

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: LUMARK

Report Number: P144224

Luminaire Tested: **LDRL-5XQ-F01-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144224  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-5XQ-F01-E-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (7) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2331.5 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 25.9  
Input Voltage (V): NR  
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

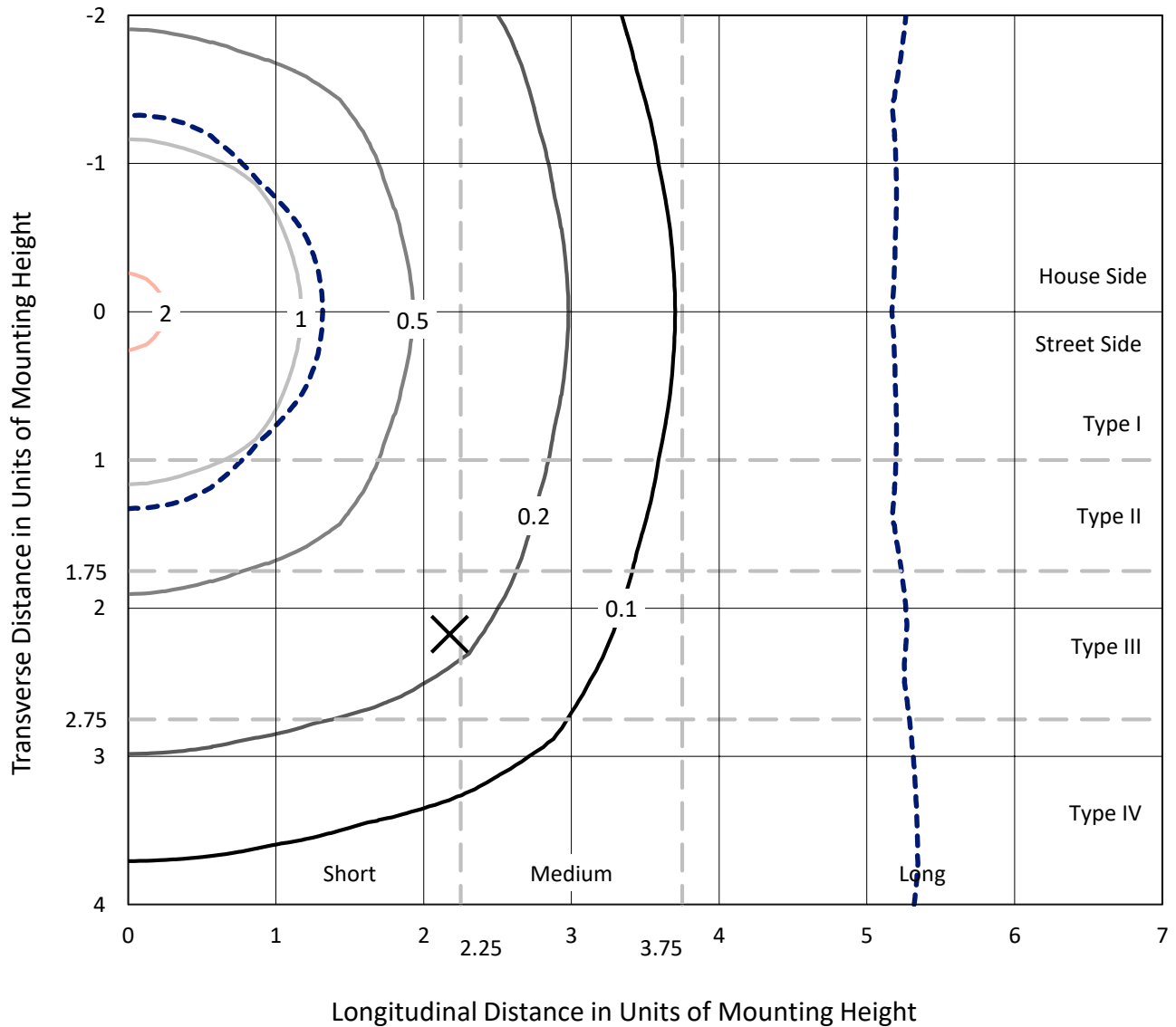


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

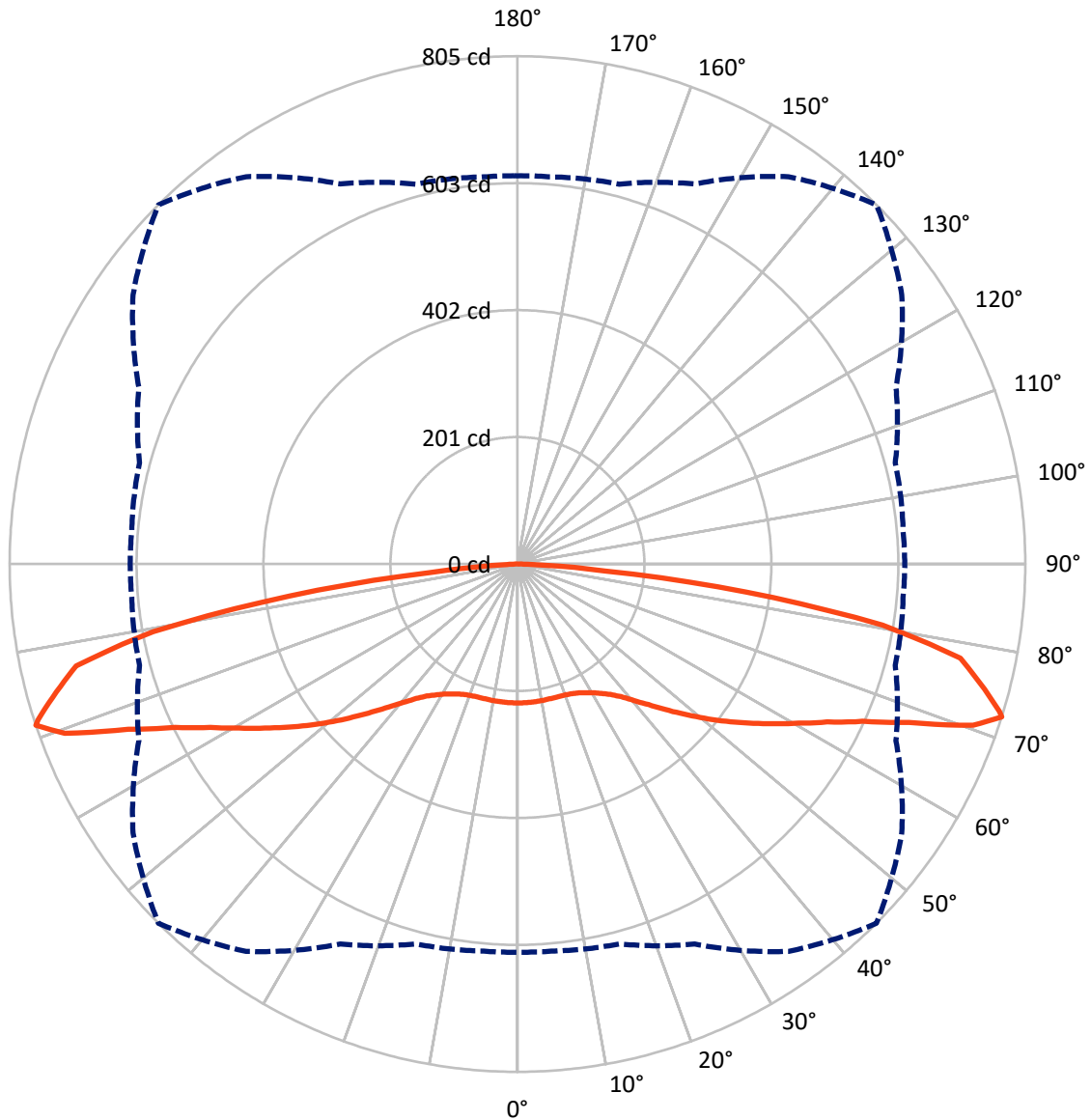


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1165.7	0.0	1165.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1165.7	0.0	1165.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2331.5	0.0	2331.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.0	0.9
10°-20°	62.4	2.7
20°-30°	104.9	4.5
30°-40°	159.6	6.8
40°-50°	252.3	10.8
50°-60°	385.3	16.5
60°-70°	564.5	24.2
70°-80°	641.3	27.5
80°-90°	140.1	6.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2331.5	100.0
0°-180°	2331.5	100.0



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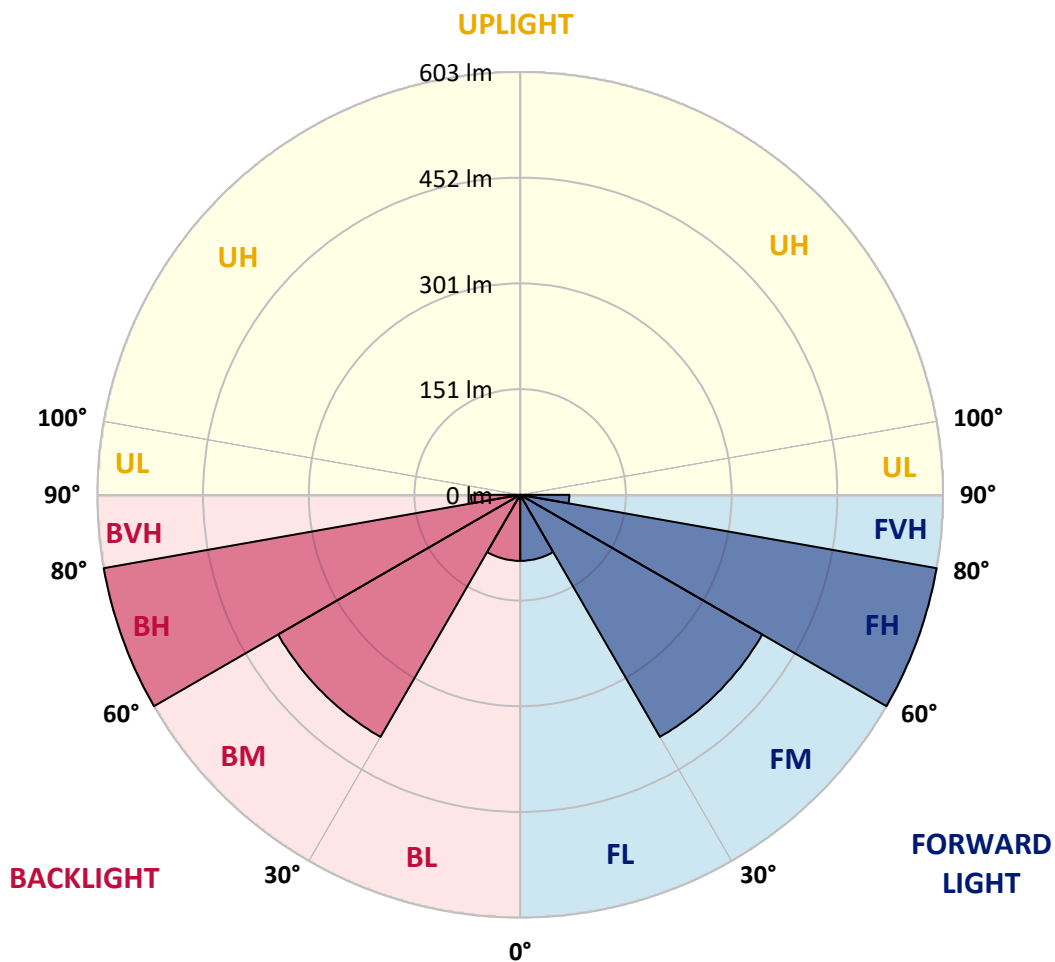
