

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - February 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	0	23	176	393	564	694	648	592	578	460	231	21	0	0	0	0	0	0	4380
2	0	0	0	0	0	0	0	11	49	115	183	265	369	125	103	113	38	3	0	0	0	0	0	0	1373
3	0	0	0	0	0	0	0	20	142	318	438	370	423	399	382	237	138	32	0	0	0	0	0	0	2900
4	0	0	0	0	0	0	0	7	61	149	333	285	227	210	230	196	82	13	0	0	0	0	0	0	1794
5	0	0	0	0	0	0	0	32	202	417	598	730	784	764	668	499	292	76	0	0	0	0	0	0	5061
6	0	0	0	0	0	0	0	30	194	363	449	435	324	266	196	99	43	5	0	0	0	0	0	0	2404
7	0	0	0	0	0	0	0	41	191	299	541	186	171	345	550	399	188	82	0	0	0	0	0	0	2994
8	0	0	0	0	0	0	0	33	202	411	588	724	784	767	674	513	306	86	0	0	0	0	0	0	5088
9	0	0	0	0	0	0	0	42	209	406	586	692	775	755	658	500	293	82	0	0	0	0	0	0	4997
10	0	0	0	0	0	0	0	45	206	421	588	720	777	759	601	507	303	87	0	0	0	0	0	0	5014
11	0	0	0	0	0	0	0	25	171	423	597	504	592	633	507	436	181	43	1	0	0	0	0	0	4113
12	0	0	0	0	0	0	0	40	214	431	621	752	798	764	685	536	306	89	0	0	0	0	0	0	5237
13	0	0	0	0	0	0	0	32	181	426	479	350	186	113	99	53	22	13	0	0	0	0	0	0	1956
14	0	0	0	0	0	0	0	31	132	280	510	632	617	636	489	344	212	70	0	0	0	0	0	0	3952
15	0	0	0	0	0	0	0	27	126	175	288	251	223	412	379	37	14	5	0	0	0	0	0	0	1937
16	0	0	0	0	0	0	0	7	28	120	91	180	115	97	82	20	40	16	0	0	0	0	0	0	795
17	0	0	0	0	0	0	0	19	127	338	588	722	774	763	673	513	311	82	1	0	0	0	0	0	4913
18	0	0	0	0	0	0	0	60	238	443	642	774	836	818	724	560	343	119	1	0	0	0	0	0	5558
19	0	0	0	0	0	0	0	53	215	379	605	710	735	566	374	176	107	22	0	0	0	0	0	0	3942
20	0	0	0	0	0	0	0	43	194	333	629	778	838	820	722	553	348	122	1	0	0	0	0	0	5381
21	0	0	0	0	0	0	0	56	195	465	639	778	842	830	733	565	347	115	2	0	0	0	0	0	5568
22	0	0	0	0	0	0	0	9	42	87	91	158	200	446	303	306	133	21	0	0	0	0	0	0	1797
23	0	0	0	0	0	0	0	61	254	462	450	538	685	601	816	456	322	64	2	0	0	0	0	0	4712
24	0	0	0	0	0	0	0	68	277	503	691	822	881	860	762	597	380	140	3	0	0	0	0	0	5982
25	0	0	0	0	0	0	0	70	283	485	675	809	867	852	758	594	379	140	3	0	0	0	0	0	5915
26	0	0	0	0	0	0	1	97	276	477	675	806	719	645	761	586	368	117	3	0	0	0	0	0	5530
27	0	0	0	0	0	0	1	20	108	255	419	405	380	313	521	467	276	78	3	0	0	0	0	0	3247
28	0	0	0	0	0	0	1	80	172	108	39	131	345	229	307	399	354	131	4	0	0	0	0	0	2300
Avg	0	0	0	0	0	0	0	39	174	339	486	543	568	549	512	383	227	67	1	0	0	0	0	0	3887
S D	0	0	0	0	0	0	0	22	68	127	186	235	256	249	224	186	122	45	1	0	0	0	0	0	1550
S/A	0	0	0	0	0	0	2.01	0.58	0.39	0.37	0.38	0.43	0.45	0.45	0.44	0.49	0.54	0.67	1.27	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	0	7	28	87	39	131	115	97	82	20	14	3	0	0	0	0	0	0	795
Max	0	0	0	0	0	0	1	97	283	503	691	822	881	860	816	597	380	140	4	0	0	0	0	0	5982

