

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P286873

Luminaire Tested: **DWI-WA-65L840-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87014-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DWI-WA-65L840-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6302.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.55 / 1.46 / 1.61
Luminous Opening: Rectangular (W 3.86' x L: 0.36' x H: 0')
CIE Type: General Diffuse

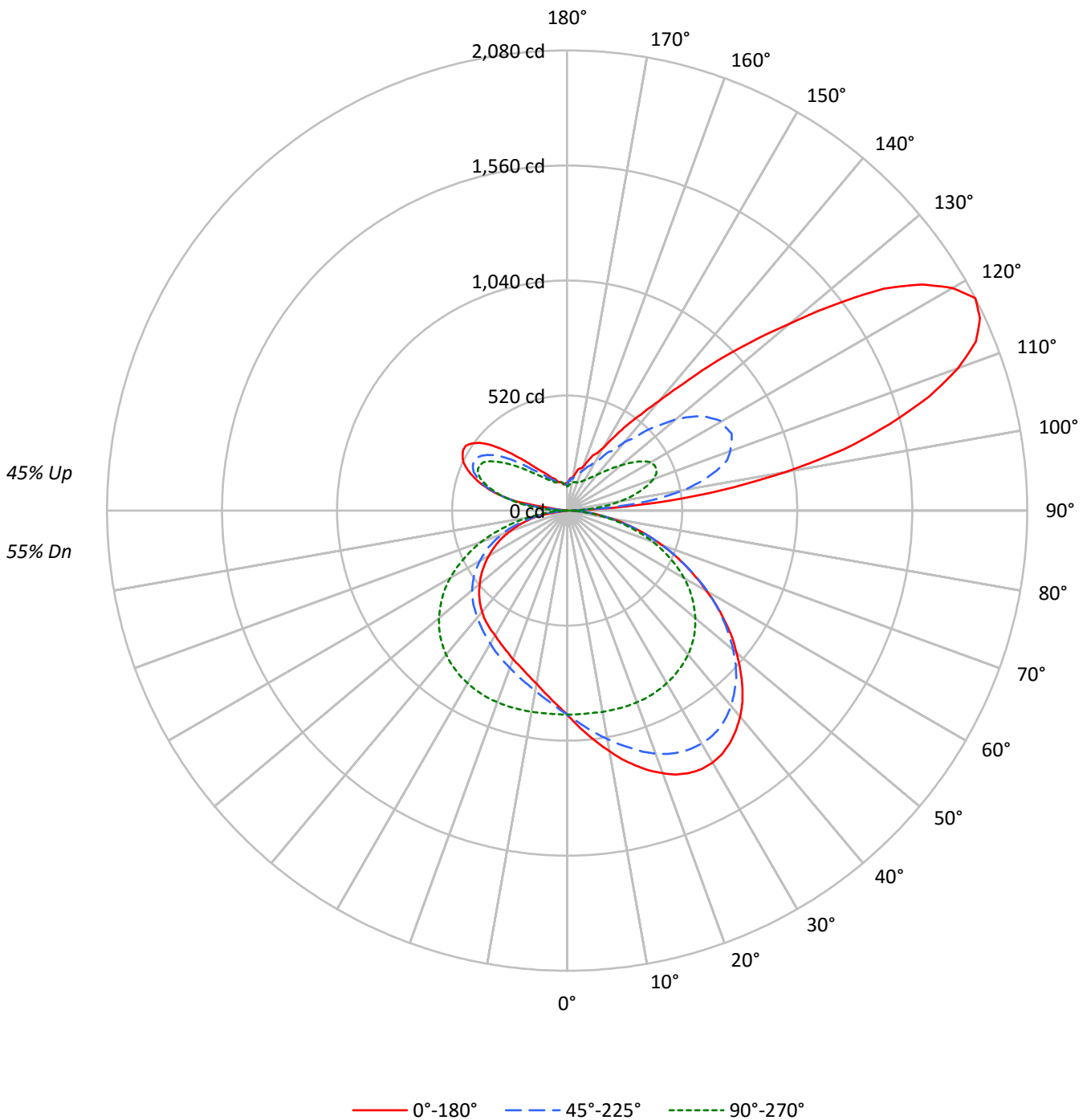
Input Watts (W): 57.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	98	94	90	86	91	87	84	80	75	72	70	64	62	60	53	52	51	46
2	89	81	75	69	82	76	70	65	65	61	57	55	52	49	46	44	42	37
3	81	71	63	57	75	66	59	54	57	52	47	48	44	41	40	37	35	31
4	74	62	54	48	68	58	51	45	50	44	40	43	38	34	36	32	29	26
5	68	55	47	41	62	52	44	38	45	38	34	38	33	29	32	28	25	22
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19
7	57	44	36	30	53	42	34	29	36	30	26	31	26	22	26	22	19	17
8	53	40	32	27	49	38	30	25	33	27	22	28	23	20	24	20	17	15
9	49	37	29	24	46	34	27	22	30	24	20	26	21	18	22	18	15	13
10	46	33	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7043	7043	7043
5°	7762	7070	6543
10°	8569	7169	6168
15°	9433	7309	5932
20°	10273	7495	5818
25°	11032	7717	5742
30°	11602	7943	5745
35°	11966	8198	5852
40°	12130	8487	5958
45°	12096	8753	6060
50°	11877	8991	6130
55°	11593	9188	6211
60°	11131	9325	6239
65°	10683	9324	6293
70°	10177	9216	6145
75°	9578	8690	5900
80°	8795	7752	5389
85°	7722	6408	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.4
10°-20°	269.6	4.3
20°-30°	443.5	7.0
30°-40°	579.2	9.2
40°-50°	641.8	10.2
50°-60°	610.1	9.7
60°-70°	488.0	7.7
70°-80°	293.8	4.7
80°-90°	73.0	1.2
90°-100°	185.9	2.9
100°-110°	620.4	9.8
110°-120°	754.3	12.0
120°-130°	603.9	9.6
130°-140°	341.9	5.4
140°-150°	167.3	2.7
150°-160°	86.3	1.4
160°-170°	42.3	0.7
170°-180°	12.4	0.2
0°-30°	802.0	12.7
0°-40°	1381.2	21.9
0°-60°	2633.0	41.8
0°-90°	3487.8	55.3
90°-120°	1560.6	24.8
90°-150°	2673.7	42.4
90°-180°	2815.0	44.7
0°-180°	6302.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	922	922	922	922	922	
