

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - February 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	0	2	85	98	297	230	108	86	110	95	48	18	0	0	0	0	0	0	1178
2	0	0	0	0	0	0	0	5	29	52	72	134	157	103	91	86	59	13	0	0	0	0	0	0	801
3	0	0	0	0	0	0	0	5	45	47	126	140	96	155	145	54	26	7	0	0	0	0	0	0	846
4	0	0	0	0	0	0	0	3	39	70	81	124	90	93	135	125	56	20	0	0	0	0	0	0	835
5	0	0	0	0	0	0	0	10	48	257	542	701	705	666	602	459	252	65	0	0	0	0	0	0	4308
6	0	0	0	0	0	0	0	48	226	426	598	718	770	734	629	467	255	65	0	0	0	0	0	0	4936
7	0	0	0	0	0	0	0	42	193	400	588	703	753	725	626	462	256	67	0	0	0	0	0	0	4814
8	0	0	0	0	0	0	0	37	244	420	594	712	718	727	625	463	255	53	0	0	0	0	0	0	4848
9	0	0	0	0	0	0	0	47	226	411	577	716	757	717	628	477	260	69	0	0	0	0	0	0	4887
10	0	0	0	0	0	0	0	43	211	445	559	611	631	616	467	265	116	51	1	0	0	0	0	0	4015
11	0	0	0	0	0	0	0	24	117	297	355	337	528	499	495	384	184	43	1	0	0	0	0	0	3264
12	0	0	0	0	0	0	0	17	85	156	253	324	510	441	248	157	82	21	0	0	0	0	0	0	2293
13	0	0	0	0	0	0	0	14	82	145	228	277	312	311	276	212	113	27	0	0	0	0	0	0	1996
14	0	0	0	0	0	0	0	26	114	218	482	701	742	636	634	431	231	108	2	0	0	0	0	0	4324
15	0	0	0	0	0	0	0	28	135	327	426	698	680	791	426	314	224	74	2	0	0	0	0	0	4123
16	0	0	0	0	0	0	0	34	244	431	572	657	705	729	591	462	278	78	0	0	0	0	0	0	4782
17	0	0	0	0	0	0	0	65	219	349	244	310	205	65	101	111	171	61	2	0	0	0	0	0	1901
18	0	0	0	0	0	0	0	57	246	458	631	754	805	778	679	496	272	91	2	0	0	0	0	0	5267
19	0	0	0	0	0	0	0	36	232	464	636	756	801	693	631	495	282	86	1	0	0	0	0	0	5113
20	0	0	0	0	0	0	0	77	253	439	488	732	801	745	672	496	281	87	2	0	0	0	0	0	5072
21	0	0	0	0	0	0	0	83	272	413	559	742	726	689	537	479	280	94	2	0	0	0	0	0	4876
22	0	0	0	0	0	0	0	69	261	449	621	744	774	715	419	377	153	47	1	0	0	0	0	0	4630
23	0	0	0	0	0	0	0	14	31	78	150	308	257	308	240	157	62	23	2	0	0	0	0	0	1630
24	0	0	0	0	0	0	0	46	71	346	459	448	446	338	224	219	124	57	1	0	0	0	0	0	2781
25	0	0	0	0	0	0	0	46	268	385	475	642	750	667	507	432	298	96	3	0	0	0	0	0	4568
26	0	0	0	0	0	0	0	46	127	352	640	683	679	671	419	458	292	43	1	0	0	0	0	0	4411
27	0	0	0	0	0	0	1	45	249	370	506	517	711	768	672	507	300	97	4	0	0	0	0	0	4746
28	0	0	0	0	0	0	1	44	103	424	625	755	805	778	584	325	261	87	3	0	0	0	0	0	4794
Avg	0	0	0	0	0	0	0	36	159	312	442	542	572	544	443	338	195	59	1	0	0	0	0	0	3644
SD	0	0	0	0	0	0	0	22	85	140	182	221	248	247	202	153	91	29	1	0	0	0	0	0	1516
S/A	0	0	0	0	0	0	1.86	0.61	0.53	0.45	0.41	0.41	0.43	0.45	0.46	0.45	0.46	0.49	0.91	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	2	29	47	72	124	90	65	91	54	26	7	0	0	0	0	0	0	801
Max	0	0	0	0	0	0	1	83	272	464	640	756	805	791	679	507	300	108	4	0	0	0	0	0	5267

