

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - June 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	10	109	305	546	649	778	965	944	939	882	601	480	200	62	2	0	0	0	0	7471
2	0	0	0	0	0	12	134	240	453	687	854	948	972	866	768	594	376	207	74	2	0	0	0	0	7185
3	0	0	0	0	0	13	132	342	538	739	881	977	983	952	779	669	480	266	81	2	0	0	0	0	7832
4	0	0	0	0	0	16	147	340	479	752	892	999	1015	957	900	467	423	272	88	2	0	0	0	0	7749
5	0	0	0	0	0	16	152	350	554	785	962	974	1006	968	699	691	476	276	81	2	0	0	0	0	7993
6	0	0	0	0	0	15	142	280	432	482	757	893	920	780	566	653	492	271	76	1	0	0	0	0	6759
7	0	0	0	0	0	13	131	331	541	731	875	954	983	935	745	506	374	147	48	2	0	0	0	0	7316
8	0	0	0	0	0	14	136	314	538	742	907	977	1057	882	843	702	487	244	63	1	0	0	0	0	7907
9	0	0	0	0	0	18	148	345	550	742	853	962	860	731	793	640	464	248	61	2	0	0	0	0	7418
10	0	0	0	0	0	11	110	284	511	668	709	818	487	702	773	613	398	166	56	4	0	0	0	0	6310
11	0	0	0	0	0	17	121	325	509	733	856	579	896	894	549	536	172	77	19	0	0	0	0	0	6284
12	0	0	0	0	0	12	138	346	574	770	901	961	677	580	613	510	228	229	82	2	0	0	0	0	6625
13	0	0	0	0	0	15	142	345	549	739	885	967	788	793	797	621	432	269	87	3	0	0	0	0	7430
14	0	0	0	0	0	17	131	332	554	728	880	988	1032	727	457	442	267	242	109	4	0	0	0	0	6912
15	0	0	0	0	0	17	196	352	560	741	902	1007	1010	968	875	700	502	291	94	3	0	0	0	0	8217
16	0	0	0	0	0	14	144	352	568	758	783	884	910	980	807	679	427	253	88	4	0	0	0	0	7650
17	0	0	0	0	0	13	143	353	558	719	761	901	871	701	856	666	462	189	74	3	0	0	0	0	7269
18	0	0	0	0	0	11	112	307	532	713	791	873	942	920	813	645	450	197	29	0	0	0	0	0	7336
19	0	0	0	0	0	12	117	288	489	678	814	915	798	760	812	383	64	63	42	1	0	0	0	0	6236
20	0	0	0	0	0	12	109	301	478	684	700	658	584	742	791	503	255	82	31	4	0	0	0	0	5935
21	0	0	0	0	0	4	80	215	379	535	772	839	802	716	598	436	219	111	57	2	0	0	0	0	5765
22	0	0	0	0	0	11	107	257	473	663	781	872	953	945	863	696	488	243	72	1	0	0	0	0	7425
23	0	0	0	0	0	7	65	218	362	435	285	445	720	848	831	690	315	185	56	2	0	0	0	0	5463
24	0	0	0	0	0	9	103	248	358	417	473	583	668	678	573	214	229	110	32	1	0	0	0	0	4695
25	0	0	0	0	0	10	103	266	404	566	671	718	604	36 ?	17	33	14	12	6	0	0	0	0	0	3460
26	0	0	0	0	0	7	123	305	505	719	819	945	947	925	821	655	463	275	89	3	0	0	0	0	7601
27	0	0	0	0	0	13	127	278	485	677	830	950	999	968	874	719	441	187	47	3	0	0	0	0	7596
28	0	0	0	0	0	9	94	294	509	708	860	935	968	933	825	666	463	263	83	1	0	0	0	0	7610
29	0	0	0	0	0	7	88	233	394	585	828	938	966	926	831	671	453	234	59	1	0	0	0	0	7215
30	0	0	0	0	0	8	107	248	476	622	832	795	594	669	566	481	140	60	43	1	0	0	0	0	5644
Avg	0	0	0	0	0	12	123	300	495	672	796	874	865	814	731	569	364	196	63	2	0	0	0	0	6877
S/D	0	0	0	0	0	3	25	43	63	96	132	139	154	183	177	153	137	77	24	1	0	0	0	0	1052
S/A	0	0	0	0	0	0.29	0.2	0.14	0.13	0.14	0.17	0.16	0.18	0.23	0.24	0.27	0.37	0.39	0.38	0.58	0	0	0	0	0.15
Min	0	0	0	0	0	4	65	215	358	417	285	445	487	36	17	33	14	12	6	0	0	0	0	0	3460
Max	0	0	0	0	0	18	196	353	574	785	962	1007	1057	980	900	719	502	291	109	4	0	0	0	0	8217

