

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - April 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	29	158	261	503	681	555	700	588	565	356	158	124	14	0	0	0	0	0	4692
2	0	0	0	0	0	0	27	138	156	346	544	487	578	786	612	621	404	148	13	0	0	0	0	0	4861
3	0	0	0	0	0	0	33	158	257	544	588	647	710	795	545	600	350	166	18	0	0	0	0	0	5410
4	0	0	0	0	0	0	23	82	313	538	743	799	891	841	856	682	456	201	30	0	0	0	0	0	6457
5	0	0	0	0	0	0	33	179	417	663	821	974	1014	979	831	656	256	152	15	0	0	0	0	0	6991
6	0	0	0	0	0	0	35	184	412	629	824	884	989	936	858	654	423	193	27	0	0	0	0	0	7047
7	0	0	0	0	0	0	35	181	409	635	809	950	903	798	510	460	331	179	24	0	0	0	0	0	6224
8	0	0	0	0	0	0	37	176	414	597	727	667	656	566	599	172	84	39	6	0	0	0	0	0	4739
9	0	0	0	0	0	0	15	81	284	295	323	372	493	634	544	459	284	163	18	0	0	0	0	0	3966
10	0	0	0	0	0	0	40	197	450	687	868	984	1043	998	887	706	469	232	33	0	0	0	0	0	7595
11	0	0	0	0	0	0	23	197	454	682	867	973	983	907	904	723	495	242	36	0	0	0	0	0	7486
12	0	0	0	0	0	0	54	239	472	697	882	1001	1045	1008	896	715	491	244	37	0	0	0	0	0	7782
13	0	0	0	0	0	0	49	238	473	692	862	899	766	857	891	707	475	225	32	0	0	0	0	0	7165
14	0	0	0	0	0	0	56	188	423	605	817	874	1002	867	815	631	339	236	27	0	0	0	0	0	6882
15	0	0	0	0	0	0	52	230	460	652	860	999	730	509	553	594	418	193	30	0	0	0	0	0	6280
16	0	0	0	0	0	0	47	206	447	663	837	829	759	777	698	485	315	179	34	0	0	0	0	0	6277
17	0	0	0	0	0	0	64	171	401	678	709	786	891	646	783	519	390	177	34	0	0	0	0	0	6250
18	0	0	0	0	0	0	57	231	462	715	858	852	1016	989	859	687	458	223	35	0	0	0	0	0	7442
19	0	0	0	0	0	0	46	205	325	472	602	543	722	670	554	387	206	73	11	0	0	0	0	0	4815
20	0	0	0	0	0	0	38	96	213	314	199	310	431	608	302	226	290	100	11	0	0	0	0	0	3137
21	0	0	0	0	0	1	58	230	431	667	746	955	1005	933	846	677	447	201	26	0	0	0	0	0	7223
22	0	0	0	0	0	1	59	178	355	679	801	858	854	846	730	528	278	249	37	0	0	0	0	0	6451
23	0	0	0	0	0	1	67	256	497	721	904	826	712	807	743	631	450	253	44	0	0	0	0	0	6911
24	0	0	0	0	0	1	74	250	482	700	870	934	621	660	905	684	450	195	39	0	0	0	0	0	6863
25	0	0	0	0	0	2	79	270	485	722	861	1004	1047	1004	891	700	480	239	43	0	0	0	0	0	7827
26	0	0	0	0	0	2	76	252	481	615	444	691	920	667	782	703	447	188	27	0	0	0	0	0	6295
27	0	0	0	0	0	1	43	157	360	625	804	531	904	497	754	709	403	226	43	0	0	0	0	0	6056
28	0	0	0	0	0	1	49	235	408	462	518	822	949	917	764	550	301	143	27	0	0	0	0	0	6145
29	0	0	0	0	0	0	22	45	124	349	421	651	660	917	813	647	367	148	27	0	0	0	0	0	5191
30	0	0	0	0	0	1	53	162	101	317	344	692	693	430	447	221	83	24	11	0	0	0	0	0	3578
Avg	0	0	0	0	0	0	46	186	374	582	704	778	823	781	725	570	360	178	27	0	0	0	0	0	6135
S/D	0	0	0	0	0	1	16	55	111	134	192	192	172	166	159	156	114	59	11	0	0	0	0	0	1239
S/A	0	0	0	0	0	1.37	0.36	0.3	0.3	0.23	0.27	0.25	0.21	0.21	0.22	0.27	0.32	0.33	0.39	0	0	0	0	0	0.2
Min	0	0	0	0	0	0	15	45	101	295	199	310	431	430	302	172	83	24	6	0	0	0	0	0	3137
Max	0	0	0	0	0	2	79	270	497	722	904	1004	1047	1008	905	723	495	253	44	0	0	0	0	0	7827

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 33172 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 - April 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	92	82	229	293	472	281	415	313	355	170	46	77	19	0	0	0	0	0	2845
2	0	0	0	0	0	0	47	92	40	62	261	203	303	576	431	616	478	167	18	0	0	0	0	0	3294
3	0	0	0	0	0	0	51	56	77	394	296	241	394	533	337	610	385	274	42	0	0	0	0	0	3689
4	0	0	0	0	0	0	34	25	216	372	596	518	626	660	898	870	759	508	161	0	0	0	0	0	6243
