

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - July 2000**

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	6	72	266	446	696	860	962	1010	956	824	659	300	104	49	7	0	0	0	0	7216
2	0	0	0	0	0	8	101	317	533	734	884	982	1006	977	872	700	417	206	73	5	0	0	0	0	7814
3	0	0	0	0	0	7	120	324	549	747	899	876	1017	847	830	721	523	296	98	6	0	0	0	0	7861
4	0	0	0	0	0	9	132	309	484	602	776	759	984	986	872	745	538	273	97	5	0	0	0	0	7570
5	0	0	0	0	0	10	123	303	599	826	888	961	1009	1016	899	712	516	288	96	4	0	0	0	0	8250
6	0	0	0	0	0	5	89	270	475	666	730	727	928	843	632	360	49	57	8	0	0	0	0	0	5841
7	0	0	0	0	0	6	72	156	247	301	534	375	478	854	751	256	13	45	20	1	0	0	0	0	4109
8	0	0	0	0	0	6	60	177	422	294	835	917	938	763	688	611	493	224	42	4	0	0	0	0	6474
9	0	0	0	0	0	4	46	124	258	353	755	502	805	839	828	703	502	288	100	5	0	0	0	0	6111
10	0	0	0	0	0	8	117	315	553	730	877	968	1015	998	890	728	527	300	99	4	0	0	0	0	8128
11	0	0	0	0	0	7	110	313	513	702	770	870	983	954	852	692	489	276	78	0	0	0	0	0	7608
12	0	0	0	0	0	4	85	272	490	676	806	936	789	394	163	677	463	278	92	3	0	0	0	0	6127
13	0	0	0	0	0	4	95	283	426	617	847	907	769	140	134	264	301	160	78	4	0	0	0	0	5029
14	0	0	0	0	0	5	82	264	474	660	721	586	224	266	283	333	115	45	34	2	0	0	0	0	4093
15	0	0	0	0	0	4	86	252	445	634	679	611	343	306	294	262	162	135	99	8	0	0	0	0	4321
16	0	0	0	0	0	4	43	128	421	567	818	894	920	651	110	411	273	284	50	1	0	0	0	0	5576
17	0	0	0	0	0	3	93	290	497	699	831	899	895	712	557	513	478	203	66	3	0	0	0	0	6737
18	0	0	0	0	0	2	97	288	508	713	844	934	763	940	852	690	487	277	47	1	0	0	0	0	7444
19	0	0	0	0	0	4	97	271	456	663	814	918	965	797	718	659	451	245	83	3	0	0	0	0	7145
20	0	0	0	0	0	4	79	202	439	650	792	890	928	690	793	595	259	53	16	0	0	0	0	0	6389
21	0	0	0	0	0	2	69	265	479	550	660	610	851	782	728	477	215	142	29	0	0	0	0	0	5859
22	0	0	0	0	0	3	61	208	484	489	692	384	460	334	374	190	51	66	24	0	0	0	0	0	3821
23	0	0	0	0	0	4	46	281	447	662	824	795	917	625	318	175	81	68	30	2	0	0	0	0	5273
24	0	0	0	0	0	2	64	294	449	643	676	636	174	63	113	176	160	121	33	1	0	0	0	0	3606
25	0	0	0	0	0	2	89	161	473	485	500	688	916	854	870	241	29	3	0	0	0	0	0	0	5311
26	0	0	0	0	0	3	83	291	555	731	609	979	987	984	749	95	92	17	2	0	0	0	0	0	6178
27	0	0	0	0	0	1	33	191	360	592	835	935	982	943	875	709	313	134	25	1	0	0	0	0	6928
28	0	0	0	0	0	4	96	289	508	712	865	934	941	970	845	800	515	197	61	1	0	0	0	0	7739
29	0	0	0	0	0	2	86	297	518	742	875	963	1000	971	616	232	371	290	28	0	0	0	0	0	6991
30	0	0	0	0	0	1	40	99	148	164	497	476	628	616	687	304	195	109	31	1	0	0	0	0	3993
31	0	0	0	0	0	1	73	316	506	741	827	969	1005	969	413	548	346	103	41	1	0	0	0	0	6861
Avg	0	0	0	0	0	4	82	252	457	614	768	801	827	743	627	491	314	171	53	2	0	0	0	0	6207
S/D	0	0	0	0	0	2	25	64	93	151	112	185	238	271	264	218	176	97	32	2	0	0	0	0	1371
S/A	0	0	0	0	0	0.53	0.3	0.25	0.2	0.25	0.15	0.23	0.29	0.36	0.42	0.44	0.56	0.57	0.6	0.94	0	0	0	0	0.22
Min	0	0	0	0	0	1	33	99	148	164	497	375	174	63	110	95	13	3	0	0	0	0	0	0	3606
Max	0	0	0	0	0	10	132	324	599	826	899	982	1017	1016	899	800	538	300	100	8	0	0	0	0	8250

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5136 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: 8.67 uV/Wm-2  
Serial Number: 13434F3  
Calibration Date: 5/18/1998

