

February 2002

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	0	0	32	145	369	404	515	740	556	591	223	170	40	0	0	0	0	0	0	3786
2	0	0	0	0	0	0	0	39	114	227	199	342	461	381	396	147	204	21	0	0	0	0	0	0	2531
3	0	0	0	0	0	0	0	45	194	334	500	577	447	520	579	455	179	49	0	0	0	0	0	0	3879
4	0	0	0	0	0	0	0	37	214	329	368	291	481	714	600	429	252	62	0	0	0	0	0	0	3777
5	0	0	0	0	0	0	0	37	172	146	487	486	609	634	411	162	79	19	0	0	0	0	0	0	3243
6	0	0	0	0	0	0	0	45	192	376	562	589	680	669	565	417	229	55	1	0	0	0	0	0	4379
7	0	0	0	0	0	0	0	25	166	246	222	155	133	188	78	85	94	14	2	0	0	0	0	0	1408
8	0	0	0	0	0	0	0	19	77	167	296	400	365	555	509	450	233	69	1	0	0	0	0	0	3142
9	0	0	0	0	0	0	0	39	250	411	574	707	764	695	631	440	209	64	2	0	0	0	0	0	4787
10	0	0	0	0	0	0	0	23	124	352	360	457	356	305	385	181	66	27	0	0	0	0	0	0	2635
11	0	0	0	0	0	0	0	55	199	283	391	475	696	716	610	411	216	52	3	0	0	0	0	0	4107
12	0	0	0	0	0	0	0	53	225	389	464	630	680	655	379	304	163	48	1	0	0	0	0	0	3990
13	0	0	0	0	0	0	0	25	55	74	159	234	160	158	126	69	58	17	0	0	0	0	0	0	1135
14	0	0	0	0	0	0	0	13	75	174	476	724	748	711	652	489	274	84	5	0	0	0	0	0	4426
15	0	0	0	0	0	0	0	33	210	361	584	539	598	673	620	401	206	63	3	0	0	0	0	0	4293
16	0	0	0	0	0	0	0	15	66	93	146	127	113	151	236	295	267	74	1	0	0	0	0	0	1583
17	0	0	0	0	0	0	0	51	245	473	647	780	825	786	680	514	294	86	1	0	0	0	0	0	5382
18	0	0	0	0	0	0	0	30	130	268	598	767	787	785	667	517	284	111	7	0	0	0	0	0	4952
19	0	0	0	0	0	0	0	32	236	431	504	571	774	786	690	431	281	79	6	0	0	0	0	0	4822
20	0	0	0	0	0	0	1	44	200	314	606	580	674	548	305	176	106	32	0	0	0	0	0	0	3587
21	0	0	0	0	0	0	2	55	240	391	532	515	513	363	415	216	142	26	3	0	0	0	0	0	3413
22	0	0	0	0	0	0	0	9	58	86	78	71	80	112	97	70	30	9	1	0	0	0	0	0	701
23	0	0	0	0	0	0	1	5	18	22	29	49	67	75	90	65	57	8	2	0	0	0	0	0	488
24	0	0	0	0	0	0	3	69	270	484	667	492	718	801	716	528	320	103	11	0	0	0	0	0	5182
25	0	0	0	0	0	0	3	82	283	492	659	765	838	773	705	487	257	69	17	0	0	0	0	0	5431
26	0	0	0	0	0	0	4	106	244	475	655	758	807	783	695	532	309	99	4	0	0	0	0	0	5471
27	0	0	0	0	0	0	3	59	237	458	707	851	902	866	752	571	332	112	17	0	0	0	0	0	5859
28	0	0	0	0	0	0	6	94	310	522	700	835	873	719	340	545	302	79	8	0	0	0	0	0	5333

Avg	0	0	0	0	0	0	1	42	177	312	449	510	568	560	483	343	200	56	3	0	0	0	0	0	0	3704
S D	0	0	0	0	0	0	2	24	79	143	198	232	261	243	212	170	91	32	4	0	0	0	0	0	0	1526
S/A	0	0	0	0	0	0	1.91	0.58	0.44	0.46	0.44	0.45	0.46	0.43	0.44	0.49	0.45	0.56	1.3	0	0	0	0	0	0	0.41
Min	0	0	0	0	0	0	0	5	18	22	29	49	67	75	78	65	30	8	0	0	0	0	0	0	0	488
Max	0	0	0	0	0	0	6	106	310	522	707	851	902	866	752	571	332	112	17	0	0	0	0	0	0	5859
n	0	0	0	0	0	0	13	315	336	336	336	336	336	336	336	336	336	336	53	0	0	0	0	0	0	3741

Daylight Data Recovery: 0.0% missing; 0.0% exceed the 15% QC threshold -- 3741 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.

