

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: P286896

Luminaire Tested: **DWI-WD-50L830-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286896
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-50L830-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM DIFFUSE OPTIC, ASYMMETRIC
Light Source: (154) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4744.7 lumens
Efficiency: N/A
Efficacy: 114.9 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

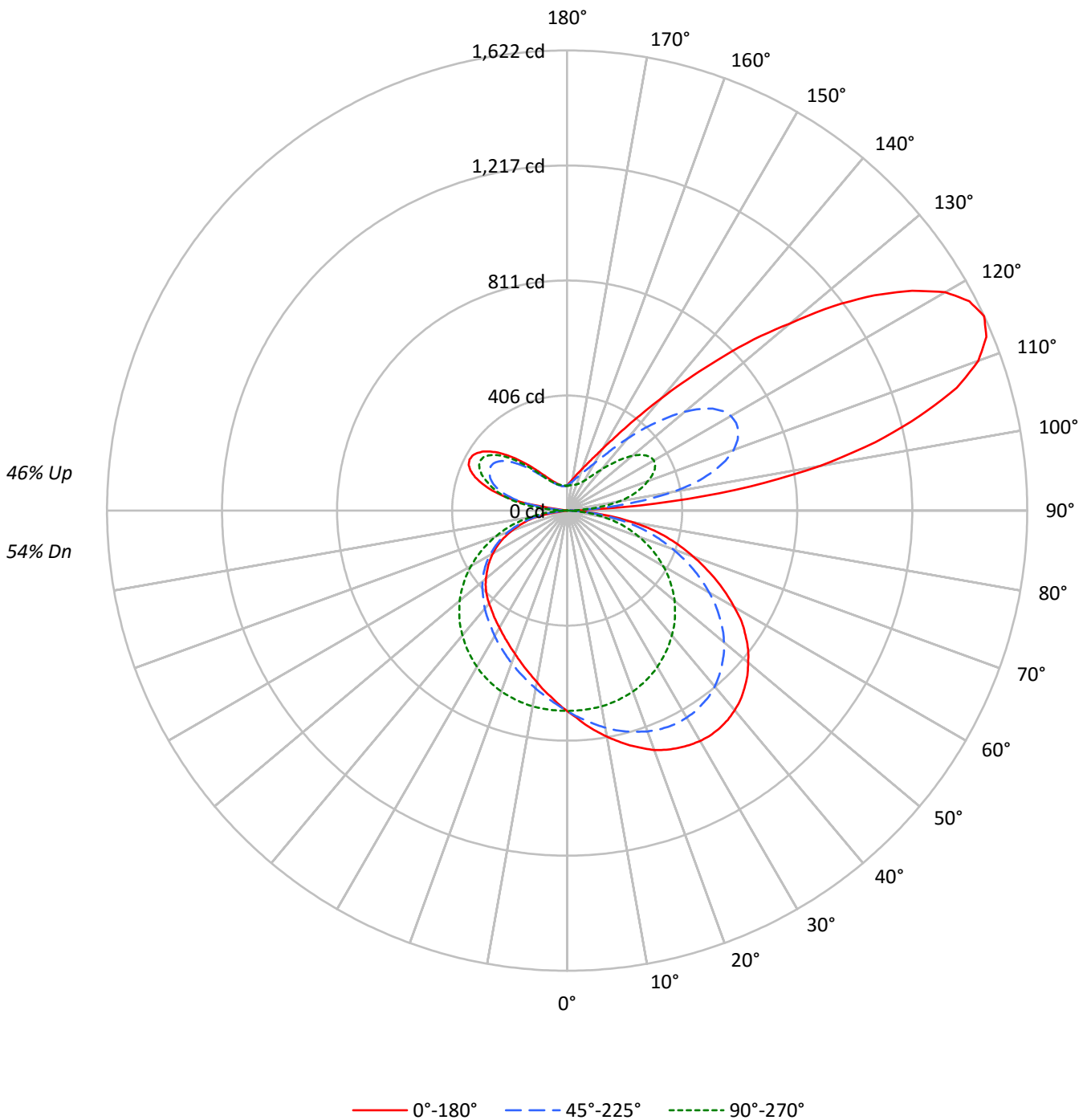
Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P286896

