

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - January 1997

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	20	120	230	489	580	472	434	446	273	179	17	0	0	0	0	0	0	3260
2	0	0	0	0	0	0	0	21	138	284	435	577	627	600	503	355	168	17	0	0	0	0	0	0	3724
3	0	0	0	0	0	0	0	24	138	190	218	268	605	610	515	366	174	17	0	0	0	0	0	0	3124
4	0	0	0	0	0	0	0	23	141	284	442	599	629	593	509	359	168	19	0	0	0	0	0	0	3767
5	0	0	0	0	0	0	0	22	155	332	479	593	609	556	459	260	149	23	0	0	0	0	0	0	3638
6	0	0	0	0	0	0	0	9	54	133	232	505	550	559	458	311	165	23	0	0	0	0	0	0	3000
7	0	0	0	0	0	0	0	8	58	103	221	445	651	612	503	215	51	12	0	0	0	0	0	0	2881
8	0	0	0	0	0	0	0	17	156	132	255	382	402	580	499	303	156	30	0	0	0	0	0	0	2912
9	0	0	0	0	0	0	0	19	170	211	410	268	324	257	159	19	11	2	0	0	0	0	0	0	1851
10	0	0	0	0	0	0	0	18	167	292	395	335	321	400	347	161	73	7	0	0	0	0	0	0	2515
11	0	0	0	0	0	0	0	17	153	344	503	619	613	613	488	155	69	11	0	0	0	0	0	0	3586
12	0	0	0	0	0	0	0	20	147	341	484	588	658	642	563	411	215	32	0	0	0	0	0	0	4102
13	0	0	0	0	0	0	0	14	90	244	380	495	387	268	153	114	60	10	0	0	0	0	0	0	2214
14	0	0	0	0	0	0	0	1	24	61	131	88	125	194	408	354	124	11	0	0	0	0	0	0	1523
15	0	0	0	0	0	0	0	12	57	113	99	104	128	185	115	67	33	9	0	0	0	0	0	0	922
16	0	0	0	0	0	0	0	7	23	201	381	581	698	677	589	438	240	44	0	0	0	0	0	0	3879
17	0	0	0	0	0	0	0	17	147	296	539	660	715	692	583	443	222	38	0	0	0	0	0	0	4351
18	0	0	0	0	0	0	0	13	169	380	559	681	733	718	624	465	256	51	0	0	0	0	0	0	4650
19	0	0	0	0	0	0	0	18	171	364	543	661	705	688	588	420	240	48	0	0	0	0	0	0	4446
20	0	0	0	0	0	0	0	27	191	362	531	651	707	683	589	438	239	41	0	0	0	0	0	0	4460
21	0	0	0	0	0	0	0	21	161	355	522	643	694	674	582	406	186	30	0	0	0	0	0	0	4275
22	0	0	0	0	0	0	0	8	148	337	415	613	639	614	360	421	231	45	0	0	0	0	0	0	3831
23	0	0	0	0	0	0	0	25	165	346	515	632	681	654	571	423	232	43	0	0	0	0	0	0	4287
24	0	0	0	0	0	0	0	27	167	358	466	529	579	571	436	440	231	42	0	0	0	0	0	0	3845
25	0	0	0	0	0	0	0	7	22	32	73	61	184	154	55	89	91	26	0	0	0	0	0	0	793
26	0	0	0	0	0	0	0	21	174	381	555	678	731	710	616	465	247	30	0	0	0	0	0	0	4609
27	0	0	0	0	0	0	0	16	113	207	368	331	469	170	143	86	40	12	0	0	0	0	0	0	1956
28	0	0	0	0	0	0	0	30	173	368	526	414	633	618	547	436	254	56	0	0	0	0	0	0	4054
29	0	0	0	0	0	0	0	25	133	253	438	548	673	682	595	438	184	26	0	0	0	0	0	0	3995
30	0	0	0	0	0	0	0	6	37	53	158	212	291	436	401	439	285	67	0	0	0	0	0	0	2384
31	0	0	0	0	0	0	0	2	32	77	82	110	254	706	644	484	262	64	0	0	0	0	0	0	2719
Avg	0	0	0	0	0	0	0	17	122	247	382	466	532	534	453	324	169	29	0	0	0	0	0	0	3276
S/D	0	0	0	0	0	0	0	7	54	110	153	193	187	179	163	139	78	17	0	0	0	0	0	0	1060
S/A	0	0	0	0	0	0	0	0.44	0.44	0.44	0.4	0.41	0.35	0.34	0.36	0.43	0.46	0.59	0	0	0	0	0	0	0.32
Min	0	0	0	0	0	0	0	1	22	32	73	61	125	154	55	19	11	2	0	0	0	0	0	0	793
Max	0	0	0	0	0	0	0	30	191	381	559	681	733	718	644	484	285	67	0	0	0	0	0	0	4650

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: 8.33 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 - January 1997**

