

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: P286901

Luminaire Tested: **DWI-WD-40L835-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P286901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87015-GONIOPHOTOMETRY)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DWI-WD-40L835-1D-UNV-STD-W-WM-4  
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE  
WAVESTREAM DIFFUSE OPTIC, ASYMMETRIC  
Light Source: (154) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4021.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.5 / 1.34 / 1.55  
Luminous Opening: Rectangular (W 3.86' x L: 0.36' x H: 0')  
CIE Type: General Diffuse

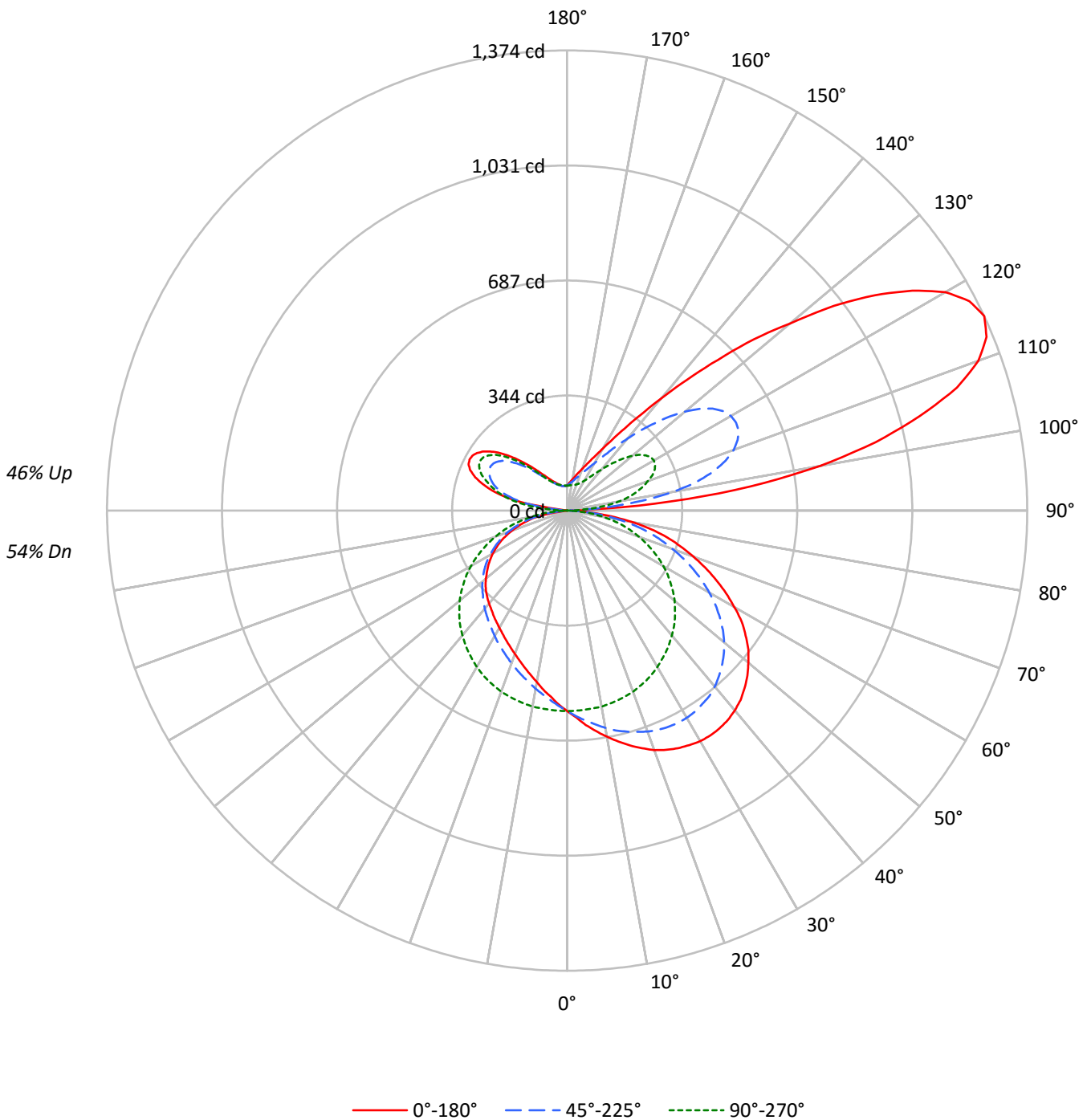
Input Watts (W): 31.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: DWI-WD-40L835-1D-UNV-STD-W-WM-4

### 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	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	98	93	89	85	91	87	83	80	74	72	69	63	61	59	52	51	49	44
2	89	81	74	69	82	75	69	64	64	60	56	54	51	48	45	43	41	36
3	81	70	63	56	74	65	59	53	56	51	46	47	43	40	39	36	34	30
4	73	62	54	47	68	58	50	44	49	44	39	42	37	34	35	31	29	25
5	67	55	46	40	62	51	43	38	44	38	33	37	32	29	31	27	24	21
6	62	49	40	34	57	46	38	32	39	33	29	33	29	25	28	24	21	18
7	57	44	36	30	52	41	34	28	35	29	25	30	25	22	25	22	19	16
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	19	17	14
9	49	36	29	23	45	34	27	22	29	24	20	25	21	17	21	18	15	13
10	46	33	26	21	42	31	24	20	27	21	18	23	19	15	20	16	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	4571	4571	4571
5°	4929	4578	4278
10°	5321	4609	4035
15°	5744	4636	3847
20°	6189	4678	3702
25°	6599	4714	3612
30°	7013	4755	3566
35°	7402	4800	3569
40°	7767	4851	3615
45°	8094	4920	3698
50°	8392	4981	3764
55°	8668	5025	3841
60°	8812	5065	3911
65°	8890	5090	3970
70°	8939	5086	3913
75°	9109	5092	3820
80°	8715	4861	2666
85°	6259	3778	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	1.4
10°-20°	168.9	4.2
20°-30°	269.6	6.7
30°-40°	346.9	8.6
40°-50°	388.1	9.7
50°-60°	380.4	9.5
60°-70°	317.0	7.9
70°-80°	205.5	5.1
80°-90°	50.9	1.3
90°-100°	119.7	3.0
