

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - August 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	1	29	81	181	225	248	262	308	230	406	531	298	172	32	0	0	0	0	0	3003
2	0	0	0	0	0	3	69	167	244	516	758	604	705	574	724	422	135	91	18	0	0	0	0	0	5032
3	0	0	0	0	0	1	49	289	463	700	690	948	953	761	155	32	170	191	31	0	0	0	0	0	5434
4	0	0	0	0	0	1	72	272	479	758	835	834	665	389	563	486	355	149	35	1	0	0	0	0	5894
5	0	0	0	0	0	2	46	158	242	582	899	861	832	323	554	486	458	126	34	1	0	0	0	0	5606
6	0	0	0	0	0	2	126	268	490	726	776	688	999	629	720	96	134	87	36	0	0	0	0	0	5777
7	0	0	0	0	0	1	90	293	517	726	606	409	194	706	867	683	494	215	25	0	0	0	0	0	5826
8	0	0	0	0	0	2	85	295	525	655	931	1023	331	92	171	149	128	64	18	0	0	0	0	0	4469
9	0	0	0	0	0	2	93	322	523	722	874	987	1038	974	815	427	460	230	35	0	0	0	0	0	7502
10	0	0	0	0	0	2	97	141	440	512	429	711	950	663	733	28	6	8	7	0	0	0	0	0	4728
11	0	0	0	0	0	1	82	253	490	668	847	831	893	591	652	475	135	87	12	0	0	0	0	0	6015
12	0	0	0	0	0	1	89	250	403	651	789	765	687	746	620	362	119	47	45	1	0	0	0	0	5573
13	0	0	0	0	0	0	47	195	476	604	754	750	897	367	52	95	258	195	41	0	0	0	0	0	4730
14	0	0	0	0	0	0	57	249	476	637	748	527	636	598	8	16	24	30	17	0	0	0	0	0	4022
15	0	0	0	0	0	1	69	226	510	705	790	804	944	711	136	28	21	31	8	0	0	0	0	0	4985
16	0	0	0	0	0	1	74	279	457	611	726	874	872	972	788	374	167	121	29	0	0	0	0	0	6344
17	0	0	0	0	0	1	62	182	307	740	735	776	799	258	470	575	499	231	13	0	0	0	0	0	5647
18	0	0	0	0	0	0	30	100	418	591	390	161	138	394	341	262	117	75	17	0	0	0	0	0	3033
19	0	0	0	0	0	0	13	34	117	230	485	994	1006	1022	819	684	467	207	27	0	0	0	0	0	6108
20	0	0	0	0	0	0	21	59	61	55	15	23	76	203	409	521	349	211	44	0	0	0	0	0	2048
21	0	0	0	0	0	0	20	51	227	162	200	41	111	270	302	373	335	75	12	0	0	0	0	0	2179
22	0	0	0	0	0	0	73	144	483	657	486	446	513	188	103	252	252	80	19	0	0	0	0	0	3695
23	0	0	0	0	0	0	86	356	449	592	879	990	1043	944	749	576	304	122	31	0	0	0	0	0	7120
24	0	0	0	0	0	0	53	245	473	581	853	966	977	934	811	626	359	186	31	0	0	0	0	0	7095
25	0	0	0	0	0	0	63	260	490	689	838	825	872	552	696	546	260	130	37	0	0	0	0	0	6256
26	0	0	0	0	0	0	45	145	351	438	657	809	919	644	536	622	363	183	23	0	0	0	0	0	5733
27	0	0	0	0	0	0	55	229	441	644	810	915	939	897	775	587	330	149	25	0	0	0	0	0	6796
28	0	0	0	0	0	0	55	235	437	497	553	766	700	848	749	592	404	179	12	0	0	0	0	0	6026
29	0	0	0	0	0	0	61	246	466	628	501	906	957	901	779	605	391	177	17	0	0	0	0	0	6635
30	0	0	0	0	0	0	30	229	444	649	808	924	955	890	772	601	100	27	3	0	0	0	0	0	6432
31	0	0	0	0	0	0	47	213	408	617	773	905	605	491	429	461	263	96	7	0	0	0	0	0	5316
Avg	0	0	0	0	0	1	61	209	403	573	667	720	726	605	539	406	263	128	24	0	0	0	0	0	5324
S/D	0	0	0	0	0	1	25	81	122	174	222	276	295	271	261	213	144	65	12	0	0	0	0	0	1370
S/A	0	0	0	0	0	1.02	0.42	0.39	0.3	0.3	0.33	0.38	0.41	0.45	0.48	0.53	0.55	0.51	0.48	1.87	0	0	0	0	0.26
Min	0	0	0	0	0	0	13	34	61	55	15	23	76	92	8	16	6	8	3	0	0	0	0	0	2048
