

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - April 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	202	443	660	826	907	960	896	838	570	307	149	16	0	0	0	0	0	6795
2	0	0	0	0	0	0	33	178	350	677	748	936	993	891	888	700	467	187	28	0	0	0	0	0	7074
3	0	0	0	0	0	0	28	199	434	659	847	971	1026	992	878	690	478	235	26	0	0	0	0	0	7462
4	0	0	0	0	0	0	41	213	431	662	851	974	1029	998	890	730	303	237	39	0	0	0	0	0	7397
5	0	0	0	0	0	0	30	191	430	660	558	973	992	986	860	693	469	222	31	0	0	0	0	0	7092
6	0	0	0	0	0	0	36	200	432	555	396	748	791	783	534	321	290	128	16	0	0	0	0	0	5230
7	0	0	0	0	0	0	35	93	161	278	308	669	889	303	632	487	229	216	27	0	0	0	0	0	4328
8	0	0	0	0	0	0	38	209	447	679	868	961	821	890	885	521	170	106	15	0	0	0	0	0	6609
9	0	0	0	0	0	0	9	69	179	458	707	731	821	770	838	668	470	228	31	0	0	0	0	0	5980
10	0	0	0	0	0	0	45	189	445	672	854	971	1005	953	720	529	470	226	32	0	0	0	0	0	7110
11	0	0	0	0	0	0	24	173	286	250	350	558	697	573	267	184	243	122	9	0	0	0	0	0	3736
12	0	0	0	0	0	0	7	34	118	342	618	803	956	736	670	393	297	187	26	0	0	0	0	0	5187
13	0	0	0	0	0	0	28	64	233	501	527	608	869	834	550	271	175	58	15	0	0	0	0	0	4733
14	0	0	0	0	0	0	6	29	55	81	69	81	86	67	95	87	67	22	8	0	0	0	0	0	753
15	0	0	0	0	0	0	8	39	113	120	247	104	261	330	244	278	151	15	7	0	0	0	0	0	1918
16	0	0	0	0	0	0	13	115	169	232	332	354	340	255	178	157	197	68	32	0	0	0	0	0	2443
17	0	0	0	0	0	0	39	218	482	633	736	747	762	883	778	676	418	218	30	0	0	0	0	0	6619
18	0	0	0	0	0	0	62	270	516	741	923	1037	1080	1034	924	743	516	256	44	0	0	0	0	0	8147
19	0	0	0	0	0	0	74	267	507	731	912	1036	1077	1027	921	737	464	244	40	0	0	0	0	0	8038
20	0	0	0	0	0	1	68	262	495	707	895	1002	1035	950	911	702	486	249	44	0	0	0	0	0	7807
21	0	0	0	0	0	1	65	213	454	710	825	1009	866	620	343	329	197	90	16	0	0	0	0	0	5739
22	0	0	0	0	0	1	66	220	374	639	872	968	994	936	888	717	494	247	44	0	0	0	0	0	7458
23	0	0	0	0	0	1	57	111	124	3	16	24	45	108	116	110	314	251	47	0	0	0	0	0	1328
24	0	0	0	0	0	1	77	273	508	732	915	1032	1071	1012	902	722	493	248	46	0	0	0	0	0	8033
25	0	0	0	0	0	2	85	265	476	741	899	994	1014	957	853	652	405	168	18	0	0	0	0	0	7530
26	0	0	0	0	0	1	42	114	133	123	99	119	91	70	76	112	90	94	10	0	0	0	0	0	1172
27	0	0	0	0	0	0	10	36	102	129	386	270	314	445	375	210	170	84	29	0	0	0	0	0	2559
28	0	0	0	0	0	0	16	35	51	161	285	141	186	118	148	138	136	29	26	0	0	0	0	0	1472
29	0	0	0	0	0	2	65	235	425	391	620	663	728	691	800	569	482	236	30	0	0	0	0	0	5936
30	0	0	0	0	0	3	103	314	514	671	806	1029	1062	1020	908	734	507	263	51	0	0	0	0	0	7985
Avg	0	0	0	0	0	0	41	168	329	487	610	714	762	704	630	481	332	169	28	0	0	0	0	0	5456
S D	0	0	0	0	0	1	25	85	161	242	284	339	336	325	301	233	145	80	13	0	0	0	0	0	2380
S/A	0	0	0	0	0	1.51	0.62	0.5	0.49	0.5	0.47	0.47	0.44	0.46	0.48	0.49	0.44	0.47	0.45	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	6	29	51	3	16	24	45	67	76	87	67	15	7	0	0	0	0	0	753
Max	0	0	0	0	0	3	103	314	516	741	923	1037	1080	1034	924	743	516	263	51	0	0	0	0	0	8147