5°	1012	984	922	870	853	99
15°	1193	1111	924	791	750	340
25°	1309	1206	916	726	681	603
35°	1283	1201	879	664	628	801
45°	1120	1081	810	600	561	862
55°	870	862	690	514	466	777
65°	591	595	516	391	348	586
75°	324	320	294	228	200	344
85°	88	84	73	6	0	94
90°	22	15	0	0	0	20
95°	400	260	129	13	0	444
105°	1509	701	344	355	361	1570
115°	2059	821	445	471	518	2006
125°	1749	746	385	438	529	1542
135°	952	518	260	301	372	750
145°	471	322	180	198	228	302
155°	275	219	144	150	163	126
165°	193	163	133	129	131	53
175°	144	133	118	120	122	14
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	967.1	967.1	964.9	962.8	958.5	952.0	945.6	939.1	932.7	926.2	921.9
5°	1012.2	1012.2	1007.9	1003.6	995.0	984.3	971.4	960.6	943.4	930.5	921.9
7.5°	1059.5	1059.5	1053.0	1044.4	1033.7	1016.5	999.3	980.0	954.2	934.8	921.9
10°	1104.6	1104.6	1098.2	1089.6	1072.4	1048.7	1025.1	997.1	967.1	939.1	924.1
12.5°	1151.9	1151.9	1141.1	1130.4	1108.9	1081.0	1050.9	1014.3	980.0	941.3	924.1
15°	1192.7	1192.7	1184.1	1171.2	1145.4	1111.0	1074.5	1029.4	988.6	945.6	924.1
17.5°	1231.4	1231.4	1222.8	1205.6	1179.8	1143.3	1098.2	1044.4	997.1	947.7	924.1
20°	1263.6	1263.6	1255.0	1237.8	1209.9	1169.1	1117.5	1061.6	1003.6	949.9	921.9
22.5°	1291.6	1289.4	1280.8	1261.5	1233.5	1190.6	1136.8	1070.2	1010.0	949.9	919.8
25°	1308.8	1306.6	1298.0	1280.8	1248.6	1205.6	1147.6	1076.7	1012.2	949.9	915.5
27.5°	1317.4	1315.2	1308.8	1289.4	1259.3	1214.2	1156.2	1083.1	1012.2	947.7	909.0
30°	1315.2	1315.2	1306.6	1291.6	1261.5	1216.3	1158.3	1083.1	1010.0	941.3	900.4
32.5°	1304.5	1302.3	1295.9	1283.0	1255.0	1212.0	1156.2	1078.8	1005.7	932.7	891.8
35°	1283.0	1283.0	1278.7	1265.8	1242.1	1201.3	1143.3	1068.1	995.0	919.8	879.0
37.5°	1252.9	1252.9	1250.7	1240.0	1218.5	1179.8	1126.1	1055.2	980.0	906.9	866.1
40°	1216.3	1218.5	1214.2	1205.6	1188.4	1154.0	1104.6	1035.8	962.8	889.7	851.0
42.5°	1173.4	1173.4	1169.1	1164.8	1149.7	1117.5	1074.5	1010.0	941.3	868.2	831.7
45°	1119.6	1119.6	1117.5	1115.3	1102.4	1081.0	1040.1	980.0	915.5	844.6	810.2
