

October 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	36	159	415 ?	575	696	754	717	588	514	370	106	22	0	0	0	0	0	0	4951
2	0	0	0	0	0	0	42	192	377	539	656	715	480	413	283	202	106	20	0	0	0	0	0	0	4026
3	0	0	0	0	0	0	44	216	364	533	641	697	623	619	425	267	140	19	0	0	0	0	0	0	4588
4	0	0	0	0	0	0	27	98	312	525	488	400	369	604	438	190	100	13	0	0	0	0	0	0	3565
5	0	0	0	0	0	0	38	143	341	478	640	714	683	612	449	309	150	18	0	0	0	0	0	0	4575
6	0	0	0	0	0	0	31	152	307	267	264	226	331	253	194	115	42	8	0	0	0	0	0	0	2190
7	0	0	0	0	0	0	31	161	286	319	330	454	603	585	453	302	129	20	0	0	0	0	0	0	3672
8	0	0	0	0	0	0	23	152	321	396	506	704	374	274	368	208	81	13	0	0	0	0	0	0	3420
9	0	0	0	0	0	0	15	67	184	241	253	488	568	380	186	72	46	22	0	0	0	0	0	0	2522
10	0	0	0	0	0	0	17	91	178	402	231	279	298	268	244	98	29	4	0	0	0	0	0	0	2141
11	0	0	0	0	0	0	9	58	100	202	132	?	?	?	?	?	0 ?	0	0	0	0	0	0	0	501 ?
12	0	0	0	0	0	0	7	42	102	164	232	190	225	175	104	152	76	18	0	0	0	0	0	0	1488
13	0	0	0	0	0	0	30	141 ?	354	520	590	641	587	269	323	139	83	3	0	0	0	0	0	0	3680
14	0	0	0	0	0	0	15	77	152	323	446	675	702	466	370	304	87	17	0	0	0	0	0	0	3635
15	0	0	0	0	0	0	20	84	171	248	156	179	130	118	114	56	22	2	0	0	0	0	0	0	1299
16	0	0	0	0	0	0	9	78	143	259	313	258	193	189	144	81	63	4	0	0	0	0	0	0	1734
17	0	0	0	0	0	0	49	158	369	527	644	601	528	388	375	229	88	13	0	0	0	0	0	0	3970
18	0	0	0	0	0	0	36	182	379	539	652	705	692	609	468	290	94	9	0	0	0	0	0	0	4654
19	0	0	0	0	0	0	41	172	357	513	630	674	630	593	443	269	92	11	0	0	0	0	0	0	4425
20	0	0	0	0	0	0	27	121	222	417	408	398	437	341	180	110	46	5	0	0	0	0	0	0	2712
21	0	0	0	0	0	0	2	7 ?	45 ?	43 ?	54 ?	58 ?	73 ?	129	101	35 ?	16	3	0	0	0	0	0	0	567 ?
22	0	0	0	0	0	0	2	33 ?	79	132	261	332	365	305	149	172	81	5	0	0	0	0	0	0	1916
23	0	0	0	0	0	0	37	133 ?	334	506	603	649	634	553	422	253	79	6	0	0	0	0	0	0	4208
24	0	0	0	0	0	0	13	58	132	224	384	681	339	315	174	71	16	2	0	0	0	0	0	0	2407
25	0	0	0	0	0	0	7	34	139	129	100	204	166	66 ?	?	52	36	3	0	0	0	0	0	0	937 ?
26	0	0	0	0	0	0	6	78	208	360	424	470	488	394	218	133	34	2	0	0	0	0	0	0	2815
27	0	0	0	0	0	0	26	115	313	458	587	535	570	314	274	95	15	2	0	0	0	0	0	0	3304
28	0	0	0	0	0	0	2	4 ?	41	71	65	96	73 ?	46 ?	43 ?	41 ?	7	1	0	0	0	0	0	0	489 ?
29	0	0	0	0	0	0	3	23	69	52	60 ?	54 ?	67 ?	92	36 ?	31 ?	5	1	0	0	0	0	0	0	494 ?
30	0	0	0	0	0	0	2	15	32 ?	58 ?	89	105	115	114	85	65	24	3	0	0	0	0	0	0	707 ?
31	0	0	0	0	0	0	4	32	57	75	117	210	287	206	133	67	11	2	0	0	0	0	0	0	1201
Avg	0	0	0	0	0	0	21	99	222	326	376	438	412	343	266	159	61	9	0	0	0	0	0	0	2671
S D	0	0	0	0	0	0	15	60	124	178	219	237	213	187	147	100	42	7	0	0	0	0	0	0	1451
S/A	0	0	0	0	0	0	0.71	0.61	0.56	0.55	0.58	0.54	0.52	0.55	0.55	0.63	0.69	0.84	0	0	0	0	0	0	0.54
Min	0	0	0	0	0	0	2	4	32	43	54	54	67	46	36	31	0	0	0	0	0	0	0	0	489
Max	0	0	0	0	0	0	49	216	415	575	696	754	717	619	514	370	150	22	0	0	0	0	0	0	4951
n	0	0	0	0	0	0	298	338	348	361	362	348	343	350	335	342	358	152	0	0	0	0	0	0	3936

Daylight Data Recovery: 0.0% missing; 5.6% exceed the 15% QC threshold -- 4170 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25823F3 Calibration Factor: 9.830 μV/W/m<sup>2</sup> 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.

October 2002

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	6	364	760 ?	815	843	847	754	626	627	579	175	46	0	0	0	0	0	0	6440
2	0	0	0	0	0	0	87	323	477	577	618	560	227	251	184	186	142	46	0	0	0	0	0	0	3679
3	0	0	0	0	0	0	113	393	550	619	640	620	380	473	405	288	136	1	0	0	0	0	0	0	4617
4	0	0	0	0	0	0	12	0	229	424	234	80	64	435	268	49	75	1	0	0	0	0	0	0	1871
5	0	0	0	0	0	0	20	135	412	488	688	739	701	669	566	523	369	49	0	0	0	0	0	0	5359
6	0	0	0	0	0	0	13	131	233	19	8	1	4	1	2	0	0	0	0	0	0	0	0	0	412
7	0	0	0	0	0	0	24	256	234	24	40	178	424	633	484	516	325	43	0	0	0	0	0	0	3180
8	0	0	0	0	0	0	17	165	209	123	277	539	97	25	101	63	7	0	0	0	0	0	0	0	1622
9	0	0	0	0	0	0	0	0	4	9	3	166	196	49	1	0	0	24	0	0	0	0	0	0	451
10	0	0	0	0	0	0	0	3	5	177	5	3	8	12	17	0	0	0	0	0	0	0	0	0	230
11	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12	0	0	0	0	0	0	0	1	1	2	4	1	1	0	0	77	87	48	0	0	0	0	0	0	222
13	0	0	0	0	0	0	25	445 ?	659	717	538	567	474	19	100	6	7	0	0	0	0	0	0	0	3558
14	0	0	0	0	0	0	0	0	1	11	42	514	498	276	308	499	83	12	0	0	0	0	0	0	2243
15	0	0	0	0	0	0	0	0	9	35	0	0	0	0	1	1	0	0	0	0	0	0	0	0	47
16	0	0	0	0	0	0	0	1	2	6	10	1	1	1	1	0	10	0	0	0	0	0	0	0	32
17	0	0	0	0	0	0	109	533	780	846	866	644	414	124	305	329	166	56	0	0	0	0	0	0	5172
18	0	0	0	0	0	0	277	644	798	860	890	903	904	875	827	724	431	59	0	0	0	0	0	0	8193
19	0	0	0	0	0	0	246	567	724	788	818	800	669	655	705	596	400	104	0	0	0	0	0	0	7072
20	0	0	0	0	0	0	20	62	42	210	86	38	43	9	1	1	0	0	0	0	0	0	0	0	511
21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
22	0	0	0	0	0	0	0	0	0	1	4	23	14	35	0	133	281	0	0	0	0	0	0	0	492
23	0	0	0	0	0	0	81	431 ?	726	791	831	823	817	790	733	626	351	67	0	0	0	0	0	0	7066
24	0	0	0	0	0	0	0	0	0	9	246	752	165	34	3	0	0	0	0	0	0	0	0	0	1208
25	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
26	0	0	0	0	0	0	0	6	87	196	215	241	285	169	19	13	0	0	0	0	0	0	0	0	1230
27	0	0	0	0	0	0	73	150	528	610	710	242	420	64	104	37	0	0	0	0	0	0	0	0	2937
28	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30	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
31	0	0	0	0	0	0	0	0	0	0	1	1	2	12	0	0	0	0	0	0	0	0	0	0	17
Avg	0	0	0	0	0	0	36	149	241	270	278	299	244	201	186	169	98	18	0	0	0	0	0	0	2190
S D	0	0	0	0	0	0	69	205	300	330	343	334	289	283	263	243	142	28	0	0	0	0	0	0	2561
S/A	0	0	0	0	0	0	1.9	1.38	1.24	1.22	1.23	1.12	1.19	1.41	1.42	1.43	1.45	1.56	0	0	0	0	0	0	1.17
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	277	644	798	860	890	903	904	875	827	724	431	104	0	0	0	0	0	0	8193
n	0	0	0	0	0	0	298	359	367	372	372	372	372	372	372	372	372	372	152	0	0	0	0	0	4152

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 4170 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25519E6 Calibration Factor: 7.533 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.

