

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: P286902

Luminaire Tested: **DWI-WD-50L835-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P286902  
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-50L835-1D-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: 4982.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

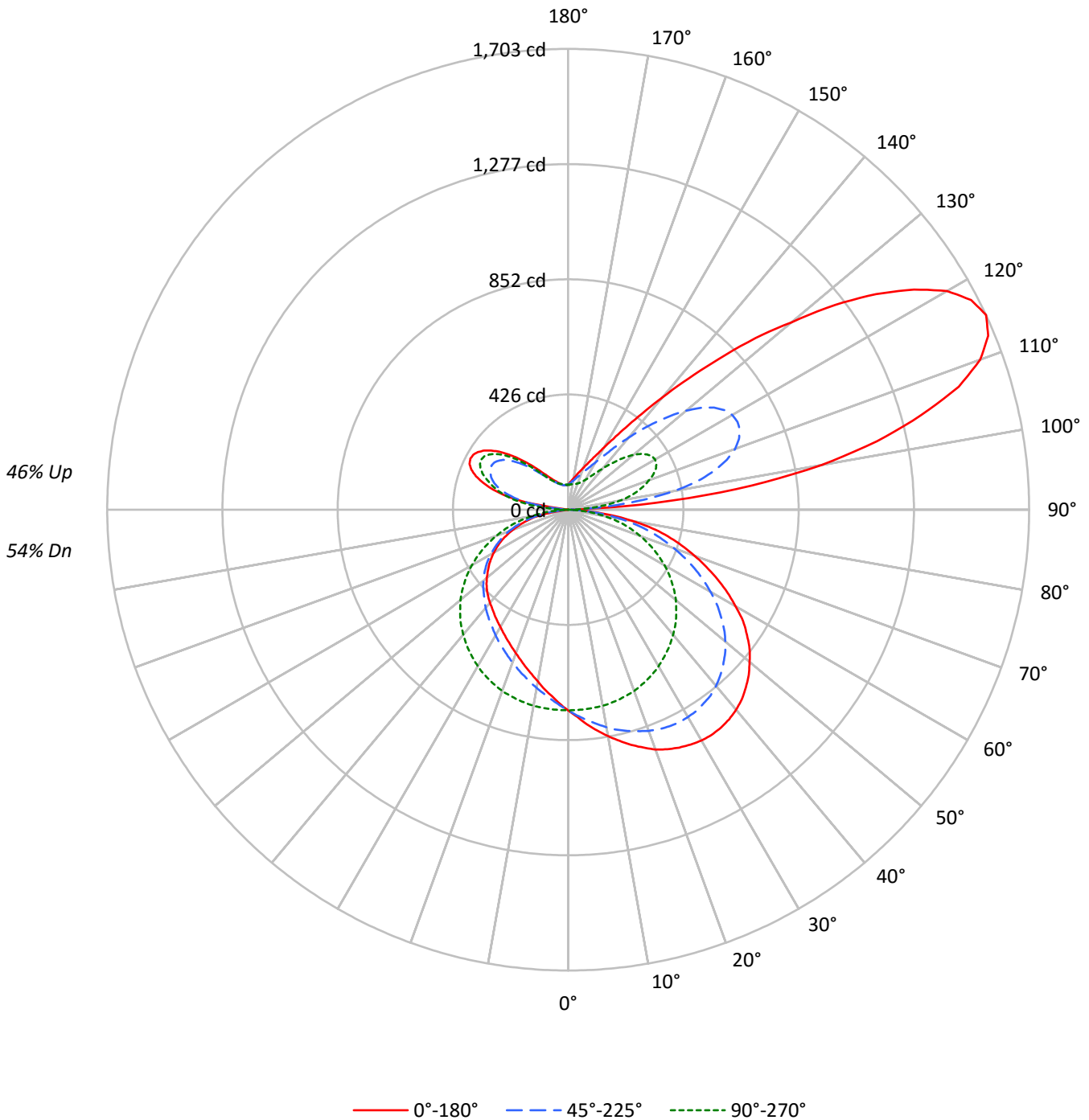
Input Watts (W): 41.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5663	5663	5663
5°	6107	5672	5301
10°	6592	5711	4999
15°	7117	5744	4767
20°	7669	5796	4588
25°	8176	5840	4475
30°	8689	5891	4418
35°	9170	5947	4422
40°	9624	6011	4479
45°	10028	6097	4582
50°	10397	6171	4663
55°	10741	6227	4759
60°	10917	6275	4847
65°	11016	6307	4919
70°	11075	6301	4847
75°	11284	6308	4732
80°	10796	6023	3304
85°	7757	4681	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	1.4
10°-20°	209.3	4.2
20°-30°	334.0	6.7
30°-40°	429.8	8.6
40°-50°	480.8	9.7
50°-60°	471.3	9.5
60°-70°	392.8	7.9
70°-80°	254.6	5.1
80°-90°	63.0	1.3
90°-100°	148.3	3.0
100°-110°	501.5	10.1
110°-120°	602.3	12.1
120°-130°	493.0	9.9
130°-140°	289.2	5.8
140°-150°	135.4	2.7
150°-160°	65.0	1.3
160°-170°	31.3	0.6
170°-180°	9.3	0.2
0°-30°	614.2	12.3
0°-40°	1044.0	21.0
0°-60°	1996.1	40.1
0°-90°	2706.5	54.3
90°-120°	1252.2	25.1
90°-150°	2169.9	43.6
90°-180°	2275.0	45.7
0°-180°	4982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	741	741	741	741	741	
5°	796	780	740	704	691	78
15°	900	846	726	634	603	256
25°	970	883	693	568	531	448
35°	983	873	638	504	474	616
45°	928	810	564	441	424	716
55°	806	690	468	372	357	719
65°	609	516	349	284	272	602
75°	382	314	214	172	160	399
85°	88	75	53	3	0	106
90°	15	10	0	0	0	19
95°	387	155	92	5	0	431
105°	1351	561	267	240	287	1403
115°	1703	700	357	317	402	1657
125°	1389	658	356	316	381	1237
135°	788	456	257	237	274	624
145°	371	260	155	152	169	244
155°	204	165	112	112	118	98
165°	139	124	98	97	97	40
175°	104	98	94	90	90	10
180°	92	92	92	92	92	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3
2.5°	766.3	768.0	768.0	766.3	764.6	761.3	758.0	752.9	749.6	744.6	741.3
5°	796.3	796.3	796.3	791.3	786.3	779.7	771.3	763.0	754.6	746.3	739.6
7.5°	823.1	824.7	821.4	816.4	808.0	798.0	786.3	773.0	759.6	744.6	737.9
10°	849.8	851.4	846.4	841.4	829.7	816.4	799.7	779.7	761.3	742.9	736.2
12.5°	874.8	876.5	871.5	864.8	851.4	833.1	811.4	786.3	763.0	742.9	731.2
