

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - October 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	0	21	187	325	376	425	300	126	311	435	372	151	27	0	0	0	0	0	0	3056
2	0	0	0	0	0	0	24	191	385	425	186	764	787	755	610	446	241	58	0	0	0	0	0	0	4873
3	0	0	0	0	0	0	25	122	357	590	743	814	837	433	18	302	121	31	1	0	0	0	0	0	4394
4	0	0	0	0	0	0	2	33	88	323	640	689	814	635	596	427	226	53	0	0	0	0	0	0	4525
5	0	0	0	0	0	0	25	186	358	527	749	825	840	769	640	444	239	55	0	0	0	0	0	0	5657
6	0	0	0	0	0	0	27	174	417	608	735	820	837	777	643	455	216	53	0	0	0	0	0	0	5762
7	0	0	0	0	0	0	11	152	396	592	737	817	838	772	647	455	226	22	0	0	0	0	0	0	5665
8	0	0	0	0	0	0	36	152	352	391	504	394	700	527	356	439	209	32	0	0	0	0	0	0	4093
9	0	0	0	0	0	0	15	162	372	543	722	455	216	274	253	197	89	17	0	0	0	0	0	0	3314
10	0	0	0	0	0	0	18	164	299	336	310	691	556	724	591	422	226	38	0	0	0	0	0	0	4374
11	0	0	0	0	0	0	21	177	379	577	618	349	828	523	483	305	153	31	0	0	0	0	0	0	4442
12	0	0	0	0	0	0	15	154	415	113	198	299	417	392	535	427	206	40	0	0	0	0	0	0	3212
13	0	0	0	0	0	0	20	168	379	530	703	735	638	508	448	380	203	38	0	0	0	0	0	0	4750
14	0	0	0	0	0	0	11	100	270	381	706	657	775	634	522	393	199	37	0	0	0	0	0	0	4686
15	0	0	0	0	0	0	19	166	380	570	700	775	805	729	602	409	191	32	0	0	0	0	0	0	5377
16	0	0	0	0	0	0	16	168	391	431	705	787	788	716	584	204	57	16	0	0	0	0	0	0	4865
17	0	0	0	0	0	0	14	161	370	538	726	781	807	648	507	373	200	34	0	0	0	0	0	0	5159
18	0	0	0	0	0	0	16	158	374	570	721	741	743	737	610	405	200	31	0	0	0	0	0	0	5305
19	0	0	0	0	0	0	15	167	317	550	619	470	341	651	583	401	188	27	0	0	0	0	0	0	4329
20	0	0	0	0	0	0	8	100	183	93	132	149	208	261	120	119	76	16	0	0	0	0	0	0	1465
21	0	0	0	0	0	0	10	104	169	445	407	354	465	368	307	158	103	16	0	0	0	0	0	0	2905
22	0	0	0	0	0	0	9	138	334	336	468	705	701	401	565	309	89	16	0	0	0	0	0	0	4071
23	0	0	0	0	0	0	5	62	87	193	319	586	681	651	511	205	47	7	0	0	0	0	0	0	3354
24	0	0	0	0	0	0	10	128	259	558	628	473	781	704	562	322	176	27	0	0	0	0	0	0	4629
25	0	0	0	0	0	0	12	149	361	557	688	742	759	709	577	402	178	16	0	0	0	0	0	0	5149
26	0	0	0	0	0	0	13	145	366	554	702	778	769	708	566	384	174	18	0	0	0	0	0	0	5178
27	0	0	0	0	0	0	11	148	360	554	691	765	769	694	566	292	171	17	0	0	0	0	0	0	5038
28	0	0	0	0	0	0	12	83	305	530	677	754	757	688	552	371	165	15	0	0	0	0	0	0	4910
