0	0	0	0	3858
19	0	0	0	0	0	0	0	44	312	313	88	143	114	662	790	500	547	229	4	0	0	0	0	0	3747
20	0	0	0	0	0	0	0	195	487	720	829	828	946	975	892	320	213	71	5	0	0	0	0	0	6482
21	0	0	0	0	0	0	0	128	493	166	92	125	517	287	780	607	556	279	3	0	0	0	0	0	4033
22	0	0	0	0	0	0	0	214	546	759	871	922	941	863	699	68	13	4	2	0	0	0	0	0	5901
23	0	0	0	0	0	0	0	130	428	628	654	581	683	326	28	29	38	30	33	0	0	0	0	0	3590
24	0	0	0	0	0	0	3	13	14	18	29	36	547	492	113	466	101	58	13	0	0	0	0	0	1903
25	0	0	0	0	0	0	9	40	23	56	71	42	41	16	12	20	23	22	6	0	0	0	0	0	380
26	0	0	0	0	0	0	7	27	163	543	516	592	687	302	538	813	571	381	8	0	0	0	0	0	5147
27	0	0	0	0	0	0	4	183	468	653	676	597	520	277	187	69	316	145	13	0	0	0	0	0	4107
28	0	0	0	0	0	0	2	283	590	503	762	890	942	887	691	523	169	211	4	0	0	0	0	0	6457
Avg	0	0	0	0	0	0	1	142	302	395	461	492	514	419	310	237	203	99	6	0	0	0	0	0	3580
S D	0	0	0	0	0	0	2	277	206	289	326	338	339	324	319	269	227	116	7	0	0	0	0	0	2186
S/A	0	0	0	0	0	0	2.46	1.95	0.68	0.73	0.71	0.69	0.66	0.77	1.03	1.14	1.12	1.18	1.28	0	0	0	0	0	0.61
Min	0	0	0	0	0	0	0	8	8	11	9	5	8	13	12	8	13	4	0	0	0	0	0	0	141
Max	0	0	0	0	0	0	9	1537	605	876	888	986	1017	975	943	875	741	419	33	0	0	0	0	0	8084

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 7651 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 - February 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	0	15	48	61	63	60	63	108	407 ?	?	185 ?	52	0	0	0	0	0	0	1062
2	0	0	0	0	0	0	0	25	76	119	161	259	352	442	350	190	94	57	0	0	0	0	0	0	2126
3	0	0	0	0	0	0	0	22	64	119	150	142	129	141	141	96	70	28	0	0	0	0	0	0	1103
4	0	0	0	0	0	0	0	21	72	100	124	139	155	237	301	220	138	41	0	0	0	0	0	0	1550
5	0	0	0	0	0	0	0	18	96	174	242	280	234	230	198	160	110	25	0	0	0	0	0	0	1766
6	0	0	0	0	0	0	0	23	81	119	134	189	219	294	293	168	63	18	0	0	0	0	0	0	1602
7	0	0	0	0	0	0	0	26	41	97	108	192	159	188	102	146	144	54	0	0	0	0	0	0	1257
8	0	0	0	0	0	0	0	28	58	106	328	263	209	144	228	139	121	65	0	0	0	0	0	0	1689
9	0	0	0	0	0	0	0	24	65	83	101	134	275	354	428 ?	341 ?	136 ?	58	0	0	0	0	0	0	2000
10	0	0	0	0	0	0	0	7	25	59	71	42	82	126	155	51	65	39	1	0	0	0	0	0	722
11	0	0	0	0	0	0	0	21	67	192	278	349	368	340	?	?	?	87	0	0	0	0	0	0	1703 ?
12	0	0	0	0	0	0	0	30	95	98	96	106	128	419 ?	?	?	232 ?	79	0	0	0	0	0	0	1283 ?
13	0	0	0	0	0	0	0	30	121	236	289	268	362	523 ?	453	273	165	60	1	0	0	0	0	0	2781
14	0	0	0	0	0	0	0	35	141	214	243	247	304	268	274	193	122	36	1	0	0	0	0	0	2079
15	0	0	0	0	0	0	0	24	110	74	124	350	253	252	172	112	42	23	0	0	0	0	0	0	1537
16	0	0	0	0	0	0	0	22	67	196	272	317	429	397	356	272	168	62	1	0	0	0	0	0	2559
17	0	0	0	0	0	0	0	47	71	82	91	100	105	108	106	98	82	44	2	0	0	0	0	0	936
18	0	0	0	0	0	0	0	33	82	108	138	354	345	361	275	248	114	54	2	0	0	0	0	0	2113
19	0	0	0	0	0	0	0	32	94	201	273	327	332	246	167	175	134	53	2	0	0	0	0	0	2037
20	0	0	0	0	0	0	0	32	76	94	111	146	104	96	115	244	172	50	2	0	0	0	0	0	1243
21	0	0	0	0	0	0	0	35	75	209	267	302	271	262	187	154	114	57	3	0	0	0	0	0	1935
22	0	0	0	0	0	0	0	36	64	78	85	93	99	130	213	85	40	8	0	0	0	0	0	0	932
23	0	0	0	0	0	0	0	47	89	136	188	187	220	344	159	205	134	50	2	0	0	0	0	0	1760
24	0	0	0	0	0	0	0	13	40	88	170	228	297	337	364	237	168	61	2	0	0	0	0	0	2005
25	0	0	0	0	0	0	0	39	73	186	296	287	324	109	77	92	82	33	1	0	0	0	0	0	1599
26	0	0	0	0	0	0	0	34	143	144	216	273	221	282	183	116	106	48	2	0	0	0	0	0	1767
27	0	0	0	0	0	0	1	63	74	107	161	179	287	252	232	180	131	56	4	0	0	0	0	0	1727
28	0	0	0	0	0	0	1	40	73	209	138	125	117	155	179	181	154	98	6	0	0	0	0	0	1475
Avg	0	0	0	0	0	0	0	29	78	132	176	212	230	255	235	175	122	50	1	0	0	0	0	0	1655
S/D	0	0	0	0	0	0	0	11	27	53	78	92	101	114	104	68	45	20	1	0	0	0	0	0	474
S/A	0	0	0	0	0	0	2.63	0.39	0.34	0.4	0.44	0.43	0.44	0.45	0.44	0.39	0.37	0.39	1.1	0	0	0	0	0	0.29
Min	0	0	0	0	0	0	0	7	25	59	63	42	63	96	77	51	40	8	0	0	0	0	0	0	722
Max	0	0	0	0	0	0	1	63	143	236	328	354	429	523	453	341	232	98	6	0	0	0	0	0	2781

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 7651 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