

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - October 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	0	22	166	329	591	752	855	875	693	662	437	259	78	0	0	0	0	0	0	5720
2	0	0	0	0	0	0	17	57	92	434	685	590	652	406	160	440	279	71	0	0	0	0	0	0	3883
3	0	0	0	0	0	0	14	154	382	589	733	835	816	791	490	495	250	87	0	0	0	0	0	0	5635
4	0	0	0	0	0	0	24	104	321	327	686	733	882	815	692	360	161	46	0	0	0	0	0	0	5151
5	0	0	0	0	0	0	31	154	230	303	702	797	701	701	571	401	151	59	0	0	0	0	0	0	4801
6	0	0	0	0	0	0	23	164	357	612	719	818	883	856	670	462	211	82	0	0	0	0	0	0	5858
7	0	0	0	0	0	0	19	91	250	426	730	853	858	824	557	514	289	70	0	0	0	0	0	0	5480
8	0	0	0	0	0	0	16	116	341	537	743	828	810	756	503	409	221	53	0	0	0	0	0	0	5333
9	0	0	0	0	0	0	12	113	345	563	723	651	747	734	614	493	232	48	0	0	0	0	0	0	5276
10	0	0	0	0	0	0	15	149	357	500	721	819	787	618	644	470	260	59	0	0	0	0	0	0	5399
11	0	0	0	0	0	0	8	96	270	485	711	724	821	714	491	264	183	34	0	0	0	0	0	0	4802
12	0	0	0	0	0	0	9	90	149	494	691	798	779	740	636	447	222	44	0	0	0	0	0	0	5100
13	0	0	0	0	0	0	15	138	339	545	709	797	800	740	458	338	43	24	0	0	0	0	0	0	4946
14	0	0	0	0	0	0	10	138	342	553	716	810	833	782	654	478	170	32	0	0	0	0	0	0	5517
15	0	0	0	0	0	0	14	100	356	593	701	812	773	593	407	427	116	34	0	0	0	0	0	0	4925
16	0	0	0	0	0	0	17	188	309	473	615	396	414	470	362	249	61	28	0	0	0	0	0	0	3581
17	0	0	0	0	0	0	9	84	250	554	675	424	488	419	396	256	154	15	0	0	0	0	0	0	3723
18	0	0	0	0	0	0	8	107	103	84	137	108	429	195	119	65	31	5	0	0	0	0	0	0	1392
19	0	0	0	0	0	0	12	123	255	518	681	607	744	778	637	455	236	37	0	0	0	0	0	0	5083
20	0	0	0	0	0	0	9	136	348	544	704	813	826	767	633	348	221	33	0	0	0	0	0	0	5383
21	0	0	0	0	0	0	10	129	332	530	685	771	789	739	614	428	214	30	0	0	0	0	0	0	5270
22	0	0	0	0	0	0	9	123	324	524	681	770	788	736	493	387	188	22	0	0	0	0	0	0	5044
23	0	0	0	0	0	0	8	119	320	528	665	751	808	758	632	445	172	29	0	0	0	0	0	0	5234
24	0	0	0	0	0	0	10	97	243	424	502	619	479	382	289	133	53	4	0	0	0	0	0	0	3236
25	0	0	0	0	0	0	5	68	165	380	583	514	317	271	366	171	127	24	0	0	0	0	0	0	2992
26	0	0	0	0	0	0	9	104	315	471	581	648	597	421	361	353	192	21	0	0	0	0	0	0	4072
27	0	0	0	0	0	0	1	17	23	18	21	45	17	47	39	37	18	3	0	0	0	0	0	0	287
28	0	0	0	0	0	0	4	115	326	607	680	746	690	692	366	337	127	13	0	0	0	0	0	0	4704
29	0	0	0	0	0	0	5	76	221	312	501	407	453	433	386	205	89	15	0	0	0	0	0	0	3101
30	0	0	0	0	0	0	2	38	171	414	402	395	631	453	299	202	100	11	0	0	0	0	0	0	3118
31	0	0	0	0	0	0	1	27	50	85	41	14	32	35	32	27	8	1	0	0	0	0	0	0	351
Avg	0	0	0	0	0	0	12	109	265	452	609	637	662	592	459	340	162	36	0	0	0	0	0	0	4335
S D	0	0	0	0	0	0	7	40	97	152	194	236	227	226	186	140	80	24	0	0	0	0	0	0	1461
S/A	0	0	0	0	0	0	0.58	0.36	0.37	0.34	0.32	0.37	0.34	0.38	0.41	0.41	0.49	0.67	2.42	0	0	0	0	0	0.34
Min	0	0	0	0	0	0	1	17	23	18	21	14	17	35	32	27	8	1	0	0	0	0	0	0	287
Max	0	0	0	0	0	0	31	188	382	612	752	855	883	856	692	514	289	87	0	0	0	0	0	0	5858