29	0	0	0	0	0	0	10	110	291	526	672	748	741	677	544	361	154	14	0	0	0	0	0	0	4847
30	0	0	0	0	0	0	8	125	327	511	645	717	696	625	515	337	143	12	0	0	0	0	0	0	4661
31	0	0	0	0	0	0	7	122	320	508	646	717	722	645	504	334	137	11	0	0	0	0	0	0	4674
Avg	0	0	0	0	0	0	15	141	322	462	585	634	669	601	502	350	166	28	0	0	0	0	0	0	4475
S D	0	0	0	0	0	0	7	37	84	136	181	189	200	154	146	90	53	14	0	0	0	0	0	0	927
S/A	0	0	0	0	0	0	0.48	0.26	0.26	0.29	0.31	0.3	0.26	0.29	0.26	0.32	0.32	0.5	2.87	0	0	0	0	0	0.21
Min	0	0	0	0	0	0	2	33	87	93	132	149	126	261	18	119	47	7	0	0	0	0	0	0	1465
Max	0	0	0	0	0	0	36	191	417	608	749	825	840	777	647	455	241	58	1	0	0	0	0	0	5762

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4276 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 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	0	44	45	37	69	70	51	21	45	70	61	44	13	4	0	0	0	0	0	574
2	0	0	0	0	0	0	32	40	38	45	23	30	48	47	50	52	60	38	16	0	0	0	0	0	519
3	0	0	0	0	0	0	24	48	43	29	29	36	36	27	4	46	43	26	1	0	0	0	0	0	391
4	0	0	0	0	0	0	2	15	27	55	64	62	45	68	67	53	57	37	0	0	0	0	0	0	553
5	0	0	0	0	0	0	18	34	31	50	28	17	32	36	35	42	48	36	9	0	0	0	0	0	418
6	0	0	0	0	0	0	21	76	66	24	5	13	21	29	31	38	38	29	7	0	0	0	0	0	398
7	0	0	0	0	0	0	8	39	15	15	11	12	21	27	28	42	38	7	26	0	0	0	0	0	289
8	0	0	0	0	0	0	48	37	39	47	58	30	47	47	44	59	47	21	0	0	0	0	0	0	524
9	0	0	0	0	0	0	21	27	28	33	31	52	13	41	47	43	17	5	0	0	0	0	0	0	359
10	0	0	0	0	0	0	88	37	53	34	36	49	50	46	37	52	57	37	0	0	0	0	0	0	575
11	0	0	0	0	0	0	16	36	45	35	39	34	48	39	51	53	46	33	0	0	0	0	0	0	475
12	0	0	0	0	0	0	28	45	57	10	29	50	67	34	37	40	45	24	0	0	0	0	0	0	467
13	0	0	0	0	0	0	8	20	23	42	31	37	40	44	46	48	50	33	0	0	0	0	0	0	422
14	0	0	0	0	0	0	22	49	61	69	59	49	50	60	55	54	56	39	0	0	0	0	0	0	623
15	0	0	0	0	0	0	10	33	20	26	28	55	34	41	43	46	49	37	0	0	0	0	0	0	423
16	0	0	0	0	0	0	41	56	56	54	30	31	32	37	45	28	16	114	0	0	0	0	0	0	539
17	0	0	0	0	0	0	33	35	37	33	25	27	23	41	39	49	41	30	0	0	0	0	0	0	413
18	0	0	0	0	0	0	229	76	24	21	20	27	50	47	27	30	38	24	0	0	0	0	0	0	612
19	0	0	0	0	0	0	9	7	31	29	51	48	40	39	31	29	40	24	0	0	0	0	0	0	379
20	0	0	0	0	0	0	16	47	41	7	5	4	5	14	3	6	33	11	0	0	0	0	0	0	191
21	0	0	0	0	0	0	11	40	2	59	30	15	62	50	38	15	31	42	0	0	0	0	0	0	395