October 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	39	74	66	61	66	76	107	123	127	123	64	19	0	0	0	0	0	0	945
2	0	0	0	0	0	0	34	100	147	169	191	264	294	230	175	118	69	18	0	0	0	0	0	0	1810
3	0	0	0	0	0	0	33	86	117	145	165	198	308	269	173	140	104	20	0	0	0	0	0	0	1757
4	0	0	0	0	0	0	29	103	196	247	311	340	319	282	271	168	83	13	0	0	0	0	0	0	2363
5	0	0	0	0	0	0	38	101	141	160	131	132	132	130	111	89	70	15	0	0	0	0	0	0	1250
6	0	0	0	0	0	0	30	111	192	261	270	237	336	262	201	121	44	8	0	0	0	0	0	0	2073
7	0	0	0	0	0	0	28	107	200	304	298	303	262	137	162	88	59	17	0	0	0	0	0	0	1964
8	0	0	0	0	0	0	25	97	224	298	290	271	292	262	303	172	80	13	0	0	0	0	0	0	2327
9	0	0	0	0	0	0	15	70	187	242	259	349	395	337	187	77	48	19	0	0	0	0	0	0	2185
10	0	0	0	0	0	0	20	92	181	274	235	288	297	264	230	103	31	4	0	0	0	0	0	0	2020
11	0	0	0	0	0	0	9	62	105	207	132	42 ?	33 ?	?	?	?	0 ?	0	0	0	0	0	0	0	591 ?
12	0	0	0	0	0	0	8	45	107	171	238	198	234	182	109	119	67	14	0	0	0	0	0	0	1491
13	0	0	0	0	0	0	28	61 ?	77	93	193	199	218	255	259	139	81	3	0	0	0	0	0	0	1604
14	0	0	0	0	0	0	17	79	154	310	391	263	303	252	188	100	64	16	0	0	0	0	0	0	2138
15	0	0	0	0	0	0	23	87	166	223	164	187	136	124	119	59	23	3	0	0	0	0	0	0	1316
16	0	0	0	0	0	0	10	81	148	259	313	268	204	195	147	83	61	5	0	0	0	0	0	0	1774
17	0	0	0	0	0	0	17	39	47	45	59	131	221	292	201	107	59	11	0	0	0	0	0	0	1230
18	0	0	0	0	0	0	15	39	49	55	57	57	54	52	47	38	25	8	0	0	0	0	0	0	496
19	0	0	0	0	0	0	25	47	62	72	86	101	148	174	83	62	35	9	0	0	0	0	0	0	905
20	0	0	0	0	0	0	29	107	207	285	342	360	392	339	189	114	49	6	0	0	0	0	0	0	2419
21	0	0	0	0	0	0	3	12 ?	28 ?	37	51	51	65	137	108	35	19	5	0	0	0	0	0	0	550
22	0	0	0	0	0	0	3	31	83	140	271	320	362	292	159	134	42	8	0	0	0	0	0	0	1845
23	0	0	0	0	0	0	16	43 ?	58	61	65	77	77	71	64	51	31	6	0	0	0	0	0	0	621
24	0	0	0	0	0	0	13	62	139	224	209	160	221	295	177	75	17	2	0	0	0	0	0	0	1594
25	0	0	0	0	0	0	9	38	145	138	107	216	175	59	25	49	37	3	0	0	0	0	0	0	1002
26	0	0	0	0	0	0	6	79	167	239	267	280	272	276	212	132	37	3	0	0	0	0	0	0	1970
27	0	0	0	0	0	0	24	79	108	126	135	335	269	272	214	81	15	2	0	0	0	0	0	0	1661
28	0	0	0	0	0	0	2	9 ?	43	71	66	101	63 ?	42	41	32	8	1	0	0	0	0	0	0	479
29	0	0	0	0	0	0	4	26	75	58	57	52	54	92	27 ?	26	6	1	0	0	0	0	0	0	479
30	0	0	0	0	0	0	2	15	27	57	94	110	121	120	88	68	25	3	0	0	0	0	0	0	729
31	0	0	0	0	0	0	5	34	60	78	122	218	293	199	138	69	11	2	0	0	0	0	0	0	1230
Avg	0	0	0	0	0	0	18	65	120	165	182	200	215	201	151	92	44	8	0	0	0	0	0	0	1446
S D	0	0	0	0	0	0	11	31	59	91	100	101	108	89	72	40	26	6	0	0	0	0	0	0	628
S/A	0	0	0	0	0	0	0.63	0.48	0.5	0.55	0.55	0.5	0.5	0.45	0.48	0.43	0.6	0.77	0	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	2	9	27	37	51	42	33	42	25	26	0	0	0	0	0	0	0	0	479
Max	0	0	0	0	0	0	39	111	224	310	391	360	395	339	303	172	104	20	0	0	0	0	0	0	2419
n	0	0	0	0	0	0	282	352	365	370	372	366	357	360	355	358	363	152	0	0	0	0	0	0	4052

Daylight Data Recovery: 0.0% missing; 2.8% exceed the 15% QC threshold -- 4170 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25819F3 Calibration Factor: 9.070 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.

