

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: INVUE

Report Number: P140579

Luminaire Tested: **ECM-E01-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140579  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E01-LED-E1-5XQ-7030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2723.2 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

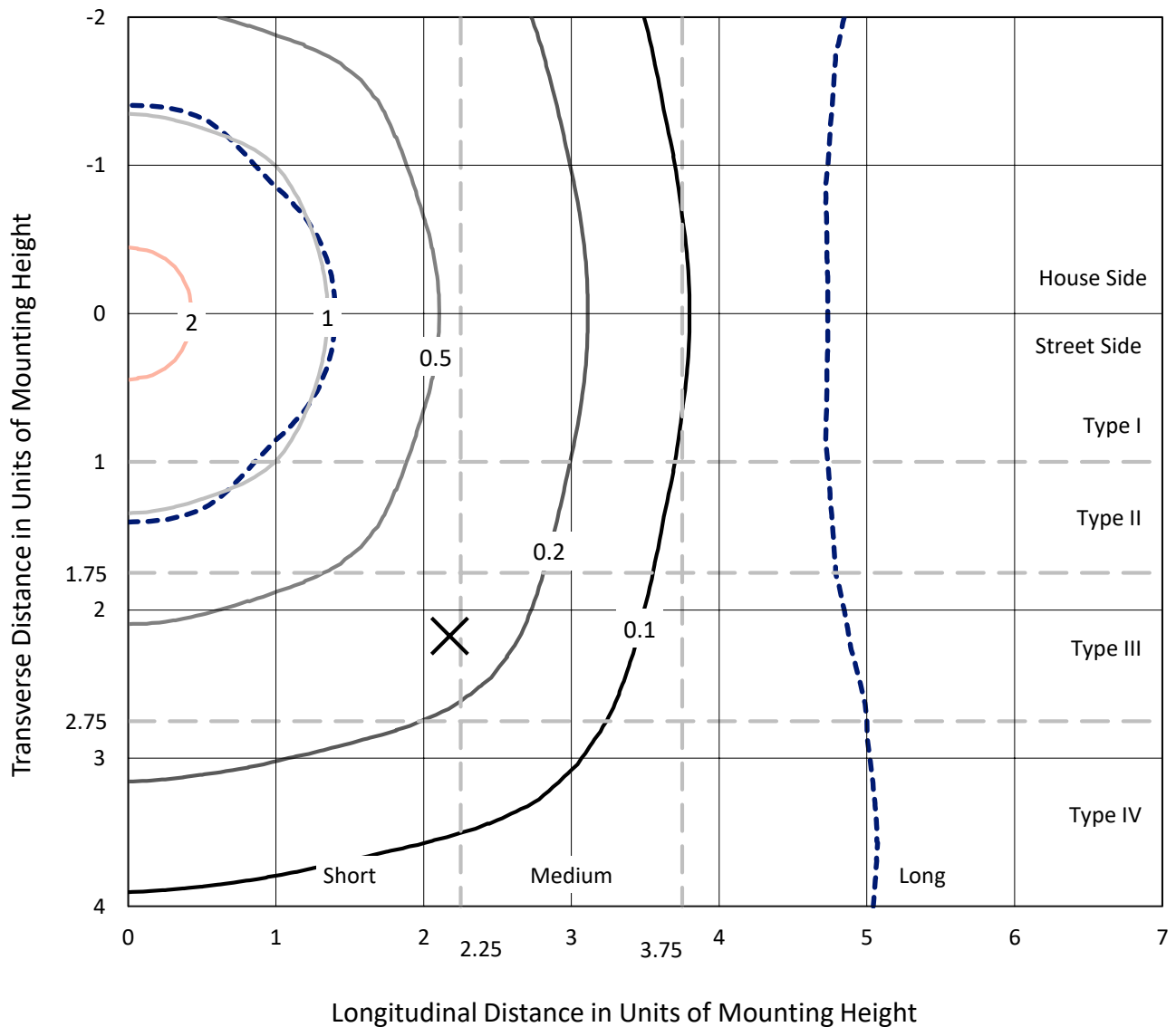
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

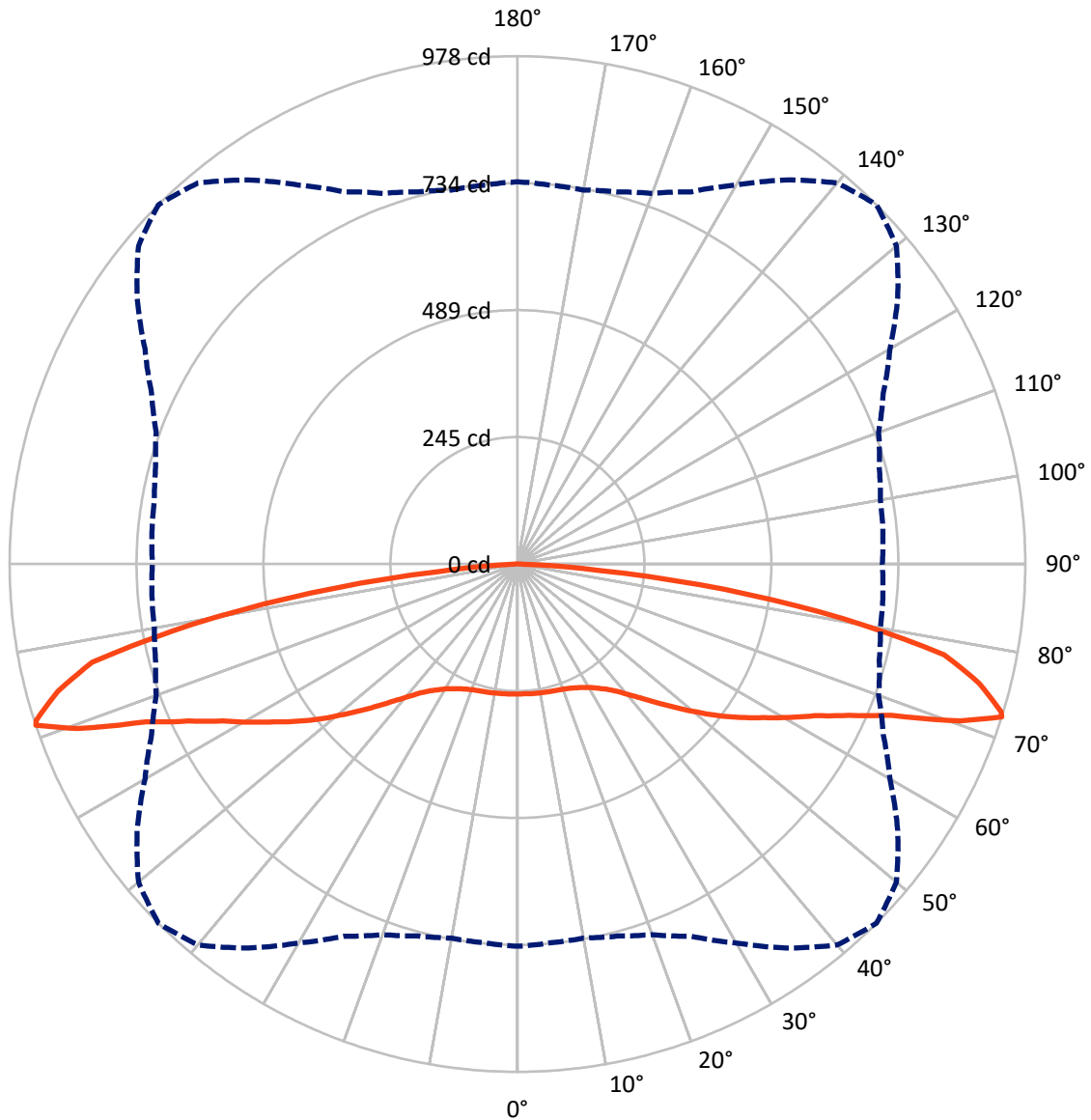
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 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	1361.6	0.0	1361.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1361.6	0.0	1361.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2723.2	0.0	2723.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.0	0.9
10°-20°	72.2	2.7
20°-30°	122.2	4.5
30°-40°	186.0	6.8
40°-50°	294.4	10.8
50°-60°	451.2	16.6
60°-70°	662.4	24.3
70°-80°	751.4	27.6
80°-90°	159.2	5.8
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°	2723.2	100.0
0°-180°	2723.2	100.0



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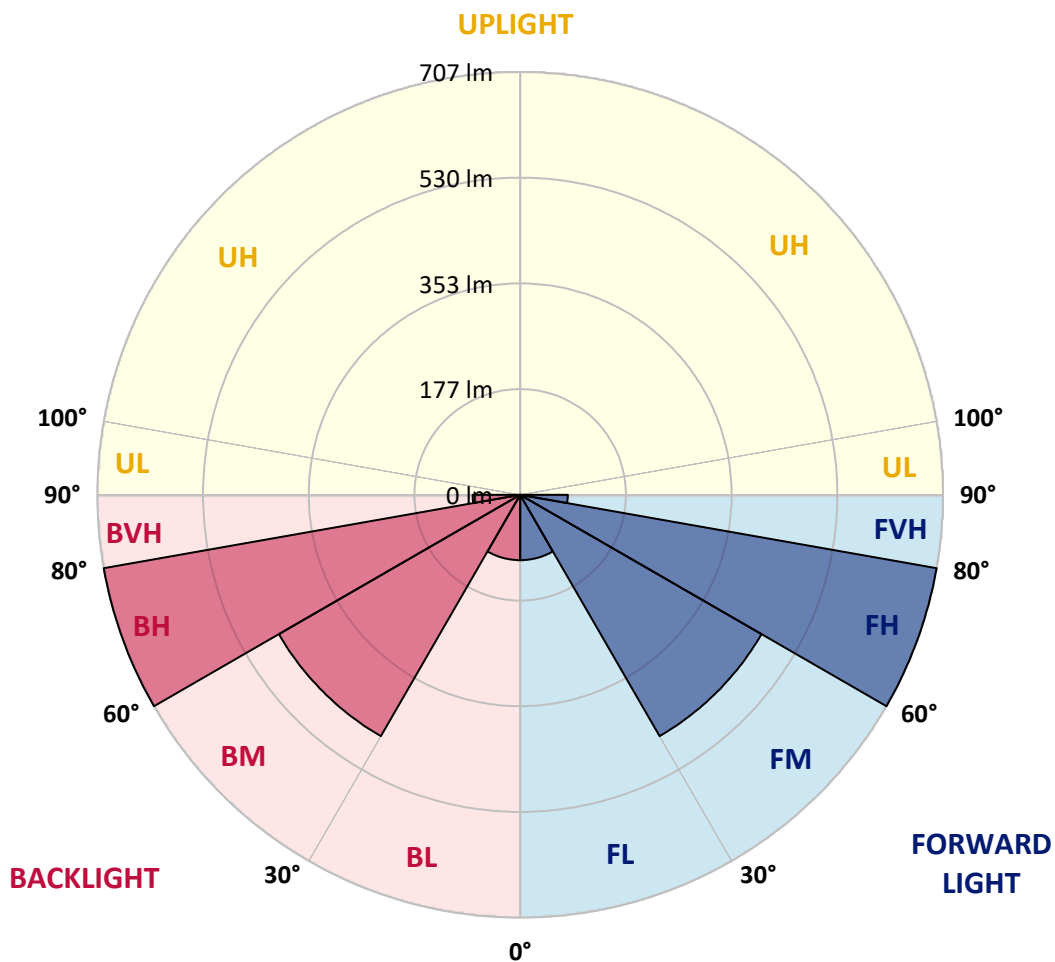
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	109.2	4.0			
