

January 2008

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	33	135	300	430	493	497	445	344	196	51	0	0	0	0	0	0	0	2923
2	0	0	0	0	0	0	0	31	154	282	347	483	302	320	208	152	52	0	0	0	0	0	0	0	2330
3	0	0	0	0	0	0	0	30	106 ?	?	?	?	?	?	?	?	53	0	0	0	0	0	0	0	190 ?
4	0	0	0	0	0	0	0	31	152	311	443	510	519	476	367	205	51	0	0	0	0	0	0	0	3064
5	0	0	0	0	0	0	0	40	143	304	442	505	475	368	304	138	26	0	0	0	0	0	0	0	2744
6	0	0	0	0	0	0	0	10	80	188	356	511	406	455	352	199	50	0	0	0	0	0	0	0	2607
7	0	0	0	0	0	0	0	22	105	191 ?	354 ?	?	?	?	289 ?	195	54	0	0	0	0	0	0	0	1210 ?
8	0	0	0	0	0	0	0	34	95 ?	?	?	?	?	253 ?	187 ?	125 ?	48	0	0	0	0	0	0	0	742 ?
9	0	0	0	0	0	0	0	41	139	201 ?	227	316	287 ?	282 ?	224 ?	92	36	1	0	0	0	0	0	0	1846 ?
10	0	0	0	0	0	0	0	26	95 ?	132 ?	201 ?	324 ?	339	206	79	67	34	2	0	0	0	0	0	0	1504 ?
11	0	0	0	0	0	0	0	14	13 ?	65	83	123	150	233 ?	170 ?	101 ?	46	3	0	0	0	0	0	0	1002 ?
12	0	0	0	0	0	0	0	15	56	291	255	231	252	203	201	201	79	4	0	0	0	0	0	0	1788
13	0	0	0	0	0	0	0	8	42	82	102	131	136	173	99	77	11	1	0	0	0	0	0	0	863
14	0	0	0	0	0	0	0	29	90	269	390	395	163	180	164	216	73	4	0	0	0	0	0	0	1973
15	0	0	0	0	0	0	0	33	109 ?	?	?	?	331 ?	233	222	120	65	6	0	0	0	0	0	0	1119 ?
16	0	0	0	0	0	0	0	34	93 ?	?	?	?	?	?	271	148	40	2	0	0	0	0	0	0	587 ?
17	0	0	0	0	0	0	0	6	39	36	44	43 ?	47 ?	44 ?	42	29 ?	19	6	0	0	0	0	0	0	354 ?
18	0	0	0	0	0	0	0	14	67	203	433	521	401	456	230	209	78	2	0	0	0	0	0	0	2614
19	0	0	0	0	0	0	0	18	62	44	57	58	53	76	49 ?	19 ?	11	1	0	0	0	0	0	0	447 ?
20	0	0	0	0	0	0	0	11	50 ?	141 ?	93 ?	?	?	?	?	?	36 ?	4	0	0	0	0	0	0	335 ?
21	0	0	0	0	0	0	0	30	113 ?	?	?	?	?	?	?	?	68 ?	7	0	0	0	0	0	0	219 ?
22	0	0	0	0	0	0	0	14	73	155 ?	247 ?	235 ?	235	145	228	154 ?	38	4	0	0	0	0	0	0	1528 ?
23	0	0	0	0	0	0	0	12	77	174	251 ?	?	?	?	?	?	63 ?	7	0	0	0	0	0	0	585 ?
24	0	0	0	0	0	0	0	19	51	63	92	257	290	259	71 ?	45	38	5	0	0	0	0	0	0	1190
25	0	0	0	0	0	0	0	37	107 ?	?	?	?	?	?	?	?	74 ?	13	0	0	0	0	0	0	232 ?
26	0	0	0	0	0	0	0	28	88	145	296	320	346	169	90	27	18 ?	3	0	0	0	0	0	0	1530
27	0	0	0	0	0	0	0	38	103 ?	?	?	?	324 ?	286	223 ?	156 ?	51	10	0	0	0	0	0	0	1191 ?
28	0	0	0	0	0	0	0	38	102 ?	?	?	?	?	?	?	?	72 ?	9	0	0	0	0	0	0	221 ?
29	0	0	0	0	0	0	0	14	66	207	300 ?	286	218	262	252	194 ?	100	13	0	0	0	0	0	0	1911
30	0	0	0	0	0	0	0	2	19 ?	146	139	131 ?	?	?	?	?	83 ?	15	0	0	0	0	0	0	535 ?
31	0	0	0	0	0	0	0	43	?	?	?	349 ?	336	354 ?	275 ?	138	49	10	0	0	0	0	0	0	1553 ?
Avg	0	0	0	0	0	0	0	24	87	179	254	311	291	267	206	133	51	4	0	0	0	0	0	0	1321 ?
S D	0	0	0	0	0	0	0	12	37	88	136	160	132	121	96	64	22	4	0	0	0	0	0	0	883
S/A	0	0	0	0	0	0	0	0.48	0.42	0.49	0.54	0.51	0.45	0.45	0.46	0.48	0.43	1.02	0	0	0	0	0	0	0.67
Min	0	0	0	0	0	0	0	2	13	36	44	43	47	44	42	19	11	0	0	0	0	0	0	0	190
Max	0	0	0	0	0	0	0	43	154	311	443	521	519	476	367	216	100	15	0	0	0	0	0	0	3064
n	0	0	0	0	0	0	0	291	275	241	230	202	217	234	242	231	337	66	0	0	0	0	0	0	2569

Daylight Data Recovery: 0.0% missing; 0.0% untested; 30.6% exceed the 15% QC threshold -- 3704 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31256F3 Calibration Factor: 7.561 μV/W/m² Calibration Date: 08/2003

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.

January 2008

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 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	215	488	771	856	866	854	827	796	703	414	0	0	0	0	0	0	0	6790
2	0	0	0	0	0	0	0	229	562	578	337	533	43	174	102	325	293	0	0	0	0	0	0	0	3176
3	0	0	0	0	0	0	0	140	271 ?	?	?	?	?	?	?	129	0	0	0	0	0	0	0	0	540 ?
4	0	0	0	0	0	0	0	294	686	846	915	929	923	928	874	729	373	0	0	0	0	0	0	0	7497
5	0	0	0	0	0	0	0	270	479	752	899	829	503	263	348	117	0	0	0	0	0	0	0	0	4458
6	0	0	0	0	0	0	0	0	5	43	442	773	401	808	784	669	338	0	0	0	0	0	0	0	4263
7	0	0	0	0	0	0	0	1	227	449 ?	511 ?	?	?	?	521 ?	437	219	0	0	0	0	0	0	0	2364 ?
8	0	0	0	0	0	0	0	4	25 ?	?	?	?	?	6 ?	7 ?	26 ?	2	0	0	0	0	0	0	0	69 ?
9	0	0	0	0	0	0	0	3	8	6 ?	3	6	8 ?	9 ?	6 ?	1	2	0	0	0	0	0	0	0	52 ?
10	0	0	0	0	0	0	0	1	4 ?	3 ?	3 ?	7 ?	6	0	0	0	0	0	0	0	0	0	0	0	24 ?
11	0	0	0	0	0	0	0	0	0	1	0	0	0	2 ?	1 ?	61 ?	49	0	0	0	0	0	0	0	114 ?
12	0	0	0	0	0	0	0	0	0	310	40	1	1	0	7	417	269	0	0	0	0	0	0	0	1045
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	113	68	247	419	236	10	40	73	554	387	34	0	0	0	0	0	0	2181
15	0	0	0	0	0	0	0	114	234 ?	?	?	?	92 ?	12	72	74	184	11	0	0	0	0	0	0	793 ?
16	0	0	0	0	0	0	0	8	13 ?	?	?	?	?	?	14	2	0	0	0	0	0	0	0	0	36 ?
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	115	607	699	317	491	96	445	296	14	0	0	0	0	0	0	3080
19	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
20	0	0	0	0	0	0	0	1	2	3 ?	1 ?	6 ?	?	?	?	?	3 ?	0	0	0	0	0	0	0	16 ?
21	0	0	0	0	0	0	0	1	3 ?	?	?	?	?	?	?	?	2 ?	0	0	0	0	0	0	0	6 ?
22	0	0	0	0	0	0	0	0	2	4 ?	5 ?	4 ?	1	0	3	3 ?	0	0	0	0	0	0	0	0	22 ?
23	0	0	0	0	0	0	0	0	3	3	4 ?	?	?	?	?	?	3 ?	0	0	0	0	0	0	0	12 ?
24	0	0	0	0	0	0	0	0	1	0	0	3	2	3	0	0	0	0	0	0	0	0	0	0	9
25	0	0	0	0	0	0	0	3	8 ?	?	?	?	?	?	?	?	4 ?	0	0	0	0	0	0	0	15 ?
26	0	0	0	0	0	0	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	4
27	0	0	0	0	0	0	0	0	0 ?	?	?	?	0 ?	1	1 ?	0 ?	0	0	0	0	0	0	0	0	2 ?
28	0	0	0	0	0	0	0	0	0 ?	?	?	?	?	?	?	?	4 ?	0	0	0	0	0	0	0	4 ?
29	0	0	0	0	0	0	0	0	1	1	0 ?	0	0	0	2	2 ?	2	0	0	0	0	0	0	0	8
30	0	0	0	0	0	0	0	0	0	0	0	0 ?	?	?	?	?	5 ?	1	0	0	0	0	0	0	6 ?
31	0	0	0	0	0	0	0	0	?	?	?	0 ?	1	2 ?	3 ?	0	0	0	0	0	0	0	0	0	7 ?
Avg	0	0	0	0	0	0	0	45	103	188	229	233	151	162	155	190	96	2	0	0	0	0	0	0	1181 ?
S D	0	0	0	0	0	0	0	89	197	293	334	360	286	306	284	264	145	7	0	0	0	0	0	0	2074
S/A	0	0	0	0	0	0	0	1.98	1.91	1.56	1.46	1.54	1.89	1.89	1.84	1.39	1.51	3.47	0	0	0	0	0	0	1.76
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Max	0	0	0	0	0	0	0	294	686	846	915	929	923	928	874	729	414	34	0	0	0	0	0	0	7497
n	0	0	0	0	0	0	0	292	288	242	234	214	228	237	253	253	340	66	0	0	0	0	0	0	2651

Daylight Data Recovery: 0.0% missing; 0.0% untested; 28.4% exceed the 15% QC threshold -- 3704 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 μV/W/m² Calibration Date: 06/2002

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.