**Elizabeth City State University**  
**36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5**

**October 2002**

**Dry Bulb Temperature (Tower)**  
**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	18.4	18	17.4	16.8	16.3	16.1	16.6	18.7	22.1	23.9	25.5	26.8	27.4	28.6	28.9	28.4	26.5	25	23.8	22.9	22.7	22.2	21.5	21	22.3	
2	21.1	20.8	20.9	20.8	20.5	20.4	20.3	21.4	23.3	25.4	27	28.4	29	28.8	28.4	28.3	28	26.9	25.5	24.6	24	23.8	23.3	22.9	24.3	
3	22.5	22.2	22	21.7	21.5	21.2	21.1	22.3	24.7	27.1	28.8	30.4	31.1	31.4	31.4	29.8	28.8	26.9	25.5	24.5	23.8	23.2	23	22.8	25.3	
4	22.5	22.4	21.7	21.5	21	20.8	21.2	21.8	22.9	25.2	26.7	27.2	27.4	28	27.7	27	26.8	26.3	25.2	24.6	24.2	23.8	23.5	22.9	24.3	
5	22.5	22.3	21.9	21.8	21.6	21.5	21.3	22.6	24.5	26.4	28.1	29.6	30.9	32	32.1	31.9	31.4	29.7	27.9	26.5	25.4	24.7	23.9	23.7	26	
6	23.2	22.5	21.8	20.9	20.3	20	19.7	21.5	22.5	22.8	22.8	22.6	22.8	22.9	22.7	22.3	21.9	21.7	21.3	20.8	20.2	19.7	19.4	19.3	21.5	
7	18.7	18.2	18.3	17.9	17.4	17.1	17.1	18.8	22.3	23.4	23.9	24.9	26.1	27.3	27.8	27.9	27.3	25.3	23.3	22.8	22.3	21.9	21.7	21	22.2	
8	20.5	20.1	19.1	18	17.3	16.7	16.9	17.5	18.8	20.4	21.1	21.5	21.4	20.6	20.7	20	19.4	18.6	18	17.5	17.3	17.1	16.8	16.5	18.8	
9	16	15.9	16	15.9	16.1	16.6	16.6	17.1	18.4	20.2	21.1	22.1	23.4	23.9	23.4	22.7	22.2	21.6	21.1	20.4	20	19.4	19.4	18.8	19.5	
10	18.2	17.9	17.9	17.7	18	18.5	19.1	20	21.7	23.5	24.3	24.3	24.6	24.4	24.2	23.8	23.3	22.8	22.5	21.9	21.6	21.4	21.7	21.9	21.5	
11	22.1	22.3	22.3	22.1	21.7	22.1	22.1	22.5	23	24	24	24	22.5	21.9	21.8	22.6	22.7	22.2	21.2	22.3	22.6	22.7	22.1	21.6	21.3	22.3
12	21	20.8	20.7	20.9	20.8	20	20	20.2	20.5	21.4	22	22.6	22.6	22.4	22	22.6	22.6	22	21.1	20.8	20.3	20.3	20.1	19.9	21.1	
13	18.9	18.1	17.6	17.3	16.6	16.1	15.9	16.9	19.7	21.4	22.6	24.1	25	24.9	25.3	24.8	24.4	23.3	21.8	21	20.6	20.5	20.4	20.4	20.7	
14	20.1	19.2	18.5	17.6	16.7	15.8	15.4	15.3	15	15.6	16.2	16.6	17.2	16.7	16.5	16.5	15.4	14.5	13.9	13.2	12.9	12.7	12.8	14.1	15.8	
15	14.4	14.6	14.4	14	13.8	14.2	15.7	16.5	17.8	19	19	18.7	18.8	18.5	18.5	18.8	18.8	18.5	17.2	16.4	17.3	17	17.3	17.7	17	
16	17.8	18.1	18.7	18.7	16.9	16.5	16.3	16.5	17	17.5	18.2	18.3	18.1	18.3	18.2	17.4	17.3	17.3	16.6	16.2	16	15.4	14.5	13.5	17.1	
17	12.9	12.5	12.2	11.8	11.4	10.9	10.8	12.4	15.6	18.1	19.2	19.8	20.7	20.2	20.9	20.8	20.2	18.9	17.7	17.5	16.3	15.3	14.6	13.3	16	
18	12	11.2	10.3	9.6	8.6	8.4	8.9	10.2	12.2	13.5	14.7	15.4	16.1	16.6	17	17.5	15.8	13.7	12.8	12.5	12.2	12.2	11.9	10.5	12.7	
19	10.8	11	10.7	11	10.7	10	9.8	12	14.7	16.3	17.4	18.5	19.1	19.9	20.5	20.8	20.2	18.4	17.2	16.6	16.3	15.9	15.6	14.5	15.3	
20	14.4	13.9	13.5	13.3	13.3	13.2	13.3	14.4	16.1	18.3	20.3	21.2	21.6	21.7	21.9	21.5	21.2	20.6	18.8	18.1	17.6	17.2	16.9	16.8	17.5	
21	16.9	17.3	17.3	16.8	16.1	15.5	15.2	15.1	14.5	14.9	13.5	12.8	12.4	12.4	12.8	12.7	12.9	12.8	12.9	12.9	12.9	12.6	12.4	12.5	14.1	
22	12.5	12.5	12.3	12.3	12.3	12.2	12.1	12.3	12.9	13.7	15.1	16.7	17.6	17.8	17.4	17	16.8	15.3	14.4	13.7	13	12.4	12.1	10.9	14	
23	10.2	9.8	9.7	9	8.9	8.6	8.9	10.2	13.8	16.2	17.6	18.9	20.1	21.2	21.6	21.1	19.1	17.1	15.9	14.8	14.4	13.8	13.4	13.3	14.5	
24	13.2	13.2	13.2	13.6	14.3	14.8	14.9	15.1	15.7	16.4	17	18.2	17.9	17.6	17.5	17.1	16.9	16.6	16.4	15.8	15	14.5	14.5	14.5	15.6	
25	14.1	14.2	14.4	15.1	15.3	15.7	15.8	16	16.6	17.4	17.4	17.5	17.7	17.4	17.3	17.6	17.7	17.5	17.9	18.3	18.5	18.5	18.9	19.2	16.9	
26	18.9	19.4	19.2	18.5	17.7	17	15.9	14.6	15.2	16.8	18.3	20.1	21.6	22.5	22.2	21.7	20.4	19.3	18.1	17.2	16.7	16.3	16.2	16.2	18.3	
27	16.6	16.4	16.3	15.8	15.2	14.7	14.8	15.2	16.7	17.6	18.2	18.5	19	18.5	18.7	18	17.1	16.2	15.7	15.4	15	14.7	14.9	14.8	16.4	
28	15	15	15.2	15.4	15	15.1	15.4	15.6	15.4	15.8	16.2	16.9	17	15.5	15.2	15.5	15.6	15.9	16	15.9	15.7	15.5	14.7	14.6	15.5	
29	14.6	14.5	14.4	14.1	13.7	13.7	14	14.4	14.8	15.3	15.6	15.3	14.7	14.7	14.8	14.9	14.9	15	15.3	15.7	15.8	15.7	15.2	14.6	14.8	
30	14.5	13.7	12.9	12.7	12.4	12.4	12.6	12.6	12.8	12.8	12.6	11.9	11.4	11.1	11	10.9	10.7	10	8.9	8.1	7.7	7.1	6.7	6.6	11	
31	6.4	5.9	5.8	5.7	5.8	5.8	5.9	6.3	6.7	7.1	7.8	8.9	9.9	10.1	9.7	9.4	8.6	7.8	7.5	7.4	7.3	7.1	5.8	4.7	7.2	
Avg	16.8	16.6	16.3	16.1	15.7	15.5	15.6	16.3	17.7	18.9	19.7	20.4	20.8	20.9	20.9	20.7	20.1	19.3	18.5	17.9	17.6	17.2	16.9	16.6	18	
S D	4.2	4.2	4.2	4.2	4.1	4	4	4.1	4.3	4.6	4.9	5.1	5.3	5.6	5.6	5.5	5.4	5.1	4.8	4.7	4.6	4.6	4.7	4.8	4.4	
S/A	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.26	0.27	0.27	0.26	0.26	0.26	0.27	0.28	0.29	0.24	
Min	6.4	5.9	5.8	5.7	5.8	5.8	5.9	6.3	6.7	7.1	7.8	8.9	9.9	10.1	9.7	9.4	8.6	7.8	7.5	7.4	7.3	7.1	5.8	4.7	7.2	
Max	23.2	22.5	22.3	22.1	21.7	21.7	22.1	22.6	24.7	27.1	28.8	30.4	31.1	32	32.1	31.9	31.4	29.7	27.9	26.5	25.4	24.7	23.9	23.7	26	
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% 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.