FM (30°-60°)	465.8	17.1			
FH (60°-80°)	706.9	26.0			G1/1800
FVH (80°-90°)	79.6	2.9			G1/100
BL (0°-30°)	109.2	4.0	B0/110		
BM (30°-60°)	465.8	17.1	B1/1000		
BH (60°-80°)	706.9	26.0	B2/1000		G1/1800
BVH (80°-90°)	79.6	2.9			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°	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3
2.5°	251.2	251.5	251.2	250.9	250.9	250.6	250.6	250.6	250.9	250.3	250.3
5°	251.8	252.1	251.8	251.2	251.2	251.2	250.9	250.9	251.2	250.9	250.9
7.5°	252.7	253.0	252.7	252.1	252.1	251.8	251.5	251.5	252.1	251.5	251.5
10°	253.6	254.2	253.6	253.0	253.0	252.7	252.4	252.4	252.7	252.1	252.1
12.5°	255.1	255.1	254.8	254.5	254.5	254.2	253.9	253.6	253.3	253.0	252.7
15°	256.3	256.7	256.0	255.7	255.4	255.1	254.8	254.8	254.2	253.9	253.9
17.5°	257.9	258.2	257.6	257.0	257.0	256.3	256.0	256.0	255.4	255.1	254.8
20°	259.4	259.7	259.1	258.8	258.5	258.2	257.6	257.9	257.6	257.0	257.0
22.5°	261.2	261.2	260.9	260.6	260.6	260.3	260.0	260.6	260.0	260.0	259.7
25°	263.0	263.3	263.0	263.0	263.3	263.3	263.7	264.3	264.3	264.0	263.7
27.5°	267.0	267.0	267.0	267.0	267.9	267.9	268.2	269.1	269.4	269.4	269.4
30°	272.2	272.5	272.2	272.2	273.1	273.4	274.3	275.2	275.8	275.8	276.1
32.5°	279.8	279.5	279.8	280.4	281.0	281.6	282.5	284.1	285.0	285.3	285.3
