

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - June 1997

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	15	106	248	237	305	476	115	31	310	423	114	182	79	36	1	0	0	0	0	2678
2	0	0	0	0	0	13	109	204	489	658	854	913	961	942	795	681	506	275	107	2	0	0	0	0	7508
3	0	0	0	0	0	11	124	328	547	757	736	446	448	365	222	386	214	271	87	2	0	0	0	0	4944
4	0	0	0	0	0	12	112	221	536	680	906	557	99	209	427	572	432	169	39	2	0	0	0	0	4973
5	0	0	0	0	0	2	59	141	378	293	357	803	1050	1009	667	144	206	103	18	0	0	0	0	0	5230
6	0	0	0	0	0	8	99	257	355	244	527	592	527	641	540	456	196	99	11	0	0	0	0	0	4555
7	0	0	0	0	0	10	84	229	496	640	588	660	712	717	451	483	268	113	34	1	0	0	0	0	5487
8	0	0	0	0	0	11	87	161	387	603	695	547	355	633	498	317	175	68	27	0	0	0	0	0	4566
9	0	0	0	0	0	5	35	113	161	257	408	347	402	341	356	204	230	103	58	4	0	0	0	0	3026
10	0	0	0	0	0	2	44	55	153	111	179	410	557	803	781	792	364	206	83	2	0	0	0	0	4541
11	0	0	0	0	0	14	130	318	550	744	870	992	1028	960	899	328	234	197	82	5	0	0	0	0	7353
12	0	0	0	0	0	10	89	155	318	494	417	300	236	799	181	22	54	109	45	5	0	0	0	0	3233
13	0	0	0	0	0	13	142	282	486	739	941	901	888	644	549	403	352	254	100	2	0	0	0	0	6697
14	0	0	0	0	0	11	116	313	517	650	816	444	925	259	213	167	498	304	105	4	0	0	0	0	5341
15	0	0	0	0	0	11	118	317	459	390	137	221	804	1020	885	719	467	111	59	5	0	0	0	0	5723
16	0	0	0	0	0	16	125	319	505	732	724	680	902	946	743	690	392	250	64	2	0	0	0	0	7091
17	0	0	0	0	0	17	128	291	479	568	633	357	907	111	537	162	168	72	23	1	0	0	0	0	4455
18	0	0	0	0	0	10	122	307	510	731	771	725	904	545	74	183	370	171	30	1	0	0	0	0	5454
19	0	0	0	0	0	13	111	300	491	715	802	903	907	468	888	655	138	213	112	2	0	0	0	0	6714
20	0	0	0	0	0	13	151	266	530	617	791	793	863	903	644	589	509	298	96	6	0	0	0	0	7071
21	0	0	0	0	0	9	116	311	524	718	879	985	1021	981	881	726	525	311	26	1	0	0	0	0	8014
22	0	0	0	0	0	9	111	307	521	660	893	992	999	980	874	674	410	204	45	1	0	0	0	0	7680
23	0	0	0	0	0	15	104	298	486	649	836	825	907	394	203	148	41	35	25	0	0	0	0	0	4967
24	0	0	0	0	0	16	118	303	504	717	914	986	1100	891	666	478	341	234	94	2	0	0	0	0	7363
25	0	0	0	0	0	10	118	344	528	736	883	1006	1056	1029	933	601	485	324	119	2	0	0	0	0	8173
26	0	0	0	0	0	6	110	299	497	556	886	1004	1054	1061	933	338	114	7	11	1	0	0	0	0	6878
27	0	0	0	0	0	10	109	314	503	700	836	715	972	1003	905	286	5 ?	13	26	2	0	0	0	0	6398
28	0	0	0	0	0	7	147	289	495	735	715	875	904	676	859	143	39	50	28	1	0	0	0	0	5962
29	0	0	0	0	0	8	119	298	498	620	808	901	593	603	481	284	290	222	82	4	0	0	0	0	5811
30	0	0	0	0	0	5	94	301	505	683	755	647	821	751	906	755	463	329	74	3	0	0	0	0	7093
Avg	0	0	0	0	0	10	108	263	455	590	701	688	764	700	614	417	289	173	58	2	0	0	0	0	5833
S D	0	0	0	0	0	4	26	71	106	176	216	258	294	279	262	228	157	98	33	2	0	0	0	0	1453
S/A	0	0	0	0	0	0.37	0.24	0.27	0.23	0.3	0.31	0.37	0.39	0.4	0.43	0.55	0.54	0.56	0.57	0.71	0	0	0	0	0.25
Min	0	0	0	0	0	2	35	55	153	111	137	115	31	111	74	22	5	7	11	0	0	0	0	0	2678
Max	0	0	0	0	0	17	151	344	550	757	941	1006	1100	1061	933	792	525	329	119	6	0	0	0	0	8173

