

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - January 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	23	169	361	499	592	546	491	356	293	141	12	0	0	0	0	0	0	3482
2	0	0	0	0	0	0	0	16	90	140	147	191	330	241	252	251	107	9	0	0	0	0	0	0	1774
3	0	0	0	0	0	0	0	14	82	206	446	572	544	314	414	288	95	10	0	0	0	0	0	0	2985
4	0	0	0	0	0	0	0	14	146	330	488	500	422	460	418	242	85	14	0	0	0	0	0	0	3117
5	0	0	0	0	0	0	0	22	145	326	477	591	634	604	414	290	115	19	0	0	0	0	0	0	3637
6	0	0	0	0	0	0	0	30	87	271	295	281	495	512	295	237	103	12	0	0	0	0	0	0	2617
7	0	0	0	0	0	0	0	10	69	129	206	320	341	347	228	228	133	19	0	0	0	0	0	0	2031
8	0	0	0	0	0	0	0	1	14	33	58	28	?	33	184	270	277	133	15	0	0	0	0	0	1047
9	0	0	0	0	0	0	0	17	98	250	435	376	514	413	223	212	115	13	0	0	0	0	0	0	2666
10	0	0	0	0	0	0	0	23	134	339	?	520	610	678	653	555	400	200	25	0	0	0	0	0	4139
11	0	0	0	0	0	0	0	25	138	324	557	635	687	664	567	411	208	30	0	0	0	0	0	0	4247
12	0	0	0	0	0	0	0	24	141	243	484	623	646	602	537	353	224	31	0	0	0	0	0	0	3908
13	0	0	0	0	0	0	0	33	117	233	305	280	390	329	244	192	110	11	0	0	0	0	0	0	2245
14	0	0	0	0	0	0	0	5	47	77	164	470	380	245	217	112	48	8	0	0	0	0	0	0	1772
15	0	0	0	0	0	0	0	3	42	52	57	145	131	40	?	?	27	?	18	3	0	0	0	0	518
16	0	0	0	0	0	0	0	7	139	380	543	643	700	677	582	427	228	41	0	0	0	0	0	0	4366
17	0	0	0	0	0	0	0	7	93	315	517	620	699	677	573	399	223	39	0	0	0	0	0	0	4161
18	0	0	0	0	0	0	0	19	119	321	?	495	631	704	651	472	407	192	27	0	0	0	0	0	4038
19	0	0	0	0	0	0	0	16	82	178	338	491	353	111	304	242	160	28	0	0	0	0	0	0	2302
20	0	0	0	0	0	0	0	21	174	372	541	657	702	657	597	355	101	26	0	0	0	0	0	0	4203
21	0	0	0	0	0	0	0	15	73	233	299	436	384	258	308	206	59	16	0	0	0	0	0	0	2286
22	0	0	0	0	0	0	0	23	150	337	471	375	409	268	347	228	114	19	0	0	0	0	0	0	2740
23	0	0	0	0	0	0	0	1	18	67	94	64	191	179	419	268	124	39	0	0	0	0	0	0	1464
24	0	0	0	0	0	0	0	13	62	98	152	77	177	250	245	311	155	27	0	0	0	0	0	0	1567
25	0	0	0	0	0	0	0	8	108	299	475	611	730	644	515	458	259	56	0	0	0	0	0	0	4164
26	0	0	0	0	0	0	0	19	102	174	238	244	305	80	197	129	54	17	0	0	0	0	0	0	1560
27	0	0	0	0	0	0	0	13	93	179	185	305	279	173	356	346	220	46	0	0	0	0	0	0	2196
28	0	0	0	0	0	0	0	25	183	392	569	696	754	736	639	479	274	65	0	0	0	0	0	0	4810
29	0	0	0	0	0	0	0	29	172	372	509	636	694	679	473	256	100	16	0	0	0	0	0	0	3935
30	0	0	0	0	0	0	0	30	176	397	567	685	733	710	609	458	259	44	0	0	0	0	0	0	4669
31	0	0	0	0	0	0	0	31	152	323	500	695	750	735	643	470	281	70	0	0	0	0	0	0	4650
Avg	0	0	0	0	0	0	0	17	110	250	375	454	495	438	409	299	150	26	0	0	0	0	0	0	3009
S D	0	0	0	0	0	0	0	9	46	109	166	205	206	222	143	110	70	17	0	0	0	0	0	0	1192
S/A	0	0	0	0	0	0	0	0.52	0.42	0.44	0.44	0.45	0.42	0.51	0.35	0.37	0.47	0.64	0	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	0	1	14	33	57	28	33	40	197	27	18	3	0	0	0	0	0	0	518
Max	0	0	0	0	0	0	0	33	183	397	569	696	754	736	643	479	281	70	0	0	0	0	0	0	4810

