

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - October 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	0	22	110	319	329	320	544	530	259	331	235	227	68	0	0	0	0	0	0	3294
2	0	0	0	0	0	0	21	95	347	587	777	696	387	426	463	429	218	59	1	0	0	0	0	0	4505
3	0	0	0	0	0	0	17	111	241	361	389	483	406	237	82	95	72	12	2	0	0	0	0	0	2508
4	0	0	0	0	0	0	6	87	167	269	357	434	493	339	201	366	55	39	0	0	0	0	0	0	2812
5	0	0	0	0	0	0	16	92	188	245	421	705	760	779	653	468	249	57	0	0	0	0	0	0	4633
6	0	0	0	0	0	0	23	168	360	559	356	428	734	748	533	450	223	46	0	0	0	0	0	0	4629
7	0	0	0	0	0	0	14	128	291	578	727	805	822	766	566	404	226	49	0	0	0	0	0	0	5375
8	0	0	0	0	0	0	15	161	353	423	297	473	398	630	506	190	28	11	0	0	0	0	0	0	3485
9	0	0	0	0	0	0	1	32	181	519	670	516	430	469	541	257	149	36	0	0	0	0	0	0	3801
10	0	0	0	0	0	0	10	90	201	292	604	678	442	438	347	250	102	14	0	0	0	0	0	0	3468
11	0	0	0	0	0	0	7	162	267	435	724	812	828	765	644	474	189	39	0	0	0	0	0	0	5347
12	0	0	0	0	0	0	9	145	384	445	662	797	806	763	489	448	209	23	0	0	0	0	0	0	5179
13	0	0	0	0	0	0	9	157	376	333	649	503	700	750	620	435	220	43	0	0	0	0	0	0	4797
14	0	0	0	0	0	0	16	150	350	443	556	537	587	565	623	411	209	40	0	0	0	0	0	0	4486
15	0	0	0	0	0	0	15	156	366	549	706	789	799	738	615	425	218	47	0	0	0	0	0	0	5424
16	0	0	0	0	0	0	20	178	381	571	725	800	812	742	614	423	205	31	0	0	0	0	0	0	5502
17	0	0	0	0	0	0	16	161	307	549	683	776	776	727	599	414	200	33	0	0	0	0	0	0	5239
18	0	0	0	0	0	0	14	164	354	535	684	771	775	708	555	385	176	35	0	0	0	0	0	0	5154
19	0	0	0	0	0	0	10	123	315	475	563	731	735	660	520	269	157	25	0	0	0	0	0	0	4584
20	0	0	0	0	0	0	4	30	82	176	204	211	335	175	146	99	45	17	0	0	0	0	0	0	1524
21	0	0	0	0	0	0	14	129	335	518	672	734	704	620	337	120	68	22	0	0	0	0	0	0	4274
22	0	0	0	0	0	0	10	127	294	137	338	232	420	636	558	346	150	19	0	0	0	0	0	0	3266
23	0	0	0	0	0	0	9	99	318	521	677	759	758	686	538	310	166	30	0	0	0	0	0	0	4871
24	0	0	0	0	0	0	10	136	344	536	685	485	776	654	459	171	54	9	0	0	0	0	0	0	4320
25	0	0	0	0	0	0	5	92	217	230	504	739	697	728	555	390	153	23	0	0	0	0	0	0	4333
26	0	0	0	0	0	0	7	76	358	500	673	747	760	697	563	380	168	13	0	0	0	0	0	0	4942
27	0	0	0	0	0	0	6	126	336	529	678	765	695	685	528	374	173	20	0	0	0	0	0	0	4914
28	0	0	0	0	0	0	7	130	323	505	647	732	742	669	530	346	146	15	0	0	0	0	0	0	4792
29	0	0	0	0	0	0	5	105	289	465	595	679	695	630	497	319	130	13	0	0	0	0	0	0	4424
30	0	0	0	0	0	0	4	63	171	331	321	502	677	345	330	235	140	13	0	0	0	0	0	0	3133
Avg	0	0	0	0	0	0	11	119	294	431	562	629	649	601	485	331	158	30	0	0	0	0	0	0	4300
S D	0	0	0	0	0	0	6	38	77	127	162	167	156	175	145	111	62	16	0	0	0	0	0	0	958
S/A	0	0	0	0	0	0	0.49	0.32	0.26	0.29	0.29	0.27	0.24	0.29	0.3	0.34	0.39	0.52	3.33	0	0	0	0	0	0.22
Min	0	0	0	0	0	0	1	30	82	137	204	211	335	175	82	95	28	9	0	0	0	0	0	0	1524
Max	0	0	0	0	0	0	23	178	384	587	777	812	828	779	653	474	249	68	2	0	0	0	0	0	5502

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4143 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 - October 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	0	19	47	44	36	55	56	73	45	61	56	63	34	2	0	0	0	0	0	592
