

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - November 1998

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	7	119	305	491	635	700	672	650	512	332	130	21	0	0	0	0	0	0	4574
2	0	0	0	0	0	0	5	106	315	480	402	455	722	563	469	274	136	10	0	0	0	0	0	0	3938
3	0	0	0	0	0	0	2	53	129	368	224	236	401	248	195	108	60	4	0	0	0	0	0	0	2027
4	0	0	0	0	0	0	2	36	92	161	211	177	162	122	82	51	17	1	0	0	0	0	0	0	1113
5	0	0	0	0	0	0	1	6	53	48	59	61	102	96	64	33	20	2	0	0	0	0	0	0	545
6	0	0	0	0	0	0	5	130	328	518	653	741	746	617	436	334	138	8	0	0	0	0	0	0	4654
7	0	0	0	0	0	0	4	113	322	509	643	721	695	489	300	315	138	11	0	0	0	0	0	0	4259
8	0	0	0	0	0	0	5	133	338	488	634	712	699	620	515	336	137	8	0	0	0	0	0	0	4623
9	0	0	0	0	0	0	4	113	181	451	621	705	707	648	515	320	127	10	0	0	0	0	0	0	4402
10	0	0	0	0	0	0	2	86	185	372	560	605	497	576	381	183	139	9	0	0	0	0	0	0	3595
11	0	0	0	0	0	0	3	129	181	322	624	590	620	516	388	307	154	11	0	0	0	0	0	0	3846
12	0	0	0	0	0	0	3	54	180	370	411	453	482	573	472	295	96	5	0	0	0	0	0	0	3395
13	0	0	0	0	0	0	2	52	232	366	499	658	548	539	417	229	111	5	0	0	0	0	0	0	3658
14	0	0	0	0	0	0	2	86	183	306	412	611	704	614	470	242	126	5	0	0	0	0	0	0	3760
15	0	0	0	0	0	0	2	96	293	462	600	702	693	579	483	304	123	5	0	0	0	0	0	0	4343
16	0	0	0	0	0	0	2	77	238	369	435	590	333	398	242	268	70	3	0	0	0	0	0	0	3025
17	0	0	0	0	0	0	1	91	270	440	543	663	652	524	398	313	123	8	0	0	0	0	0	0	4026
18	0	0	0	0	0	0	1	86	231	303	338	298	600	546	297	192	70	3	0	0	0	0	0	0	2965
19	0	0	0	0	0	0	1	82	265	314	516	398	608	493	423	279	56	5	0	0	0	0	0	0	3440
20	0	0	0	0	0	0	1	41	120	286	560	645	658	569	411	206	95	4	0	0	0	0	0	0	3597
21	0	0	0	0	0	0	1	57	120	204	299	318	296	331	229	161	62	3	0	0	0	0	0	0	2081
22	0	0	0	0	0	0	0	17	44	68	84	45	38	45	78	97	46	6	0	0	0	0	0	0	569
23	0	0	0	0	0	0	0	44	223	172	257	349	376	342	229	128	41	1	0	0	0	0	0	0	2163
24	0	0	0	0	0	0	0	22	106	148	411	394	621	593	450	284	100	4	0	0	0	0	0	0	3133
25	0	0	0	0	0	0	0	77	206	452	582	627	665	597	480	305	73	3	0	0	0	0	0	0	4069
26	0	0	0	0	0	0	0	22	220	389	552	570	450	583	461	285	103	4	0	0	0	0	0	0	3638
27	0	0	0	0	0	0	0	64	200	416	578	660	670	605	476	299	108	2	0	0	0	0	0	0	4079
28	0	0	0	0	0	0	0	73	255	437	567	646	661	585	470	298	111	3	0	0	0	0	0	0	4105
29	0	0	0	0	0	0	0	69	204	397	563	651	662	593	469	291	106	4	0	0	0	0	0	0	4009
30	0	0	0	0	0	0	0	34	127	286	492	175	472	560	460	280	102	3	0	0	0	0	0	0	2991
Avg	0	0	0	0	0	0	2	72	205	346	465	505	540	494	376	245	97	6	0	0	0	0	0	0	3354
S D	0	0	0	0	0	0	2	35	80	127	164	206	190	164	134	86	37	4	0	0	0	0	0	0	1112
S/A	0	0	0	0	0	0	0.91	0.48	0.39	0.37	0.35	0.41	0.35	0.33	0.36	0.35	0.38	0.71	0	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	0	6	44	48	59	45	38	45	64	33	17	1	0	0	0	0	0	0	545
Max	0	0	0	0	0	0	7	133	338	518	653	741	746	650	515	336	154	21	0	0	0	0	0	0	4654

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3862 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: 8.33 uV/Wm-2
Serial Number: 17800F3
Calibration Date: 9/13/96