15°	899.9	899.9	894.9	886.5	868.1	846.4	821.4	791.3	763.0	737.9	726.2
17.5°	921.6	919.9	914.9	903.2	883.2	858.1	828.1	793.0	761.3	732.9	719.6
20°	943.3	941.6	934.9	921.6	899.9	869.8	836.4	796.3	759.6	727.9	712.9
22.5°	958.3	956.6	949.9	934.9	911.5	878.2	839.8	794.7	754.6	721.2	702.9
25°	970.0	970.0	961.6	946.6	919.9	883.2	841.4	793.0	749.6	711.2	692.8
27.5°	978.3	978.3	970.0	953.3	924.9	886.5	839.8	789.7	741.3	701.2	681.2
30°	985.0	983.3	975.0	955.0	926.6	884.8	836.4	783.0	732.9	689.5	667.8
32.5°	986.7	985.0	975.0	955.0	923.2	881.5	831.4	774.6	721.2	676.1	652.8
35°	983.3	981.7	971.6	949.9	916.6	873.1	821.4	763.0	707.9	661.1	637.7
37.5°	976.7	976.7	965.0	943.3	909.9	864.8	811.4	751.3	694.5	644.4	621.1
40°	965.0	965.0	953.3	929.9	896.5	849.8	796.3	736.2	677.8	626.1	602.7
42.5°	949.9	948.3	934.9	911.5	876.5	831.4	778.0	716.2	659.5	606.0	584.3
45°	928.2	926.6	914.9	891.5	854.8	809.7	756.3	696.2	639.4	586.0	564.3
47.5°	904.9	903.2	889.8	866.5	831.4	786.3	732.9	674.5	617.7	566.0	540.9
50°	874.8	874.8	861.5	838.1	803.0	758.0	704.5	647.8	592.7	540.9	519.2
52.5°	844.8	841.4	828.1	803.0	769.6	726.2	674.5	619.4	566.0	515.9	494.2
55°	806.4	801.4	789.7	766.3	732.9	689.5	641.1	587.7	537.6	489.2	467.5
57.5°	766.3	761.3	746.3	722.9	691.2	651.1	604.4	554.3	507.5	460.8	440.7
60°	714.5	714.5	699.5	676.1	646.1	607.7	566.0	519.2	474.1	430.7	410.7
62.5°	662.8	664.5	649.4	626.1	597.7	562.6	524.2	480.8	439.1	400.7	380.6
65°	609.4	609.4	594.3	572.6	547.6	515.9	479.1	440.7	402.3	367.3	348.9
67.5°	552.6	552.6	540.9	517.5	494.2	465.8	434.1	400.7	365.6	332.2	315.5
70°	495.8	494.2	484.2	462.5	440.7	415.7	387.3	358.9	327.2	297.2	282.1
72.5°	439.1	437.4	429.1	407.4	389.0	365.6	342.2	315.5	288.8	262.1	248.8
75°	382.3	379.0	370.6	350.6	333.9	313.9	290.5	272.1	248.8	225.4	213.7
77.5°	318.9	317.2	308.9	288.8	275.5	258.8	240.4	223.7	207.0	185.3	177.0
80°	245.4	242.1	237.1	220.4	212.0	198.7	185.3	173.6	160.3	145.2	136.9
82.5°	163.6	161.9	160.3	151.9	143.6	136.9	128.6	120.2	111.9	100.2	96.8
85°	88.5	90.2	88.5	83.5	78.5	75.1	73.5	68.4	65.1	56.8	53.4
87.5°	26.7	28.4	28.4	28.4	28.4	28.4	28.4	25.0	23.4	20.0	16.7
90°	15.0	15.0	15.0	13.4	13.4	10.0	8.3	5.0	3.3	0.0	0.0
92.5°	78.5	81.8	85.1	76.8	60.1	45.1	40.1	41.7	38.4	36.7	31.7
95°	387.3	385.7	372.3	322.2	235.4	155.3	125.2	120.2	108.5	101.8	91.8
