

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: P286859

Luminaire Tested: **DWI-WA-40L830-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286859
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-40L830-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763.8 lumens
Efficiency: N/A
Efficacy: 118.4 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

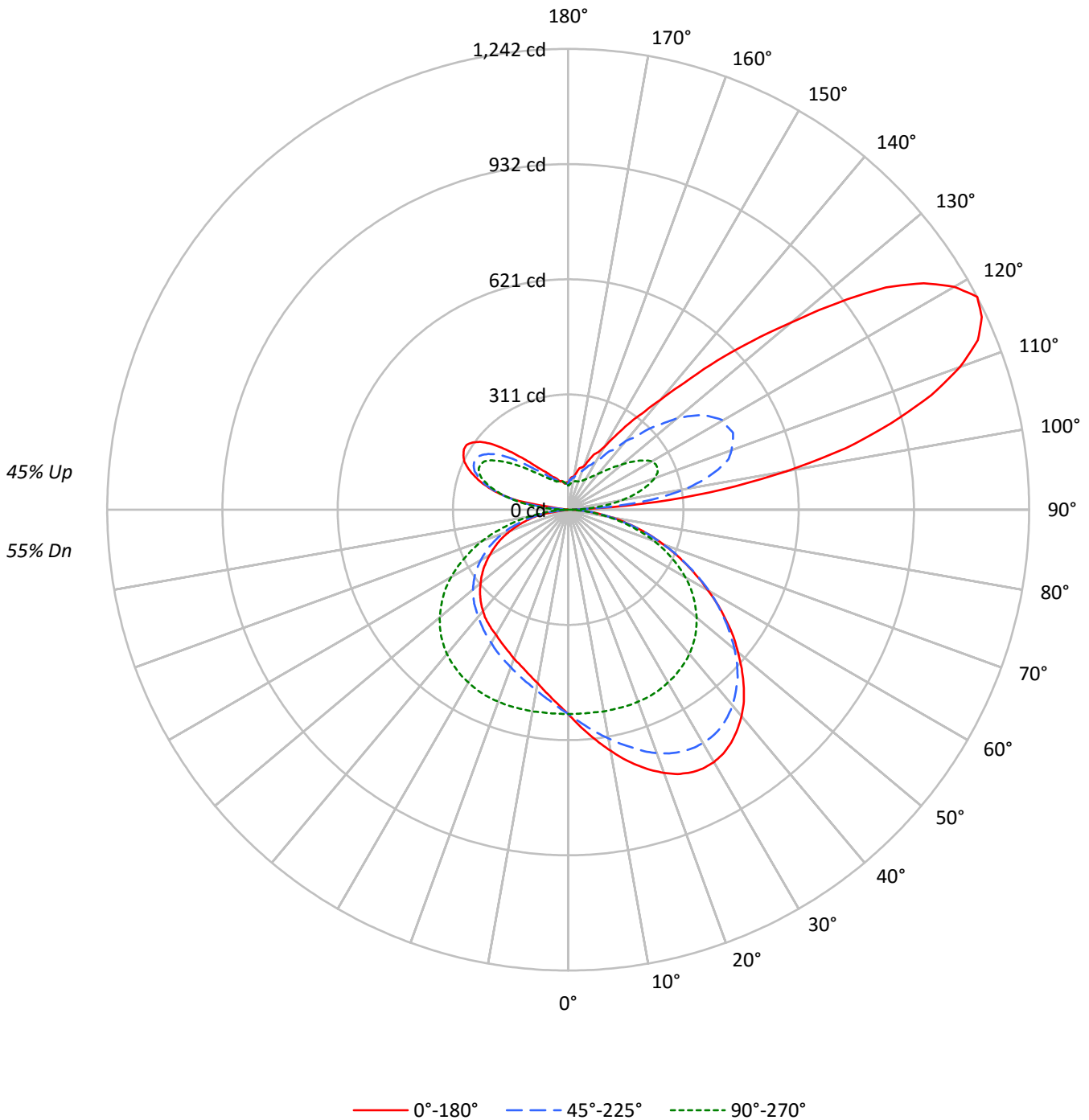
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P286859

CATALOG NUMBER: DWI-WA-40L830-1D-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P286859

CATALOG NUMBER: DWI-WA-40L830-1D-UNV-STD-W-WM-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	4206	4206	4206
5°	4636	4222	3907
10°	5118	4281	3684
15°	5634	4365	3542
20°	6135	4476	3475
25°	6588	4608	3429
30°	6928	4743	3431
35°	7146	4895	3495
40°	7244	5068	3558
45°	7224	5227	3619
50°	7093	5370	3661
55°	6923	5488	3709
60°	6648	5569	3725
65°	6379	5568	3758
70°	6078	5504	3670
75°	5720	5189	3524
80°	5253	4628	3220
85°	4611	3822	0



