

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Bethune-Cookman College - August 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	1	67	175	83	332	515	587	776	683	885	491	266	243	64	3	0	0	0	0	5170
2	0	0	0	0	0	4	83	238	453	633	814	904	1038	1000	881	736	470	40	9	0	0	0	0	0	7305
3	0	0	0	0	0	3	61	106	185	486	812	909	781	763	794	304	29	15	10	1	0	0	0	0	5259
4	0	0	0	0	0	2	120	220	477	673	766	738	110	302	418	366	372	279	105	1	0	0	0	0	4949
5	0	0	0	0	0	2	77	199	348	516	317	592	257	380	572	507	369	92	46	1	0	0	0	0	4275
6	0	0	0	0	0	1	44	220	378	601	777	530	647	703	172	169	133	73	41	0	0	0	0	0	4489
7	0	0	0	0	0	1	47	214	413	589	408	777	630	759	817	139	17	7	3	0	0	0	0	0	4821
8	0	0	0	0	0	1	47	214	360	666	863	834	810	800	771	715	210	97	31	0	0	0	0	0	6418
9	0	0	0	0	0	1	78	192	442	661	830	991	919	611	800	516	511	209	35	0	0	0	0	0	6796
10	0	0	0	0	0	1	83	211	345	622	663	503	91	79	257	317	454	247	41	0	0	0	0	0	3915
11	0	0	0	0	0	0	61	232	242	391	631	917	1018	977	333	99	22	18	11	0	0	0	0	0	4953
12	0	0	0	0	0	1	82	229	418	601	745	356	358	950	888	721	463	155	25	0	0	0	0	0	5992
13	0	0	0	0	0	1	32	241	452	622	696	803	1008	942	758	703	485	126	12	0	0	0	0	0	6880
14	0	0	0	0	0	1	56	232	457	668	827	908	799	881	717	512	363	161	77	1	0	0	0	0	6659
15	0	0	0	0	0	1	61	238	460	636	849	757	973	922	439	454	499	206	62	0	0	0	0	0	6555
16	0	0	0	0	0	0	41	136	274	398	655	577	632	619	654	454	212	122	30	0	0	0	0	0	4806
17	0	0	0	0	0	1	59	220	435	679	688	767	1045	977	745	707	472	278	62	0	0	0	0	0	7135
18	0	0	0	0	0	0	61	235	457	618	692	631	767	960	801	120	20	39	28	0	0	0	0	0	5430
19	0	0	0	0	0	0	73	235	437	638	759	657	678	928	764	648	435	79	14	0	0	0	0	0	6345
20	0	0	0	0	0	0	33	155	345	572	759	999	957	911	796	307	189	153	77	0	0	0	0	0	6254
21	0	0	0	0	0	0	52	217	384	544	492	177	490	416	323	554	379	202	34	0	0	0	0	0	4263
22	0	0	0	0	0	0	53	224	428	630	713	645	726	867	658	606	448	219	40	0	0	0	0	0	6258
23	0	0	0	0	0	0	52	226	265	542	273	743	874	963	779	177	201	249	78	0	0	0	0	0	5422
24	0	0	0	0	0	0	39	160	306	691	825	921	968	669	729	566	404	113	16	0	0	0	0	0	6408
25	0	0	0	0	0	0	47	158	374	596	904	368	268	412	639	624	408	125	57	0	0	0	0	0	4981
26	0	0	0	0	0	0	45	221	441	653	718	936	959	950	827	689	245	213	38	0	0	0	0	0	6933
27	0	0	0	0	0	0	23	136	251	211	742	762	839	681	726	749	445	106	20	0	0	0	0	0	5691
28	0	0	0	0	0	0	43	207	414	620	790	902	967	957	768	580	261	108	11	0	0	0	0	0	6629
29	0	0	0	0	0	0	41	193	398	598	776	893	934	889	795	616	343	152	22	0	0	0	0	0	6652
30	0	0	0	0	0	0	40	163	408	613	618	680	742	778	674	483	321	162	6	0	0	0	0	0	5688
31	0	0	0	0	0	0	15	157	339	589	668	826	855	859	810	509	390	110	30	0	0	0	0	0	6157
Avg	0	0	0	0	0	1	55	200	370	577	696	729	739	761	677	488	317	142	37	0	0	0	0	0	5790
S D	0	0	0	0	0	1	21	36	90	108	151	196	268	229	191	196	152	77	25	1	0	0	0	0	931
S/A	0	0	0	0	0	1.28	0.37	0.18	0.24	0.19	0.22	0.27	0.36	0.3	0.28	0.4	0.48	0.54	0.68	2.37	0	0	0	0	0.16
Min	0	0	0	0	0	0	15	106	83	211	273	177	91	79	172	99	17	7	3	0	0	0	0	0	3915
Max	0	0	0	0	0	4	120	241	477	691	904	999	1045	1000	888	749	511	279	105	3	0	0	0	0	7305