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3746 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 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	0	2	9	10	14	12	8	6	7	8	6	6	0	0	0	0	0	0	89
2	0	0	0	0	0	0	0	6	5	5	5	7	7	6	6	7	7	6	0	0	0	0	0	0	66
3	0	0	0	0	0	0	0	4	4	3	6	6	5	8	9	5	6	3	3	0	0	0	0	0	62
4	0	0	0	0	0	0	0	6	5	6	5	6	4	5	7	7	4	5	238	0	0	0	0	0	299
5	0	0	0	0	0	0	0	6	4	29	55	28	37	37	43	37	20	27	29	0	0	0	0	0	351
6	0	0	0	0	0	0	0	5	30	26	16	14	19	24	35	36	16	24	13	0	0	0	0	0	259
7	0	0	0	0	0	0	0	35	69	48	25	22	30	32	35	35	19	27	9	0	0	0	0	0	384
8	0	0	0	0	0	0	0	28	75	25	18	32	40	40	38	36	22	20	3	0	0	0	0	0	376
9	0	0	0	0	0	0	0	15	25	32	23	29	33	37	41	36	17	32	4	0	0	0	0	0	323
10	0	0	0	0	0	0	0	38	43	66	35	42	51	56	66	41	11	13	2	0	0	0	0	0	464
11	0	0	0	0	0	0	0	4	5	34	12	14	52	56	68	55	42	10	20	0	0	0	0	0	371
12	0	0	0	0	0	0	0	616	5	7	8	14	45	7	8	7	6	4	3	0	0	0	0	0	729
13	0	0	0	0	0	0	0	12	6	6	7	9	8	9	8	8	9	10	9	0	0	0	0	0	100
14	0	0	0	0	0	0	0	15	8	8	47	28	36	42	48	53	51	59	12	0	0	0	0	0	406
15	0	0	0	0	0	0	0	9	36	63	65	36	41	47	42	45	43	39	4	0	0	0	0	0	471
16	0	0	0	0	0	0	0	11	62	39	29	40	42	41	37	36	23	29	5	0	0	0	0	0	393
17	0	0	0	0	0	0	0	52	48	62	28	33	5	5	2	4	42	21	11	0	0	0	0	0	313
18	0	0	0	0	0	0	0	17	23	44	18	30	33	35	39	41	40	47	6	0	0	0	0	0	373
19	0	0	0	0	0	0	0	31	37	46	16	27	33	52	52	41	35	40	13	0	0	0	0	0	423
20	0	0	0	0	0	0	0	131	94	57	34	40	37	41	43	41	44	35	9	0	0	0	0	0	606
21	0	0	0	0	0	0	0	56	39	56	42	54	48	65	55	49	46	51	6	0	0	0	0	0	568
22	0	0	0	0	0	0	0	38	22	40	17	31	44	56	57	54	34	10	5	0	0	0	0	0	408
23	0	0	0	0	0	0	0	4	2	2	2	20	3	3	4	3	3	31	0	0	0	0	0	0	81
24	0	0	0	0	0	0	0	38	14	58	61	64	55	32	16	19	10	20	5	0	0	0	0	0	391
25	0	0	0	0	0	0	11	39	46	57	29	34	39	47	46	48	42	38	11	0	0	0	0	0	485
26	0	0	0	0	0	0	5	36	21	47	7	40	43	42	38	43	51	19	10	0	0	0	0	0	402
27	0	0	0	0	0	0	3	46	63	65	59	51	62	44	36	46	36	41	9	0	0	0	0	0	560
28	0	0	0	0	0	0	3	13	10	46	2	21	29	36	38	43	47	37	8	0	0	0	0	0	332
Avg	0	0	0	0	0	0	1	47	29	35	24	28	32	33	33	32	26	24	17	0	0	0	0	0	360
SD	0	0	0	0	0	0	2	112	25	22	19	15	17	19	19	17	16	16	43	0	0	0	0	0	163
S/A	0	0	0	0	0	0	2.96	2.4	0.87	0.61	0.76	0.52	0.54	0.57	0.59	0.55	0.63	0.65	2.53	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	2	2	2	2	6	3	3	2	3	3	3	0	0	0	0	0	0	62
Max	0	0	0	0	0	0	11	616	94	66	65	64	62	65	68	55	51	59	238	0	0	0	0	0	729

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3746 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 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	0	2	83	94	289	222	103	82	106	92	46	17	0	0	0	0	0	0	1135
2	0	0	0	0	0	0	0	5	27	50	69	129	152	100	88	82	57	13	0	0	0	0	0	0	772
3	0	0	0	0	0	0	0	5	44	46	122	136	92	150	139	52	24	7	0	0	0	0	0	0	818
4	0	0	0	0	0	0	0	3	37	67	78	120	87	90	131	122	54	19	0	0	0	0	0	0	808
5	0	0	0	0	0	0	0	10	47	196	449 ?	465 ?	527 ?	417 ?	499 ?	?	211 ?	62	0	0	0	0	0	0	2883 ?