February 2002

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	0	0	22	?	26 ?	10	23	42	39	58	35	42	33	0	0	0	0	0	0	329 ?
2	0	0	0	0	0	0	0	27	15	16	10	15	31	38	31	12	48	12	0	0	0	0	0	0	255
3	0	0	0	0	0	0	0	22	40	30	23	43	36	50	62	77	41	27	0	0	0	0	0	0	452
4	0	0	0	0	0	0	0	37	46	45	37	19	25	45	50	48	26	32	0	0	0	0	0	0	411
5	0	0	0	0	0	0	0	65	30	8	39	57	47	70	35	12	8	8	0	0	0	0	0	0	380
6	0	0	0	0	0	0	0	20	27	30	15	44	45	46	51	54	31	30	77	0	0	0	0	0	470
7	0	0	0	0	0	0	0	17	29	34	11	7	6	8	3	5	7	7	?	0	0	0	0	0	132
8	0	0	0	0	0	0	0	7	7	9	10	16	19	55	46	52	36	37	87	0	0	0	0	0	381
9	0	0	0	0	0	0	0	24	52	31	4	18	29	33	40	49	36	31	70	0	0	0	0	0	418
10	0	0	0	0	0	0	0	15	23	39	43	58	16	33	57	12	7	9	26	0	0	0	0	0	337
11	0	0	0	0	0	0	0	24	31	44	41	31	43	45	52	54	50	13	23	0	0	0	0	0	450
12	0	0	0	0	0	0	0	1010	20	42	49	41	50	58	50	51	25	13	39	0	0	0	0	0	1447
13	0	0	0	0	0	0	0	25	3	4	6	6	6	6	6	7	7	3	?	0	0	0	0	0	80
14	0	0	0	0	0	0	0	7	5	8	47	31	53	43	44	51	42	45	23	0	0	0	0	0	400
15	0	0	0	0	0	0	0	24	42	43	16	43	47	40	43	60	51	36	49	0	0	0	0	0	494
16	0	0	0	0	0	0	0	3	5	4	6	5	4	5	8	28	46	32	62	0	0	0	0	0	209
17	0	0	0	0	0	0	0	13	18	35	3	24	31	32	39	41	27	18	16	0	0	0	0	0	296
18	0	0	0	0	0	0	0	4	15	35	24	29	43	39	50	50	40	53	30	0	0	0	0	0	412
19	0	0	0	0	0	0	0	46	37	46	15	54	39	39	44	47	41	40	48	0	0	0	0	0	494
20	0	0	0	0	0	0	0	52	66	53	20	48	57	72	34	12	9	10	27	0	0	0	0	0	461
21	0	0	0	0	0	0	0	43	59	46	36	55	36	44	57	34	27	8	19	0	0	0	0	0	463
22	0	0	0	0	0	0	6	1	3	3	3	2	3	4	4	4	3	3	5	0	0	0	0	0	44
23	0	0	0	0	0	0	?	1	1	1	1	1	2	2	2	2	3	2	4	0	0	0	0	0	22
24	0	0	0	0	0	0	306	23	24	31	7	58	42	37	47	50	42	38	28	0	0	0	0	0	731
25	0	0	0	0	0	0	52	16	19	27	5	27	32	39	51	49	50	30	19	0	0	0	0	0	415
26	0	0	0	0	0	0	9	214	79 ?	30	5	36	40	45	41	41	26	34	31	0	0	0	0	0	633
27	0	0	0	0	0	0	59 ?	20	45	39	2 ?	21	25	28	33	39	26	31	31	0	0	0	0	0	400
28	0	0	0	0	0	0	0 ?	?	18	21	4 ?	23	28	41	41	57	39	25	12	0	0	0	0	0	309 ?

Avg	0	0	0	0	0	0	16	66	28	28	18	30	31	37	39	37	30	24	28	0	0	0	0	0	404
S D	0	0	0	0	0	0	60	193	20	15	15	18	16	18	18	21	16	14	25	0	0	0	0	0	260
S/A	0	0	0	0	0	0	3.73	2.92	0.72	0.56	0.88	0.6	0.51	0.49	0.46	0.56	0.53	0.6	0.89	0	0	0	0	0	0.64
Min	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	3	2	0	0	0	0	0	0	22
Max	0	0	0	0	0	0	306	1010	79	53	49	58	57	72	62	77	51	53	87	0	0	0	0	0	1447
n	0	0	0	0	0	0	10	294	314	328	327	336	334	336	336	336	336	336	50	0	0	0	0	0	3674

Daylight Data Recovery: 0.0% missing; 1.8% exceed the 15% QC threshold -- 3741 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