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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°	5394	5394	5394
5°	5816	5402	5048
10°	6278	5440	4761
15°	6778	5470	4540
20°	7303	5519	4369
25°	7787	5562	4262
30°	8275	5610	4208
35°	8734	5665	4212
40°	9165	5724	4265
45°	9551	5806	4364
50°	9903	5877	4440
55°	10229	5930	4533
60°	10398	5976	4616
65°	10490	6007	4686
70°	10547	6002	4617
75°	10747	6007	4504
80°	10282	5737	3146
85°	7389	4462	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.4
10°-20°	199.3	4.2
20°-30°	318.1	6.7
30°-40°	409.4	8.6
40°-50°	457.9	9.7
50°-60°	448.8	9.5
60°-70°	374.0	7.9
70°-80°	242.5	5.1
80°-90°	60.0	1.3
90°-100°	141.3	3.0
100°-110°	477.6	10.1
110°-120°	573.7	12.1
120°-130°	469.5	9.9
130°-140°	275.5	5.8
140°-150°	129.0	2.7
150°-160°	61.9	1.3
160°-170°	29.8	0.6
170°-180°	8.8	0.2
0°-30°	585.0	12.3
0°-40°	994.3	21.0
0°-60°	1901.1	40.1
0°-90°	2577.6	54.3
90°-120°	1192.6	25.1
90°-150°	2066.5	43.6
90°-180°	2167.0	45.7
0°-180°	4744.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	706	706	706	706	706	
5°	758	742	704	671	658	74
15°	857	806	692	604	574	244
25°	924	841	660	541	506	427
35°	936	832	607	480	452	586
45°	884	771	537	420	404	682
55°	768	657	445	355	340	685
65°	580	491	332	270	259	573
75°	364	299	204	164	153	380
85°	84	72	51	3	0	100
90°	14	10	0	0	0	18
95°	369	148	87	5	0	410
105°	1286	534	254	229	274	1336
115°	1622	666	340	302	383	1578
125°	1323	626	339	300	362	1178
135°	750	434	245	226	261	594
145°	353	248	148	145	161	232
155°	194	157	106	106	113	93
165°	132	118	94	92	92	38
175°	99	94	89	86	86	10
180°	87	87	87	87	87	



TEST NUMBER: P286896

CATALOG NUMBER: DWI-WD-50L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	729.8	731.4	731.4	729.8	728.2	725.0	721.9	717.1	713.9	709.1	706.0
5°	758.4	758.4	758.4	753.7	748.9	742.5	734.6	726.6	718.7	710.7	704.4
7.5°	783.9	785.5	782.3	777.5	769.6	760.0	748.9	736.2	723.4	709.1	702.8
10°	809.3	810.9	806.1	801.4	790.2	777.5	761.6	742.5	725.0	707.5	701.2
12.5°	833.2	834.7	830.0	823.6	810.9	793.4	772.7	748.9	726.6	707.5	696.4
15°	857.0	857.0	852.2	844.3	826.8	806.1	782.3	753.7	726.6	702.8	691.6
17.5°	877.7	876.1	871.3	860.2	841.1	817.3	788.6	755.2	725.0	698.0	685.3
20°	898.3	896.8	890.4	877.7	857.0	828.4	796.6	758.4	723.4	693.2	678.9
22.5°	912.7	911.1	904.7	890.4	868.1	836.3	799.8	756.8	718.7	686.9	669.4
25°	923.8	923.8	915.8	901.5	876.1	841.1	801.4	755.2	713.9	677.3	659.8
27.5°	931.7	931.7	923.8	907.9	880.9	844.3	799.8	752.1	706.0	667.8	648.7
30°	938.1	936.5	928.6	909.5	882.4	842.7	796.6	745.7	698.0	656.7	636.0
32.5°	939.7	938.1	928.6	909.5	879.3	839.5	791.8	737.8	686.9	643.9	621.7
35°	936.5	934.9	925.4	904.7	872.9	831.6	782.3	726.6	674.2	629.6	607.4
37.5°	930.1	930.1	919.0	898.3	866.5	823.6	772.7	715.5	661.4	613.7	591.5
40°	919.0	919.0	907.9	885.6	853.8	809.3	758.4	701.2	645.5	596.2	574.0
42.5°	904.7	903.1	890.4	868.1	834.7	791.8	740.9	682.1	628.0	577.2	556.5
45°	884.0	882.4	871.3	849.1	814.1	771.1	720.3	663.0	609.0	558.1	537.4
47.5°	861.8	860.2	847.5	825.2	791.8	748.9	698.0	642.4	588.3	539.0	515.2
50°	833.2	833.2	820.4	798.2	764.8	721.9	671.0	616.9	564.4	515.2	494.5
52.5°	804.5	801.4	788.6	764.8	733.0	691.6	642.4	589.9	539.0	491.3	470.6
55°	768.0	763.2	752.1	729.8	698.0	656.7	610.6	559.7	512.0	465.9	445.2
57.5°	729.8	725.0	710.7	688.5	658.3	620.1	575.6	527.9	483.4	438.8	419.8
60°	680.5	680.5	666.2	643.9	615.3	578.8	539.0	494.5	451.6	410.2	391.1
62.5°	631.2	632.8	618.5	596.2	569.2	535.8	499.3	457.9	418.2	381.6	362.5
65°	580.3	580.3	566.0	545.4	521.5	491.3	456.3	419.8	383.2	349.8	332.3
67.5°	526.3	526.3	515.2	492.9	470.6	443.6	413.4	381.6	348.2	316.4	300.5
70°	472.2	470.6	461.1	440.4	419.8	395.9	368.9	341.8	311.6	283.0	268.7
72.5°	418.2	416.6	408.6	388.0	370.5	348.2	325.9	300.5	275.1	249.6	236.9
75°	364.1	360.9	353.0	333.9	318.0	298.9	276.7	259.2	236.9	214.6	203.5
77.5°	303.7	302.1	294.1	275.1	262.3	246.4	229.0	213.1	197.2	176.5	168.5
80°	233.7	230.5	225.8	209.9	201.9	189.2	176.5	165.4	152.6	138.3	130.4
82.5°	155.8	154.2	152.6	144.7	136.7	130.4	122.4	114.5	106.5	95.4	92.2
85°	84.3	85.9	84.3	79.5	74.7	71.5	70.0	65.2	62.0	54.1	50.9
87.5°	25.4	27.0	27.0	27.0	27.0	27.0	27.0	23.8	22.3	19.1	15.9
90°	14.3	14.3	14.3	12.7	12.7	9.5	7.9	4.8	3.2	0.0	0.0
92.5°	74.7	77.9	81.1	73.1	57.2	42.9	38.2	39.7	36.6	35.0	30.2
95°	368.9	367.3	354.6	306.9	224.2	147.9	119.2	114.5	103.3	97.0	87.4
97.5°	651.9	647.1	616.9	527.9	410.2	265.5	200.3	181.3	163.8	152.6	139.9
100°	903.1	896.8	850.6	736.2	569.2	380.0	278.2	241.7	217.8	198.7	186.0
102.5°	1113.0	1106.6	1046.2	899.9	690.1	467.5	343.4	294.1	262.3	238.5	224.2
105°	1286.3	1281.5	1205.2	1028.7	782.3	534.2	394.3	335.5	298.9	268.7	254.4
107.5°	1440.5	1421.5	1322.9	1127.3	847.5	585.1	435.7	372.1	330.7	297.3	279.8
110°	1542.3	1523.2	1411.9	1190.9	888.8	624.9	473.8	403.9	359.3	321.2	302.1



