

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - May 1998

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	3	82	263	480	533	724	471	693	640	551	511	491	256	56	0	0	0	0	0	5754
2	0	0	0	0	0	3	95	292	516	728	892	1002	932	797	715	648	404	203	50	0	0	0	0	0	7277
3	0	0	0	0	0	3	89	289	519	730	898	1004	1025	973	764	714	450	265	56	0	0	0	0	0	7779
4	0	0	0	0	0	3	42	230	460	484	786	478	256	276	324	170	134	133	68	0	0	0	0	0	3843
5	0	0	0	0	0	2	52	221	488	673	672	752	834	643	675	596	398	240	44	0	0	0	0	0	6290
6	0	0	0	0	0	5	104	282	507	615	943	992	1026	978	865	693	472	240	52	0	0	0	0	0	7775
7	0	0	0	0	0	6	66	146	225	327	316	294	899	875	714	552	462	222	44	0	0	0	0	0	5148
8	0	0	0	0	0	3	77	257	451	639	814	840	876	851	710	615	418	226	40	0	0	0	0	0	6817
9	0	0	0	0	0	10	119	201	391	605	719	838	844	807	693	535	358	167	34	0	0	0	0	0	6320
10	0	0	0	0	0	4	79	248	435	613	826	997	964	904	758	420	252	120	33	0	0	0	0	0	6654
11	0	0	0	0	0	6	93	264	506	742	898	985	1005	639	764	701	473	246	58	0	0	0	0	0	7380
12	0	0	0	0	0	7	117	304	520	732	769	741	997	736	792	705	479	250	59	0	0	0	0	0	7206
13	0	0	0	0	0	7	111	295	517	722	879	988	1026	988	879	705	483	251	59	0	0	0	0	0	7912
14	0	0	0	0	0	7	103	285	490	706	862	971	989	964	855	685	471	238	54	0	0	0	0	0	7680
15	0	0	0	0	0	8	108	299	542	741	927	1033	1072	1028	912	737	513	276	69	0	0	0	0	0	8266
16	0	0	0	0	0	9	111	306	525	731	898	1003	1037	1012	903	734	507	261	60	0	0	0	0	0	8099
17	0	0	0	0	0	8	96	268	466	649	778	846	894	850	737	587	378	195	46	0	0	0	0	0	6798
18	0	0	0	0	0	5	57	194	384	577	655	456	663	580	259	52	6	5	3	0	0	0	0	0	3895
19	0	0	0	0	0	6	85	245	353	593	677	638	743	897	867	696	481	255	61	0	0	0	0	0	6598
20	0	0	0	0	0	8	88	288	490	735	921	1015	1048	1006	893	718	499	269	64	0	0	0	0	0	8042
21	0	0	0	0	0	9	111	305	521	714	868	956	975	924	758	634	420	219	53	0	0	0	0	0	7467
22	0	0	0	0	0	10	127	340	545	751	896	984	1028	958	829	635	424	212	56	0	0	0	0	0	7796
23	0	0	0	0	0	10	128	322	526	720	870	957	976	926	810	626	414	209	54	1	0	0	0	0	7549
24	0	0	0	0	0	9	117	307	513	706	859	952	982	928	786	624	423	224	74	1	0	0	0	0	7505
25	0	0	0	0	0	11	105	295	502	660	810	895	897	853	728	562	340	184	44	1	0	0	0	0	6888
26	0	0	0	0	0	7	93	283	487	600	599	719	750	726	521	542	408	170	47	0	0	0	0	0	5952
27	0	0	0	0	0	5	52	121	252	252	295	509	303	318	247	172	133	56	25	0	0	0	0	0	2741
28	0	0	0	0	0	5	69	168	228	358	633	800	540	644	326	82	58	40	18	0	0	0	0	0	3969
29	0	0	0	0	0	16	187	352	474	570	829	701	627	535	626	351	412	236	71	1	0	0	0	0	5986
30	0	0	0	0	0	11	82	297	442	468	660	596	700	818	446	262	208	88	27	0	0	0	0	0	5105
31	0	0	0	0	0	13	153	344	455	496	875	998	983	954	848	672	476	262	56	1	0	0	0	0	7587
Avg	0	0	0	0	0	7	97	268	458	618	776	820	858	807	695	546	382	201	49	0	0	0	0	0	6583
S D	0	0	0	0	0	3	30	55	86	129	156	205	205	191	190	197	135	70	16	0	0	0	0	0	1414
S/A	0	0	0	0	0	0.45	0.31	0.2	0.19	0.21	0.2	0.25	0.24	0.24	0.27	0.36	0.35	0.35	0.32	1.44	0	0	0	0	0.21
Min	0	0	0	0	0	2	42	121	225	252	295	294	256	276	247	52	6	5	3	0	0	0	0	0	2741
Max	0	0	0	0	0	16	187	352	455	496	875	998	983	954	848	672	476	262	74	1	0	0	0	0	8266

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 5058 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 - May 1998**