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	94.1	4.0			
FM (30°-60°)	398.6	17.1			
FH (60°-80°)	602.9	25.9			G0/660
FVH (80°-90°)	70.0	3.0			G1/100
BL (0°-30°)	94.1	4.0	B0/110		
BM (30°-60°)	398.6	17.1	B1/1000		
BH (60°-80°)	602.9	25.9	B2/1000		G0/660
BVH (80°-90°)	70.0	3.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	220.2	220.2	220.2	220.2	220.2	220.2	220.2	220.2	220.2	220.2	220.2
2.5°	220.6	220.6	220.4	220.2	220.2	220.1	220.1	220.1	220.0	220.0	220.0
5°	220.6	220.6	220.4	220.4	220.2	220.1	220.1	220.1	220.1	220.0	220.1
7.5°	220.4	220.4	220.3	220.2	220.1	220.1	220.1	220.0	220.0	219.8	219.9
10°	220.4	220.7	220.5	220.2	220.2	220.1	220.0	219.8	219.8	219.8	219.6
12.5°	220.6	220.8	220.6	220.4	220.2	220.1	220.0	219.8	219.7	219.6	219.5
15°	221.0	221.2	221.0	220.8	220.6	220.4	220.2	220.0	219.8	219.6	219.5
17.5°	221.3	221.7	221.4	221.2	220.9	220.6	220.5	220.3	220.2	220.0	219.8
20°	221.8	222.2	222.0	221.8	221.6	221.4	221.3	221.2	221.1	221.0	220.7
22.5°	222.8	223.1	223.0	223.0	223.0	223.0	223.1	223.1	223.0	223.0	222.7
25°	224.8	224.8	225.0	225.2	225.4	225.6	225.8	226.0	226.1	226.2	225.8
27.5°	228.4	228.7	228.8	228.9	229.3	229.6	230.1	230.5	230.7	231.0	230.6
30°	233.0	233.0	233.3	233.6	234.2	234.8	235.3	235.8	236.2	236.6	236.4
