

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 17915

Luminaire Tested: **E2W-WH-2T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 17915
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WH-2T8
Description: DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL
WITH WHITE INTERIOR AND 38 CELL HI PERFORMANCE LOUVER BLADE

Light Source: TWO PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

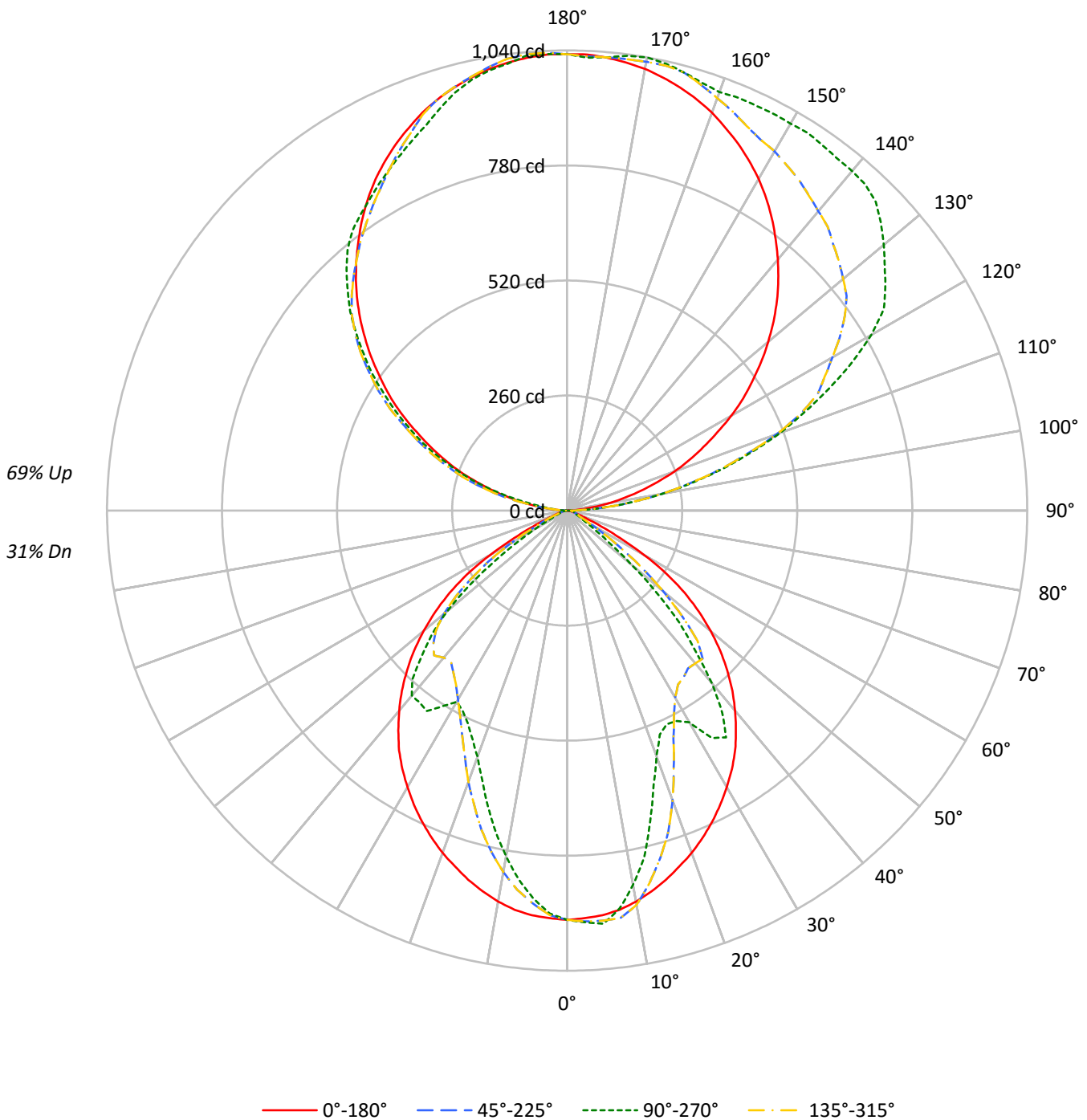
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 4765.9 lumens
Efficiency: 79.4%
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 0.78 / 1.06
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: E2W-WH-2T8

