

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: P286908

Luminaire Tested: **DWI-WD-50L840-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P286908  
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-50L840-1D-UNV-STD-W-WM-4  
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE  
WAVESTREAM DIFFUSE OPTIC, ASYMMETRIC  
Light Source: (154) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5029.4 lumens  
Efficiency: N/A  
Efficacy: 121.8 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

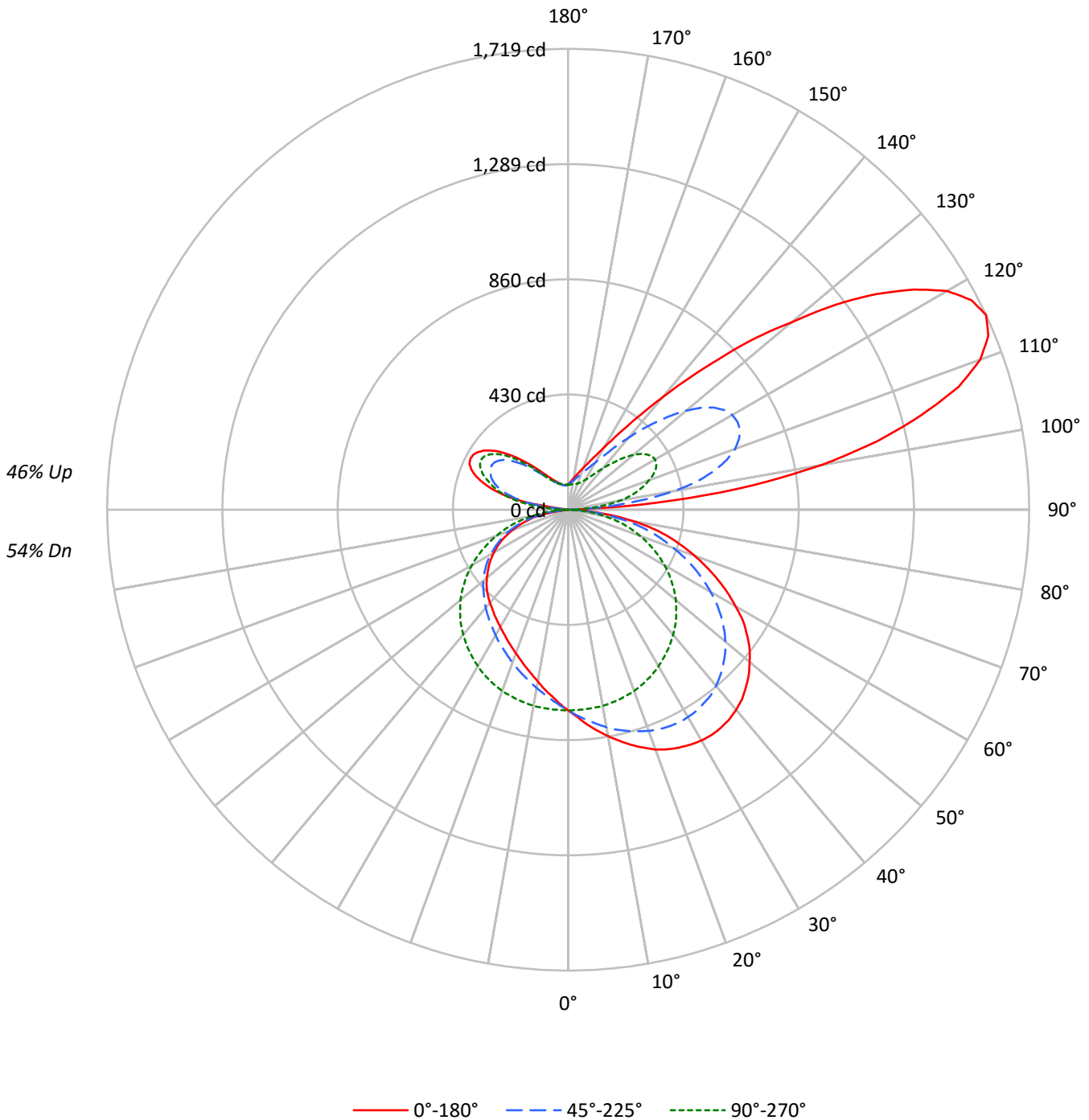
Input Watts (W): 41.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5717	5717	5717
5°	6165	5726	5351
10°	6655	5766	5047
15°	7185	5798	4812
20°	7741	5851	4632
25°	8254	5896	4518
30°	8772	5947	4460
35°	9258	6004	4464
40°	9716	6067	4522
45°	10124	6155	4625
50°	10496	6230	4708
55°	10842	6285	4804
60°	11021	6335	4892
65°	11121	6367	4966
70°	11182	6361	4894
75°	11394	6367	4776
80°	10902	6080	3335
85°	7828	4725	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.4
10°-20°	211.3	4.2
20°-30°	337.2	6.7
30°-40°	433.9	8.6
40°-50°	485.4	9.7
50°-60°	475.7	9.5
60°-70°	396.5	7.9
70°-80°	257.0	5.1
80°-90°	63.7	1.3
90°-100°	149.8	3.0
100°-110°	506.3	10.1
110°-120°	608.1	12.1
120°-130°	497.7	9.9
130°-140°	292.0	5.8
140°-150°	136.7	2.7
150°-160°	65.7	1.3
160°-170°	31.6	0.6
170°-180°	9.4	0.2
0°-30°	620.1	12.3
0°-40°	1054.0	21.0
0°-60°	2015.1	40.1
0°-90°	2732.3	54.3
90°-120°	1264.1	25.1
90°-150°	2190.5	43.6
90°-180°	2297.0	45.7
0°-180°	5029.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	748	748	748	748	748	
5°	804	787	747	711	698	78
15°	908	854	733	640	608	258
25°	979	892	699	573	536	453
35°	993	882	644	509	479	622
45°	937	817	570	445	428	723
55°	814	696	472	376	361	726
65°	615	521	352	286	275	607
75°	386	317	216	174	162	402
85°	89	76	54	3	0	107
90°	15	10	0	0	0	19
95°	391	157	93	5	0	435
105°	1364	566	270	243	290	1417
115°	1719	706	361	320	406	1673
125°	1402	664	359	318	384	1249
135°	796	460	260	239	276	630
145°	374	263	157	153	170	246
155°	206	167	113	113	120	98
165°	140	125	99	98	98	41
175°	104	99	94	91	91	10
180°	93	93	93	93	93	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	773.6	775.3	775.3	773.6	771.9	768.5	765.2	760.1	756.7	751.7	748.3
5°	803.9	803.9	803.9	798.9	793.8	787.1	778.7	770.2	761.8	753.4	746.6
7.5°	830.9	832.6	829.2	824.2	815.7	805.6	793.8	780.3	766.9	751.7	744.9
