

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: P140583

Luminaire Tested: **ECM-F01-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140583  
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-F01-LED-E1-5XQ-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (7) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2077.3 lumens  
Efficiency: N/A  
Efficacy: 80.2 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

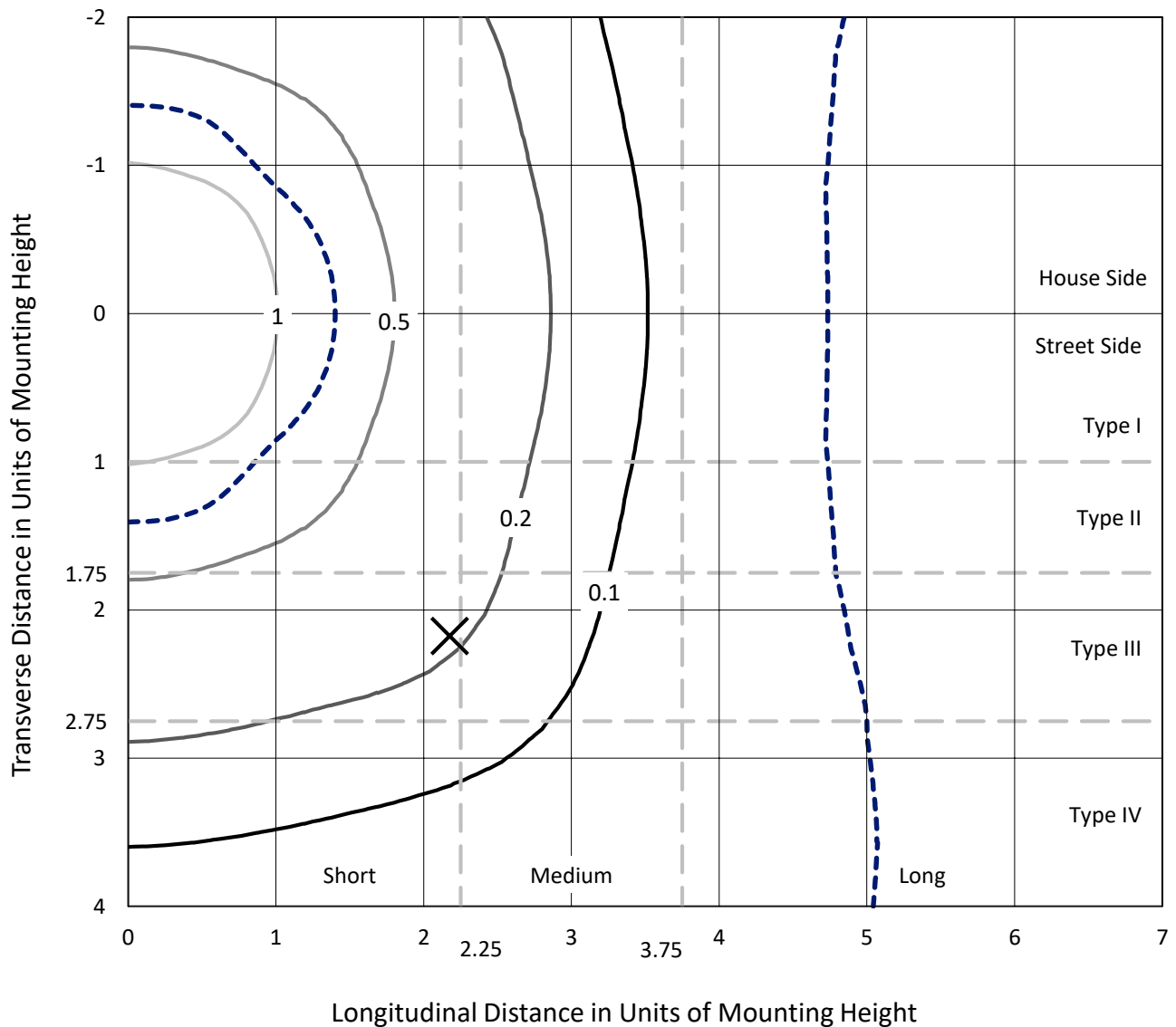
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