6	0	0	0	0	0	0	0	48	179 ?	?	?	?	?	?	?	?	213 ?	62	0	0	0	0	0	0	502 ?
7	0	0	0	0	0	0	0	41	201 ?	312 ?	?	?	?	?	?	?	214 ?	64	0	0	0	0	0	0	831 ?
8	0	0	0	0	0	0	0	38	180 ?	?	?	?	481 ?	579 ?	?	337 ?	215 ?	50	0	0	0	0	0	0	1881 ?
9	0	0	0	0	0	0	0	46	183 ?	326 ?	457 ?	?	?	?	?	?	209 ?	65	0	0	0	0	0	0	1286 ?
10	0	0	0	0	0	0	0	39	192	319 ?	493 ?	501 ?	570 ?	546 ?	426	244	112	50	1	0	0	0	0	0	3493 ?
11	0	0	0	0	0	0	0	23	116	282	348	327	491	459	443	351	170	42	1	0	0	0	0	0	3053
12	0	0	0	0	0	0	0	16	83	152	248	315	477	437	242	154	80	20	0	0	0	0	0	0	2225
13	0	0	0	0	0	0	0	14	80	142	224	271	306	304	270	208	110	26	0	0	0	0	0	0	1954
14	0	0	0	0	0	0	0	28	112	214	369 ?	591 ?	555 ?	512 ?	543 ?	274 ?	173 ?	90	2	0	0	0	0	0	3462 ?
15	0	0	0	0	0	0	0	30	123	278	386	539 ?	325 ?	543 ?	294 ?	247	207	68	1	0	0	0	0	0	3041 ?
16	0	0	0	0	0	0	0	33	189 ?	365 ?	428 ?	404 ?	499 ?	490 ?	420 ?	365 ?	264	74	0	0	0	0	0	0	3531 ?
17	0	0	0	0	0	0	0	60	205	262 ?	227	255	201	61	99	109	158	57	2	0	0	0	0	0	1697
18	0	0	0	0	0	0	0	55	224	?	?	?	?	?	?	382 ?	212 ?	84	2	0	0	0	0	0	960 ?
19	0	0	0	0	0	0	0	33	187 ?	351 ?	?	?	?	556 ?	377 ?	392 ?	270	80	1	0	0	0	0	0	2246 ?
20	0	0	0	0	0	0	0	62	209	385 ?	363 ?	405 ?	?	?	?	393 ?	265	81	1	0	0	0	0	0	2163 ?
21	0	0	0	0	0	0	0	65	241 ?	376	511 ?	?	530 ?	498 ?	448 ?	395 ?	263	86	2	0	0	0	0	0	3415 ?
22	0	0	0	0	0	0	0	65	255	379 ?	?	?	476 ?	515 ?	353	262 ?	140	45	1	0	0	0	0	0	2492 ?
23	0	0	0	0	0	0	0	14	31	77	149	293	254	305	237	156	61	23	1	0	0	0	0	0	1601
24	0	0	0	0	0	0	0	42	66	308	340 ?	374	403	314	213	209	121	53	1	0	0	0	0	0	2444
25	0	0	0	0	0	0	0	41	245	308 ?	347 ?	497 ?	557 ?	519 ?	380 ?	349 ?	253 ?	90	3	0	0	0	0	0	3588 ?
26	0	0	0	0	0	0	0	42	120	288	?	496 ?	462 ?	411 ?	307 ?	303 ?	264	39	1	0	0	0	0	0	2733 ?
27	0	0	0	0	0	0	1	39	228	327	403 ?	463	549 ?	?	?	420 ?	286	90	3	0	0	0	0	0	2808 ?
28	0	0	0	0	0	0	1	43	99	256 ?	?	?	?	?	448 ?	301	243	79	3	0	0	0	0	0	1472 ?
Avg	0	0	0	0	0	0	0	34	142	246	315	358	386	376	308	258	175	55	1	0	0	0	0	0	2118
S D	0	0	0	0	0	0	0	19	72	109	131	141	167	174	138	112	79	26	1	0	0	0	0	0	971
S/A	0	0	0	0	0	0	2.23	0.56	0.51	0.44	0.42	0.39	0.43	0.46	0.45	0.44	0.45	0.47	0.93	0	0	0	0	0	0.46
Min	0	0	0	0	0	0	0	2	27	46	69	120	87	61	88	52	24	7	0	0	0	0	0	0	502
Max	0	0	0	0	0	0	1	65	255	385	511	591	570	579	543	420	286	90	3	0	0	0	0	0	3588

Daylight Data Recovery: 0% missing; 31% exceed the 15% QC threshold -- 3746 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