

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - March 2001**

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	1	76	189	269	276	287	476	454	368	101	191	84	3	0	0	0	0	0	2775
2	0	0	0	0	0	0	1	48	277	434	654	690	575	801	418	336	207	94	4	0	0	0	0	0	4539
3	0	0	0	0	0	0	2	55	198	369	527	689	527	477	509	378	261	91	4	0	0	0	0	0	4087
4	0	0	0	0	0	0	2	96	171	86	98	149	78	48	35	52	111	86	9	0	0	0	0	0	1020
5	0	0	0	0	0	0	2	109	339	552	734	859	908	878	762	580	357	126	6	0	0	0	0	0	6213
6	0	0	0	0	0	0	3	118	351	569	757	881	926	896	778	592	368	133	6	0	0	0	0	0	6379
7	0	0	0	0	0	0	3	117	347	561	744	864	910	882	765	583	357	130	6	0	0	0	0	0	6270
8	0	0	0	0	0	0	4	121	350	562	746	864	909	879	761	578	359	131	7	0	0	0	0	0	6272
9	0	0	0	0	0	0	4	99	284	547	754	780	776	705	468	221	144	68	2	0	0	0	0	0	4851
10	0	0	0	0	0	0	3	86	199	481	572	745	749	860	746	387	265	73	7	0	0	0	0	0	5172
11	0	0	0	0	0	0	4	99	307	515	604	785	865	875	716	435	331	103	5	0	0	0	0	0	5646
12	0	0	0	0	0	0	5	87	316	511	717	817	787	665	373	322	237	96	8	0	0	0	0	0	4940
13	0	0	0	0	0	0	1	31	56	105	21	7 ?	? 9 ?	93	95	128	122	10	0	0	0	0	0	0	679 ?
14	0	0	0	0	0	0	5	116	196	590	726	857	878	539	662	366	163	79	2	0	0	0	0	0	5178
15	0	0	0	0	0	0	4	54	152	396	617	755	764	679	642	452	311	107	11	0	0	0	0	0	4943
16	0	0	0	0	0	0	0	23	23	21	87	181	281	325	583	398	338	119	8	0	0	0	0	0	2387
17	0	0	0	0	0	0	6	110	255	443	664	871	862	846	743	211	147	67	2	0	0	0	0	0	5227
18	0	0	0	0	0	0	1	12	45	59	89	89	? 76 ?	? 23	91	49	42	22	1	0	0	0	0	0	640
19	0	0	0	0	0	0	1	18	33	39	105	169	76 ?	? 23	13	10	4	1	0	0	0	0	0	0	493
20	0	0	0	0	0	0	13	102	313	595	779	716	770	593	507	154	337	80	15	0	0	0	0	0	4975
21	0	0	0	0	0	0	4	87	249	515	721	900	838	916	791	419	247	163	11	0	0	0	0	0	5862
22	0	0	0	0	0	0	18	173	409	623	808	909	914	924	802	620	399	160	14	0	0	0	0	0	6774
23	0	0	0	0	0	0	20	181	384	587	788	890	898	907	790	613	393	158	14	0	0	0	0	0	6624
24	0	0	0	0	0	0	22	158	373	583	778	886	904	894	774	585	375	150	13	0	0	0	0	0	6494
25	0	0	0	0	0	0	22	132	386	594	779	795	732	692	510	414	262	110	13	0	0	0	0	0	5440
26	0	0	0	0	0	0	15	98	319	606	786	886	916	925	793	600	373	165	15	0	0	0	0	0	6496
27	0	0	0	0	0	0	23	181	398	603	791	897	925	899	784	615	365	163	16	0	0	0	0	0	6659
28	0	0	0	0	0	0	24	175	324	589	785	814	922	903	730	528	326	147	12	0	0	0	0	0	6278
29	0	0	0	0	0	0	5	52	93	223	185	171	? 76	? 120	108	66	32	16	1	0	0	0	0	0	1072
30	0	0	0	0	0	0	14	72	282	420	213	181 ?	? 524	438	280	254	45	7	0	0	0	0	0	0	2729
Avg	0	0	0	0	0	0	8	96	254	435	563	646	737	664	552	368	256	103	8	0	0	0	0	0	4570
S D	0	0	0	0	0	0	8	47	114	193	270	305	248	286	255	198	113	44	5	0	0	0	0	0	2037
S/A	0	0	0	0	0	0	1	0.49	0.45	0.44	0.48	0.47	0.34	0.43	0.46	0.54	0.44	0.43	0.61	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	12	23	21	21	7	76	9	23	13	10	4	1	0	0	0	0	0	493
Max	0	0	0	0	0	0	24	181	409	623	808	909	926	925	802	620	399	165	16	0	0	0	0	0	6774

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 4310 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 2001**