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 8729 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 - October 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	0	65	389	504	760	837	875	858	604	675	492	417	225	0	0	0	0	0	0	6701
2	0	0	0	0	0	0	19	17	56	426	566	290	434	280	89	522	535	189	5	0	0	0	0	0	3429
3	0	0	0	0	0	0	19	261	498	763	790	866	772	780	486	711	557	340	75	0	0	0	0	0	6916
4	0	0	0	0	0	0	34	80	408	156	607	598	862	858	735	238	113	65	2	0	0	0	0	0	4757
5	0	0	0	0	0	0	28	30	143	202	541	752	501	574	518	379	58	148	1	0	0	0	0	0	3875
6	0	0	0	0	0	0	9	4	228	816	823	839	954	930	792	618	305	336	0	0	0	0	0	0	6654
7	0	0	0	0	0	0	32	33	51	308	789	905	864	885	499	737	645	256	1	0	0	0	0	0	6004
8	0	0	0	0	0	0	28	73	503	595	837	847	733	649	374	444	303	102	0	0	0	0	0	0	5486
9	0	0	0	0	0	0	27	72	431	624	791	518	628	686	680	752	421	111	0	0	0	0	0	0	5742
10	0	0	0	0	0	0	167	287	607	568	757	854	705	295	692	698	539	201	0	0	0	0	0	0	6370
11	0	0	0	0	0	0	12	38	214	451	702	606	815	665	406	193	170	21	0	0	0	0	0	0	4293
12	0	0	0	0	0	0	32	47	41	487	742	816	754	707	754	633	406	121	0	0	0	0	0	0	5543
13	0	0	0	0	0	0	28	283	562	701	770	761	677	528	264	247	18	31	0	0	0	0	0	0	4870
14	0	0	0	0	0	0	18	279	469	707	870	914	922	922	884	773	250	58	0	0	0	0	0	0	7065
15	0	0	0	0	0	0	26	155	483	698	726	850	664	296	192	374	35	29	0	0	0	0	0	0	4527
16	0	0	0	0	0	0	30	373	489	449	453	60	43	124	149	164	15	38	0	0	0	0	0	0	2389
17	0	0	0	0	0	0	25	41	125	689	717	103	192	99	166	235	188	10	0	0	0	0	0	0	2591
18	0	0	0	0	0	0	130	88	24	15	19	15	49	30	19	13	12	5	0	0	0	0	0	0	421
19	0	0	0	0	0	0	11	83	301	688	775	476	629	735	789	772	601	181	0	0	0	0	0	0	6043
20	0	0	0	0	0	0	8	2	418	826	910	952	957	940	897	565	594	171	0	0	0	0	0	0	7241
21	0	0	0	0	0	0	8	0	151	747	854	891	888	874	837	747	575	143	0	0	0	0	0	0	6716
22	0	0	0	0	0	0	2	0	27	621	844	870	876	859	557	575	384	63	0	0	0	0	0	0	5679
23	0	0	0	0	0	0	11	9	7	365	757	838	944	954	927	846	456	91	0	0	0	0	0	0	6207
24	0	0	0	0	0	0	19	49	40	80	257	302	118	63	47	35	20	6	0	0	0	0	0	0	1035
25	0	0	0	0	0	0	8	23	22	45	309	300	41	22	184	53	118	33	0	0	0	0	0	0	1158
26	0	0	0	0	0	0	14	32	46	54	191	460	375	160	180	355	338	44	0	0	0	0	0	0	2249
27	0	0	0	0	0	0	3	9	6	3	3	7	2	7	6	10	8	4	0	0	0	0	0	0	68
28	0	0	0	0	0	0	8	9	5	86	20	560	695	741	215	335	113	18	0	0	0	0	0	0	2805
29	0	0	0	0	0	0	13	35	37	13	51	31	198	250	230	86	15	41	0	0	0	0	0	0	1000
30	0	0	0	0	0	0	5	13	26	94	41	38	324	91	56	113	57	12	0	0	0	0	0	0	869
31	0	0	0	0	0	0	0	12	12	16	7	2	4	5	5	6	3	2	0	0	0	0	0	0	75

Avg	0	0	0	0	0	0	27	91	224	421	560	555	564	504	429	410	267	100	3	0	0	0	0	0	4154
S D	0	0	0	0	0	0	35	115	210	289	315	336	327	338	306	271	219	95	13	0	0	0	0	0	2335
S/A	0	0	0	0	0	0	1.28	1.26	0.94	0.69	0.56	0.61	0.58	0.67	0.71	0.66	0.82	0.96	4.83	0	0	0	0	0	0.56
Min	0	0	0	0	0	0	0	0	5	3	3	2	2	5	5	6	3	2	0	0	0	0	0	0	68
Max	0	0	0	0	0	0	167	389	607	826	910	952	957	954	927	846	645	340	75	0	0	0	0	0	7241

