

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - June 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	12	115	229	587	770	908	995	1028	981	871	711	491	265	79	3	0	0	0	0	8047
2	0	0	0	0	0	9	134	359	385	795	936	1004	1042	997	889	727	516	291	87	2	0	0	0	0	8174
3	0	0	0	0	0	13	137	336	549	740	880	968	1004	958	851	672	377	254	62	0	0	0	0	0	7802
4	0	0	0	0	0	13	131	317	522	706	853	946	984	878	421	144	93	109	42	1	0	0	0	0	6160
5	0	0	0	0	0	12	130	327	534	729	835	916	963	658	786	596	509	277	56	2	0	0	0	0	7329
6	0	0	0	0	0	11	138	332	494	653	491	432	711	515	437	144	484	273	66	1	0	0	0	0	5179
7	0	0	0	0	0	10	126	336	341	516	833	669	689	678	786	571	295	225	60	3	0	0	0	0	6138
8	0	0	0	0	0	13	131	339	551	748	905	998	1028	845	691	709	496	277	98	4	0	0	0	0	7835
9	0	0	0	0	0	11	129	344	541	749	933	1000	938	795	813	569	515	258	77	4	0	0	0	0	7674
10	0	0	0	0	0	13	133	272	513	636	698	999	869	646	774	573	434	248	57	3	0	0	0	0	6870
11	0	0	0	0	0	2	121	175	190	554	390	402	542	852	793	540	284	125	54	5	0	0	0	0	5029
12	0	0	0	0	0	4	131	207	546	700	607	263	697	516	325	270	273	193	51	2	0	0	0	0	4787
13	0	0	0	0	0	11	142	337	530	699	905	980	1012	974	590	675	398	67	31	0	0	0	0	0	7352
14	0	0	0	0	0	9	94	349	551	659	910	989	1017	973	865	720	506	243	73	2	0	0	0	0	7960
15	0	0	0	0	0	10	111	332	546	717	795	977	959	942	870	710	517	180	55	2	0	0	0	0	7725
16	0	0	0	0	0	7	135	305	488	691	786	756	540	637	899	721	529	304	81	3	0	0	0	0	6882
17	0	0	0	0	0	10	128	278	325	617	915	535	1042	819	813	704	502	300	89	2	0	0	0	0	7080
18	0	0	0	0	0	11	138	348	556	756	905	983	1027	973	867	738	507	254	45	4	0	0	0	0	8111
19	0	0	0	0	0	11	156	334	367	646	920	987	1029	991	870	725	521	291	98	1	0	0	0	0	7949
20	0	0	0	0	0	12	137	324	526	731	909	964	1007	978	884	730	525	291	48	3	0	0	0	0	8069
21	0	0	0	0	0	10	133	310	505	710	885	980	1014	971	859	705	492	226	77	3	0	0	0	0	7881
22	0	0	0	0	0	8	114	350	502	634	841	657	145	69	104	162	183	112	58	3	0	0	0	0	3943
23	0	0	0	0	0	6	79	148	176	226	548	674	761	262	128	18	27	18	18	1	0	0	0	0	3091
24	0	0	0	0	0	6	99	288	547	579	551	957	1040	752	846	178	205	46	19	2	0	0	0	0	6114
25	0	0	0	0	0	10	119	324	520	728	876	977	1011	1020	578	198	297	324	87	5	0	0	0	0	7075
26	0	0	0	0	0	6	44	113	207	343	611	759	491	82	228	164	138	89	31	3	0	0	0	0	3308
27	0	0	0	0	0	16	138	335	538	752	877	573	177	82	108	177	215	169	66	5	0	0	0	0	4226
28	0	0	0	0	0	9	123	207	413	503	682	516	839	353	528	708	495	57	11	1	0	0	0	0	5446
29	0	0	0	0	0	8	104	328	461	691	812	803	818	48	126	190	107	45	22	1	0	0	0	0	4564
30	0	0	0	0	0	11	161	306	94	128	328	309	161	235	210	192	214	98	33	3	0	0	0	0	2485
Avg	0	0	0	0	0	10	124	296	453	637	778	799	820	683	627	488	371	197	58	2	0	0	0	0	6343
S D	0	0	0	0	0	3	22	64	131	155	169	233	273	324	282	252	158	93	24	1	0	0	0	0	1694
S/A	0	0	0	0	0	0.29	0.18	0.22	0.29	0.24	0.22	0.29	0.33	0.47	0.45	0.52	0.42	0.47	0.41	0.53	0	0	0	0	0.27
Min	0	0	0	0	0	2	44	113	94	128	328	263	145	48	104	18	27	18	11	0	0	0	0	0	2485
Max	0	0	0	0	0	16	161	359	587	795	936	1004	1042	1020	899	738	529	324	98	5	0	0	0	0	8174