10°	857.9	859.6	854.5	849.4	837.6	824.2	807.3	787.1	768.5	750.0	743.3
12.5°	883.1	884.8	879.8	873.0	859.6	841.0	819.1	793.8	770.2	750.0	738.2
15°	908.4	908.4	903.4	894.9	876.4	854.5	829.2	798.9	770.2	744.9	733.1
17.5°	930.3	928.7	923.6	911.8	891.6	866.3	836.0	800.6	768.5	739.9	726.4
20°	952.2	950.6	943.8	930.3	908.4	878.1	844.4	803.9	766.9	734.8	719.7
22.5°	967.4	965.7	959.0	943.8	920.2	886.5	847.8	802.2	761.8	728.1	709.6
25°	979.2	979.2	970.8	955.6	928.7	891.6	849.4	800.6	756.7	718.0	699.4
27.5°	987.6	987.6	979.2	962.4	933.7	894.9	847.8	797.2	748.3	707.9	687.6
30°	994.4	992.7	984.3	964.0	935.4	893.3	844.4	790.5	739.9	696.1	674.2
32.5°	996.1	994.4	984.3	964.0	932.0	889.9	839.3	782.0	728.1	682.6	659.0
35°	992.7	991.0	980.9	959.0	925.3	881.5	829.2	770.2	714.6	667.4	643.8
37.5°	986.0	986.0	974.2	952.2	918.5	873.0	819.1	758.4	701.1	650.6	627.0
40°	974.2	974.2	962.4	938.8	905.1	857.9	803.9	743.3	684.3	632.0	608.4
42.5°	959.0	957.3	943.8	920.2	884.8	839.3	785.4	723.0	665.7	611.8	589.9
45°	937.1	935.4	923.6	900.0	862.9	817.4	763.5	702.8	645.5	591.6	569.7
47.5°	913.5	911.8	898.3	874.7	839.3	793.8	739.9	680.9	623.6	571.3	546.1
50°	883.1	883.1	869.7	846.1	810.7	765.2	711.2	653.9	598.3	546.1	524.2
52.5°	852.8	849.4	836.0	810.7	777.0	733.1	680.9	625.3	571.3	520.8	498.9
55°	814.0	809.0	797.2	773.6	739.9	696.1	647.2	593.3	542.7	493.8	471.9
57.5°	773.6	768.5	753.4	729.8	697.8	657.3	610.1	559.6	512.4	465.2	444.9
60°	721.3	721.3	706.2	682.6	652.2	613.5	571.3	524.2	478.7	434.8	414.6
62.5°	669.1	670.8	655.6	632.0	603.4	568.0	529.2	485.4	443.3	404.5	384.3
65°	615.2	615.2	600.0	578.1	552.8	520.8	483.7	444.9	406.2	370.8	352.2
67.5°	557.9	557.9	546.1	522.5	498.9	470.2	438.2	404.5	369.1	335.4	318.5
70°	500.6	498.9	488.8	466.9	444.9	419.7	391.0	362.4	330.3	300.0	284.8
72.5°	443.3	441.6	433.1	411.2	392.7	369.1	345.5	318.5	291.6	264.6	251.1
75°	386.0	382.6	374.2	353.9	337.1	316.9	293.3	274.7	251.1	227.5	215.7
77.5°	321.9	320.2	311.8	291.6	278.1	261.2	242.7	225.8	209.0	187.1	178.7
80°	247.8	244.4	239.3	222.5	214.0	200.6	187.1	175.3	161.8	146.6	138.2
82.5°	165.2	163.5	161.8	153.4	144.9	138.2	129.8	121.3	112.9	101.1	97.8
85°	89.3	91.0	89.3	84.3	79.2	75.8	74.2	69.1	65.7	57.3	53.9
87.5°	27.0	28.7	28.7	28.7	28.7	28.7	28.7	25.3	23.6	20.2	16.9
90°	15.2	15.2	15.2	13.5	13.5	10.1	8.4	5.1	3.4	0.0	0.0
92.5°	79.2	82.6	86.0	77.5	60.7	45.5	40.4	42.1	38.8	37.1	32.0