35°	289.5	289.8	289.5	289.8	291.1	292.0	292.9	294.7	295.3	295.9	296.2
37.5°	303.8	304.8	304.1	304.1	305.7	306.3	307.5	309.0	310.2	310.8	310.5
40°	324.5	324.2	323.6	323.9	324.2	324.8	326.1	329.1	330.6	330.6	330.6
42.5°	348.3	348.6	347.7	347.4	347.7	348.3	350.1	352.6	355.0	354.4	354.7
45°	375.4	373.3	373.9	373.3	373.6	375.7	378.7	380.0	382.4	382.4	383.0
47.5°	401.9	401.0	400.7	400.4	401.3	403.4	407.0	411.0	413.1	414.4	415.3
50°	431.7	430.2	429.9	430.2	430.5	431.1	438.1	442.1	447.2	448.2	447.8
52.5°	460.6	459.4	458.8	458.8	460.0	462.2	469.5	475.9	481.6	485.3	483.8
55°	492.0	492.0	490.2	489.6	491.4	493.5	503.6	510.9	519.1	521.8	517.6
57.5°	524.3	524.0	521.2	520.3	521.8	527.3	535.8	547.1	555.9	558.4	555.9
60°	555.9	555.9	554.4	553.8	555.3	562.0	572.4	584.8	595.5	600.1	596.1
62.5°	592.2	592.2	588.2	590.0	592.2	597.3	610.4	626.6	640.9	643.3	639.6
65°	633.3	635.1	632.0	631.4	634.2	643.9	658.8	679.2	696.0	702.4	696.9
67.5°	696.0	693.2	689.6	688.1	692.3	701.5	719.7	746.5	771.2	777.3	770.9
70°	761.1	758.4	757.2	762.0	771.2	790.4	818.4	855.8	890.2	904.8	891.4
72°	736.2	732.5	731.6	741.9	759.6	791.0	842.7	903.0	957.8	978.2	952.9
72.5°	723.4	720.3	720.0	729.8	748.9	780.6	831.5	893.6	952.3	974.5	947.4