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5030 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 - June 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	21	75	337	540	439	531	752	778	764	783	523	558	202	86	7	0	0	0	0	6396
2	0	0	0	0	0	32	67	129	229	448	604	666	670	570	546	465	292	181	62	5	0	0	0	0	4965
3	0	0	0	0	0	33	203	409	572	719	760	805	803	795	654	673	616	450	174	5	0	0	0	0	7672
4	0	0	0	0	0	59	334	454	415	745	851	905	917	873	811	355	435	383	191	2	0	0	0	0	7731
5	0	0	0	0	0	53	338	535	699	852	870	837	827	809	556	688	577	517	189	13	0	0	0	0	8359
6	0	0	0	0	0	42	217	161	231	176	500	450	545	410	303	503	551	465	152	10	0	0	0	0	4717
7	0	0	0	0	0	25	206	452	532	505	587	618	530	562	368	178	169	32	42	9	0	0	0	0	4815
8	0	0	0	0	0	33	114	263	465	641	747	741	743	605	600	431	285	215	53	6	0	0	0	0	5941
9	0	0	0	0	0	35	242	517	630	684	579	634	432	258	455	294	161	187	32	12	0	0	0	0	5153
10	0	0	0	0	0	22	63	212	460	502	354	432	137	350	476	169	49	50	34	18	0	0	0	0	3328
11	0	0	0	0	0	49	154	423	490	649	645	251	499	511	203	86	23	26	11	6	0	0	0	0	4027
12	0	0	0	0	0	32	262	549	773	852	868	762	368	351	379	54	44	129	133	5	0	0	0	0	5559
13	0	0	0	0	0	46	298	495	590	732	795	730	393	405	477	93	74	161	165	7	0	0	0	0	5462
14	0	0	0	0	0	48	158	463	665	697	772	836	819	448	152	52	57	51	130	9	0	0	0	0	5359
15	0	0	0	0	0	27	266	512	692	783	845	874	850	817	576	109	79	150	214	40	0	0	0	0	6833
16	0	0	0	0	0	42	327	585	736	808	606	610	670	790	632	569	399	313	160	19	0	0	0	0	7265
17	0	0	0	0	0	29	335	586	670	638	566	626	578	454	698	576	404	119	68	13	0	0	0	0	6362
18	0	0	0	0	0	24	121	384	612	666	533	527	605	632	587	532	437	208	23	4	0	0	0	0	5894
19	0	0	0	0	0	17	137	306	447	543	580	578	414	410	577	246	10	25	29	3	0	0	0	0	4321
20	0	0	0	0	0	32	77	253	359	445	322	271	225	345	430	232	46	20	14	12	0	0	0	0	3084
21	0	0	0	0	0	6	28	99	194	238	414	403	334	268	211	138	42	25	44	10	0	0	0	0	2455
22	0	0	0	0	0	25	46	144	319	435	439	475	622	698	752	679	561	241	56	5	0	0	0	0	5496
23	0	0	0	0	0	23	31	108	166	174	28	119	314	531	670	644	175	83	32	3	0	0	0	0	3100
24	0	0	0	0	0	33	67	149	177	168	165	183	222	246	172	35	31	36	16	2	0	0	0	0	1703
25	0	0	0	0	0	57	37	113	183	237	240	237	159	1	2	6	2	4	4	2	0	0	0	0	1286
26	0	0	0	0	0	15	98	333	432	553	373	630	550	586	558	492	435	387	132	14	0	0	0	0	5588
27	0	0	0	0	0	23	124	219	395	451	528	662	747	780	797	761	485	219	34	7	0	0	0	0	6233
28	0	0	0	0	0	19	88	322	493	551	610	628	678	683	640	571	450	318	106	4	0	0	0	0	6161
29	0	0	0	0	0	17	40	104	162	283	547	659	664	643	620	563	426	232	45	7	0	0	0	0	5013
30	0	0	0	0	0	20	62	135	346	369	587	444	148	216	179	173	22	14	17	4	0	0	0	0	2737
Avg	0	0	0	0	0	31	154	325	456	533	562	578	541	527	495	363	263	181	82	9	0	0	0	0	5100
S D	0	0	0	0	0	13	103	163	185	205	205	209	225	214	211	235	212	147	64	7	0	0	0	0	1747
S/A	0	0	0	0	0	0.41	0.67	0.5	0.41	0.38	0.37	0.36	0.42	0.41	0.43	0.65	0.81	0.81	0.78	0.83	0	0	0	0	0.34
Min	0	0	0	0	0	6	28	99	162	168	28	119	137	1	2	6	2	4	4	2	0	0	0	0	1286
Max	0	0	0	0	0	59	338	586	773	852	870	905	917	873	811	761	616	517	214	40	0	0	0	0	8359