TEST NUMBER: P286859

CATALOG NUMBER: DWI-WA-40L830-1D-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.4
10°-20°	161.0	4.3
20°-30°	264.9	7.0
30°-40°	345.9	9.2
40°-50°	383.3	10.2
50°-60°	364.3	9.7
60°-70°	291.4	7.7
70°-80°	175.4	4.7
80°-90°	43.6	1.2
90°-100°	111.0	2.9
100°-110°	370.5	9.8
110°-120°	450.5	12.0
120°-130°	360.6	9.6
130°-140°	204.2	5.4
140°-150°	99.9	2.7
150°-160°	51.5	1.4
160°-170°	25.3	0.7
170°-180°	7.4	0.2
0°-30°	479.0	12.7
0°-40°	824.8	21.9
0°-60°	1572.4	41.8
0°-90°	2082.9	55.3
90°-120°	932.0	24.8
90°-150°	1596.7	42.4
90°-180°	1681.0	44.7
0°-180°	3763.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	551	551	551	551	551	
5°	604	588	551	520	510	59
15°	712	664	552	472	448	203
25°	782	720	547	434	407	360
35°	766	717	525	397	375	478
45°	669	646	484	358	335	515
55°	520	515	412	307	278	464
65°	353	356	308	234	208	350
75°	194	191	176	136	119	205
85°	53	50	44	4	0	56
90°	13	9	0	0	0	12
95°	239	155	77	8	0	265
105°	901	418	205	212	216	938
115°	1230	490	266	281	309	1198
125°	1045	445	230	262	316	921
135°	568	309	155	180	222	448
145°	281	192	108	118	136	180
155°	164	131	86	90	98	75
165°	116	98	80	77	78	32
175°	86	80	71	72	73	8
180°	66	66	66	66	66	



TEST NUMBER: P286859

CATALOG NUMBER: DWI-WA-40L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6
2.5°	577.5	577.5	576.2	575.0	572.4	568.5	564.7	560.8	557.0	553.1	550.6
5°	604.5	604.5	601.9	599.3	594.2	587.8	580.1	573.7	563.4	555.7	550.6
7.5°	632.7	632.7	628.9	623.7	617.3	607.0	596.8	585.2	569.8	558.3	550.6
10°	659.7	659.7	655.8	650.7	640.4	626.3	612.2	595.5	577.5	560.8	551.9
12.5°	687.9	687.9	681.5	675.1	662.2	645.5	627.6	605.8	585.2	562.1	551.9
15°	712.3	712.3	707.1	699.4	684.0	663.5	641.7	614.7	590.4	564.7	551.9
17.5°	735.4	735.4	730.2	720.0	704.6	682.8	655.8	623.7	595.5	566.0	551.9
20°	754.6	754.6	749.5	739.2	722.5	698.2	667.4	634.0	599.3	567.3	550.6
22.5°	771.3	770.0	764.9	753.4	736.7	711.0	678.9	639.1	603.2	567.3	549.3
25°	781.6	780.3	775.2	764.9	745.6	720.0	685.3	643.0	604.5	567.3	546.7
27.5°	786.7	785.4	781.6	770.0	752.1	725.1	690.5	646.8	604.5	566.0	542.9
30°	785.4	785.4	780.3	771.3	753.4	726.4	691.7	646.8	603.2	562.1	537.7
32.5°	779.0	777.7	773.9	766.2	749.5	723.8	690.5	644.3	600.6	557.0	532.6
35°	766.2	766.2	763.6	755.9	741.8	717.4	682.8	637.8	594.2	549.3	524.9
37.5°	748.2	748.2	746.9	740.5	727.7	704.6	672.5	630.1	585.2	541.6	517.2
40°	726.4	727.7	725.1	720.0	709.7	689.2	659.7	618.6	575.0	531.3	508.2
42.5°	700.7	700.7	698.2	695.6	686.6	667.4	641.7	603.2	562.1	518.5	496.7
45°	668.6	668.6	667.4	666.1	658.4	645.5	621.2	585.2	546.7	504.4	483.8
47.5°	634.0	635.3	634.0	634.0	628.9	617.3	595.5	562.1	528.8	489.0	468.4
50°	596.8	599.3	598.1	599.3	594.2	585.2	567.3	539.0	508.2	471.0	451.8
52.5°	560.8	559.6	558.3	560.8	558.3	550.6	535.2	513.4	483.8	450.5	432.5
55°	519.8	518.5	519.8	522.3	519.8	514.6	503.1	482.6	458.2	428.7	412.0
57.5°	478.7	477.4	478.7	481.3	480.0	477.4	467.2	450.5	431.2	404.3	390.2
60°	435.1	436.4	437.6	438.9	441.5	438.9	428.7	417.1	401.7	378.6	364.5
62.5°	394.0	394.0	396.6	397.9	399.1	396.6	391.4	381.2	370.9	350.4	337.5
65°	352.9	352.9	354.2	355.5	358.1	355.5	351.6	345.2	336.2	319.6	308.0
67.5°	313.1	311.9	313.1	315.7	314.4	314.4	309.3	308.0	300.3	287.5	278.5
70°	272.1	270.8	272.1	272.1	273.4	272.1	270.8	269.5	263.1	256.7	246.4
72.5°	233.6	231.0	232.3	233.6	232.3	232.3	229.7	229.7	225.9	220.7	211.8
75°	193.8	192.5	192.5	192.5	192.5	191.2	187.4	189.9	188.7	184.8	175.8
77.5°	155.3	155.3	156.6	154.0	155.3	151.4	152.7	150.2	151.4	147.6	141.2
80°	119.4	118.1	118.1	118.1	118.1	115.5	114.2	112.9	115.5	111.7	105.2
82.5°	82.1	83.4	82.1	80.9	82.1	82.1	80.9	78.3	79.6	75.7	71.9
85°	52.6	52.6	52.6	50.1	50.1	50.1	51.3	50.1	48.8	46.2	43.6
87.5°	24.4	25.7	25.7	25.7	25.7	24.4	24.4	23.1	21.8	20.5	19.3
90°	12.8	12.8	11.6	11.6	10.3	9.0	7.7	5.1	3.9	1.3	0.0
92.5°	38.5	30.8	39.8	42.4	42.4	42.4	37.2	34.7	35.9	35.9	37.2
95°	238.7	228.4	236.1	225.9	198.9	155.3	104.0	83.4	79.6	75.7	77.0
97.5°	419.7	409.4	413.3	390.2	336.2	247.7	163.0	127.1	120.6	112.9	112.9
100°	596.8	589.1	580.1	546.7	458.2	320.8	211.8	166.8	159.1	148.9	146.3
102.5°	766.2	753.4	734.1	675.1	558.3	374.7	251.5	201.5	195.1	181.0	177.1
105°	900.9	889.4	868.9	777.7	627.6	418.4	282.3	233.6	227.2	209.2	205.3
107.5°	1025.4	1019.0	967.7	867.6	675.1	453.0	313.1	264.4	252.8	234.9	228.4
110°	1123.0	1112.7	1061.4	927.9	708.4	468.4	342.7	292.6	270.8	255.4	247.7