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	Dayly
1	0	0	0	0	0	0	0	75	118	275	783	676	496	508	677	415	491	72	0	0	0	0	0	0	4588
2	0	0	0	0	0	0	0	86	380	582	729	853	879	862	831	761	592	116	0	0	0	0	0	0	6671
3	0	0	0	0	0	0	0	137	297	7	30	34	680	928	894	806	618	161	0	0	0	0	0	0	4592
4	0	0	0	0	0	0	0	107	395	565	725	791	829	809	813	744	530	132	0	0	0	0	0	0	6440
5	0	0	0	0	0	0	0	99	453	723	829	889	775	706	707	350	385	244	0	0	0	0	0	0	6160
6	0	0	0	0	0	0	0	12	18	26	41	358	482	690	641	427	414	139	0	0	0	0	0	0	3249
7	0	0	0	0	0	0	0	10	17	17	31	358	753	863	726	221	18	10	0	0	0	0	0	0	3024
8	0	0	0	0	0	0	0	13	196	21	30	97	117	740	771	543	348	89	0	0	0	0	0	0	2966
9	0	0	0	0	0	0	0	29	320	90	442	35	76	56	20	3	2	1	0	0	0	0	0	0	1073
10	0	0	0	0	0	0	0	32	394	430	300	63	44	44	146	29	21	7	0	0	0	0	0	0	1511
11	0	0	0	0	0	0	0	66	484	743	859	925	796	832	483	27	22	8	0	0	0	0	0	0	5246
12	0	0	0	0	0	0	0	25	430	719	780	811	867	927	952	893	739	227	0	0	0	0	0	0	7371
13	0	0	0	0	0	0	0	20	33	293	298	465	175	28	16	20	19	9	0	0	0	0	0	0	1376
14	0	0	0	0	0	0	0	4	7	11	19	9	12	20	285	376	106	7	0	0	0	0	0	0	856
15	0	0	0	0	0	0	0	17	14	17	12	10	12	18	14	11	11	20	0	0	0	0	0	0	158
16	0	0	0	0	0	0	0	13	5	198	306	716	994	1012	1002	961	840	394	0	0	0	0	0	0	6442
17	0	0	0	0	0	0	0	36	315	270	897	964	1003	1017	951	932	687	260	0	0	0	0	0	0	7332
18	0	0	0	0	0	0	0	58	566	833	959	1023	1050	1076	1061	1008	872	425	0	0	0	0	0	0	8931
19	0	0	0	0	0	0	0	68	490	744	908	967	977	995	946	837	772	342	0	0	0	0	0	0	8046
20	0	0	0	0	0	0	0	186	644	774	888	959	1001	998	962	902	740	246	0	0	0	0	0	0	8300
21	0	0	0	0	0	0	0	105	517	761	874	937	964	965	932	758	293	61	0	0	0	0	0	0	7167
22	0	0	0	0	0	0	0	9	232	614	521	796	755	674	345	734	614	250	0	0	0	0	0	0	5543
23	0	0	0	0	0	0	0	120	483	691	822	887	907	879	864	802	633	188	0	0	0	0	0	0	7276
24	0	0	0	0	0	0	0	83	436	707	693	436	504	568	472	772	607	171	0	0	0	0	0	0	5450
25	0	0	0	0	0	0	0	10	8	4	8	5	19	14	6	14	25	25	0	0	0	0	0	0	138
26	0	0	0	0	0	0	0	81	535	794	906	969	987	988	931	858	537	39	0	0	0	0	0	0	7624
27	0	0	0	0	0	0	0	32	65	47	120	48	82	20	14	11	9	8	0	0	0	0	0	0	456
28	0	0	0	0	0	0	0	129	482	740	826	446	683	673	681	703	390	105	0	0	0	0	0	0	5857
29	0	0	0	0	0	0	0	22	67	131	291	531	737	769	729	436	83	17	0	0	0	0	0	0	3813
30	0	0	0	0	0	0	0	7	9	8	17	20	26	71	66	90	54	26	0	0	0	0	0	0	397
31	0	0	0	0	0	0	0	3	8	12	9	10	26	819	530	64	59	36	0	0	0	0	0	0	1576
Avg	0	0	0	0	0	0	0	55	272	382	482	519	571	631	596	500	372	124	0	0	0	0	0	0	4504
S D	0	0	0	0	0	0	0	47	211	320	363	381	382	375	352	354	297	121	0	0	0	0	0	0	2764
S/A	0	0	0	0	0	0	0	0.87	0.78	0.84	0.75	0.73	0.67	0.59	0.59	0.71	0.8	0.98	0	0	0	0	0	0	0.61
Min	0	0	0	0	0	0	0	3	5	4	8	5	12	14	6	3	2	1	0	0	0	0	0	0	138
Max	0	0	0	0	0	0	0	186	644	833	959	1023	1050	1076	1061	1008	872	425	0	0	0	0	0	0	8931

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
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - January 1997