100°-110°	404.8	10.1
110°-120°	486.1	12.1
120°-130°	397.9	9.9
130°-140°	233.4	5.8
140°-150°	109.3	2.7
150°-160°	52.5	1.3
160°-170°	25.3	0.6
170°-180°	7.5	0.2
0°-30°	495.7	12.3
0°-40°	842.7	21.0
0°-60°	1611.1	40.1
0°-90°	2184.5	54.3
90°-120°	1010.7	25.1
90°-150°	1751.3	43.6
90°-180°	1837.0	45.7
0°-180°	4021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	598	598	598	598	598	
5°	643	629	597	569	558	63
15°	726	683	586	512	486	207
25°	783	713	559	458	428	362
35°	794	705	515	407	383	497
45°	749	654	455	356	342	578
55°	651	556	377	300	288	580
65°	492	416	282	229	220	486
75°	309	253	172	139	129	322
85°	71	61	43	3	0	85
90°	12	8	0	0	0	15
95°	313	125	74	4	0	348
105°	1090	453	216	194	232	1133
115°	1374	565	288	256	325	1338
125°	1121	531	287	255	307	998
135°	636	368	208	191	221	503
145°	299	210	125	123	136	197
155°	164	133	90	90	96	79
165°	112	100	80	78	78	32
175°	84	80	76	73	73	8
180°	74	74	74	74	74	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3
2.5°	618.5	619.8	619.8	618.5	617.1	614.4	611.7	607.7	605.0	601.0	598.3
5°	642.7	642.7	642.7	638.7	634.7	629.3	622.5	615.8	609.1	602.3	596.9
7.5°	664.3	665.6	663.0	658.9	652.2	644.1	634.7	623.9	613.1	601.0	595.6
10°	685.9	687.2	683.2	679.1	669.7	658.9	645.4	629.3	614.4	599.6	594.2
12.5°	706.1	707.4	703.4	698.0	687.2	672.4	654.9	634.7	615.8	599.6	590.2
15°	726.3	726.3	722.2	715.5	700.7	683.2	663.0	638.7	615.8	595.6	586.1
17.5°	743.8	742.5	738.4	729.0	712.8	692.6	668.3	640.0	614.4	591.5	580.8
20°	761.3	760.0	754.6	743.8	726.3	702.0	675.1	642.7	613.1	587.5	575.4
22.5°	773.4	772.1	766.7	754.6	735.7	708.8	677.8	641.4	609.1	582.1	567.3
25°	782.9	782.9	776.1	764.0	742.5	712.8	679.1	640.0	605.0	574.0	559.2
27.5°	789.6	789.6	782.9	769.4	746.5	715.5	677.8	637.3	598.3	565.9	549.8
30°	795.0	793.7	786.9	770.7	747.8	714.2	675.1	632.0	591.5	556.5	539.0
32.5°	796.3	795.0	786.9	770.7	745.1	711.5	671.0	625.2	582.1	545.7	526.9
35°	793.7	792.3	784.2	766.7	739.8	704.7	663.0	615.8	571.3	533.6	514.7
37.5°	788.3	788.3	778.8	761.3	734.4	698.0	654.9	606.4	560.5	520.1	501.3
40°	778.8	778.8	769.4	750.5	723.6	685.9	642.7	594.2	547.1	505.3	486.4