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 45604 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
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - October 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	0	17	72	92	110	116	129	152	207	195	170	109	38	0	0	0	0	0	0	1406
2	0	0	0	0	0	0	15	52	63	159	259	350	288	179	103	166	87	36	0	0	0	0	0	0	1757
3	0	0	0	0	0	0	12	82	147	108	136	124	170	175	163	111	62	30	0	0	0	0	0	0	1321
4	0	0	0	0	0	0	22	81	126	229	226	242	165	141	184	225	126	38	0	0	0	0	0	0	1805
5	0	0	0	0	0	0	31	146	169	179	296	183	284	253	217	198	130	38	0	0	0	0	0	0	2125
6	0	0	0	0	0	0	24	170	246	104	109	135	97	133	133	130	105	30	0	0	0	0	0	0	1416
7	0	0	0	0	0	0	18	83	227	230	144	121	149	139	225	132	71	31	0	0	0	0	0	0	1569
8	0	0	0	0	0	0	14	93	118	172	126	146	212	255	256	177	117	38	0	0	0	0	0	0	1726
9	0	0	0	0	0	0	11	94	151	180	143	239	238	208	162	107	94	30	0	0	0	0	0	0	1655
10	0	0	0	0	0	0	14	70	86	163	165	138	216	396	191	115	90	28	0	0	0	0	0	0	1672
11	0	0	0	0	0	0	7	86	168	214	201	245	164	208	220	169	123	32	0	0	0	0	0	0	1838
12	0	0	0	0	0	0	8	78	131	189	155	153	174	206	144	124	90	26	0	0	0	0	0	0	1479
13	0	0	0	0	0	0	13	66	94	125	156	198	261	342	294	205	38	21	0	0	0	0	0	0	1812
14	0	0	0	0	0	0	9	68	135	129	93	94	102	96	88	97	89	25	0	0	0	0	0	0	1026
15	0	0	0	0	0	0	13	56	153	178	181	150	248	372	293	231	105	31	0	0	0	0	0	0	2010
16	0	0	0	0	0	0	14	101	102	206	304	349	381	379	271	165	56	24	0	0	0	0	0	0	2351
17	0	0	0	0	0	0	8	75	192	152	172	344	339	346	296	147	91	14	0	0	0	0	0	0	2174
18	0	0	0	0	0	0	7	84	94	75	124	96	391	173	107	58	28	4	0	0	0	0	0	0	1241
19	0	0	0	0	0	0	11	103	126	115	141	244	258	245	148	94	65	15	0	0	0	0	0	0	1565
20	0	0	0	0	0	0	9	139	163	68	72	89	91	91	80	82	54	13	0	0	0	0	0	0	952
21	0	0	0	0	0	0	10	131	262	101	96	98	109	114	103	83	54	12	0	0	0	0	0	0	1172
22	0	0	0	0	0	0	9	125	312	163	101	115	122	125	155	126	82	14	0	0	0	0	0	0	1448
23	0	0	0	0	0	0	9	117	317	293	149	122	94	83	73	62	43	18	0	0	0	0	0	0	1379
24	0	0	0	0	0	0	10	87	227	353	326	393	391	338	261	117	48	4	0	0	0	0	0	0	2555
25	0	0	0	0	0	0	5	64	156	355	371	295	286	256	257	149	92	21	0	0	0	0	0	0	2306
26	0	0	0	0	0	0	8	97	297	441	435	307	317	309	253	202	102	17	0	0	0	0	0	0	2786
27	0	0	0	0	0	0	1	15	21	17	19	41	15	42	36	33	16	3	0	0	0	0	0	0	258
28	0	0	0	0	0	0	4	124	333	?	570	?	268	177	182	236	188	100	11	0	0	0	0	0	2193
29	0	0	0	0	0	0	4	69	206	304	457	385	309	262	256	165	85	11	0	0	0	0	0	0	2513
30	0	0	0	0	0	0	2	35	161	347	322	368	395	390	265	160	85	10	0	0	0	0	0	0	2540
31	0	0	0	0	0	0	1	24	45	77	37	12	28	31	29	24	7	0	0	0	0	0	0	0	316
Avg	0	0	0	0	0	0	11	87	165	184	200	199	214	215	184	136	79	22	0	0	0	0	0	0	1689
S D	0	0	0	0	0	0	7	34	79	98	127	106	106	104	78	53	31	11	0	0	0	0	0	0	593
S/A	0	0	0	0	0	0	0.6	0.39	0.48	0.53	0.63	0.53	0.49	0.48	0.43	0.39	0.4	0.53	2.39	0	0	0	0	0	0.35
Min	0	0	0	0	0	0	1	15	21	17	19	12	15	31	29	24	7	0	0	0	0	0	0	0	258
Max	0	0	0	0	0	0	31	170	333	441	570	393	395	396	296	231	130	38	0	0	0	0	0	0	2786

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 8729 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