75°	671.6	668.6	671.6	682.6	701.8	735.9	787.6	845.8	898.7	919.1	892.6
77.5°	600.1	594.6	597.3	612.6	633.9	671.0	725.8	794.6	845.8	840.3	801.0
80°	478.9	466.7	479.8	484.4	508.7	533.7	586.7	617.4	635.1	636.0	608.0
82.5°	209.2	214.0	230.5	244.2	261.5	290.4	311.8	344.9	383.6	401.6	380.0
85°	13.7	17.0	27.1	32.3	44.8	54.5	78.2	113.9	137.3	157.1	132.4
87.5°	2.4	3.3	6.1	7.3	7.9	8.8	8.8	12.2	12.8	10.4	11.6
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°	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3
2.5°	250.3	250.3	250.6	250.3	250.3	250.3	250.0	250.0
5°	250.6	250.6	250.9	250.9	250.6	250.6	250.6	250.6
7.5°	251.5	251.2	251.5	251.5	251.2	251.2	250.9	251.2
10°	251.8	251.8	252.1	252.1	251.8	251.8	251.8	251.8
12.5°	252.7	252.7	252.7	253.0	252.7	252.7	253.0	252.7
15°	253.6	253.3	253.3	253.3	253.3	253.6	253.6	253.9
17.5°	254.5	254.5	254.2	254.5	254.5	254.8	254.8	254.8
20°	256.3	256.0	255.4	256.0	256.0	256.0	256.0	256.3
22.5°	259.1	258.5	257.9	257.9	257.6	257.9	257.6	257.6
25°	263.0	262.1	261.2	260.9	260.6	260.3	260.0	260.3
27.5°	268.8	267.6	266.4	265.8	265.5	264.9	264.6	264.6
30°	275.2	274.3	272.5	271.9	271.0	270.0	270.0	269.7
32.5°	285.0	283.7	281.6	280.7	279.2	278.3	278.0	278.0