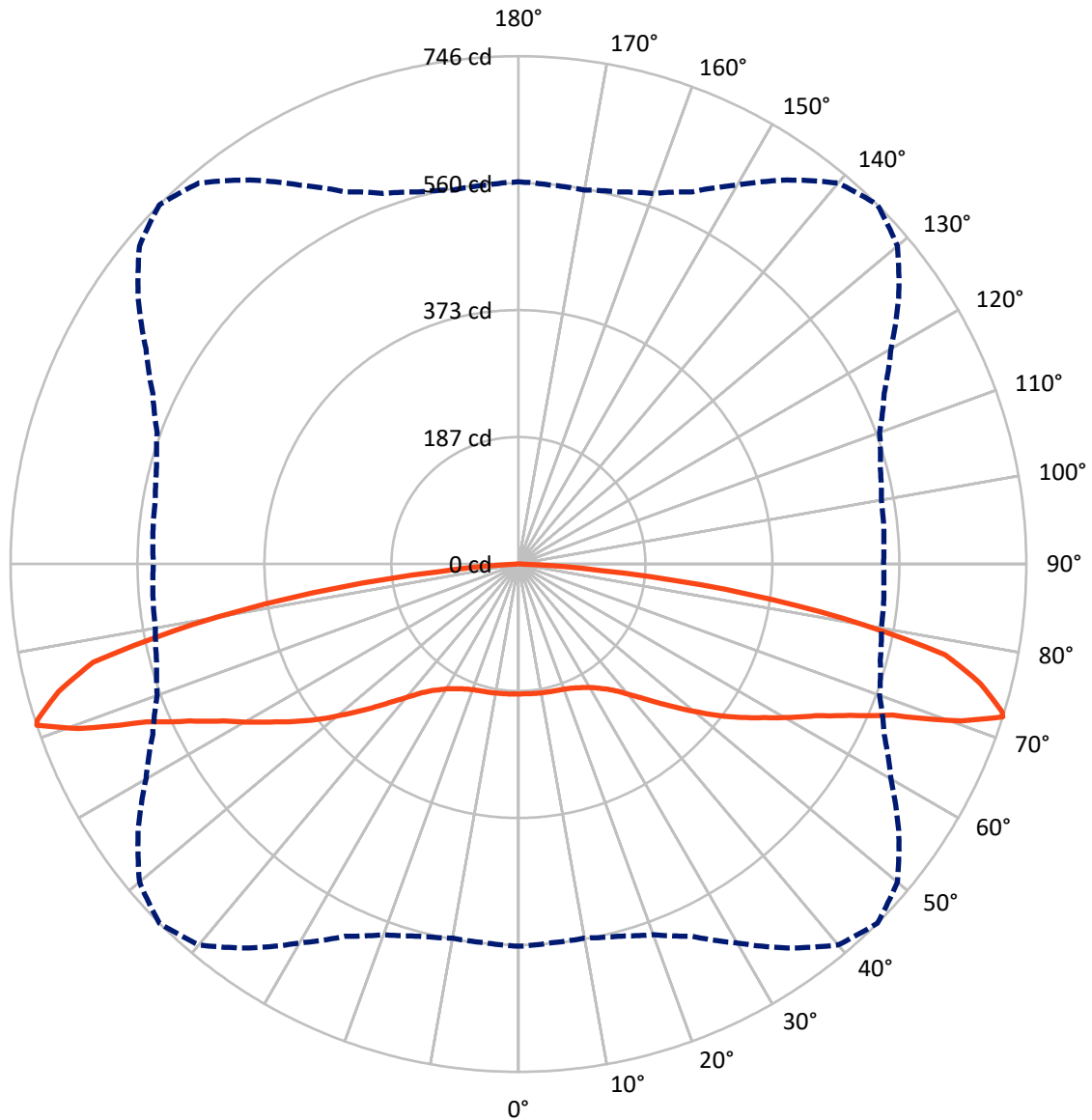
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.9 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	1038.7	0.0	1038.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1038.7	0.0	1038.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2077.3	0.0	2077.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.3	0.9
10°-20°	55.1	2.7
20°-30°	93.2	4.5
30°-40°	141.9	6.8
40°-50°	224.6	10.8
50°-60°	344.2	16.6
60°-70°	505.3	24.3
70°-80°	573.2	27.6
80°-90°	121.4	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°	2077.3	100.0
0°-180°	2077.3	100.0



