

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - February 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	38	216	359	476	692	739	697	591	432	246	45	0	0	0	0	0	0	4532
2	0	0	0	0	0	0	0	13	202	233	454	697	740	705	602	437	236	47	0	0	0	0	0	0	4367
3	0	0	0	0	0	0	0	13	82	219	150	150	89	179	170	161	100	14	0	0	0	0	0	0	1326
4	0	0	0	0	0	0	0	33	223	429	593	707	750	711	607	442	239	52	0	0	0	0	0	0	4785
5	0	0	0	0	0	0	0	46	234	445	619	736	725	748	642	471	255	61	0	0	0	0	0	0	4980
6	0	0	0	0	0	0	0	49	240	451	621	737	776	721	594	358	144	55	0	0	0	0	0	0	4748
7	0	0	0	0	0	0	0	52	167	350	537	517	632	564	544	429	230	50	0	0	0	0	0	0	4072
8	0	0	0	0	0	0	0	20	105	433	557	591	512	554	486	457	247	64	0	0	0	0	0	0	4025
9	0	0	0	0	0	0	0	33	92	143	363	707	754	598	561	414	239	59	0	0	0	0	0	0	3964
10	0	0	0	0	0	0	0	48	232	429	604	720	752	722	616	435	208	48	0	0	0	0	0	0	4815
11	0	0	0	0	0	0	0	54	238	427	600	713	702	478	412	360	256	70	0	0	0	0	0	0	4309
12	0	0	0	0	0	0	0	50	203	468	527	487	398	511	383	175	167	59	0	0	0	0	0	0	3427
13	0	0	0	0	0	0	0	45	196	455 ?	586	649	467	410	400	348	164	58	0	0	0	0	0	0	3779
14	0	0	0	0	0	0	0	40	34	41	224	249	140	78 ?	54 ?	55	23	11	2	0	0	0	0	0	950
15	0	0	0	0	0	0	0	43	252	479	654	775	813	776	670	498	283	78	0	0	0	0	0	0	5321
16	0	0	0	0	0	0	0	52	224	534 ?	630	754	790	721	570	384	252	78	0	0	0	0	0	0	4990
17	0	0	0	0	0	0	0	67	252	437	603	729	776	746	646	481	277	80	0	0	0	0	0	0	5094
18	0	0	0	0	0	0	0	96	153	435	632	690	601	549	377	378	251	71	1	0	0	0	0	0	4234
19	0	0	0	0	0	0	0	47	116	342	620	741	472	708	603	397	215	62	0	0	0	0	0	0	4324
20	0	0	0	0	0	0	0	29	116	179	294	710	814	805	656	500	285	104	1	0	0	0	0	0	4493
21	0	0	0	0	0	0	0	77	288	503	673	797	838	802	691	512	296	98	2	0	0	0	0	0	5579
22	0	0	0	0	0	0	0	39	171	210	204	231	648	234	188	125	59	23	0	0	0	0	0	0	2132
23	0	0	0	0	0	0	0	51	222	434	657	609	808	589	499	359	194	127	1	0	0	0	0	0	4551
24	0	0	0	0	0	0	0	80	255	451	584	576	388	616	677	453	300	61	2	0	0	0	0	0	4444
25	0	0	0	0	0	0	1	102	313	521	616	705	848	804	701	528	320	114	2	0	0	0	0	0	5574
26	0	0	0	0	0	0	1	61	134	268	625	819	862	816	705	529	314	100	2	0	0	0	0	0	5237
27	0	0	0	0	0	0	1	92	314	513	708	695	486	497	640	363	301	77	1	0	0	0	0	0	4689
28	0	0	0	0	0	0	1	84	268	498	717	851	873	840	727	548	330	109	2	0	0	0	0	0	5847
29	0	0	0	0	0	0	2	81	288	426	720	849	853	820	706	530	316	102	2	0	0	0	0	0	5695
Avg	0	0	0	0	0	0	0	53	201	383	547	651	657	621	542	399	233	68	1	0	0	0	0	0	4355
S D	0	0	0	0	0	0	0	23	71	125	152	172	205	194	169	123	75	28	1	0	0	0	0	0	1146
S/A	0	0	0	0	0	0	1.96	0.44	0.35	0.33	0.28	0.26	0.31	0.31	0.31	0.31	0.32	0.41	1.2	0	0	0	0	0	0.26
Min	0	0	0	0	0	0	0	13	34	41	150	150	89	78	54	55	23	11	0	0	0	0	0	0	950
Max	0	0	0	0	0	0	2	102	314	534	720	851	873	840	727	548	330	127	2	0	0	0	0	0	5847

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 3885 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 - February 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	25	37	33	36	30	37	34	38	33	36	33	0	0	0	0	0	0	372