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 80135 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 - June 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	9	91	157	214	307	305	235	174	210	203	216	163	126	45	2	0	0	0	0	2457
2	0	0	0	0	0	11	118	182	313	337	312	301	309	323	294	250	216	142	62	1	0	0	0	0	3170
3	0	0	0	0	0	12	84	165	185	181	199	197	189	193	207	174	130	97	47	1	0	0	0	0	2062
4	0	0	0	0	0	14	74	141	221	171	130	121	106	122	197	205	176	126	51	2	0	0	0	0	1856
5	0	0	0	0	0	14	76	123	122	125	182	162	187	193	220	184	154	82	43	1	0	0	0	0	1869
6	0	0	0	0	0	14	95	213	286	348	305	455	381	384	307	278	179	96	44	1	0	0	0	0	3385
7	0	0	0	0	0	13	81	138	217	339	347	356	457	396	422	378	277	135	41	2	0	0	0	0	3598
8	0	0	0	0	0	13	108	197	255	242	237	258	320	304	318	381	326	159	52	1	0	0	0	0	3173
9	0	0	0	0	0	16	90	124	161	216	333	346	432	484	396	419	371	176	56	2	0	0	0	0	3624
10	0	0	0	0	0	10	94	190	224	279	395	400	351	367	354	485	370	147	51	4	0	0	0	0	3721
11	0	0	0	0	0	15	88	139	206	230	279	337	402	404	371	457	158	67	16	0	0	0	0	0	3170
12	0	0	0	0	0	10	76	110	99	111	124	223	312	243	278	404	172	186	53	2	0	0	0	0	2404
13	0	0	0	0	0	14	73	137	182	172	171	260	398	405	381	499	388	213	52	2	0	0	0	0	3348
14	0	0	0	0	0	17	97	133	147	188	188	177	219	296	322	377	235	216	83	4	0	0	0	0	2699
15	0	0	0	0	0	16	133	132	134	135	144	159	166	184	365	601	424	238	49	3	0	0	0	0	2885
16	0	0	0	0	0	13	68	103	118	133	243	292	245	222	252	254	195	137	55	4	0	0	0	0	2333
17	0	0	0	0	0	12	66	104	148	227	258	292	297	265	243	235	227	139	60	2	0	0	0	0	2576
18	0	0	0	0	0	11	82	142	156	200	314	362	342	313	298	249	195	116	24	0	0	0	0	0	2805
19	0	0	0	0	0	11	84	158	214	258	295	355	387	367	306	191	59	54	36	1	0	0	0	0	2776
20	0	0	0	0	0	10	91	193	258	340	412	395	362	411	414	325	227	74	29	3	0	0	0	0	3544
21	0	0	0	0	0	4	74	172	260	351	402	449	471	458	414	331	194	102	48	2	0	0	0	0	3731
22	0	0	0	0	0	10	95	195	277	328	390	412	336	274	202	187	160	143	59	1	0	0	0	0	3069
23	0	0	0	0	0	6	59	171	261	302	260	328	408	338	243	205	209	151	51	2	0	0	0	0	2993
24	0	0	0	0	0	9	87	186	253	287	326	405	448	442	419	188	211	96	28	1	0	0	0	0	3385
25	0	0	0	0	0	9	94	217	294	385	457	488	445	40	15	28	13	10	5	0	0	0	0	0	2501
26	0	0	0	0	0	6	99	164	244	295	484	334	402	361	330	284	210	122	60	3	0	0	0	0	3398
27	0	0	0	0	0	12	100	183	244	330	358	308	257	218	174	145	162	90	40	3	0	0	0	0	2624
28	0	0	0	0	0	8	73	158	210	284	315	327	295	275	261	237	197	137	59	1	0	0	0	0	2838
29	0	0	0	0	0	7	80	190	295	366	339	300	307	307	285	247	201	140	48	1	0	0	0	0	3113
30	0	0	0	0	0	7	93	189	267	338	310	368	448	461	408	350	127	54	41	1	0	0	0	0	3461
Avg	0	0	0	0	0	11	87	160	215	260	294	313	328	309	297	292	211	126	46	2	0	0	0	0	2952
S D	0	0	0	0	0	3	15	31	58	80	92	91	98	105	91	122	90	50	15	1	0	0	0	0	525
S/A	0	0	0	0	0	0.3	0.17	0.2	0.27	0.31	0.31	0.29	0.3	0.34	0.31	0.42	0.43	0.39	0.32	0.57	0	0	0	0	0.18
Min	0	0	0	0	0	4	59	103	99	111	124	121	106	40	15	28	13	10	5	0	0	0	0	0	1856
Max	0	0	0	0	0	17	133	217	313	385	484	488	471	484	422	601	424	238	83	4	0	0	0	0	3731

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 5030 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