

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - March 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	0 ?	94	245	449	653	818	847	739	708	524	320	105	3	0	0	0	0	0	5504
2	0	0	0	0	0	0	2	100	304	520	691	801	734	579	624	527	300	86	4	0	0	0	0	0	5270
3	0	0	0	0	0	0	2	51	156	512	695	790	844	794	691	499	284	92	2	0	0	0	0	0	5412
4	0	0	0	0	0	0	3	69	178	419	489	419	281	146	583	468	316	105	4	0	0	0	0	0	3480
5	0	0	0	0	0	0	4	120	338	558	726	846	872	833	731	545	325	106	3	0	0	0	0	0	6007
6	0	0	0	0	0	0	4	95	222 ?	525	710	806	862	863	707	439	243	72	4	0	0	0	0	0	5552
7	0	0	0	0	0	0	5	136	267	497	733	806	855	843	717	543	299	99	3	0	0	0	0	0	5803
8	0	0	0	0	0	0	7	141	349	568	739	844	875	837	729	556	337	115	5	0	0	0	0	0	6100
9	0	0	0	0	0	0	8	135	351	558	733	722	855	829	735	553	332	111	4	0	0	0	0	0	5926
10	0	0	0	0	0	0	7	124	322	487	506	754	859	618	363	400	289	84	6	0	0	0	0	0	4818
11	0	0	0	0	0	0	9	124	293	448	639	576	630	540	492	430	318	116	5	0	0	0	0	0	4619
12	0	0	0	0	0	0	4	36	151	571	786	902	937	910	782	595	368	136	6	0	0	0	0	0	6184
13	0	0	0	0	0	0	10	135	382	582	684	718	754	743	700	539	381	139	7	0	0	0	0	0	5775
14	0	0	0	0	0	0	7	104	288	550	774	869	874	889	734	580	367	137	7	0	0	0	0	0	6178
15	0	0	0	0	0	0	9	147	340	482	712	782	760	850	753	567	363	131	7	0	0	0	0	0	5904
16	0	0	0	0	0	0	15	131	287	492	519	751	573	625	534	304	169	42	0	0	0	0	0	0	4443
17	0	0	0	0	0	0	6	132	196	200	144	341	319	399	290	271	181	72	3	0	0	0	0	0	2555
18	0	0	0	0	0	0	20	174	304	563	713	616	416	747	442	506	323	98	6	0	0	0	0	0	4929
19	0	0	0	0	0	0	9	151	187	342	589	517	409	448	398	263	73	43	3	0	0	0	0	0	3434
20	0	0	0	0	0	0	5	48	165	341	685	827	836	679	417	337	186	126	9	0	0	0	0	0	4662
21	0	0	0	0	0	0	21	165	224	285	294	425	336	580	745	593	379	149	10	0	0	0	0	0	4207
22	0	0	0	0	0	0	18	179	406	619	777	839	922	848	746	530	319	146	10	0	0	0	0	0	6358
23	0	0	0	0	0	0	23	194	436	634	808	886	786	616	407	165	83	22	2	0	0	0	0	0	5062
24	0	0	0	0	0	0	15	112	167	181	733	888	809	919	779	600	379	153	11	0	0	0	0	0	5748
25	0	0	0	0	0	0	30	191	405	598	811	878	913	906	783	602	381	141	8	0	0	0	0	0	6650
26	0	0	0	0	0	0	24	163	314	480	522	868	705	671	548	583	309	87	7	0	0	0	0	0	5282
27	0	0	0	0	0	0	18	141	235	201	347	800	759	600	401	513	262	100	4	0	0	0	0	0	4382
