

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - September 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	47	220	441	634	768	886	768	550	547	349	265	95	6	0	0	0	0	0	5575
2	0	0	0	0	0	0	18	117	164	97	178	207	143	88	97	85	91	34	4	0	0	0	0	0	1322
3	0	0	0	0	0	0	21	150	143	300	534	202	410	148	421	352	97	51	6	0	0	0	0	0	2838
4	0	0	0	0	0	0	38	246	462	570	875	990	814	927	746	623	311	146	14	0	0	0	0	0	6762
5	0	0	0	0	0	0	26	176	377	278	746	736	799	918	567	333	273	44	3	0	0	0	0	0	5277
6	0	0	0	0	0	0	43	80	84	269	534	264	351	708	646	304	162	52	4	0	0	0	0	0	3501
7	0	0	0	0	0	0	48	214	343	395	524	607	327	298	219	147	59	32	5	0	0	0	0	0	3219
8	0	0	0	0	0	0	40	157	411	538	623	558	576	447	169	65	56	40	7	0	0	0	0	0	3686
9	0	0	0	0	0	0	28	93	152	321	572	617	625	516	513	329	118	47	4	0	0	0	0	0	3936
10	0	0	0	0	0	0	12	115	139	232	279	194	220	256	316	191	151	70	4	0	0	0	0	0	2179
11	0	0	0	0	0	0	17	117	275	420	441	509	574	603	525	556	219	81	5	0	0	0	0	0	4342
12	0	0	0	0	0	0	30	135	246	398	721	752	880	608	720	535	336	107	6	0	0	0	0	0	5474
13	0	0	0	0	0	0	42	242	426	486	704	662	452	501	640	313	244	119	8	0	0	0	0	0	4839
14	0	0	0	0	0	0	44	231	458	660	728	770	666	791	757	559	354	129	8	0	0	0	0	0	6156
15	0	0	0	0	0	0	45	234	411	607	769	827	709	420	740	570	340	93	8	0	0	0	0	0	5771
16	0	0	0	0	0	0	40	64	150	201	118	284	483	367	348	390	146	52	2	0	0	0	0	0	2645
17	0	0	0	0	0	0	22	83	230	224	410	581	679	153	66	60	10	6	1	0	0	0	0	0	2524
18	0	0	0	0	0	0	27	119	358	401	469	548	701	402	113	68	14	27	7	0	0	0	0	0	3255
19	0	0	0	0	0	0	25	189	386	582	748	553	606	677	290	24	41	41	1	0	0	0	0	0	4165
20	0	0	0	0	0	0	32	112	198	309	134	142	237	440	240	135	118	23	1	0	0	0	0	0	2120
21	0	0	0	0	0	0	21	103	378	419	588	748	633	749	699	347	131	22	0	0	0	0	0	0	4839
22	0	0	0	0	0	0	38	126	240	462	671	719	197	139	103	113	117	52	2	0	0	0	0	0	2978
23	0	0	0	0	0	0	18	157	441	618	755	863	908	865	158	37	7	7	0	0	0	0	0	0	4836
24	0	0	0	0	0	0	5	19	52	107	58	150	187	193	193	58	54	18	2	0	0	0	0	0	1095
25	0	0	0	0	0	0	32	195	398	565	581	739	448	442	558	450	176	49	1	0	0	0	0	0	4632
26	0	0	0	0	0	0	24	149	381	627	705	512	220	335	475	352	277	35	1	0	0	0	0	0	4092
27	0	0	0	0	0	0	30	172	300	474	628	755	701	702	476	457	227	67	1	0	0	0	0	0	4991
28	0	0	0	0	0	0	30	250	439	638	369	655	826	787	693	430	307	90	1	0	0	0	0	0	5518
29	0	0	0	0	0	0	30	196	390	606	739	709	750	675	371	418	232	56	1	0	0	0	0	0	5175
30	0	0	0	0	0	0	30	202	388	610	782	846	772	660	211	279	36	15	1	0	0	0	0	0	4832
Avg	0	0	0	0	0	0	30	155	309	435	558	586	555	512	421	298	166	57	4	0	0	0	0	0	4086
S D	0	0	0	0	0	0	11	59	122	166	218	238	229	240	224	181	108	36	3	0	0	0	0	0	1413
S/A	0	0	0	0	0	0	0.35	0.38	0.4	0.38	0.39	0.41	0.41	0.47	0.53	0.61	0.65	0.63	0.82	0	0	0	0	0	0.35
Min	0	0	0	0	0	0	5	19	52	97	58	142	143	88	66	24	7	6	0	0	0	0	0	0	1095
Max	0	0	0	0	0	0	48	250	462	660	875	990	908	927	757	623	354	146	14	0	0	0	0	0	6762

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4453 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 - September 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	207	20	27	42	46	54	69	77	75	63	63	35	7	0	0	0	0	0	785