22	0	0	0	0	0	0	18	31	49	33	63	35	50	47	50	41	31	12	0	0	0	0	0	0	461
23	0	0	0	0	0	0	3	21	4	21	28	51	45	46	65	22	5	5	0	0	0	0	0	0	317
24	0	0	0	0	0	0	11	16	51	36	34	42	27	32	34	29	40	36	0	0	0	0	0	0	388
25	0	0	0	0	0	0	4	7	12	24	23	22	25	26	22	33	32	19	0	0	0	0	0	0	249
26	0	0	0	0	0	0	3	2	10	23	19	18	27	27	23	28	32	43	0	0	0	0	0	0	256
27	0	0	0	0	0	0	7	1	13	29	20	19	24	28	25	34	31	21	0	0	0	0	0	0	252
28	0	0	0	0	0	0	12	22	34	26	23	19	25	26	27	34	37	26	0	0	0	0	0	0	313
29	0	0	0	0	0	0	10	1	23	27	23	24	27	29	34	40	41	29	0	0	0	0	0	0	308
30	0	0	0	0	0	0	10	13	24	33	29	28	35	37	40	44	43	25	0	0	0	0	0	0	361
31	0	0	0	0	0	0	11	13	22	33	29	27	32	37	40	45	44	34	0	0	0	0	0	0	367
Avg	0	0	0	0	0	0	26	31	33	34	32	33	36	39	38	40	40	29	2	0	0	0	0	0	413
S/D	0	0	0	0	0	0	41	19	17	15	16	15	14	11	15	13	12	19	6	0	0	0	0	0	112
S/A	0	0	0	0	0	0	1.55	0.62	0.51	0.44	0.5	0.45	0.39	0.28	0.4	0.31	0.3	0.64	2.75	0	0	0	0	0	0.27
Min	0	0	0	0	0	0	2	1	2	7	5	4	5	14	3	6	5	5	0	0	0	0	0	0	191
Max	0	0	0	0	0	0	229	76	66	69	70	62	67	68	70	61	60	114	26	0	0	0	0	0	623

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 98909 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 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	0	26	163	270 ?	332	372	258	108	275	363	295	112	24	0	0	0	0	0	0	2598	
2	0	0	0	0	0	0	22	180	367	347 ?	169	530 ?	644 ?	630 ?	560	418	220	52	0	0	0	0	0	0	4138 ?	
3	0	0	0	0	0	0	24	110	338	496 ?	?	598 ?	?	174 ?	20 ?	241	105	27	0	0	0	0	0	0	2133 ?	
4	0	0	0	0	0	0	1	28	76	243	499 ?	470 ?	664 ?	382 ?	504 ?	399	207	47	0	0	0	0	0	0	3520 ?	
5	0	0	0	0	0	0	26	178	324	432 ?	658 ?	?	?	?	552 ?	411	223	50	0	0	0	0	0	0	2853 ?	
6	0	0	0	0	0	0	28	155	323 ?	?	?	?	?	?	?	426	204	48	0	0	0	0	0	0	1184 ?	
7	0	0	0	0	0	0	11	142	355 ?	?	?	?	?	?	?	403 ?	213	21	0	0	0	0	0	0	1145 ?	
8	0	0	0	0	0	0	27	141	312 ?	303 ?	420	286	414 ?	360 ?	294	390	194	30	0	0	0	0	0	0	3171	
9	0	0	0	0	0	0	14	155	361	466 ?	666 ?	386	205	243	221	176	83	17	0	0	0	0	0	0	2992	
10	0	0	0	0	0	0	17	155	277	275	248	504 ?	472	572 ?	497 ?	395	209	35	0	0	0	0	0	0	0	3655
11	0	0	0	0	0	0	20	168	360	479 ?	445 ?	289	608 ?	360 ?	449	278	139	28	0	0	0	0	0	0	0	3623 ?
12	0	0	0	0	0	0	13	120	280 ?	107	177	260	363	367	399 ?	407	193	37	0	0	0	0	0	0	0	2723
13	0	0	0	0	0	0	19	162	359	382 ?	558 ?	469 ?	456 ?	423	359 ?	315 ?	187	35	0	0	0	0	0	0	0	3726 ?
