

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - April 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	0	32	207	432	650	816	359	738	828	510	521	278	78	15	0	0	0	0	0	5464
2	0	0	0	0	0	0	13	180	421	639	812	872	900	903	806	559	353	98	33	0	0	0	0	0	6590
3	0	0	0	0	0	0	22	210	424	676	825	863	881	799	754	565	297	161	24	0	0	0	0	0	6500
4	0	0	0	0	0	0	21	212	412	531	503	162	140	132	437	320	141	97	24	0	0	0	0	0	3132
5	0	0	0	0	0	0	45	244	488	734	947	1017	1078	1049	902	694	454	204	26	0	0	0	0	0	7883
6	0	0	0	0	0	0	52	271	508	746	940	967	954	995	877	677	444	201	28	0	0	0	0	0	7660
7	0	0	0	0	0	0	51	247	478	706	898	960	963	977	803	511	304	175	31	0	0	0	0	0	7104
8	0	0	0	0	0	0	40	265	462	684	861	949	891	767	724	550	356	181	23	0	0	0	0	0	6752
9	0	0	0	0	0	0	48	258	501	659	902	1004	1066	1026	882	684	449	207	27	0	0	0	0	0	7711
10	0	0	0	0	0	0	61	258	479	718	921	892	984	991	837	676	423	199	27	0	0	0	0	0	7467
11	0	0	0	0	0	0	54	253	390	476	894	958	987	899	761	631	369	147	26	0	0	0	0	0	6844
12	0	0	0	0	0	0	36	165	443	674	845	880	957	690	381	265	322	75	9	0	0	0	0	0	5743
13	0	0	0	0	0	0	28	150	331	518	700	770	702	680	302	482	129	41	9	0	0	0	0	0	4844
14	0	0	0	0	0	0	7	21	59	96	114	160	209	311	276	187	77	49	10	0	0	0	0	0	1575
15	0	0	0	0	0	0	26	71	388	527	767	913	609	681	414	213	96	46	43	0	0	0	0	0	4794
16	0	0	0	0	0	0	44	186	451	644	796	957	976	943	699	368	225	157	21	0	0	0	0	0	6466
17	0	0	0	0	0	0	66	276	546	712	885	973	1010	949	831	648	450	213	33	0	0	0	0	0	7591
18	0	0	0	0	0	0	66	273	514	723	883	976	1011	972	849	666	445	212	32	0	0	0	0	0	7621
19	0	0	0	0	0	0	69	275	504	709	877	970	1003	960	841	666	442	201	33	0	0	0	0	0	7550
20	0	0	0	0	0	1	76	295	503	714	878	970	1001	967	846	672	460	164	55	0	0	0	0	0	7600
21	0	0	0	0	0	0	75	269	494	705	871	912	998	949	830	655	406	207	35	0	0	0	0	0	7406
22	0	0	0	0	0	0	73	273	494	719	894	997	1024	987	863	688	469	228	36	0	0	0	0	0	7742
23	0	0	0	0	0	1	95	302	512	720	869	975	934	956	823	499	209	44	10	0	0	0	0	0	6949
24	0	0	0	0	0	1	80	294	489	701	821	793	800	652	470	494	264	111	11	0	0	0	0	0	5980
25	0	0	0	0	0	1	69	268	427	730	900	988	1018	988	868	693	470	232	41	0	0	0	0	0	7693
26	0	0	0	0	0	1	86	295	526	676	785	920	910	887	761	647	442	204	37	0	0	0	0	0	7179
27	0	0	0	0	0	2	100	299	523	728	892	997	1039	982	828	674	428	195	36	0	0	0	0	0	7722
28	0	0	0	0	0	2	86	287	500	313	320	346	375	659	577	508	288	160	35	0	0	0	0	0	4455
29	0	0	0	0	0	2	93	304	531	726	852	865	891	852	816	660	462	204	33	0	0	0	0	0	7291
30	0	0	0	0	0	3	97	303	527	726	890	989	1015	970	843	678	462	230	38	0	0	0	0	0	7770
Avg	0	0	0	0	0	0	57	240	459	643	805	845	869	847	714	558	347	157	28	0	0	0	0	0	6569
S D	0	0	0	0	0	1	26	67	89	139	179	241	236	205	188	148	120	62	11	0	0	0	0	0	1487
S/A	0	0	0	0	0	1.56	0.46	0.28	0.19	0.22	0.22	0.28	0.27	0.24	0.26	0.27	0.35	0.39	0.39	0	0	0	0	0	0.23
Min	0	0	0	0	0	0	7	21	59	96	114	160	140	132	276	187	77	41	9	0	0	0	0	0	1575
Max	0	0	0	0	0	3	100	304	546	746	947	1017	1078	1049	902	694	470	232	55	0	0	0	0	0	7883

