

Bethune-Cookman College
29.18 N Latitude 81.02 W Longitude 20 Meters AMSL Time Zone -5

May 2001

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	6	88	277	469	683	759	728	743	739	848	670	427	136	32	0	0	0	0	0	6605	
2	0	0	0	0	0	2	22	91	182	289	262	793	717	813	842	662	447	218	54	0	0	0	0	0	5395	
3	0	0	0	0	0	8	93	243	336	401	656	505	107	81	216	163	185	127	27	0	0	0	0	0	3146	
4	0	0	0	0	0	11	96	291	511	689	889	984	972	964	847	670	459	227	43	0	0	0	0	0	7654	
5	0	0	0	0	0	16	98	300	520	720	612	852	975	935	768	617	383	186	39	0	0	0	0	0	7023	
6	0	0	0	0	0	12	125	252	542	748	906	999	994	843	774	673	449	219	44	0	0	0	0	0	7580	
7	0	0	0	0	0	9	95	283	496	692	847	939	981	697	101	210	176	140	33	0	0	0	0	0	5699	
8	0	0	0	0	0	11	57	231	511	356	565	847	1003	952	868	577	284	201	67	0	0	0	0	0	6530	
9	0	0	0	0	0	11	103	286	324	664	717	718	710	410	383	336	427	225	38	0	0	0	0	0	5352	
10	0	0	0	0	0	10	138	295	382	764	918	1049	973	960	843	648	421	195	35	0	0	0	0	0	7631	
11	0	0	0	0	0	17	123	312	530	727	883	980	1000	955	841	663	453	225	45	3	0	0	0	0	7756	
12	0	0	0	0	0	14	95	301	546	737	881	980	1002	957	844	673	464	227	49	1	0	0	0	0	7772	
13	0	0	0	0	0	14	115	315	528	718	872	858	961	841	564	449	473	223	52	2	0	0	0	0	6985	
14	0	0	0	0	0	14	106	291	496	651	858	976	987	950	825	658	438	207	52	4	0	0	0	0	7511	
15	0	0	0	0	0	12	125	299	529	710	919	935	993	941	821	644	445	226	47	2	0	0	0	0	7650	
16	0	0	0	0	0	15	109	306	520	717	871	964	981	863	828	662	453	226	52	1	0	0	0	0	7568	
17	0	0	0	0	0	14	118	305	518	712	870	955	954	788	557	383	439	221	54	3	0	0	0	0	6891	
18	0	0	0	0	0	12	114	308	521	715	865	947	994	836	579	443	308	177	28	1	0	0	0	0	6849	
19	0	0	0	0	0	18	108	259	420	565	859	953	987	944	813	639	440	223	49	0	0	0	0	0	7278	
20	0	0	0	0	0	23	88	191	381	438	534	884	497	762	546	597	415	120	61	5	0	0	0	0	5543	
21	0	0	0	0	0	17	109	317	527	694	749	780	788	894	839	661	446	238	57	4	0	0	0	0	7120	
22	0	0	0	0	0	16	125	319	523	689	631	642	677	752	633	429	113	32	9	2	0	0	0	0	5591	
23	0	0	0	0	0	15	79	292	457	474	702	806	995	878	762	494	311	176	39	4	0	0	0	0	6483	
24	0	0	0	0	0	12	92	259	471	742	928	1020	1047	999	882	708	498	268	72	4	0	0	0	0	8003	
25	0	0	0	0	0	18	131	321	531	732	900	990	1009	956	774	635	431	171	12	4	0	0	0	0	7616	
26	0	0	0	0	0	12	70	160	457	646	805	863	821	890	820	638	329	132	55	3	0	0	0	0	6701	
27	0	0	0	0	0	17	125	217	531	735	884	980	1004	952	839	637	422	217	63	1	0	0	0	0	7625	
28	0	0	0	0	0	17	126	330	526	617	777	664	544	596	240	307	364	313	56	1	0	0	0	0	5479	
29	0	0	0	0	0	11	77	234	556	616	740	931	161	626	762	559	458	206	58	2	0	0	0	0	5997	
30	0	0	0	0	0	20	142	328	512	650	659	620	602	431	606	329	59	114	34	3	0	0	0	0	5109	
31	0	0	0	0	0	25	127	304	518	682	706	537	746	555	750	502	392	90	14	8	0	0	0	0	5954	
Avg	0	0	0	0	0	14	104	275	480	644	775	861	836	799	697	546	381	191	44	2	0	0	0	0	6648	
S D	0	0	0	0	0	5	25	53	82	123	148	147	243	207	210	152	111	57	16	2	0	0	0	0	1097	
S/A	0	0	0	0	0	0.33	0.24	0.19	0.17	0.19	0.19	0.17	0.29	0.26	0.3	0.28	0.29	0.3	0.36	1.04	0	0	0	0	0	0.16
Min	0	0	0	0	0	2	22	91	182	289	262	505	107	81	101	163	59	32	9	0	0	0	0	0	3146	
Max	0	0	0	0	0	25	142	330	556	764	928	1049	1047	999	882	708	498	313	72	8	0	0	0	0	8003	
n	0	0	0	0	0	179	372	372	372	372	372	372	371	372	372	372	372	372	370	38	0	0	0	0	5050	

