

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - November 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	2	84	217	423	527	585	693	536	563	386	161	6	0	0	0	0	0	0	4185
2	0	0	0	0	0	0	4	107	177	462	609	649	685	684	564	400	192	18	0	0	0	0	0	0	4552
3	0	0	0	0	0	0	4	119	301	488	636	734	502	420	439	208	170	17	0	0	0	0	0	0	4038
4	0	0	0	0	0	0	4	104	301	500	656	732	743	701	574	388	215	25	0	0	0	0	0	0	4942
5	0	0	0	0	0	0	4	50	237	457	521	723	707	693	507	357	157	9	0	0	0	0	0	0	4423
6	0	0	0	0	0	0	3	92	290	442	488	495	732	652	475	370	135	7	0	0	0	0	0	0	4182
7	0	0	0	0	0	0	0	64	168	392	525	663	760	419	430	331	131	15	0	0	0	0	0	0	3898
8	0	0	0	0	0	0	3	92	278	456	647	739	741	675	556	379	166	12	0	0	0	0	0	0	4746
9	0	0	0	0	0	0	3	112	244	477	623	715	739	679	551	374	164	12	0	0	0	0	0	0	4692
10	0	0	0	0	0	0	3	93	254	419	610	702	722	659	525	347	144	8	0	0	0	0	0	0	4486
11	0	0	0	0	0	0	2	64	249	442	589	678	700	639	514	355	151	12	0	0	0	0	0	0	4395
12	0	0	0	0	0	0	3	73	249	422	536	668	631	289	143	76	62	4	0	0	0	0	0	0	3156
13	0	0	0	0	0	0	1	18	34	53	44 ?	34 ?	32 ?	32 ?	94	63	30	4	0	0	0	0	0	0	438
14	0	0	0	0	0	0	1	19	83	210	439	622	635	670	459	365	154	10	0	0	0	0	0	0	3665
15	0	0	0	0	0	0	1	73	257	445	591	677	697	644	520	328	115	5	0	0	0	0	0	0	4354
16	0	0	0	0	0	0	1	70	251	406	454	544	684	633	517	340	144	8	0	0	0	0	0	0	4054
17	0	0	0	0	0	0	1	64	259	446	602	680	695	661	538	362	151	9	0	0	0	0	0	0	4467
18	0	0	0	0	0	0	1	70	213	415	571	670	713	637	454	283	130	3	0	0	0	0	0	0	4160
19	0	0	0	0	0	0	0	48	177	421	510	583	450	358	247	229	99	4	0	0	0	0	0	0	3127
20	0	0	0	0	0	0	1	52	174	286	312	609	670	616	500	309	132	4	0	0	0	0	0	0	3663
21	0	0	0	0	0	0	0	63	234	435	420	547	630	591	436	268	103	6	0	0	0	0	0	0	3735
22	0	0	0	0	0	0	0	25	122	265	460	581	518	315	356	145	34	2	0	0	0	0	0	0	2823
23	0	0	0	0	0	0	0	30	86	152	201	289	244	207	205	120	60	4	0	0	0	0	0	0	1599
24	0	0	0	0	0	0	0	42	132	270	328	349	321	260	307	180	59	3	0	0	0	0	0	0	2250
25	0	0	0	0	0	0	0	56	183	397	542	554	382	465	379	82	65	5	0	0	0	0	0	0	3109
26	0	0	0	0	0	0	0	46	158	346	474	635	646	586	467	308	125	4	0	0	0	0	0	0	3796
27	0	0	0	0	0	0	0	54	204	379	523	634	654	604	485	320	120	5	0	0	0	0	0	0	3983
28	0	0	0	0	0	0	0	37	134	207	217	245	180	412	309	318	104	5	0	0	0	0	0	0	2167
29	0	0	0	0	0	0	0	30	98	151	243	167	122	91	131	103	30	2	0	0	0	0	0	0	1167
30	0	0	0	0	0	0	0	10	19	112	122	142	153	116	85	58	29	2	0	0	0	0	0	0	849
Avg	0	0	0	0	0	0	1	62	193	359	467	555	559	498	411	272	118	8	0	0	0	0	0	0	3503
S/D	0	0	0	0	0	0	1	29	76	122	161	191	214	199	149	112	50	5	0	0	0	0	0	0	1193
S/A	0	0	0	0	0	0	0.95	0.47	0.39	0.34	0.34	0.34	0.38	0.4	0.36	0.41	0.43	0.69	0	0	0	0	0	0	0.34
Min	0	0	0	0	0	0	0	10	19	53	44	34	32	32	85	58	29	2	0	0	0	0	0	0	438
Max	0	0	0	0	0	0	4	119	301	500	656	739	760	701	574	400	215	25	0	0	0	0	0	0	4942