95°	391.0	389.3	375.8	325.3	237.6	156.7	126.4	121.3	109.6	102.8	92.7
97.5°	691.0	686.0	653.9	559.6	434.8	281.5	212.4	192.1	173.6	161.8	148.3
100°	957.3	950.6	901.7	780.3	603.4	402.8	294.9	256.2	230.9	210.7	197.2
102.5°	1179.8	1173.0	1109.0	953.9	731.5	495.5	364.0	311.8	278.1	252.8	237.6
105°	1363.5	1358.4	1277.5	1090.5	829.2	566.3	418.0	355.6	316.9	284.8	269.7
107.5°	1527.0	1506.7	1402.2	1194.9	898.3	620.2	461.8	394.4	350.6	315.2	296.6
110°	1634.8	1614.6	1496.6	1262.4	942.1	662.4	502.2	428.1	380.9	340.5	320.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1695.5	1682.0	1550.6	1297.8	965.7	689.3	532.6	456.7	406.2	364.0	343.8
115°	1719.1	1700.6	1560.7	1296.1	967.4	706.2	556.2	480.3	428.1	379.2	360.7
117.5°	1693.8	1673.6	1530.3	1264.0	952.2	711.2	571.3	493.8	438.2	391.0	370.8
120°	1631.5	1607.9	1464.6	1210.1	923.6	706.2	578.1	500.6	444.9	396.1	374.2
122.5°	1528.7	1506.7	1368.5	1132.6	879.8	691.0	571.3	497.2	441.6	391.0	370.8
125°	1402.2	1378.7	1253.9	1044.9	825.8	664.0	556.2	483.7	428.1	380.9	359.0
127.5°	1255.6	1230.3	1129.2	945.5	761.8	623.6	529.2	460.1	406.2	362.4	342.1
130°	1087.1	1078.7	992.7	841.0	696.1	574.7	490.5	426.4	377.5	337.1	318.5
132.5°	947.2	921.9	854.5	734.8	618.5	519.1	444.9	387.6	342.1	306.7	289.9
135°	795.5	777.0	724.7	632.0	542.7	460.1	396.1	345.5	305.1	273.0	259.6
137.5°	662.4	652.2	608.4	542.7	468.5	404.5	348.9	303.4	268.0	241.0	229.2
140°	546.1	539.3	509.0	456.7	401.1	350.6	303.4	264.6	234.3	210.7	200.6
142.5°	450.0	444.9	423.0	384.3	343.8	303.4	262.9	232.6	203.9	185.4	177.0
145°	374.2	370.8	353.9	327.0	293.3	262.9	230.9	203.9	180.3	163.5	156.7
147.5°	313.5	311.8	300.0	281.5	256.2	229.2	203.9	180.3	160.1	146.6	139.9
150°	268.0	266.3	259.6	242.7	224.2	203.9	182.0	163.5	144.9	133.1	128.1
152.5°	232.6	230.9	225.8	214.0	200.6	183.7	165.2	150.0	134.8	123.0	119.7
155°	205.6	203.9	200.6	192.1	180.3	166.9	151.7	138.2	124.7	116.3	112.9
157.5°	183.7	183.7	180.3	173.6	163.5	153.4	141.6	129.8	118.0	111.2	107.9
160°	166.9	166.9	163.5	156.7	151.7	141.6	131.5	121.3	112.9	107.9	104.5
162.5°	151.7	151.7	148.3	144.9	139.9	131.5	124.7	116.3	109.6	104.5	101.1
165°	139.9	139.9	138.2	134.8	129.8	124.7	118.0	111.2	104.5	101.1	99.4
167.5°	128.1	129.8	128.1	124.7	121.3	116.3	111.2	106.2	102.8	99.4	97.8
170°	119.7	119.7	118.0	116.3	114.6	109.6	107.9	104.5	99.4	97.8	96.1
172.5°	111.2	111.2	109.6	109.6	107.9	106.2	102.8	101.1	97.8	96.1	96.1