28	0	0	0	0	0	0	37	240	455	669	846	904	954	918	756	616	393	163	15	0	0	0	0	0	6967
29	0	0	0	0	0	0	33	218	442	654	822	891	934	907	789	531	370	168	20	0	0	0	0	0	6777
30	0	0	0	0	0	0	13	80	226	538	444	584	531	759	309	154	46	15	2	0	0	0	0	0	3701
31	0	0	0	0	0	0	7	30	113	300	424	369	610	476	571	379	172	52	12	0	0	0	0	0	3515
Avg	0	0	0	0	0	0	12	128	282	478	637	737	731	713	612	475	286	104	6	0	0	0	0	0	5200
S/D	0	0	0	0	0	0	10	50	93	132	167	166	197	181	159	127	95	39	4	0	0	0	0	0	1077
S/A	0	0	0	0	0	0	0.79	0.39	0.33	0.28	0.26	0.23	0.27	0.25	0.26	0.27	0.33	0.38	0.66	0	0	0	0	0	0.21
Min	0	0	0	0	0	0	0	30	113	181	144	341	281	146	290	154	46	15	0	0	0	0	0	0	2555
Max	0	0	0	0	0	0	37	240	455	669	846	904	954	919	789	616	393	168	20	0	0	0	0	0	6967

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4459 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 - March 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	94	45	65	20	25	24	24	32	32	33	24	19	8	0	0	0	0	0	445
2	0	0	0	0	0	0	25	38	38	43	28	29	35	36	33	37	30	25	119	0	0	0	0	0	515
3	0	0	0	0	0	0	1	52	61	81	21	31	23	29	33	37	28	17	0	0	0	0	0	0	449
4	0	0	0	0	0	0	10	61	51	43	66	45	48	15	45	38	40	19	13	0	0	0	0	0	493
5	0	0	0	0	0	0	0	12	26	37	23	24	11	12	31	21	36	21	14	0	0	0	0	0	268
6	0	0	0	0	0	0	31	12	0	22	32	32	30	38	65	56	46	31	12	0	0	0	0	0	406
7	0	0	0	0	0	0	9	12	25	55	27	33	19	18	29	36	44	34	10	0	0	0	0	0	351
8	0	0	0	0	0	0	4	26	17	40	27	15	12	22	23	30	32	20	13	0	0	0	0	0	280
9	0	0	0	0	0	0	4	12	20	34	30	41	37	30	35	36	36	17	7	0	0	0	0	0	338
10	0	0	0	0	0	0	99	26	38	58	66	34	27	44	47	50	48	41	33	0	0	0	0	0	610
11	0	0	0	0	0	0	35	36	46	69	44	31	43	46	53	56	42	22	11	0	0	0	0	0	536
12	0	0	0	0	0	0	6	18	46	39	23	6	4	17	23	20	24	17	38	0	0	0	0	0	282
13	0	0	0	0	0	0	10	42	57	48	46	38	48	59	57	44	27	18	30	0	0	0	0	0	525
14	0	0	0	0	0	0	12	56	24	42	30	11	22	38	33	34	32	20	21	0	0	0	0	0	375
15	0	0	0	0	0	0	33	46	41	56	35	36	32	31	30	34	35	25	17	0	0	0	0	0	450
16	0	0	0	0	0	0	66	60	58	55	64	28	42	52	57	60	42	20	9	0	0	0	0	0	613
17	0	0	0	0	0	0	17	55	60	49	28	59	47	66	54	61	60	31	7	0	0	0	0	0	594
18	0	0	0	0	0	0	38	97	49	28	48	42	52	65	65	73	56	45	26	0	0	0	0	0	685
19	0	0	0	0	0	0	37	77	63	69	74	86	66	75	73	58	22	28	6	0	0	0	0	0	735
20	0	0	0	0	0	0	17	29	53	74	55	42	32	57	44	42	36	21	36	0	0	0	0	0	539