**Direct Normal Solar Radiation  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Bethune-Cookman College - July 2000**

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	14	51	126	288	443	699	726	783	694	525	322	141	33	31	20	0	0	0	0	4894
2	0	0	0	0	0	9	125	454	672	781	819	855	853	843	799	660	269	98	53	16	0	0	0	0	7306
3	0	0	0	0	0	9	245	559	740	825	871	631	833	623	739	781	681	460	168	13	0	0	0	0	8177
4	0	0	0	0	0	17	297	511	515	471	569	526	856	894	826	724	629	389	186	13	0	0	0	0	7422
5	0	0	0	0	0	32	294	474	673	817	864	886	907	950	880	766	655	448	178	12	0	0	0	0	8837
6	0	0	0	0	0	20	73	245	385	496	381	234	411	432	299	169	9	17	4	12	0	0	0	0	3187
7	0	0	0	0	0	13	34	52	45	54	88	45	42	368	332	85	3	15	11	4	0	0	0	0	1190
8	0	0	0	0	0	17	43	49	179	46	589	626	551	337	329	400	494	194	29	16	0	0	0	0	3898
9	0	0	0	0	0	16	36	41	60	53	261	137	289	408	579	679	598	442	177	8	0	0	0	0	3785
10	0	0	0	0	0	9	207	497	684	794	850	880	908	923	890	832	740	552	239	7	0	0	0	0	9012
11	0	0	0	0	0	14	168	463	642	728	646	665	800	775	737	674	560	405	119	5	0	0	0	0	7401
12	0	0	0	0	0	10	60	264	517	596	599	633	454	136	25	479	397	281	97	12	0	0	0	0	4558
13	0	0	0	0	0	8	78	262	342	470	675	669	485	22	16	46	89	90	49	18	0	0	0	0	3320
14	0	0	0	0	0	15	59	155	467	550	482	295	67	35	37	44	28	17	23	6	0	0	0	0	2279
15	0	0	0	0	0	19	50	79	258	368	281	144	51	46	50	52	40	44	56	52	0	0	0	0	1590
16	0	0	0	0	0	15	33	45	182	340	606	577	606	333	12	169	123	314	52	0	0	0	0	0	3407
17	0	0	0	0	0	5	96	56	438	675	715	674	602	409	303	206	503	163	30	11	0	0	0	0	4887
18	0	0	0	0	0	32	72	83	389	762	786	750	516	746	751	682	573	421	66	2	0	0	0	0	6630
19	0	0	0	0	0	9	105	42	202	583	643	676	700	452	410	507	382	242	75	41	0	0	0	0	5068
20	0	0	0	0	0	11	48	59	144	506	574	628	606	318	536	466	154	16	6	6	0	0	0	0	4080
21	0	0	0	0	0	7	44	62	90	283	267	96	357	391	441	231	86	42	15	3	0	0	0	0	2416
22	0	0	0	0	0	11	39	65	76	77	207	170	82	36	46	24	13	26	17	3	0	0	0	0	892
23	0	0	0	0	0	17	41	35	54	401	666	514	661	360	157	27	21	24	15	3	0	0	0	0	2995
24	0	0	0	0	0	6	34	62	64	200	227	346	24	8	19	36	42	47	19	8	0	0	0	0	1142
25	0	0	0	0	0	9	116	62	79	108	71	219	545	615	697	47	5	1	0	1	0	0	0	0	2576
26	0	0	0	0	0	9	75	30	86	118	465	871	826	830	661	17	23	6	2	2	0	0	0	0	4020
27	0	0	0	0	0	1	18	26	0	63	608	767	820	773	811	754	246	139	24	4	0	0	0	0	5054
28	0	0	0	0	0	15	122	23	29	37	571	839	786	824	716	756	673	283	73	7	0	0	0	0	5755
29	0	0	0	0	0	7	155	5	20	37	442	895	914	913	437	56	421	523	19	3	0	0	0	0	4846
30	0	0	0	0	0	5	32	37	37	32	63	54	167	158	327	102	50	42	25	4	0	0	0	0	1136
31	0	0	0	0	0	3	46	95	105	68	161	757	795	809	204	343	232	30	31	4	0	0	0	0	3682

Avg	0	0	0	0	0	12	94	162	273	380	508	541	558	499	438	359	286	187	61	10	0	0	0	0	4369
S/D	0	0	0	0	0	7	75	175	235	278	242	276	290	307	296	292	253	182	63	11	0	0	0	0	2277
S/A	0	0	0	0	0	0.57	0.8	1.08	0.86	0.73	0.48	0.51	0.52	0.62	0.67	0.81	0.88	0.97	1.04	1.08	0	0	0	0	0.52
Min	0	0	0	0	0	1	18	5	0	32	63	45	24	8	12	17	3	1	0	0	0	0	0	0	892
Max	0	0	0	0	0	32	297	559	740	825	871	895	914	950	890	832	740	552	239	52	0	0	0	0	9012

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5136 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 (Shadow Band PSP)**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - July 2000**