Prepared by: Afshin M. Andreas, NREL

**Elizabeth City State University**  
**36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5**

**October 2002**

**Relative Humidity (Tower)**  
**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	104.5	104.9 ?	?	?	?	?	?	103.5 ?	96.7	82.4	70.4	60	58.8	56.4	56.4	59.8	65.7	71.2	81.6	87.5	88.2	91.2	95.1	97.5	80.6 ?
2	98.4	100.6	101.2	101.1	101.7	100.8	100.2	96.2	90.5	82.7	76	71.1	69.2	72.8	75.2	75.6	77	82.7	88.7	93.5	97.9	98.1	100.2	102.1	89.7
3	102.5	102.5	103.3	103.6	104.3	104.7	105 ?	102.5	94.7	84.1	73.3	64.1	60	58.8	58.7	70.8	75.2	83	88.2	92.8	96.7	99.1	100.4	101.7	88.8
4	103	103.6	104.3	104.7 ?	?	?	104.2 ?	105 ?	102 ?	95.8	90.1	88.1	83.1	77.7	81.8	87.1	88.6	85.2	91.1	94.9	96	97.4	98.4	100	94.6 ?
5	100.8	100.6	100.8	101.1	102.3	103.4	104.2	101	96.1	88	78.9	71.1	63.7	59.1	57	59.4	60.9	67.2	76.3	85.2	92.6	97.2	100	102	86.2
6	89	82.3	79.8	79.8	81.4	84.5	89	89.4	87.5	87.2	86.6	88.2	87.1	87	87.7	89.3	91	91.8	93.3	94.9	96.9	98.6	99.9	100.7	89.3
7	102.2	103.3	104	104.8	?	?	?	103.6 ?	96.6	89.3	88.6	82.8	76.6	70.1	68.5	65.2	67.7	82.2	94.4	96.5	97.4	96.9	87.2	78.6	88.4 ?
8	79.8	80.8	75.1	68.1	71.4	72.7	72.3	79.9	82.1	76	70.2	65.8	66.8	72	70.1	71.6	72.7	76	77.7	80.6	82.1	81.8	81.4	85.1	75.5
9	87.9	88.7	89.1	91.1	92.9	93.8	94.6	95.8	93.9	89.7	86.7	83.8	78.5	75.9	78.6	82.4	86.1	91.6	95.6	98.6	99.7	101.8	102.8	103.6	91
10	104.4	104.9	?	?	?	105 ?	104.9	103.8	98.5	89.8	80.3	80.4	79	80.1	82.9	86.9	91.2	94.9	96.3	99.5	101.7	102.5	101.2	100	94.7 ?
11	98	96.6	96.8	97.9	99.3	99.7	98.7	98.3	97.3	93.7	93.6	101.8	104.6 ?	?	?	104.8 ?	104.7 ?	104.8 ?	?	105 ?	104.9	104.9	105 ?	?	100.5 ?
12	?	?	?	?	104.6	104.9 ?	?	104.5 ?	103.8	101.4	98.4	95.7	95	95.5	96.2	92.7	92.5	94.9	98.9	100.2	101.2	101.9	102.5	102	99.3 ?
13	104.4	?	?	?	?	?	?	?	96.8	88.4	83.4	76.2	73.2	74.2	73.3	76.9	81.4	88.3	95.7	97.5	99	99.7	100.6	100.9	88.8 ?
14	97.9	86.5	82	81	80.6	77.1	78.4	72.7	63.1	63.5	68.3	69.7	65.9	64.8	61.9	62	67.3	72.8	78.3	82.8	86.7	90.3	92.1	85.3	76.3
15	85.5	86.7	91.2	93.3	95.9	95.4	90.4	88.7	85.4	82.1	84.3	90.7	94.2	98.6	100.6	100.7	101.4	98.1	98.4	102.4	102.1	100.1	100.9	98.7	94.4
16	100.8	104.2	104.9	?	?	?	?	104.6 ?	102.3	99.2	96.8	97.9	99.2	98.9	98.8	100.4	100.5	97.8	99.4	100	100.1	100.9	102.7	104.6	100.7 ?
17	105 ?	?	?	?	?	?	?	?	98.6 ?	83	69.7	63.5	62.7	63.5	63.4	65.7	72.5	81.6	89.3	86.5	86.5	82.8	78.5	83.9	78.6 ?
18	86.8	83.2	86	93.6	99	99.2	91.8	80.9	64.9	57.4	49.7	42.7	39.1	39.9	40.1	41.2	50.6	61.7	65.8	68.6	71.7	73.4	75.1	83.5	68.6
19	82.1	81.9	83.7	84	87	92.6	96	90.3	81.2	64.3	58.8	55.4	54.7	51.4	50	50.3	54.7	63.9	76.8	88.7	94.1	96	94.3	97	76.2
20	96.4	98.8	98.3	96.3	94.9	95	94.7	91	84.7	77.7	74.4	74.6	74.3	76	76.9	79.6	81.5	84.6	92.5	92.5	94	96	96.3	97.4	88.3
21	98.7	99.3	102.8	104.8	105 ?	?	?	104.9 ?	104.9	104.4 ?	103.6	101.9	103	101	94.2	90.7	89.9	91.3	92.9	93.5	94	95.5	96	94.9	98.5 ?
22	93.9	94.3	96.7	97.1	97.7	100.8	102.3	104.1	103.9	103	100	91	80.1	76.1	76.8	78.2	79.1	85.6	91.1	93.4	95.7	97	97.2	101.1	93.2
23	103.1	104.3	103.8	104.7	?	?	?	103.6 ?	94.9	84.6	75.9	67.9	61.2	56	54.7	58.2	72.1	81.7	89.8	96.5	98.3	101.3	102.5	102	86.5 ?
24	100.7	100.3	102	102.4	101.3	98.6	96.7	95.7	92	85.7	80.5	73.2	76.8	77.3	78.9	80.1	84.1	87.4	88.5	93.2	99.4	103.5	103.9	104.5	91.9
25	104.5	103.9	103.6	102.3	100.3	97.4	96.8	96	94.6	93.2	93.3	91.5	91.1	92.5	91.3	94.9	96	97.6	98.9	99.5	101	102.3	102.5	102	97.8
26	103.2	104.9 ?	?	?	?	?	?	104.5 ?	101.7	96.4	89.6	82.2	76.4	71.9	73.3	75.2	82.8	88.7	96.2	100.1	102.1	103.2	104.3	103.3	92.6 ?
27	97.5	96	94.4	95.6	95.1	95.3	92.5	92.6	81.6	66.6	60.3	60.2	58.6	60.9	61.2	64.9	70.2	76.7	81	83.7	88.3	91.1	92.3	93.5	81.2
28	93.4	96.6	95.2	94.5	100.9	100.2	100	99.6	101.1	99.8	98.4	93.2	92.6	102.5	104.9 ?	?	?	?	?	?	104.7 ?	104.6	104.8	104.9	99.6 ?
29	104.5	104.1	103.1	103.9	104.2	102.6	99.8	96.5	94.4	91.8	91.5	95.8	102.7	104.4	104.6	?	104.8	104.8 ?	?	?	?	?	?	?	100.8 ?
30	?	?	104.8	104.8	104.9 ?	?	?	?	?	?	?	104.9 ?	104.8	104.7	104.4	104.1	103.8	104	104.3	104	103.7	104.3	103.9	103.7	104.3 ?
31	103.1	103.7	103.4	102.9	102.8	102.7	102.7	101.7	100.2	99.2	96.8	91.1	85.1	83.8	84.9	86.9	89.3	90.4	90.5	89.9	91.1	92.4	98.6	102.6	95.7
Avg	97.6	96.9	96.4	96.4	96.7	96.5	96	96.8	92.9	86.7	83	79.9	78	76.8	76.9	77.8	81.8	86.1	89.7	93.2	95.6	96.9	97.4	97.8	90.1 ?
S D	7.3	8.3	8.9	9.6	9.1	8.7	8.4	8.5	10.4	12	13.8	15.5	16.8	17.3	17.6	16.4	14.7	11.5	8.8	8	7.3	7.3	7.7	7.4	8.9
S/A	0.08	0.09	0.09	0.1	0.09	0.09	0.09	0.09	0.11	0.14	0.17	0.19	0.22	0.23	0.23	0.21	0.18	0.13	0.1	0.09	0.08	0.08	0.08	0.08	0.1
Min	79.8	80.8	75.1	68.1	71.4	72.7	72.3	72.7	63.1	57.4	49.7	42.7	39.1	39.9	40.1	41.2	50.6	61.7	65.8	68.6	71.7	73.4	75.1	78.6	68.6
Max	105	104.9	104.9	104.8	105	105	105	105	104.9	104.4	104.9	104.8	104.7	104.4	104.9	104.8	104.8	104.8	104.3	105	104.9	104.9	105	104.9	104.3
n	338	316	300	283	250	234	238	283	352	356	364	372	365	360	351	340	355	349	336	338	353	360	357	348	7902

Data Recovery: 0.0% missing; 11.5% 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

