

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - August 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	3	95	278	498	701	857	958	984	962	860	702	496	265	63	0	0	0	0	0	7720
2	0	0	0	0	0	1	72	281	500	737	873	921	998	942	485	589	375	67	4	0	0	0	0	0	6846
3	0	0	0	0	0	1	46	334	505	693	873	899	734	761	842	590	201	118	30	0	0	0	0	0	6628
4	0	0	0	0	0	1	31	179	387	488	813	617	177	39	36	18	34	35	16	1	0	0	0	0	2873
5	0	0	0	0	0	0	31	127	146	296	456	506	673	577	369	663	315	118	47	0	0	0	0	0	4325
6	0	0	0	0	0	1	60	232	438	660	808	903	906	855	748	394	164	229	40	0	0	0	0	0	6438
7	0	0	0	0	0	1	74	244	431	663	806	912	951	915	818	652	444	234	59	1	0	0	0	0	7206
8	0	0	0	0	0	1	78	274	462	668	820	913	971	944	820	655	461	245	52	0	0	0	0	0	7364
9	0	0	0	0	0	1	68	248	465	661	802	898	840	919	797	648	459	240	40	0	0	0	0	0	7085
10	0	0	0	0	0	1	77	241	465	302	335	449	729	815	850	566	398	176	35	0	0	0	0	0	5439
11	0	0	0	0	0	1	65	240	443	588	733	850	903	691	795	632	460	211	57	0	0	0	0	0	6669
12	0	0	0	0	0	0	64	127	423	257	454	702	767	368	361	431	190	134	60	0	0	0	0	0	4337
13	0	0	0	0	0	0	59	207	438	646	840	841	891	622	707	491	393	186	59	0	0	0	0	0	6382
14	0	0	0	0	0	1	59	182	344	608	587	419	124	328	821	675	206	143	46	0	0	0	0	0	4543
15	0	0	0	0	0	0	62	240	435	628	787	919	956	916	791	629	400	193	44	0	0	0	0	0	7002
16	0	0	0	0	0	0	59	245	442	573	796	913	933	895	741	492	430	210	46	0	0	0	0	0	6777
17	0	0	0	0	0	0	54	233	442	645	813	930	951	920	809	638	436	219	45	0	0	0	0	0	7133
18	0	0	0	0	0	0	61	241	445	648	820	953	996	951	840	664	446	224	43	0	0	0	0	0	7333
19	0	0	0	0	0	0	53	191	346	596	695	811	881	842	750	608	393	182	31	0	0	0	0	0	6379
20	0	0	0	0	0	0	31	84	323	604	745	876	806	825	686	541	269	48	11	0	0	0	0	0	5850
21	0	0	0	0	0	0	36	167	321	506	749	473	662	546	449	340	303	191	43	0	0	0	0	0	4786
22	0	0	0	0	0	0	55	225	418	648	809	861	485	633	798	600	227	153	32	0	0	0	0	0	5945
23	0	0	0	0	0	0	61	232	464	633	518	398	802	915	811	541	430	206	29	0	0	0	0	0	6039
24	0	0	0	0	0	0	56	254	423	683	840	938	965	893	810	645	433	209	37	0	0	0	0	0	7186
25	0	0	0	0	0	0	53	241	447	644	811	368	781	605	776	612	389	81	1	0	0	0	0	0	5808
26	0	0	0	0	0	0	47	216	431	614	824	924	932	874	792	627	447	224	48	0	0	0	0	0	6999
27	0	0	0	0	0	0	13	212	458	592	633	848	984	903	684	385	292	141	23	0	0	0	0	0	6167
28	0	0	0	0	0	0	61	240	423	611	779	899	893	852	686	553	360	155	23	0	0	0	0	0	6536
29	0	0	0	0	0	0	31	41	112	86	555	741	730	587	518	456	325	150	19	0	0	0	0	0	4350
30	0	0	0	0	0	0	45	228	376	515	740	660	597	484	289	410	236	83	12	0	0	0	0	0	4674
Avg	0	0	0	0	0	0	55	216	408	573	732	777	800	746	685	548	347	169	37	0	0	0	0	0	6094
S D	0	0	0	0	0	1	17	59	88	147	138	190	215	222	200	138	111	61	17	0	0	0	0	0	1161
S/A	0	0	0	0	0	1.19	0.3	0.27	0.22	0.26	0.19	0.24	0.27	0.3	0.29	0.25	0.32	0.36	0.46	2.1	0	0	0	0	0.19
Min	0	0	0	0	0	0	13	41	112	86	335	368	124	39	36	18	34	35	1	0	0	0	0	0	2873
Max	0	0	0	0	0	3	95	334	505	737	873	958	998	962	860	702	496	265	63	1	0	0	0	0	7720