2	0	0	0	0	0	0	15	27	25	12	22	31	52	69	64	56	50	37	7	0	0	0	0	0	467
3	0	0	0	0	0	0	24	47	45	55	66	72	56	42	14	21	29	8	6	0	0	0	0	0	484
4	0	0	0	0	0	0	6	40	52	54	49	45	54	35	31	57	13	39	1	0	0	0	0	0	475
5	0	0	0	0	0	0	29	50	58	54	63	37	27	31	34	33	35	42	7	0	0	0	0	0	499
6	0	0	0	0	0	0	18	28	44	23	44	34	36	35	40	39	39	30	8	0	0	0	0	0	417
7	0	0	0	0	0	0	13	38	48	14	31	19	28	36	42	41	37	37	49	0	0	0	0	0	434
8	0	0	0	0	0	0	20	56	52	54	40	61	61	69	69	46	6	9	0	0	0	0	0	0	544
9	0	0	0	0	0	0	4	11	45	42	40	48	58	57	51	51	47	33	0	0	0	0	0	0	487
10	0	0	0	0	0	0	90	46	50	50	79	68	65	76	65	57	31	6	0	0	0	0	0	0	684
11	0	0	0	0	0	0	17	42	37	34	18	15	19	25	34	43	41	39	0	0	0	0	0	0	363
12	0	0	0	0	0	0	12	20	30	30	21	18	22	26	41	28	26	12	0	0	0	0	0	0	286
13	0	0	0	0	0	0	13	7	31	31	38	49	19	22	36	32	26	23	0	0	0	0	0	0	327
14	0	0	0	0	0	0	17	3	31	33	32	39	64	47	10	34	8	21	0	0	0	0	0	0	340
15	0	0	0	0	0	0	5	0	10	1	0	0	1	9	14	6	25	0	0	0	0	0	0	0	71
16	0	0	0	0	0	0	5	0	6	1	0	0	1	0	5	5	0	57	0	0	0	0	0	0	80
17	0	0	0	0	0	0	11	14	38	1	5	1	3	2	8	6	0	9	0	0	0	0	0	0	97
18	0	0	0	0	0	0	3	3	13	2	5	6	4	2	14	10	27	29	0	2	0	0	0	0	118
19	0	0	0	0	0	0	13	22	25	24	39	17	21	28	34	53	52	29	0	0	0	0	0	0	358
20	0	0	0	0	0	0	4	6	9	17	19	14	12	14	12	11	6	10	0	0	0	0	0	0	134
21	0	0	0	0	0	0	13	20	21	7	7	5	18	31	48	10	16	28	0	0	0	0	0	0	223
22	0	0	0	0	0	0	8	9	39	14	24	13	48	53	11	37	42	19	0	0	0	0	0	0	317
23	0	0	0	0	0	0	12	18	29	11	6	11	9	17	30	43	48	31	0	0	0	0	0	0	267
24	0	0	0	0	0	0	9	1	26	13	4	34	7	27	28	20	7	4	0	0	0	0	0	0	178
25	0	0	0	0	0	0	5	21	33	13	49	38	56	35	36	18	14	23	0	0	0	0	0	0	342
26	0	0	0	0	0	0	15	16	42	16	14	21	19	26	25	20	20	12	0	0	0	0	0	0	249
27	0	0	0	0	0	0	8	21	31	22	14	24	28	30	32	19	5	13	0	0	0	0	0	0	246
28	0	0	0	0	0	0	7	11	38	25	18	23	25	32	37	33	28	25	0	0	0	0	0	0	301
29	0	0	0	0	0	0	8	31	43	38	32	36	38	42	44	43	41	19	0	0	0	0	0	0	416
30	0	0	0	0	0	0	3	6	7	30	22	41	67	40	35	43	52	22	0	0	0	0	0	0	368
Avg	0	0	0	0	0	0	14	22	33	25	29	29	33	33	33	33	27	24	3	0	0	0	0	0	339
S/D	0	0	0	0	0	0	15	17	14	17	21	20	22	19	17	16	18	12	9	0	0	0	0	0	153
S/A	0	0	0	0	0	0	1.08	0.76	0.42	0.67	0.72	0.68	0.68	0.58	0.52	0.5	0.65	0.51	3.38	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	3	0	6	1	0	0	0	5	5	5	0	4	0	0	0	0	0	0	71
Max	0	0	0	0	0	0	90	56	58	55	79	72	73	76	69	57	63	57	49	0	0	0	0	0	684

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4143 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 (Shadow Band PSP)**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - October 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	0	21	97	247 ?	253	278	439	468	223	288	205	204	62	0	0	0	0	0	0	2786
2	0	0	0	0	0	0	20	88	322	518 ?	?	481 ?	293	371	400	378	186	54	1	0	0	0	0	0	3111 ?
3	0	0	0	0	0	0	15	99	219	327	339	424	359	204	72	84	62	11	1	0	0	0	0	0	2216
4	0	0	0	0	0	0	5	77	143	236	274	361	378	260	180	302	51	34	0	0	0	0	0	0	2301
5	0	0	0	0	0	0	13	80	161	210	375	489 ?	500 ?	?	?	417 ?	238	52	0	0	0	0	0	0	2536 ?