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4909 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 - August 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	3	45	46	19	45	101	78	275	275	700	238	35	233	28	16	0	0	0	0	2138
2	0	0	0	0	0	25	121	398	544	598	588	756	907	885	825	812	564	13	7	3	0	0	0	0	7047
3	0	0	0	0	0	30	53	40	46	103	646	772	562	612	640	182	6	5	8	3	0	0	0	0	3707
4	0	0	0	0	0	32	429	370	681	752	641	503	14	26	29	25	138	281	167	5	0	0	0	0	4093
5	0	0	0	0	0	13	106	145	178	291	113	141	26	49	93	134	198	25	46	8	0	0	0	0	1566
6	0	0	0	0	0	6	41	93	180	351	422	178	168	308	27	35	13	34	37	3	0	0	0	0	1897
7	0	0	0	0	0	7	28	114	260	308	94	329	251	339	408	18	3	1	10	5	0	0	0	0	2175
8	0	0	0	0	0	6	39	118	213	419	534	269	244	297	320	447	48	30	25	2	0	0	0	0	3011
9	0	0	0	0	0	7	51	187	486	607	666	675	541	140	532	122	355	160	29	3	0	0	0	0	4560
10	0	0	0	0	0	9	53	179	230	579	413	175	13	13	22	50	224	162	28	0	0	0	0	0	2150
11	0	0	0	0	0	2	55	67	62	71	262	661	758	767	142	19	5	8	10	0	0	0	0	0	2890
12	0	0	0	0	0	27	46	43	238	397	447	137	46	623	879	819	598	201	6	1	0	0	0	0	4505
13	0	0	0	0	0	32	17	7	357	677	556	557	761	761	684	756	606	162	7	1	0	0	0	0	5941
14	0	0	0	0	0	4	23	0	186	754	807	781	591	677	524	439	438	47	42	4	0	0	0	0	5317
15	0	0	0	0	0	1	40	0	39	519	776	495	680	642	272	364	641	282	86	6	0	0	0	0	4844
16	0	0	0	0	0	2	41	54	74	54	250	120	163	160	257	141	39	57	31	0	0	0	0	0	1444
17	0	0	0	0	0	7	38	2	22	185	411	448	873	889	672	794	634	475	127	0	0	0	0	0	5578
18	0	0	0	0	0	6	63	0	14	41	465	431	568	818	681	52	4	13	23	0	0	0	0	0	3179
19	0	0	0	0	0	6	72	290	551	666	627	383	399	698	592	542	367	31	14	0	0	0	0	0	5235
20	0	0	0	0	0	4	39	83	191	382	446	686	730	633	431	66	53	56	99	0	0	0	0	0	3899
21	0	0	0	0	0	9	69	308	267	375	285	28	79	83	47	249	271	163	35	0	0	0	0	0	2268
22	0	0	0	0	0	26	66	340	534	633	580	323	421	603	475	551	508	327	77	0	0	0	0	0	5463
23	0	0	0	0	0	0	54	181	90	387	133	418	546	722	547	31	73	191	82	0	0	0	0	0	3455
24	0	0	0	0	0	1	23	54	162	635	705	693	823	412	475	410	282	52	14	0	0	0	0	0	4741
25	0	0	0	0	0	1	70	192	413	486	735	193	39	137	359	503	468	145	137	0	0	0	0	0	3878
26	0	0	0	0	0	1	55	193	545	666	557	765	792	835	757	793	182	448	121	0	0	0	0	0	6711
27	0	0	0	0	0	0	25	77	65	34	486	498	561	342	412	759	454	59	43	0	0	0	0	0	3816
28	0	0	0	0	0	0	49	191	410	549	632	659	634	647	510	442	115	66	13	0	0	0	0	0	4917
29	0	0	0	0	0	0	41	189	356	479	580	658	671	638	618	517	258	128	22	0	0	0	0	0	5154
30	0	0	0	0	0	0	34	165	431	542	358	290	328	364	300	280	111	112	6	0	0	0	0	0	3322
31	0	0	0	0	0	0	17	114	237	321	417	471	447	535	615	392	311	34	187	0	0	0	0	0	4097

Avg	0	0	0	0	0	9	61	137	261	416	475	438	449	482	447	354	258	129	51	2	0	0	0	0	3968
S D	0	0	0	0	0	10	71	111	188	223	197	230	281	273	242	272	214	125	50	3	0	0	0	0	1461
S/A	0	0	0	0	0	1.21	1.16	0.81	0.72	0.53	0.42	0.53	0.63	0.57	0.54	0.77	0.83	0.97	0.99	1.73	0	0	0	0	0.37
Min	0	0	0	0	0	0	17	0	14	34	94	28	13	13	22	18	3	1	6	0	0	0	0	0	1444
Max	0	0	0	0	0	32	429	398	681	754	807	781	907	889	879	819	641	475	187	16	0	0	0	0	7047