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 12591 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 - November 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	2	19	42	31	58	31	193	550	848	743	457	35	0	0	0	0	0	0	3010
2	0	0	0	0	0	0	12	23	25	22	26	42	74	593	828	821	685	155	0	0	0	0	0	0	3306
3	0	0	0	0	0	0	0	224	675	813	822	942	435	228	199	25	26	14	0	0	0	0	0	0	4403
4	0	0	0	0	0	0	20	365	678	844	927	919	904	956	851	371	160	34	0	0	0	0	0	0	7029
5	0	0	0	0	0	0	10	18	157	452	386	764	830	841	631	465	284	27	0	0	0	0	0	0	4865
6	0	0	0	0	0	0	11	290	615	622	407	342	896	801	558	694	332	12	0	0	0	0	0	0	5580
7	0	0	0	0	0	0	6	148	137	491	589	698	913	356	499	587	253	91	0	0	0	0	0	0	4766
8	0	0	0	0	0	0	8	246	553	680	809	884	902	885	875	787	557	89	0	0	0	0	0	0	7275
9	0	0	0	0	0	0	10	388	490	768	844	920	944	928	877	779	557	120	0	0	0	0	0	0	7626
10	0	0	0	0	0	0	15	329	555	690	856	910	927	906	826	693	436	45	0	0	0	0	0	0	7189
11	0	0	0	0	0	0	6	38	503	734	821	864	887	855	807	726	481	42	0	0	0	0	0	0	6763
12	0	0	0	0	0	0	13	48	302	586	593	572	546	41	18	15	21	4	0	0	0	0	0	0	2759
13	0	0	0	0	0	0	9	10	7	8	3	1	2	3	11	10	12	6	0	0	0	0	0	0	81
14	0	0	0	0	0	0	9	8	14	28	270	517	614	804	698	782	558	72	0	0	0	0	0	0	4374
15	0	0	0	0	0	0	2	254	608	783	875	921	934	921	860	693	315	5	0	0	0	0	0	0	7171
16	0	0	0	0	0	0	2	222	569	359	314	408	893	892	847	730	502	60	0	0	0	0	0	0	5797
17	0	0	0	0	0	0	4	186	613	763	882	876	915	942	903	814	564	68	0	0	0	0	0	0	7530
18	0	0	0	0	0	0	16	270	477	665	739	866	884	860	588	315	349	11	0	0	0	0	0	0	6040
19	0	0	0	0	0	0	9	28	229	446	483	458	139	64	42	177	116	669	0	0	0	0	0	0	2859
20	0	0	0	0	0	0	6	41	94	130	55	548	846	869	816	610	448	11	0	0	0	0	0	0	4474
21	0	0	0	0	0	0	0	215	553	785	445	526	706	755	623	462	262	27	0	0	0	0	0	0	5360
22	0	0	0	0	0	0	2	11	24	45	504	703	474	127	246	31	11	3	0	0	0	0	0	0	2180
23	0	0	0	0	0	0	1	17	16	19	22	32	26	22	31	22	27	5	0	0	0	0	0	0	239
24	0	0	0	0	0	0	2	27	25	60	37	34	33	31	71	32	24	7	0	0	0	0	0	0	382
25	0	0	0	0	0	0	15	171	297	636	788	536	255	225	336	10	22	8	0	0	0	0	0	0	3300
26	0	0	0	0	0	0	0	31	142	404	528	835	828	690	723	642	428	19	0	0	0	0	0	0	5269
27	0	0	0	0	0	0	0	229	497	716	737	874	893	869	791	681	387	23	0	0	0	0	0	0	6695
28	0	0	0	0	0	0	0	32	70	53	26	25	17	168	110	560	256	6	0	0	0	0	0	0	1323
29	0	0	0	0	0	0	0	22	16	21	22	17	10	9	15	17	11	6	0	0	0	0	0	0	167
30	0	0	0	0	0	0	0	8	4	14	13	13	13	12	9	9	10	3	0	0	0	0	0	0	109
Avg	0	0	0	0	0	0	6	131	300	422	463	536	564	540	518	443	285	56	0	0	0	0	0	0	4264
S D	0	0	0	0	0	0	6	123	250	314	332	350	372	370	339	313	212	120	0	0	0	0	0	0	2459
S/A	0	0	0	0	0	0	0.9	0.95	0.83	0.74	0.72	0.65	0.66	0.69	0.65	0.71	0.74	2.15	0	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	0	8	4	8	3	1	2	3	9	9	10	3	0	0	0	0	0	0	81
Max	0	0	0	0	0	0	20	388	678	844	927	942	944	956	903	821	685	669	0	0	0	0	0	0	7626