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	81	81	81	81	73	73	73	73	58	58	58	44	44	44	31	31	31	24
1	75	72	69	67	67	65	62	60	51	50	48	39	38	37	28	27	27	22
2	69	63	59	55	62	57	54	50	46	43	41	35	34	32	25	24	24	19
3	63	56	51	47	56	51	46	43	41	38	35	32	30	28	23	22	21	17
4	58	50	44	40	52	45	40	37	37	33	30	28	26	24	21	19	18	15
5	53	45	39	34	48	41	35	32	33	29	26	26	23	21	19	17	16	13
6	49	40	34	30	44	37	31	28	30	26	23	23	21	19	17	16	15	12
7	45	36	30	26	41	33	28	24	27	23	21	21	19	17	16	14	13	11
8	42	33	27	23	38	30	25	22	25	21	18	20	17	15	15	13	12	10
9	39	30	24	21	35	27	23	19	23	19	16	18	15	14	14	12	11	9
10	37	28	22	19	33	25	20	17	21	17	15	17	14	12	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12607	12607	12607	12607
5°	12559	12824	12559	12032
10°	12416	11885	12416	10981
15°	12186	10235	12186	9764
20°	11941	8561	11941	8590
25°	11666	8006	11666	7980
30°	11359	8695	11359	7850
35°	11016	10410	11016	9204
40°	10506	9036	10506	9714
45°	9868	6923	9868	8951
50°	8973	3986	8973	7501
55°	7699	1882	7699	4769
60°	5481	1071	5481	2380
65°	2731	861	2731	980
70°	1243	849	1243	741
75°	858	927	858	637
80°	746	1240	746	604
85°	829	2205	829	344



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	85.2	1.8	1.4
10°-20°	215.0	4.5	3.6
20°-30°	269.1	5.6	4.5
30°-40°	321.7	6.7	5.4
40°-50°	324.4	6.8	5.4
50°-60°	178.9	3.8	3.0
60°-70°	48.9	1.0	0.8
70°-80°	16.8	0.4	0.3
80°-90°	7.8	0.2	0.1
90°-100°	72.1	1.5	1.2
100°-110°	272.0	5.7	4.5
110°-120°	458.2	9.6	7.6
120°-130°	562.1	11.8	9.4
130°-140°	586.0	12.3	9.8
140°-150°	536.3	11.3	8.9
150°-160°	430.8	9.0	7.2
160°-170°	282.5	5.9	4.7
170°-180°	98.1	2.1	1.6
0°-30°	569.2	11.9	9.5
0°-40°	890.9	18.7	14.8
0°-60°	1394.2	29.3	23.2
0°-90°	1467.6	30.8	24.5
90°-120°	802.4	16.8	13.4
90°-150°	2486.8	52.2	41.4
90°-180°	3298.0	69.2	55.0
0°-180°	4765.9	100.0	79.4

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	925	925	925	925	925	
5°	918	937	918	880	918	87
15°	864	725	864	692	864	243
25°	776	532	776	531	776	357
35°	662	626	662	553	662	413
45°	512	359	512	464	512	393
55°	324	79	324	201	324	285
65°	85	27	85	30	85	94
75°	16	18	16	12	16	19
85°	5	14	5	2	5	6
90°	0	0	0	0	0	2
95°	31	90	31	24	31	39
105°	172	362	172	166	172	183
115°	340	653	340	358	340	338
125°	512	878	512	537	512	458
135°	671	986	671	701	671	517
145°	807	1007	807	815	807	504
155°	915	1010	915	889	915	421
165°	989	1024	989	978	989	279
175°	1028	1028	1028	1033	1028	98
180°	1031	1031	1031	1031	1031	