2	0	0	0	0	0	0	0	7	39	30	37	29	35	32	36	30	22	26	0	0	0	0	0	0	323
3	0	0	0	0	0	0	0	8	7	28	8	8	5	8	9	11	11	13	0	0	0	0	0	0	115
4	0	0	0	0	0	0	0	24	30	29	25	28	30	31	34	28	18	20	0	0	0	0	0	0	298
5	0	0	0	0	0	0	0	90	30	29	24	29	31	30	33	28	16	14	12	0	0	0	0	0	366
6	0	0	0	0	0	0	0	30	29	29	23	27	26	32	35	29	19	17	9	0	0	0	0	0	305
7	0	0	0	0	0	0	0	35	2	26	22	43	42	40	43	32	28	29	8	0	0	0	0	0	349
8	0	0	0	0	0	0	0	10	30	21	36	56	50	32	58	36	23	31	7	0	0	0	0	0	390
9	0	0	0	0	0	0	0	30	19	6	34	35	28	41	39	36	22	22	3	0	0	0	0	0	315
10	0	0	0	0	0	0	0	27	33	30	25	32	27	34	38	35	25	25	4	0	0	0	0	0	336
11	0	0	0	0	0	0	0	25	32	30	25	33	38	45	46	48	45	21	14	0	0	0	0	0	402
12	0	0	0	0	0	0	0	1750	66	54	37	58	27	61	48	10	23	39	23	0	0	0	0	0	2196
13	0	0	0	0	0	0	0	6	62	194	27	44	47	47	47	59	34	20	8	0	0	0	0	0	594
14	0	0	0	0	0	0	0	80	3	2	18	10	5	2	2	3	2	4	2	0	0	0	0	0	133
15	0	0	0	0	0	0	0	13	49	38	20	29	28	35	34	30	16	18	8	0	0	0	0	0	317
16	0	0	0	0	0	0	0	47	21	265	23	30	27	35	51	60	25	22	6	0	0	0	0	0	611
17	0	0	0	0	0	0	0	35	20	43	26	33	29	35	34	30	18	19	16	0	0	0	0	0	337
18	0	0	0	0	0	0	0	43	45	44	28	45	54	46	42	42	27	28	11	0	0	0	0	0	455
19	0	0	0	0	0	0	0	50	10	42	20	44	41	57	42	38	36	24	7	0	0	0	0	0	411
20	0	0	0	0	0	0	0	19	12	4	16	41	38	56	68	67	58	25	8	0	0	0	0	0	412
21	0	0	0	0	0	0	0	21	22	39	20	31	31	37	39	32	20	34	3	0	0	0	0	0	330
22	0	0	0	0	0	0	0	34	41	31	18	26	47	22	22	16	9	6	5	0	0	0	0	0	277
23	0	0	0	0	0	0	3	37	45	50	36	45	46	68	70	45	59	82	144	0	0	0	0	0	729
24	0	0	0	0	0	0	0	34	43	75	62	58	19	51	39	46	24	16	26	0	0	0	0	0	495
25	0	0	0	0	0	0	22	47	32	53	42	64	27	29	33	26	18	40	5	0	0	0	0	0	439
26	0	0	0	0	0	0	6	37	50	64	60	25	28	24	31	26	13	18	8	0	0	0	0	0	389
27	0	0	0	0	0	0	7	32	32	47	25	39	36	32	34	37	29	11	7	0	0	0	0	0	368
28	0	0	0	0	0	0	5	4	60	41	79	32	25	25	28	24	21	21	8	0	0	0	0	0	372
29	0	0	0	0	0	0	54	14	48	64	33	34	36	28	30	29	27	25	8	0	0	0	0	0	432
Avg	0	0	0	0	0	0	3	90	33	50	30	36	32	36	38	33	25	24	12	0	0	0	0	0	444
S D	0	0	0	0	0	0	11	314	17	52	15	13	11	14	14	14	13	14	26	0	0	0	0	0	352
S/A	0	0	0	0	0	0	3.15	3.49	0.51	1.05	0.48	0.36	0.35	0.39	0.36	0.42	0.5	0.57	2.06	0	0	0	0	0	0.79
Min	0	0	0	0	0	0	0	4	2	2	8	8	5	2	2	3	2	4	0	0	0	0	0	0	115
Max	0	0	0	0	0	0	54	1750	66	265	79	64	54	68	70	67	59	82	144	0	0	0	0	0	2196

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3885 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 - February 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	39	190 ?	305 ?	258 ?	?	?	?	?	369 ?	188 ?	42	0	0	0	0	0	0	1392 ?
2	0	0	0	0	0	0	0	13	69 ?	213	337 ?	?	?	?	?	?	212	44	0	0	0	0	0	0	887 ?
3	0	0	0	0	0	0	0	13	80	208	145	145	85	173	164	156	97	13	0	0	0	0	0	0	1279 ?
4	0	0	0	0	0	0	0	31	163 ?	?	?	?	?	?	?	354 ?	215	50	0	0	0	0	0	0	813 ?
5	0	0	0	0	0	0	0	44	154 ?	?	?	?	516 ?	?	?	?	204 ?	59	0	0	0	0	0	0	978 ?