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	14	91	326	516	261	401	117	296	298	291	380	604	388	124	0	0	0	0	0	4108
2	0	0	0	0	0	11	211	523	697	803	863	868	664	508	518	614	470	266	124	0	0	0	0	0	7140
3	0	0	0	0	0	10	156	496	703	818	891	921	900	864	614	816	591	524	145	0	0	0	0	0	8450
4	0	0	0	0	0	23	32	275	363	196	423	66	36	36	43	33	38	12	141	0	0	0	0	0	1717
5	0	0	0	0	0	16	41	153	496	581	365	362	474	368	490	442	372	394	85	0	0	0	0	0	4639
6	0	0	0	0	0	26	157	423	636	550	822	832	849	833	798	735	609	401	108	0	0	0	0	0	7779
7	0	0	0	0	0	26	51	44	49	44	31	50	456	521	382	261	367	262	37	0	0	0	0	0	2582
8	0	0	0	0	0	9	33	193	304	407	507	499	517	517	397	433	377	256	42	0	0	0	0	0	4491
9	0	0	0	0	0	36	73	50	216	365	378	462	440	433	386	327	256	118	22	0	0	0	0	0	3562
10	0	0	0	0	0	55	45	168	309	408	614	801	755	609	522	171	68	23	11	7	0	0	0	0	4569
11	0	0	0	0	0	21	72	240	510	734	763	802	731	309	611	702	563	392	106	3	0	0	0	0	6558
12	0	0	0	0	0	29	230	465	617	726	577	449	661	450	640	627	551	397	125	2	0	0	0	0	6545
13	0	0	0	0	0	26	179	463	650	758	809	847	867	862	787	518	425	405	124	1	0	0	0	0	7720
14	0	0	0	0	0	20	140	363	479	634	692	726	672	715	722	659	553	330	77	3	0	0	0	0	6785
15	0	0	0	0	0	21	144	439	664	729	865	943	970	960	920	850	734	544	203	3	0	0	0	0	8989
16	0	0	0	0	0	11	180	469	613	734	806	838	863	903	896	850	723	487	137	8	0	0	0	0	8519
17	0	0	0	0	0	19	64	241	366	415	405	388	425	401	364	320	231	135	27	6	0	0	0	0	3806
18	0	0	0	0	0	31	44	50	63	238	202	53	117	152	36	7	1	1	1	0	0	0	0	0	998
19	0	0	0	0	0	15	32	103	96	191	255	141	267	624	311	98	66	122	128	2	0	0	0	0	2449
20	0	0	0	0	0	25	60	293	570	775	865	893	920	827	489	863	753	553	162	7	0	0	0	0	8055
21	0	0	0	0	0	23	116	330	490	588	652	681	679	651	528	543	408	241	48	6	0	0	0	0	5984
22	0	0	0	0	0	21	182	450	581	702	744	771	801	774	692	549	359	207	54	4	0	0	0	0	6892
23	0	0	0	0	0	17	182	383	504	601	670	700	710	686	633	523	351	177	44	4	0	0	0	0	6186
24	0	0	0	0	0	15	133	320	438	543	633	661	675	655	544	449	240	99	58	6	0	0	0	0	5470
25	0	0	0	0	0	23	75	270	397	439	488	529	496	462	369	231	52	41	42	110	0	0	0	0	4025
26	0	0	0	0	0	12	55	234	301	284	158	200	224	221	61	54	108	32	41	8	0	0	0	0	1992
27	0	0	0	0	0	13	34	42	30	38	50	39	39	49	35	35	36	16	9	0	0	0	0	0	465
28	0	0	0	0	0	22	43	58	56	45	101	129	51	73	40	5	11	8	10	0	0	0	0	0	651
29	0	0	0	0	0	124	422	516	423	275	490	196	109	48	67	55	93	68	51	5	0	0	0	0	2945
30	0	0	0	0	0	32	42	193	233	95	158	66	90	187	58	43	43	27	20	1	0	0	0	0	1286
31	0	0	0	0	0	58	363	554	430	322	686	776	752	424	43	29	29	24	63	3	0	0	0	0	4557
Avg	0	0	0	0	0	26	119	294	413	461	528	510	532	497	429	394	325	224	76	6	0	0	0	0	4836
S D	0	0	0	0	0	21	94	159	201	246	262	317	293	273	272	285	242	180	53	19	0	0	0	0	2503
S/A	0	0	0	0	0	0.81	0.79	0.54	0.49	0.53	0.5	0.62	0.55	0.55	0.63	0.72	0.74	0.8	0.69	3.17	0	0	0	0	0.52
Min	0	0	0	0	0	9	32	42	30	38	31	39	36	36	35	5	1	1	1	0	0	0	0	0	465
Max	0	0	0	0	0	124	422	554	703	818	891	943	970	960	920	863	753	553	203	110	0	0	0	0	8989

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 75105 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 - May 1998