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5030 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 - June 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	19	212	209	653	854	901	923	943	931	901	849	700	511	152	8	0	0	0	0	8768
2	0	0	0	0	0	23	261	640	328	781	884	929	957	948	921	879	779	603	243	4	0	0	0	0	9180
3	0	0	0	0	0	22	280	547	706	801	837	855	858	850	811	678	339	347	91	3	0	0	0	0	8024
4	0	0	0	0	0	22	174	402	569	659	711	725	728	586	215	24	18	40	32	17	0	0	0	0	4922
5	0	0	0	0	0	18	252	487	611	716	682	671	678	383	589	500	633	461	92	5	0	0	0	0	6778
6	0	0	0	0	0	24	285	493	416	459	234	122	248	221	129	28	531	462	92	11	0	0	0	0	3756
7	0	0	0	0	0	19	204	395	125	189	521	186	247	297	545	365	114	200	41	10	0	0	0	0	3460
8	0	0	0	0	0	27	226	518	666	769	819	843	849	585	327	669	558	421	152	17	0	0	0	0	7446
9	0	0	0	0	0	10	253	569	637	747	876	878	716	610	651	470	717	388	112	12	0	0	0	0	7645
10	0	0	0	0	0	48	327	350	547	498	454	783	452	147	446	225	332	296	50	15	0	0	0	0	4969
11	0	0	0	0	0	2	148	71	82	263	42	99	169	552	583	327	59	40	41	24	0	0	0	0	2503
12	0	0	0	0	0	3	86	96	502	637	326	43	269	144	33	55	29	91	43	1	0	0	0	0	2357
13	0	0	0	0	0	26	322	592	660	703	809	886	901	897	506	725	508	17	19	2	0	0	0	0	7575
14	0	0	0	0	0	23	183	628	710	656	884	909	917	903	858	812	679	333	52	6	0	0	0	0	8552
15	0	0	0	0	0	33	180	488	678	710	661	810	731	787	795	775	678	183	39	28	0	0	0	0	7577
16	0	0	0	0	0	16	278	473	582	601	519	460	191	409	864	772	726	515	97	17	0	0	0	0	6521
17	0	0	0	0	0	18	308	447	213	455	784	196	786	605	615	676	634	525	107	10	0	0	0	0	6378
18	0	0	0	0	0	28	354	622	741	824	868	878	926	896	862	847	652	324	22	11	0	0	0	0	8854
19	0	0	0	0	0	39	441	603	387	522	886	899	922	915	857	831	719	530	219	8	0	0	0	0	8779
20	0	0	0	0	0	35	350	554	707	710	879	858	894	906	894	841	747	527	59	8	0	0	0	0	8968
21	0	0	0	0	0	19	196	447	579	677	732	854	872	872	809	740	559	205	76	9	0	0	0	0	7646
22	0	0	0	0	0	16	124	487	620	518	715	399	14	9	15	26	31	91	78	10	0	0	0	0	3153
23	0	0	0	0	0	11	49	42	38	44	91	191	307	80	13	1	2	7	13	2	0	0	0	0	892
24	0	0	0	0	0	13	95	375	486	295	114	693	796	457	600	22	24	17	7	5	0	0	0	0	4000
25	0	0	0	0	0	21	256	512	633	766	828	854	871	848	403	37	161	319	126	18	0	0	0	0	6653
26	0	0	0	0	0	51	26	37	48	41	149	245	233	13	39	32	35	35	18	5	0	0	0	0	1006
27	0	0	0	0	0	26	195	563	687	801	758	357	24	13	19	36	50	25	44	10	0	0	0	0	3607
28	0	0	0	0	0	22	82	52	112	75	439	237	598	114	273	704	583	19	8	4	0	0	0	0	3322
29	0	0	0	0	0	11	215	518	440	551	585	490	410	7	18	22	21	17	15	9	0	0	0	0	3328
30	0	0	0	0	0	15	230	249	17	23	42	47	19	36	32	36	50	33	23	7	0	0	0	0	860
Avg	0	0	0	0	0	22	220	416	473	545	601	577	584	501	488	433	389	253	72	10	0	0	0	0	5583
S D	0	0	0	0	0	11	95	188	234	255	286	318	323	346	329	343	295	202	59	6	0	0	0	0	2649
S/A	0	0	0	0	0	0.5	0.43	0.45	0.5	0.47	0.48	0.55	0.55	0.69	0.67	0.79	0.76	0.8	0.82	0.64	0	0	0	0	0.47
Min	0	0	0	0	0	2	26	37	17	23	42	43	14	7	13	1	2	7	7	1	0	0	0	0	860
Max	0	0	0	0	0	51	441	640	741	854	901	929	957	948	921	879	779	603	243	28	0	0	0	0	9180

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5030 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 (Shadow Band PSP)