6	0	0	0	0	0	0	0	48	152 ?	?	?	?	?	?	470 ?	332	138	53	0	0	0	0	0	0	1193 ?
7	0	0	0	0	0	0	0	49	180	390 ?	456 ?	379 ?	417 ?	395 ?	468 ?	337 ?	221	47	0	0	0	0	0	0	3338 ?
8	0	0	0	0	0	0	0	21	96	363 ?	466 ?	477 ?	460	371 ?	371 ?	360 ?	240	60	0	0	0	0	0	0	3285 ?
9	0	0	0	0	0	0	0	31	88	140	315	?	?	486 ?	361 ?	321 ?	232	56	0	0	0	0	0	0	2031 ?
10	0	0	0	0	0	0	0	50	189 ?	?	?	?	?	?	?	397 ?	200	45	0	0	0	0	0	0	880 ?
11	0	0	0	0	0	0	0	56	186 ?	?	?	?	548 ?	389 ?	318 ?	292 ?	229 ?	66	0	0	0	0	0	0	2085 ?
12	0	0	0	0	0	0	0	46	170 ?	232 ?	454 ?	391 ?	348	407 ?	353	170	161	54	0	0	0	0	0	0	2787 ?
13	0	0	0	0	0	0	0	48	179	391 ?	?	506 ?	379	377	351	299	154	55	0	0	0	0	0	0	2739 ?
14	0	0	0	0	0	0	0	41 ?	33	40	213	242	136	76 ?	52 ?	53	22	10	2	0	0	0	0	0	922
15	0	0	0	0	0	0	0	49	182 ?	?	?	?	?	?	?	?	230 ?	75	0	0	0	0	0	0	537 ?
16	0	0	0	0	0	0	0	52	193 ?	?	?	?	?	?	424 ?	325	236	75	0	0	0	0	0	0	1306 ?
17	0	0	0	0	0	0	0	68	173 ?	380 ?	?	?	?	?	?	381 ?	265	77	0	0	0	0	0	0	1343 ?
18	0	0	0	0	0	0	0	37 ?	121	207 ?	510 ?	581 ?	511 ?	379 ?	326	289 ?	241	66	1	0	0	0	0	0	3271 ?
19	0	0	0	0	0	0	0	44	113	294	?	432 ?	365	450	427 ?	267 ?	203	58	0	0	0	0	0	0	2653 ?
20	0	0	0	0	0	0	0	28	112	177	284	499 ?	?	?	417 ?	329 ?	228 ?	79	1	0	0	0	0	0	2154 ?
21	0	0	0	0	0	0	0	75	187 ?	?	?	?	?	?	?	?	256 ?	94	2	0	0	0	0	0	614 ?
22	0	0	0	0	0	0	0	35	158	194	193	212	296 ?	217	174	115	55	22	0	0	0	0	0	0	1672
23	0	0	0	0	0	0	0	48	188	302 ?	?	408 ?	604 ?	433 ?	426	247 ?	172	102 ?	1	0	0	0	0	0	2931 ?
24	0	0	0	0	0	0	0	44 ?	185 ?	334 ?	447 ?	454 ?	374	464 ?	539 ?	356 ?	273	58	1	0	0	0	0	0	3531 ?
25	0	0	0	0	0	0	1	88	?	?	482 ?	505 ?	?	?	?	?	219 ?	108	2	0	0	0	0	0	1404 ?
26	0	0	0	0	0	0	1	57	117	234	400 ?	?	?	?	?	?	251 ?	98	2	0	0	0	0	0	1160 ?
27	0	0	0	0	0	0	1	88	197 ?	?	?	493 ?	315 ?	369 ?	306 ?	251 ?	244 ?	75	1	0	0	0	0	0	2341 ?
28	0	0	0	0	0	0	1	94 ?	234 ?	380 ?	510 ?	?	?	?	?	?	246 ?	105	2	0	0	0	0	0	1571 ?
29	0	0	0	0	0	0	1	82	238 ?	334 ?	?	?	583 ?	?	?	?	305	97	2	0	0	0	0	0	1643 ?
Avg	0	0	0	0	0	0	0	49	155	269	365	409	396	356	350	286	205	64	1	0	0	0	0	0	1819
S D	0	0	0	0	0	0	0	21	49	95	119	122	146	114	120	90	62	25	1	0	0	0	0	0	894
S/A	0	0	0	0	0	0	2.14	0.42	0.32	0.35	0.33	0.3	0.37	0.32	0.34	0.31	0.3	0.4	1.27	0	0	0	0	0	0.49
Min	0	0	0	0	0	0	0	13	33	40	145	145	85	76	52	53	22	10	0	0	0	0	0	0	537
Max	0	0	0	0	0	0	1	94	238	391	510	581	604	486	539	397	305	108	2	0	0	0	0	0	3531

Daylight Data Recovery: 0% missing; 46% exceed the 15% QC threshold -- 3885 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