TEST NUMBER: P286859

CATALOG NUMBER: DWI-WA-40L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1194.8	1187.1	1110.1	956.1	709.7	480.0	359.3	310.6	282.3	269.5	260.5
115°	1229.5	1217.9	1140.9	960.0	704.6	490.3	370.9	318.3	291.3	278.5	265.7
117.5°	1242.3	1229.5	1124.2	933.0	678.9	483.8	383.7	324.7	295.2	279.8	265.7
120°	1201.3	1189.7	1085.7	886.8	655.8	482.6	381.2	331.1	296.5	275.9	260.5
122.5°	1135.8	1121.7	1020.3	830.4	612.2	463.3	370.9	320.8	290.0	264.4	247.7
125°	1044.7	1031.8	917.6	748.2	577.5	445.3	363.2	302.9	272.1	246.4	229.7
127.5°	916.3	908.6	816.2	676.3	521.1	414.5	335.0	287.5	247.7	227.2	210.5
130°	785.4	780.3	717.4	599.3	476.1	383.7	314.4	268.2	223.3	205.3	189.9
132.5°	672.5	668.6	607.0	513.4	421.0	341.4	282.3	236.1	205.3	183.5	172.0
135°	568.5	567.3	510.8	445.3	367.0	309.3	250.3	213.0	188.7	164.3	155.3
137.5°	464.6	464.6	435.1	382.5	326.0	264.4	228.4	197.6	170.7	147.6	138.6
140°	386.3	381.2	365.8	315.7	273.4	241.3	196.4	172.0	150.2	133.5	127.1
142.5°	327.3	322.1	296.5	272.1	240.0	204.1	186.1	154.0	133.5	120.6	116.8
145°	281.1	279.8	252.8	243.8	215.6	192.5	159.1	147.6	124.5	110.4	107.8
147.5°	233.6	233.6	227.2	204.1	182.2	164.3	152.7	129.6	119.4	102.7	100.1
150°	196.4	196.4	197.6	181.0	172.0	157.9	136.0	119.4	112.9	97.5	95.0
152.5°	174.5	175.8	166.8	170.7	151.4	137.3	125.8	118.1	102.7	92.4	89.8
155°	164.3	165.6	152.7	146.3	136.0	130.9	121.9	106.5	95.0	89.8	86.0
157.5°	142.5	145.0	146.3	130.9	133.5	119.4	106.5	97.5	91.1	88.6	82.1
160°	124.5	125.8	127.1	129.6	114.2	111.7	109.1	100.1	92.4	87.3	80.9
162.5°	119.4	118.1	114.2	114.2	111.7	106.5	95.0	93.7	91.1	86.0	79.6
165°	115.5	116.8	112.9	101.4	104.0	97.5	96.3	84.7	84.7	83.4	79.6
167.5°	101.4	102.7	104.0	102.7	92.4	95.0	88.6	87.3	79.6	82.1	78.3
170°	89.8	91.1	89.8	92.4	95.0	87.3	84.7	86.0	78.3	80.9	77.0
172.5°	89.8	88.6	87.3	83.4	82.1	87.3	84.7	78.3	79.6	78.3	74.4
175°	86.0	87.3	87.3	86.0	83.4	79.6	77.0	78.3	79.6	74.4	70.6
177.5°	78.3	79.6	78.3	79.6	79.6	80.9	80.9	79.6	74.4	69.3	66.7
180°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5