TEST NUMBER: 17915
 CATALOG NUMBER: E2W-WH-2T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0	925.0
2.5°	922.1	930.3	929.3	931.3	931.3	931.3	929.3	930.3	922.1	906.8	914.9
5°	918.0	929.3	930.3	935.7	937.4	935.7	930.3	929.3	918.0	881.3	891.4
7.5°	909.9	930.3	928.5	930.3	907.5	930.3	928.5	930.3	909.9	851.3	864.2
10°	897.2	914.9	904.8	889.4	858.8	889.4	904.8	914.9	897.2	816.2	829.6
12.5°	881.4	884.0	861.5	846.9	803.3	846.9	861.5	884.0	881.4	775.4	790.7
15°	863.7	832.3	812.5	780.8	725.4	780.8	812.5	832.3	863.7	727.4	747.2
17.5°	843.2	792.5	760.8	723.7	650.2	723.7	760.8	792.5	843.2	681.1	698.2
20°	823.3	721.9	696.5	632.1	590.3	632.1	696.5	721.9	823.3	632.1	652.2
22.5°	800.3	652.2	629.4	574.0	547.8	574.0	629.4	652.2	800.3	586.9	603.2
25°	775.8	589.6	568.8	534.2	532.4	534.2	568.8	589.6	775.8	542.3	560.6
27.5°	749.5	536.9	522.5	517.1	536.1	517.1	522.5	536.9	749.5	507.9	523.3
30°	721.8	499.8	487.9	517.1	552.5	517.1	487.9	499.8	721.8	482.7	493.3
32.5°	692.9	471.8	466.4	524.3	609.4	524.3	466.4	471.8	692.9	458.2	467.1
35°	662.1	459.9	459.0	558.7	625.7	558.7	459.0	459.9	662.1	439.9	448.1
37.5°	626.7	451.8	449.1	577.7	576.0	577.7	449.1	451.8	626.7	428.3	431.0
40°	590.5	447.3	450.8	533.4	507.9	533.4	450.8	447.3	590.5	436.4	433.7
42.5°	552.8	452.8	453.5	464.4	427.3	464.4	453.5	452.8	552.8	439.2	444.6
45°	512.0	433.7	416.4	386.5	359.2	386.5	416.4	433.7	512.0	418.1	428.3
47.5°	469.8	379.3	351.1	312.2	274.1	312.2	351.1	379.3	469.8	389.2	402.8
50°	423.2	306.8	281.3	238.8	188.0	238.8	281.3	306.8	423.2	345.6	363.9
52.5°	375.2	238.8	212.5	166.3	122.0	166.3	212.5	238.8	375.2	292.2	314.0
55°	324.0	174.4	150.9	107.4	79.2	107.4	150.9	174.4	324.0	224.4	256.8
57.5°	267.8	125.4	100.2	72.0	53.0	72.0	100.2	125.4	267.8	176.2	201.6
60°	201.1	75.7	61.1	48.5	39.3	48.5	61.1	75.7	201.1	119.3	141.8
62.5°	135.0	51.2	42.1	35.9	33.2	35.9	42.1	51.2	135.0	76.5	92.8
65°	84.7	33.9	31.2	28.5	26.7	28.5	31.2	33.9	84.7	45.8	58.4
67.5°	48.9	27.7	27.7	24.0	22.3	24.0	27.7	27.7	48.9	28.5	39.3
70°	31.2	24.0	22.3	22.3	21.3	22.3	22.3	24.0	31.2	21.3	25.0
72.5°	21.3	20.3	20.3	19.6	19.6	19.6	20.3	20.3	21.3	15.8	18.6
75°	16.3	18.6	17.6	17.6	17.6	17.6	17.6	18.6	16.3	13.1	14.1
77.5°	12.3	14.8	15.8	15.8	17.6	15.8	15.8	14.8	12.3	10.4	13.1
80°	9.5	14.8	14.1	14.8	15.8	14.8	14.1	14.8	9.5	7.7	8.7
82.5°	8.5	12.1	13.1	14.1	14.1	14.1	13.1	12.1	8.5	5.9	7.7
85°	5.3	11.4	9.4	14.1	14.1	14.1	9.4	11.4	5.3	4.0	5.9
87.5°	5.0	8.7	6.7	10.4	9.4	10.4	6.7	8.7	5.0	3.2	3.2
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	10.9	50.2	35.9	59.4	37.6	59.4	35.9	50.2	10.9	5.9	10.4
95°	31.2	104.7	88.3	114.6	90.1	114.6	88.3	104.7	31.2	25.0	30.4
97.5°	60.7	167.3	149.2	178.9	148.2	178.9	149.2	167.3	60.7	63.8	58.4
100°	94.8	267.7	216.2	286.8	218.0	286.8	216.2	267.7	94.8	107.4	101.9
102.5°	132.7	294.9	284.0	321.4	287.7	321.4	284.0	294.9	132.7	126.4	149.9
105°	172.2	335.7	355.8	391.9	362.0	391.9	355.8	335.7	172.2	190.8	194.5
107.5°	213.9	380.3	426.3	469.1	434.5	469.1	426.3	380.3	213.9	233.3	241.5
110°	257.8	427.3	503.5	543.3	511.6	543.3	503.5	427.3	257.8	275.9	283.3