January 2008

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	18	41	49	56	64	67	64	54	38	16	0	0	0	0	0	0	0	466
2	0	0	0	0	0	0	0	17	45	78	174	168	273	217	166	81	23	0	0	0	0	0	0	0	1242
3	0	0	0	0	0	0	0	13	27 ?	?	?	?	?	?	?	?	16	0	0	0	0	0	0	0	56 ?
4	0	0	0	0	0	0	0	15	34	44	51	55	57	50	46	39	17	0	0	0	0	0	0	0	407
5	0	0	0	0	0	0	0	29 ?	54	60	55	90	207	232	162	102	26	0	0	0	0	0	0	0	1017
6	0	0	0	0	0	0	0	10	80	175	144	117	192	69	53	40	17	0	0	0	0	0	0	0	896
7	0	0	0	0	0	0	0	24	55	52 ?	53 ?	?	?	?	50 ?	46	21	0	0	0	0	0	0	0	300 ?
8	0	0	0	0	0	0	0	35	60 ?	?	?	?	?	235 ?	163 ?	87 ?	44	0	0	0	0	0	0	0	625 ?
9	0	0	0	0	0	0	0	38 ?	112	179 ?	218	270	211 ?	199 ?	177 ?	90	28	1	0	0	0	0	0	0	1524 ?
10	0	0	0	0	0	0	0	20	69 ?	128 ?	160 ?	245 ?	292	206	79	67	34	2	0	0	0	0	0	0	1301 ?
11	0	0	0	0	0	0	0	16	13	66	84	123	150	217 ?	158 ?	72 ?	36	3	0	0	0	0	0	0	938 ?
12	0	0	0	0	0	0	0	16	56	172	237	231	252	203	196	92	45	4	0	0	0	0	0	0	1504
13	0	0	0	0	0	0	0	9	42	82	102	131	136	173	99	77	11	1	0	0	0	0	0	0	864
14	0	0	0	0	0	0	0	20	80	164	187	246	158	160	129	73	26	4	0	0	0	0	0	0	1248
15	0	0	0	0	0	0	0	16	31 ?	?	?	?	248 ?	225	172	93	24	5	0	0	0	0	0	0	813 ?
16	0	0	0	0	0	0	0	27	63 ?	?	?	?	?	?	213	139	40	2	0	0	0	0	0	0	484 ?
17	0	0	0	0	0	0	0	6	39	36	41	37	36	41	40	25	19	6	0	0	0	0	0	0	325
18	0	0	0	0	0	0	0	14	67	154	108	114	203	176	181	66	31	3	0	0	0	0	0	0	1117
19	0	0	0	0	0	0	0	18	61	44	55	58	52	76	41	18	11	1	0	0	0	0	0	0	434
20	0	0	0	0	0	0	0	10	38 ?	108 ?	80 ?	87 ?	?	?	?	?	17 ?	2	0	0	0	0	0	0	342 ?
21	0	0	0	0	0	0	0	14	27 ?	?	?	?	?	?	?	?	19 ?	5	0	0	0	0	0	0	66 ?
22	0	0	0	0	0	0	0	15	71	151 ?	217 ?	216 ?	230	145	209	142 ?	37	4	0	0	0	0	0	0	1438 ?
23	0	0	0	0	0	0	0	13	70	157	234 ?	?	?	?	?	?	30 ?	7	0	0	0	0	0	0	512 ?
24	0	0	0	0	0	0	0	19	51	63	92	256	272	229	65 ?	42	37	5	0	0	0	0	0	0	1132
25	0	0	0	0	0	0	0	21	37 ?	?	?	?	?	?	?	?	25 ?	8	0	0	0	0	0	0	91 ?
26	0	0	0	0	0	0	0	28	87	144	271	292	313	167	90	26	17	3	0	0	0	0	0	0	1438
27	0	0	0	0	0	0	0	21	39 ?	?	?	?	293 ?	239	211 ?	138 ?	50	10	0	0	0	0	0	0	1001 ?
28	0	0	0	0	0	0	0	26	49 ?	?	?	?	?	?	?	?	25 ?	5	0	0	0	0	0	0	105 ?
29	0	0	0	0	0	0	0	14	66	201	274 ?	277	218	261	228	164 ?	83	13	0	0	0	0	0	0	1798
30	0	0	0	0	0	0	0	2	18	124	131	154 ?	?	?	?	?	19 ?	6	0	0	0	0	0	0	452 ?
31	0	0	0	0	0	0	0	19	?	?	?	311 ?	325	318 ?	251 ?	135	49	10	0	0	0	0	0	0	1417 ?
Avg	0	0	0	0	0	0	0	18	53	111	138	169	199	177	135	79	29	4	0	0	0	0	0	0	818 ?
S D	0	0	0	0	0	0	0	8	22	54	78	89	89	75	69	42	15	3	0	0	0	0	0	0	506
S/A	0	0	0	0	0	0	0	0.43	0.42	0.49	0.57	0.53	0.45	0.42	0.51	0.53	0.52	0.96	0	0	0	0	0	0	0.62
Min	0	0	0	0	0	0	0	2	13	36	41	37	36	41	40	18	11	0	0	0	0	0	0	0	56
Max	0	0	0	0	0	0	0	38	112	201	274	311	325	318	251	164	83	13	0	0	0	0	0	0	1798
n	0	0	0	0	0	0	0	267	284	242	234	214	227	237	249	250	340	66	0	0	0	0	0	0	2614

Daylight Data Recovery: 0.0% missing; 0.0% untested; 29.4% exceed the 15% QC threshold -- 3704 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 μV/W/m² Calibration Date: 07/2002

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.

January 2008

Dry Bulb Temperature (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Degrees Celsius