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	6	62	209	270	355	237	259	233	288	358	420	211	91	44	6	0	0	0	0	3048
2	0	0	0	0	0	8	73	128	128	138	155	156	159	165	167	201	264	169	63	5	0	0	0	0	1977
3	0	0	0	0	0	7	64	96	104	117	125	270	190	242	182	133	122	111	61	6	0	0	0	0	1832
4	0	0	0	0	0	8	66	103	169	243	265	249	135	125	143	197	168	115	55	5	0	0	0	0	2046
5	0	0	0	0	0	9	59	105	194	203	121	105	109	102	123	135	130	108	58	3	0	0	0	0	1565
6	0	0	0	0	0	4	72	168	244	288	396	499	521	428	366	225	44	50	8	1	0	0	0	0	3314
7	0	0	0	0	0	6	66	135	220	260	455	332	437	501	461	183	12	39	18	1	0	0	0	0	3124
8	0	0	0	0	0	6	52	157	316	259	311	314	392	439	399	316	202	140	36	3	0	0	0	0	3342
9	0	0	0	0	0	4	40	107	221	313	526	368	518	449	321	190	151	111	61	5	0	0	0	0	3384
10	0	0	0	0	0	8	73	114	146	128	125	119	116	110	105	100	91	80	49	4	0	0	0	0	1368
11	0	0	0	0	0	6	74	126	132	151	202	227	190	208	202	183	160	114	51	0	0	0	0	0	2026
12	0	0	0	0	0	3	73	161	183	227	277	327	340	262	142	318	228	166	70	3	0	0	0	0	2780
13	0	0	0	0	0	4	80	173	228	258	252	263	288	119	120	229	250	126	70	4	0	0	0	0	2464
14	0	0	0	0	0	4	70	197	200	245	297	304	159	232	250	299	98	38	29	2	0	0	0	0	2424
15	0	0	0	0	0	4	76	221	293	353	435	474	293	261	250	223	139	118	89	7	0	0	0	0	3236
16	0	0	0	0	0	3	37	110	308	304	285	339	321	328	99	283	207	157	38	1	0	0	0	0	2819
17	0	0	0	0	0	3	75	268	234	191	201	252	300	316	295	366	180	132	60	2	0	0	0	0	2875
18	0	0	0	0	0	2	83	256	271	141	154	214	254	224	191	177	151	111	31	0	0	0	0	0	2260
19	0	0	0	0	0	4	78	255	332	225	250	269	273	360	362	277	226	150	67	3	0	0	0	0	3130
20	0	0	0	0	0	3	70	179	353	269	288	287	329	383	321	242	162	46	15	0	0	0	0	0	2948
21	0	0	0	0	0	2	61	241	403	338	430	517	498	405	342	303	161	126	25	0	0	0	0	0	3855
22	0	0	0	0	0	3	54	183	345 ?	414	508	225	379	299	334	172	43	56	21	0	0	0	0	0	3036
23	0	0	0	0	0	3	40	238	416	330	243	301	265	276	175	154	69	59	27	2	0	0	0	0	2598
24	0	0	0	0	0	2	58	264	371 ?	463	477	309	151	56	96	149	136	103	29	1	0	0	0	0	2664
25	0	0	0	0	0	1	70	136	322 ?	430	438	478	379	266	256	205	26	3	0	0	0	0	0	0	3012
26	0	0	0	0	0	3	76	312 ?	502 ?	389 ?	202	147	174	190	163	82	79	14	1	0	0	0	0	0	2336
27	0	0	0	0	0	2	29	158	405 ?	529	301	202	176	203	165	146	175	71	21	1	0	0	0	0	2585
28	0	0	0	0	0	4	77	282	431 ?	?	284	134	168	183	219	238	127	85	45	0	0	0	0	0	2277
29	0	0	0	0	0	2	62	289	486 ?	?	328 ?	109	103	99	224	189	142	90	25	0	0	0	0	0	2148
30	0	0	0	0	0	1	35	85	127	140	442	425	463	467	404	224	165	93	26	0	0	0	0	0	3098
31	0	0	0	0	0	1	65	227 ?	384 ?	580 ?	579 ?	248	226	198	231	296	208	93	36	1	0	0	0	0	3372
Avg	0	0	0	0	0	4	64	183	282	286	309	281	275	264	241	221	146	96	40	2	0	0	0	0	2676
S/D	0	0	0	0	0	2	14	65	109	118	126	111	123	119	101	76	64	42	22	2	0	0	0	0	581
S/A	0	0	0	0	0	0.54	0.22	0.35	0.39	0.41	0.41	0.39	0.45	0.45	0.42	0.34	0.44	0.44	0.55	0.93	0	0	0	0	0.22
Min	0	0	0	0	0	1	29	85	104	117	121	105	103	56	96	82	12	3	0	0	0	0	0	0	1368
Max	0	0	0	0	0	9	83	312	502	580	579	517	521	501	461	420	264	169	89	7	0	0	0	0	3855

Daylight Data Recovery: 0% missing; 3% exceed the 15% QC threshold -- 5136 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:	7.60 uV/Wm-2
Serial Number:	25951F3
Calibration Date:	5/18/1998