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 CATALOG NUMBER: E2W-WH-2T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	299.1	454.5	571.3	615.8	580.4	615.8	571.3	454.5	299.1	318.7	327.6
115°	340.2	487.2	625.0	689.3	652.9	689.3	625.0	487.2	340.2	352.1	371.1
117.5°	382.9	519.8	656.6	752.6	726.4	752.6	656.6	519.8	382.9	398.3	414.7
120°	428.3	553.2	692.0	802.6	793.5	802.6	692.0	553.2	428.3	430.0	462.7
122.5°	471.7	603.2	730.9	845.2	848.6	845.2	730.9	603.2	471.7	464.4	506.2
125°	511.5	618.5	766.2	860.5	877.8	860.5	766.2	618.5	511.5	480.0	547.0
127.5°	553.2	648.5	796.2	896.9	904.8	896.9	796.2	648.5	553.2	534.2	588.6
130°	593.0	678.4	814.2	921.1	934.0	921.1	814.2	678.4	593.0	569.5	625.7
132.5°	632.6	708.3	833.3	944.9	961.9	944.9	833.3	708.3	632.6	605.9	660.1
135°	670.6	736.3	850.6	958.5	986.4	958.5	850.6	736.3	670.6	643.0	688.3
137.5°	706.5	763.5	871.4	964.7	998.3	964.7	871.4	763.5	706.5	678.4	714.5
140°	740.9	794.4	883.3	970.1	1001.8	970.1	883.3	794.4	740.9	715.5	740.0
142.5°	773.9	826.1	897.6	979.3	1002.8	979.3	897.6	826.1	773.9	752.6	767.2
145°	806.7	871.4	912.9	986.4	1007.2	986.4	912.9	871.4	806.7	790.7	791.7
147.5°	837.0	884.0	924.8	990.1	1011.9	990.1	924.8	884.0	837.0	807.1	817.0
150°	865.9	911.2	937.4	993.6	1009.9	993.6	937.4	911.2	865.9	856.8	842.4
152.5°	890.8	935.7	945.6	996.3	1010.9	996.3	945.6	935.7	890.8	885.0	869.7
155°	914.8	956.5	959.2	999.0	1009.9	999.0	959.2	956.5	914.8	909.5	897.6
157.5°	936.1	973.8	976.5	999.0	1009.9	999.0	976.5	973.8	936.1	933.0	923.8
160°	957.0	988.2	991.9	1006.5	1006.5	1006.5	991.9	988.2	957.0	954.8	953.0
162.5°	974.3	998.3	1008.2	1017.4	1013.6	1017.4	1008.2	998.3	974.3	975.5	974.8
165°	989.2	1008.2	1024.5	1031.0	1024.5	1031.0	1024.5	1008.2	989.2	995.6	990.1
167.5°	1002.4	1020.8	1030.0	1039.9	1034.4	1039.9	1030.0	1020.8	1002.4	1012.7	1003.7
170°	1013.6	1022.8	1030.0	1039.1	1039.9	1039.1	1030.0	1022.8	1013.6	1018.1	1018.1
172.5°	1021.4	1028.2	1029.0	1033.7	1036.4	1033.7	1029.0	1028.2	1021.4	1031.7	1030.0
175°	1027.6	1031.0	1028.2	1030.0	1028.2	1030.0	1028.2	1031.0	1027.6	1035.4	1035.4
177.5°	1031.8	1032.7	1027.3	1026.3	1024.5	1026.3	1027.3	1032.7	1031.8	1036.4	1035.4
180°	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3



