

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - December 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	47	224	395	534	627	632	583	460	289	109	4	0	0	0	0	0	0	3905
2	0	0	0	0	0	0	0	28	175	321	477	572	635	570	455	288	104	4	0	0	0	0	0	0	3629
3	0	0	0	0	0	0	0	19	91	181	253	168	226	275	180	123	21	1	0	0	0	0	0	0	1536
4	0	0	0	0	0	0	0	22	98	164	381	608	632	504	339	118	63	8	0	0	0	0	0	0	2935
5	0	0	0	0	0	0	0	51	209	383	522	611	642	580	464	299	113	6	0	0	0	0	0	0	3879
6	0	0	0	0	0	0	0	48	217	400	542	626	648	579	457	293	110	4	0	0	0	0	0	0	3924
7	0	0	0	0	0	0	0	38	197	373	514	602	618	532	446	260	66	3	0	0	0	0	0	0	3648
8	0	0	0	0	0	0	0	44	205	362	498	596	549	554	433	257	60	4	0	0	0	0	0	0	3562
9	0	0	0	0	0	0	0	30	154	319	465	364	488	555	438	280	94	7	0	0	0	0	0	0	3194
10	0	0	0	0	0	0	0	44	213	373	477	568	605	549	424	201	53	4	0	0	0	0	0	0	3512
11	0	0	0	0	0	0	0	18	78	161	206	233	543	560	366	259	64	4	0	0	0	0	0	0	2492
12	0	0	0	0	0	0	0	27	79	76	117	309	310	380	189	180	94	5	0	0	0	0	0	0	1765
13	0	0	0	0	0	0	0	10	86	275	469	560	598	446	439	285	107	5	0	0	0	0	0	0	3278
14	0	0	0	0	0	0	0	36	186	350	470	485	501	388	178	186	68	3	0	0	0	0	0	0	2851
15	0	0	0	0	0	0	0	27	85	208	310	417	357	300	395	278	96	3	0	0	0	0	0	0	2477
16	0	0	0	0	0	0	0	37	169	292	453	560	620	475	264	208	107	11	0	0	0	0	0	0	3194
17	0	0	0	0	0	0	0	7	78	347	503	597	636	561	448	307	120	7	0	0	0	0	0	0	3611
18	0	0	0	0	0	0	0	33	192	375	516	606	635	579	463	304	158	9	0	0	0	0	0	0	3871
19	0	0	0	0	0	0	0	20	178	387	259	91	133	107	39	35	62	8	0	0	0	0	0	0	1319
20	0	0	0	0	0	0	0	34	199	393	539	633	666	606	485	319	130	8	0	0	0	0	0	0	4012
21	0	0	0	0	0	0	0	37	160	177	375	342	605	566	450	302	100	6	0	0	0	0	0	0	3121
22	0	0	0	0	0	0	0	20	154	324	465	473	516	492	419	310	118	7	0	0	0	0	0	0	3298
23	0	0	0	0	0	0	0	27	163	352	448	527	575	327	249	308	74	6	0	0	0	0	0	0	3056
24	0	0	0	0	0	0	0	13	140	208	329	361	280	218	133	98	69	10	0	0	0	0	0	0	1861
25	0	0	0	0	0	0	0	26	171	353	494	535	474	457	461	307	93	5	0	0	0	0	0	0	3377
26	0	0	0	0	0	0	0	16	71	87	123	116	155	319	350	295	98	4	0	0	0	0	0	0	1635
27	0	0	0	0	0	0	0	23	142	314	464	578	529	457	188	202	124	7	0	0	0	0	0	0	3028
28	0	0	0	0	0	0	0	5	25	55	60	58	47	54	53	20	8	1	0	0	0	0	0	0	387
29	0	0	0	0	0	0	0	2	19	50	141	115	130	184	322	195	72	9	0	0	0	0	0	0	1238
30	0	0	0	0	0	0	0	26	179	373	525	619	665	616	502	340	149	15	0	0	0	0	0	0	4009
Avg	0	0	0	0	0	0	0	27	145	281	398	452	488	446	350	238	90	6	0	0	0	0	0	0	2920
S D	0	0	0	0	0	0	0	13	58	111	143	185	185	154	134	85	33	3	0	0	0	0	0	0	955
S/A	0	0	0	0	0	0	0	0.47	0.4	0.4	0.36	0.41	0.38	0.34	0.38	0.36	0.37	0.49	0	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	0	2	19	50	60	58	47	54	39	20	8	1	0	0	0	0	0	0	387
Max	0	0	0	0	0	0	0	51	224	400	542	633	666	616	502	340	158	15	0	0	0	0	0	0	4012