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 49466 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 - November 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	2	80	201	377	414 ?	440 ?	514	171	81	75	50	5	0	0	0	0	0	0	2411
2	0	0	0	0	0	0	4	104	155	451	546 ?	561 ?	568 ?	293	97	60	32	5	0	0	0	0	0	0	2876
3	0	0	0	0	0	0	5	70	52	59	109	70	189	269	318	198	145	16	0	0	0	0	0	0	1499
4	0	0	0	0	0	0	3	36	52	58	65	87	102	70	98	230	184 ?	22	0	0	0	0	0	0	1007
5	0	0	0	0	0	0	4	47	176	223	276	188	122	141	149	169	84	7	0	0	0	0	0	0	1586
6	0	0	0	0	0	0	3	38	69	123	233	257	104	127	176	91	58	7	0	0	0	0	0	0	1283
7	0	0	0	0	0	0	0	31	126	133	161	183	123	185	164	91	64	8	0	0	0	0	0	0	1269
8	0	0	0	0	0	0	3	47	82	110	142	132	115	105	81	67	43	5	0	0	0	0	0	0	932
9	0	0	0	0	0	0	3	42	72	89	99	87	86	83	77	67	43	5	0	0	0	0	0	0	752
10	0	0	0	0	0	0	2	37	63	69	82	83	85	80	81	76	48	5	0	0	0	0	0	0	712
11	0	0	0	0	0	0	2	58	72	76	86	94	93	95	84	73	48	8	0	0	0	0	0	0	790
12	0	0	0	0	0	0	3	64	142	128	174	285	258	263	133	70	57	4	0	0	0	0	0	0	1582
13	0	0	0	0	0	0	1	16	31	49	41 ?	32 ?	30 ?	89	59	28	4	0	0	0	0	0	0	0	409
14	0	0	0	0	0	0	1	18	77	197	275	278	222	165	98	67	39	5	0	0	0	0	0	0	1442
15	0	0	0	0	0	0	1	31	56	65	67	67	71	70	70	64	46	5	0	0	0	0	0	0	614
16	0	0	0	0	0	0	1	33	64	240	264	278	88	81	76	65	42	4	0	0	0	0	0	0	1237
17	0	0	0	0	0	0	1	32	60	81	80	105	87	80	71	58	38	4	0	0	0	0	0	0	697
18	0	0	0	0	0	0	1	32	59	99	137	105	129	108	144	166	57	2	0	0	0	0	0	0	1041
19	0	0	0	0	0	0	0	44	97	211	227	288	359	318	225	167	71	4	0	0	0	0	0	0	2011
20	0	0	0	0	0	0	1	47	142	230	280	280	116	87	83	84	43	3	0	0	0	0	0	0	1397
21	0	0	0	0	0	0	0	29	61	68	169	208	170	133	119	100	51	5	0	0	0	0	0	0	1112
22	0	0	0	0	0	0	0	23	114	244	167	132	210	238	227	133	32	2	0	0	0	0	0	0	1521
23	0	0	0	0	0	0	0	28	81	144	189	269	227	194	190	112	55	4	0	0	0	0	0	0	1492
24	0	0	0	0	0	0	0	39	125	243	307	328	300	242	272	168	54	3	0	0	0	0	0	0	2081
25	0	0	0	0	0	0	0	30	93	112	94	216	219	335	200	79	60	5	0	0	0	0	0	0	1443
26	0	0	0	0	0	0	0	42	116	163	176	111	117	177	105	79	43	3	0	0	0	0	0	0	1131
27	0	0	0	0	0	0	0	27	55	66	111	88	86	90	92	76	46	4	0	0	0	0	0	0	742
28	0	0	0	0	0	0	0	33	110	185	203	229	169	316	255	120	49	5	0	0	0	0	0	0	1673
29	0	0	0	0	0	0	0	28	93	141	230	156	116	86	124	97	28	2	0	0	0	0	0	0	1102
30	0	0	0	0	0	0	0	9	18	106	115	134	145	109	80	55	27	2	0	0	0	0	0	0	802
Avg	0	0	0	0	0	0	1	40	90	151	184	192	174	158	135	101	56	5	0	0	0	0	0	0	1288
S/D	0	0	0	0	0	0	1	19	42	94	109	117	122	86	67	46	32	4	0	0	0	0	0	0	541
S/A	0	0	0	0	0	0	0.98	0.48	0.46	0.62	0.59	0.61	0.7	0.55	0.5	0.46	0.58	0.75	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	9	18	49	41	32	30	30	70	55	27	2	0	0	0	0	0	0	409
Max	0	0	0	0	0	0	5	104	201	451	546	561	568	335	318	230	184	22	0	0	0	0	0	0	2876

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 12591 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