**October 2002**

**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	17.1	17	16.8	16.5	16.1	15.8	15.7	16.8	20.3	24.3	27.8	30.1	31.4	31.8	32.5	32.6	31.6	28.4	25.6	23.8	22.9	22.1	21.1	20.3	23.3
2	19.9	19.9	19.9	20	20	19.8	19.7	20.5	22.9	25.9	28.9	31.4	33.1	32.7	32	31.3	30.4	28.9	26.9	25.1	24	23.4	22.9	22.5	25.1
3	22.2	21.9	21.7	21.5	21.3	21	20.8	21.6	23.8	27.3	30.9	33.6	34.9	35.3	35.5	34.7	32.9	30.2	27.2	25	23.5	22.6	21.9	21.6	26.4
4	21.5	21.3	21	20.7	20.6	20.3	20.2	20.9	22	24.7	28	29.8	30.1	30.2	30.7	30.2	28.8	27.6	26	24.6	24	23.4	23	22.5	24.7
5	22.1	21.8	21.4	21.1	21	21	21	21.4	23.4	26.4	29.1	31.5	33.4	34.6	35.2	35.1	34.6	32.9	29.7	27.2	25.8	24.6	23.7	23.1	26.7
6	23	22.6	22	21.3	20.5	19.9	19.6	20.1	22	23.6	24.2	24.4	24.6	25	24.9	24.5	23.6	22.8	22.1	21.4	20.3	19.2	18.5	18.2	22
7	18	17.7	17.5	17.5	17.2	16.9	16.7	17.5	20.3	23.6	25.4	26.9	28.4	29.8	30.9	31.4	31	29.2	25.9	23.8	22.8	22	21.5	20.9	23
8	20.2	19.7	19.2	18.6	17.4	16.8	16.5	17	18.5	20.4	22.1	23.5	24.4	23.5	23	22.8	21.5	20.2	18.9	17.7	16.9	16.6	16.4	15.9	19.5
9	15.7	15.5	15.7	15.6	15.5	15.8	16.1	16.5	17.4	19.4	21.3	22.6	24.9	26.9	26.9	25.5	24.1	23	21.7	20.4	19.8	19.1	18.8	18.6	19.9
10	18	17.6	17.4	17.4	17.4	17.7	18.2	18.9	20	22.1	24.8	25.4	25.9	26.1	25.7	25.3	24.6	23.6	22.9	22.3	21.7	21.2	21	21	21.5
11	21	21.4	21.7	21.7	21.5	21.3	21.4	21.7	22.4	23.4	24.5	24	22.9	22.3	22.3	22.6	22.6	22.1	21.9	22.3	22.5	22.4	22.1	21.8	22.2
12	21.5	21.3	21.1	21	20.9	20.7	20.3	20.2	20.4	20.9	22.1	23.3	23.8	24.1	23.7	23.5	23.6	23.3	21.9	21	20.5	20.3	20.1	19.9	21.6
13	19.4	18.7	17.9	17.4	16.9	16.4	16	16.5	18.8	21.8	24.6	26.9	28.3	28.5	28	27.9	26.7	25.3	23.8	22.4	21.2	20.5	20.3	20.3	21.8
14	20.3	20	19.4	18.7	17.7	16.8	16	15.8	15.9	16.3	17.4	18.5	19.6	20.1	19.2	18.9	18.1	16	14.1	13	12.3	12	11.9	12.1	16.7
15	12.7	13.2	13.4	13.3	13.2	13.2	13.8	14.9	16.3	18.2	19.4	19.5	19	18.6	18.3	18.3	18.4	18.3	17.6	16.7	16.5	16.6	16.4	16.6	16.4
16	16.8	17.2	17.8	18.5	18.3	17.4	16.9	16.7	16.9	17.8	19.4	20.3	20.3	20	19.8	19.4	18.6	18	17.6	16.9	16.4	15.9	14.6	13.5	17.7
17	12.8	12.1	11.8	11.6	11.4	11	10.2	11.1	14.3	17.8	20.9	23.1	23.9	23.8	23.3	23.1	22.4	20.8	18.2	17.4	16.8	15.6	14.9	14	16.8
18	12.1	10.6	9.6	8.5	7.7	6.8	6.5	7.8	10.8	13.6	15.9	17.6	18.5	19	19.5	19.9	19.5	16.7	13.4	11.6	10.4	9.8	9.5	8.9	12.7
19	8	7.8	7.9	7.9	8	7.7	7.2	8.8	12.5	16	18.5	20.2	21.4	21.8	22.3	22.5	22.2	20.6	17.9	16.3	15.5	15.1	14.7	14.2	14.8
20	13.6	13.1	12.7	12.3	12.1	12	12.1	12.7	14.5	17	19.8	21.8	23.2	23.7	23.8	23.2	22.4	21.5	20.2	19	18.2	17.6	17.1	16.8	17.5
21	16.7	16.8	17.1	17.1	16.8	16.3	15.8	15.5	15.2	15	14.8	13.8	13.2	12.7	12.7	13	13.1	13.1	13	13	13	12.8	12.3	12.2	14.4
22	12.2	12.1	12.1	11.9	12	12	11.9	12	12.3	13	13.9	16	18.1	19.3	19.4	18.8	18.6	17.1	14.4	12.9	12	11.2	10.5	9.9	13.9
23	9.1	8.6	8.4	8.1	7.6	7.3	7.3	8.5	11.5	15.3	18.8	21.4	23	23.7	24.4	24.5	23.3	20.2	16.7	14.2	13	12.4	12.1	11.9	14.6
24	11.9	11.9	11.9	12.1	12.5	13	13.4	13.8	14.5	15.4	16.6	18.6	20.3	19.9	19.5	18.9	18.1	17.4	16.9	16.4	15.8	15	14.6	14.5	15.5
25	14.4	14.2	14.1	14.3	14.5	15	15.3	15.7	16.2	17.3	17.9	18.2	18.7	18.7	18.2	17.9	18	17.9	17.8	17.9	18.1	18.3	18.4	18.6	16.9
26	18.8	19	19.2	19.1	18.6	18	17.3	16.2	15.5	16.6	18.8	20.7	22.6	23.9	24.2	23.5	22	20.2	18.6	17.2	16.3	15.6	15.3	15.1	18.8
27	15.2	15.3	15.7	15.7	14.9	13.9	13.9	14.2	15.8	18.1	20	21.3	22.4	22.5	21.8	20.9	19.2	17.6	16.1	15.3	14.7	14	13.8	13.9	16.9
28	13.9	14.3	14.6	14.8	14.9	14.8	14.9	15.1	15.1	15.2	15.5	16.2	17	16.7	15.9	15.7	15.7	15.8	15.9	16	15.9	15.8	15.4	15	15.4
29	14.7	14.6	14.4	14.2	14	13.7	13.6	13.9	14.4	15.1	15.5	15.5	15.1	14.9	15	15	15.1	15	15.1	15.3	15.6	15.8	15.8	15.4	14.9
30	15	14.7	13.9	13.3	12.9	12.7	12.6	12.7	12.9	13	13.1	13	12.6	12.2	11.8	11.5	11.3	11	10.3	9.4	8.7	8.1	7.5	7.1	11.7
31	6.9	6.7	6.2	6	6	6	6	6.2	6.6	7.1	7.7	8.6	10.1	11.4	11.4	11	10.3	9.2	8.1	7.6	7.5	7.3	5.9	4.2	7.7
Avg	16.3	16.1	15.9	15.7	15.5	15.2	15.1	15.5	16.9	18.8	20.6	21.9	22.7	23	23	22.7	22	20.8	19.2	18.2	17.5	17	16.5	16.1	18.4
S D	4.3	4.4	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.7	5.4	5.8	6.1	6.3	6.4	6.4	6.1	5.7	5.2	4.9	4.7	4.7	4.7	4.8	4.6
S/A	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.27	0.25	0.25	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.28	0.3	0.25
Min	6.9	6.7	6.2	6	6	6	6	6.2	6.6	7.1	7.7	8.6	10.1	11.4	11.4	11	10.3	9.2	8.1	7.6	7.5	7.3	5.9	4.2	7.7
Max	23	22.6	22	21.7	21.5	21.3	21.4	21.7	23.8	27.3	30.9	33.6	34.9	35.3	35.5	35.1	34.6	32.9	29.7	27.2	25.8	24.6	23.7	23.1	26.7
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% 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.