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	7.1	7.6	7.3	7.2	7.6	7.7	7.9	8.5	9.7	12.5	13.8	14.2	14.2	14.4	14.4	13.8	11.9	9.6	8.3	7.1	6	4.9	3.9	3	9.3
2	2.6	1.9	1	0.5	0	-0.4	-0.9	-1.3	-1	-0.7	-0.6	0.1	0.3	0.9	0.6	1	1.5	1	0.5	0.4	0.4	-0.1	-0.6	-1	0.2
3	-1.3	-1.8	-2.4	-3	-3.5	-3.8	-4.1	-4.3	-3.6	-2.8	-1.8	-1	-0.7	-0.2	-0.1	-0.1	-0.2	-1	-1.6	-2	-2.4	-3	-4.1	-5	-2.2
4	-5	-5.4	-5.5	-5.9	-5.9	-6.1	-6.2	-5.5	-3.5	-0.7	0.9	2.1	2.9	3.8	4.3	4.6	4.3	2.9	2.1	1.7	1.3	1.3	1	0.7	-0.7
5	0.3	0.2	0	0	-0.3	-0.5	-0.9	-0.3	1.5	3.5	6	7.4	8.9	9.4	10	10	9.2	8.5	8.2	7.9	7.2	6.9	7.2	7.8	4.9
6	7.6	7.7	8	8.8	9.1	8.8	8.7	8.9	9.2	10.6	12.9	15.2	16.3	17.6	18.2	18.5	17.8	16	14.7	13.9	13.1	12.2	11.6	11.3	12.4
7	11.4	11.2	11.4	10.8	10.4	10.4	10	9.3	10.1	13	16.3	18.2	19.4	20.1	20.8	20.7	20	18.4	16.6	15.5	14.4	13.8	13.7	13.4	14.6
8	12.8	12.4	12.1	11.9	11.8	11.3	11.3	11.1	11.8	14.1	17.3	19.4	20.5	21.2	21.6	21.9	20.6	18.5	18	17.9	17.1	16	15.9	16	15.9
9	16.3	16.2	16.1	15.8	15.2	15.2	15.4	15.5	16.1	16.9	17.9	19.2	20.4	21	21	20.7	20.2	18.8	17.4	17.3	17	16.3	14.5	12.9	17.2
10	12.1	12.1	11.9	11.9	11.5	11.1	11	10.5	11	12.1	13.1	14.2	14.7	14.8	14.3	13.8	13.1	12.2	11.3	10.7	10.3	11	13.4	15.5	12.4
11	16.1	16.2	16.5	17.5	18.1	17.7	18.2	18.3	17.8	17.6	18.3	18.6	18.6	19.3	19.8	20.1	19.4	18.6	18	17.7	17.6	17.1	16.7	16.3	17.9
12	15.9	15.7	13.5	11.1	10.9	10.6	10.4	10.5	10.5	11	11.2	11	11	10.7	10.6	10.7	10.7	9.2	8.2	7.6	7.1	6.4	6.1	6	10.3
13	5.9	5.8	5.8	5.8	6.2	7.2	8.2	8.4	8.7	9.3	10	10.4	10.8	11.1	11.1	10.9	10.6	10.4	9.9	9	8.3	8	7.7	7.4	8.6
14	7.1	6.7	6.6	6.2	5.8	5.1	4.1	3.3	3.3	3.9	6.6	7.6	8.1	8	7.9	8.1	8.4	7.6	6.9	6.2	5	4.1	3.1	2.3	5.9
15	1.4	0.9	0.1	-0.4	-0.8	-1	-1.4	-1.6	-0.2	1.5	3	3.9	4.6	4.6	4.9	4.8	4.6	3.1	2.2	1.5	0.7	0.2	-0.5	-1.1	1.5
16	-1.1	-1.4	-1.9	-2.4	-2.5	-2.6	-2.5	-2.9	-2.4	0.5	2.4	4	5.1	5.7	6	5.8	5.4	4.4	3.3	2.8	2.7	2.5	2.5	2.9	1.5
17	2.3	2.6	2.6	2.6	3.1	3.2	3.6	4.4	5.2	5.4	5.7	5.9	6.2	6.7	7.3	8.2	10.5	12.4	13	13.7	13.1	8.7	7	5.6	6.6
18	4.5	3.8	3.2	2.8	2.5	2.4	2.3	2.2	2.3	3.1	5.3	7.8	9.6	11.5	11.5	11.6	10.4	9	7.5	6.6	6	5.6	5.2	4.7	5.9
19	4.3	4.6	4.9	5.1	5.2	5	4.8	4.8	5.6	6.1	5.9	5.9	5.5	5.4	5.6	5.3	4.2	2.8	1.8	0.8	0.6	0.5	0.4	0.4	4
20	0.3	0.3	0.3	0.2	0.1	0.2	0.3	0.2	0.1	-0.8	-0.8	-1.1	-1.1	-1	-0.7	-0.6	-1	-1.8	-2.5	-3.2	-3.8	-4.2	-5	-5.3	-1.3
21	-5.7	-6	-6.1	-6	-5.5	-5.4	-5.5	-5.4	-4.1	-2.5	-1.6	-0.6	0.2	0.8	1.1	0.8	0.5	-0.8	-1.6	-1.8	-1.9	-1.7	-1.6	-1.6	-2.6
22	-1.7	-1.7	-1.5	-0.2	-0.4	-0.3	0.9	2	3.9	6.8	9.4	11	12.4	12.2	12.5	13.4	13.4	12.5	12	11.5	11	10.9	10.7	10.5	7.1
23	7.8	7.1	7.1	7.1	6.5	6.1	5.5	5.1	5.1	5.8	6.2	8	9.3	9.4	9.4	9.2	8.1	6.3	5.3	4.6	4.1	4.1	4.3	4.5	6.5
24	4.1	4.3	4.3	4.3	4.5	4.5	4.5	4.5	5.3	6.7	8	9.3	10	10.4	7.7	4.6	3.8	2.7	1.5	0.7	0	-0.4	-0.7	-1	4.3
25	-0.5	-0.4	-1	-1.5	-2.2	-2.8	-3.3	-3.6	-3.1	-2.4	-1.5	-0.9	0.4	1.3	1.8	2	1.9	0.7	-0.3	-0.9	-1.5	-1.9	-2.6	-2.4	-1
26	-2.2	-2.2	-2.3	-1.7	-1.3	-1.5	-1.6	-1.1	-0.3	0.7	2.2	3.2	3.8	4.1	3.7	3.3	2.5	1.6	1.5	1.6	1.7	1.8	1.7	1.4	0.9
27	1.6	1.8	1.4	0.7	-0.1	-1	-1.2	-1.1	1.1	3.6	5.6	6.7	7.7	6.9	6.8	6.8	6.1	5.1	4.2	3.1	2.3	1.4	0.3	0.2	2.9
28	-0.2	-0.5	-0.8	-0.9	-1.1	-1.5	-2.2	-2.3	-0.8	1.9	4	5.1	6.3	7.4	8.2	8.5	8.5	7.2	5.8	4.7	3.4	4.1	3.5	3.1	3
29	2.9	2.8	2.7	2.3	2.1	3.1	3.9	4.5	5	6.8	9.4	11.4	11.9	13.3	14.1	14.7	14.7	14	12.7	12	11.5	11.8	13.3	13.5	8.9
30	13.3	13.4	12.9	13.2	14.1	14.3	14.1	14	14.5	15.6	16.1	15.6	15.5	15	14.6	14.3	13.2	11.1	9.3	7.9	7.1	5.7	3.7	3.1	12.1
31	3.1	2.4	2.3	1.8	2.2	2.6	2.3	2.1	3.4	5.2	6.2	6.7	6	5.8	5.4	5	4.8	4.8	5.1	5.4	5.7	6.2	6.8	7.7	4.5
Avg	4.6	4.4	4.2	4.1	4	3.9	3.8	3.8	4.6	5.9	7.3	8.3	9	9.4	9.5	9.4	9	7.9	7.1	6.5	6	5.5	5.1	4.9	6.2
SD	6.2	6.2	6.2	6.2	6.3	6.3	6.4	6.4	6.1	6	6.1	6.3	6.3	6.4	6.5	6.5	6.3	6.2	6.1	6.2	6.1	5.9	6.1	6.2	5.8
S/A	1.34	1.4	1.47	1.53	1.58	1.63	1.69	1.66	1.32	1.01	0.84	0.75	0.7	0.68	0.68	0.69	0.7	0.78	0.87	0.95	1.02	1.08	1.19	1.26	0.94
Min	-5.7	-6	-6.1	-6	-5.9	-6.1	-6.2	-5.5	-4.1	-2.8	-1.8	-1.1	-1.1	-1	-0.7	-0.6	-1	-1.8	-2.5	-3.2	-3.8	-4.2	-5	-5.3	-2.6
Max	16.3	16.2	16.5	17.5	18.1	17.7	18.2	18.3	17.8	17.6	18.3	19.4	20.5	21.2	21.6	21.9	20.6	18.8	18	17.9	17.6	17.1	16.7	16.3	17.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 1.00 deg C/mV Calibration Date: 03/1988

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.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