47.5°	1061.6	1063.8	1061.6	1061.6	1053.0	1033.7	997.1	941.3	885.4	818.8	784.4
50°	999.3	1003.6	1001.4	1003.6	995.0	980.0	949.9	902.6	851.0	788.7	756.5
52.5°	939.1	937.0	934.8	939.1	934.8	921.9	896.1	859.6	810.2	754.3	724.2
55°	870.4	868.2	870.4	874.7	870.4	861.8	842.4	808.0	767.2	717.8	689.8
57.5°	801.6	799.4	801.6	805.9	803.7	799.4	782.2	754.3	722.1	676.9	653.3
60°	728.5	730.7	732.8	735.0	739.3	735.0	717.8	698.4	672.6	634.0	610.3
62.5°	659.8	659.8	664.0	666.2	668.3	664.0	655.5	638.3	621.1	586.7	565.2
65°	591.0	591.0	593.1	595.3	599.6	595.3	588.8	578.1	563.0	535.1	515.8
67.5°	524.4	522.2	524.4	528.7	526.5	526.5	517.9	515.8	502.9	481.4	466.3
70°	455.6	453.4	455.6	455.6	457.7	455.6	453.4	451.3	440.5	429.8	412.6
72.5°	391.1	386.8	389.0	391.1	389.0	389.0	384.7	384.7	378.2	369.6	354.6
75°	324.5	322.4	322.4	322.4	322.4	320.2	313.8	318.1	315.9	309.5	294.4
77.5°	260.0	260.0	262.2	257.9	260.0	253.6	255.7	251.4	253.6	247.1	236.4
80°	199.9	197.7	197.7	197.7	197.7	193.4	191.3	189.1	193.4	187.0	176.2
82.5°	137.5	139.7	137.5	135.4	137.5	137.5	135.4	131.1	133.2	126.8	120.3
85°	88.1	88.1	88.1	83.8	83.8	83.8	86.0	83.8	81.7	77.4	73.1
87.5°	40.8	43.0	43.0	43.0	43.0	40.8	40.8	38.7	36.5	34.4	32.2
90°	21.5	21.5	19.3	19.3	17.2	15.0	12.9	8.6	6.4	2.1	0.0
92.5°	64.5	51.6	66.6	70.9	70.9	70.9	62.3	58.0	60.2	60.2	62.3
95°	399.7	382.5	395.4	378.2	333.1	260.0	174.1	139.7	133.2	126.8	128.9
97.5°	702.7	685.5	692.0	653.3	563.0	414.8	272.9	212.8	202.0	189.1	189.1
100°	999.3	986.4	971.4	915.5	767.2	537.3	354.6	279.4	266.5	249.3	245.0
102.5°	1283.0	1261.5	1229.2	1130.4	934.8	627.5	421.2	337.4	326.7	303.0	296.6
105°	1508.6	1489.3	1454.9	1302.3	1050.9	700.6	472.8	391.1	380.4	350.3	343.8
107.5°	1717.1	1706.3	1620.4	1452.7	1130.4	758.6	524.4	442.7	423.4	393.3	382.5
110°	1880.4	1863.2	1777.2	1553.7	1186.3	784.4	573.8	490.0	453.4	427.7	414.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2000.7	1987.8	1858.9	1601.0	1188.4	803.7	601.7	520.1	472.8	451.3	436.3
115°	2058.8	2039.4	1910.5	1607.5	1179.8	820.9	621.1	533.0	487.8	466.3	444.8