32.5°	238.8	239.2	239.6	240.0	240.8	241.6	242.5	243.4	243.9	244.4	244.0
35°	247.8	248.3	248.7	249.0	249.9	250.7	251.7	252.8	253.2	253.6	253.4
37.5°	260.5	260.5	261.0	261.6	262.1	262.6	264.0	265.3	265.9	266.4	266.0
40°	277.6	277.7	277.8	277.9	278.4	278.9	280.6	282.2	283.2	284.2	283.2
42.5°	297.3	298.1	298.1	298.0	298.4	298.7	300.3	301.9	303.3	304.7	304.1
45°	320.5	320.4	320.1	319.8	320.8	321.8	324.1	326.4	327.6	328.8	327.6
47.5°	344.0	343.8	343.3	342.9	343.9	345.0	348.4	351.8	353.5	355.3	353.4
50°	367.4	368.2	367.7	367.2	368.7	370.2	374.5	378.8	381.4	384.0	381.8
52.5°	393.2	393.9	393.3	392.7	394.8	396.8	401.9	407.0	410.5	414.0	411.0
55°	420.0	419.2	419.5	419.8	421.8	423.8	430.0	436.2	440.4	444.6	441.2
57.5°	445.0	445.3	445.0	444.6	447.7	450.8	458.7	466.6	471.8	477.0	472.8
60°	470.6	470.7	470.0	469.2	472.6	475.9	487.2	498.6	505.3	512.0	506.3
62.5°	499.3	499.2	497.9	496.6	500.6	504.5	518.5	532.6	541.8	551.1	544.2
65°	534.4	533.5	532.8	532.0	536.6	541.2	558.6	576.0	588.5	601.0	592.1
67.5°	586.2	585.6	584.0	582.4	587.5	592.6	614.9	637.2	653.4	669.6	657.8
70°	643.2	642.0	643.0	644.2	655.9	667.6	697.6	727.6	746.7	765.8	746.0
72°	615.1	615.6	619.3	623.0	643.6	664.2	706.7	749.2	777.0	804.6	774.0