2	0	0	0	0	0	0	23	50	45	21	31	34	22	14	19	19	27	19	8	0	0	0	0	0	332
3	0	0	0	0	0	0	20	60	37	61	64	31	50	23	60	50	28	26	11	0	0	0	0	0	521
4	0	0	0	0	0	0	37	63	77	47	18	44	56	42	59	46	57	47	36	0	0	0	0	0	630
5	0	0	0	0	0	0	33	48	56	51	59	70	67	66	57	49	26	14	18	0	0	0	0	0	615
6	0	0	0	0	0	0	42	40	25	47	76	41	49	83	77	63	48	28	10	0	0	0	0	0	629
7	0	0	0	0	0	0	37	20	82	77	83	81	48	47	40	34	16	18	17	0	0	0	0	0	601
8	0	0	0	0	0	0	61	47	46	72	75	73	71	64	21	14	19	21	26	0	0	0	0	0	611
9	0	0	0	0	0	0	42	43	40	66	79	86	82	79	82	70	37	28	6	0	0	0	0	0	739
10	0	0	0	0	0	0	20	50	40	48	50	31	35	42	57	41	47	42	7	0	0	0	0	0	510
11	0	0	0	0	0	0	20	50	56	67	70	75	78	72	72	74	68	53	5	0	0	0	0	0	760
12	0	0	0	0	0	0	53	58	65	69	54	61	47	71	65	45	46	49	14	0	0	0	0	0	696
13	0	0	0	0	0	0	39	24	27	49	54	79	64	59	56	39	60	43	21	0	0	0	0	0	613
14	0	0	0	0	0	0	28	26	24	14	51	49	46	44	25	31	46	33	10	0	0	0	0	0	427
15	0	0	0	0	0	0	28	28	44	42	39	37	46	50	27	29	50	45	18	0	0	0	0	0	484
16	0	0	0	0	0	0	69	32	41	44	22	47	77	60	64	79	43	30	2	0	0	0	0	0	610
17	0	0	0	0	0	0	26	40	66	49	77	57	63	19	12	13	3	3	3	0	0	0	0	0	430
18	0	0	0	0	0	0	46	54	85	69	76	85	71	59	18	14	5	19	27	0	0	0	0	0	628
19	0	0	0	0	0	0	15	14	13	54	31	48	51	61	51	4	16	25	6	0	0	0	0	0	390
20	0	0	0	0	0	0	32	45	46	60	16	24	38	69	44	31	41	12	2	0	0	0	0	0	459
21	0	0	0	0	0	0	77	52	110	50	52	40	45	47	32	48	23	6	3	0	0	0	0	0	586
22	0	0	0	0	0	0	31	50	65	68	40	50	14	14	7	28	42	35	3	0	0	0	0	0	447
23	0	0	0	0	0	0	26	48	58	30	10	24	39	55	27	4	2	4	0	0	0	0	0	0	328
24	0	0	0	0	0	0	17	8	15	23	8	24	30	33	37	9	19	9	6	0	0	0	0	0	238
25	0	0	0	0	0	0	31	48	44	58	60	51	56	58	61	52	52	37	2	0	0	0	0	0	612
26	0	0	0	0	0	0	39	56	31	34	31	50	26	57	66	49	57	9	2	0	0	0	0	0	509
27	0	0	0	0	0	0	53	69	60	63	55	44	57	56	62	56	66	52	5	0	0	0	0	0	698
28	0	0	0	0	0	0	22	157	56	33	32	34	32	35	30	46	57	51	13	0	0	0	0	0	600
29	0	0	0	0	0	0	36	25	16	24	16	27	43	48	51	58	60	41	2	0	0	0	0	0	448
30	0	0	0	0	0	0	24	15	44	48	43	51	60	58	41	49	12	15	3	0	0	0	0	0	463
Avg	0	0	0	0	0	0	41	45	48	49	47	50	51	52	47	40	38	28	10	0	0	0	0	0	547
S D	0	0	0	0	0	0	34	26	22	16	22	18	17	18	21	20	20	15	9	0	0	0	0	0	131
S/A	0	0	0	0	0	0	0.83	0.59	0.46	0.33	0.46	0.37	0.33	0.35	0.44	0.5	0.52	0.54	0.89	0	0	0	0	0	0.24
Min	0	0	0	0	0	0	15	8	13	14	8	24	14	14	7	4	2	3	0	0	0	0	0	0	238
Max	0	0	0	0	0	0	207	157	110	77	83	86	82	83	82	79	68	53	36	0	0	0	0	0	785

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 94633 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: XXXXXXX
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 - September 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	44	214	426	526 ?	598 ?	801 ?	577 ?	481	466	306	227	84	6	0	0	0	0	0	4757 ?	
2	0	0	0	0	0	0	15	100	141	82	153	176	122	75	82	72	78	29	4	0	0	0	0	0	1129	
3	0	0	0	0	0	0	18	132	125	258	372 ?	174	269	127	298	243	84	44	5	0	0	0	0	0	2149	
4	0	0	0	0	0	0	35	182 ?	401 ?	417 ?	?	796 ?	611 ?	?	620 ?	503 ?	284	132	13	0	0	0	0	0	3994 ?	