Daylight Data Recovery: 0.0% missing; 0.0% exceed the 15% QC threshold -- 5051 total daylight measurements.

Instrument: Eppley PSP Serial Number: 13434F3 Calibration Factor: 8.670 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Bethune-Cookman College
29.18 N Latitude 81.02 W Longitude 20 Meters AMSL Time Zone -5

May 2001

Estimated Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Instrument: Calculated
Watt-Hours per Square Meter

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	30	50	6 ?	45	41	51	59	154	425	782	738	511	93	31	0	0	0	0	0	3019
2	0	0	0	0	0	10 ?	18	34	49	50	43	77	197	540	796	722	598	360	76	0	0	0	0	0	3567
3	0	0	0	0	0	40 ?	57	56	78	74	86	52	16	13	35	33	27	36	32	0	0	0	0	0	633
4	0	0	0	0	0	68	68	23	46	43	41	78	631	790	808	764	670	421	73	0	0	0	0	0	4525
5	0	0	0	0	0	58	63	31	44	34	71	106	674	752	548	516	338	108	32	0	0	0	0	0	3375
6	0	0	0	0	0	39	138	29	31	12	24	308	810	628	618	761	611	373	72	0	0	0	0	0	4453
7	0	0	0	0	0	26	47	39	51	53	68	345	661	246	16	43	57	49	31	0	0	0	0	0	1733
8	0	0	0	0	0	52	47	42	36	70	80	246	743	771	808	520	130	152	67	0	0	0	0	0	3764
9	0	0	0	0	0	37	91	53	62	106	83	261	143	55	63	70	502	296	45	0	0	0	0	0	1869
10	0	0	0	0	0	75	103	68	68	20	143	808	752	853	764	541	440	172	31	0	0	0	0	0	4838
11	0	0	0	0	0	40	108	12	24	26	281	836	849	840	803	705	570	363	48	86	840	0	0	0	5591
12	0	0	0	0	0	48	42	34	42	37	413	837	851	849	821	763	660	410	93	57	0	0	0	0	5957
13	0	0	0	0	0	30	97	15	22	30	543	620	708	592	338	237	468	313	74	57	0	0	0	0	4143
14	0	0	0	0	0	25	51	42	57	82	593	761	777	756	621	628	485	230	59	52	0	0	0	0	5221
15	0	0	0	0	0	28	54	42	59	105	671	636	732	739	682	596	512	315	41	27	0	0	0	0	5238
16	0	0	0	0	0	32	63	25	32	191	746	800	771	683	756	717	607	370	83	18	0	0	0	0	5895
17	0	0	0	0	0	34	79	33	34	311	761	790	758	554	383	285	529	333	77	27	0	0	0	0	4989
18	0	0	0	0	0	29	77	32	37	436	752	773	786	547	257	162	173	149	25	4	0	0	0	0	4241
19	0	0	0	0	0	13	90	31	55	397	745	777	807	797	718	611	517	329	57	26	0	0	0	0	5971
20	0	0	0	0	0	50	53	61	52	53	56	377	69	307	138	503	472	69	50	29	0	0	0	0	2339
21	0	0	0	0	0	31	42	40	129	556	487	447	523	745	781	711	539	357	83	28	0	0	0	0	5500
22	0	0	0	0	0	32	105	20	230	642	368	360	365	457	436	281	40	12	8	5	0	0	0	0	3362
23	0	0	0	0	0	36	53	68	89	114	336	311	697	554	486	258	150	61	27	35	0	0	0	0	3275
24	0	0	0	0	0	19	45	85	283	745	921	945	963	953	908	841	753	565	202	24 ?	0	0	0	0	8251
25	0	0	0	0	0	33	83	39	482	725	822	848	836	812	653	512	294	69	10	25	0	0	0	0	6244
26	0	0	0	0	0	24	41	54	210	413	595	557	517	640	674	537	203	46	27	10	0	0	0	0	4549
27	0	0	0	0	0	22	93	76	532	739	760	827	831	807	739	535	376	243	112	16	0	0	0	0	6709
28	0	0	0	0	0	43	114	260	554	339	635	336	133	139	30	112	250	392	91	40	0	0	0	0	3468
29	0	0	0	0	0	17	44	197	670	428	479	693	21	283	517	508	561	218	27	69	0	0	0	0	4731
30	0	0	0	0	0	61	158	368	573	540	392	316	257	146	409	187	3	36	17	12 ?	0	0	0	0	3474
31	0	0	0	0	0	84	149	395	555	575	490	254	470	271	494	331	215	34	13	55	0	0	0	0	4387
Avg	0	0	0	0	0	38	75	75	169	258	404	498	565	566	544	475	396	225	55	23	0	0	0	0	4365
S D	0	0	0	0	0	17	34	96	206	254	292	289	293	265	271	246	215	152	39	24	0	0	0	0	1587
S/A	0	0	0	0	0	0.46	0.46	1.29	1.22	0.98	0.72	0.58	0.52	0.47	0.5	0.52	0.54	0.68	0.7	1.05	0	0	0	0	0.36
Min	0	0	0	0	0	10	18	6	22	12	24	52	16	13	16	33	3	12	8	0	0	0	0	0	633
Max	0	0	0	0	0	84	158	395	670	745	921	945	963	953	908	841	753	565	202	86	0	0	0	0	8251
n	0	0	0	0	0	170	369	369	372	372	372	372	372	372	372	372	372	372	368	36	0	0	0	0	5032