January 2008

Relative Humidity (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Percent

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	?	?	?	?	?	?	?	?	103.2 ?	96.8	82.3	72.8	69.4	64.3	56	46.3	43.9	44.8	48.5	51	51.1	52.3	55.1	59.5	62.3 ?
2	61.3	63.8	68.1	69.6	67.3	64.7	61	59.9	60	56	59.3	57.7	56.7	55.8	65.9	65.9	57.3	50.9	51.9	48.9	45.5	48.5	50.7	52.8	58.3
3	52	49.7	51.1	51.1	50.6	51.6	54.8	57.5	56.3	54.9	53.1	50.4	47.9	46.2	46	46.8	48.1	52.5	54.7	55.7	57.4	60.7	69.1	71.6	53.7
4	73	74.2	72.5	79.6	79.5	79.7	80.9	75.4	70.3	59.8	51.8	50.7	45.6	38.4	37.9	38.4	40.1	45.7	49	51.6	56.3	57.8	60.6	64	59.7
5	66.9	68.5	69.8	71.2	70.3	69.7	71.5	69.9	63.1	55.2	44.3	39.4	36.5	33	32.5	36.2	38.2	46.9	57.5	63.8	68.1	68.3	74.5	76.8	58
6	83.1	86.4	85.5	82.2	80.9	83.2	85.6	86.7	87.4	86.1	78	73.6	74.1	70.7	68.6	68.5	70.6	77.1	81.4	84.8	88.5	91.9	95.1	98.2	82
7	100.8	103.4	?	?	?	?	?	?	?	102.7 ?	92.9	82.1	75.4	72.7	70.8	70	72.6	79.2	86.2	90.7	97.2	100.4	100.7	102.4	88.2 ?
8	104.3 ?	?	?	?	?	?	?	?	?	?	98.9	91.8	87.8	82.8	79.2	75.9	79.2	84.5	90.6	95	98.8	102.6	104.3	?	91.1 ?
9	?	?	?	?	?	?	?	?	103.5 ?	100.9	97.3	91.2	85.1	83.8	83.1	84.9	87.2	92.9	97.7	97.5	98.3	90.9	65.6	66.2	89.1 ?
10	67.4	62.3	63.8	61.3	63.6	67.6	74.8	74.9	68.9	65.1	63.8	66.8	70.7	75.2	80.5	84	87.4	92.5	96	98.9	101.4	103.6 ?	?	?	76.8
11	?	?	?	?	104.4 ?	104.7 ?	104.3 ?	103.1	103.2 ?	104.6 ?	103.4	101.4	101.2	98.1	95.8	93.4	94	96.6	97.8	98.9	100.5	102.4	103.9	104.9 ?	100.8 ?
12	?	?	87.4 ?	78.5	79.2	79	80.7	82.9	87.1	86.4	82.7	76.7	77.1	81.2	79.5	75.2	76.6	83.6	89.9	95.6	97.5	98.4	101	102.5	85.4 ?
13	103.7	103.6	104.1	102.9	101.7	99.4	95.4	94.4	95.6	98.2	98.8	99	99.1	98.9	99.5	100.5	101.2	101.4	102.3	104.4 ?	?	?	?	?	100.2 ?
14	?	?	?	?	103.9	104.4	104.9 ?	?	?	?	97.3	90.2	78.7	76.2	76.3	76.9	72	68.2	63.1	63.6	67.4	69.6	71.4	72.2	79.8 ?
15	73	72.2	76.3	78.2	80.2	81	81.8	81.3	75.3	68.8	62	56	51.8	52.9	52.9	50.1	42.8	46.5	48.2	48.4	53.7	57.4	60.8	64.2	63.2
16	64.4	66.7	69.4	72.5	74.1	75.9	75.9	78.3	77.9	71	64.4	60.7	58.2	57.4	56.5	55.9	59.9	70.8	84.6	82.4	83.5	87.2	89.5	89.7	71.9
17	92.2	94.3	96.1	92.1	88.9	89.7	90.4	92.9	95.8	101	103.5	?	?	?	?	?	?	?	?	?	?	?	?	?	94.3 ?
18	?	?	?	?	?	?	?	?	?	?	102.3 ?	98	90.1	78.5	75.5	79.7	87.8	94.7	99.1	101.6	103.7	?	?	?	91.9 ?
19	?	?	?	?	?	?	?	?	104 ?	102.6	104.5 ?	104.1 ?	?	?	?	?	?	?	?	?	?	?	?	?	103.8 ?
20	?	?	?	?	?	?	?	?	103 ?	96.5	89.3	71.4	69.7	61.7	62.4	60.4	48.8	51.6	56.8	63.2	64	65.1	66	64.7	68.4 ?
21	67.6	68.2	72.4	72.8	69.5	68.5	71.6	71.1	62.8	57.7	56.5	53.3	49.4	49.2	49.7	51.6	52.1	61.5	67.5	69.5	73	75.3	79.1	81	64.6
22	85.7	90.6	91.2	91.4	91.7	98.5	103.8 ?	?	?	?	102.5	99.3	98.8	102.9 ?	104.7 ?	102.3	102.1	103.5	104.6 ?	?	?	?	?	?	98.4 ?
23	?	?	?	?	?	?	?	?	?	103.5 ?	100.7	93.1	79.1	74.7	72.7	70.9	79.2	90.4	90.3	94.2	97.1	99.5	100.5	102	89.8 ?
24	103.8	104.1	104.6 ?	?	?	?	?	?	?	101.5 ?	96.3	91.4	92.5	92	98.3	102.5	97.6	89.1	93	98.4	99.6	99.9	98.9	99.4	97.9 ?
25	91.9	73.4	68.6	71	73.6	70.7	71.1	70.9	68.8	66.8	66.1	64.8	61.7	57.8	53.7	53.6	51.9	56.9	60.6	63.1	67	69.7	75.7	77.6	67
26	78.8	78.9	78.2	78.1	77	79.7	81.5	78.8	79.9	80	70.2	59.9	53.1	50.4	54.6	61.3	72.3	86.8	93.6	95.8	98.6	98.7	97	96.8	78.3
27	95.1	89.7	87.9	89.3	92.3	97.1	98.7	97.3	91.4	81.3	64.4	63.9	58.1	60.9	61	61.7	64.1	67.2	70.1	77.4	86.9	91.1	94.9	90.7	80.5
28	89.1	89.6	90.6	90.6	92.5	95.9	97.8	98.7	94.9	88	78.1	70.1	62.9	57.2	54.2	52.5	53.3	59.5	65.2	70.7	75.3	71.6	74.8	78.6	77.1
29	80.5	82.9	85.4	86.8	88.4	89	89	89.3	90.4	83.3	71.3	62.1	60.6	56.3	54.8	55.8	54.8	56.1	64.7	72.2	70.2	65.9	62.7	73.2	72.7
30	86	91.5	94.6	88.2	77.3	82.2	86.4	98.1	100.9	97.6	93.7	71.4	57.5	43.1	33.2	31.5	34	34.1	37.9	42.6	42.5	49.4	56.5	60	66.3
31	58.5	65.6	69	68.6	87.2	77	66.1	70.6	69.5	66.7	64.1	70.1	71.8	74.4	74.1	73.7	78	81.8	86	89.2	92.7	93.8	93.9	96.3	76.6
Avg	80.9	80	80.3	78.8	81.6	82.2	83.1	81.6	83.9	82.7	80.4	74.4	69.7	67.1	66.6	66.4	67.1	71.3	75.5	77.5	79.1	79.7	80.1	81.1	79 ?
S D	15.8	15.3	14	12.1	13.5	14	14.1	13.1	16	17.7	18.8	17.8	17.3	18.3	19.2	19.4	20.1	20.1	19.9	19.6	19.7	19	17.8	16.5	14.5
S/A	0.2	0.19	0.17	0.15	0.17	0.17	0.17	0.16	0.19	0.21	0.23	0.24	0.25	0.27	0.29	0.29	0.3	0.28	0.26	0.25	0.25	0.24	0.22	0.2	0.18
Min	52	49.7	51.1	51.1	50.6	51.6	54.8	57.5	56.3	54.9	44.3	39.4	36.5	33	32.5	31.5	34	34.1	37.9	42.6	42.5	48.5	50.7	52.8	53.7
Max	104.3	104.1	104.6	102.9	104.4	104.7	104.9	103.1	104	104.6	104.5	104.1	101.2	102.9	104.7	102.5	102.1	103.5	104.6	104.4	103.7	103.6	104.3	104.9	103.8
n	258	251	243	240	258	258	243	240	257	298	363	356	348	343	339	346	348	348	343	332	324	308	300	280	7229

Data Recovery: 0.0% missing; 0.0% untested; 19.0% failed QC -- 8928 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 0.10 %/mV Calibration Date: 01/1999

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.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

January 2008

Dry Bulb Temperature (CR10)
Hourly and Daily Averages
Instrument: CSI
Degrees Celsius