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - November 1998**

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	46	16	19	35	33	34	37	35	40	51	48	40	0	0	0	0	0	0	432
2	0	0	0	0	0	0	13	22	23	42	41	28	36	40	44	43	51	10	0	0	0	0	0	0	393
3	0	0	0	0	0	0	2	6	7	58	16	8	29	10	7	6	7	7	0	0	0	0	0	0	164
4	0	0	0	0	0	0	2	5	6	8	9	7	9	6	5	6	5	3	0	0	0	0	0	0	71
5	0	0	0	0	0	0	1	2	3	3	3	3	3	4	4	4	4	3	0	0	0	0	0	0	37
6	0	0	0	0	0	0	2	33	35	33	27	30	33	40	57	45	49	24	0	0	0	0	0	0	409
7	0	0	0	0	0	0	6	16	26	31	24	27	39	56	41	65	57	31	0	0	0	0	0	0	418
8	0	0	0	0	0	0	6	44	94	37	28	27	31	35	41	38	43	40	0	0	0	0	0	0	465
9	0	0	0	0	0	0	9	1	20	38	26	24	33	35	38	38	37	13	0	0	0	0	0	0	313
10	0	0	0	0	0	0	5	39	39	55	38	38	47	43	38	33	54	13	0	0	0	0	0	0	443
11	0	0	0	0	0	0	12	47	34	51	50	41	47	46	55	65	58	21	0	0	0	0	0	0	526
12	0	0	0	0	0	0	21	9	35	56	48	32	48	47	49	48	34	14	0	0	0	0	0	0	440
13	0	0	0	0	0	0	19	5	48	53	54	48	46	53	54	51	41	19	0	0	0	0	0	0	490
14	0	0	0	0	0	0	5	45	23	36	46	33	37	39	48	45	40	24	0	0	0	0	0	0	420
15	0	0	0	0	0	0	7	7	24	33	28	31	57	51	57	56	34	14	0	0	0	0	0	0	400
16	0	0	0	0	0	0	12	32	35	43	54	39	23	40	11	48	19	18	0	0	0	0	0	0	375
17	0	0	0	0	0	0	13	10	16	35	56	27	37	39	47	30	52	32	0	0	0	0	0	0	393
18	0	0	0	0	0	0	6	36	11	32	34	23	37	41	35	28	18	37	0	0	0	0	0	0	336
19	0	0	0	0	0	0	2	10	9	36	47	25	37	41	47	23	18	1005	0	0	0	0	0	0	1300
20	0	0	0	0	0	0	3	12	11	22	21	26	42	45	44	29	32	15	0	0	0	0	0	0	303
21	0	0	0	0	0	0	4	18	15	19	23	17	19	33	24	23	9	4	0	0	0	0	0	0	209
22	0	0	0	0	0	0	1	8	6	5	5	3	3	4	7	16	14	6	0	0	0	0	0	0	78
23	0	0	0	0	0	0	2	26	35	16	17	33	12	21	21	12	11	3	0	0	0	0	0	0	211
24	0	0	0	0	0	0	0	7	19	43	44	32	60	48	44	45	33	16	0	0	0	0	0	0	391
25	0	0	0	0	0	0	2	30	0	47	33	43	47	39	53	38	23	13	0	0	0	0	0	0	366
26	0	0	0	0	0	0	0	11	27	20	37	45	43	44	54	41	37	22	0	0	0	0	0	0	380
27	0	0	0	0	0	0	0	9	9	147	47	34	42	41	50	43	38	28	0	0	0	0	0	0	488
28	0	0	0	0	0	0	0	20	23	28	29	33	44	42	47	39	37	20	0	0	0	0	0	0	361
29	0	0	0	0	0	0	0	40	48	67	33	37	44	37	42	30	20	19	0	0	0	0	0	0	417
30	0	0	0	0	0	0	0	12	19	32	46	14	37	40	42	34	42	22	0	0	0	0	0	0	340
Avg	0	0	0	0	0	0	7	19	24	39	33	28	35	36	38	36	32	51	0	0	0	0	0	0	379
S D	0	0	0	0	0	0	9	14	18	25	14	12	14	14	16	16	16	177	0	0	0	0	0	0	211
S/A	0	0	0	0	0	0	1.39	0.73	0.76	0.65	0.43	0.41	0.4	0.37	0.42	0.44	0.5	3.47	0	0	0	0	0	0	0.56
Min	0	0	0	0	0	0	0	1	0	3	3	3	3	4	4	4	4	3	0	0	0	0	0	0	37
Max	0	0	0	0	0	0	46	47	94	147	56	48	60	56	57	65	58	1005	0	0	0	0	0	0	1300

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 102771 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
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - November 1998