21	0	0	0	0	0	0	19	36	74	68	55	70	54	77	71	27	22	12	37	0	0	0	0	0	623
22	0	0	0	0	0	0	22	38	28	33	41	44	22	39	46	51	41	21	26	0	0	0	0	0	451
23	0	0	0	0	0	0	69	38	32	50	42	44	74	72	65	38	23	12	4	0	0	0	0	0	565
24	0	0	0	0	0	0	24	68	55	43	61	5	35	35	35	35	26	22	30	0	0	0	0	0	472
25	0	0	0	0	0	0	48	33	54	7	28	2	1	25	32	30	26	19	12	0	0	0	0	0	317
26	0	0	0	0	0	0	30	72	29	84	68	9	44	82	68	63	43	21	10	0	0	0	0	0	621
27	0	0	0	0	0	0	189	56	64	44	54	26	31	50	58	72	56	43	85	0	0	0	0	0	828
28	0	0	0	0	0	0	93	56	31	24	27	4	3	16	28	25	17	6	54	0	0	0	0	0	382
29	0	0	0	0	0	0	65	25	26	21	27	2	4	16	28	53	24	14	42	0	0	0	0	0	348
30	0	0	0	0	0	0	18	42	55	56	67	65	53	65	54	33	14	7	2	0	0	0	0	0	530
31	0	0	0	0	0	0	11	16	33	66	77	60	90	78	93	85	52	31	25	0	0	0	0	0	718
Avg	0	0	0	0	0	0	37	42	43	47	43	33	34	43	46	44	35	23	25	0	0	0	0	0	495
S/D	0	0	0	0	0	0	39	21	17	18	17	21	21	21	17	16	12	9	24	0	0	0	0	0	141
S/A	0	0	0	0	0	0	1.07	0.5	0.4	0.39	0.4	0.63	0.61	0.49	0.37	0.36	0.33	0.4	0.97	0	0	0	0	0	0.29
Min	0	0	0	0	0	0	0	12	0	7	21	2	1	12	23	20	14	6	2	0	0	0	0	0	268
Max	0	0	0	0	0	0	189	97	74	84	77	86	90	82	93	85	60	45	119	0	0	0	0	0	828

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4459 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 - March 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
2	0	0	0	0	0	0	1	94	287 ?	411 ?	?	?	578 ?	442 ?	519 ?	418 ?	288	81	3	0	0	0	0	0	3123 ?
3	0	0	0	0	0	0	2	43	134	378 ?	?	?	?	?	555 ?	456 ?	269	87	2	0	0	0	0	0	1927 ?
4	0	0	0	0	0	0	2	59	160	330 ?	399	352	242	134	474 ?	433	285	103	4	0	0	0	0	0	2977 ?
5	0	0	0	0	0	0	4	117	?	?	?	?	?	?	455 ?	311	103	103	3	0	0	0	0	0	993 ?
6	0	0	0	0	0	0	4	97	221 ?	?	?	668 ?	687 ?	707 ?	509 ?	387	215	65	3	0	0	0	0	0	3564 ?
7	0	0	0	0	0	0	5	100 ?	247 ?	345 ?	?	519 ?	591 ?	?	599 ?	423 ?	282	91	3	0	0	0	0	0	3205 ?
8	0	0	0	0	0	0	4 ?	121	?	?	?	?	?	?	?	460 ?	325	112	4	0	0	0	0	0	1026 ?
9	0	0	0	0	0	0	7	114	?	?	?	415 ?	402 ?	663 ?	?	472 ?	318	108	3	0	0	0	0	0	2501 ?
10	0	0	0	0	0	0	7	120	310 ?	450	460	414 ?	693 ?	395 ?	303	314	269	75	6	0	0	0	0	0	3814 ?
11	0	0	0	0	0	0	8	118	221 ?	363 ?	490 ?	322 ?	417 ?	397 ?	315 ?	350	301	112	5	0	0	0	0	0	3418 ?
12	0	0	0	0	0	0	4	33	133	434 ?	?	?	?	?	?	?	331 ?	132	4	0	0	0	0	0	1071 ?
13	0	0	0	0	0	0	10	132	256 ?	514 ?	610 ?	662	670 ?	634 ?	519 ?	476 ?	325 ?	135	6	0	0	0	0	0	4949 ?