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3715 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/W/m-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 - December 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	0	22	51	28	27	28	45	28	25	32	31	19	0	0	0	0	0	0	336
2	0	0	0	0	0	0	0	71	75	14	24	24	33	22	29	37	34	20	0	0	0	0	0	0	384
3	0	0	0	0	0	0	0	12	12	17	16	15	16	17	17	16	7	5	0	0	0	0	0	0	150
4	0	0	0	0	0	0	0	9	10	16	27	28	40	46	46	15	16	9	0	0	0	0	0	0	264
5	0	0	0	0	0	0	0	28	47	32	34	20	34	23	27	33	37	19	0	0	0	0	0	0	334
6	0	0	0	0	0	0	0	18	30	30	32	18	33	24	28	33	38	19	0	0	0	0	0	0	303
7	0	0	0	0	0	0	0	19	29	31	33	22	41	40	31	36	26	21	0	0	0	0	0	0	328
8	0	0	0	0	0	0	0	16	40	31	35	26	48	28	31	38	21	8	0	0	0	0	0	0	322
9	0	0	0	0	0	0	0	7	22	32	46	37	33	26	29	35	25	16	0	0	0	0	0	0	306
10	0	0	0	0	0	0	0	26	36	37	33	33	40	29	42	27	17	11	0	0	0	0	0	0	332
11	0	0	0	0	0	0	0	8	12	22	18	14	39	36	42	41	22	10	0	0	0	0	0	0	263
12	0	0	0	0	0	0	0	10	15	11	12	18	30	31	16	34	34	19	0	0	0	0	0	0	229
13	0	0	0	0	0	0	0	9	10	35	33	24	37	37	29	35	35	16	0	0	0	0	0	0	301
14	0	0	0	0	0	0	0	24	16	29	34	38	39	43	21	26	23	7	0	0	0	0	0	0	300
15	0	0	0	0	0	0	0	21	15	18	19	21	26	24	39	38	15	20	0	0	0	0	0	0	257
16	0	0	0	0	0	0	0	59	53	39	32	31	44	38	38	27	25	10	0	0	0	0	0	0	397
17	0	0	0	0	0	0	0	17	16	32	28	21	37	32	29	32	36	8	0	0	0	0	0	0	289
18	0	0	0	0	0	0	0	22	38	31	32	23	36	28	27	32	48	211	0	0	0	0	0	0	528
19	0	0	0	0	0	0	0	11	31	29	20	10	12	11	6	7	37	45	0	0	0	0	0	0	219
20	0	0	0	0	0	0	0	20	36	32	31	23	38	29	28	30	36	46	0	0	0	0	0	0	349
21	0	0	0	0	0	0	0	33	41	22	38	25	45	37	34	42	34	34	0	0	0	0	0	0	385
22	0	0	0	0	0	0	0	8	36	53	46	27	39	43	38	37	30	16	0	0	0	0	0	0	373
23	0	0	0	0	0	0	0	46	32	34	41	36	45	24	28	37	23	13	0	0	0	0	0	0	358
24	0	0	0	0	0	0	0	7	23	14	17	22	18	17	13	11	15	10	0	0	0	0	0	0	168
25	0	0	0	0	0	0	0	21	33	33	33	20	28	38	34	43	24	9	0	0	0	0	0	0	315
26	0	0	0	0	0	0	0	23	17	10	12	11	12	14	32	49	23	15	0	0	0	0	0	0	218
27	0	0	0	0	0	0	0	109	15	23	20	21	34	39	17	34	29	19	0	0	0	0	0	0	361
28	0	0	0	0	0	0	0	14	7	9	7	6	4	6	6	3	2	257	0	0	0	0	0	0	321
29	0	0	0	0	0	0	0	1	6	7	15	11	12	17	32	20	19	33	0	0	0	0	0	0	173
30	0	0	0	0	0	0	0	20	33	31	31	11	33	27	27	29	35	29	0	0	0	0	0	0	306
Avg	0	0	0	0	0	0	0	24	28	26	28	22	32	28	28	30	27	32	0	0	0	0	0	0	306
S D	0	0	0	0	0	0	0	22	16	10	10	8	11	10	10	11	10	55	0	0	0	0	0	0	76
S/A	0	0	0	0	0	0	0	0.92	0.57	0.39	0.36	0.36	0.35	0.35	0.34	0.35	0.37	1.7	0	0	0	0	0	0	0.25
Min	0	0	0	0	0	0	0	1	6	7	7	6	4	6	6	3	2	5	0	0	0	0	0	0	150
Max	0	0	0	0	0	0	0	109	75	53	46	38	48	46	46	49	48	257	0	0	0	0	0	0	528

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3715 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 - December 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	0	45	158 ?	343 ?	?	493 ?	541 ?	?	392 ?	263 ?	104	4	0	0	0	0	0	0	2344 ?
2	0	0	0	0	0	0	0	26	155	327 ?	437 ?	523 ?	?	?	410 ?	266	98	4	0	0	0	0	0	0	2247 ?
3	0	0	0	0	0	0	0	18	87	173	244	159	216	266	172	117	19	1	0	0	0	0	0	0	1471
4	0	0	0	0	0	0	0	21	95	157	280 ?	?	?	447 ?	299	112	60	8	0	0	0	0	0	0	1479 ?