72.5°	605.3	605.8	609.9	614.0	633.7	653.4	697.2	741.1	769.8	798.5	767.0
75°	563.7	564.9	569.7	574.5	594.4	614.3	658.6	702.8	730.3	757.8	726.2
77.5°	495.8	499.5	504.4	509.2	533.0	556.8	606.7	656.7	687.0	717.4	681.6
80°	378.4	377.0	385.4	393.8	416.4	439.1	477.8	516.5	551.4	586.4	546.1
82.5°	147.0	150.2	167.6	185.0	208.8	232.6	267.2	301.8	333.3	364.8	331.3
85°	15.2	17.2	23.5	29.7	42.7	55.6	76.8	97.8	118.6	139.2	116.8
87.5°	6.1	6.7	8.6	10.6	11.1	11.6	14.0	16.4	16.2	16.2	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	220.2	220.2	220.2	220.2	220.2	220.2	220.2	220.2
2.5°	220.1	220.2	220.2	220.2	220.2	220.4	220.5	220.3
5°	220.2	220.2	220.2	220.2	220.2	220.4	220.5	220.3
7.5°	220.0	220.0	220.0	220.0	220.2	220.2	220.2	220.2
10°	219.6	219.6	219.6	219.8	219.9	220.0	220.1	220.2
12.5°	219.4	219.4	219.4	219.5	219.6	219.8	219.9	220.0
15°	219.4	219.4	219.4	219.5	219.6	219.7	219.8	220.0
17.5°	219.6	219.6	219.5	219.6	219.6	219.8	220.0	220.2
20°	220.4	220.4	220.2	220.2	220.2	220.4	220.6	220.6
22.5°	222.4	222.0	221.7	221.6	221.6	221.6	221.6	221.7
25°	225.5	224.9	224.3	224.1	224.0	223.9	223.8	223.9
27.5°	230.3	229.6	228.9	228.5	228.1	227.9	227.6	227.7
30°	236.2	235.4	234.6	233.9	233.2	232.9	232.6	232.7
32.5°	243.6	242.7	241.8	240.8	239.9	239.5	239.1	239.2