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 5051 total daylight measurements.

Instrument: Calculated Serial Number: Estimated Calibration Factor: Global = Diffuse + Direct * COS (Zenith Angle) Calibration Date: N/A

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Bethune-Cookman College
29.18 N Latitude 81.02 W Longitude 20 Meters AMSL Time Zone -5

May 2001

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	5	81	277	394 ?	503 ?	601 ?	537 ?	565	347	194	155	158	109	28	0	0	0	0	0	3953 ?
2	0	0	0	0	0	2	19	78	154	220	225	580 ?	441	315	174	157	134	100	42	0	0	0	0	0	2644
3	0	0	0	0	0	7	84	220	291	346	488 ?	456	91	69	187	140	171	115	24	0	0	0	0	0	2688
4	0	0	0	0	0	10	86	282	413 ?	580 ?	?	851 ?	361	228	167	134	107	86	32	0	0	0	0	0	3337 ?
5	0	0	0	0	0	15	88	287	454 ?	?	500	666 ?	321	233	306	256	206	148	35	0	0	0	0	0	3515 ?
6	0	0	0	0	0	10	107	240	?	?	?	465 ?	207	253	258	136	126	94	32	0	0	0	0	0	1929 ?
7	0	0	0	0	0	8	87	268	466	706 ?	770 ?	584	337	463	88	180	147	124	29	0	0	0	0	0	4256
8	0	0	0	0	0	9	49	148 ?	443 ?	303	464	584	280	232	186	198	209	151	57	0	0	0	0	0	3314
9	0	0	0	0	0	10	88	150 ?	271	501 ?	603	466	570	358	330	287	165	126	31	0	0	0	0	0	3956
10	0	0	0	0	0	9	70 ?	237 ?	340	?	637 ?	276	240	158	193	271	185	131	32	0	0	0	0	0	2778 ?
11	0	0	0	0	0	16	110	307	?	?	505 ?	179	171	166	159	161	149	101	38	2	0	0	0	0	2065 ?
12	0	0	0	0	0	12	87	288	447 ?	?	412 ?	177	170	159	147	131	109	85	34	0	0	0	0	0	2257 ?
13	0	0	0	0	0	13	100	309	427 ?	?	349	265	268	282	271	283	220	116	40	1	0	0	0	0	2943 ?
14	0	0	0	0	0	13	97	274	422 ?	559 ?	328	244	226	238	294	211	175	124	43	3	0	0	0	0	3250
15	0	0	0	0	0	11	115	282	322 ?	546 ?	323	323	276	244	240	218	168	115	39	2	0	0	0	0	3224
16	0	0	0	0	0	13	98	296	443 ?	452 ?	207	194	224	221	183	148	123	97	37	1	0	0	0	0	2736
17	0	0	0	0	0	13	103	292	448 ?	388 ?	193	194	210	262	226	190	151	103	41	2	0	0	0	0	2815