5	0	0	0	0	0	0	0	48	197	380	449 ?	?	?	?	391 ?	258 ?	107	5	0	0	0	0	0	0	1835 ?
6	0	0	0	0	0	0	0	51	186 ?	356 ?	?	?	?	?	391 ?	257 ?	104	4	0	0	0	0	0	0	1349 ?
7	0	0	0	0	0	0	0	36	190	367	449 ?	?	490 ?	445 ?	414 ?	231	61	2	0	0	0	0	0	0	2685 ?
8	0	0	0	0	0	0	0	42	195	349	454 ?	541 ?	492 ?	?	418	245	57	4	0	0	0	0	0	0	2796 ?
9	0	0	0	0	0	0	0	29	149	295	428 ?	342	348 ?	?	413	262	89	6	0	0	0	0	0	0	2361
10	0	0	0	0	0	0	0	42	154 ?	363 ?	460	522 ?	525 ?	484 ?	397	192	50	4	0	0	0	0	0	0	3193 ?
11	0	0	0	0	0	0	0	17	74	152	196	225	415 ?	507 ?	319	244	59	4	0	0	0	0	0	0	2214
12	0	0	0	0	0	0	0	28	75	71	111	298	291	323	182	169	87	4	0	0	0	0	0	0	1641
13	0	0	0	0	0	0	0	9	83	261	442	529 ?	?	347 ?	420	261	100	4	0	0	0	0	0	0	2456 ?
14	0	0	0	0	0	0	0	35	159 ?	341	432 ?	387 ?	393 ?	345	168	166	63	3	0	0	0	0	0	0	2493
15	0	0	0	0	0	0	0	26	81	201	300	382	341	287	348 ?	265	94	2	0	0	0	0	0	0	2327
16	0	0	0	0	0	0	0	35	159	277	419 ?	505 ?	515 ?	367 ?	246	178	102	11	0	0	0	0	0	0	2813
17	0	0	0	0	0	0	0	7	74	336	432 ?	?	?	479 ?	444 ?	241 ?	114	7	0	0	0	0	0	0	2132 ?
18	0	0	0	0	0	0	0	31	168	?	?	?	?	?	391 ?	262 ?	152 ?	9	0	0	0	0	0	0	1013 ?
19	0	0	0	0	0	0	0	20	151	?	98 ?	85	126	101	36	33	52	7	0	0	0	0	0	0	708
20	0	0	0	0	0	0	0	32	157 ?	?	?	?	?	?	?	236 ?	124	8	0	0	0	0	0	0	557 ?
21	0	0	0	0	0	0	0	35	139	169	329	279	476 ?	502 ?	403 ?	257 ?	93	6	0	0	0	0	0	0	2688 ?
22	0	0	0	0	0	0	0	19	145	264 ?	398 ?	413 ?	451 ?	382 ?	330 ?	263 ?	112	7	0	0	0	0	0	0	2783 ?
23	0	0	0	0	0	0	0	25	155	313 ?	300 ?	407 ?	400 ?	261	219	296 ?	50	6	0	0	0	0	0	0	2432 ?
24	0	0	0	0	0	0	0	12	125	203	320	348	269	209	127	95	66	10	0	0	0	0	0	0	1783
25	0	0	0	0	0	0	0	24	164	354 ?	426 ?	506 ?	457	424	416 ?	265 ?	88	5	0	0	0	0	0	0	3129 ?
26	0	0	0	0	0	0	0	16	68	83	116	110	147	311	305	245 ?	94	4	0	0	0	0	0	0	1499
27	0	0	0	0	0	0	0	23	120 ?	351 ?	438 ?	?	425 ?	275 ?	150	189	118	6	0	0	0	0	0	0	2094 ?
28	0	0	0	0	0	0	0	5	24	51	57	54	44	51	50	18	8	1	0	0	0	0	0	0	364
29	0	0	0	0	0	0	0	2	17	47	134	109	123	174	292	188	68	9	0	0	0	0	0	0	1161
30	0	0	0	0	0	0	0	24	171	?	?	?	?	?	?	241 ?	143	14	0	0	0	0	0	0	593 ?
Avg	0	0	0	0	0	0	0	26	129	253	326	344	356	333	305	210	85	6	0	0	0	0	0	0	1955
S/D	0	0	0	0	0	0	0	12	49	107	132	160	146	125	119	70	32	3	0	0	0	0	0	0	777
S/A	0	0	0	0	0	0	0	0.48	0.38	0.42	0.41	0.47	0.41	0.38	0.39	0.33	0.38	0.51	0	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	0	2	17	47	57	54	44	51	36	18	8	1	0	0	0	0	0	0	364
Max	0	0	0	0	0	0	0	51	197	380	460	541	541	507	444	296	152	14	0	0	0	0	0	0	3193

Daylight Data Recovery: 0% missing; 28% exceed the 15% QC threshold -- 3715 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