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	23	37	41	50	32	29	33	52	51	8	51	27	5	0	0	0	0	0	439
2	0	0	0	0	0	0	8	42	69	42	34	40	50	53	55	60	53	42	59	0	0	0	0	0	608
3	0	0	0	0	0	0	16	54	60	50	45	49	62	52	58	65	53	45	22	0	0	0	0	0	629
4	0	0	0	0	0	0	12	72	54	19	10	18	2	2	1	9	31	61	16	0	0	0	0	0	308
5	0	0	0	0	0	0	1	2	17	14	5	11	14	28	34	29	28	30	13	0	0	0	0	0	227
6	0	0	0	0	0	0	4	2	16	12	5	10	13	27	33	28	30	30	15	0	0	0	0	0	226
7	0	0	0	0	0	0	5	2	16	11	7	12	15	29	33	29	26	25	28	0	0	0	0	0	238
8	0	0	0	0	0	0	6	1	16	10	7	12	16	30	33	31	30	30	24	0	0	0	0	0	245
9	0	0	0	0	0	0	15	43	35	11	15	42	64	51	60	47	41	20	16	0	0	0	0	0	460
10	0	0	0	0	0	0	31	53	58	54	68	43	38	40	40	53	75	46	38	0	0	0	0	0	636
11	0	0	0	0	0	0	13	31	65	26	45	27	31	47	37	51	47	43	18	0	0	0	0	0	481
12	0	0	0	0	0	0	17	40	32	32	16	14	40	50	45	48	48	51	12	0	0	0	0	0	447
13	0	0	0	0	0	0	2	21	21	26	4	0	1	2	13	20	42	60	23	0	0	0	0	0	235
14	0	0	0	0	0	0	11	42	66	31	26	24	34	75	75	71	40	53	10	0	0	0	0	0	559
15	0	0	0	0	0	0	20	37	47	56	52	45	44	56	56	51	55	47	15	0	0	0	0	0	582
16	0	0	0	0	0	0	0	16	8	5	16	27	41	53	70	64	55	41	8	0	0	0	0	0	404
17	0	0	0	0	0	0	15	45	65	75	52	26	35	43	60	24	48	27	4	0	0	0	0	0	520
18	0	0	0	0	0	0	3	4	16	10	16	15	6	24	18	10	13	12	3	0	0	0	0	0	151
19	0	0	0	0	0	0	1	12	10	8	19	26	9	6	5	2	2	2	5	0	0	0	0	0	107
20	0	0	0	0	0	0	24	41	47	23	30	31	19	65	40	36	60	42	31	0	0	0	0	0	487
21	0	0	0	0	0	0	10	37	65	44	56	21	3	34	56	61	46	20	24	0	0	0	0	0	476
22	0	0	0	0	0	0	29	29	20	23	22	15	0	29	29	31	29	8	63	0	0	0	0	0	327
23	0	0	0	0	0	0	41	61	25	6	22	18	0	29	27	35	30	10	48	0	0	0	0	0	352
24	0	0	0	0	0	0	44	15	25	11	27	19	1	35	28	49	35	19	22	0	0	0	0	0	332
25	0	0	0	0	0	0	33	48	30	16	24	46	53	75	69	72	62	42	39	0	0	0	0	0	608
26	0	0	0	0	0	0	26	54	52	22	27	19	4	37	24	41	36	8	55	0	0	0	0	0	405
27	0	0	0	0	0	0	54	27	26	11	22	19	3	36	22	56	49	11	82	0	0	0	0	0	417
28	0	0	0	0	0	0	36	40	54	18	25	52	11	34	28	50	50	35	27	0	0	0	0	0	458
29	0	0	0	0	0	0	8	26	28	48	32	25	4	19	21	15	11	9	1	0	0	0	0	0	245
30	0	0	0	0	0	0	24	39	55	63	38	20	3	50	71	50	54	23	10	0	0	0	0	0	499
Avg	0	0	0	0	0	0	18	32	38	28	27	25	22	39	40	40	41	31	25	0	0	0	0	0	404
S/D	0	0	0	0	0	0	14	19	19	19	16	13	20	18	20	19	16	16	20	0	0	0	0	0	146
S/A	0	0	0	0	0	0	0.78	0.58	0.51	0.69	0.61	0.51	0.92	0.47	0.5	0.49	0.39	0.54	0.8	0	0	0	0	0	0.36
Min	0	0	0	0	0	0	0	1	8	5	4	0	0	2	1	2	2	2	1	0	0	0	0	0	107
Max	0	0	0	0	0	0	54	72	69	75	68	52	64	75	75	72	75	61	82	0	0	0	0	0	636

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4310 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 - March 2001**