97.5°	684.5	679.5	647.8	554.3	430.7	278.8	210.4	190.3	172.0	160.3	146.9
100°	948.3	941.6	893.2	773.0	597.7	399.0	292.2	253.8	228.7	208.7	195.3
102.5°	1168.6	1162.0	1098.5	944.9	724.6	490.8	360.6	308.9	275.5	250.4	235.4
105°	1350.6	1345.6	1265.5	1080.2	821.4	561.0	414.0	352.3	313.9	282.1	267.1
107.5°	1512.6	1492.5	1389.0	1183.7	889.8	614.4	457.4	390.7	347.3	312.2	293.8
110°	1619.4	1599.4	1482.5	1250.5	933.2	656.1	497.5	424.1	377.3	337.2	317.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1679.5	1666.2	1535.9	1285.5	956.6	682.8	527.6	452.4	402.3	360.6	340.6
115°	1702.9	1684.5	1546.0	1283.8	958.3	699.5	550.9	475.8	424.1	375.6	357.3
117.5°	1677.8	1657.8	1515.9	1252.1	943.3	704.5	566.0	489.2	434.1	387.3	367.3
120°	1616.1	1592.7	1450.8	1198.7	914.9	699.5	572.6	495.8	440.7	392.3	370.6
122.5°	1514.2	1492.5	1355.6	1121.9	871.5	684.5	566.0	492.5	437.4	387.3	367.3
125°	1389.0	1365.6	1242.1	1035.1	818.1	657.8	550.9	479.1	424.1	377.3	355.6
127.5°	1243.8	1218.7	1118.6	936.6	754.6	617.7	524.2	455.8	402.3	358.9	338.9
130°	1076.8	1068.5	983.3	833.1	689.5	569.3	485.8	422.4	374.0	333.9	315.5
132.5°	938.3	913.2	846.4	727.9	612.7	514.2	440.7	384.0	338.9	303.8	287.2
135°	788.0	769.6	717.9	626.1	537.6	455.8	392.3	342.2	302.2	270.5	257.1
137.5°	656.1	646.1	602.7	537.6	464.1	400.7	345.6	300.5	265.4	238.7	227.1
140°	540.9	534.2	504.2	452.4	397.3	347.3	300.5	262.1	232.1	208.7	198.7
142.5°	445.8	440.7	419.0	380.6	340.6	300.5	260.4	230.4	202.0	183.6	175.3
145°	370.6	367.3	350.6	323.9	290.5	260.4	228.7	202.0	178.6	161.9	155.3
147.5°	310.5	308.9	297.2	278.8	253.8	227.1	202.0	178.6	158.6	145.2	138.6
150°	265.4	263.8	257.1	240.4	222.0	202.0	180.3	161.9	143.6	131.9	126.9
152.5°	230.4	228.7	223.7	212.0	198.7	182.0	163.6	148.6	133.6	121.9	118.5
155°	203.7	202.0	198.7	190.3	178.6	165.3	150.3	136.9	123.5	115.2	111.9
157.5°	182.0	182.0	178.6	172.0	161.9	151.9	140.2	128.6	116.9	110.2	106.8
160°	165.3	165.3	161.9	155.3	150.3	140.2	130.2	120.2	111.9	106.8	103.5
162.5°	150.3	150.3	146.9	143.6	138.6	130.2	123.5	115.2	108.5	103.5	100.2
165°	138.6	138.6	136.9	133.6	128.6	123.5	116.9	110.2	103.5	100.2	98.5
167.5°	126.9	128.6	126.9	123.5	120.2	115.2	110.2	105.2	101.8	98.5	96.8
170°	118.5	118.5	116.9	115.2	113.5	108.5	106.8	103.5	98.5	96.8	95.2
172.5°	110.2	110.2	108.5	108.5	106.8	105.2	101.8	100.2	96.8	95.2	95.2
175°	103.5	103.5	101.8	101.8	101.8	98.5	98.5	96.8	95.2	95.2	93.5