**Elizabeth City State University**  
**36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5**

**October 2002**

**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	0.1	0	0	0	0	0.1	0.1	0.1	0.4	1	0.9	1.2	1.4	0.8	1.2	1.5	1.7	1	2	1.9	1.2	0.8	0.6	1	0.8
2	1.1	1.3	1.5	1.2	1.3	1.7	1.6	1.8	1.7	2.1	1.9	1.7	1.3	1.7	1.9	2	1.5	1.1	0.9	1	1.1	1.1	1	1.1	1.4
3	1.5	1.3	1.6	1.6	1.2	0.7	1	1.3	1.6	1.2	1.1	1.6	1.4	1.8	1.8	2.6	2	1.8	0.8	0.6	0.6	0.2	0.2	0.5	1.3
4	0.3	0	0	0.4	0.1	0.4	1.4	1.9	1.9	2.3	2	2.4	3.4	4.7	4.2	4.2	3.7	2.5	1	1.8	2.3	2.2	1.6	1.5	1.9
5	1.8	1.9	1.2	1.5	1.5	1.5	0.9	1.8	2.7	2.9	3	2.3	2.2	2.1	2.4	1.9	1.6	0.6	0.3	0	0	0.3	0.5	0.5	1.5
6	4.3	3.7	3.5	3.1	2.8	2.8	2	3.9	4	4.5	4.1	3.6	3.4	3.3	3	3	2.5	1.7	1.7	1.5	1.2	0.8	0.7	1.1	2.8
7	0.5	0.9	0.6	0.4	0	0	0	0	0.1	1	1.4	1.1	1.8	1.2	1.5	1.1	0.9	1.5	2.2	1.8	0.8	1.9	2.7	2.9	1.1
8	2.8	3.5	3.5	3.1	2.8	3	2.9	3.4	3.4	4.7	5.2	5	4.4	4.1	4.4	4.4	3.6	3.2	2.6	1.9	2.2	2.3	1.5	1.5	3.3
9	1	1.9	1.6	1.9	1.9	1.8	2.1	1.9	1.8	2.1	2.3	2.8	2	1.5	1.7	1.8	1.7	1.3	0.6	0.8	0.8	0.9	0.5	0.4	1.5
10	0.2	0.5	0.5	0.4	0.5	0.3	0.2	0.2	1.3	2.8	3.9	3.7	3.7	4	4	2.8	2	1.6	1.7	1.6	1.2	1.2	1.6	1.3	1.7
11	1.8	1.9	1.3	1.1	1.1	1.8	1.9	2.6	2.6	3.1	3.6	1.8	1.8	1.2	2.2	3.1	2.4	2.6	3	4	1.6	0.8	1.4	0.4	2.1
12	0.7	1	1.8	1.8	2.3	2.1	2	2.4	2.4	2.4	2.3	2.5	2.3	2.7	2.1	1.7	1	1	0.9	1	0.6	0.6	0.2	0.1	1.6
13	0.3	0.3	0.4	0.1	0.2	0.1	0.6	0.8	1.6	1.8	1.5	1.4	1.7	1.3	1	1.1	1.1	0.9	1.5	0.9	0.5	0.1	0.1	0.9	0.8
14	2.7	4.3	4.2	4.5	4.7	4.2	3.3	4.7	5	4.6	4.7	5.3	4.9	5.3	4.7	4	3.8	2.6	1.9	1.9	1.8	1.4	0.9	2.2	3.7
15	2	1.9	1.4	2	1.7	1.6	2.3	2.5	3.7	4.5	4.2	3.3	3.2	3.4	4.1	3.9	4.4	4.9	5	4.8	5.3	5.4	4.5	3.6	3.5
16	4.4	3.7	2.4	1.6	4.3	3.7	2.8	2.3	1.7	1.2	1.5	2.4	2.4	2.8	2.2	2	1	1.3	1.8	1	1.1	0.4	0.1	0.6	2
17	0.1	0.5	0.3	0.6	0.3	0	0	0.1	0.3	1.1	1.1	1.2	1.5	2.2	2.2	2.5	1.4	0.4	0.1	1.9	1.9	1.8	2	1.3	1
18	1.2	2	1.6	1.3	0.6	0.9	1	1.3	2.6	2.6	2.8	3.2	2.5	1.8	1.5	0.8	1.8	1.8	1.3	0.9	1	1.1	1	0.5	1.5
19	1	1.1	0.9	1.3	0.6	0.2	0.4	1.2	1.7	2.8	3.2	3.2	3.4	4	3.6	2.9	2.3	2	1.7	2.2	2.2	2.2	2.1	1.5	2
20	1.7	1.8	1.8	1.8	1.5	1.2	1.5	1.4	1.7	2.9	2.6	2.4	3.1	2.5	1.8	1.6	1.5	0.8	1.4	1.3	1.1	1.4	1.5	1.4	1.7
21	1.5	1.4	1.7	2.3	3.1	3	2.6	2.7	2.6	2.7	3.4	3.1	3.7	3.3	2.7	1.6	1.2	1.8	1.8	1.7	1.9	1	1.2	1.6	2.2
22	2.1	1.8	1.1	0.9	1	0.8	1.1	0.9	0.8	0.7	1.2	1.8	2.2	1.8	1.7	2.3	1.9	0.8	0.4	0.6	0.6	0.6	0.2	0	1.1
23	0.1	0.2	0.1	0.1	0	0.1	0	0.4	0.5	1	0.9	1	1.2	0.7	1	1.3	2.1	1.4	0.4	0.4	0.3	0.4	0.1	0.7	0.6
24	1	0.9	0.9	0.9	1.8	2.5	2.5	2.1	2.9	3.5	4.2	5.2	5.5	5.6	4.5	3.7	3.1	2.9	2.9	3	2.2	2.2	2.3	2.5	2.9
25	2.5	2.2	2	1.8	2.7	2.7	2.7	2.4	2.7	3.7	4.1	5.1	4.8	3.8	2.4	4.1	4.3	2.9	2.9	3	2.5	1.6	0.7	0.9	2.9
26	1.4	1.8	1.3	1.9	2.2	2.1	1.9	2	1.2	1.7	1.9	1.6	1.9	1.3	0.8	1.1	1.1	0.5	0.2	0.1	0	0.1	0	0.2	1.2
27	0.7	1.1	1.3	1.3	1.1	1.2	1.4	1.3	2.1	3.1	3	2.3	1.9	1.8	1.6	1.9	1.8	1.1	0.4	0.3	0.2	0.2	0.3	0.2	1.3
28	0	0	0.2	0.4	0.5	1.3	1.3	0.6	1	1.7	2.2	2.6	1.9	2	2.7	2.7	2.7	1.6	2.1	2.3	2.8	2.7	3.1	2.4	1.7
29	2.6	2.4	2.2	2	2.9	1.8	1.9	2.5	2.7	2.7	3	3.1	1.9	1.4	1.9	2.7	3.6	3.2	2.2	1.4	0.3	1	1.3	1.1	2.2
30	2	2.3	2.9	2	2.4	2.2	0.6	0.8	1.3	1.9	1.5	1.8	2.4	2.2	2.1	2.1	2.2	2.8	3.1	2.9	2.9	2.7	2.6	2.6	2.2
31	2.5	3.1	3.4	3.3	3.2	2.9	2.5	2.6	2.8	2.2	2.8	2.5	2.8	2.7	2.7	3	2.7	2.3	1.7	1.9	0.9	0.8	0.4	0.3	2.3
Avg	1.5	1.6	1.5	1.5	1.6	1.6	1.5	1.7	2	2.5	2.6	2.7	2.7	2.6	2.4	2.4	2.2	1.8	1.6	1.6	1.4	1.3	1.2	1.2	1.9
SD	1.2	1.1	1.1	1	1.3	1.2	1	1.1	1.1	1.1	1.2	1.2	1.1	1.3	1.1	1	1	1	1.1	1.1	1.1	1.1	1.1	0.9	0.8
S/A	0.78	0.7	0.72	0.69	0.78	0.74	0.64	0.65	0.56	0.46	0.46	0.43	0.51	0.45	0.45	0.42	0.46	0.55	0.67	0.67	0.79	0.84	0.89	0.76	0.42
Min	0	0	0	0	0	0	0	0	0.1	0.7	0.9	1	1.2	0.7	0.8	0.8	0.9	0.4	0.1	0	0	0.1	0	0	0.6
Max	4.4	4.3	4.2	4.5	4.7	4.2	3.3	4.7	5	4.7	5.2	5.3	5.5	5.6	4.7	4.4	4.4	4.9	5	4.8	5.3	5.4	4.5	3.6	3.7
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% 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**  
**36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5**