TEST NUMBER: P286896

CATALOG NUMBER: DWI-WD-50L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1599.5	1586.8	1462.8	1224.3	911.1	650.3	502.4	430.9	383.2	343.4	324.4
115°	1621.8	1604.3	1472.3	1222.7	912.7	666.2	524.7	453.1	403.9	357.7	340.3
117.5°	1597.9	1578.9	1443.7	1192.5	898.3	671.0	539.0	465.9	413.4	368.9	349.8
120°	1539.1	1516.9	1381.7	1141.6	871.3	666.2	545.4	472.2	419.8	373.6	353.0
122.5°	1442.1	1421.5	1291.1	1068.5	830.0	651.9	539.0	469.0	416.6	368.9	349.8
125°	1322.9	1300.6	1183.0	985.8	779.1	626.5	524.7	456.3	403.9	359.3	338.7
127.5°	1184.5	1160.7	1065.3	892.0	718.7	588.3	499.3	434.1	383.2	341.8	322.8
130°	1025.5	1017.6	936.5	793.4	656.7	542.2	462.7	402.3	356.2	318.0	300.5
132.5°	893.6	869.7	806.1	693.2	583.5	489.7	419.8	365.7	322.8	289.4	273.5
135°	750.5	733.0	683.7	596.2	512.0	434.1	373.6	325.9	287.8	257.6	244.9
137.5°	624.9	615.3	574.0	512.0	442.0	381.6	329.1	286.2	252.8	227.4	216.2
140°	515.2	508.8	480.2	430.9	378.4	330.7	286.2	249.6	221.0	198.7	189.2
142.5°	424.5	419.8	399.1	362.5	324.4	286.2	248.0	219.4	192.4	174.9	166.9
145°	353.0	349.8	333.9	308.5	276.7	248.0	217.8	192.4	170.1	154.2	147.9
147.5°	295.7	294.1	283.0	265.5	241.7	216.2	192.4	170.1	151.0	138.3	132.0
150°	252.8	251.2	244.9	229.0	211.5	192.4	171.7	154.2	136.7	125.6	120.8
152.5°	219.4	217.8	213.1	201.9	189.2	173.3	155.8	141.5	127.2	116.1	112.9
155°	194.0	192.4	189.2	181.3	170.1	157.4	143.1	130.4	117.7	109.7	106.5
157.5°	173.3	173.3	170.1	163.8	154.2	144.7	133.6	122.4	111.3	104.9	101.8
160°	157.4	157.4	154.2	147.9	143.1	133.6	124.0	114.5	106.5	101.8	98.6
162.5°	143.1	143.1	139.9	136.7	132.0	124.0	117.7	109.7	103.3	98.6	95.4
165°	132.0	132.0	130.4	127.2	122.4	117.7	111.3	104.9	98.6	95.4	93.8
167.5°	120.8	122.4	120.8	117.7	114.5	109.7	104.9	100.2	97.0	93.8	92.2
170°	112.9	112.9	111.3	109.7	108.1	103.3	101.8	98.6	93.8	92.2	90.6
172.5°	104.9	104.9	103.3	103.3	101.8	100.2	97.0	95.4	92.2	90.6	90.6
175°	98.6	98.6	97.0	97.0	97.0	93.8	93.8	92.2	90.6	90.6	89.0
177.5°	93.8	93.8	93.8	92.2	92.2	92.2	92.2	90.6	89.0	89.0	87.4
180°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4



