

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - January 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	24	173	345	494	584	629	518	303	270	119	9	0	0	0	0	0	0	3468
2	0	0	0	0	0	0	0	32	197	338	489	588	627	586	475	318	132	8	0	0	0	0	0	0	3791
3	0	0	0	0	0	0	0	30	151	366	498	606	639	590	477	324	136	12	0	0	0	0	0	0	3828
4	0	0	0	0	0	0	0	22	166	348	505	531	540	428	436	254	101	9	0	0	0	0	0	0	3339
5	0	0	0	0	0	0	0	29	189	374	510	591	647	585	477	263	125	13	0	0	0	0	0	0	3803
6	0	0	0	0	0	0	0	14	118	268	439	467	429	534	279	187	70	7	0	0	0	0	0	0	2812
7	0	0	0	0	0	0	0	18	44	90	119	393	306	123	83	117	41	8	0	0	0	0	0	0	1341
8	0	0	0	0	0	0	0	27	151	323	498	602	638	597	491	327	136	13	0	0	0	0	0	0	3801
9	0	0	0	0	0	0	0	16	119	325	501	576	631	496	366	280	141	11	0	0	0	0	0	0	3462
10	0	0	0	0	0	0	0	29	160	133	395	529	650	536	305	149	110	19	0	0	0	0	0	0	3013
11	0	0	0	0	0	0	0	33	192	370	538	635	675	628	516	358	157	15	0	0	0	0	0	0	4116
12	0	0	0	0	0	0	0	35	165	388	557	629	668	624	511	350	154	17	0	0	0	0	0	0	4097
13	0	0	0	0	0	0	0	34	161	444 ?	523	637	655	615	497	359	162	17	0	0	0	0	0	0	4104
14	0	0	0	0	0	0	0	27	176	374	396	550	404	474	378	358	192	29	0	0	0	0	0	0	3358
15	0	0	0	0	0	0	0	24	174	273	479	622	659	629	400	344	141	15	0	0	0	0	0	0	3758
16	0	0	0	0	0	0	0	36	195	384	540	637	688	644	532	373	172	23	0	0	0	0	0	0	4224
17	0	0	0	0	0	0	0	24	135	194	291	326	442	297	152	82	38	9	0	0	0	0	0	0	1989
18	0	0	0	0	0	0	0	18	94	241	465	620	582	527	433	334	176	24	0	0	0	0	0	0	3514
19	0	0	0	0	0	0	0	3	93	155	354	604	348	325	274	109	55	11	0	0	0	0	0	0	2331
20	0	0	0	0	0	0	0	19	157	276	192	333	587	682	535	383	194	29	0	0	0	0	0	0	3387
21	0	0	0	0	0	0	0	33	205	408	571	676	717	674	565	398	195	30	0	0	0	0	0	0	4471
22	0	0	0	0	0	0	0	39	169	388	557	665	704	659	557	351	160	31	0	0	0	0	0	0	4280
23	0	0	0	0	0	0	0	21	133	388	542	542	605	512	469	322	143	20	0	0	0	0	0	0	3697
24	0	0	0	0	0	0	0	12	79	238	349	94	102	229	266	66	43	2	0	0	0	0	0	0	1479
25	0	0	0	0	0	0	0	31	195	417	558	613	561	377	341	279	175	41	0	0	0	0	0	0	3587
26	0	0	0	0	0	0	0	36	216	428	598	706	752	710	599	429	220	38	0	0	0	0	0	0	4731
27	0	0	0	0	0	0	0	27	162	378	540	685	734	700	571	355	125	22	0	0	0	0	0	0	4299
28	0	0	0	0	0	0	0	12	50	16 ?	57 ?	92	70	39	73	38	11	2	0	0	0	0	0	0	460
29	0	0	0	0	0	0	0	26	200	350	483	628	705	669	503	325	184	46	0	0	0	0	0	0	4118
30	0	0	0	0	0	0	0	16	92	232	495	658	703	641	578	245	152	28	0	0	0	0	0	0	3839
31	0	0	0	0	0	0	0	14	42	34	58	40	51	91	179	94	57	28	0	0	0	0	0	0	689
Avg	0	0	0	0	0	0	0	25	147	300	438	531	553	508	407	272	130	19	0	0	0	0	0	0	3329
S D	0	0	0	0	0	0	0	9	48	113	146	174	191	182	145	109	53	11	0	0	0	0	0	0	1073
S/A	0	0	0	0	0	0	0	0.35	0.33	0.38	0.33	0.33	0.35	0.36	0.36	0.4	0.41	0.59	0	0	0	0	0	0	0.32
Min	0	0	0	0	0	0	0	3	42	16	57	40	51	39	73	38	11	2	0	0	0	0	0	0	460
Max	0	0	0	0	0	0	0	39	216	444	598	706	752	710	599	429	220	46	0	0	0	0	0	0	4731