February 2002

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	0	0	35	159	323 ?	320 ?	403 ?	?	409 ?	?	162	158	38	0	0	0	0	0	0	2005 ?
2	0	0	0	0	0	0	0	36	110	195	194	298	401	355	322	141	180	20	0	0	0	0	0	0	2253
3	0	0	0	0	0	0	0	44	184	292 ?	382 ?	366 ?	406	448	472 ?	345 ?	166	46	0	0	0	0	0	0	3150 ?
4	0	0	0	0	0	0	0	35	133 ?	275	326	278	336 ?	?	?	352 ?	199 ?	59	0	0	0	0	0	0	1993 ?
5	0	0	0	0	0	0	0	35	154	143	319 ?	435	482 ?	393 ?	351	156	76	18	0	0	0	0	0	0	2562 ?
6	0	0	0	0	0	0	0	44	177	289 ?	?	364 ?	532 ?	548 ?	444 ?	340 ?	219	51	0	0	0	0	0	0	3008 ?
7	0	0	0	0	0	0	0	24	149	219	216	151	128	182	76	83	92	13	2	0	0	0	0	0	1336
8	0	0	0	0	0	0	0	21	75	163	290	389	352	464 ?	420 ?	377 ?	221	65	0	0	0	0	0	0	2838 ?
9	0	0	0	0	0	0	0	37	150 ?	358 ?	?	?	?	?	?	312 ?	163 ?	61	1	0	0	0	0	0	1081 ?
10	0	0	0	0	0	0	0	21	118	291 ?	317	398	168 ?	282	247 ?	175	64	26	0	0	0	0	0	0	2107
11	0	0	0	0	0	0	0	53	191	250	314	389	475 ?	?	?	373	200	50	3	0	0	0	0	0	2297 ?
12	0	0	0	0	0	0	0	52	211	373 ?	416	546 ?	571 ?	485 ?	347	279	154	46	1	0	0	0	0	0	3481 ?
13	0	0	0	0	0	0	0	25	54	72	155	230	156	153	122	66	56	16	0	0	0	0	0	0	1105
14	0	0	0	0	0	0	0	13	74	170	393 ?	?	535 ?	480 ?	?	?	252	77	5	0	0	0	0	0	1998 ?
15	0	0	0	0	0	0	0	30	169 ?	308 ?	506 ?	408 ?	415 ?	357 ?	?	334 ?	189	57	2	0	0	0	0	0	2775 ?
16	0	0	0	0	0	0	0	14	65	91	142	123	109	148	230	281	222 ?	69	0	0	0	0	0	0	1496
17	0	0	0	0	0	0	0	51	221 ?	?	?	?	?	?	?	?	229 ?	84	1	0	0	0	0	0	585 ?
18	0	0	0	0	0	0	0	30	127	252	384 ?	?	?	?	530 ?	?	196 ?	103	6	0	0	0	0	0	1627 ?
19	0	0	0	0	0	0	0	29	149 ?	383 ?	408 ?	404 ?	616 ?	?	?	354 ?	257	73	6	0	?	0	0	0	2678 ?
20	0	0	0	0	0	0	?	40	179	288	517 ?	400 ?	519 ?	479	282	170	102	31	0	0	0	0	0	0	3007 ?
21	0	0	0	0	0	0	?	50	206	357	459 ?	433	367 ?	331	345	199	131	25	2	0	0	0	0	0	2904 ?
22	0	0	0	0	0	0	0	9	57	84	76	70	78	109	95	68	29	8	1	0	0	0	0	0	683
23	0	0	0	0	0	0	1	5	18	21	28	48	66	74	88	64	56	7	2	0	0	0	0	0	478
24	0	0	0	0	0	0	3	66	226 ?	?	?	429	466 ?	?	?	459 ?	247 ?	97	10	0	0	0	0	0	2002 ?
25	0	0	0	0	0	0	3	81	209 ?	?	?	?	?	?	?	403 ?	229	64	16	0	0	0	0	0	1004 ?
26	0	0	0	0	0	0	4	74	251 ?	371 ?	?	596 ?	?	554 ?	?	?	299	93	4	0	0	0	0	0	2244 ?
27	0	0	0	0	0	0	2	56	205	334 ?	?	?	?	?	?	?	249 ?	106	8	0	0	0	0	0	960 ?
28	0	0	0	0	0	0	6	97	?	?	?	?	?	?	427 ?	311	408 ?	199 ?	73	8	0	0	0	0	1529 ?

Avg	0	0	0	0	0	0	1	39	149	246	308	341	359	351	293	257	173	53	3	0	0	0	0	0	0	1971 ?
S D	0	0	0	0	0	0	2	22	61	106	136	145	178	151	142	125	72	29	4	0	0	0	0	0	0	849
S/A	0	0	0	0	0	0	2.17	0.55	0.41	0.43	0.44	0.42	0.5	0.43	0.48	0.49	0.42	0.56	1.4	0	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	5	18	21	28	48	66	74	76	64	29	7	0	0	0	0	0	0	0	478
Max	0	0	0	0	0	0	6	97	251	383	517	596	616	554	530	459	299	106	16	0	0	0	0	0	0	3481
n	0	0	0	0	0	0	11	313	271	223	177	194	158	155	152	202	289	336	53	0	0	0	0	0	0	2547

Daylight Data Recovery: 0.0% missing; 31.9% exceed the 15% QC threshold -- 3741 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.