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 36875 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 - August 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	1	59	158	72	298	427	512	507	421	274	313	246	154	61	2	0	0	0	0	3504
2	0	0	0	0	0	4	61	91	145	190	307	183	150	158	165	136	138	35	8	0	0	0	0	0	1770
3	0	0	0	0	0	3	54	92	159	409	244	178	231	178	244	162	25	13	9	1	0	0	0	0	2001
4	0	0	0	0	0	2	44	78	94	122	211	261	97	277	392	348	299	200 ?	78	1	0	0	0	0	2503
5	0	0	0	0	0	2	58	146	244	305	222	459	231	334	492	414	259	82	38	1	0	0	0	0	3287
6	0	0	0	0	0	1	39	184	276	342	411	363	483	410	149	144	125	62	35	0	0	0	0	0	3025
7	0	0	0	0	0	1	44	170	267	365	328	466	385	441	463	129	15	7	2	0	0	0	0	0	3081
8	0	0	0	0	0	1	41	171	246	357	404	580	572	518	497	381	184	87	27	0	0	0	0	0	4064
9	0	0	0	0	0	1	69	118	171	219	256	354	393	479	344	424	323	145	30	0	0	0	0	0	3328
10	0	0	0	0	0	1	76	141	217	201	311	339	78	68	238	281	339	188	36	0	0	0	0	0	2512
11	0	0	0	0	0	0	53	194	208	339	400	292	283	255	207	85	19	15	10	0	0	0	0	0	2360
12	0	0	0	0	0	1	76	207	283	309	368	225	314	366	137	129	131	78	24	0	0	0	0	0	2650
13	0	0	0	0	0	0	30	243	244	135	216	279	272	228	179	158	151	59	11	0	0	0	0	0	2206
14	0	0	0	0	0	1	54	235	346	122	140	177	229	246	266	200	112	146	73	1	0	0	0	0	2346
15	0	0	0	0	0	1	59	244	438	257	187	294	318	322	213	196	152	107	48	0	0	0	0	0	2835
16	0	0	0	0	0	0	36	117	234	360	439	465	475	471	432	356	191	102	26	0	0	0	0	0	3705
17	0	0	0	0	0	1	55	220	422	483 ?	341	347	206	149	174	141	133	115	41	0	0	0	0	0	2828
18	0	0	0	0	0	0	56	243	443	407 ?	297	228	222	200	224	82	20	35	26	0	0	0	0	0	2484
19	0	0	0	0	0	0	63	130	137	161	231	301	296	282	266	266	237	69	12	0	0	0	0	0	2452
20	0	0	0	0	0	0	28	124	239	297	381	361	259	323	436	258	162	136	68	0	0	0	0	0	3074
21	0	0	0	0	0	0	41	111	239	279	250	151	414	339	284	382	240	148	31	0	0	0	0	0	2908
22	0	0	0	0	0	0	43	105	141	179	227	345	324	311	264	226	180	113	29	0	0	0	0	0	2487
23	0	0	0	0	0	0	45	166	213	270	165	353	354	299	318	154	167	186	57 ?	0	0	0	0	0	2749
24	0	0	0	0	0	0	36	143	219	239	231	282	187	288	334	279	253	98	14	0	0	0	0	0	2604
25	0	0	0	0	0	0	38	95	146	246	288	194	231	290	336	287	169	73	45	0	0	0	0	0	2438
26	0	0	0	0	0	0	38	150	150	180	251	233	209	186	200	144	148	78	22	0	0	0	0	0	1990
27	0	0	0	0	0	0	20	111	216	187	328	302	309	368	387	231	211	86	16	0	0	0	0	0	2773
28	0	0	0	0	0	0	38	143	195	233	262	297	371	369	350	277	202	86	9	0	0	0	0	0	2833
29	0	0	0	0	0	0	37	129	209	262	292	290	304	310	291	263	212	116	19	0	0	0	0	0	2735
30	0	0	0	0	0	0	36	106	179	234	322	416	435	451	435	286	269	125	6	0	0	0	0	0	3299
31	0	0	0	0	0	0	13	116	219	360	320	396	437	376	310	248	227	101	29	0	0	0	0	0	3152
Avg	0	0	0	0	0	1	46	151	226	269	292	320	309	313	300	238	179	98	30	0	0	0	0	0	2774
S.D	0	0	0	0	0	1	15	48	88	89	77	103	117	105	102	95	83	49	20	0	0	0	0	0	502
S/A	0	0	0	0	0	1.27	0.32	0.32	0.39	0.33	0.27	0.32	0.38	0.34	0.34	0.4	0.47	0.5	0.66	2.41	0	0	0	0	0.18
Min	0	0	0	0	0	0	13	78	72	122	140	151	78	68	137	82	15	7	2	0	0	0	0	0	1770
Max	0	0	0	0	0	4	76	244	443	483	439	580	572	518	497	424	339	200	78	2	0	0	0	0	4064

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 4909 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