14	0	0	0	0	0	0	7	94	206 ?	436 ?	?	?	627 ?	?	563 ?	510 ?	334 ?	133	6	0	0	0	0	0	2916 ?
15	0	0	0	0	0	0	9	133	312 ?	382 ?	600 ?	479 ?	545 ?	671 ?	?	416 ?	338	126	6	0	0	0	0	0	4017 ?
16	0	0	0	0	0	0	11 ?	107	246 ?	367 ?	391 ?	555 ?	480	456 ?	442	244	118	37	0	0	0	0	0	0	3453 ?
17	0	0	0	0	0	0	6	105	172	171	123	292	278	344	251	234	156	64	3	0	0	0	0	0	2198
18	0	0	0	0	0	0	14 ?	167 ?	262 ?	465 ?	576 ?	397 ?	371	495 ?	393	445	298	87	6	0	0	0	0	0	3977 ?
19	0	0	0	0	0	0	8	120	160	301	475	446	353	385	342	226	64	36	3	0	0	0	0	0	2920
20	0	0	0	0	0	0	4	42	144	296	537 ?	576 ?	578 ?	446 ?	343	290	170	122	8	0	0	0	0	0	3555 ?
21	0	0	0	0	0	0	21	157	193	244	253	366	289	447	580 ?	576 ?	360	146	8	0	0	0	0	0	3639
22	0	0	0	0	0	0	17	143 ?	355 ?	?	559 ?	517 ?	?	690 ?	566 ?	450 ?	300	141	8	0	0	0	0	0	3745 ?
23	0	0	0	0	0	0	21	150 ?	?	555 ?	597 ?	676 ?	614 ?	458 ?	356	142	72	19	2	0	0	0	0	0	3663 ?
24	0	0	0	0	0	0	15	97	142	154	501 ?	?	675 ?	?	?	?	368	148	9	0	0	0	0	0	2109 ?
25	0	0	0	0	0	0	30	181 ?	384	?	?	?	?	?	?	?	360	137	8	0	0	0	0	0	1099 ?
26	0	0	0	0	0	0	22	139	284 ?	418	445	599 ?	588 ?	516	422	490 ?	266	81	6	0	0	0	0	0	4277 ?
27	0	0	0	0	0	0	15	116	206	173	304	572 ?	566 ?	521	356	420 ?	217	90	4	0	0	0	0	0	3560
28	0	0	0	0	0	0	33	135 ?	320 ?	?	?	710 ?	?	?	587 ?	?	368	163	10	0	0	0	0	0	2326 ?
29	0	0	0	0	0	0	35	149 ?	?	?	?	?	?	?	593 ?	437 ?	309 ?	165	16	0	0	0	0	0	1703 ?
30	0	0	0	0	0	0	11	68	199	412 ?	392	504	444	590 ?	266	133	39	13	1	0	0	0	0	0	3074
31	0	0	0	0	0	0	6	26	97	257	363	317	528	407	480	324	147	45	11	0	0	0	0	0	3006
Avg	0	0	0	0	0	0	11	109	226	357	449	493	510	490	449	384	260	99	5	0	0	0	0	0	2927
S/D	0	0	0	0	0	0	9	39	74	106	128	125	137	137	112	111	93	41	3	0	0	0	0	0	1016
S/A	0	0	0	0	0	0	0.79	0.35	0.33	0.3	0.29	0.25	0.27	0.28	0.25	0.29	0.36	0.41	0.6	0	0	0	0	0	0.35
Min	0	0	0	0	0	0	1	26	97	154	123	292	242	134	251	133	39	13	0	0	0	0	0	0	993
Max	0	0	0	0	0	0	35	181	384	555	610	710	693	707	599	576	368	165	16	0	0	0	0	0	4949

Daylight Data Recovery: 0% missing; 37% exceed the 15% QC threshold -- 4320 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