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3905 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 - January 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	23	44	37	49	39	38	37	32	46	32	20	0	0	0	0	0	0	397
2	0	0	0	0	0	0	0	38	74	27	42	32	43	43	39	41	39	17	0	0	0	0	0	0	434
3	0	0	0	0	0	0	0	21	119	141	38	38	43	39	39	30	32	14	0	0	0	0	0	0	555
4	0	0	0	0	0	0	0	26	20	24	39	40	43	40	39	28	28	14	0	0	0	0	0	0	341
5	0	0	0	0	0	0	0	27	46	37	46	44	49	42	44	44	33	87	0	0	0	0	0	0	498
6	0	0	0	0	0	0	0	32	28	36	49	49	29	47	29	17	15	22	0	0	0	0	0	0	352
7	0	0	0	0	0	0	0	11	9	11	14	24	11	13	9	15	10	9	0	0	0	0	0	0	136
8	0	0	0	0	0	0	0	21	13	5	34	36	42	44	47	37	38	32	0	0	0	0	0	0	349
9	0	0	0	0	0	0	0	13	12	16	43	31	41	44	45	35	36	26	0	0	0	0	0	0	341
10	0	0	0	0	0	0	0	26	51	17	34	36	42	51	30	22	23	17	0	0	0	0	0	0	349
11	0	0	0	0	0	0	0	30	36	21	43	33	46	47	37	35	30	20	0	0	0	0	0	0	378
12	0	0	0	0	0	0	0	30	24	67	86	24	38	49	40	35	33	70	0	0	0	0	0	0	495
13	0	0	0	0	0	0	0	35	38	225	28	28	43	45	47	47	27	32	0	0	0	0	0	0	596
14	0	0	0	0	0	0	0	27	48	41	37	51	37	49	41	57	34	26	0	0	0	0	0	0	448
15	0	0	0	0	0	0	0	17	42	36	52	39	47	46	37	38	30	12	0	0	0	0	0	0	396
16	0	0	0	0	0	0	0	35	35	31	40	28	44	45	48	36	21	24	0	0	0	0	0	0	388
17	0	0	0	0	0	0	0	14	25	18	18	19	27	25	13	10	8	7	0	0	0	0	0	0	184
18	0	0	0	0	0	0	0	10	10	26	37	29	55	49	48	44	29	53	0	0	0	0	0	0	390
19	0	0	0	0	0	0	0	4	13	16	49	59	26	20	22	14	12	14	0	0	0	0	0	0	250
20	0	0	0	0	0	0	0	17	48	45	25	30	52	57	44	28	24	26	0	0	0	0	0	0	396
21	0	0	0	0	0	0	0	22	28	29	34	27	38	38	38	29	27	21	0	0	0	0	0	0	332
22	0	0	0	0	0	0	0	46	23	28	34	28	38	40	40	46	32	20	0	0	0	0	0	0	374
23	0	0	0	0	0	0	0	29	28	32	45	62	52	65	57	53	30	15	0	0	0	0	0	0	469
24	0	0	0	0	0	0	0	5	16	31	38	7	6	10	34	6	6	1	0	0	0	0	0	0	159
25	0	0	0	0	0	0	0	35	54	36	36	36	58	41	42	40	21	17	0	0	0	0	0	0	416
26	0	0	0	0	0	0	0	83	38	31	31	28	37	36	37	27	23	22	0	0	0	0	0	0	393
27	0	0	0	0	0	0	0	43	48	41	31	29	36	36	50	46	23	13	0	0	0	0	0	0	396
28	0	0	0	0	0	0	0	8	6	1	2	5	4	2	5	3	1	1	0	0	0	0	0	0	38
29	0	0	0	0	0	0	0	16	49	32	53	51	44	43	47	41	40	37	0	0	0	0	0	0	452
30	0	0	0	0	0	0	0	10	10	20	39	32	44	39	54	37	33	32	0	0	0	0	0	0	352
31	0	0	0	0	0	0	0	10	8	4	5	3	3	5	9	8	7	8	0	0	0	0	0	0	68
Avg	0	0	0	0	0	0	0	25	34	38	37	33	37	38	37	32	25	24	0	0	0	0	0	0	359
S/D	0	0	0	0	0	0	0	15	23	42	15	13	14	14	13	14	10	18	0	0	0	0	0	0	127
S/A	0	0	0	0	0	0	0	0.62	0.68	1.12	0.41	0.41	0.37	0.37	0.35	0.44	0.41	0.76	0	0	0	0	0	0	0.35
Min	0	0	0	0	0	0	0	4	6	1	2	3	3	2	5	3	1	1	0	0	0	0	0	0	38
Max	0	0	0	0	0	0	0	83	119	225	86	62	58	65	57	57	40	87	0	0	0	0	0	0	596

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3905 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 - January 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	24	165	331	434 ?	494 ?	?	270 ?	245	230	112	8	0	0	0	0	0	0	2314 ?
2	0	0	0	0	0	0	0	32	179	339 ?	429 ?	?	?	?	418 ?	303	123	8	0	0	0	0	0	0	1831 ?
3	0	0	0	0	0	0	0	31	126	310	413 ?	?	?	?	417 ?	306	130	11	0	0	0	0	0	0	1744 ?
4	0	0	0	0	0	0	0	23	140	329 ?	?	349 ?	399 ?	352 ?	399 ?	236	95	8	0	0	0	0	0	0	2331 ?