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 26830 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 - June 1997**

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	73	174	256	47	45	60	14	4	45	97	19	32	29	28	7	0	0	0	0	929
2	0	0	0	0	0	31	95	82	462	483	728	694	694	727	520	585	654	439	383	23	0	0	0	0	6601
3	0	0	0	0	0	14	242	539	696	785	526	100	69	110	45	111	52	312	169	4	0	0	0	0	3774
4	0	0	0	0	0	18	119	107	498	468	738	303	13	26	91	242	215	89	30	16	0	0	0	0	2971
5	0	0	0	0	0	5	32	38	169	44	45	285	753	858	464	19	43	36	16	4	0	0	0	0	2813
6	0	0	0	0	0	14	116	177	117	36	90	192	129	197	143	151	49	35	8	27	0	0	0	0	1480
7	0	0	0	0	0	27	53	76	419	463	111	103	132	186	67	158	67	42	28	7	0	0	0	0	1940
8	0	0	0	0	0	29	56	39	152	238	316	59	39	173	52	51	32	27	20	2	0	0	0	0	1284
9	0	0	0	0	0	10	21	40	38	44	43	41	55	50	56	37	57	33	41	17	0	0	0	0	584
10	0	0	0	0	0	3	25	18	34	20	27	50	77	251	368	788	207	63	63	6	0	0	0	0	1999
11	0	0	0	0	0	16	140	415	652	806	706	718	675	567	757	129	72	136	46	16	0	0	0	0	5852
12	0	0	0	0	0	23	83	37	49	207	151	60	29	450	48	4	10	34	73	24	0	0	0	0	1282
13	0	0	0	0	0	30	213	399	492	680	792	608	456	279	245	205	273	384	273	8	0	0	0	0	5338
14	0	0	0	0	0	27	161	455	591	521	582	207	497	125	41	24	401	413	224	5	0	0	0	0	4274
15	0	0	0	0	0	27	178	456	353	115	19	32	469	801	774	690	481	40	46	30	0	0	0	0	4511
16	0	0	0	0	0	37	181	442	600	761	473	382	639	667	484	382	191	243	53	4	0	0	0	0	5537
17	0	0	0	0	0	42	238	328	480	387	412	115	662	15	196	31	39	22	14	2	0	0	0	0	2982
18	0	0	0	0	0	23	253	480	610	706	581	431	616	312	11	15	101	61	10	5	0	0	0	0	4213
19	0	0	0	0	0	40	86	315	476	613	570	605	596	231	594	403	39	77	49	15	0	0	0	0	4708
20	0	0	0	0	0	33	181	239	571	464	513	389	461	557	427	483	572	414	111	24	0	0	0	0	5439
21	0	0	0	0	0	26	203	495	673	774	836	866	861	801	764	703	603	464	32	3	0	0	0	0	8104
22	0	0	0	0	0	26	163	477	650	634	759	756	723	742	705	555	274	139	15	2	0	0	0	0	6620
23	0	0	0	0	0	55	114	400	537	505	532	398	610	178	26	17	8	14	18	1	0	0	0	0	3413
24	0	0	0	0	0	40	164	499	659	772	835	783	803	533	358	214	174	230	158	18	0	0	0	0	6239
25	0	0	0	0	0	35	184	532	663	777	840	915	934	938	897	561	573	586	339	3	0	0	0	0	8778
26	0	0	0	0	0	13	214	507	648	497	744	831	831	141	42	51	26	1	5	2	0	0	0	0	4553
27	0	0	0	0	0	24	188	537	645	745	727	411	689	159	54	28	1	4	17	7	0	0	0	0	4237
28	0	0	0	0	0	17	160	413	616	734	487	678	644	168	66	18	7	14	4	11	0	0	0	0	4038
29	0	0	0	0	0	17	176	444	612	423	535	598	257	52	58	51	71	77	33	6	0	0	0	0	3410
30	0	0	0	0	0	7	164	506	680	710	564	396	578	127	22	33	46	53	78	6	0	0	0	0	3969
Avg	0	0	0	0	0	26	146	325	463	482	478	401	466	349	282	225	179	150	79	10	0	0	0	0	4062
S/D	0	0	0	0	0	15	64	184	224	266	278	287	296	285	280	246	202	168	99	8	0	0	0	0	2031
S/A	0	0	0	0	0	0.56	0.44	0.57	0.48	0.55	0.58	0.72	0.63	0.82	0.99	1.09	1.13	1.12	1.25	0.83	0	0	0	0	0.5
Min	0	0	0	0	0	3	21	18	34	20	19	14	4	15	11	4	1	1	4	1	0	0	0	0	584
Max	0	0	0	0	0	73	253	539	696	806	840	915	934	938	897	788	654	586	383	30	0	0	0	0	8778

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 26830 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 - June 1997