TEST NUMBER: P286859

CATALOG NUMBER: DWI-WA-40L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	550.6	550.6	550.6	550.6
2.5°	542.9	535.2	530.0	528.8
5°	533.9	519.8	512.1	509.5
7.5°	526.2	506.9	495.4	491.5
10°	518.5	494.1	480.0	474.9
12.5°	509.5	482.6	465.9	460.7
15°	503.1	472.3	454.3	447.9
17.5°	495.4	462.0	442.8	436.4
20°	487.7	451.8	432.5	427.4
22.5°	481.3	442.8	423.5	415.8
25°	473.6	433.8	413.3	406.8
27.5°	465.9	424.8	404.3	397.9
30°	458.2	414.5	395.3	388.9
32.5°	449.2	405.6	387.6	382.5
35°	441.5	396.6	379.9	374.7
37.5°	432.5	386.3	370.9	367.0
40°	422.2	377.3	361.9	356.8
42.5°	412.0	367.0	352.9	346.5
45°	400.4	358.1	342.7	335.0
47.5°	388.9	346.5	329.8	322.1
50°	374.7	335.0	315.7	308.0
52.5°	359.3	320.8	301.6	293.9
55°	343.9	306.7	286.2	278.5
57.5°	327.3	290.0	269.5	261.8
60°	308.0	272.1	252.8	243.8
62.5°	287.5	252.8	233.6	225.9
65°	266.9	233.6	214.3	207.9
67.5°	245.1	210.5	192.5	187.4
70°	218.2	187.4	169.4	164.3
72.5°	189.9	164.3	145.0	142.5
75°	161.7	136.0	121.9	119.4
77.5°	132.2	107.8	98.8	97.5
80°	101.4	80.9	74.4	73.2
82.5°	69.3	53.9	6.4	0.0
85°	38.5	3.9	1.3	0.0
87.5°	3.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	9.0	1.3	0.0	0.0
95°	68.0	7.7	1.3	0.0
97.5°	114.2	100.1	37.2	0.0
100°	151.4	143.7	139.9	134.8
102.5°	179.7	179.7	182.2	181.0
105°	202.8	211.8	214.3	215.6
107.5°	224.6	238.7	243.8	246.4
110°	242.6	256.7	269.5	270.8



TEST NUMBER: P286859

CATALOG NUMBER: DWI-WA-40L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	251.5	273.4	287.5	292.6
115°	255.4	281.1	302.9	309.3
117.5°	255.4	284.9	311.9	318.3
120°	252.8	283.6	314.4	324.7
122.5°	242.6	274.6	313.1	324.7
125°	225.9	261.8	301.6	315.7
127.5°	209.2	245.1	283.6	300.3
130°	192.5	224.6	264.4	278.5
132.5°	172.0	202.8	237.4	250.3
135°	154.0	179.7	210.5	222.0
137.5°	141.2	161.7	186.1	195.1
140°	128.3	143.7	165.6	172.0
142.5°	114.2	132.2	145.0	151.4
145°	106.5	118.1	132.2	136.0
147.5°	101.4	111.7	121.9	124.5
150°	93.7	101.4	110.4	115.5
152.5°	88.6	98.8	104.0	105.2
155°	87.3	89.8	98.8	97.5
157.5°	84.7	88.6	89.8	93.7
160°	78.3	82.1	86.0	88.6
162.5°	77.0	82.1	84.7	82.1
165°	78.3	77.0	78.3	78.3
167.5°	74.4	77.0	74.4	79.6
170°	71.9	71.9	75.7	74.4
172.5°	74.4	74.4	70.6	70.6
175°	74.4	71.9	70.6	73.2
177.5°	64.2	70.6	73.2	74.4
180°	65.5	65.5	65.5	65.5

(END OF REPORT)