42.5°	766.7	765.4	754.6	735.7	707.4	671.0	627.9	578.1	532.2	489.1	471.6
45°	749.2	747.8	738.4	719.5	689.9	653.5	610.4	561.9	516.1	473.0	455.4
47.5°	730.3	729.0	718.2	699.3	671.0	634.7	591.5	544.4	498.6	456.8	436.6
50°	706.1	706.1	695.3	676.4	648.1	611.7	568.6	522.8	478.3	436.6	419.1
52.5°	681.8	679.1	668.3	648.1	621.2	586.1	544.4	499.9	456.8	416.4	398.8
55°	650.8	646.8	637.3	618.5	591.5	556.5	517.4	474.3	433.9	394.8	377.3
57.5°	618.5	614.4	602.3	583.5	557.8	525.5	487.8	447.4	409.6	371.9	355.7
60°	576.7	576.7	564.6	545.7	521.5	490.5	456.8	419.1	382.7	347.6	331.5
62.5°	534.9	536.3	524.2	505.3	482.4	454.1	423.1	388.1	354.4	323.4	307.2
65°	491.8	491.8	479.7	462.2	442.0	416.4	386.7	355.7	324.7	296.4	281.6
67.5°	446.0	446.0	436.6	417.7	398.8	375.9	350.3	323.4	295.1	268.1	254.7
70°	400.2	398.8	390.8	373.2	355.7	335.5	312.6	289.7	264.1	239.8	227.7
72.5°	354.4	353.0	346.3	328.8	314.0	295.1	276.2	254.7	233.1	211.6	200.8
75°	308.6	305.9	299.1	283.0	269.5	253.3	234.5	219.6	200.8	181.9	172.5
77.5°	257.4	256.0	249.3	233.1	222.3	208.9	194.0	180.6	167.1	149.6	142.8
80°	198.1	195.4	191.3	177.9	171.1	160.3	149.6	140.1	129.4	117.2	110.5
82.5°	132.1	130.7	129.4	122.6	115.9	110.5	103.8	97.0	90.3	80.8	78.2
85°	71.4	72.8	71.4	67.4	63.3	60.6	59.3	55.2	52.6	45.8	43.1
87.5°	21.6	22.9	22.9	22.9	22.9	22.9	22.9	20.2	18.9	16.2	13.5
90°	12.1	12.1	12.1	10.8	10.8	8.1	6.7	4.0	2.7	0.0	0.0
92.5°	63.3	66.0	68.7	62.0	48.5	36.4	32.3	33.7	31.0	29.6	25.6
95°	312.6	311.3	300.5	260.1	190.0	125.3	101.1	97.0	87.6	82.2	74.1
97.5°	552.5	548.4	522.8	447.4	347.6	225.0	169.8	153.6	138.8	129.4	118.6
100°	765.4	760.0	720.9	623.9	482.4	322.0	235.8	204.8	184.6	168.4	157.7
102.5°	943.2	937.8	886.6	762.7	584.8	396.2	291.1	249.3	222.3	202.1	190.0
105°	1090.1	1086.1	1021.4	871.8	663.0	452.7	334.2	284.3	253.3	227.7	215.6
107.5°	1220.8	1204.6	1121.1	955.3	718.2	495.9	369.2	315.3	280.3	252.0	237.2
110°	1307.0	1290.9	1196.5	1009.2	753.2	529.6	401.5	342.3	304.5	272.2	256.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1355.5	1344.8	1239.7	1037.5	772.1	551.1	425.8	365.2	324.7	291.1	274.9