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4632 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/W/m-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 - April 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	0	55	67	45	33	52	51	57	76	83	84	81	44	22	0	0	0	0	0	750
2	0	0	0	0	0	0	17	54	63	54	47	19	21	50	54	76	72	40	28	0	0	0	0	0	596
3	0	0	0	0	0	0	28	90	76	71	56	26	18	68	69	66	67	76	18	0	0	0	0	0	729
4	0	0	0	0	0	0	35	87	66	76	78	19	22	21	63	61	43	43	66	0	0	0	0	0	680
5	0	0	0	0	0	0	127	56	54	80	102	35	59	77	60	40	29	2	219	0	0	0	0	0	942
6	0	0	0	0	0	0	160	102	80	100	103	18	0	42	53	32	21	1	123	0	0	0	0	0	835
7	0	0	0	0	0	0	115	33	24	47	70	15	2	55	57	50	46	26	49	0	0	0	0	0	588
8	0	0	0	0	0	0	76	166	20	42	62	29	0	33	80	67	52	14	38	0	0	0	0	0	680
9	0	0	0	0	0	0	69	35	33	60	75	60	58	69	46	33	29	13	95	0	0	0	0	0	676
10	0	0	0	0	0	0	106	69	24	40	62	67	46	44	31	21	37	30	61	0	0	0	0	0	639
11	0	0	0	0	0	0	52	37	34	58	44	10	20	41	59	58	61	67	42	0	0	0	0	0	582
12	0	0	0	0	0	0	47	74	54	29	28	26	24	68	70	59	83	39	11	0	0	0	0	0	612
13	0	0	0	0	0	0	115	67	76	70	57	50	49	49	35	53	35	23	16	0	0	0	0	0	695
14	0	0	0	0	0	0	6	10	15	20	19	25	32	49	49	40	23	26	24	0	0	0	0	0	339
15	0	0	0	0	0	0	36	29	70	83	43	31	57	39	11	39	23	20	78	0	0	0	0	0	559
16	0	0	0	0	0	0	48	81	75	29	44	17	17	46	111	80	66	66	31	0	0	0	0	0	710
17	0	0	0	0	0	0	104	49	115	10	12	1	8	16	17	39	23	10	93	0	0	0	0	0	498
18	0	0	0	0	0	1	64	23	20	7	9	0	0	8	6	12	15	10	109	0	0	0	0	0	285
19	0	0	0	0	0	2	95	13	27	16	16	6	7	21	19	22	26	21	85	0	0	0	0	0	377
20	0	0	0	0	0	5	108	30	21	9	9	3	1	13	9	15	22	45	103	0	0	0	0	0	394
21	0	0	0	0	0	3	77	31	33	14	13	22	10	19	17	31	69	39	71	0	0	0	0	0	447
22	0	0	0	0	0	0	65	20	40	20	19	12	6	18	17	77	254	128	112	0	0	0	0	0	789
23	0	0	0	0	0	11	120	25	29	19	22	20	30	27	53	88	80	21	25	0	0	0	0	0	569
24	0	0	0	0	0	6	71	27	50	31	49	62	61	66	79	202	104	60	18	0	0	0	0	0	887
25	0	0	0	0	0	5	42	91	59	14	5	5	4	15	435	864	761	539	140	0	0	0	0	0	2979
26	0	0	0	0	0	10	82	28	41	34	37	40	37	75	460	654	546	322	60	0	0	0	0	0	2427
27	0	0	0	0	0	10	106	4	21	9	12	17	23	198	770	753	565	295	34	0	0	0	0	0	2817
28	0	0	0	0	0	25	69	34	51	58	54	52	52	116	200	303	157	125	59	0	0	0	0	0	1353
29	0	0	0	0	0	16	93	14	21	4	22	57	55	464	780	712	532	261	45	0	0	0	0	0	3079
30	0	0	0	0	0	12	96	13	25	10	13	23	77	808	832	796	697	479	85	0	0	0	0	0	3966
Avg	0	0	0	0	0	3	76	49	45	38	41	27	29	90	154	181	154	96	65	0	0	0	0	0	1049
S/D	0	0	0	0	0	6	35	35	24	26	27	19	23	157	238	265	217	137	45	0	0	0	0	0	941
S/A	0	0	0	0	0	1.7	0.46	0.72	0.52	0.69	0.66	0.7	0.8	1.75	1.54	1.46	1.41	1.43	0.69	0	0	0	0	0	0.9
Min	0	0	0	0	0	0	6	4	15	4	5	0	0	8	6	12	15	1	11	0	0	0	0	0	285
Max	0	0	0	0	0	25	160	166	115	100	103	67	77	808	832	864	761	539	219	0	0	0	0	0	3966

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4632 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 - April 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	0	28	189	394	?	665	?	314	528	?	685	?	444	377	?	239	66	13	0	0	0	3943	?		
2	0	0	0	0	0	0	12	165	391	519	?	?	?	?	?	?	442	?	319	88	30	0	0	0	0	1965	?			
3	0	0	0	0	0	0	19	178	363	576	?	774	?	752	?	774	?	724	656	?	511	247	141	22	0	0	0	5736	?	
4	0	0	0	0	0	0	18	188	360	467	?	441	?	146	?	121	?	113	387	?	281	120	86	18	0	0	0	2745	?	