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - June 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	11	72	165	183	108	101	100	95	93	90	88	93	75	48	2	0	0	0	0	1325
2	0	0	0	0	0	8	69	87	186	187	144	104	95	92	90	82	77	68	41	2	0	0	0	0	1331
3	0	0	0	0	0	11	71	102	115	119	130	140	155	146	146	171	191	125	43	0	0	0	0	0	1666
4	0	0	0	0	0	13	90	144	171	195	215	243	263	318	227	127	83	95	36	1	0	0	0	0	2222
5	0	0	0	0	0	11	71	118	158	174	225	265	292	293	270	237	151	105	37	2	0	0	0	0	2409
6	0	0	0	0	0	11	70	122	244	297	287	312	466	300	323	124	190	97	47	0	0	0	0	0	2888
7	0	0	0	0	0	9	79	166	261	369	366	489	445	394	313	297	227	154	53	2	0	0	0	0	3625
8	0	0	0	0	0	12	77	117	142	152	171	180	187	281	407	215	177	117	68	4	0	0	0	0	2304
9	0	0	0	0	0	10	67	103	152	170	148	148	227	216	240	224	107	102	56	4	0	0	0	0	1973
10	0	0	0	0	0	10	59	128	183	254	297	238	421	508	376	409	237	139	48	3	0	0	0	0	3309
11	0	0	0	0	0	2	90	146	136	359	352	308	375	325	285	290	250	110	48	5	0	0	0	0	3081
12	0	0	0	0	0	4	103	179	246	211	323	221	431	376	296	230	256	161	42	2	0	0	0	0	3080
13	0	0	0	0	0	11	61	85	129	153	179	120	119	113	137	140	93	62	27	0	0	0	0	0	1429
14	0	0	0	0	0	8	42	83	116	154	118	108	108	106	115	115	113	110	63	2	0	0	0	0	1361
15	0	0	0	0	0	10	64	124	130	169	202	191	234	187	176	132	125	100	48	2	0	0	0	0	1894
16	0	0	0	0	0	6	68	110	133	218	325	310	350	250	142	147	109	102	62	3	0	0	0	0	2335
17	0	0	0	0	0	9	55	92	195	257	216	344	262	236	276	200	134	95	63	2	0	0	0	0	2437
18	0	0	0	0	0	10	56	84	103	120	128	132	108	113	111	105	126	122	41	3	0	0	0	0	1362
19	0	0	0	0	0	9	56	79	128	235	127	115	114	112	118	104	102	86	50	1	0	0	0	0	1435
20	0	0	0	0	0	9	57	93	91	186	123	131	120	107	99	101	91	82	35	3	0	0	0	0	1328
21	0	0	0	0	0	9	84	121	150	189	230	152	149	133	148	151	164	154	60	3	0	0	0	0	1897
22	0	0	0	0	0	7	86	141	123	237	202	274	130	61	90	142	165	82	40	2	0	0	0	0	1785
23	0	0	0	0	0	5	68	130	153	192	466	488	456	184	116	17	26	16	16	1	0	0	0	0	2333
24	0	0	0	0	0	5	74	124	262	357	449	286	250	314	316	161	191	40	18	1	0	0	0	0	2848
25	0	0	0	0	0	9	58	111	135	139	137	150	147	204	212	171	210	204	59	4	0	0	0	0	1951
26	0	0	0	0	0	6	38	98	177	312	476	520	260	69	194	140	118	76	27	3	0	0	0	0	2514
27	0	0	0	0	0	15	96	100	117	139	201	232	153	70	91	151	186	159	59	4	0	0	0	0	1772
28	0	0	0	0	0	8	107	186	350	443	296	285	246	243	295	177	153	50	10	1	0	0	0	0	2848
29	0	0	0	0	0	7	56	114	199	268	292	330	411	41	111	174	95	38	19	2	0	0	0	0	2156
30	0	0	0	0	0	11	108	212	83	110	291	263	142	201	182	165	185	85	29	3	0	0	0	0	2070
Avg	0	0	0	0	0	9	72	122	165	216	241	239	240	203	200	166	147	100	43	2	0	0	0	0	2166
S D	0	0	0	0	0	3	17	33	58	84	106	114	123	114	94	74	56	40	15	1	0	0	0	0	637
S/A	0	0	0	0	0	0.3	0.24	0.27	0.35	0.39	0.44	0.48	0.51	0.56	0.47	0.45	0.38	0.4	0.35	0.52	0	0	0	0	0.29
Min	0	0	0	0	0	2	38	79	83	108	101	100	95	41	90	17	26	16	10	0	0	0	0	0	1325
Max	0	0	0	0	0	15	108	212	350	443	476	520	466	508	407	409	256	204	68	5	0	0	0	0	3625

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5030 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