

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Bethune-Cookman College - May 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	3	99	310	536	654	377	650	1015	972	824	645	435	207	48	0	0	0	0	0	6776
2	0	0	0	0	0	3	93	293	520	559	910	1000	1025	977	856	689	471	233	43	0	0	0	0	0	7672
3	0	0	0	0	0	5	81	303	506	645	781	951	998	955	825	666	407	195	41	0	0	0	0	0	7359
4	0	0	0	0	0	3	91	305	532	729	874	956	1017	837	690	459	268	157	43	0	0	0	0	0	6962
5	0	0	0	0	0	5	107	321	449	639	902	1004	1017	978	847	684	463	226	50	0	0	0	0	0	7690
6	0	0	0	0	0	4	104	314	543	736	894	993	1031	946	739	694	463	243	52	0	0	0	0	0	7755
7	0	0	0	0	0	5	118	328	557	753	914	1016	1044	994	867	705	489	254	57	0	0	0	0	0	8103
8	0	0	0	0	0	6	121	336	565	754	912	1016	1043	985	857	695	478	247	56	0	0	0	0	0	8070
9	0	0	0	0	0	5	105	293	518	659	679	556	814	980	777	345	342	294	44	0	0	0	0	0	6411
10	0	0	0	0	0	6	112	315	534	615	722	904	949	852	530	433	401	230	54	0	0	0	0	0	6656
11	0	0	0	0	0	4	55	196	546	732	886	985	1039	963	831	672	459	237	55	0	0	0	0	0	7658
12	0	0	0	0	0	6	113	321	544	726	873	973	1009	955	830	667	454	228	53	0	0	0	0	0	7752
13	0	0	0	0	0	6	113	300	393	708	821	969	1017	960	834	675	461	242	53	0	0	0	0	0	7554
14	0	0	0	0	0	11	124	327	516	655	834	990	1018	869	631	445	264	188	11	0	0	0	0	0	6884
15	0	0	0	0	0	6	119	321	521	703	825	809	889	903	826	656	442	229	56	0	0	0	0	0	7106
16	0	0	0	0	0	7	118	297	540	729	877	984	1001	968	856	678	445	245	61	0	0	0	0	0	7805
17	0	0	0	0	0	8	126	319	537	727	892	969	995	946	847	673	463	246	69	1	0	0	0	0	7820
18	0	0	0	0	0	8	124	338	561	618	856	992	1001	774	622	410	296	195	62	1	0	0	0	0	6859
19	0	0	0	0	0	7	122	311	554	726	882	979	1034	961	764	686	365	215	81	1	0	0	0	0	7688
20	0	0	0	0	0	10	143	344	566	757	909	1006	1034	977	864	702	486	262	68	1	0	0	0	0	8129
21	0	0	0	0	0	7	118	273	546	737	909	916	940	969	844	656	253	100	34	0	0	0	0	0	7301
22	0	0	0	0	0	5	90	256	518	708	806	855	727	845	523	144	221	175	76	0	0	0	0	0	5950
23	0	0	0	0	0	11	133	351	536	669	715	900	560	569	605	300	261	175	59	0	0	0	0	0	5844
24	0	0	0	0	0	11	138	270	444	664	775	949	896	781	761	601	401	250	62	1	0	0	0	0	7005
25	0	0	0	0	0	10	134	301	498	705	726	881	947	782	505	482	410	164	54	1	0	0	0	0	6598
26	0	0	0	0	0	10	142	330	561	744	898	846	886	674	697	676	390	212	34	1	0	0	0	0	7099
27	0	0	0	0	0	9	117	302	512	705	857	954	994	958	829	649	451	241	72	2	0	0	0	0	7653
28	0	0	0	0	0	10	133	348	563	749	912	999	964	970	688	457	464	291	74	1	0	0	0	0	7621
29	0	0	0	0	0	12	130	254	328	581	463	942	1012	608	762	589	329	123	57	1	0	0	0	0	6189
30	0	0	0	0	0	12	108	126	142	592	801	670	960	904	847	678	490	229	66	1	0	0	0	0	6625
31	0	0	0	0	0	10	110	298	488	658	733	618	287	326	156	152	214	221	56	2	0	0	0	0	4327

Avg	0	0	0	0	0	7	114	300	506	688	807	911	941	875	740	570	395	218	55	0	0	0	0	0	7126
S/D	0	0	0	0	0	3	19	44	84	55	128	123	157	150	152	160	86	42	14	1	0	0	0	0	801
S/A	0	0	0	0	0	0.39	0.16	0.15	0.17	0.08	0.16	0.13	0.17	0.17	0.21	0.28	0.22	0.19	0.25	1.08	0	0	0	0	0.11
Min	0	0	0	0	0	3	55	126	142	559	377	556	287	326	156	144	214	100	11	0	0	0	0	0	4327
Max	0	0	0	0	0	12	143	351	566	757	914	1016	1044	994	867	705	490	294	81	2	0	0	0	0	8129