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	5.7	5.9	5.8	5.4	5.5	6	6.3	6.7	8.1	10.9	14	16.2	17.2	17.7	17.6	17	15.6	12.4	9.3	7.4	5.9	4.6	3.4	2.4	9.5
2	1.6	1.1	0.4	-0.3	-0.8	-1.2	-1.5	-1.9	-1.2	0.5	1.8	2.4	3.4	3.2	3.2	2.8	2.7	1.6	0	-0.7	-0.9	-0.9	-1.3	-1.7	0.5
3	-2.1	-2.5	-3	-3.5	-4	-4.6	-4.9	-5.5	-4.5	-2.1	0.1	1.8	2.7	3.1	3.3	3	2.3	0.4	-2	-3.4	-4.4	-5.3	-6.2	-7	-2
4	-7.6	-7.9	-8.1	-8.2	-8.4	-8.4	-8.4	-8.7	-6.6	-1.8	2.1	4.9	6.4	7.1	7.3	7.3	6.8	4.6	1.8	0.2	-0.2	-0.5	-0.9	-1.3	-1.2
5	-1.6	-2	-2.1	-2.4	-2.4	-2.6	-2.9	-3.1	-1	2.5	6.3	9.4	10.9	11.8	12.1	12.1	10.9	9.4	8.3	7.8	7.1	6.5	6.3	6.5	4.5
6	6.9	7	7.3	7.7	8.4	8.6	8.6	8.5	8.8	9.7	11.9	15.3	17.7	18.9	20	20.5	20.3	18.1	15.4	13.7	12.9	12	11.2	10.7	12.5
7	10.4	10.3	10.2	10.4	10.1	10	9.8	9.4	9.8	12.3	16.4	19.6	21.5	22.6	23.2	23.5	22.9	20.7	17.9	15.8	14.6	13.6	13.1	12.8	15
8	12.4	12	11.8	11.6	11.9	11.9	11.7	11.5	11.9	13.9	17.1	20.5	23.1	24.2	24.3	24.4	23.7	21.2	19	18.6	17.8	16.6	15.8	15.6	16.8
9	15.7	15.8	15.8	15.7	15.3	15	14.9	14.9	15.4	16.7	18.3	19.5	21	22.2	22.8	22.9	22.1	20.4	18.1	16.9	16.6	16	15.1	13.7	17.5
10	12.4	11.7	11.7	11.9	11.9	11.5	11.3	10.8	10.9	12.3	14.1	16	17.6	18.1	17.6	16.4	15.5	14.3	12.9	11.7	11	10.5	11.1	12.6	13.2
11	14.2	15.3	15.7	16.2	16.9	17.2	17.3	17.5	17.8	17.7	17.6	17.9	18.7	19.5	20.9	21.8	21.6	20	18.8	18.1	17.9	17.7	17.4	16.8	17.9
12	16.4	15.9	15.6	13.8	12.5	11.8	11.1	10.8	11	11.6	13.4	13.6	13.6	13.5	13.1	13	13.1	11.4	9	7.5	6.6	6.1	5.5	5.2	11.5
13	4.9	4.8	4.6	4.8	5.5	6.3	7.2	8.1	8.7	9.3	10.2	11	11.8	12.5	12.9	12.8	12.4	11.8	11.2	10.6	9.9	9.2	8.8	8.4	9.1
14	8.1	7.7	7.3	7.1	6.8	6.3	4.8	3.3	3.5	4.4	6.9	9.3	10.2	10	9.8	9.5	10	8.8	7.1	6	4.8	3.5	2.4	1.5	6.6
15	0.8	-0.2	-1.1	-1.9	-2.4	-2.7	-3	-3.3	-1.8	1.4	4.5	6.7	7.7	7.5	6.9	6.7	6.2	4.9	2.7	1.2	0.1	-0.6	-1.4	-2.2	1.5
16	-2.7	-2.9	-3.1	-3.6	-4	-4.3	-4.6	-4.6	-3.6	-0.5	3.3	5.6	7.8	9	9.4	8.8	7.4	5.7	4.2	3.2	2.6	2	1.5	1.7	1.6
17	1.9	1.8	1.9	2.2	2.6	3	3.3	3.7	4.1	4.8	5.2	5.6	6.1	6.6	7.1	7.7	8.7	10.6	12.1	13.1	13.7	12.7	10.1	8.3	6.5
18	6.7	5.6	4.7	4.1	3.6	3.3	3	2.9	2.9	3.4	5.6	9.2	11.7	13.3	14.3	14	13.8	11.7	8.9	7.2	6.1	5.3	4.9	4.5	7.1
19	3.9	3.9	4.4	4.7	4.9	4.9	4.7	4.5	4.9	5.9	6.4	6.6	6.5	6.1	6.1	6.2	5.6	4.7	3.4	2.3	1.5	1.1	0.9	0.8	4.4
20	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.2	0.3	0.9	2.1	2.6	2.7	2.7	2.3	0.4	-2.5	-4.5	-5.5	-6.3	-7.1	-7.5	-0.6
21	-7.7	-8.1	-8.5	-8.6	-8.3	-7.8	-7.6	-7.5	-5.6	-2.3	0.6	2.7	4.5	5.7	6.1	5.9	4.9	2.6	-0.7	-2.6	-3.3	-3.7	-3.8	-3.8	-2.4
22	-3.8	-3.5	-2.8	-2	-0.9	-0.3	0	0.8	2	4.2	7.4	10.2	13	13.6	13.3	13.9	14.6	13.7	12.6	11.9	11.3	11.1	11	11	6.8
23	10.3	8.8	8	7.7	7.3	6.8	6.2	5.6	5.4	6	6.9	9.3	12.4	13.9	13.8	13.7	12.8	9.9	6.8	4.9	3.7	3	3	3.2	7.9
24	3.2	3.2	3	2.9	3.2	3.6	3.8	3.8	4.4	5.5	7	8.8	10.8	12.3	12.1	9.1	6.7	5	3	1.2	-0.1	-1.3	-1.8	-2.2	4.5
25	-2.1	-1.8	-1.7	-2.1	-2.8	-3.4	-3.9	-4.3	-3.3	-1.1	1.1	2.9	4.4	6	6.7	6.3	5.6	3.5	0.2	-2.1	-3.6	-4.3	-5.4	-5.9	-0.5
26	-5	-4.4	-4.4	-3.9	-3	-3	-3.2	-2.6	-1.6	-0.2	2.1	4.9	6.3	7.4	6.9	5.8	4.7	3.4	2.5	2.2	2.2	2.2	2.2	1.9	1
27	1.6	1.7	0.9	0.1	-0.8	-2.1	-2.9	-3.1	-1.3	2.7	6.5	9.4	11.2	11.4	10.4	9.9	8.9	6.7	4.3	2.7	1.7	0.4	-0.5	-1	3.3
28	-1.1	-1.3	-1.9	-2.5	-2.8	-3.2	-3.6	-3.9	-2.5	1.2	5.2	8	9.6	10.9	11.6	11.9	11.6	9.7	6.4	4.3	2.6	1.9	2.1	1.8	3.2
29	1.7	1.5	1.3	1	0.5	1.2	2.7	3.7	4.4	6.1	8.8	11.5	12.8	13.6	14.7	15.8	15.9	15.3	13.6	12.4	11.6	11.1	11.4	12.4	8.5
30	12.8	12.8	12.8	12.6	12.9	13.4	12.6	12.6	13.4	14.6	16.1	16.9	18.4	18.7	18.2	17.6	16.9	14.6	10.5	7.4	5.4	3.8	1.9	0.5	12.4
31	-0.5	-0.8	-1.1	-1.1	-0.5	0.3	0.7	0.8	2.3	5	7.6	9.3	9.4	9.3	9.2	8.5	7.3	6.4	5.9	5.9	6.1	6.4	6.8	7.3	4.6
Avg	3.8	3.6	3.4	3.2	3.2	3.2	3	3	3.8	5.6	7.9	9.9	11.3	12	12.2	12	11.4	9.8	7.8	6.5	5.7	5	4.4	4.1	6.5
S D	6.8	6.8	6.8	6.8	6.8	6.9	6.9	6.9	6.5	5.8	5.6	5.6	5.8	6	6.1	6.3	6.2	6.3	6.3	6.5	6.7	6.7	6.7	6.8	5.9
S/A	1.79	1.87	2	2.1	2.14	2.17	2.26	2.32	1.72	1.03	0.71	0.57	0.51	0.5	0.5	0.52	0.55	0.63	0.81	1.01	1.18	1.34	1.51	1.66	0.91
Min	-7.7	-8.1	-8.5	-8.6	-8.4	-8.4	-8.4	-8.7	-6.6	-2.3	0.1	0.9	2.1	2.6	2.7	2.7	2.3	0.4	-2.5	-4.5	-5.5	-6.3	-7.1	-7.5	-2.4
Max	16.4	15.9	15.8	16.2	16.9	17.2	17.3	17.5	17.8	17.7	18.3	20.5	23.1	24.2	24.3	24.4	23.7	21.2	19	18.6	17.9	17.7	17.4	16.8	17.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: CSI Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

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.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