5	0	0	0	0	0	0	97	352	643	761	759	902	903	877	780	444	79	140	40	0	0	0	0	0	6778
6	0	0	0	0	0	0	62	279	539	574	633	626	770	771	801	714	588	377	83	0	0	0	0	0	6816
7	0	0	0	0	0	0	66	274	526	679	752	762	650	516	220	285	253	95	21	0	0	0	0	0	5100
8	0	0	0	0	0	0	49	172	321	314	388	209	220	156	265	29	22	19	9	0	0	0	0	0	2175
9	0	0	0	0	0	0	47	20	45	65	37	57	144	271	169	57	88	73	16	0	0	0	0	0	1089
10	0	0	0	0	0	0	95	398	713	868	942	975	1005	896	156	41	50	539	133	0	0	0	0	0	6811
11	0	0	0	0	0	0	37	18	21	514	828	810	779	768	961	919	825	607	153	0	0	0	0	0	7240
12	0	0	0	0	0	0	52	1	105	798	929	973	996	993	973	920	827	628	174	0	0	0	0	0	8369
13	0	0	0	0	0	0	166	1	354	814	868	647	268	487	887	824	726	493	114	0	0	0	0	0	6648
14	0	0	0	0	0	0	55	57	353	524	693	614	764	645	686	578	323	391	67	0	0	0	0	0	5753
15	0	0	0	0	0	0	35	177	611	667	746	743	341	112	157	454	476	298	41	0	0	0	0	0	4857
16	0	0	0	0	0	0	49	221	536	707	715	544	452	508	516	336	254	218	51	0	0	0	0	0	5108
17	0	0	0	0	0	0	47	131	366	571	427	483	597	338	587	404	402	203	42	0	0	0	0	0	4599
18	0	0	0	0	0	19	74	346	489	661	717	601	853	870	833	782	645	419	72	0	0	0	0	0	7379
19	0	0	0	0	0	12	55	185	219	161	192	111	273	268	176	69	43	34	12	0	0	0	0	0	1811
20	0	0	0	0	0	4	31	41	52	38	33	42	57	176	43	50	98	37	13	0	0	0	0	0	714
21	0	0	0	0	0	4	63	266	457	622	432	742	825	773	782	731	578	297	37	0	0	0	0	0	6610
22	0	0	0	0	0	5	57	46	190	544	633	620	613	695	566	424	225	493	91	0	0	0	0	0	5202
23	0	0	0	0	0	23	126	475	717	838	896	650	439	591	555	577	573	565	156	0	0	0	0	0	7184
24	0	0	0	0	0	16	136	412	631	750	768	739	311	388	782	694	565	315	100	0	0	0	0	0	6607
25	0	0	0	0	0	10	167	494	677	778	766	896	923	912	882	791	688	475	121	0	0	0	0	0	8578
26	0	0	0	0	0	9	125	387	607	563	122	359	560	348	548	680	542	248	35	0	0	0	0	0	5136
27	0	0	0	0	0	5	38	61	75	384	585	103	495	139	447	706	453	400	112	0	0	0	0	0	4005
28	0	0	0	0	0	18	39	202	219	93	51	313	424	475	338	210	117	49	35	0	0	0	0	0	2583
29	0	0	0	0	0	0	17	14	21	71	133	170	157	458	517	520	275	65	35	0	0	0	0	0	2453
30	0	0	0	0	0	1	37	42	22	32	57	158	175	32	50	40	17	12	18	0	0	0	0	0	693
Avg	0	0	0	0	0	4	68	178	336	484	524	503	524	518	523	485	380	284	67	0	0	0	0	0	4879
S D	0	0	0	0	0	7	39	153	238	270	294	288	271	264	285	290	259	194	51	0	0	0	0	0	2252
S/A	0	0	0	0	0	1.59	0.57	0.86	0.71	0.56	0.56	0.57	0.52	0.51	0.55	0.6	0.68	0.68	0.75	0	0	0	0	0	0.46
Min	0	0	0	0	0	0	17	1	21	32	33	42	57	32	43	29	17	12	9	0	0	0	0	0	693
Max	0	0	0	0	0	23	167	494	717	868	942	975	1005	993	973	920	827	628	174	0	0	0	0	0	8578

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 70047 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:	XXXXXXX
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 - April 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	21	139	144	317	306	309	324	310	283	245	137	104	13	0	0	0	0	0	2652
2	0	0	0	0	0	0	27	111	137	305	341	308	304	284	272	221	176	100	12	0	0	0	0	0	2598
3	0	0	0	0	0	0	32	143	217	277	358	433	351	327	283	199	171	91	13	0	0	0	0	0	2896
4	0	0	0	0	0	0	20	75	201	286	265	340	320	262	145	114	95	63	15	0	0	0	0	0	2201
5	0	0	0	0	0	0	23	74	97	153	206	173	187	204	209	366	219	109	13	0	0	0	0	0	2034
6	0	0	0	0	0	0	31	99	141	243	311	327	282	252	219	183	144	87	18	0	0	0	0	0	2338
7	0	0	0	0	0	0	28	96	142	174	200	267	305	337	335	275	206	152	22	0	0	0	0	0	2540
8	0	0	0	0	0	0	31	123	251	381	409	480	453	426	386	153	73	34	5	0	0	0	0	0	3206
9	0	0	0	0	0	0	13	74	261	250	292	321	360	391	405	404	241	142	17	0	0	0	0	0	3172
10	0	0	0	0	0	0	27	70	82	90	95	104	111	195	640 ?	?	?	85	18	0	0	0	0	0	1515 ?