175°	104.5	104.5	102.8	102.8	102.8	99.4	99.4	97.8	96.1	96.1	94.4
177.5°	99.4	99.4	99.4	97.8	97.8	97.8	97.8	96.1	94.4	94.4	92.7
180°	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	748.3	748.3	748.3	748.3
2.5°	739.9	729.8	724.7	724.7
5°	728.1	711.2	701.1	697.8
7.5°	718.0	692.7	679.2	675.8
10°	704.5	675.8	657.3	650.6
12.5°	691.0	657.3	637.1	628.7
15°	675.8	640.5	616.9	608.4
17.5°	662.4	623.6	598.3	588.2
20°	647.2	606.7	579.8	569.7
22.5°	633.7	589.9	562.9	552.8
25°	618.5	573.0	546.1	536.0
27.5°	603.4	557.9	529.2	520.8
30°	586.5	541.0	514.0	505.6
32.5°	573.0	524.2	500.6	492.1
35°	556.2	509.0	485.4	478.7
37.5°	539.3	493.8	471.9	465.2
40°	520.8	478.7	458.4	453.4
42.5°	503.9	461.8	444.9	441.6
45°	485.4	444.9	431.5	428.1
47.5°	466.9	429.8	416.3	412.9
50°	446.6	412.9	399.4	396.1
52.5°	424.7	394.4	380.9	377.5
55°	404.5	375.8	362.4	360.7
57.5°	380.9	355.6	342.1	340.5
60°	357.3	333.7	321.9	320.2
62.5°	332.0	310.1	298.3	298.3
65°	306.7	286.5	274.7	274.7
67.5°	279.8	261.2	251.1	247.8
70°	252.8	234.3	220.8	219.1
72.5°	225.8	205.6	190.4	190.4
75°	193.8	173.6	161.8	161.8
77.5°	163.5	139.9	129.8	129.8
80°	128.1	102.8	89.3	75.8
82.5°	86.0	60.7	3.4	0.0
85°	43.8	3.4	0.0	0.0
87.5°	5.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	5.1	0.0	0.0	0.0
95°	64.0	5.1	1.7	0.0
97.5°	124.7	96.1	10.1	0.0
100°	175.3	156.7	160.1	160.1
102.5°	210.7	205.6	225.8	237.6
105°	237.6	242.7	273.0	289.9
107.5°	259.6	273.0	311.8	332.0
110°	279.8	294.9	342.1	365.7





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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
112.5°	296.6	310.1	364.0	391.0
115°	310.1	320.2	375.8	406.2
117.5°	318.5	327.0	380.9	411.2
120°	321.9	330.3	379.2	409.6
122.5°	318.5	327.0	370.8	399.4
125°	310.1	318.5	357.3	384.3
127.5°	296.6	305.1	340.5	362.4
130°	276.4	284.8	316.9	337.1
132.5°	254.5	262.9	291.6	306.7
135°	229.2	239.3	262.9	276.4
137.5°	203.9	214.0	234.3	246.1
140°	182.0	190.4	207.3	217.4
142.5°	161.8	170.2	183.7	192.1
145°	144.9	153.4	163.5	170.2
147.5°	131.5	139.9	148.3	153.4
150°	121.3	128.1	136.5	138.2
152.5°	114.6	119.7	124.7	128.1
155°	107.9	112.9	118.0	119.7
157.5°	102.8	107.9	109.6	112.9
160°	99.4	102.8	106.2	106.2
162.5°	97.8	99.4	101.1	102.8
165°	96.1	97.8	97.8	97.8
167.5°	94.4	94.4	94.4	94.4
170°	94.4	92.7	92.7	92.7
172.5°	92.7	92.7	91.0	92.7
175°	92.7	91.0	91.0	91.0
177.5°	92.7	92.7	92.7	92.7
180°	92.7	92.7	92.7	92.7

(END OF REPORT)