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4755 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 - August 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	15	110	20	28	28	66	778	865	888	862	810	719	509	149	3	0	0	0	0	5848
2	0	0	0	0	0	2	114	3	3	12	22	567	883	809	333	589	430	18	1	6	0	0	0	0	3794
3	0	0	0	0	0	13	37	32	27	9	17	397	568	599	790	528	84	85	26	3	0	0	0	0	3214
4	0	0	0	0	0	1	24	36	85	72	52	114	22	6	5	3	9	15	19	7	0	0	0	0	470
5	0	0	0	0	0	28	28	54	35	58	75	57	200	204	143	598	226	75	30	7	0	0	0	0	1819
6	0	0	0	0	0	6	39	38	51	47	45	73	513	550	554	305	86	325	41	3	0	0	0	0	2677
7	0	0	0	0	0	7	44	76	66	56	56	77	482	678	663	586	465	289	58	0	0	0	0	0	3604
8	0	0	0	0	0	5	88	39	35	34	36	59	390	758	705	648	564	387	78	5	0	0	0	0	3832
9	0	0	0	0	0	2	56	31	51	48	42	58	174	644	627	657	601	403	70	5	0	0	0	0	3470
10	0	0	0	0	0	4	98	34	26	32	59	68	68	420	700	462	394	232	50	2	0	0	0	0	2649
11	0	0	0	0	0	7	48	21	38	47	37	40	65	269	695	664	613	346	121	17	0	0	0	0	3027
12	0	0	0	0	0	2	58	52	76	49	75	87	94	57	50	143	44	44	55	2	0	0	0	0	889
13	0	0	0	0	0	26	45	44	45	35	26	54	71	70	364	247	298	103	30	2	0	0	0	0	1459
14	0	0	0	0	0	4	41	39	65	45	42	44	16	31	578	634	116	108	25	6	0	0	0	0	1795
15	0	0	0	0	0	2	49	48	38	36	40	49	63	65	376	456	349	175	32	1	0	0	0	0	1781
16	0	0	0	0	0	2	41	49	57	52	42	45	50	53	196	301	493	289	62	9	0	0	0	0	1741
17	0	0	0	0	0	4	37	17	38	23	19	28	30	36	82	478	530	327	78	284	0	0	0	0	2011
18	0	0	0	0	0	0	47	29	29	17	15	28	25	19	34	217	452	231	85	0	0	0	0	0	1229
19	0	0	0	0	0	0	30	45	74	54	64	68	69	65	66	90	41	52	26	0	0	0	0	0	745
20	0	0	0	0	0	0	28	31	49	42	44	62	66	61	70	78	39	15	13	0	0	0	0	0	597
21	0	0	0	0	0	0	32	44	63	68	78	67	81	80	69	58	61	39	53	0	0	0	0	0	793
22	0	0	0	0	0	22	36	20	41	28	27	57	72	73	45	54	44	50	43	0	0	0	0	0	612
23	0	0	0	0	0	0	47	30	30	27	62	57	41	28	28	50	27	25	36	0	0	0	0	0	488
24	0	0	0	0	0	0	57	19	46	15	12	45	31	19	19	23	19	16	80	0	0	0	0	0	402
25	0	0	0	0	0	0	43	17	21	16	29	36	40	49	39	43	43	18	9	0	0	0	0	0	403
26	0	0	0	0	0	1	26	23	15	15	30	27	29	26	35	42	62	57	49	0	0	0	0	0	436
27	0	0	0	0	0	1	13	12	34	22	38	37	24	27	48	43	54	31	25	0	0	0	0	0	408
28	0	0	0	0	0	0	70	22	43	31	31	42	46	46	56	51	48	49	15	0	0	0	0	0	550
29	0	0	0	0	0	0	97	18	28	16	73	77	73	75	73	70	59	49	27	0	0	0	0	0	736
30	0	0	0	0	0	0	41	39	61	71	65	63	59	56	43	81	60	40	26	0	0	0	0	0	705
Avg	0	0	0	0	0	5	51	33	43	37	44	109	174	225	278	300	234	147	47	12	0	0	0	0	1740
S D	0	0	0	0	0	8	26	15	19	18	19	166	240	281	287	257	226	144	32	51	0	0	0	0	1376
S/A	0	0	0	0	0	1.49	0.5	0.45	0.43	0.49	0.44	1.52	1.38	1.25	1.03	0.85	0.96	0.98	0.69	4.18	0	0	0	0	0.79
Min	0	0	0	0	0	0	13	3	3	9	12	27	16	6	5	3	9	15	1	0	0	0	0	0	402
Max	0	0	0	0	0	28	114	76	85	72	78	778	883	888	862	810	719	509	149	284	0	0	0	0	5848

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4755 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 - August 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	3	77	271	428 ?	?	692 ?	216	136	117	110	103	86	71	32	0	0	0	0	0	2342 ?
2	0	0	0	0	0	1	56	286 ?	406 ?	?	?	332	134	173	194	160	132	60	4	0	0	0	0	0	1938 ?
3	0	0	0	0	0	1	41	309 ?	365 ?	?	?	347 ?	179	197	156	192	155	82	26	0	0	0	0	0	2051 ?