5	0	0	0	0	0	0	23	147	329	243	550 ?	538 ?	673 ?	689 ?	505	269	153 ?	41	3	0	0	0	0	0	4165 ?	
6	0	0	0	0	0	0	42	68	72	236	449	227	306	595	457 ?	264	140	45	4	0	0	0	0	0	2902	
7	0	0	0	0	0	0	44	166 ?	261	342	456	534	283	256	187	125	52	28	4	0	0	0	0	0	2739	
8	0	0	0	0	0	0	38	143	388	479	486 ?	493	511	391	152	56	47	35	6	0	0	0	0	0	3224	
9	0	0	0	0	0	0	24	80	131	276	508	541	550	446	449	283	101	40	4	0	0	0	0	0	3435	
10	0	0	0	0	0	0	11	99	120	199	239	166	188	220	271	164	130	59	3	0	0	0	0	0	1869	
11	0	0	0	0	0	0	15	102	247	375	385	442	503	540	469	477 ?	188	69	5	0	0	0	0	0	3816	
12	0	0	0	0	0	0	29	117	214	351	577 ?	641 ?	720 ?	547	612 ?	494 ?	316	95	6	0	0	0	0	0	4720	
13	0	0	0	0	0	0	43	199 ?	371 ?	363 ?	520 ?	576	394	450	463 ?	263	218	109	6	0	0	0	0	0	3976 ?	
14	0	0	0	0	0	0	42	222	366 ?	?	584 ?	552 ?	499 ?	500 ?	?	476 ?	335	121	8	0	0	0	0	0	3706 ?	
15	0	0	0	0	0	0	43	225	365	482 ?	557 ?	658 ?	532 ?	300	624 ?	468 ?	318	83	7	0	0	0	0	0	4663 ?	
16	0	0	0	0	0	0	38	56	129	173	101	243	414	315	300	342	128	45	2	0	0	0	0	0	2284	
17	0	0	0	0	0	0	19	72	197	191	315	389 ?	375 ?	137	57	51	8	5	1	0	0	0	0	0	1819	
18	0	0	0	0	0	0	26	103	285	325	409	475	583	352	100	59	12	23	6	0	0	0	0	0	2758	
19	0	0	0	0	0	0	27	170	382	458 ?	571 ?	511	537	477 ?	252	22	35	36	1	0	0	0	0	0	3480	
20	0	0	0	0	0	0	33	99	175	271	122	121	203	382	207	117	101	21	1	0	0	0	0	0	1852	
21	0	0	0	0	0	0	19	88	243 ?	367	403 ?	545 ?	506 ?	574 ?	395 ?	261	122	21	0	0	0	0	0	0	3544 ?	
22	0	0	0	0	0	0	35	112	208	418	555 ?	596 ?	184	127	98	97	100	45	2	0	0	0	0	0	2578	
23	0	0	0	0	0	0	16	133	280 ?	568 ?	?	?	?	?	138	35	6	6	0	0	0	0	0	0	1182 ?	
24	0	0	0	0	0	0	5	16	45	92	52	129	161	166	166	53	47	16	1	0	0	0	0	0	949	
25	0	0	0	0	0	0	30	181	377	456 ?	466 ?	591 ?	399	394	483	420	155	42	1	0	0	0	0	0	3996	
26	0	0	0	0	0	0	22	134	366	?	635 ?	375 ?	198	288	427	301	242	33	1	0	0	0	0	0	3022	
27	0	0	0	0	0	0	29	153	272	420	575	531 ?	583 ?	620 ?	432	376 ?	203	58	1	0	0	0	0	0	4254	
28	0	0	0	0	0	0	32	139 ?	313 ?	303 ?	295	484 ?	672 ?	?	?	353 ?	204 ?	81	1	0	0	0	0	0	2875 ?	
29	0	0	0	0	0	0	29	189	348 ?	568 ?	598 ?	512 ?	571 ?	495 ?	335	355	210	50	1	0	0	0	0	0	4263 ?	
30	0	0	0	0	0	0	31	168 ?	290 ?	484 ?	588 ?	652 ?	623 ?	446 ?	182	219	32	13	1	0	0	0	0	0	3729 ?	
Avg	0	0	0	0	0	0	29	134	262	347	433	464	440	385	330	251	143	50	3	0	0	0	0	0	3128	
S D	0	0	0	0	0	0	11	51	106	131	166	187	174	165	171	153	95	33	3	0	0	0	0	0	1077	
S/A	0	0	0	0	0	0	0.37	0.38	0.41	0.38	0.38	0.4	0.4	0.43	0.52	0.61	0.67	0.65	0.83	0	0	0	0	0	0	0.34
Min	0	0	0	0	0	0	5	16	45	82	52	121	122	75	57	22	6	5	0	0	0	0	0	0	949	
Max	0	0	0	0	0	0	44	225	426	568	635	801	720	689	624	503	335	132	13	0	0	0	0	0	4757	

Daylight Data Recovery: 0% missing; 16% exceed the 15% QC threshold -- 4453 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