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 24081 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 - February 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	0	28	393	735	853	931	605	455	592	782	248	13	0	0	0	0	0	0	5636
2	0	0	0	0	0	0	0	10	13	20	24	21	41	13	12	18	8	2	0	0	0	0	0	0	183
3	0	0	0	0	0	0	0	17	67	339	398	107	137	84	153	75	68	11	12	0	0	0	0	0	1467
4	0	0	0	0	0	0	0	17	16	26	116	42	25	25	59	36	21	8	0	0	0	0	0	0	390
5	0	0	0	0	0	0	0	172	595	826	934	1002	1024	1026	1001	909	757	328	8	0	0	0	0	0	8581
6	0	0	0	0	0	0	0	98	438	534	388	138	30	32	24	15	10	2	0	0	0	0	0	0	1709
7	0	0	0	0	0	0	0	154	399	253	647	22	16	90	563	466	263	290	1	0	0	0	0	0	3163
8	0	0	0	0	0	0	0	106	519	742	848	950	991	994	969	903	759	398	2	0	0	0	0	0	8180
9	0	0	0	0	0	0	0	152	514	711	826	835	908	915	884	813	654	316	2	0	0	0	0	0	7531
10	0	0	0	0	0	0	0	217	523	770	833	906	934	931	673	843	702	326	106	0	0	0	0	0	7766
11	0	0	0	0	0	0	0	14	192	713	710	247	284	363	383	464	153	25	9	0	0	0	0	0	3557
12	0	0	0	0	0	0	0	587	551	799	928	991	989	955	957	925	665	324	4	0	0	0	0	0	8674
13	0	0	0	0	0	0	0	37	232	340	262	41	24	15	15	10	6	8	2	0	0	0	0	0	991
14	0	0	0	0	0	0	0	35	46	82	518	471	321	445	258	133	113	53	4	0	0	0	0	0	2477
15	0	0	0	0	0	0	0	27	42	52	72	27	27	91	110	7	4	2	4	0	0	0	0	0	464
16	0	0	0	0	0	0	0	7	8	24	13	23	14	12	12	3	11	10	0	0	0	0	0	0	135
17	0	0	0	0	0	0	0	17	154	288	662	800	835	861	838	769	632	203	13	0	0	0	0	0	6072
18	0	0	0	0	0	0	0	212	566	750	892	960	994	1002	988	931	791	535	8	0	0	0	0	0	8629
19	0	0	0	0	0	0	0	128	449	509	781	672	707	314	65	32	31	11	2	0	0	0	0	0	3702
20	0	0	0	0	0	0	0	38	108	271	821	962	990	995	970	908	806	535	11	0	0	0	0	0	7415
21	0	0	0	0	0	0	0	126	383	781	862	932	976	997	971	899	754	418	10	0	0	0	0	0	8109
22	0	0	0	0	0	0	0	8	12	16	13	20	25	106	56	65	37	11	4	0	0	0	0	0	373
23	0	0	0	0	0	0	7	131	539	627	311	303	486	444	855	452	472	47	27	0	0	0	0	0	4699
24	0	0	0	0	0	0	25	215	678	869	962	1015	1042	1046	1031	986	886	624	24	0	0	0	0	0	9405
25	0	0	0	0	0	0	14	241	678	826	922	984	1010	1024	1012	964	861	597	26	0	0	0	0	0	9159
26	0	0	0	0	0	0	3	426	661	802	911	964	772	656	940	904	784	407	21	0	0	0	0	0	8252
27	0	0	0	0	0	0	2	17	39	55	81	40	54	38	303	442	373	88	8	0	0	0	0	0	1541
28	0	0	0	0	0	0	8	49	45	23	3	14	62	27	78	265	650	339	12	0	0	0	0	0	1574
Avg	0	0	0	0	0	0	2	117	316	456	557	515	511	498	528	501	411	212	11	0	0	0	0	0	4637
S D	0	0	0	0	0	0	5	133	241	318	350	422	423	417	405	388	334	210	20	0	0	0	0	0	3333
S/A	0	0	0	0	0	0	2.59	1.13	0.76	0.7	0.63	0.82	0.83	0.84	0.77	0.77	0.81	0.99	1.74	0	0	0	0	0	0.72
Min	0	0	0	0	0	0	0	7	8	16	3	14	14	12	12	3	4	2	0	0	0	0	0	0	135
Max	0	0	0	0	0	0	25	587	678	869	962	1015	1042	1046	1031	986	886	624	106	0	0	0	0	0	9405