11	0	0	0	0	0	0	20	192	413 ?	316	185	240	259	220	128	111	93	69	19	0	0	0	0	0	2265
12	0	0	0	0	0	0	53	242	410	140	114	117	117	116	110	101	86	64	18	0	0	0	0	0	1687
13	0	0	0	0	0	0	50	242	275	124	142	315	516	421	172	155	118	81	20	0	0	0	0	0	2630
14	0	0	0	0	0	0	57	169	236	241	241	312	287	283	255	237	181	120	21	0	0	0	0	0	2639
15	0	0	0	0	0	0	50	164	134	183	237	318	409	410	428	283	188	99	26	0	0	0	0	0	2930
16	0	0	0	0	0	0	43	126	157	164	237	329	334	317	272	251	190	116	28	0	0	0	0	0	2565
17	0	0	0	0	0	0	59	125	206	273	354	339	328	340	304	250	188	115	29	0	0	0	0	0	2910
18	0	0	0	0	0	0	46	111	198	243	253	298	210	197	178	155	135	96	26	0	0	0	0	0	2147
19	0	0	0	0	0	0	40	143	201	354	442	440	464	423	406	340	185	62	10	0	0	0	0	0	3511
20	0	0	0	0	0	0	33	82	184	287	170	271	377	447	266	192	243	88	10	0	0	0	0	0	2652
21	0	0	0	0	0	1	48	135	175	219	380	266	221	228	201	176	154	108	22	0	0	0	0	0	2335
22	0	0	0	0	0	1	52	162	244	287	258	281	270	206	261	230	167	98	24	0	0	0	0	0	2541
23	0	0	0	0	0	1	44	83	98	113	138	223	293	265	284	229	159	80	22	0	0	0	0	0	2032
24	0	0	0	0	0	1	51	99	128	153	212	243	324	306	258	206	161	100	26	0	0	0	0	0	2268
25	0	0	0	0	0	1	51	89	104	154	202	165	163	165	160	154	129	91	26	0	0	0	0	0	1654
26	0	0	0	0	0	2	54	108	137	210	340	353	383	341	331	236	171	102	23	0	0	0	0	0	2789
27	0	0	0	0	0	1	37	134	318	329	300	435	429	368	389	220	163	105	27	0	0	0	0	0	3254
28	0	0	0	0	0	1	42	158	274	398	474	526	542	476	483	403	236	128	23	0	0	0	0	0	4165
29	0	0	0	0	0	0	19	39 ?	111	295	310	491	508	493	384	280	226	126	23	0	0	0	0	0	3304
30	0	0	0	0	0	1	46	145	88	293	294	542	524	401	405	193	72 ?	21	10	0	0	0	0	0	3034
Avg	0	0	0	0	0	0	38	125	192	242	269	319	332	314	295	226	162	95	19	0	0	0	0	0	2615
S D	0	0	0	0	0	0	13	47	85	81	93	109	114	97	115	78	48	28	6	0	0	0	0	0	568
S/A	0	0	0	0	0	1.35	0.34	0.37	0.44	0.33	0.35	0.34	0.34	0.31	0.39	0.34	0.3	0.29	0.32	0	0	0	0	0	0.22
Min	0	0	0	0	0	0	13	39	82	90	95	104	111	116	110	101	72	21	5	0	0	0	0	0	1515
Max	0	0	0	0	0	2	59	242	413	398	474	542	542	493	640	404	243	152	29	0	0	0	0	0	4165

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 33172 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