TEST NUMBER: P286896

CATALOG NUMBER: DWI-WD-50L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	706.0	706.0	706.0	706.0
2.5°	698.0	688.5	683.7	683.7
5°	686.9	671.0	661.4	658.3
7.5°	677.3	653.5	640.8	637.6
10°	664.6	637.6	620.1	613.7
12.5°	651.9	620.1	601.0	593.1
15°	637.6	604.2	581.9	574.0
17.5°	624.9	588.3	564.4	554.9
20°	610.6	572.4	547.0	537.4
22.5°	597.8	556.5	531.1	521.5
25°	583.5	540.6	515.2	505.6
27.5°	569.2	526.3	499.3	491.3
30°	553.3	510.4	484.9	477.0
32.5°	540.6	494.5	472.2	464.3
35°	524.7	480.2	457.9	451.6
37.5°	508.8	465.9	445.2	438.8
40°	491.3	451.6	432.5	427.7
42.5°	475.4	435.7	419.8	416.6
45°	457.9	419.8	407.0	403.9
47.5°	440.4	405.4	392.7	389.5
50°	421.3	389.5	376.8	373.6
52.5°	400.7	372.1	359.3	356.2
55°	381.6	354.6	341.8	340.3
57.5°	359.3	335.5	322.8	321.2
60°	337.1	314.8	303.7	302.1
62.5°	313.2	292.6	281.4	281.4
65°	289.4	270.3	259.2	259.2
67.5°	263.9	246.4	236.9	233.7
70°	238.5	221.0	208.3	206.7
72.5°	213.1	194.0	179.7	179.7
75°	182.8	163.8	152.6	152.6
77.5°	154.2	132.0	122.4	122.4
80°	120.8	97.0	84.3	71.5
82.5°	81.1	57.2	3.2	0.0
85°	41.3	3.2	0.0	0.0
87.5°	4.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	4.8	0.0	0.0	0.0
95°	60.4	4.8	1.6	0.0
97.5°	117.7	90.6	9.5	0.0
100°	165.4	147.9	151.0	151.0
102.5°	198.7	194.0	213.1	224.2
105°	224.2	229.0	257.6	273.5
107.5°	244.9	257.6	294.1	313.2
110°	263.9	278.2	322.8	345.0



TEST NUMBER: P286896

CATALOG NUMBER: DWI-WD-50L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	279.8	292.6	343.4	368.9
115°	292.6	302.1	354.6	383.2
117.5°	300.5	308.5	359.3	388.0
120°	303.7	311.6	357.7	386.4
122.5°	300.5	308.5	349.8	376.8
125°	292.6	300.5	337.1	362.5
127.5°	279.8	287.8	321.2	341.8
130°	260.8	268.7	298.9	318.0
132.5°	240.1	248.0	275.1	289.4
135°	216.2	225.8	248.0	260.8
137.5°	192.4	201.9	221.0	232.1
140°	171.7	179.7	195.6	205.1
142.5°	152.6	160.6	173.3	181.3
145°	136.7	144.7	154.2	160.6
147.5°	124.0	132.0	139.9	144.7
150°	114.5	120.8	128.8	130.4
152.5°	108.1	112.9	117.7	120.8
155°	101.8	106.5	111.3	112.9
157.5°	97.0	101.8	103.3	106.5
160°	93.8	97.0	100.2	100.2
162.5°	92.2	93.8	95.4	97.0
165°	90.6	92.2	92.2	92.2
167.5°	89.0	89.0	89.0	89.0
170°	89.0	87.4	87.4	87.4
172.5°	87.4	87.4	85.9	87.4
175°	87.4	85.9	85.9	85.9
177.5°	87.4	87.4	87.4	87.4
180°	87.4	87.4	87.4	87.4

(END OF REPORT)