117.5°	2080.3	2058.8	1882.5	1562.3	1136.8	810.2	642.6	543.7	494.3	468.5	444.8
120°	2011.5	1992.1	1818.1	1485.0	1098.2	808.0	638.3	554.4	496.4	462.0	436.3
122.5°	1901.9	1878.2	1708.5	1390.4	1025.1	775.8	621.1	537.3	485.7	442.7	414.8
125°	1749.3	1727.8	1536.6	1252.9	967.1	745.7	608.2	507.2	455.6	412.6	384.7
127.5°	1534.4	1521.5	1366.8	1132.5	872.5	694.1	560.9	481.4	414.8	380.4	352.4
130°	1315.2	1306.6	1201.3	1003.6	797.3	642.6	526.5	449.1	373.9	343.8	318.1
132.5°	1126.1	1119.6	1016.5	859.6	704.9	571.6	472.8	395.4	343.8	307.3	288.0
135°	952.0	949.9	855.3	745.7	614.6	517.9	419.1	356.7	315.9	275.1	260.0
137.5°	777.9	777.9	728.5	640.4	545.9	442.7	382.5	330.9	285.8	247.1	232.1
140°	646.9	638.3	612.5	528.7	457.7	404.0	328.8	288.0	251.4	223.5	212.8
142.5°	548.0	539.4	496.4	455.6	401.9	341.7	311.6	257.9	223.5	202.0	195.6
145°	470.6	468.5	423.4	408.3	361.0	322.4	266.5	247.1	208.5	184.8	180.5
147.5°	391.1	391.1	380.4	341.7	305.2	275.1	255.7	217.1	199.9	171.9	167.6
150°	328.8	328.8	330.9	303.0	288.0	264.3	227.8	199.9	189.1	163.3	159.0
152.5°	292.3	294.4	279.4	285.8	253.6	229.9	210.6	197.7	171.9	154.7	150.4
155°	275.1	277.2	255.7	245.0	227.8	219.2	204.2	178.4	159.0	150.4	144.0
157.5°	238.5	242.8	245.0	219.2	223.5	199.9	178.4	163.3	152.6	148.3	137.5
160°	208.5	210.6	212.8	217.1	191.3	187.0	182.7	167.6	154.7	146.1	135.4
162.5°	199.9	197.7	191.3	191.3	187.0	178.4	159.0	156.9	152.6	144.0	133.2
165°	193.4	195.6	189.1	169.8	174.1	163.3	161.2	141.8	141.8	139.7	133.2
167.5°	169.8	171.9	174.1	171.9	154.7	159.0	148.3	146.1	133.2	137.5	131.1
170°	150.4	152.6	150.4	154.7	159.0	146.1	141.8	144.0	131.1	135.4	128.9
172.5°	150.4	148.3	146.1	139.7	137.5	146.1	141.8	131.1	133.2	131.1	124.6
175°	144.0	146.1	146.1	144.0	139.7	133.2	128.9	131.1	133.2	124.6	118.2
177.5°	131.1	133.2	131.1	133.2	133.2	135.4	135.4	133.2	124.6	116.0	111.7
180°	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	921.9	921.9	921.9	921.9
2.5°	909.0	896.1	887.5	885.4
5°	894.0	870.4	857.5	853.2
7.5°	881.1	848.9	829.5	823.1
10°	868.2	827.4	803.7	795.1