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5058 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 - May 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	11	87	15	33	63	62	84	221	811	721	611	487	246	84	0	0	0	0	0	3537
2	0	0	0	0	0	9	55	29	51	50	17	25	432	891	867	821	708	476	109	0	0	0	0	0	4540
3	0	0	0	0	0	30	30	27	51	51	60	61	554	807	761	724	504	239	56	0	0	0	0	0	3955
4	0	0	0	0	0	13	55	18	30	13	26	57	646	580	505	303	166	186	58	0	0	0	0	0	2658
5	0	0	0	0	0	17	73	25	59	83	20	159	885	924	876	818	688	446	116	0	0	0	0	0	5189
6	0	0	0	0	0	16	102	13	24	6	19	317	886	697	518	715	603	470	131	0	0	0	0	0	4518
7	0	0	0	0	0	6	140	2	21	3	12	523	964	958	920	880	779	573	184	0	0	0	0	0	5964
8	0	0	0	0	0	7	139	2	18	1	21	687	960	941	899	851	740	530	155	0	0	0	0	0	5951
9	0	0	0	0	0	12	86	34	46	56	65	181	523	811	600	123	209	316	36	57	0	0	0	0	3153
10	0	0	0	0	0	25	107	13	38	49	141	698	705	574	269	261	385	380	106	6	0	0	0	0	3758
11	0	0	0	0	0	21	40	66	48	11	298	891	885	865	823	771	659	457	121	7	0	0	0	0	5963
12	0	0	0	0	0	15	108	8	30	16	444	868	887	881	831	760	637	397	96	1	0	0	0	0	5978
13	0	0	0	0	0	12	94	35	80	51	398	802	882	871	836	782	661	470	116	3	0	0	0	0	6093
14	0	0	0	0	0	25	120	23	64	75	658	873	849	630	407	314	93	120	7	2	0	0	0	0	4260
15	0	0	0	0	0	6	115	26	48	123	192	397	547	636	735	660	520	353	79	4	0	0	0	0	4441
16	0	0	0	0	0	10	89	36	40	226	774	812	778	783	773	694	555	427	122	1	0	0	0	0	6120
17	0	0	0	0	0	21	97	47	45	355	801	764	751	772	820	725	603	382	94	16	0	0	0	0	6293
18	0	0	0	0	0	15	27	22	65	192	702	860	783	390	260	122	81	56	56	1	0	0	0	0	3631
19	0	0	0	0	0	8	108	35	58	565	795	825	909	861	662	735	354	247	151	7	0	0	0	0	6320
20	0	0	0	0	0	8	137	21	94	765	888	936	939	903	864	813	697	509	160	11	0	0	0	0	7745
21	0	0	0	0	0	15	77	44	173	739	737	601	686	811	785	675	136	24	35	3	0	0	0	0	5542
22	0	0	0	0	0	13	51	70	179	641	569	468	351	539	288	26	82	108	125	5	0	0	0	0	3514
23	0	0	0	0	0	18	115	30	353	541	515	681	278	305	383	95	151	160	68	3	0	0	0	0	3696
24	0	0	0	0	0	28	121	53	197	491	569	708	568	474	591	540	439	398	112	5	0	0	0	0	5294
25	0	0	0	0	0	28	135	72	383	640	522	632	686	514	272	360	397	137	62	39	0	0	0	0	4880
26	0	0	0	0	0	12	170	145	683	817	873	703	687	426	534	654	277	224	29	21	0	0	0	0	6257
27	0	0	0	0	0	21	90	156	498	638	724	768	803	777	702	578	439	325	105	6	0	0	0	0	6629
28	0	0	0	0	0	9	150	375	757	838	864	819	763	812	534	328	477	484	181	10	0	0	0	0	7402
29	0	0	0	0	0	111	56	102	135	288	127	702	714	315	613	490	266	57	59	5	0	0	0	0	4041
30	0	0	0	0	0	32	98	31	34	255	405	237	560	653	700	656	629	263	63	7	0	0	0	0	4623
31	0	0	0	0	0	23	90	344	310	446	323	153	43	53	24	32	41	89	27	9	0	0	0	0	2008
Avg	0	0	0	0	0	19	96	62	150	293	407	558	681	686	625	546	434	308	94	7	0	0	0	0	4966
S D	0	0	0	0	0	18	35	86	191	285	312	294	227	219	228	264	225	158	45	12	0	0	0	0	1371
S/A	0	0	0	0	0	0.95	0.37	1.39	1.27	0.97	0.77	0.53	0.33	0.32	0.37	0.48	0.52	0.51	0.48	1.61	0	0	0	0	0.28
Min	0	0	0	0	0	6	27	2	18	1	12	25	43	53	24	26	41	24	7	0	0	0	0	0	2008
Max	0	0	0	0	0	111	170	375	757	838	888	936	964	958	920	880	779	573	184	57	0	0	0	0	7745