January 2008

Wind Speed
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

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	1.5	0.6	0	0.2	1.1	1.3	1.3	0.4	1.3	4	5	6	4.3	4	4.4	4.6	3.7	3.1	2.9	3.1	2.8	2.3	2.6	2.8	2.6
2	3	3.5	3.5	3.6	3.7	4.5	4.8	4.3	4.4	5.8	5.7	5.1	4.9	4.8	4.9	4.3	3.7	3.3	3.3	3.7	5.5	4.7	4.5	4.4	4.3
3	4.5	4.2	4.1	4.3	3.9	3.9	3.1	2.4	3.3	4.3	4.8	5.2	5.3	4.8	5	4.5	3.1	1.7	1.2	0.8	0.9	0.3	0.4	0.6	3.2
4	0.6	0.4	0.8	0.5	0.7	0.9	0.3	0.1	0.8	1.9	2.4	2.8	3.4	3.4	3.6	3.4	2.5	1.3	0.8	1.5	1.8	1.4	1.3	1.3	1.6
5	1	1.2	1.2	1.4	1.3	1.1	1.2	1.4	1.8	2.4	2.6	4.4	3.8	3.8	3.4	2.2	1.6	1.8	1.6	1.1	1	1.6	2.1	2.2	2
6	2	1.4	1.2	2.5	2.6	1.7	1.8	2.2	2.4	3.4	3.9	4.8	5.3	5.6	4.6	3.4	2.6	1.3	1	1.5	1.4	1.4	1.5	1.5	2.5
7	1.5	0.9	1.4	1	1.1	0.5	0.1	0.3	1.1	2.6	2.9	4	5	4.4	3.4	3.4	2.5	1.4	1	1.4	1.5	1.7	1.8	1.6	1.9
8	1.4	1.6	1.7	1.7	1.7	1.2	0.6	0.4	1.4	1.4	2.4	2.9	3.9	3.4	3	2.8	2.5	2.5	2.7	2.3	2.3	2.2	2.5	2.7	2.1
9	2.9	3.2	3.3	2.8	2.8	3	2.8	3.1	3.7	3.7	3.6	5.1	6	5.2	4.3	3.4	2.5	1.1	1	1.8	1.6	2.4	3.3	3.4	3.2
10	2.7	2.7	2.7	2.5	2	2.3	3.1	3.1	3.3	3.9	4.2	3.7	3.1	2.4	2.1	1.9	1.7	1.6	0.9	1.2	1.3	1.8	1.4	1.8	2.4
11	2.8	2.5	3	3.6	4	3.5	3.1	3.9	4.2	3.9	4.6	5.5	5.4	4.8	4.1	4.1	3.9	3.7	3.1	2.9	2.3	1.6	1.7	1.1	3.5
12	0.3	0.5	3.2	4	3.2	2.7	2.2	3.3	3.8	4.7	4.5	4.3	4.7	4.2	4.4	4	3.2	2.2	1.8	1.5	1.8	1.8	1.3	1.1	2.9
13	1.7	1.5	1.7	1.9	2.1	2.5	4.3	3.9	3.7	3	3.3	2.9	3.1	3.3	3.4	3.3	3	2.3	2	2.5	2.5	1.8	1.3	1.9	2.6
14	2.3	2.1	2	2.8	2.6	1.2	0.4	0.5	1.8	2.6	3.4	4.7	4	3.5	3.7	4.1	3.3	3	3.6	2.8	2.2	1.7	1.9	2.4	2.6
15	2.3	1.5	1.3	1.4	1.7	1.7	1.4	1.5	2.3	3.1	3.5	4.5	4.6	5.1	5.3	4.8	4.7	4.1	2.9	2.5	2.6	2.3	1.8	2.2	2.9
16	2.3	2.2	2.4	2.1	1.8	1.4	1.6	1.3	2	2.5	4.3	3.2	2.8	2.9	1.6	0.9	1.2	1.4	1.3	1.5	0.3	0.1	0.4	0.3	1.7
17	0	0.3	1	1.6	1.8	2	2.4	2.9	3.2	3.3	4.2	3.9	4.3	3.3	4	3.1	3.6	5.7	5.1	2.7	2	3.6	3.9	4.4	3
18	4.5	4.4	4.2	4.6	4.5	3.5	3.6	2.4	3	2.4	2.4	3	3.4	3.7	3	2.3	1.9	1.4	1.6	1.4	1	1.2	1.2	0.7	2.7
19	0.5	1.1	0.8	0.2	0.3	1	0.3	1.3	1.8	1.9	2.7	2.9	2.8	2.4	1.8	2.3	3.2	3.6	3.4	2.2	2.5	2.6	1	0	1.8
20	0.4	0.1	0	0.1	0.9	1.5	2	2.1	3.2	3.7	1.8	0	3	4.3	3.7	4	3.3	1.8	0.2	0.4	0.5	0.1	0.7	0.9	1.6
21	0.9	0.5	0.5	0.9	1.4	1.5	1	1.1	2.2	2.8	3.3	2.5	1.6	1.3	1.2	1.8	1.2	1.7	1.1	1.6	1.6	1.7	1.4	0.8	1.5
22	0.5	0.6	1.1	1.2	0.6	1.1	1.2	1	2.2	1.7	2	3.5	4	4.2	3.2	2.4	2.1	1.7	1.5	1.2	0.5	0.6	0.9	2.3	1.7
23	2.7	2.4	2.9	3.4	2.8	1.6	1.7	1.1	1	1.7	2	1.5	2.4	2.6	2.3	2.2	2.4	2.2	1.4	0.6	0.3	1.2	1.3	0.4	1.8
24	0.4	0.1	0.1	0.4	0.7	0.2	0.1	0	0.4	1.3	1.5	2	3.4	4.2	4.7	3.6	4.3	4.4	3.5	2.8	1.1	1.4	1.2	1.3	1.8
25	2.8	5	3.5	3.1	2.8	3.2	3.5	3.6	2.7	3.3	3.5	3.1	1.9	1.4	1.8	2.1	2.5	1.4	0.9	0.2	0.8	0.2	0	0.7	2.2
26	0.3	0.7	0.8	1.5	0.6	0	0.3	0.9	0.4	1.1	1.8	2.1	1.8	1.8	1.7	1.6	2.4	1.8	0.1	0.3	0.3	1.4	0.6	1	1.1
27	0.7	0.5	0.8	0.9	0.4	0.5	0.6	0.9	0.8	2.3	2.5	3.3	3.5	4	3.3	3.2	2.8	1.9	1.2	1.9	0.8	0.8	1.4	1.5	1.7
28	1.2	1.1	1.1	1.1	0.6	0.5	1	1	1	1.4	2.5	3	2.9	2.9	2.8	2.7	1.7	1	1.1	0.6	0.8	1.5	0.7	1.3	1.5
29	0.8	1.5	1.5	0.7	0.3	1.8	1.7	1.3	1.7	2.6	3.5	3.7	3.3	3.5	3.7	3.5	3.2	2.5	3.1	3.3	3	3.5	4.1	4.1	2.6
30	3.8	3.7	3.4	3.7	4.7	6.3	5.2	6.3	5.5	6.4	6.4	5.6	6.5	6.3	5	3.7	2.8	1.9	1	0.7	0.5	0	0.4	0.2	3.8
31	0.5	0.6	0.5	1.8	2.8	3.4	3.1	3.3	4.3	5.9	6.1	5.7	5	5.1	6.1	5.6	5.1	4.5	4.3	4.5	4.3	4.5	4.4	4.8	4
Avg	1.7	1.7	1.8	2	2	2	1.9	2	2.4	3.1	3.5	3.7	3.8	3.7	3.5	3.2	2.8	2.4	2	1.8	1.7	1.7	1.7	1.8	2.4
SD	1.3	1.4	1.3	1.3	1.3	1.4	1.4	1.5	1.3	1.4	1.3	1.4	1.2	1.2	1.2	1.1	0.9	1.2	1.3	1.1	1.2	1.2	1.2	1.3	0.8
S/A	0.74	0.81	0.7	0.67	0.65	0.71	0.73	0.75	0.55	0.44	0.37	0.37	0.32	0.32	0.34	0.33	0.33	0.49	0.64	0.58	0.71	0.68	0.71	0.73	0.33
Min	0	0.1	0	0.1	0.3	0	0.1	0	0.4	1.1	1.5	0	1.6	1.3	1.2	0.9	1.2	1	0.1	0.2	0.3	0	0	0	1.1
Max	4.5	5	4.2	4.6	4.7	6.3	5.2	6.3	5.5	6.4	6.4	6	6.5	6.3	6.1	5.6	5.1	5.7	5.1	4.5	5.5	4.7	4.5	4.8	4.3
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

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.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

January 2008

Wind Direction
Hourly and Daily Averages
Instrument: NRG Vane
Degrees from North

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	164	161	189	187	182	188	198	262	265	291	299	313	328	324	319	321	336	341	345	346	339	332	329	330	318
2	336	329	322	321	316	319	318	321	322	325	323	326	335	343	350	349	338	344	346	2	6	7	6	6	338
3	10	12	21	20	18	13	8	3	7	14	23	26	33	33	29	22	23	13	10	10	0	358	274	302	18
4	321	300	309	328	319	296	272	312	291	282	287	287	275	267	273	270	270	262	246	263	263	258	256	257	275
5	256	257	246	244	253	257	241	245	251	263	263	286	265	261	268	240	238	244	254	237	230	243	251	249	256
6	251	253	254	273	276	274	265	271	277	279	289	282	291	293	283	271	264	249	238	246	250	232	242	248	273
7	253	245	259	231	261	265	259	251	273	281	293	283	290	282	275	266	267	261	237	227	224	249	244	246	268
8	240	246	237	240	240	234	244	237	243	241	250	243	252	242	242	242	229	220	220	229	230	218	226	228	236
9	234	232	232	249	230	228	238	241	245	256	259	276	289	303	298	283	276	267	270	285	337	43	88	96	264
10	99	94	98	94	93	100	113	110	113	116	115	115	120	119	111	99	83	98	76	104	145	164	193	208	112
11	202	207	218	228	236	236	236	233	233	230	228	231	238	242	236	235	231	231	233	236	260	262	260	258	233
12	241	308	49	61	73	65	77	90	90	87	78	80	84	89	91	87	95	93	81	76	55	69	62	64	79
13	81	64	64	43	56	89	101	103	103	94	97	83	77	70	77	70	55	31	8	13	23	4	350	348	67
14	333	339	333	334	342	331	317	293	306	312	316	314	323	317	304	296	291	316	319	337	342	339	340	334	321
15	339	331	304	295	302	303	303	301	314	329	324	317	323	324	325	330	336	338	340	332	317	324	329	325	324
16	325	332	343	343	344	346	347	337	328	10	46	47	78	78	52	31	60	75	101	102	106	131	115	108	26
17	281	70	84	85	78	83	93	98	102	102	104	107	102	97	98	108	151	167	167	183	309	323	319	318	109
18	314	316	317	317	323	322	322	330	323	329	322	309	313	319	321	281	232	266	269	271	273	291	276	270	310
19	225	271	286	356	355	358	5	36	31	9	44	87	90	84	60	11	26	35	46	42	40	43	28	22	41
20	2	358	0	338	335	329	323	339	13	37	37	0	339	349	357	358	1	3	3	331	335	329	316	317	356
21	331	342	10	16	21	25	28	45	54	68	73	87	79	123	107	147	165	153	137	126	133	133	127	124	90
22	80	71	96	98	53	43	83	134	157	167	192	206	208	221	229	244	236	231	232	233	244	253	261	310	210
23	324	316	302	305	314	313	322	324	353	26	32	66	79	110	113	124	148	138	119	104	112	153	159	162	30
24	207	185	197	203	200	177	159	145	187	177	199	240	292	319	338	353	8	25	44	49	26	27	6	4	354
25	17	29	23	23	15	19	24	28	25	37	47	51	47	8	326	307	306	282	274	286	269	266	261	266	15
26	266	264	255	271	281	243	124	203	257	257	221	227	238	233	205	206	182	179	169	180	306	346	356	341	232
27	354	1	78	341	345	343	355	356	9	36	36	40	19	17	24	358	18	8	7	73	47	333	311	319	16
28	325	334	337	345	4	356	330	323	334	354	4	10	13	351	339	346	335	326	308	291	282	299	263	274	339
29	260	268	268	262	238	244	258	236	237	241	253	269	266	245	242	234	242	240	234	241	238	239	248	241	246
30	244	238	247	240	246	235	250	252	256	274	291	325	329	321	330	331	346	356	345	349	12	308	258	358	283
31	349	44	62	54	59	71	66	79	89	94	92	88	85	79	86	91	95	95	99	100	100	102	101	107	89
Avg	308	315	320	324	323	322	330	327	328	340	344	327	329	326	331	323	324	335	326	336	332	330	303	305	330
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: NRG Vane Serial Number: 0 Calibration Factor: 0.1408 deg/mV Calibration Date: 06/1995

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.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

January 2008

Peak Wind Speed (1-Minute Gust)
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