18	0	0	0	0	0	11	99	295	441 ?	348	195	202	222	317	356	330	211	124	23	1	0	0	0	0	3177
19	0	0	0	0	0	18	92	246	387	250	195	203	194	189	197	199	158	106	38	0	0	0	0	0	2473
20	0	0	0	0	0	20	78	166	351	398	484	521	429	476	428	243	150	93	54	4	0	0	0	0	3895
21	0	0	0	0	0	16	101	300	435	261	317	348	274	190	169	148	148	110	42	3	0	0	0	0	2862
22	0	0	0	0	0	15	106	311	362	197	303	295	318	317	264	219	88	28	8	2	0	0	0	0	2831
23	0	0	0	0	0	13	69	263	401	383	406	506	308	351	343	311	224	154	35	3	0	0	0	0	3771
24	0	0	0	0	0	11	82	224	289	163	105	106	98	95	101	98	82	66	37	4	0	0	0	0	1559
25	0	0	0	0	0	17	115	303	230	170	165	170	184	185	207	262	264	144	10	3	0	0	0	0	2429
26	0	0	0	0	0	11	60	137	321	326	270	323	311	282	239	246	211	115	51	3	0	0	0	0	2904
27	0	0	0	0	0	16	106	185	199	163	203	180	183	184	199	246	211	131	43	1	0	0	0	0	2250
28	0	0	0	0	0	16	104	211	190	364	211	339	413	464	214	229	212	171	37	1	0	0	0	0	3176
29	0	0	0	0	0	10	67	141	145	292	312	259	138	360	313	192	141	118	54	1	0	0	0	0	2544
30	0	0	0	0	0	17	110	166	161	232	306	315	348	291	254	185	58	100	32	3	0	0	0	0	2578
31	0	0	0	0	0	22	93	131	176	233	267	292	282	294	323	250	264	77	12	7	0	0	0	0	2723
Avg	0	0	0	0	0	13	89	236	339	355	357	358	279	265	233	207	165	112	35	2	0	0	0	0	2930
S D	0	0	0	0	0	4	21	66	107	147	164	178	117	99	77	59	50	28	12	2	0	0	0	0	633
S/A	0	0	0	0	0	0.34	0.23	0.28	0.31	0.41	0.46	0.5	0.42	0.37	0.33	0.28	0.3	0.25	0.33	1.07	0	0	0	0	0.22
Min	0	0	0	0	0	2	19	78	145	163	105	106	91	69	88	98	58	28	8	0	0	0	0	0	1559
Max	0	0	0	0	0	22	115	311	466	706	770	851	570	476	428	330	264	171	57	7	0	0	0	0	4256
n	0	0	0	0	0	179	368	360	268	245	312	342	368	372	372	372	372	372	370	38	0	0	0	0	4713

Daylight Data Recovery: 0.0% missing; 6.7% exceed the 15% QC threshold -- 5051 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25951F3 Calibration Factor: 7.600 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.