Max	0	0	0	0	0	3	126	356	525	758	931	1023	1043	1022	867	684	499	231	45	1	0	0	0	0	7502

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4909 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 - August 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	2	26	32	44	41	39	33	46	36	43	145	40	85	26	3	0	0	0	0	642
2	0	0	0	0	0	32	57	63	62	98	102	56	111	78	292	131	36	35	14	2	0	0	0	0	1169
3	0	0	0	0	0	7	49	70	66	112	121	620	741	423	31	6	38	165	33	3	0	0	0	0	2486
4	0	0	0	0	0	24	62	41	76	51	89	376	216	109	200	292	210	57	21	13	0	0	0	0	1839
5	0	0	0	0	0	7	41	53	64	86	66	278	530	57	289	318	435	97	28	12	0	0	0	0	2361
6	0	0	0	0	0	13	142	9	21	46	83	123	682	82	344	14	34	29	29	3	0	0	0	0	1654
7	0	0	0	0	0	8	131	1	41	18	36	52	30	272	692	771	731	371	25	1	0	0	0	0	3180
8	0	0	0	0	0	7	118	6	37	59	32	63	30	13	28	28	32	26	18	2	0	0	0	0	499
9	0	0	0	0	0	21	65	7	24	22	26	20	371	827	712	278	605	380	33	4	0	0	0	0	3394
10	0	0	0	0	0	26	105	49	42	36	49	39	86	422	641	3	1	3	7	0	0	0	0	0	1512
11	0	0	0	0	0	1	302	4	24	39	39	48	45	244	523	394	35	43	11	3	0	0	0	0	1755
12	0	0	0	0	0	19	67	54	61	61	47	49	49	144	366	162	23	17	47	12	0	0	0	0	1178
13	0	0	0	0	0	1	21	20	36	49	52	53	55	28	7	18	54	76	25	6	0	0	0	0	502
14	0	0	0	0	0	6	39	17	27	43	56	43	44	39	1	3	7	14	17	0	0	0	0	0	357
15	0	0	0	0	0	3	29	31	81	70	52	0	17	83	23	5	5	6	9	4	0	0	0	0	417
16	0	0	0	0	0	11	60	52	121	77	88	13	5	101	70	21	20	37	27	6	0	0	0	0	710
17	0	0	0	0	0	4	81	68	82	66	74	12	9	29	76	108	110	56	14	144	0	0	0	0	932
18	0	0	0	0	0	2	24	26	62	69	53	24	21	66	62	55	33	34	16	0	0	0	0	0	547
19	0	0	0	0	0	0	9	10	28	47	73	89	57	107	68	41	61	55	24	0	0	0	0	0	669
20	0	0	0	0	0	0	20	23	16	10	1	3	11	30	67	82	62	83	56	0	0	0	0	0	464
21	0	0	0	0	0	0	18	21	63	32	32	6	16	41	51	72	45	28	10	0	0	0	0	0	435
22	0	0	0	0	0	17	60	44	36	29	61	62	78	28	19	56	60	37	149	0	0	0	0	0	735
23	0	0	0	0	0	0	93	73	88	81	60	64	78	93	114	102	79	59	41	0	0	0	0	0	1024
24	0	0	0	0	0	0	101	32	41	34	28	53	67	56	28	29	47	41	79	0	0	0	0	0	636
25	0	0	0	0	0	0	79	3	14	14	27	53	59	52	60	69	62	55	43	0	0	0	0	0	593
26	0	0	0	0	0	0	53	56	53	65	71	52	74	81	65	57	63	34	43	0	0	0	0	0	768
27	0	0	0	0	0	0	42	36	30	37	37	41	38	40	50	58	52	47	27	0	0	0	0	0	535
28	0	0	0	0	0	0	40	29	32	49	63	57	81	40	35	30	26	17	14	0	0	0	0	0	511
29	0	0	0	0	0	0	73	1	3	26	36	39	29	32	36	39	41	39	20	0	0	0	0	0	412
30	0	0	0	0	0	0	25	18	21	30	39	52	49	43	44	46	14	13	3	0	0	0	0	0	397
31	0	0	0	0	0	0	53	37	50	53	56	55	50	46	49	52	53	36	72	0	0	0	0	0	663
Avg	0	0	0	0	0	7	67	32	47	50	54	82	122	121	164	112	100	67	32	7	0	0	0	0	1064
S D	0	0	0	0	0	9	54	22	25	24	25	123	188	165	209	155	169	87	28	25	0	0	0	0	814
S/A	0	0	0	0	0	1.3	0.81	0.68	0.54	0.48	0.46	1.51	1.54	1.37	1.28	1.38	1.68	1.3	0.87	3.61	0	0	0	0	0.77
Min	0	0	0	0	0	0	9	1	3	10	1	0	5	13	1	3	1	3	3	0	0	0	0	0	357
Max	0	0	0	0	0	32	302	73	121	112	121	620	741	827	712	771	731	380	149	144	0	0	0	0	3394

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 90180 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 - August 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	1	25	70	156	195	214	230	262	196	369	421	275	138	27	0	0	0	0	0	2578