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 60956 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 - February 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	0	21	77	79	84	89	234	292	233	98	152	19	0	0	0	0	0	0	1378
2	0	0	0	0	0	0	0	10	46	106	170	251	341	116	95	104	35	3	0	0	0	0	0	0	1279
3	0	0	0	0	0	0	0	18	122	172	219	298	329	342	293	200	118	31	0	0	0	0	0	0	2141
4	0	0	0	0	0	0	0	7	56	138	264	258	210	194	196	179	75	12	0	0	0	0	0	0	1589
5	0	0	0	0	0	0	0	16	44	56	61	64	68	68	64	65	55	27	0	0	0	0	0	0	587
6	0	0	0	0	0	0	0	24	66	129	227	344	302	244	181	92	40	4	0	0	0	0	0	0	1654
7	0	0	0	0	0	0	0	23	87	178	169	171	159	285	206	170	105	40	0	0	0	0	0	0	1593
8	0	0	0	0	0	0	0	20	58	79	92	82	80	80	79	72	61	28	0	0	0	0	0	0	731
9	0	0	0	0	0	0	0	26	66	85	99	124	126	120	111	100	79	34	0	0	0	0	0	0	972
10	0	0	0	0	0	0	0	24	57	74	94	101	106	109	187	89	71	36	0	0	0	0	0	0	947
11	0	0	0	0	0	0	0	24	107	96	174	339	386	380	266	200	125	39	1	0	0	0	0	0	2137
12	0	0	0	0	0	0	0	23	55	62	65	68	79	90	83	71	79	45	0	0	0	0	0	0	720
13	0	0	0	0	0	0	0	29	119	269	325	322	169	103	90	48	20	12	0	0	0	0	0	0	1505
14	0	0	0	0	0	0	0	31	119	239	195	305	381	319	323	277	174	61	0	0	0	0	0	0	2423
15	0	0	0	0	0	0	0	24	114	149	246	232	203	347	307	34	13	5	0	0	0	0	0	0	1673
16	0	0	0	0	0	0	0	6	25	109	83	164	105	89	74	18	36	14	0	0	0	0	0	0	723
17	0	0	0	0	0	0	0	18	73	205	173	154	150	138	129	112	88	41	1	0	0	0	0	0	1283
18	0	0	0	0	0	0	0	31	64	80	87	88	89	87	79	72	62	32	1	0	0	0	0	0	772
19	0	0	0	0	0	0	0	36	74	138	116	229	200	334	331	159	96	20	0	0	0	0	0	0	1733
20	0	0	0	0	0	0	0	39	159	203	108	83	87	86	82	70	56	30	1	0	0	0	0	0	1002
21	0	0	0	0	0	0	0	37	72	78	92	101	97	91	88	83	71	40	2	0	0	0	0	0	853
22	0	0	0	0	0	0	0	8	38	79	82	144	180	368	265	271	119	19	0	0	0	0	0	0	1574
23	0	0	0	0	0	0	0	40	77	155	251	314	311	268	242	201	151	55	2	0	0	0	0	0	2067
24	0	0	0	0	0	0	0	33	54	63	69	72	73	71	66	59	48	28	1	0	0	0	0	0	638
25	0	0	0	0	0	0	0	36	56	64	75	78	80	76	71	65	54	31	1	0	0	0	0	0	687
26	0	0	0	0	0	0	0	35	59	63	78	86	114	145	119	86	70	40	2	0	0	0	0	0	898
27	0	0	0	0	0	0	1	18	95	227	366	375	337	284	317	218	136	62	3	0	0	0	0	0	2439
28	0	0	0	0	0	0	1	73	156	96	36	120	296	208	256	258	103	61	3	0	0	0	0	0	1667
Avg	0	0	0	0	0	0	0	26	78	124	146	181	189	191	173	124	82	31	1	0	0	0	0	0	1345
S D	0	0	0	0	0	0	0	13	33	60	85	101	104	108	93	73	41	16	1	0	0	0	0	0	556
S/A	0	0	0	0	0	0	2.11	0.5	0.42	0.48	0.58	0.56	0.55	0.57	0.54	0.59	0.5	0.53	1.27	0	0	0	0	0	0.41
Min	0	0	0	0	0	0	0	6	25	56	36	64	68	68	64	18	13	3	0	0	0	0	0	0	587
Max	0	0	0	0	0	0	1	73	159	269	366	375	386	380	331	277	174	62	3	0	0	0	0	0	2439

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 24081 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