5	0	0	0	0	0	0	0	29	179	298 ?	441 ?	506 ?	465 ?	458 ?	414 ?	237	109	13	0	0	0	0	0	0	3148 ?
6	0	0	0	0	0	0	0	13	111	211 ?	397 ?	424	349 ?	439 ?	237	180	67	7	0	0	0	0	0	0	2434
7	0	0	0	0	0	0	0	17	42	86	112	348	299	115	78	111	39	8	0	0	0	0	0	0	1255
8	0	0	0	0	0	0	0	28	151	315	426 ?	?	?	?	428 ?	313	128	12	0	0	0	0	0	0	1801 ?
9	0	0	0	0	0	0	0	17	116	212 ?	441 ?	505 ?	569 ?	368 ?	322	260	133	9	0	0	0	0	0	0	2952 ?
10	0	0	0	0	0	0	0	30	149	126	322 ?	437 ?	?	436 ?	289	142	90	18	0	0	0	0	0	0	2037
11	0	0	0	0	0	0	0	34	132 ?	?	?	?	?	?	?	298 ?	14	0	0	0	0	0	0	0	628 ?
12	0	0	0	0	0	0	0	35	148	393 ?	425 ?	?	?	?	427 ?	335	146	16	0	0	0	0	0	0	1924 ?
13	0	0	0	0	0	0	0	33	136 ?	249 ?	?	?	?	480 ?	442 ?	317 ?	155	16	0	0	0	0	0	0	1828 ?
14	0	0	0	0	0	0	0	28	143	335 ?	311 ?	454 ?	361	397	299 ?	287 ?	156 ?	28	0	0	0	0	0	0	2798 ?
15	0	0	0	0	0	0	0	22	150	235	333 ?	434 ?	451 ?	521 ?	316 ?	222 ?	134	14	0	0	0	0	0	0	2833 ?
16	0	0	0	0	0	0	0	37	172	?	?	?	?	?	?	334 ?	166	21	0	0	0	0	0	0	730 ?
17	0	0	0	0	0	0	0	25	129	188	281	314	425	281	145	77	36	8	0	0	0	0	0	0	1911
18	0	0	0	0	0	0	0	19	92	230	364 ?	561 ?	443 ?	422 ?	388	280 ?	168	22	0	0	0	0	0	0	2989 ?
19	0	0	0	0	0	0	0	2	90	148	327	496 ?	308	313	263	103	52	10	0	0	0	0	0	0	2113
20	0	0	0	0	0	0	0	20	146	256	179	283	431 ?	482 ?	372 ?	355 ?	188	28	0	0	0	0	0	0	2739 ?
21	0	0	0	0	0	0	0	34	155 ?	?	?	?	?	?	?	306 ?	187	29	0	0	0	0	0	0	711 ?
22	0	0	0	0	0	0	0	41 ?	128 ?	280 ?	?	?	?	?	?	320	151	30	0	0	0	0	0	0	949 ?
23	0	0	0	0	0	0	0	19	127	267 ?	410 ?	464 ?	550 ?	458	421 ?	281	134	19	0	0	0	0	0	0	3148 ?
24	0	0	0	0	0	0	0	12	52	225	293	90	98	222	223	63	41	2	0	0	0	0	0	0	1321
25	0	0	0	0	0	0	0	31 ?	170 ?	277 ?	432 ?	518 ?	509	350	298	261	162	40	0	0	0	0	0	0	3048 ?
26	0	0	0	0	0	0	0	35	154 ?	?	?	?	?	?	?	?	204	36	0	0	0	0	0	0	429 ?
27	0	0	0	0	0	0	0	25	151	350 ?	419 ?	?	?	?	325 ?	311 ?	119	21	0	0	0	0	0	0	1720 ?
28	0	0	0	0	0	0	0	11	48	16 ?	55 ?	89	67	38	71	36	11	2	0	0	0	0	0	0	444
29	0	0	0	0	0	0	0	18	189	309 ?	389 ?	431 ?	612 ?	541 ?	348 ?	270	172	42	0	0	0	0	0	0	3322 ?
30	0	0	0	0	0	0	0	17	89	223	359 ?	?	?	586 ?	430 ?	228	142	26	0	0	0	0	0	0	2100 ?
31	0	0	0	0	0	0	0	14	40	33	55	38	49	88	174	91	55	27	0	0	0	0	0	0	664
Avg	0	0	0	0	0	0	0	24	129	243	335	381	376	363	315	236	121	18	0	0	0	0	0	0	1942
S D	0	0	0	0	0	0	0	9	40	94	117	151	164	146	108	91	50	11	0	0	0	0	0	0	876
S/A	0	0	0	0	0	0	0	0.37	0.31	0.38	0.35	0.4	0.44	0.4	0.34	0.38	0.41	0.59	0	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	2	40	16	55	38	49	38	71	36	11	2	0	0	0	0	0	0	429
Max	0	0	0	0	0	0	0	41	189	393	441	561	612	586	442	355	204	42	0	0	0	0	0	0	3322

Daylight Data Recovery: 0% missing; 35% exceed the 15% QC threshold -- 3905 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