2	0	0	0	0	0	3	60	144	209	443	520	551	596	499	471	322	114	78	16	0	0	0	0	0	4027
3	0	0	0	0	0	1	41	170	360	447	492	361	228	355	127	27	150	164	24	0	0	0	0	0	2948
4	0	0	0	0	0	1	62	243	400	571	636	477	454	284	391	283	232	127	33	1	0	0	0	0	4196
5	0	0	0	0	0	2	40	139	206	460	651	495	315	269	303	251	205	84	30	1	0	0	0	0	3450
6	0	0	0	0	0	2	70	265	446	524	523	570	334	552	423	86	114	77	30	0	0	0	0	0	4017
7	0	0	0	0	0	1	72	346	474	524	194	312	165	450	275	117	84	68	22	0	0	0	0	0	2581
8	0	0	0	0	0	1	68	246	448	524	621	302	80	147	128	111	55	16	0	0	0	0	0	0	2746
9	0	0	0	0	0	2	55	?	?	?	?	495	193	201	228	119	87	28	0	0	0	0	0	0	1408
10	0	0	0	0	0	1	76	123	371	289	296	263	585	268	176	25	5	7	6	0	0	0	0	0	2492
11	0	0	0	0	0	1	51	285	424	573	632	547	562	365	208	181	117	70	11	0	0	0	0	0	4028
12	0	0	0	0	0	1	80	233	351	510	524	380	433	523	309	240	106	41	39	?	0	0	0	0	3770
13	0	0	0	0	0	0	44	188	436	522	472	516	664	200	45	82	229	168	38	0	0	0	0	0	3605
14	0	0	0	0	0	0	52	243	428	598	602	395	405	170	7	14	20	25	14	0	0	0	0	0	2974
15	0	0	0	0	0	1	38	237	423	578	523	585	?	299	117	24	19	29	7	0	0	0	0	0	2880
16	0	0	0	0	0	1	63	257	377	486	560	?	?	418	341	156	109	24	0	0	0	0	0	0	2793
17	0	0	0	0	0	0	52	158	263	564	379	410	564	231	406	499	397	133	?	11	0	0	0	0	4067
18	0	0	0	0	0	0	27	62	315	422	297	139	118	333	288	223	99	64	14	0	0	0	0	0	2401
19	0	0	0	0	0	0	12	30	102	197	423	717	783	?	609	?	330	170	24	0	0	0	0	0	3397
20	0	0	0	0	0	0	18	51	53	48	15	20	66	175	352	441	299	177	38	0	0	0	0	0	1754
21	0	0	0	0	0	0	18	44	192	139	173	35	96	232	259	322	312	65	11	0	0	0	0	0	1899
22	0	0	0	0	0	0	59	123	386	452	375	333	439	162	88	213	221	68	16	0	0	0	0	0	2934
23	0	0	0	0	0	0	40	358	324	511	580	746	801	670	604	472	237	103	26	0	0	0	0	0	5473
24	0	0	0	0	0	0	42	196	379	463	666	791	577	738	648	463	312	132	?	21	0	0	0	0	5428
25	0	0	0	0	0	0	56	253	391	?	?	611	659	462	561	417	228	113	35	0	0	0	0	0	3785
26	0	0	0	0	0	0	39	127	323	392	462	651	703	570	464	419	331	173	19	0	0	0	0	0	4670
27	0	0	0	0	0	0	51	217	425	550	?	?	?	?	658	518	304	135	22	0	0	0	0	0	2878
28	0	0	0	0	0	0	51	225	420	373	471	654	624	769	654	561	391	174	10	0	0	0	0	0	5377
29	0	0	0	0	0	0	56	229	384	518	362	723	?	?	531	370	166	14	0	0	0	0	0	0	3354
30	0	0	0	0	0	0	27	223	394	?	?	?	?	?	523	93	24	2	0	0	0	0	0	0	1287
31	0	0	0	0	0	0	42	201	382	563	663	490	369	309	381	237	84	7	0	0	0	0	0	0	3728
Avg	0	0	0	0	0	1	48	190	341	441	450	467	451	362	341	292	201	100	21	0	0	0	0	0	3320
S D	0	0	0	0	0	1	17	83	107	143	168	208	206	184	187	172	111	50	10	0	0	0	0	0	1061
S/A	0	0	0	0	0	1.03	0.36	0.44	0.31	0.33	0.37	0.45	0.46	0.51	0.55	0.59	0.55	0.5	0.49	1.96	0	0	0	0	0.32
Min	0	0	0	0	0	0	12	30	53	48	15	20	66	80	7	14	5	7	2	0	0	0	0	0	1287
Max	0	0	0	0	0	3	80	358	474	598	666	791	801	769	658	561	397	177	39	1	0	0	0	0	5473

Daylight Data Recovery: 0% missing; 25% exceed the 15% QC threshold -- 4909 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