115°	1374.4	1359.6	1247.7	1036.2	773.4	564.6	444.7	384.0	342.3	303.2	288.4
117.5°	1354.2	1338.0	1223.5	1010.6	761.3	568.6	456.8	394.8	350.3	312.6	296.4
120°	1304.3	1285.5	1170.9	967.5	738.4	564.6	462.2	400.2	355.7	316.7	299.1
122.5°	1222.1	1204.6	1094.1	905.5	703.4	552.5	456.8	397.5	353.0	312.6	296.4
125°	1121.1	1102.2	1002.5	835.4	660.3	530.9	444.7	386.7	342.3	304.5	287.0
127.5°	1003.9	983.6	902.8	755.9	609.1	498.6	423.1	367.9	324.7	289.7	273.5
130°	869.1	862.4	793.7	672.4	556.5	459.5	392.1	340.9	301.8	269.5	254.7
132.5°	757.3	737.1	683.2	587.5	494.5	415.0	355.7	309.9	273.5	245.2	231.8
135°	636.0	621.2	579.4	505.3	433.9	367.9	316.7	276.2	243.9	218.3	207.5
137.5°	529.6	521.5	486.4	433.9	374.6	323.4	278.9	242.5	214.2	192.7	183.3
140°	436.6	431.2	406.9	365.2	320.7	280.3	242.5	211.6	187.3	168.4	160.3
142.5°	359.8	355.7	338.2	307.2	274.9	242.5	210.2	185.9	163.0	148.2	141.5
145°	299.1	296.4	283.0	261.4	234.5	210.2	184.6	163.0	144.2	130.7	125.3
147.5°	250.6	249.3	239.8	225.0	204.8	183.3	163.0	144.2	128.0	117.2	111.8
150°	214.2	212.9	207.5	194.0	179.2	163.0	145.5	130.7	115.9	106.4	102.4
152.5°	185.9	184.6	180.6	171.1	160.3	146.9	132.1	119.9	107.8	98.4	95.7
155°	164.4	163.0	160.3	153.6	144.2	133.4	121.3	110.5	99.7	93.0	90.3
157.5°	146.9	146.9	144.2	138.8	130.7	122.6	113.2	103.8	94.3	88.9	86.2
160°	133.4	133.4	130.7	125.3	121.3	113.2	105.1	97.0	90.3	86.2	83.5
162.5°	121.3	121.3	118.6	115.9	111.8	105.1	99.7	93.0	87.6	83.5	80.8
165°	111.8	111.8	110.5	107.8	103.8	99.7	94.3	88.9	83.5	80.8	79.5
167.5°	102.4	103.8	102.4	99.7	97.0	93.0	88.9	84.9	82.2	79.5	78.2
170°	95.7	95.7	94.3	93.0	91.6	87.6	86.2	83.5	79.5	78.2	76.8
172.5°	88.9	88.9	87.6	87.6	86.2	84.9	82.2	80.8	78.2	76.8	76.8
175°	83.5	83.5	82.2	82.2	82.2	79.5	79.5	78.2	76.8	76.8	75.5
177.5°	79.5	79.5	79.5	78.2	78.2	78.2	78.2	76.8	75.5	75.5	74.1
180°	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1



TEST NUMBER: P286901

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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	598.3	598.3	598.3	598.3
2.5°	591.5	583.5	579.4	579.4
5°	582.1	568.6	560.5	557.8
7.5°	574.0	553.8	543.0	540.3