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	7	116	300	473	557 ?	604 ?	626 ?	608 ?	470	312	119	19	0	0	0	0	0	0	4210 ?
2	0	0	0	0	0	0	4	104	307	452	376	282 ?	?	480 ?	444	257	125	10	0	0	0	0	0	0	2841
3	0	0	0	0	0	0	2	52	126	338	214	230	381	242	191	106	58	3	0	0	0	0	0	0	1942
4	0	0	0	0	0	0	2	35	89	156	205	172	155	118	80	48	16	1	0	0	0	0	0	0	1078
5	0	0	0	0	0	0	1	6	52	47	58	60	99	93	61	31	19	2	0	0	0	0	0	0	528
6	0	0	0	0	0	0	5	123	331 ?	?	?	?	?	478 ?	374	315	127	7	0	0	0	0	0	0	1760 ?
7	0	0	0	0	0	0	4	110	327 ?	413 ?	?	?	559 ?	438	278	253 ?	126	10	0	0	0	0	0	0	2517 ?
8	0	0	0	0	0	0	5	93 ?	330 ?	440 ?	?	?	384 ?	535 ?	473 ?	320	127	7	0	0	0	0	0	0	2715 ?
9	0	0	0	0	0	0	4	116	174	278 ?	?	?	555 ?	?	469 ?	305	120	9	0	0	0	0	0	0	2030 ?
10	0	0	0	0	0	0	2	70	149	327	412 ?	527 ?	447	504 ?	360	170	128	8	0	0	0	0	0	0	3104
11	0	0	0	0	0	0	3	69 ?	170	297	454 ?	471 ?	450 ?	426 ?	341	266 ?	141	10	0	0	0	0	0	0	3099 ?
12	0	0	0	0	0	0	3	52	168	280 ?	368	377	426	510 ?	446	277	88	5	0	0	0	0	0	0	2999
13	0	0	0	0	0	0	2	51	199	340	467	469 ?	444 ?	453 ?	375	210	102	4	0	0	0	0	0	0	3116
14	0	0	0	0	0	0	2	80	174	288	385	542 ?	?	497 ?	334 ?	184 ?	106	4	0	0	0	0	0	0	2596 ?
15	0	0	0	0	0	0	2	98	301 ?	414 ?	?	?	562 ?	447 ?	321 ?	237 ?	102	5	0	0	0	0	0	0	2490 ?
16	0	0	0	0	0	0	2	73	211	332	403	449 ?	285	349	237	242	66	2	0	0	0	0	0	0	2652
17	0	0	0	0	0	0	1	89	241 ?	397 ?	442 ?	?	444 ?	401 ?	265 ?	297	113	8	0	0	0	0	0	0	2698 ?
18	0	0	0	0	0	0	1	76	266 ?	248	255	283	377 ?	505	263	182	66	3	0	0	0	0	0	0	2524
19	0	0	0	0	0	0	1	83	249 ?	277	357 ?	220 ?	442 ?	441	399	270	53	5	0	0	0	0	0	0	2797
20	0	0	0	0	0	0	1	40	116	236	509 ?	?	?	511 ?	389	195	88	3	0	0	0	0	0	0	2088 ?
21	0	0	0	0	0	0	0	55	115	195	286	307	283	311	217	152	60	3	0	0	0	0	0	0	1985
22	0	0	0	0	0	0	0	16	42	66	81	43	36	43	75	92	43	6	0	0	0	0	0	0	542
23	0	0	0	0	0	0	0	41	198 ?	164	222	302	368	330	218	124	39	1	0	0	0	0	0	0	2008
24	0	0	0	0	0	0	0	22	100	144	368	374	477 ?	526 ?	428	266	93	3	0	0	0	0	0	0	2801
25	0	0	0	0	0	0	0	75	174 ?	363 ?	?	496 ?	?	?	442	284	69	2	0	0	0	0	0	0	1906 ?
26	0	0	0	0	0	0	0	21	166 ?	380	496 ?	419 ?	385	530 ?	434	271	95	3	0	0	0	0	0	0	3201
27	0	0	0	0	0	0	0	29 ?	219 ?	339	?	?	?	?	433 ?	270 ?	101	2	0	0	0	0	0	0	1392 ?
28	0	0	0	0	0	0	0	71	193 ?	?	?	?	?	?	426 ?	430 ?	269 ?	103	3	0	0	0	0	0	1496 ?
29	0	0	0	0	0	0	0	60	215 ?	280 ?	472 ?	578 ?	?	?	431 ?	267 ?	102	4	0	0	0	0	0	0	2409 ?
30	0	0	0	0	0	0	0	33	107	231	410 ?	166	399	497 ?	439	268	94	2	0	0	0	0	0	0	2647
Avg	0	0	0	0	0	0	2	65	194	293	354	351	390	411	337	225	90	5	0	0	0	0	0	0	2339
S D	0	0	0	0	0	0	2	32	81	109	131	160	144	141	121	78	33	4	0	0	0	0	0	0	786
S/A	0	0	0	0	0	0	0.97	0.49	0.42	0.37	0.37	0.46	0.37	0.34	0.36	0.35	0.37	0.72	0	0	0	0	0	0	0.34
Min	0	0	0	0	0	0	0	6	42	47	58	43	36	43	61	31	16	1	0	0	0	0	0	0	528
Max	0	0	0	0	0	0	7	123	331	473	557	604	626	608	473	320	141	19	0	0	0	0	0	0	4210

Daylight Data Recovery: 0% missing; 25% exceed the 15% QC threshold -- 3862 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: 8.08 uV/Wm-2
Serial Number: 17879F3
Calibration Date: 9/13/96