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 20335 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 - January 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	0	69	391	683	824	839	420	248	247	219	256	30	0	0	0	0	0	0	4226
2	0	0	0	0	0	0	0	18	19	29	16	21	33	28	40	99	142	11	0	0	0	0	0	0	457
3	0	0	0	0	0	0	0	17	24	78	403	533	626	54	273	197	79	8	0	0	0	0	0	0	2292
4	0	0	0	0	0	0	0	30	316	670	787	527	163	321	399	107	21	12	0	0	0	0	0	0	3353
5	0	0	0	0	0	0	0	61	400	639	759	858	876	868	488	516	213	74	0	0	0	0	0	0	5750
6	0	0	0	0	0	0	0	16	20	85	58	41	280	436	169	263	182	19	0	0	0	0	0	0	1570
7	0	0	0	0	0	0	0	14	20	21	30	95	86	161	129	317	307	82	0	0	0	0	0	0	1260
8	0	0	0	0	0	0	0	1	5	5	7	3	4	23	128	237	193	4	0	0	0	0	0	0	610
9	0	0	0	0	0	0	0	12	13	223	553	260	525	260	30	138	74	14	0	0	0	0	0	0	2102
10	0	0	0	0	0	0	0	24	33	702	865	863	967	979	951	887	708	190	0	0	0	0	0	0	7168
11	0	0	0	0	0	0	0	13	82	555	973	967	1005	1013	988	924	750	310	0	0	0	0	0	0	7580
12	0	0	0	0	0	0	0	18	153	406	830	927	889	779	726	618	556	168	0	0	0	0	0	0	6070
13	0	0	0	0	0	0	0	37	31	59	84	31	104	68	65	74	101	23	0	0	0	0	0	0	677
14	0	0	0	0	0	0	0	6	14	12	18	197	90	31	32	19	15	8	0	0	0	0	0	0	442
15	0	0	0	0	0	0	0	3	13	9	7	16	13	3	1	3	5	4	0	0	0	0	0	0	78
16	0	0	0	0	0	0	0	4	153	554	813	923	974	986	971	914	767	301	0	0	0	0	0	0	7361
17	0	0	0	0	0	0	0	3	85	341	709	814	987	998	950	810	741	297	0	0	0	0	0	0	6735
18	0	0	0	0	0	0	0	30	184	987	727	873	982	852	545	723	416	83	0	0	0	0	0	0	6402
19	0	0	0	0	0	0	0	10	11	49	248	360	87	11	75	100	229	92	0	0	0	0	0	0	1272
20	0	0	0	0	0	0	0	48	480	788	896	949	963	912	936	505	33	26	0	0	0	0	0	0	6536
21	0	0	0	0	0	0	0	18	24	251	87	227	102	28	176	78	52	12	0	0	0	0	0	0	1056
22	0	0	0	0	0	0	0	30	269	543	333	112	116	52	154	196	74	9	0	0	0	0	0	0	1888
23	0	0	0	0	0	0	0	2	6	11	12	7	21	20	159	76	19	108	0	0	0	0	0	0	442
24	0	0	0	0	0	0	0	11	18	17	20	8	15	26	72	262	118	20	0	0	0	0	0	0	588
25	0	0	0	0	0	0	0	8	33	155	431	743	952	734	591	827	764	344	0	0	0	0	0	0	5581
26	0	0	0	0	0	0	0	61	25	34	32	27	39	9	24	20	13	10	0	0	0	0	0	0	293
27	0	0	0	0	0	0	0	20	25	30	39	96	157	20	253	381	420	109	0	0	0	0	0	0	1551
28	0	0	0	0	0	0	0	110	553	803	914	984	1022	1031	1007	948	815	421	0	0	0	0	0	0	8607
29	0	0	0	0	0	0	0	148	498	724	775	793	787	686	359	74	28	12	0	0	0	0	0	0	4885
30	0	0	0	0	0	0	0	164	500	821	908	952	966	956	907	844	693	197	0	0	0	0	0	0	7908
31	0	0	0	0	0	0	0	200	441	650	797	981	1002	1008	988	895	798	404	0	0	0	0	0	0	8163
Avg	0	0	0	0	0	0	0	39	156	353	450	485	492	439	414	396	309	110	0	0	0	0	0	0	3642
S D	0	0	0	0	0	0	0	49	185	320	369	393	416	416	366	333	293	129	0	0	0	0	0	0	2910
S/A	0	0	0	0	0	0	0	1.27	1.19	0.91	0.82	0.81	0.84	0.95	0.88	0.84	0.95	1.18	0	0	0	0	0	0	0.8
Min	0	0	0	0	0	0	0	1	5	5	7	3	4	3	1	3	5	4	0	0	0	0	0	0	78
Max	0	0	0	0	0	0	0	200	553	987	973	984	1022	1031	1007	948	815	421	0	0	0	0	0	0	8607