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	2.5	1.3	0.1	0.5	2	2.3	2.4	1.5	2.6	6.4	7.9	9.7	8	7.4	8.1	8.5	7.3	6.3	5.8	6	5.5	4.8	4.7	5.3	4.9
2	5.9	6.7	6.3	6.2	6.4	7.7	8	7.5	8.3	10.2	10.2	9.2	9.3	9	9.7	8.7	7.2	6.5	6.1	7.6	10.4	9.3	9.3	9	8.1
3	9	8.3	7.8	8.3	7.7	7.8	6.2	5	6.5	8.5	8.9	9.6	9.3	8.5	8.8	7.8	6	3.4	2.6	2	1.7	0.8	0.9	1	6.1
4	1.3	0.8	1.2	1	1.3	1.4	0.7	0.1	1.2	3	3.8	4.6	5.3	5.5	5.9	5.1	4.1	2.1	1.4	2.3	2.7	2.2	2	2	2.5
5	1.6	2	1.8	2.2	2	1.8	1.7	2.2	3	4	4.2	6.5	6.1	6.2	5.3	3.5	2.6	3.1	2.7	2	1.9	2.5	3.4	3.6	3.1
6	3.7	2.3	2.1	3.8	4.3	3	2.8	3.6	3.7	5	6.3	7.4	8.3	8.9	7	5.6	4.1	2.2	1.8	2.5	2.1	2.3	2.5	2.4	4.1
7	2.2	1.6	2.2	1.5	1.9	1.3	0.6	1	2.2	4.2	4.9	6.2	7.5	7	5.6	5.5	3.9	2.1	1.6	2.2	2.5	2.9	3.1	2.9	3.2
8	2.4	2.5	2.6	2.9	3.2	2.4	1.7	1.2	2.6	2.7	4.2	5	6.3	5.4	4.9	4.6	4.4	4	4.4	4.1	4	3.6	4	4.7	3.7
9	4.8	5.6	5.6	4.6	4.6	5	4.7	5.5	6.5	6.3	6.4	8.3	9.5	8.4	6.8	5.4	3.9	1.7	1.6	2.7	2.5	3.9	5.5	5.4	5.2
10	4.6	4.5	4.4	4.2	3.4	3.7	5	5.1	5.3	6.4	6.7	6	5.1	4	3.4	3.2	2.8	2.6	1.7	2.2	2.2	2.7	2.5	3.1	3.9
11	4.6	4.3	4.9	6	7	6.5	5.6	6.7	7.6	6.9	8.1	9.3	9.4	8.1	6.9	6.9	6.7	6	5.3	5.1	3.9	2.9	2.9	2	6
12	0.9	1	5.6	6.6	5.5	4.6	3.9	5.6	6.8	7.8	7.6	7.2	7.7	6.6	7	6.4	5.2	3.5	3.2	2.5	2.9	3.1	2.3	2.1	4.8
13	2.9	2.5	2.8	2.9	3.6	4.3	6.8	6.7	6.4	5.2	5.2	5.1	5	5.5	5.8	5.8	5.5	4.6	4.1	5.1	5.2	4	3.1	4.3	4.7
14	4.7	4.8	4.4	5.8	5.3	3.3	1.3	1.2	3.3	4.7	6.2	7.2	7.3	6.3	6.3	6.5	5.2	5.2	6.1	5.3	4.2	3.2	3.5	4.9	4.8
15	4.2	3.3	2.1	2	2.4	2.7	2.2	2.1	3.7	5.5	6.1	7.2	8.7	9.4	9.8	9.6	9	8.2	6	4.8	4.2	4.3	3.7	4	5.2
16	4.1	4.1	4.8	4.2	3.5	2.6	3.2	2.4	3.7	4.8	7.1	5.7	4.8	4.7	3.4	2	2.4	2.4	2.5	2.7	1	0.3	0.8	0.8	3.3
17	0.1	0.8	1.8	2.9	3.1	3.3	4	4.7	5.3	5.8	7	6.7	6.9	5.8	6.6	4.9	6	9.5	8.6	5.2	3.8	6.3	7.1	7.8	5.2
18	7.4	7.7	7.1	7.8	8.1	6.7	6.7	5.1	5.5	4.9	4.9	5.2	5.6	6.9	5.3	3.9	3.4	2.3	2.7	2.2	1.7	1.9	1.9	1.2	4.8
19	1.2	2	1.4	0.6	0.8	2.4	0.8	2.4	3.1	4.2	4.7	4.9	4.9	4.6	3.7	5.2	6.1	6.4	5.8	4.1	4.9	4.8	2.7	0.4	3.4
20	2	0.7	0	1	2.8	3.8	3.9	4.5	6.7	8.1	3.9	0	5.6	8.5	7.4	7.8	6.9	4.4	0.9	1.6	1.6	0.7	1.6	1.8	3.6
21	2.4	1.7	1.8	2.4	3.3	3.4	2.6	2.6	3.9	4.9	5.5	4.6	3.4	2.9	2.6	3	2.3	2.9	2.1	2.7	2.6	2.9	2.3	1.4	2.9
22	0.9	1.3	2	2.2	1.4	2.3	2.5	2	3.5	3.1	3.7	5.9	6.5	6.9	5.4	4.6	3.7	3.2	2.9	2.7	1.7	1.9	2.1	4.3	3.2
23	5.3	4.5	4.9	5.6	5	3.5	3.6	2.9	2.6	4	4.1	3.4	4.3	4.6	3.8	3.7	3.8	3.7	2.5	1.6	1.2	2	2.4	1.2	3.5
24	1	0.7	0.4	1.1	1.5	0.9	0.6	0	1.1	2.5	2.8	3.3	5.4	7.2	9	7.2	8.3	8.7	6	4.4	2.4	2.9	2.7	2.9	3.5
25	5.7	8.9	6.5	6.2	5.4	6.6	6.3	6.7	5.4	6.2	6.2	5.8	4	3.3	3.5	3.8	3.9	2.2	1.4	0.6	1.2	0.4	0.4	1.2	4.2
26	0.7	1.1	1.4	2.5	1.3	0.1	0.6	1.7	1	1.9	3.1	3.4	3.1	3.1	2.8	2.7	3.8	3.3	0.4	0.6	1	3.1	1.8	2	1.9
27	1.8	1.3	1.5	1.8	1	1.1	1.4	1.7	2.3	4.5	5.2	6	7	7.6	6.5	6.3	5.5	3.8	2.3	3.2	2	1.5	2	2.3	3.3
28	2	2.1	2.1	2.3	1.5	1.3	1.8	1.8	2.3	3.1	5.3	6	5.7	6.1	6.1	5.1	3.4	2.1	1.6	1.1	1.5	2	1.3	1.8	2.9
29	1.4	2.2	2.3	1.3	1	2.8	2.6	2.3	2.9	4.1	5.6	5.9	5.3	5.7	6	5.8	5.5	4.1	5.2	5.4	5.1	6.2	6.5	7	4.3
30	6.3	6	5.7	6	7.6	10.1	8.9	10.7	9.2	10.6	9.8	10.9	12.2	11	9.4	7.2	6.2	4	2.1	1.6	1.3	0.3	0.8	0.4	6.6
31	1	1.1	1	2.8	4.4	5.7	5.4	5.6	7	9.4	10	9	8.6	8.5	9.8	9.5	8.2	7.7	6.9	7.3	7.1	7.1	7.2	8.1	6.6
Avg	3.2	3.2	3.2	3.5	3.6	3.7	3.5	3.6	4.4	5.5	6	6.3	6.7	6.6	6.2	5.7	5.1	4.3	3.5	3.3	3.1	3.1	3.1	3.3	4.3
SD	2.2	2.4	2.2	2.2	2.2	2.4	2.3	2.5	2.2	2.2	2	2.3	2.1	2	2.1	2	1.8	2.2	2.1	1.9	2.1	2.1	2.1	2.3	1.4
S/A	0.69	0.76	0.69	0.63	0.6	0.64	0.67	0.69	0.51	0.41	0.33	0.36	0.31	0.3	0.34	0.35	0.36	0.5	0.6	0.56	0.66	0.66	0.67	0.71	0.32
Min	0.1	0.7	0	0.5	0.8	0.1	0.6	0	1	1.9	2.8	0	3.1	2.9	2.6	2	2.3	1.7	0.4	0.6	1	0.3	0.4	0.4	1.9
Max	9	8.9	7.8	8.3	8.1	10.1	8.9	10.7	9.2	10.6	10.2	10.9	12.2	11	9.8	9.6	9	9.5	8.6	7.6	10.4	9.3	9.3	9	8.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

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.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