35°	253.2	252.0	251.0	250.2	249.4	248.8	248.2	248.7
37.5°	265.6	264.5	263.5	263.0	262.6	262.0	261.4	261.5
40°	282.3	281.2	280.2	279.8	279.4	278.6	277.9	278.1
42.5°	303.5	302.0	300.4	299.7	298.9	298.6	298.2	298.4
45°	326.5	324.9	323.3	322.7	322.0	321.1	320.2	321.1
47.5°	351.6	349.6	347.6	346.4	345.2	345.6	345.8	345.2
50°	379.6	376.3	372.9	371.6	370.3	370.3	370.3	370.2
52.5°	408.0	403.4	398.8	397.7	396.5	396.2	396.0	395.7
55°	438.0	432.2	426.6	424.4	422.4	422.6	422.9	423.7
57.5°	468.7	461.2	453.7	451.3	448.9	449.1	449.2	450.6
60°	500.6	491.0	481.3	478.6	475.9	476.6	477.4	478.2
62.5°	537.2	525.5	513.8	510.2	506.6	507.5	508.4	510.6
65°	583.2	568.5	553.8	550.2	546.4	546.8	547.2	551.0
67.5°	646.0	626.4	607.0	603.5	600.1	600.7	601.3	607.4
70°	726.2	697.3	668.4	654.2	640.0	637.8	635.6	638.8
72°	743.4	702.6	661.8	640.8	619.8	616.6	613.3	613.6
72.5°	735.4	694.2	653.0	632.6	612.2	609.6	606.9	606.4
75°	694.7	654.3	614.0	592.9	571.9	566.8	561.8	561.7
77.5°	645.8	595.0	544.1	521.4	498.7	493.4	488.0	483.9
80°	505.8	460.3	414.7	391.7	368.6	360.1	351.6	346.5
82.5°	297.8	255.8	213.9	184.6	155.4	146.6	137.9	125.6
85°	94.4	72.6	50.8	39.6	28.5	23.0	17.6	15.4
87.5°	15.7	12.8	9.8	9.5	9.1	7.2	5.2	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)