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 57210 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 - January 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	16	82	94	80	101	290	347	228	216	85	10	0	0	0	0	0	0	1548
2	0	0	0	0	0	0	0	16	86	128	139	179	310	224	232	213	78	8	0	0	0	0	0	0	1613
3	0	0	0	0	0	0	0	13	77	173	243	258	160	282	278	235	80	10	0	0	0	0	0	0	1809
4	0	0	0	0	0	0	0	12	74	70	86	194	322	273	213	201	80	13	0	0	0	0	0	0	1537
5	0	0	0	0	0	0	0	17	52	79	89	86	95	94	169	98	62	14	0	0	0	0	0	0	856
6	0	0	0	0	0	0	0	31	83	235	266	256	322	257	204	145	58	12	0	0	0	0	0	0	1870
7	0	0	0	0	0	0	0	10	64	121	191	264	288	253	162	109	68	13	0	0	0	0	0	0	1542
8	0	0	0	0	0	0	0	1	13	31	55	26 ?	30	171	209	183	83	15	0	0	0	0	0	0	817
9	0	0	0	0	0	0	0	16	94	158	150	226	187	255	208	162	98	12	0	0	0	0	0	0	1567
10	0	0	0	0	0	0	0	21	128	123	79	95	75	68	62	54	38	8	0	0	0	0	0	0	751
11	0	0	0	0	0	0	0	27	117	101	55	57	58	57	53	48	35	7	0	0	0	0	0	0	615
12	0	0	0	0	0	0	0	25	108	80	53	68	88	131	154	147	93	19	0	0	0	0	0	0	966
13	0	0	0	0	0	0	0	36	111	210	260	262	324	287	209	164	82	9	0	0	0	0	0	0	1955
14	0	0	0	0	0	0	0	5	44	72	154	349	323	226	200	104	44	7	0	0	0	0	0	0	1529
15	0	0	0	0	0	0	0	3	39	49	53	136	123	38 ?	? 25 ?	104	44	7	0	0	0	0	0	0	484
16	0	0	0	0	0	0	0	8	97	165	117	82	80	74	63	54	39	13	0	0	0	0	0	0	790
17	0	0	0	0	0	0	0	7	72	176	140	123	68	63	62	66	38	11	0	0	0	0	0	0	825
18	0	0	0	0	0	0	0	16	75	95	110	97	74	123	180	105	85	18	0	0	0	0	0	0	978
19	0	0	0	0	0	0	0	15	79	157	201	272	296	105	263	204	109	17	0	0	0	0	0	0	1718
20	0	0	0	0	0	0	0	16	58	57	64	72	79	88	85	132	92	24	0	0	0	0	0	0	769
21	0	0	0	0	0	0	0	14	68	134	254	298	318	241	216	170	48	15	0	0	0	0	0	0	1774
22	0	0	0	0	0	0	0	22	81	117	298	307	333	234	265	135	97	18	0	0	0	0	0	0	1907
23	0	0	0	0	0	0	0	1	17	62	87	59	178	166	331	235	119	28	0	0	0	0	0	0	1284
24	0	0	0	0	0	0	0	12	58	91	141	72	167	233	205	198	121	27	0	0	0	0	0	0	1325
25	0	0	0	0	0	0	0	8	100	234	239	140	100	174	179	100	49	18	0	0	0	0	0	0	1340
26	0	0	0	0	0	0	0	19	96	161	220	227	280	74	183	120	50	16	0	0	0	0	0	0	1446
27	0	0	0	0	0	0	0	12	87	167	163	244	174	160	208	184	94	30	0	0	0	0	0	0	1523
28	0	0	0	0	0	0	0	14	45	58	65	68	67	66	61	54	42	16	0	0	0	0	0	0	557
29	0	0	0	0	0	0	0	15	45	71	82	127	162	229	263	220	92	14	0	0	0	0	0	0	1320
30	0	0	0	0	0	0	0	18	47	52	62	72	78	82	83	74	55	17	0	0	0	0	0	0	639
31	0	0	0	0	0	0	0	14	41	47	50	60	66	69	66	60	46	19	0	0	0	0	0	0	539
Avg	0	0	0	0	0	0	0	15	72	115	137	157	178	166	177	136	70	15	0	0	0	0	0	0	1232
S D	0	0	0	0	0	0	0	8	28	56	76	92	105	87	75	62	27	6	0	0	0	0	0	0	459
S/A	0	0	0	0	0	0	0	0.53	0.38	0.48	0.55	0.58	0.59	0.52	0.43	0.46	0.38	0.42	0	0	0	0	0	0	0.37
Min	0	0	0	0	0	0	0	1	13	31	50	26	30	38	53	25	17	3	0	0	0	0	0	0	484
Max	0	0	0	0	0	0	0	36	128	235	298	349	333	347	331	235	121	30	0	0	0	0	0	0	1955

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 20335 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