5	0	0	0	0	0	0	36	209	?	?	?	?	?	?	?	?	?	?	?	?	?	187	14	0	0	0	0	446	?	
6	0	0	0	0	0	0	45	199	?	?	?	?	?	?	?	?	?	?	?	?	?	194	17	0	0	0	0	455	?	
7	0	0	0	0	0	0	42	238	362	?	?	?	?	?	?	?	?	598	?	426	?	282	169	26	0	0	0	2144	?	
8	0	0	0	0	0	0	29	233	378	?	?	752	?	?	654	?	540	?	427	?	458	?	330	178	19	0	0	0	3998	?
9	0	0	0	0	0	0	44	218	?	?	529	?	767	?	?	?	?	?	?	?	347	?	203	17	0	0	0	0	2124	?
10	0	0	0	0	0	0	57	237	365	?	?	?	?	721	?	754	?	?	604	?	?	348	?	179	21	0	0	0	3287	?
11	0	0	0	0	0	0	49	232	325	?	436	?	?	?	?	809	?	593	?	581	?	340	128	22	0	0	0	3514	?	
12	0	0	0	0	0	0	31	141	310	?	596	?	709	?	694	?	734	?	520	?	325	226	258	63	8	0	0	0	4616	?
13	0	0	0	0	0	0	24	129	291	413	419	?	677	516	?	507	?	223	374	?	112	35	8	0	0	0	0	3727	?	
14	0	0	0	0	0	0	7	18	50	82	98	137	179	267	236	159	65	42	8	0	0	0	0	0	0	0	1347	?		
15	0	0	0	0	0	0	22	61	334	400	559	?	691	?	415	?	417	?	178	?	183	83	40	42	0	0	0	0	3425	?
16	0	0	0	0	0	0	39	159	303	?	421	?	453	?	816	?	836	?	782	?	600	313	192	137	18	0	0	0	5069	?
17	0	0	0	0	0	0	55	260	325	?	?	?	?	?	?	835	?	605	?	489	?	372	?	212	22	0	0	0	3175	?
18	0	0	0	0	0	0	58	259	392	?	?	?	?	?	?	?	?	?	?	?	372	?	212	19	0	0	0	0	1313	?
19	0	0	0	0	0	0	60	270	406	?	?	?	?	?	?	?	?	?	?	?	367	?	195	22	0	0	0	0	1320	?
20	0	0	0	0	0	0	65	275	?	412	?	?	?	?	?	?	?	?	?	?	367	?	152	42	0	0	0	0	1313	?
21	0	0	0	0	0	0	65	258	428	?	?	?	749	?	?	823	?	?	?	?	356	196	25	0	0	0	0	0	2902	?
22	0	0	0	0	0	0	65	265	418	?	?	?	?	?	?	?	?	?	537	?	342	188	21	0	0	0	0	0	1836	?
23	0	0	0	0	0	1	81	306	397	?	628	?	742	?	?	521	?	?	526	?	409	166	38	9	0	0	0	0	3825	?
24	0	0	0	0	0	1	71	275	442	?	?	762	?	714	?	703	?	560	405	355	213	91	10	0	0	0	0	4601	?	
25	0	0	0	0	0	1	62	237	373	?	?	?	?	?	?	?	407	?	97	81	64	23	0	0	0	0	0	1345	?	
26	0	0	0	0	0	1	75	285	422	?	468	?	641	?	758	?	631	?	692	?	381	196	161	101	29	0	0	0	4843	?
27	0	0	0	0	0	2	87	303	425	?	?	?	?	?	?	595	?	188	153	137	93	32	0	0	0	0	0	2015	?	
28	0	0	0	0	0	2	76	274	418	?	271	?	273	298	325	552	416	295	208	121	30	0	0	0	0	0	0	3558	?	
29	0	0	0	0	0	2	81	298	419	?	?	734	?	722	?	596	?	315	166	164	187	120	26	0	0	0	0	0	3830	?
30	0	0	0	0	0	3	84	298	448	?	?	?	?	741	?	222	147	124	101	76	27	0	0	0	0	0	0	2270	?	
Avg	0	0	0	0	0	0	50	222	369	447	586	585	564	553	405	325	240	127	21	0	0	0	0	0	0	0	0	2890		
S/D	0	0	0	0	0	1	23	69	76	139	200	235	206	211	163	143	104	58	9	0	0	0	0	0	0	0	0	1380		
S/A	0	0	0	0	0	1.56	0.46	0.31	0.21	0.31	0.34	0.4	0.36	0.38	0.4	0.44	0.43	0.46	0.41	0	0	0	0	0	0	0	0	0.48		
Min	0	0	0	0	0	0	7	18	50	82	98	137	121	113	147	97	65	35	8	0	0	0	0	0	0	0	0	446		
Max	0	0	0	0	0	3	87	306	448	628	774	816	836	835	656	581	372	212	42	0	0	0	0	0	0	0	0	5736		

Daylight Data Recovery: 0% missing; 42% exceed the 15% QC threshold -- 4632 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