**October 2002**

**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	10	346	337	304	292	310	350	334	279	288	186	130	242	97	323	145	183	145	118	131	145	150	142	179	158
2	207	220	217	227	231	235	232	234	257	272	262	250	218	207	188	178	179	176	145	143	179	195	208	219	217
3	227	226	236	225	231	226	227	239	264	293	304	316	320	350	7	73	79	87	81	83	86	100	111	103	288
4	111	111	111	359	9	44	67	66	82	99	88	90	107	119	112	117	126	153	171	161	159	160	218	217	120
5	219	218	207	210	225	228	206	231	249	261	270	265	280	282	294	299	292	296	5	17	323	339	338	358	259
6	5	20	13	11	13	8	9	49	50	59	58	53	46	49	60	56	52	36	0	4	358	29	42	22	34
7	340	343	21	15	293	292	292	297	176	289	296	286	312	294	294	10	49	67	73	75	29	7	23	14	4
8	16	17	23	8	5	355	358	6	15	45	54	49	52	59	49	52	50	52	50	50	54	51	44	355	36
9	348	347	343	351	357	354	352	353	0	28	42	53	73	63	45	64	53	47	34	353	348	7	358	321	20
10	305	325	352	330	358	357	11	49	77	111	111	123	112	116	123	115	107	82	72	69	62	71	82	86	100
11	99	100	87	81	64	81	82	89	87	87	100	84	69	52	105	118	112	79	104	139	183	247	272	279	99
12	308	306	305	306	293	286	302	309	319	330	332	336	338	335	346	348	326	311	311	308	319	346	4	308	320
13	272	275	302	284	279	260	284	294	335	6	299	316	314	306	314	311	307	307	69	58	52	9	299	340	326
14	6	357	351	349	353	351	352	15	12	13	22	39	33	35	42	41	40	44	10	354	357	346	6	45	16
15	47	43	4	10	20	42	45	47	62	69	68	58	66	70	74	73	75	79	76	73	76	77	64	51	64
16	50	40	29	298	275	276	279	276	286	298	265	256	247	268	286	301	306	312	315	311	309	313	296	289	299
17	284	292	293	291	290	0	0	327	72	77	102	165	169	218	222	217	220	225	294	306	311	312	308	304	255
18	304	310	310	307	292	322	329	339	339	354	4	346	357	9	5	14	71	94	114	119	130	132	151	180	358
19	176	169	172	168	195	212	216	228	220	228	227	218	216	231	225	221	217	217	207	214	211	222	234	220	217
20	227	229	234	229	228	226	227	232	251	268	256	235	247	248	225	222	276	324	53	52	39	8	10	22	251
21	44	42	56	41	23	49	53	22	29	28	359	1	1	11	1	354	345	352	357	357	354	352	331	344	15
22	357	16	13	0	354	337	338	358	341	342	23	41	28	30	30	61	61	41	8	13	357	356	353	0	19
23	320	319	344	315	332	328	323	313	324	318	356	265	141	56	44	74	110	100	82	57	25	34	25	12	53
24	9	13	31	28	54	58	55	63	74	67	66	68	74	80	79	69	72	80	79	82	54	58	60	53	67
25	61	52	60	57	65	64	66	64	61	71	70	74	75	68	62	76	76	71	79	79	85	91	125	171	72
26	241	239	262	280	289	304	298	299	303	299	292	298	310	317	300	309	298	288	90	193	0	74	0	44	291
27	39	17	17	14	31	359	31	12	31	40	45	59	71	89	109	119	130	137	125	123	118	109	127	133	59
28	141	94	123	95	143	140	110	62	51	66	82	85	71	23	58	68	61	42	56	27	11	26	39	37	55
29	38	43	39	36	52	50	53	45	57	58	73	77	59	37	23	56	64	71	78	74	61	291	295	308	52
30	323	349	2	8	352	3	351	328	338	326	314	323	319	309	313	310	307	305	305	303	305	304	308	302	322
31	304	303	308	309	307	311	310	318	322	325	332	330	333	325	338	337	334	336	341	314	301	293	275	277	320
Avg	8	0	356	346	345	352	2	5	13	26	35	41	38	38	43	64	67	61	60	58	39	31	16	9	23
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% 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.

Prepared by: Afshin M. Andreas, NREL



**Elizabeth City State University**  
**36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5**

**October 2002**

**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	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	1.1	1.9	2.1	2.4	2.6	1.9	2.3	2.6	3	1.8	2.8	2.7	1.9	1.4	0.9	1.4	1.5
2	1.9	1.8	2.2	1.7	1.9	2.3	2.2	2.6	2.7	3.4	3.4	3.4	2.5	2.8	3	3.2	2.6	2	1.5	1.4	2	2	1.7	1.7	2.3
3	2.3	1.8	2.3	2.2	1.7	1.1	1.5	2	2.6	2.5	2.2	3.2	2.9	3.3	3.5	3.7	3	2.8	1.3	1.1	1.2	0.6	0.6	0.9	2.1
4	0.6	0.1	0.1	0.8	0.4	0.8	2	2.9	2.9	3.6	3.1	3.8	5.1	7	6.3	6.5	5.2	3.6	1.8	2.8	3.6	3.4	2.6	2.3	3
5	2.6	2.7	1.9	2.3	2.2	2.4	1.6	2.8	4.1	4.8	5.1	4.3	4.3	4	4.5	3.6	3.1	1.3	0.9	0.1	0.1	0.6	0.8	1.1	2.6
6	7	5.8	5.8	5	4.8	4.3	3.2	6.3	6.5	6.8	6.5	5.7	5.5	5.2	4.6	4.6	4.1	3	2.9	2.5	2	1.6	1.3	1.6	4.4
7	1	1.5	1.1	0.9	0	0.2	0.2	0.2	0.5	2.2	2.8	2.3	3.4	2.6	3	2.1	1.6	2.4	3.7	2.6	1.4	3.3	4.5	4.6	2
8	4.5	6.1	5.8	4.9	4.6	5.1	4.8	5.5	5.5	7.8	8.3	7.6	7	6.4	6.8	6.6	5.8	5	4.1	3.2	3.3	3.6	2.5	2.5	5.3
9	2	2.9	2.8	2.9	3	3	3.3	3	3	3.6	3.9	4.1	3.2	2.6	2.8	2.9	2.7	2.3	1.3	1.3	1.4	1.4	1.1	0.8	2.6
10	0.6	1	0.9	0.7	0.9	0.8	0.4	0.6	2.1	4.4	6.1	5.8	5.7	6	5.9	4.2	3	2.4	2.5	2.5	2	1.8	2.5	2.2	2.7
11	2.8	3	2.3	1.6	1.6	2.5	2.7	3.9	4.2	4.9	5.8	3	3.2	2.4	3.6	5.4	4.3	4.1	4.7	5.9	3.5	2	2.7	1.2	3.4
12	2.1	2.8	3.9	3.9	4.5	4.5	4.2	5.4	4.9	5.1	4.6	4.8	4.3	5.1	4.3	3.4	2.5	2	2.1	2.7	1.8	1.8	0.7	0.6	3.4
13	1	1.1	1.5	0.8	1	0.3	1.8	2.3	3	3.2	3	2.9	3.7	2.7	2.3	2.3	2.2	2	2.5	1.7	1	0.3	0.5	1.9	1.9
14	4.6	7.1	6.7	7.8	7.6	6.7	5.6	8.2	7.8	7.4	7.7	7.9	8.3	8.2	7.5	6.9	6.2	4.2	3	3	2.8	2.4	1.6	3.4	6
15	3.2	3	2.3	3.2	2.8	2.7	3.7	4.2	5.7	7.1	6.5	5.6	5.1	5.6	6.5	6.1	6.8	7	8	7.2	8.5	8.5	7.7	6.2	5.6
16	7.3	6.7	4.4	3.4	6.8	6.3	5.1	4.6	3.9	3.2	3.4	3.7	3.7	4.7	4.2	4	2.4	3.2	4	2.9	3.1	1.6	0.6	1.4	3.9
17	0.4	1.4	1.2	1.8	1.1	0	0	0.3	0.9	2.1	2.4	2.8	3.3	3.6	4.1	4.1	2.5	0.8	0.4	4.1	4.3	3.8	4.3	3.1	2.2
18	2.6	3.8	3.4	3.1	1.4	2	2.7	3.1	4.8	4.8	4.6	5.8	4.6	3.7	2.9	2	2.9	2.8	2.1	1.5	1.5	1.5	1.5	0.9	2.9
19	1.4	1.6	1.3	1.7	1.1	0.5	0.8	1.9	3	4.3	5.1	5.2	5.3	6.2	6	4.7	4	3	2.8	3.4	3.4	3.3	3.1	2.3	3.1
20	2.6	2.5	2.5	2.9	2.5	1.9	2.2	2.2	2.9	4.7	4.7	4	4.6	3.9	3	2.7	2.4	1.5	2.3	2.3	2	2.4	2.4	2.4	2.8
21	2.4	2.5	2.9	3.9	5.5	5	4.3	4.5	4.6	5	5.8	5.2	6.3	5.7	4.8	3.3	2.7	3.3	3.4	3.3	3.5	2.3	2.6	3.2	4
22	3.8	3.3	2.3	2.1	2.1	1.9	2.4	2	1.9	1.9	2.4	3.2	4	3.3	3.1	3.6	3.1	1.5	0.9	1.3	1.1	1.1	0.5	0	2.2
23	0.3	0.6	0.2	0.2	0.1	0.3	0.2	1	1.3	2.5	2.3	1.9	2.3	1.7	2.1	2.4	3.2	2	0.6	0.8	0.6	0.5	0.3	1.1	1.2
24	1.8	1.9	1.7	1.7	3	4	3.9	3.5	4.5	5.6	6.5	8	8.1	8.3	7	5.9	5	4.7	4.8	4.4	3.6	3.7	4.1	4.1	4.6
25	4.1	3.4	3.7	3.3	4.5	4.8	4.4	4.1	4.4	6.2	6.7	7.8	7.4	6.3	4.2	6.4	6.6	4.7	4.4	5	3.8	2.6	1.3	1.9	4.7
26	2.4	3	2	3.5	4.6	4.1	4.1	4	2.8	3.7	3.8	3.4	3.9	3.1	2.3	2	2	1.1	0.4	0.2	0	0.2	0	0.5	2.4
27	1.3	2.2	2.2	2.3	1.7	1.8	2.3	2.4	4	5.1	5	4.1	3.3	2.7	2.6	3.1	2.9	1.8	0.9	0.8	0.6	0.6	0.6	0.4	2.3
28	0.2	0.1	0.5	0.7	0.9	2.1	2.1	1.4	1.7	2.7	3.5	4.1	3.4	3.4	4.3	4.5	4.3	3.3	3.6	4	4.9	5.1	5.5	4.8	3
29	4.6	4.2	4.2	4.2	5.3	3.7	3.4	4.4	5	4.6	5.1	4.9	3.7	2.8	3.5	4.7	5.8	4.9	4.1	2.6	0.9	2.1	3.2	2.6	3.9
30	4.1	4.5	5	4.1	4.2	3.6	1.6	2.4	2.8	3.9	3.5	3.9	4.8	4.4	4.4	4.3	4.4	5.6	6.4	5.8	6.1	5.6	5.3	5.1	4.4
31	5.4	6.3	6.3	6.3	6.3	5.7	5.1	5.1	5.6	4.9	5.4	5.3	5.4	5.4	5	5.2	4.9	4.2	3.7	4	2.1	1.8	0.8	0.8	4.6
Avg	2.6	2.9	2.7	2.7	2.9	2.7	2.7	3.1	3.6	4.3	4.5	4.5	4.6	4.4	4.2	4.1	3.7	3	2.8	2.8	2.5	2.4	2.2	2.2	3.3
SD	1.9	1.9	1.8	1.8	2.1	1.9	1.6	1.9	1.7	1.6	1.7	1.7	1.6	1.8	1.5	1.5	1.4	1.5	1.8	1.7	1.8	1.8	1.8	1.5	1.2
S/A	0.72	0.68	0.69	0.66	0.74	0.71	0.61	0.59	0.48	0.37	0.37	0.37	0.35	0.41	0.37	0.36	0.39	0.48	0.62	0.6	0.72	0.75	0.84	0.71	0.38
Min	0.2	0.1	0.1	0.2	0	0	0	0.2	0.5	1.9	2.1	1.9	2.3	1.7	2.1	2	1.6	0.8	0.4	0.1	0	0.2	0	0	1.2
Max	7.3	7.1	6.7	7.8	7.6	6.7	5.6	8.2	7.8	7.8	8.3	8	8.3	8.3	7.5	6.9	6.8	7	8	7.2	8.5	8.5	7.7	6.2	6
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% 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**  
**36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5**