6	0	0	0	0	0	0	21	161	340	507 ?	324	319	344 ?	606 ?	425 ?	430	210	42	0	0	0	0	0	0	3728 ?
7	0	0	0	0	0	0	13	118	260	502 ?	626 ?	681 ?	?	?	391 ?	370	214	43	0	0	0	0	0	0	3218 ?
8	0	0	0	0	0	0	14	147	329	371	230	398	347	536 ?	460	166	26	10	0	0	0	0	0	0	3036
9	0	0	0	0	0	0	1	29	160	372 ?	538 ?	377 ?	382	395	443 ?	209	133	32	0	0	0	0	0	0	3072
10	0	0	0	0	0	0	9	78	178	262	495	517 ?	389	380	304	221	91	13	0	0	0	0	0	0	2940
11	0	0	0	0	0	0	6	105 ?	175 ?	368	604 ?	?	?	?	?	367 ?	140	36	0	0	0	0	0	0	1802 ?
12	0	0	0	0	0	0	9	140	370	387	540 ?	615 ?	?	?	366 ?	391 ?	201	22	0	0	0	0	0	0	3041 ?
13	0	0	0	0	0	0	8	155	362	273	465 ?	443	179 ?	?	?	413	212	40	0	0	0	0	0	0	2551 ?
14	0	0	0	0	0	0	16	151	322	334 ?	418 ?	407 ?	503	473 ?	?	330 ?	207	38	0	0	0	0	0	0	3198 ?
15	0	0	0	0	0	0	15	159	361	465 ?	?	?	?	?	493 ?	403 ?	217	46	0	0	0	0	0	0	2161 ?
16	0	0	0	0	0	0	20	191 ?	312 ?	?	?	?	?	?	?	378 ?	206	32	0	0	0	0	0	0	1140 ?
17	0	0	0	0	0	0	16	157	262	500 ?	590 ?	?	?	?	?	377 ?	201	33	0	0	0	0	0	0	2136 ?
18	0	0	0	0	0	0	14	166	348	452 ?	?	?	?	599 ?	500 ?	372	168	32	0	0	0	0	0	0	2653 ?
19	0	0	0	0	0	0	9	118	304	462	493 ?	?	?	578 ?	499	245	142	23	0	0	0	0	0	0	2873 ?
20	0	0	0	0	0	0	4	29	78	167	191	200	325	165	139	94	43	16	0	0	0	0	0	0	1451
21	0	0	0	0	0	0	15	125	326	461 ?	571 ?	636 ?	333 ?	419 ?	259	115	65	21	0	0	0	0	0	0	3345 ?
22	0	0	0	0	0	0	9	125	264	129	296	222	383	515 ?	421 ?	329	139	17	0	0	0	0	0	0	2850
23	0	0	0	0	0	0	9	95	306	444 ?	?	?	657 ?	?	467 ?	290	140	27	0	0	0	0	0	0	2435 ?
24	0	0	0	0	0	0	10	137	333	436 ?	?	309 ?	?	449 ?	314 ?	162	52	9	0	0	0	0	0	0	2210 ?
25	0	0	0	0	0	0	5	87	184	223	452	491 ?	424 ?	601 ?	484 ?	369 ?	149	22	0	0	0	0	0	0	3491 ?
26	0	0	0	0	0	0	6	73	248 ?	381 ?	?	?	?	?	?	371	163	13	0	0	0	0	0	0	1255 ?
27	0	0	0	0	0	0	5	122	324	436 ?	?	?	620 ?	561 ?	481 ?	353 ?	172	20	0	0	0	0	0	0	3094 ?
28	0	0	0	0	0	0	7	127	308	441 ?	?	?	?	?	482 ?	331	139	13	0	0	0	0	0	0	1850 ?
29	0	0	0	0	0	0	5	99	273	445	574	634 ?	?	589 ?	472	301	120	12	0	0	0	0	0	0	3522
30	0	0	0	0	0	0	5	62	168	315	281	451	529 ?	318	310	217	128	12	0	0	0	0	0	0	2797
Avg	0	0	0	0	0	0	11	113	266	368	426	445	412	434	376	300	147	28	0	0	0	0	0	0	2627
S/D	0	0	0	0	0	0	6	39	77	108	134	128	114	143	120	101	60	14	0	0	0	0	0	0	656
S/A	0	0	0	0	0	0	0.51	0.35	0.29	0.29	0.31	0.29	0.28	0.33	0.32	0.34	0.41	0.51	2.95	0	0	0	0	0	0.25
Min	0	0	0	0	0	0	1	29	78	129	191	200	179	165	72	84	26	9	0	0	0	0	0	0	1140
Max	0	0	0	0	0	0	21	191	370	518	626	681	657	606	500	430	238	62	1	0	0	0	0	0	3728

Daylight Data Recovery: 0% missing; 29% exceed the 15% QC threshold -- 4143 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