January 2008

Station Pressure
Hourly and Daily Averages
Instrument: Viasala PTA-427
Millibars

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	1017	1016	1016	1015	1014	1013	1012	1011	1011	1011	1011	1010	1009	1008	1008	1009	1009	1010	1011	1012	1013	1012	1012	1012	1012
2	1012	1012	1012	1012	1012	1013	1014	1014	1015	1015	1016	1016	1015	1016	1016	1017	1018	1019	1020	1022	1023	1024	1025	1026	1017
3	1027	1027	1028	1029	1031	1032	1033	1035	1036	1036	1037	1036	1036	1035	1035	1035	1036	1036	1037	1038	1038	1038	1038	1038	1035
4	1038	1038	1038	1037	1037	1038	1038	1038	1039	1039	1039	1038	1036	1035	1034	1034	1034	1034	1033	1034	1033	1033	1033	1032	1036
5	1031	1031	1031	1030	1030	1030	1030	1030	1030	1031	1030	1029	1028	1027	1026	1026	1026	1026	1026	1026	1027	1026	1026	1025	1028
6	1025	1025	1025	1025	1025	1025	1025	1025	1025	1026	1026	1026	1025	1024	1023	1023	1023	1023	1024	1024	1024	1024	1024	1024	1024
7	1024	1024	1024	1024	1024	1025	1025	1026	1026	1027	1027	1026	1025	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1025
8	1024	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1024	1023	1022	1022	1021	1020	1020	1020	1020	1020	1019	1019	1018	1022
9	1017	1017	1017	1017	1016	1015	1015	1015	1015	1016	1016	1015	1014	1014	1014	1014	1014	1015	1015	1016	1017	1018	1019	1019	1016
10	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1019	1018	1017	1016	1016	1015	1015	1015	1014	1014	1013	1013	1012	1017
11	1011	1010	1010	1010	1009	1009	1009	1008	1009	1009	1008	1007	1006	1006	1006	1006	1006	1006	1007	1007	1008	1008	1009	1009	1008
12	1009	1009	1010	1010	1011	1011	1012	1013	1014	1015	1015	1015	1014	1014	1014	1014	1015	1015	1016	1016	1017	1016	1017	1016	1014
13	1016	1016	1015	1016	1015	1015	1015	1015	1015	1015	1015	1013	1012	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1013
14	1010	1010	1010	1010	1011	1011	1011	1011	1012	1013	1012	1011	1011	1010	1010	1010	1010	1011	1012	1013	1013	1014	1014	1014	1011
15	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1012	1011	1011	1012	1012	1014	1015	1016	1017	1018	1019	1019	1014
16	1019	1020	1021	1021	1021	1022	1023	1023	1025	1026	1026	1025	1024	1023	1023	1024	1024	1025	1026	1025	1026	1027	1026	1026	1024
17	1027	1026	1025	1024	1024	1023	1023	1022	1021	1021	1020	1018	1016	1015	1013	1011	1010	1009	1008	1007	1008	1008	1009	1010	1017
18	1010	1011	1011	1012	1011	1012	1013	1014	1015	1016	1016	1016	1015	1015	1015	1016	1016	1016	1017	1017	1017	1017	1017	1017	1015
19	1017	1017	1017	1016	1016	1017	1016	1016	1016	1017	1018	1016	1014	1012	1011	1013	1013	1014	1014	1013	1012	1011	1012	1012	1015
20	1012	1012	1013	1013	1013	1015	1016	1017	1019	1021	1022	1023	1023	1023	1024	1025	1027	1028	1030	1031	1032	1033	1034	1034	1023
21	1035	1036	1036	1036	1037	1038	1039	1040	1040	1041	1042	1041	1040	1039	1039	1039	1039	1039	1039	1039	1038	1037	1037	1036	1038
22	1035	1034	1033	1032	1031	1030	1030	1029	1028	1027	1026	1025	1023	1022	1020	1019	1019	1018	1017	1017	1016	1016	1015	1015	1024
23	1015	1015	1014	1014	1014	1014	1014	1015	1016	1017	1017	1017	1016	1016	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1015
24	1015	1014	1014	1014	1013	1013	1012	1012	1012	1012	1011	1010	1009	1008	1009	1010	1012	1014	1015	1016	1017	1018	1019	1020	1013
25	1021	1023	1024	1025	1026	1027	1028	1029	1030	1031	1031	1030	1029	1028	1028	1028	1028	1028	1028	1028	1029	1028	1028	1027	1028
26	1026	1026	1026	1026	1025	1025	1025	1024	1024	1025	1024	1023	1021	1020	1020	1019	1018	1017	1017	1016	1016	1016	1016	1015	1021
27	1015	1014	1013	1013	1014	1014	1015	1015	1016	1016	1016	1015	1014	1014	1014	1015	1015	1016	1016	1017	1017	1017	1018	1018	1015
28	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1018	1017	1017	1016	1017	1017	1017	1017	1017	1017	1017	1017	1018
29	1016	1015	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1011	1010	1009	1008	1008	1008	1008	1008	1008	1007	1007	1011
30	1006	1005	1004	1004	1003	1003	1003	1004	1005	1006	1007	1009	1009	1009	1010	1012	1013	1015	1016	1017	1018	1019	1021	1022	1010
31	1022	1022	1023	1024	1025	1026	1027	1028	1029	1029	1030	1030	1030	1030	1030	1030	1029	1029	1029	1029	1028	1027	1026	1025	1027
Avg	1019	1019	1019	1019	1019	1019	1020	1020	1021	1021	1021	1020	1019	1019	1018	1018	1019	1019	1019	1020	1020	1020	1020	1020	1020
S D	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	1006	1005	1004	1004	1003	1003	1003	1004	1005	1006	1007	1007	1006	1006	1006	1006	1006	1006	1007	1007	1008	1007	1007	1007	1008
Max	1038	1038	1038	1037	1037	1038	1039	1040	1040	1041	1042	1041	1040	1039	1039	1039	1039	1039	1039	1039	1038	1038	1038	1038	1038
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: Viasala PTA-427 Serial Number: 493926 Calibration Factor: 0.104 mBar/mV + 800 mBar Calibration Date: 06/1995

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.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

January 2008

Battery Voltage (CR10)
Hourly and Daily Averages
Instrument: CSI
Volts DC

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	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.6	13.7	13.6	13.5	13.5	13.5	13.5	13.4	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.5	13
2	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13	14	13.9	13.9	13.9	13.9	13.9	13.9	14	13.5	12.7	12.6	12.6	12.6	12.6	12.6	12.5	13.1
3	12.5	12.5	12.5	12.4	12.4	12.4	12.4	13.1	14.1	14	14	13.9	13.9	13.9	13.9	13.9	13.8	12.7	12.7	12.6	12.6	12.6	12.6	12.5	13.1
4	12.5	12.5	12.5	12.5	12.4	12.4	12.4	13.2	14.1	14	13.9	13.8	13.8	13.8	13.8	13.8	13.6	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1
5	12.6	12.5	12.5	12.5	12.5	12.5	12.4	13.1	14	13.9	13.8	13.7	13.7	13.7	13.7	13.6	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13
6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7	13.5	13.6	13.5	13.5	13.4	13.4	13.3	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
7	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.6	13.6	13.5	13.4	13.4	13.4	13.3	13.3	13.2	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
8	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13.6	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
9	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.8	13.5	13.5	13.5	13.5	13.4	13.4	13.4	13.2	13	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
10	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.6	13.6	13.6	13.5	13.5	13	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
11	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.6	12.6	12.6	12.8	13	13.3	13.4	13.4	13	12.7	12.7	12.7	12.7	12.6	12.6	12.7
12	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	13.4	13.6	13.6	13.6	13.6	13.7	13.7	13.4	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
13	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.9	13.1	13.1	13.2	12.8	12.8	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.4	12.6
14	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.7	13.3	13.7	13.7	13.7	13.5	13.5	13.5	13.7	13.6	12.8	12.7	12.6	12.6	12.6	12.6	12.6	12.9
15	12.6	12.5	12.5	12.5	12.5	12.5	12.4	13.1	14	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.7	12.8	12.7	12.6	12.6	12.6	12.6	12.5	13.1
16	12.5	12.5	12.5	12.5	12.5	12.4	12.4	13	14	13.9	13.9	13.8	13.8	13.7	13.8	13.8	13	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
17	12.6	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.5	12.4	12.5	12.5	12.4	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5
18	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.5	13.6	13.7	13.6	13.6	13.6	13.6	13.6	13.5	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.9
19	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.7	12.6	12.7	12.7	12.8	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.6
20	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.6	13.4	13.3	13.9	13.9	13.9	13.9	13.9	13.9	12.8	12.7	12.6	12.6	12.6	12.6	12.5	12.9
21	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.3	14.1	14	14	13.9	13.9	13.8	13.8	13.8	13.9	12.8	12.7	12.6	12.6	12.6	12.6	12.5	13.1
22	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.9	13.6	13.7	13.7	13.6	13.6	13.6	13.6	12.9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
23	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.1	13.5	13.8	13.7	13.6	13.6	13.6	13.6	13.5	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9
24	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.8	13.5	13.7	13.6	12.9	12.7	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7
25	12.4	12.4	12.4	12.4	12.4	12.4	12.4	13	14	14	13.9	13.9	13.8	13.8	13.8	13.8	13.9	12.8	12.7	12.6	12.6	12.6	12.5	12.5	13
26	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.6	12.9	13.2	13.8	13.8	13.8	13.8	13.5	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.8
27	12.5	12.5	12.4	12.4	12.4	12.4	12.4	13	14	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13	12.7	12.7	12.6	12.6	12.6	12.6	12.5	13
28	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.9	14	13.9	13.8	13.8	13.7	13.7	13.7	13.7	13.6	12.8	12.7	12.6	12.6	12.6	12.6	12.6	13
29	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.6	13.5	13.7	13.7	13.7	13.6	13.6	13.6	13.5	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.9
30	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.1	13.2	13.4	13.4	13.5	13.5	13.5	13.5	12.9	12.7	12.6	12.6	12.6	12.5	12.5	12.8
31	12.5	12.5	12.5	12.5	12.5	12.4	12.4	13.2	13.9	13.8	13.8	13.7	13.8	13.8	13.8	13.6	12.9	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
Avg	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.3	13.5	13.5	13.6	13.5	13.6	13.5	13.5	13.2	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0	0	0	0	0	0.01	0.01	0.02	0.05	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.01	0	0	0	0	0	0	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.5	12.4	12.5	12.5	12.4	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5
Max	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.3	14.1	14	14	13.9	13.9	13.9	13.9	14	13.9	12.9	12.7	12.7	12.7	12.7	12.6	12.6	13.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: CSI Serial Number: Battery Calibration Factor: N/A Calibration Date: 06/1995

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.