TEST NUMBER: 17915
 CATALOG NUMBER: E2W-WH-2T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	925.0	925.0	925.0	925.0	925.0	925.0
2.5°	903.1	911.2	903.1	914.9	906.8	922.1
5°	869.7	879.5	869.7	891.4	881.3	918.0
7.5°	830.6	840.5	830.6	864.2	851.3	909.9
10°	782.6	793.5	782.6	829.6	816.2	897.2
12.5°	738.0	744.5	738.0	790.7	775.4	881.4
15°	683.8	692.0	683.8	747.2	727.4	863.7
17.5°	633.1	638.6	633.1	698.2	681.1	843.2
20°	586.9	592.3	586.9	652.2	632.1	823.3
22.5°	554.2	558.7	554.2	603.2	586.9	800.3
25°	522.5	530.7	522.5	560.6	542.3	775.8
27.5°	499.8	510.7	499.8	523.3	507.9	749.5
30°	486.2	498.8	486.2	493.3	482.7	721.8
32.5°	494.3	524.3	494.3	467.1	458.2	692.9
35°	526.0	553.2	526.0	448.1	439.9	662.1
37.5°	520.6	547.0	520.6	431.0	428.3	626.7
40°	511.6	546.0	511.6	433.7	436.4	590.5
42.5°	486.2	517.8	486.2	444.6	439.2	552.8
45°	439.2	464.4	439.2	428.3	418.1	512.0
47.5°	382.0	414.7	382.0	402.8	389.2	469.8
50°	317.7	353.8	317.7	363.9	345.6	423.2
52.5°	258.8	280.6	258.8	314.0	292.2	375.2
55°	177.2	200.7	177.2	256.8	224.4	324.0
57.5°	127.4	135.6	127.4	201.6	176.2	267.8
60°	78.4	87.3	78.4	141.8	119.3	201.1
62.5°	47.5	49.5	47.5	92.8	76.5	135.0
65°	30.4	30.4	30.4	58.4	45.8	84.7
67.5°	23.0	23.0	23.0	39.3	28.5	48.9
70°	17.6	18.6	17.6	25.0	21.3	31.2
72.5°	13.1	14.1	13.1	18.6	15.8	21.3
75°	11.4	12.1	11.4	14.1	13.1	16.3
77.5°	7.7	8.7	7.7	13.1	10.4	12.3
80°	6.7	7.7	6.7	8.7	7.7	9.5
82.5°	4.0	5.9	4.0	7.7	5.9	8.5
85°	3.2	2.2	3.2	5.9	4.0	5.3
87.5°	2.2	3.2	2.2	3.2	3.2	5.0
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	3.2	6.7	3.2	10.4	5.9	10.9
95°	17.6	24.0	17.6	30.4	25.0	31.2
97.5°	35.9	44.8	35.9	58.4	63.8	60.7
100°	63.1	71.3	63.1	101.9	107.4	94.8
102.5°	81.2	118.3	81.2	149.9	126.4	132.7
105°	150.9	166.3	150.9	194.5	190.8	172.2
107.5°	208.1	219.0	208.1	241.5	233.3	213.9
110°	248.7	264.2	248.7	283.3	275.9	257.8



TEST NUMBER: 17915
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	302.3	311.2	302.3	327.6	318.7	299.1
115°	347.6	357.5	347.6	371.1	352.1	340.2
117.5°	392.9	401.1	392.9	414.7	398.3	382.9
120°	436.4	446.3	436.4	462.7	430.0	428.3
122.5°	480.0	490.6	480.0	506.2	464.4	471.7
125°	499.8	536.9	499.8	547.0	480.0	511.5
127.5°	563.4	578.7	563.4	588.6	534.2	553.2
130°	610.4	622.2	610.4	625.7	569.5	593.0
132.5°	651.2	664.8	651.2	660.1	605.9	632.6
135°	690.0	700.9	690.0	688.3	643.0	670.6
137.5°	726.4	738.0	726.4	714.5	678.4	706.5
140°	758.1	771.7	758.1	740.0	715.5	740.9
142.5°	778.9	797.2	778.9	767.2	752.6	773.9
145°	799.9	815.2	799.9	791.7	790.7	806.7
147.5°	808.0	832.3	808.0	817.0	807.1	837.0
150°	838.7	851.3	838.7	842.4	856.8	865.9
152.5°	858.8	869.7	858.8	869.7	885.0	890.8
155°	878.6	888.7	878.6	897.6	909.5	914.8
157.5°	902.1	908.5	902.1	923.8	933.0	936.1
160°	924.8	928.5	924.8	953.0	954.8	957.0
162.5°	951.1	953.8	951.1	974.8	975.5	974.3
165°	977.5	978.3	977.5	990.1	995.6	989.2
167.5°	997.3	997.3	997.3	1003.7	1012.7	1002.4
170°	1002.8	1009.9	1002.8	1018.1	1018.1	1013.6
172.5°	1020.1	1019.1	1020.1	1030.0	1031.7	1021.4
175°	1032.7	1032.7	1032.7	1035.4	1035.4	1027.6
177.5°	1036.4	1032.7	1036.4	1035.4	1036.4	1031.8
180°	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3

(END OF REPORT)