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	16	92	119	90	181	169	144	103	127	74	12	0	0	0	0	0	0	1126
2	0	0	0	0	0	0	0	14	51	59	63	76	90	98	88	71	43	8	0	0	0	0	0	0	660
3	0	0	0	0	0	0	0	13	78	188	202	247	188	69	66	64	43	6	0	0	0	0	0	0	1164
4	0	0	0	0	0	0	0	15	53	65	70	134	120	120	100	79	54	10	0	0	0	0	0	0	820
5	0	0	0	0	0	0	0	15	49	53	56	69	132	142	102	128	67	11	0	0	0	0	0	0	824
6	0	0	0	0	0	0	0	9	50	123	210	292	253	152	136	142	75	13	0	0	0	0	0	0	1454
7	0	0	0	0	0	0	0	8	54	96	205	231	186	103	129	125	48	11	0	0	0	0	0	0	1196
8	0	0	0	0	0	0	0	16	111	124	240	325	330	142	104	86	79	23	0	0	0	0	0	0	1581
9	0	0	0	0	0	0	0	19	96	174	186	247	277	225	148	17 ?	11	2	0	0	0	0	0	0	1400
10	0	0	0	0	0	0	0	15	72	115	249	297	294	373	268	149	68	6	0	0	0	0	0	0	1909
11	0	0	0	0	0	0	0	11	42	55	59	66	115	115	229	145	64	10	0	0	0	0	0	0	911
12	0	0	0	0	0	0	0	18	47	60	81	102	114	85	65	57	41	11	0	0	0	0	0	0	682
13	0	0	0	0	0	0	0	13	82	130	225	214	277	251	144	106	56	9	0	0	0	0	0	0	1508
14	0	0	0	0	0	0	0	1	22	56	121	83	118	182	265	210	93	11	0	0	0	0	0	0	1164
15	0	0	0	0	0	0	0	12	54	106	93	97	120	174	107	62	31	9	0	0	0	0	0	0	865
16	0	0	0	0	0	0	0	7	21	115	223	143	64	58	54	46	34	10	0	0	0	0	0	0	776
17	0	0	0	0	0	0	0	13	77	182	68	73	73	67	71	59	55	17	0	0	0	0	0	0	755
18	0	0	0	0	0	0	0	8	37	49	53	56	59	53	51	47	37	12	0	0	0	0	0	0	463
19	0	0	0	0	0	0	0	11	55	68	62	67	75	71	74	71	46	13	0	0	0	0	0	0	614
20	0	0	0	0	0	0	0	12	42	52	59	60	59	60	63	59	47	14	0	0	0	0	0	0	529
21	0	0	0	0	0	0	0	12	38	49	56	64	68	69	70	78	104	23	0	0	0	0	0	0	629
22	0	0	0	0	0	0	0	8	85	88	137	119	146	188	172	109	66	19	0	0	0	0	0	0	1137
23	0	0	0	0	0	0	0	14	50	65	73	78	86	97	91	77	62	21	0	0	0	0	0	0	714
24	0	0	0	0	0	0	0	19	59	71	95	257	247	210	175	105	64	22	0	0	0	0	0	0	1325
25	0	0	0	0	0	0	0	7	20	30	68	57	171	145	51	84	84	23	0	0	0	0	0	0	741
26	0	0	0	0	0	0	0	13	42	54	61	66	74	75	88	87	86	27	0	0	0	0	0	0	673
27	0	0	0	0	0	0	0	15	100	187	301	300	414	156	136	81	38	11	0	0	0	0	0	0	1739
28	0	0	0	0	0	0	0	17	53	60	71	136	173	180	156	121	140	43	0	0	0	0	0	0	1151
29	0	0	0	0	0	0	0	24	116	197	274	204	175	179	174	235	157	24	0	0	0	0	0	0	1760
30	0	0	0	0	0	0	0	5	35	50	148	200	273	389	364	356 ?	228 ?	66	0	0	0	0	0	0	2113
31	0	0	0	0	0	0	0	2	30	72	77	103	237	169	285	? 180 ?	59	0	0	0	0	0	0	0	1214
Avg	0	0	0	0	0	0	0	12	59	94	128	150	167	146	133	106	73	18	0	0	0	0	0	0	1084
S D	0	0	0	0	0	0	0	5	26	48	77	87	91	81	77	65	46	14	0	0	0	0	0	0	429
S/A	0	0	0	0	0	0	0	0.4	0.44	0.51	0.6	0.58	0.54	0.55	0.58	0.62	0.62	0.79	0	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	0	1	20	30	53	56	59	53	51	17	11	2	0	0	0	0	0	0	463
Max	0	0	0	0	0	0	0	24	116	197	301	325	414	389	364	356	228	66	0	0	0	0	0	0	2113

Daylight Data Recovery: 0% missing; 1% 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: 8.08 uV/Wm-2
Serial Number: 17879F3
Calibration Date: 9/13/96