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5058 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 - May 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	3	87	259 ?	?	526 ?	323	538	575 ?	219	220	219	181	124	42	0	0	0	0	0	3315 ?
2	0	0	0	0	0	3	85	282	444 ?	357 ?	?	?	368 ?	148	129	115	101	78	28	0	0	0	0	0	2138 ?
3	0	0	0	0	0	4	77	285	473 ?	602	713	814 ?	416	204	187	158	143	114	36	0	0	0	0	0	4227 ?
4	0	0	0	0	0	3	82	289	402 ?	?	614 ?	744 ?	391	295	266	242	185	99	35	0	0	0	0	0	3646 ?
5	0	0	0	0	0	5	95	297 ?	380 ?	509 ?	?	567 ?	158	115	109	108	101	79	32	0	0	0	0	0	2555 ?
6	0	0	0	0	0	3	89	282 ?	?	?	?	443 ?	170	290	311	190	146	87	33	0	0	0	0	0	2045 ?
7	0	0	0	0	0	5	99	255 ?	?	?	?	314 ?	107	97	91	84	77	65	30	0	0	0	0	0	1223 ?
8	0	0	0	0	0	6	105	260 ?	?	?	?	299	108	103	97	94	85	70	32	0	0	0	0	0	1259 ?
9	0	0	0	0	0	5	92	273	483 ?	526 ?	534 ?	383	305	220	263	255	240	182	39	0	0	0	0	0	3799
10	0	0	0	0	0	5	95	310	493 ?	437 ?	480 ?	237	261	313	308	245	200	103	37	0	0	0	0	0	3523
11	0	0	0	0	0	3	48	169	385 ?	?	465 ?	132	175	150	132	124	106	81	35	0	0	0	0	0	2004
12	0	0	0	0	0	6	97	300	?	?	371 ?	141	142	126	123	126	111	91	37	0	0	0	0	0	1671 ?
13	0	0	0	0	0	6	98	286	326	602 ?	464	200	154	140	123	117	105	81	34	0	0	0	0	0	2735
14	0	0	0	0	0	10	105	297	420 ?	547 ?	244	152	186	276	288	213	216	148	10	0	0	0	0	0	3113
15	0	0	0	0	0	5	99	310	465 ?	578 ?	457	426	353	305	200	183	160	106	44	0	0	0	0	0	3693
16	0	0	0	0	0	7	102	282	435 ?	448 ?	190	203	237	230	197	179	146	96	40	0	0	0	0	0	2791
17	0	0	0	0	0	8	109	290	452 ?	381 ?	180	234	258	218	147	152	135	109	53	1	0	0	0	0	2724
18	0	0	0	0	0	7	118	315	402 ?	415	229	164	232	406	395	323	251	175	55	1	0	0	0	0	3489
19	0	0	0	0	0	7	103	244 ?	430 ?	287	174	183	140	146	193	160	163	132	56	1	0	0	0	0	2419
20	0	0	0	0	0	10	109	293 ?	451 ?	165	117	103	111	122	124	116	104	83	40	1	0	0	0	0	1948
21	0	0	0	0	0	6	103	255	422	166	253	337	266	200	170	167	171	92	29	0	0	0	0	0	2638
22	0	0	0	0	0	4	79	227	390	210	297	405	382	333	269	126	180	135	54	0	0	0	0	0	3090
23	0	0	0	0	0	10	113	348	298	250	253	241	285	276	271	229	182	116	49	0	0	0	0	0	2922
24	0	0	0	0	0	10	114	249	321	280	264	265	336	331	250	209	163	105	42	1	0	0	0	0	2940
25	0	0	0	0	0	9	107	270	260	204	261	270	292	278	218	185	112	44	1	0	0	0	0	0	2779
26	0	0	0	0	0	9	109	264	140	112	116	168	208	268	244	199	233	133	29	1	0	0	0	0	2233
27	0	0	0	0	0	8	97	231	204	211	209	210	201	219	223	227	209	123	53	1	0	0	0	0	2427
28	0	0	0	0	0	9	104	179	99	100	138	206	211	196	229	212	196	115	41	1	0	0	0	0	2036
29	0	0	0	0	0	10	117	211	240	358	350	261	306	309	233	232	175	102	46	1	0	0	0	0	2951
30	0	0	0	0	0	10	88	114	120	396	441	438	406	283	240	199	138	130	53	1	0	0	0	0	3057
31	0	0	0	0	0	9	88	151	295	318	438	470	244	275	135	129	190	190	52	2	0	0	0	0	2986
Avg	0	0	0	0	0	7	97	261	355	359	330	318	257	229	208	179	161	111	40	0	0	0	0	0	2722
S D	0	0	0	0	0	3	14	50	114	154	154	173	107	79	73	56	46	31	10	0	0	0	0	0	713
S/A	0	0	0	0	0	0.39	0.14	0.19	0.32	0.43	0.47	0.54	0.42	0.35	0.35	0.31	0.29	0.28	0.25	1.16	0	0	0	0	0.26
Min	0	0	0	0	0	3	48	114	99	100	116	103	107	97	91	84	77	65	10	0	0	0	0	0	1223
Max	0	0	0	0	0	10	118	348	493	602	713	814	575	406	395	323	251	190	56	2	0	0	0	0	4227

Daylight Data Recovery: 0% missing; 10% exceed the 15% QC threshold -- 5058 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