35°	295.0	293.5	292.6	291.4	289.5	288.6	288.3	288.3
37.5°	310.2	308.4	307.2	305.7	305.4	304.1	304.1	304.1
40°	330.0	328.5	327.0	325.8	324.8	323.9	322.7	322.7
42.5°	354.4	351.9	351.0	349.5	348.3	347.4	346.8	346.8
45°	381.2	379.0	377.8	375.7	375.4	374.8	373.6	373.6
47.5°	411.3	408.3	405.8	405.2	403.7	402.2	401.6	401.9
50°	444.2	439.0	435.7	435.7	433.8	431.7	432.0	431.7
52.5°	478.0	472.2	467.9	464.9	462.8	462.5	462.8	462.5
55°	512.1	506.0	500.8	497.5	495.3	493.2	492.9	492.9
57.5°	547.4	539.8	531.6	528.5	526.4	525.2	525.2	525.5
60°	587.3	574.8	564.5	560.5	559.0	559.6	559.3	559.6
62.5°	627.8	613.5	601.3	596.7	594.6	594.3	596.7	597.6
65°	678.9	661.3	647.6	639.0	639.0	638.1	640.9	639.6
67.5°	745.6	720.6	703.9	690.2	690.5	691.4	695.4	695.1
70°	859.2	815.0	784.0	760.5	751.4	745.3	744.1	744.1
72°	894.2	828.4	777.3	740.4	721.5	710.0	706.6	703.0
72.5°	885.0	817.4	765.7	727.3	707.8	696.3	691.1	686.5
75°	827.5	752.0	695.7	655.5	633.9	619.9	617.1	615.0
77.5°	730.1	663.1	604.9	563.2	541.6	523.7	516.3	515.7
80°	562.9	502.6	457.9	425.3	405.8	392.4	393.0	388.8
82.5°	332.2	281.3	243.0	199.4	170.8	154.4	144.0	142.8
85°	97.7	66.4	42.3	30.4	21.9	16.4	12.2	11.0
87.5°	8.8	7.0	5.8	4.9	4.6	4.0	2.4	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)