177.5°	98.5	98.5	98.5	96.8	96.8	96.8	96.8	95.2	93.5	93.5	91.8
180°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	741.3	741.3	741.3	741.3
2.5°	732.9	722.9	717.9	717.9
5°	721.2	704.5	694.5	691.2
7.5°	711.2	686.2	672.8	669.5
10°	697.8	669.5	651.1	644.4
12.5°	684.5	651.1	631.1	622.7
15°	669.5	634.4	611.0	602.7
17.5°	656.1	617.7	592.7	582.7
20°	641.1	601.0	574.3	564.3
22.5°	627.7	584.3	557.6	547.6
25°	612.7	567.6	540.9	530.9
27.5°	597.7	552.6	524.2	515.9
30°	581.0	535.9	509.2	500.8
32.5°	567.6	519.2	495.8	487.5
35°	550.9	504.2	480.8	474.1
37.5°	534.2	489.2	467.5	460.8
40°	515.9	474.1	454.1	449.1
42.5°	499.2	457.4	440.7	437.4
45°	480.8	440.7	427.4	424.1
47.5°	462.5	425.7	412.4	409.0
50°	442.4	409.0	395.7	392.3
52.5°	420.7	390.7	377.3	374.0
55°	400.7	372.3	358.9	357.3
57.5°	377.3	352.3	338.9	337.2
60°	353.9	330.6	318.9	317.2
62.5°	328.9	307.2	295.5	295.5
65°	303.8	283.8	272.1	272.1
67.5°	277.1	258.8	248.8	245.4
70°	250.4	232.1	218.7	217.0
72.5°	223.7	203.7	188.7	188.7
75°	192.0	172.0	160.3	160.3
77.5°	161.9	138.6	128.6	128.6
80°	126.9	101.8	88.5	75.1
82.5°	85.1	60.1	3.3	0.0
85°	43.4	3.3	0.0	0.0
87.5°	5.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	5.0	0.0	0.0	0.0
95°	63.4	5.0	1.7	0.0
97.5°	123.5	95.2	10.0	0.0
100°	173.6	155.3	158.6	158.6
102.5°	208.7	203.7	223.7	235.4
105°	235.4	240.4	270.5	287.2
107.5°	257.1	270.5	308.9	328.9
110°	277.1	292.2	338.9	362.3





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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
112.5°	293.8	307.2	360.6	387.3
115°	307.2	317.2	372.3	402.3
117.5°	315.5	323.9	377.3	407.4
120°	318.9	327.2	375.6	405.7
122.5°	315.5	323.9	367.3	395.7
125°	307.2	315.5	353.9	380.6
127.5°	293.8	302.2	337.2	358.9
130°	273.8	282.1	313.9	333.9
132.5°	252.1	260.4	288.8	303.8
135°	227.1	237.1	260.4	273.8
137.5°	202.0	212.0	232.1	243.7
140°	180.3	188.7	205.3	215.4
142.5°	160.3	168.6	182.0	190.3
145°	143.6	151.9	161.9	168.6
147.5°	130.2	138.6	146.9	151.9
150°	120.2	126.9	135.2	136.9
152.5°	113.5	118.5	123.5	126.9
155°	106.8	111.9	116.9	118.5
157.5°	101.8	106.8	108.5	111.9
160°	98.5	101.8	105.2	105.2
162.5°	96.8	98.5	100.2	101.8
165°	95.2	96.8	96.8	96.8
167.5°	93.5	93.5	93.5	93.5
170°	93.5	91.8	91.8	91.8
172.5°	91.8	91.8	90.2	91.8
175°	91.8	90.2	90.2	90.2
177.5°	91.8	91.8	91.8	91.8
180°	91.8	91.8	91.8	91.8

(END OF REPORT)