10°	563.2	540.3	525.5	520.1
12.5°	552.5	525.5	509.3	502.6
15°	540.3	512.0	493.2	486.4
17.5°	529.6	498.6	478.3	470.3
20°	517.4	485.1	463.5	455.4
22.5°	506.6	471.6	450.1	442.0
25°	494.5	458.1	436.6	428.5
27.5°	482.4	446.0	423.1	416.4
30°	468.9	432.5	411.0	404.2
32.5°	458.1	419.1	400.2	393.5
35°	444.7	406.9	388.1	382.7
37.5°	431.2	394.8	377.3	371.9
40°	416.4	382.7	366.5	362.5
42.5°	402.9	369.2	355.7	353.0
45°	388.1	355.7	344.9	342.3
47.5°	373.2	343.6	332.8	330.1
50°	357.1	330.1	319.3	316.7
52.5°	339.6	315.3	304.5	301.8
55°	323.4	300.5	289.7	288.4
57.5°	304.5	284.3	273.5	272.2
60°	285.7	266.8	257.4	256.0
62.5°	265.4	247.9	238.5	238.5
65°	245.2	229.1	219.6	219.6
67.5°	223.7	208.9	200.8	198.1
70°	202.1	187.3	176.5	175.2
72.5°	180.6	164.4	152.3	152.3
75°	155.0	138.8	129.4	129.4
77.5°	130.7	111.8	103.8	103.8
80°	102.4	82.2	71.4	60.6
82.5°	68.7	48.5	2.7	0.0
85°	35.0	2.7	0.0	0.0
87.5°	4.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	4.0	0.0	0.0	0.0
95°	51.2	4.0	1.3	0.0
97.5°	99.7	76.8	8.1	0.0
100°	140.1	125.3	128.0	128.0
102.5°	168.4	164.4	180.6	190.0
105°	190.0	194.0	218.3	231.8
107.5°	207.5	218.3	249.3	265.4
110°	223.7	235.8	273.5	292.4





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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
112.5°	237.2	247.9	291.1	312.6
115°	247.9	256.0	300.5	324.7
117.5°	254.7	261.4	304.5	328.8
120°	257.4	264.1	303.2	327.4
122.5°	254.7	261.4	296.4	319.3
125°	247.9	254.7	285.7	307.2
127.5°	237.2	243.9	272.2	289.7
130°	221.0	227.7	253.3	269.5
132.5°	203.5	210.2	233.1	245.2
135°	183.3	191.3	210.2	221.0
137.5°	163.0	171.1	187.3	196.7
140°	145.5	152.3	165.7	173.8
142.5°	129.4	136.1	146.9	153.6
145°	115.9	122.6	130.7	136.1
147.5°	105.1	111.8	118.6	122.6
150°	97.0	102.4	109.1	110.5
152.5°	91.6	95.7	99.7	102.4
155°	86.2	90.3	94.3	95.7
157.5°	82.2	86.2	87.6	90.3
160°	79.5	82.2	84.9	84.9
162.5°	78.2	79.5	80.8	82.2
165°	76.8	78.2	78.2	78.2
167.5°	75.5	75.5	75.5	75.5
170°	75.5	74.1	74.1	74.1
172.5°	74.1	74.1	72.8	74.1
175°	74.1	72.8	72.8	72.8
177.5°	74.1	74.1	74.1	74.1
180°	74.1	74.1	74.1	74.1

(END OF REPORT)