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	1	72	176	243	255	265	423	413	333	96	171	78	3	0	0	0	0	0	2529
2	0	0	0	0	0	0	1	42	254	349 ?	547 ?	465 ?	498	664 ?	379	302	186	86	4	0	0	0	0	0	3777 ?
3	0	0	0	0	0	0	2	47	177	342	459	571 ?	451	437	422	341	211	82	3	0	0	0	0	0	3545
4	0	0	0	0	0	0	2	76	150	76	91	135	76	47	34	47	99	74	8	0	0	0	0	0	916
5	0	0	0	0	0	0	2	110		? ?	? ?	? ?	? ?	? ?	? ?	? ?	287 ?	121	6	0	0	0	0	0	526 ?
6	0	0	0	0	0	0	3	102		? ?	? ?	? ?	? ?	? ?	? ?	? ?	292 ?	128	5	0	0	0	0	0	530 ?
7	0	0	0	0	0	0	4	110		? ?	? ?	? ?	? ?	? ?	? ?	? ?	330 ?	125	5	0	0	0	0	0	574 ?
8	0	0	0	0	0	0	4	114		? ?	? ?	? ?	? ?	? ?	? ?	? ?	316 ?	125	6	0	0	0	0	0	566 ?
9	0	0	0	0	0	0	3	93	267	424 ?	? ?	651 ?	627 ?	527 ?	388	194	127	63	1	0	0	0	0	0	3365 ?
10	0	0	0	0	0	0	2	76	177	303 ?	446 ?	471 ?	491 ?	? ?	? ?	259 ?	230	63	6	0	0	0	0	0	2524 ?
11	0	0	0	0	0	0	3	94	282	435 ?	491 ?	537 ?	667 ?	? ?	? ?	317 ?	312	93	5	0	0	0	0	0	3236 ?
12	0	0	0	0	0	0	5	79	304	484 ?	? ?	? ?	675 ?	477 ?	340	293	216	85	7	0	0	0	0	0	2966 ?
13	0	0	0	0	0	0	1	27	48	90	18	7	? ?	? ?	84	84	111	107	9	0	0	0	0	0	595 ?
14	0	0	0	0	0	0	5	81 ?	170	456 ?	510 ?	? ?	? ?	442	532 ?	323	145	68	1	0	0	0	0	0	2732 ?
15	0	0	0	0	0	0	4	47	133	346	568	659 ?	647 ?	602	531 ?	400	276	97	10	0	0	0	0	0	4320
16	0	0	0	0	0	0	0	20	20	19	75	158	244	281	502	359	302	110	8	0	0	0	0	0	2097
17	0	0	0	0	0	0	5	101	208	372	516 ?	? ?	662 ?	590 ?	524 ?	146	126	59	2	0	0	0	0	0	3312 ?
18	0	0	0	0	0	0	1	11	38	53	77	75	? ?	119	77	43	36	19	1	0	0	0	0	0	550
19	0	0	0	0	0	0	1	16	29	34	91	144	65 ?	? ?	20	12	9	4	1	0	0	0	0	0	425
20	0	0	0	0	0	0	12	94	240 ?	? ?	? ?	477 ?	501 ?	439	? ?	132	252 ?	70	13	0	0	0	0	0	2452 ?
21	0	0	0	0	0	0	4	63	216	345 ?	505 ?	713 ?	704 ?	? ?	532 ?	308 ?	227	137	10	0	0	0	0	0	3763 ?
22	0	0	0	0	0	0	17	147		? ?	? ?	? ?	? ?	? ?	? ?	352 ?	158	10	0	0	0	0	0	0	684 ?
23	0	0	0	0	0	0	19	168	386	? ?	? ?	? ?	? ?	? ?	? ?	353 ?	156	11	0	0	0	0	0	0	1092 ?
24	0	0	0	0	0	0	22	154	344	? ?	? ?	? ?	? ?	? ?	542 ?	359	145	11	0	0	0	0	0	0	1577 ?
25	0	0	0	0	0	0	22	121	372	458 ?	? ?	632 ?	602 ?	560 ?	456	339	234	94	10	0	0	0	0	0	3900 ?
26	0	0	0	0	0	0	13	85	277	? ?	? ?	? ?	? ?	? ?	494 ?	332	163	11	0	0	0	0	0	0	1376 ?
27	0	0	0	0	0	0	21	175	377	? ?	? ?	? ?	? ?	? ?	415 ?	343	160	12	0	0	0	0	0	0	1503 ?
28	0	0	0	0	0	0	22	165	283	425 ?	? ?	605 ?	? ?	? ?	632 ?	459 ?	303	138	11	0	0	0	0	0	3044 ?
29	0	0	0	0	0	0	4	44	80	192	160	146	? ?	102	92	56	27	13	1	0	0	0	0	0	919
30	0	0	0	0	0	0	12	62	256	379	183	156 ?	? ?	291 ?	382	247	228	38	6	0	0	0	0	0	2241
Avg	0	0	0	0	0	0	7	87	211	291	312	382	489	375	341	259	226	95	7	0	0	0	0	0	2054
S/D	0	0	0	0	0	0	7	45	108	153	201	233	203	203	190	150	101	43	4	0	0	0	0	0	1248
S/A	0	0	0	0	0	0	1.02	0.52	0.51	0.53	0.65	0.61	0.41	0.54	0.56	0.58	0.45	0.45	0.57	0	0	0	0	0	0.61
Min	0	0	0	0	0	0	0	11	20	19	18	7	65	9	20	12	9	4	1	0	0	0	0	0	425
Max	0	0	0	0	0	0	22	175	386	484	568	713	704	664	632	542	359	163	13	0	0	0	0	0	4320

Daylight Data Recovery: 0% missing; 36% exceed the 15% QC threshold -- 4310 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