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 16742 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 - April 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	71	526	775	827	844	800	764	645	761	413	140	87	20	0	0	0	0	0	6672
2	0	0	0	0	0	0	44	289	402	819	691	876	906	829	950	913	797	494	137	0	0	0	0	0	8146
3	0	0	0	0	0	0	83	465	732	862	944	991	1021	1018	984	894	822	626	114	0	0	0	0	0	9558
4	0	0	0	0	0	0	116	488	719	876	957	1000	1028	1032	1011	932	260	402	115	0	0	0	0	0	8935
5	0	0	0	0	0	0	55	384	680	741	399	898	873	930	899	856	769	541	124	0	0	0	0	0	8149
6	0	0	0	0	0	0	87	387	657	473	144	499	546	561	319	182	158	64	31	0	0	0	0	0	4109
7	0	0	0	0	0	0	43	40	45	51	54	196	570	33	372	430	210	437	104	0	0	0	0	0	2586
8	0	0	0	0	0	0	106	466	718	859	945	850	473	684	795	299	41	38	23	0	0	0	0	0	6299
9	0	0	0	0	0	0	10	29	49	159	288	255	271	395	723	753	757	547	118	0	0	0	0	0	4353
10	0	0	0	0	0	0	127	379	714	832	906	932	917	804	474	391	686	521	127	0	0	0	0	0	7810
11	0	0	0	0	0	0	28	83	117	51	56	84	153	66	43	35	63	43	12	0	0	0	0	0	833
12	0	0	0	0	0	0	5	16	31	58	389	521	678	411	419	112	138	231	50	0	0	0	0	0	3059
13	0	0	0	0	0	0	179	26	62	169	164	271	529	499	283	54	47	27	22	0	0	0	0	0	2334
14	0	0	0	0	0	0	8	13	13	15	11	13	13	10	16	18	17	11	23	0	0	0	0	0	181
15	0	0	0	0	0	0	12	17	30	21	44	15	38	50	41	59	24	6	20	0	0	0	0	0	377
16	0	0	0	0	0	0	14	47	39	47	58	49	46	40	30	33	52	30	46	0	0	0	0	0	530
17	0	0	0	0	0	0	49	266	584	573	460	496	488	688	674	706	502	362	73	0	0	0	0	0	5922
18	0	0	0	0	0	21	42	14	595	906	974	1006	1025	1017	1002	956	870	650	197	0	0	0	0	0	9273
19	0	0	0	0	0	14	63	143	744	894	957	1011	1028	1015	1005	948	667	572	161	0	0	0	0	0	9221
20	0	0	0	0	0	7	63	352	730	822	889	950	945	841	934	831	760	557	161	0	0	0	0	0	8843
21	0	0	0	0	0	8	39	178	582	773	694	899	587	269	54	21	57	44	18	0	0	0	0	0	4226
22	0	0	0	0	0	5	104	188	126	561	854	819	862	851	928	885	787	562	136	0	0	0	0	0	7668
23	0	0	0	0	0	17	59	45	27	0	2	4	7	17	19	23	83	429	145	0	0	0	0	0	877
24	0	0	0	0	0	14	170	515	730	860	936	984	999	962	930	861	743	521	141	0	0	0	0	0	9366
25	0	0	0	0	0	15	175	426	560	640	765	835	832	766	723	555	348	146	23	0	0	0	0	0	6809
26	0	0	0	0	0	4	39	46	31	24	16	18	13	11	10	15	24	35	8	0	0	0	0	0	295
27	0	0	0	0	0	1	7	13	26	25	43	33	33	93	36	39	29	34	43	0	0	0	0	0	454
28	0	0	0	0	0	6	16	14	14	27	36	22	28	19	25	29	40	12	76	0	0	0	0	0	363
29	0	0	0	0	0	18	42	321	354	154	369	332	426	381	665	478	622	353	39	0	0	0	0	0	4554
30	0	0	0	0	0	19	263	602	722	608	622	923	947	946	919	871	749	526	136	0	0	0	0	0	8853
Avg	0	0	0	0	0	5	71	226	387	458	484	553	568	529	535	453	375	297	81	0	0	0	0	0	5022
S D	0	0	0	0	0	7	61	196	311	362	375	393	374	378	386	371	326	236	56	0	0	0	0	0	3398
S/A	0	0	0	0	0	1.41	0.86	0.87	0.8	0.79	0.77	0.71	0.66	0.71	0.72	0.82	0.87	0.79	0.69	0	0	0	0	0	0.68
Min	0	0	0	0	0	0	5	13	13	0	2	4	7	10	10	15	17	6	8	0	0	0	0	0	181
Max	0	0	0	0	0	21	263	602	775	906	974	1011	1028	1032	1011	956	870	650	197	0	0	0	0	0	9558