**October 2002**

**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	1021	1020	1020	1020	1020	1021	1021	1021	1022	1022	1021	1021	1020	1019	1019	1018	1018	1019	1019	1019	1019	1019	1019	1019	1020	
2	1019	1019	1018	1018	1018	1018	1018	1019	1019	1019	1018	1018	1017	1016	1016	1015	1015	1016	1015	1016	1016	1016	1016	1016	1015	1017
3	1015	1015	1014	1014	1014	1014	1015	1015	1015	1016	1016	1015	1014	1014	1014	1014	1014	1015	1015	1015	1016	1016	1016	1015	1015	
4	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017	1016	1016	1015	1014	1014	1014	1014	1014	1015	1014	1014	1014	1014	1015	
5	1013	1013	1013	1013	1012	1013	1013	1013	1014	1014	1014	1014	1013	1012	1012	1012	1012	1013	1014	1014	1015	1015	1015	1015	1013	
6	1016	1017	1017	1018	1018	1019	1019	1019	1020	1020	1020	1020	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1017	1016	1018	
7	1016	1016	1015	1015	1014	1014	1014	1014	1015	1015	1014	1014	1013	1013	1012	1012	1012	1013	1013	1013	1014	1014	1015	1015	1014	
8	1015	1016	1016	1016	1017	1017	1018	1019	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1019	
9	1020	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1021	1021	1020	1020	1020	1020	1020	1020	1020	1021	1020	1020	1020	1021	
10	1020	1020	1019	1019	1020	1020	1020	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	
11	1019	1019	1018	1018	1018	1017	1017	1017	1017	1017	1016	1016	1015	1014	1013	1013	1013	1013	1012	1012	1011	1011	1012	1011	1015	
12	1010	1010	1010	1010	1011	1011	1012	1013	1014	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1017	1017	1017	1017	1014	
13	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1016	1017	1017	1017	1017	1018	1018	1017	
14	1018	1018	1018	1019	1019	1020	1021	1021	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1021	
15	1019	1019	1018	1017	1017	1017	1016	1016	1016	1016	1015	1014	1013	1012	1010	1009	1009	1008	1008	1007	1006	1004	1003	1001	1012	
16	999	997	996	996	996	996	997	998	998	998	998	998	998	998	999	1000	1001	1002	1003	1004	1006	1006	1007	1007	1000	
17	1008	1008	1008	1009	1010	1010	1011	1011	1012	1012	1012	1012	1012	1011	1011	1011	1011	1011	1011	1011	1012	1013	1014	1015	1011	
18	1015	1016	1016	1017	1018	1018	1019	1020	1020	1021	1021	1021	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1020	
19	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1019	1018	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1014	1018	
20	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1012	1013	1012	1013	1013	1013	1013	1013	1014	1014	1013	1013	
21	1013	1013	1012	1012	1013	1013	1013	1014	1015	1015	1015	1016	1016	1015	1015	1016	1016	1017	1017	1017	1017	1017	1018	1018	1015	
22	1017	1017	1017	1017	1017	1018	1019	1019	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1020	1019	
23	1020	1021	1020	1021	1021	1021	1021	1022	1022	1022	1023	1023	1022	1021	1021	1021	1021	1021	1022	1022	1023	1023	1022	1022	1022	
24	1023	1022	1022	1023	1023	1023	1023	1024	1024	1024	1024	1024	1023	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1023	
25	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1021	1020	1020	1019	1019	1018	1017	1017	1016	1015	1014	1013	1013	1019	
26	1012	1012	1011	1010	1011	1011	1011	1011	1012	1011	1011	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1014	1014	1014	1012	
27	1015	1015	1016	1016	1016	1017	1017	1018	1019	1019	1019	1019	1018	1018	1017	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	
28	1018	1018	1017	1017	1017	1017	1017	1017	1017	1016	1015	1015	1014	1014	1013	1012	1012	1012	1012	1012	1013	1014	1014	1014	1015	
29	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1012	1011	1011	1010	1009	1009	1009	1008	1008	1008	1008	1007	1012	
30	1008	1008	1008	1007	1007	1007	1007	1007	1007	1007	1006	1006	1005	1005	1005	1005	1005	1006	1007	1007	1008	1009	1009	1009	1007	
31	1009	1009	1010	1010	1011	1012	1013	1013	1014	1015	1015	1015	1014	1014	1015	1015	1016	1016	1017	1018	1018	1018	1018	1018	1014	
Avg	1016	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	
SD	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
S/A	0	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	0	0	0	0	0	0	0	0	0		
Min	999	997	996	996	996	996	997	998	998	998	998	998	998	998	999	1000	1001	1002	1003	1004	1006	1004	1003	1001	1000	
Max	1023	1022	1022	1023	1023	1023	1023	1024	1024	1024	1024	1023	1023	1022	1022	1022	1022	1022	1022	1022	1023	1023	1022	1022	1023	
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% 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.

Prepared by: Afshin M. Andreas, NREL