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	14	65	152	208	270	423	93	27	268	337	99	165	68	32	1	0	0	0	0	2222
2	0	0	0	0	0	11	86	173	197	284	199	242	275	245	345	258	131	122	41	1	0	0	0	0	2611
3	0	0	0	0	0	10	65	98	119	149	270	349	380	263	183	304	185	159	56	2	0	0	0	0	2590
4	0	0	0	0	0	12	84	169	231	313	243	268	86	185	347	396	303	136	34	2	0	0	0	0	2809
5	0	0	0	0	0	2	52	124	270	259	316	525	304	189	253	129	182	87	16	0	0	0	0	0	2710
6	0	0	0	0	0	8	76	187	280	216	446	407	400	454	416	343	169	85	11	0	0	0	0	0	3498
7	0	0	0	0	0	10	72	196	233	289	488	561	581	537	393	366	229	98	29	1	0	0	0	0	4083
8	0	0	0	0	0	11	75	145	291	421	419	490	316	520	453	279	157	58	23	0	0	0	0	0	3659
9	0	0	0	0	0	4	30	97	137	223	370	307	348	293	307	177	198	91	51	3	0	0	0	0	2638
10	0	0	0	0	0	1	38	47	132	96	155	361	480	565	461	210	235	182	71	2	0	0	0	0	3038
11	0	0	0	0	0	15	97	145	150	119	238	297	358	417	235	227	192	164	75	5	0	0	0	0	2733
12	0	0	0	0	0	8	73	139	288	329	281	243	208	407	140	20	49	96	36	5	0	0	0	0	2320
13	0	0	0	0	0	13	87	118	185	211	230	312	435	372	339	247	235	113	50	2	0	0	0	0	2949
14	0	0	0	0	0	11	76	119	156	244	300	251	431	136	177	149	271	142	61	4	0	0	0	0	2526
15	0	0	0	0	0	10	74	122	250	302	121	190	339	252	207	206	181	97	51	5	0	0	0	0	2407
16	0	0	0	0	0	16	83	129	134	144	304	308	269	307	311	423	283	153	54	2	0	0	0	0	2920
17	0	0	0	0	0	19	73	152	180	272	259	247	249	97	364	139	146	63	20	1	0	0	0	0	2281
18	0	0	0	0	0	10	63	103	136	186	252	307	293	240	65	171	315	146	28	1	0	0	0	0	2317
19	0	0	0	0	0	11	89	164	199	241	293	317	315	250	367	352	117	180	89	1	0	0	0	0	2988
20	0	0	0	0	0	12	108	165	180	261	329	417	406	371	268	234	176	135	72	5	0	0	0	0	3138
21	0	0	0	0	0	9	67	100	113	121	131	145	166	211	210	199	173	129	18	1	0	0	0	0	1794
22	0	0	0	0	0	8	71	105	125	176	215	259	281	267	254	253	248	149	42	1	0	0	0	0	2454
23	0	0	0	0	0	13	78	127	159	261	361	439	301	220	181	136	36	30	22	0	0	0	0	0	2363
24	0	0	0	0	0	15	76	90	105	122	168	228	303	379	348	319	240	145	59	2	0	0	0	0	2597
25	0	0	0	0	0	9	73	119	127	138	133	119	129	127	144	180	153	94	48	2	0	0	0	0	1594
26	0	0	0	0	0	6	59	86	107	173	222	197	229	678 ?	? ?	300	99	7 ?	11	1	0	0	0	0	2175
27	0	0	0	0	0	8	62	90	112	128	190	318	289	633 ?	664 ?	94 ?	4 ?	11	23	2	0	0	0	0	2630
28	0	0	0	0	0	6	105	121	121	172	282	219	264	484	622 ?	128	35	44	27	0	0	0	0	0	2631
29	0	0	0	0	0	7	78	111	130	301	330	323	338	344 ?	398	246	248	167	76	4	0	0	0	0	3102
30	0	0	0	0	0	5	54	90	95	144	254	264	248	332 ?	? ?	? ?	269 ?	254 ?	56	2	0	0	0	0	2066 ?
Avg	0	0	0	0	0	10	73	126	172	219	274	300	302	335	314	227	181	113	43	2	0	0	0	0	2661
S D	0	0	0	0	0	4	17	33	59	77	93	109	112	147	134	96	79	54	21	1	0	0	0	0	511
S/A	0	0	0	0	0	0.39	0.23	0.26	0.34	0.35	0.34	0.36	0.37	0.44	0.43	0.42	0.44	0.48	0.49	0.72	0	0	0	0	0.19
Min	0	0	0	0	0	1	30	47	95	96	121	93	27	97	65	20	4	7	11	0	0	0	0	0	1594
Max	0	0	0	0	0	19	108	196	291	421	488	561	581	678	664	423	315	254	89	5	0	0	0	0	4083

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 26830 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