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 16742 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 - April 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	54	72	119	155	207	269	334	245	301	242	123	15	0	0	0	0	0	2153
2	0	0	0	0	0	0	30	89	165	136	197	167	171	168	140	107	90	63	15	0	0	0	0	0	1536
3	0	0	0	0	0	0	20	64	77	87	93	96	96	98	100	107	92	64	13	0	0	0	0	0	1006
4	0	0	0	0	0	0	30	67	77	77	84	89	91	89	89	122	165	164 ?	25	0	0	0	0	0	1170
5	0	0	0	0	0	0	25	75	92	166	227	175	193	165	146	132	102	73	18	0	0	0	0	0	1589
6	0	0	0	0	0	0	29	81	104	246	283	302	290	288	279	203	211	110	14	0	0	0	0	0	2440
7	0	0	0	0	0	0	31	81	138	244	264	492	364	273	343	201	132	90	16	0	0	0	0	0	2670
8	0	0	0	0	0	0	24	65	83	93	98	200	384	284	246	316	150	96	13	0	0	0	0	0	2052
9	0	0	0	0	0	0	8	59	155	346	477	501	570	423	255	172	104	74	18	0	0	0	0	0	3161
10	0	0	0	0	0	0	29	68	76	100	110	130	154	233	334	274	137	78	18	0	0	0	0	0	1741
11	0	0	0	0	0	0	20	145	223	215	304	482	555	514	232	161	212	110	7	0	0	0	0	0	3181
12	0	0	0	0	0	0	7	29	101	302	289	330	324	369	328	315	235	113	21	0	0	0	0	0	2761
13	0	0	0	0	0	0	25	55	201	387	386	364	374	384	320	235	148	50	13	0	0	0	0	0	2940
14	0	0	0	0	0	0	5	25	47 ?	69	59	69	74	58	82	75	58	19	7	0	0	0	0	0	647
15	0	0	0	0	0	0	7	34	96	103	211	90	225	285	211	239	134 ?	13	6	0	0	0	0	0	1656
16	0	0	0	0	0	0	11	99	148	198	283	309	297	220	154	135	171	60	28	0	0	0	0	0	2113
17	0	0	0	0	0	0	33	118	167	218	357	293	302	262	227	199	160	113	21	0	0	0	0	0	2471
18	0	0	0	0	0	0	61	272	183	96	102	109	112	109	104	95	82	63	20	0	0	0	0	0	1408
19	0	0	0	0	0	0	70	210	100	92	103	101	103	102	96	93	125	78	19	0	0	0	0	0	1292
20	0	0	0	0	0	0	60	129	95	118	141	121	139	185	143	136	104	81	23	0	0	0	0	0	1475
21	0	0	0	0	0	1	60	145	131	153	236	174	308	372	299	314	169	77	14	0	0	0	0	0	2452
22	0	0	0	0	0	1	48	161	304	228	143	206	173	158	122	110	96	74	25	0	0	0	0	0	1849
23	0	0	0	0	0	1	48	94	106 ?	2 ?	14	21	39	93	100	95	273	124	30	0	0	0	0	0	1040
24	0	0	0	0	0	1	46	85	99	105	113	113	117	128	132	129	115	86	27	0	0	0	0	0	1296
25	0	0	0	0	0	1	53	115	158	274	240	212	217	252	253	268	229	118	16	0	0	0	0	0	2408
26	0	0	0	0	0	1	36	98	114	106	85	103	78	60	65 ?	96 ?	78	82	9	0	0	0	0	0	1010
27	0	0	0	0	0	0	9	31	87	111	348	239	283	359	345	182	156	74	25	0	0	0	0	0	2249
28	0	0	0	0	0	0	13	30	43	141	254	121	159	101	127	118	116	25	26 ?	0	0	0	0	0	1276
29	0	0	0	0	0	1	59	105	225	274	302	349	318	338	251	226	166	117	25	0	0	0	0	0	2758
30	0	0	0	0	0	3	53	87	99	223	257	157	149	143	139	128	119	94	33	0	0	0	0	0	1683
Avg	0	0	0	0	0	0	32	92	126	168	207	211	231	228	197	176	146	83	19	0	0	0	0	0	1916
S D	0	0	0	0	0	1	19	54	57	89	110	128	132	120	89	75	53	32	7	0	0	0	0	0	687
S/A	0	0	0	0	0	1.57	0.59	0.58	0.46	0.53	0.53	0.61	0.57	0.52	0.45	0.43	0.37	0.39	0.37	0	0	0	0	0	0.36
Min	0	0	0	0	0	0	5	25	43	2	14	21	39	58	65	75	58	13	6	0	0	0	0	0	647
Max	0	0	0	0	0	3	70	272	304	387	477	501	570	514	345	316	273	164	33	0	0	0	0	0	3181

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 16742 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