12.5°	853.2	808.0	780.1	771.5
15°	842.4	790.8	760.8	750.0
17.5°	829.5	773.6	741.4	730.7
20°	816.6	756.5	724.2	715.6
22.5°	805.9	741.4	709.2	696.3
25°	793.0	726.4	692.0	681.2
27.5°	780.1	711.3	676.9	666.2
30°	767.2	694.1	661.9	651.2
32.5°	752.2	679.1	649.0	640.4
35°	739.3	664.0	636.1	627.5
37.5°	724.2	646.9	621.1	614.6
40°	707.0	631.8	606.0	597.4
42.5°	689.8	614.6	591.0	580.2
45°	670.5	599.6	573.8	560.9
47.5°	651.2	580.2	552.3	539.4
50°	627.5	560.9	528.7	515.8
52.5°	601.7	537.3	505.0	492.1
55°	575.9	513.6	479.2	466.3
57.5°	548.0	485.7	451.3	438.4
60°	515.8	455.6	423.4	408.3
62.5°	481.4	423.4	391.1	378.2
65°	447.0	391.1	358.9	348.1
67.5°	410.5	352.4	322.4	313.8
70°	365.3	313.8	283.7	275.1
72.5°	318.1	275.1	242.8	238.5
75°	270.8	227.8	204.2	199.9
77.5°	221.3	180.5	165.5	163.3
80°	169.8	135.4	124.6	122.5
82.5°	116.0	90.3	10.7	0.0
85°	64.5	6.4	2.1	0.0
87.5°	6.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	15.0	2.1	0.0	0.0
95°	113.9	12.9	2.1	0.0
97.5°	191.3	167.6	62.3	0.0
100°	253.6	240.7	234.2	225.6
102.5°	300.9	300.9	305.2	303.0
105°	339.5	354.6	358.9	361.0
107.5°	376.1	399.7	408.3	412.6
110°	406.2	429.8	451.3	453.4



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	421.2	457.7	481.4	490.0
115°	427.7	470.6	507.2	517.9
117.5°	427.7	477.1	522.2	533.0
120°	423.4	474.9	526.5	543.7
122.5°	406.2	459.9	524.4	543.7
125°	378.2	438.4	505.0	528.7
127.5°	350.3	410.5	474.9	502.9
130°	322.4	376.1	442.7	466.3
132.5°	288.0	339.5	397.6	419.1
135°	257.9	300.9	352.4	371.8
137.5°	236.4	270.8	311.6	326.7
140°	214.9	240.7	277.2	288.0
142.5°	191.3	221.3	242.8	253.6
145°	178.4	197.7	221.3	227.8
147.5°	169.8	187.0	204.2	208.5
150°	156.9	169.8	184.8	193.4
152.5°	148.3	165.5	174.1	176.2
155°	146.1	150.4	165.5	163.3
157.5°	141.8	148.3	150.4	156.9
160°	131.1	137.5	144.0	148.3
162.5°	128.9	137.5	141.8	137.5
165°	131.1	128.9	131.1	131.1
167.5°	124.6	128.9	124.6	133.2
170°	120.3	120.3	126.8	124.6
172.5°	124.6	124.6	118.2	118.2
175°	124.6	120.3	118.2	122.5
177.5°	107.5	118.2	122.5	124.6
180°	109.6	109.6	109.6	109.6

(END OF REPORT)