14	0	0	0	0	0	0	10	89	244	339	569 ?	533 ?	651 ?	568	443 ?	367	182	33	0	0	0	0	0	0	0	4026
15	0	0	0	0	0	0	20	157	357 ?	446 ?	566 ?	633 ?	?	633 ?	528 ?	386	176	29	0	0	0	0	0	0	0	3931 ?
16	0	0	0	0	0	0	14	129	354 ?	375	?	?	?	?	515 ?	162	53	14	0	0	0	0	0	0	0	1616 ?
17	0	0	0	0	0	0	13	153	327 ?	428 ?	?	674 ?	?	559 ?	338 ?	323	179	31	0	0	0	0	0	0	0	3024 ?
18	0	0	0	0	0	0	15	141	309 ?	?	?	383 ?	555 ?	610 ?	?	361 ?	189	28	0	0	0	0	0	0	0	2591 ?
19	0	0	0	0	0	0	15	165	299	363 ?	489 ?	355	310	487 ?	511 ?	387	176	25	0	0	0	0	0	0	0	3583 ?
20	0	0	0	0	0	0	7	89	166	90	128	146	204	251	118	117	67	14	0	0	0	0	0	0	0	1399
21	0	0	0	0	0	0	10	96	168	268 ?	386	343	417	332	284	151	95	15	0	0	0	0	0	0	0	2565
22	0	0	0	0	0	0	8	132	268 ?	261	424	460 ?	529 ?	368	448 ?	260	80	15	0	0	0	0	0	0	0	3251 ?
23	0	0	0	0	0	0	5	57	85	181	260	439 ?	515 ?	548 ?	365 ?	194	46	6	0	0	0	0	0	0	0	2701
24	0	0	0	0	0	0	10	124	238	347 ?	432 ?	345	?	?	458 ?	240 ?	166	25	0	0	0	0	0	0	0	2384 ?
25	0	0	0	0	0	0	12	148	269 ?	?	477 ?	595 ?	618 ?	634 ?	?	380 ?	170	15	0	0	0	0	0	0	0	3318 ?
26	0	0	0	0	0	0	13	146	?	?	?	?	485 ?	?	512 ?	364	166	17	0	0	0	0	0	0	0	1705 ?
27	0	0	0	0	0	0	13	150	?	389 ?	?	?	?	624 ?	524 ?	257	163	15	0	0	0	0	0	0	0	2135 ?
28	0	0	0	0	0	0	12	78	273 ?	423 ?	?	?	?	?	461 ?	356	155	14	0	0	0	0	0	0	0	1771 ?
29	0	0	0	0	0	0	11	115	284	422 ?	?	?	?	?	462 ?	344	144	12	0	0	0	0	0	0	0	1794 ?
30	0	0	0	0	0	0	9	123	318	428 ?	?	?	645 ?	574 ?	492	318	133	11	0	0	0	0	0	0	0	3051 ?
31	0	0	0	0	0	0	7	119	311	424 ?	?	?	?	?	481	315	127	10	0	0	0	0	0	0	0	1795 ?
Avg	0	0	0	0	0	0	15	131	285	348	418	426	466	453	413	317	153	25	0	0	0	0	0	0	0	2713
S D	0	0	0	0	0	0	7	35	76	105	156	136	162	145	130	87	50	12	0	0	0	0	0	0	0	856
S/A	0	0	0	0	0	0	0.46	0.27	0.26	0.3	0.37	0.32	0.35	0.32	0.31	0.27	0.33	0.49	3.07	0	0	0	0	0	0	0.32
Min	0	0	0	0	0	0	1	28	76	90	128	146	108	174	20	117	46	6	0	0	0	0	0	0	0	1145
Max	0	0	0	0	0	0	28	180	367	496	666	674	664	634	560	426	223	52	0	0	0	0	0	0	0	4138

Daylight Data Recovery: 0% missing; 34% exceed the 15% QC threshold -- 4276 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