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	3	64	137	181	341	376	361	407	359	311	249	176	129	40	0	0	0	0	0	3134	
2	0	0	0	0	0	3	53	90	113	129	140	181	290	325	286	222	161	117	33	0	0	0	0	0	2143	
3	0	0	0	0	0	3	57	96	110	118	120	130	153	168	247	143	141	94	36	0	0	0	0	0	1616	
4	0	0	0	0	0	3	36	125	250	335	414	417	222	242	288	146	115	129	51	0	0	0	0	0	2771	
5	0	0	0	0	0	2	44	155	196	238	355	408	374	300	265	286	202	110	32	0	0	0	0	0	2968	
6	0	0	0	0	0	4	71	115	132	203	221	200	201	200	192	175	150	107	37	0	0	0	0	0	2008	
7	0	0	0	0	0	6	57	129	197	294	289	245	455	386	392	369	270	133	40	0	0	0	0	0	3262	
8	0	0	0	0	0	2	70	178	271	330	367	365	373	366	373	311	216	138	37	0	0	0	0	0	3396	
9	0	0	0	0	0	9	105	181	260	329	385	396	415	402	366	303	220	126	30	0	0	0	0	0	3526	
10	0	0	0	0	0	3	71	181	251	301	280	231	228	331	312	298	216	112	31	0	0	0	0	0	2845	
11	0	0	0	0	0	5	78	163	200	183	225	217	290	345	251	201	171	113	41	0	0	0	0	0	2485	
12	0	0	0	0	0	7	67	115	151	178	261	309	351	313	250	258	184	115	39	0	0	0	0	0	2598	
13	0	0	0	0	0	7	71	104	127	144	163	175	178	177	208	333	256	114	39	0	0	0	0	0	2097	
14	0	0	0	0	0	6	72	137	203	221	249	274	331	290	239	214	171	122	41	0	0	0	0	0	2572	
15	0	0	0	0	0	7	76	117	141	184	158	126	121	123	127	129	116	89	36	0	0	0	0	0	1551	
16	0	0	0	0	0	8	71	112	155	168	182	196	190	159	139	125	114	92	37	0	0	0	0	0	1749	
17	0	0	0	0	0	7	83	165	245	331	418	473	476	471	426	357	251	146	42	0	0	0	0	0	3892	
18	0	0	0	0	0	4	49	173	335	414	479	405	548	435	228	45	5	3	0	0	0	0	0	0	3128	
19	0	0	0	0	0	6	78	202	298	443	453	503	481	309	535	?	388	?	217	38	0	0	0	0	0	3950
20	0	0	0	0	0	7	76	161	143	136	149	154	142	221	308	?	97	86	73	35	0	0	0	0	0	1789
21	0	0	0	0	0	9	84	166	222	261	285	299	307	307	304	241	194	132	44	0	0	0	0	0	0	2857
22	0	0	0	0	0	9	84	151	191	210	232	239	239	224	234	237	224	137	47	0	0	0	0	0	0	2458
23	0	0	0	0	0	9	86	161	218	256	271	280	276	276	265	247	219	145	47	0	0	0	0	0	0	2755
24	0	0	0	0	0	9	85	173	245	285	293	313	317	305	317	298	287	188	66	1	0	0	0	0	0	3181
25	0	0	0	0	0	10	88	180	260	321	373	383	408	414	409	392	309	171	38	0	0	0	0	0	0	3755
26	0	0	0	0	0	6	80	183	303	378	458	524	529	515	467	505	349	160	40	0	0	0	0	0	0	4497
27	0	0	0	0	0	5	45	104	234	222	251	472	265	271	216	147	113	50	24	0	0	0	0	0	0	2417
28	0	0	0	0	0	4	60	143	194	323	541	675	490	574	291	79	52	37	17	0	0	0	0	0	0	3481
29	0	0	0	0	0	13	92	134	220	354	388	513	519	488	544	311	360	211	63	1	0	0	0	0	0	4209
30	0	0	0	0	0	10	73	215	305	393	518	533	611	639	396	?	230	183	78	23	0	0	0	0	0	4207
31	0	0	0	0	0	10	71	108	194	246	257	245	240	478	?	?	393	?	254	44	1	0	0	0	0	2541
Avg	0	0	0	0	0	6	71	147	211	267	308	330	336	336	306	240	203	124	38	0	0	0	0	0	0	2898
S D	0	0	0	0	0	3	15	32	59	87	114	136	130	122	101	102	92	50	12	0	0	0	0	0	0	785
S/A	0	0	0	0	0	0.43	0.21	0.22	0.28	0.33	0.37	0.41	0.39	0.36	0.33	0.42	0.46	0.4	0.31	1.49	0	0	0	0	0	0.27
Min	0	0	0	0	0	2	36	90	110	118	120	126	121	123	127	45	5	5	3	0	0	0	0	0	0	1551
Max	0	0	0	0	0	13	105	215	335	443	541	675	611	639	544	505	393	254	66	1	0	0	0	0	0	4497

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 5058 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