4	0	0	0	0	0	1	27	124	278	434	550 ?	478	156	33	32	16	29	30	14	1	0	0	0	0	2202
5	0	0	0	0	0	0	27	108	126	253	392	452	477	384	249	222	180	94	41	0	0	0	0	0	3006
6	0	0	0	0	0	1	54	219	410	578 ?	?	783 ?	405	334	265	160	120	108	31	0	0	0	0	0	3469
7	0	0	0	0	0	1	67	218	394	588 ?	?	?	399	274	245	223	182	126	48	1	0	0	0	0	2768 ?
8	0	0	0	0	0	1	65	253 ?	442	555 ?	?	778 ?	440 ?	228	213	183	146	104	36	0	0	0	0	0	3444 ?
9	0	0	0	0	0	1	59	237	397 ?	549 ?	757 ?	791 ?	603 ?	311	258	171	124	93	26	0	0	0	0	0	4376 ?
10	0	0	0	0	0	1	63	215 ?	440	279	284	385	664	423	248	219	184	93	26	0	0	0	0	0	3523
11	0	0	0	0	0	1	59	233	421	471 ?	590 ?	559 ?	606 ?	399	203	151	120	92	35	0	0	0	0	0	3940 ?
12	0	0	0	0	0	0	55	109	271 ?	222	390	573	568 ?	314	318	324	166	120	52	0	0	0	0	0	3482
13	0	0	0	0	0	0	53	193	413	553 ?	698 ?	685 ?	652 ?	433 ?	399	319	225	148	56	0	0	0	0	0	4828 ?
14	0	0	0	0	0	1	54	169	307	533 ?	435 ?	313	109	299	335	217	142	100	42	0	0	0	0	0	3056
15	0	0	0	0	0	0	55	224	414	579 ?	?	?	723 ?	755 ?	444	302	210	130	40	0	0	0	0	0	3877 ?
16	0	0	0	0	0	0	54	228	385	423 ?	716 ?	728 ?	757 ?	722 ?	427 ?	275	164	109	35	0	0	0	0	0	5027 ?
17	0	0	0	0	0	0	49	228	421	553 ?	?	?	813 ?	782 ?	647 ?	302	151	105	32	0	0	0	0	0	4084 ?
18	0	0	0	0	0	0	56	231	429	512 ?	?	?	?	?	?	463 ?	206	141	30	0	0	0	0	0	2068 ?
19	0	0	0	0	0	0	50	175	306	557	628	708 ?	715 ?	736 ?	695	545	372	165	27	0	0	0	0	0	5679
20	0	0	0	0	0	0	27	73	297	575	665 ?	719 ?	694 ?	739 ?	600 ?	471	247	43	9	0	0	0	0	0	5159
21	0	0	0	0	0	0	32	152	287	457	577 ?	410	563	473	365	299	270	178	37	0	0	0	0	0	4101
22	0	0	0	0	0	0	51	218	361	595 ?	621 ?	668 ?	416	566	471 ?	170 ?	205	132	28	0	0	0	0	0	4503 ?
23	0	0	0	0	0	0	56	216	423 ?	510 ?	403	345	482 ?	?	?	435 ?	397	198	24	0	0	0	0	0	3489 ?
24	0	0	0	0	0	0	50	240 ?	358 ?	?	?	722 ?	800 ?	769 ?	?	?	396 ?	185	26	0	0	0	0	0	3546 ?
25	0	0	0	0	0	0	50	236	426	?	749 ?	277	347 ?	472 ?	670 ?	541 ?	367	75	1	0	0	0	0	0	4210 ?
26	0	0	0	0	0	0	45	216	435	521 ?	470 ?	?	?	752 ?	?	549 ?	349 ?	207	44	0	0	0	0	0	3588 ?
27	0	0	0	0	0	0	11	178	415 ?	293 ?	455 ?	628 ?	?	732 ?	493 ?	289	205 ?	132	20	0	0	0	0	0	3851 ?
28	0	0	0	0	0	0	55	220	400	552 ?	666 ?	?	?	?	562 ?	519	336	141	22	0	0	0	0	0	3473 ?
29	0	0	0	0	0	0	27	35	97	74	494	671	593 ?	519	459	408	295	137	16	0	0	0	0	0	3825
30	0	0	0	0	0	0	41	216	333	398 ?	521 ?	498 ?	464	390	254	244 ?	207	71	11	0	0	0	0	0	3647
Avg	0	0	0	0	0	0	49	201	363	465	560	544	496	457	358	292	212	116	29	0	0	0	0	0	3618
S D	0	0	0	0	0	1	14	60	85	135	132	179	212	221	175	142	94	43	13	0	0	0	0	0	919
S/A	0	0	0	0	0	1.18	0.29	0.3	0.23	0.29	0.24	0.33	0.43	0.49	0.49	0.48	0.44	0.37	0.45	2.1	0	0	0	0	0.25
Min	0	0	0	0	0	0	11	35	97	74	284	216	109	33	32	16	29	30	1	0	0	0	0	0	1938
Max	0	0	0	0	0	3	77	309	442	595	757	791	813	782	695	549	397	207	56	1	0	0	0	0	5679

Daylight Data Recovery: 0% missing; 23% exceed the 15% QC threshold -- 4755 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