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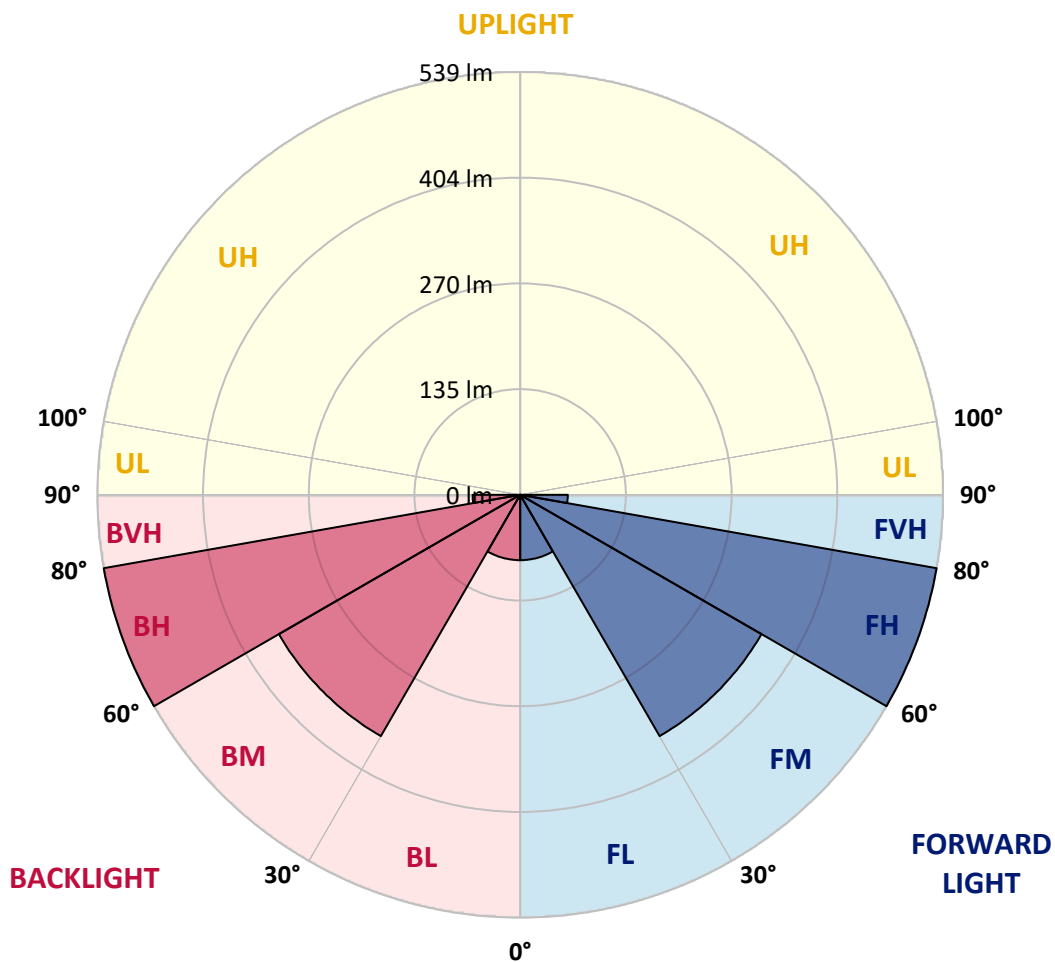
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	83.3	4.0			
FM	(30°-60°)	355.3	17.1			
FH	(60°-80°)	539.3	26.0			G0/660
FVH	(80°-90°)	60.7	2.9			G1/100
BL	(0°-30°)	83.3	4.0	B0/110		
BM	(30°-60°)	355.3	17.1	B1/1000		
BH	(60°-80°)	539.3	26.0	B2/1000		G0/660
BVH	(80°-90°)	60.7	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°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	191.6	191.8	191.6	191.4	191.4	191.1	191.1	191.1	191.4	190.9	190.9
5°	192.1	192.3	192.1	191.6	191.6	191.6	191.4	191.4	191.6	191.4	191.4
7.5°	192.8	193.0	192.8	192.3	192.3	192.1	191.8	191.8	192.3	191.8	191.8
10°	193.5	193.9	193.5	193.0	193.0	192.8	192.5	192.5	192.8	192.3	192.3
12.5°	194.6	194.6	194.4	194.2	194.2	193.9	193.7	193.5	193.2	193.0	192.8
15°	195.6	195.8	195.3	195.1	194.9	194.6	194.4	194.4	193.9	193.7	193.7
17.5°	196.7	196.9	196.5	196.0	196.0	195.6	195.3	195.3	194.9	194.6	194.4
20°	197.9	198.1	197.6	197.4	197.2	196.9	196.5	196.7	196.5	196.0	196.0
22.5°	199.3	199.3	199.0	198.8	198.8	198.6	198.3	198.8	198.3	198.3	198.1
25°	200.7	200.9	200.7	200.7	200.9	200.9	201.1	201.6	201.6	201.4	201.1
27.5°	203.7	203.7	203.7	203.7	204.4	204.4	204.6	205.3	205.5	205.5	205.5
30°	207.6	207.9	207.6	207.6	208.3	208.6	209.3	209.9	210.4	210.4	210.6
32.5°	213.4	213.2	213.4	213.9	214.4	214.8	215.5	216.7	217.4	217.6	217.6
35°	220.9	221.1	220.9	221.1	222.0	222.7	223.4	224.8	225.3	225.7	226.0
37.5°	231.8	232.5	232.0	232.0	233.2	233.6	234.6	235.7	236.7	237.1	236.9
40°	247.6	247.3	246.9	247.1	247.3	247.8	248.7	251.1	252.2	252.2	252.2
42.5°	265.7	265.9	265.2	265.0	265.2	265.7	267.1	268.9	270.8	270.3	270.6
45°	286.4	284.7	285.2	284.7	285.0	286.6	288.9	289.8	291.7	291.7	292.2
47.5°	306.6	305.9	305.6	305.4	306.1	307.7	310.5	313.5	315.2	316.1	316.8
50°	329.3	328.2	327.9	328.2	328.4	328.9	334.2	337.2	341.2	341.9	341.6
52.5°	351.4	350.5	350.0	350.0	350.9	352.5	358.1	363.0	367.4	370.2	369.0
55°	375.3	375.3	373.9	373.5	374.8	376.5	384.1	389.7	396.0	398.1	394.8
57.5°	399.9	399.7	397.6	396.9	398.1	402.2	408.8	417.3	424.1	425.9	424.1
60°	424.1	424.1	422.9	422.5	423.6	428.7	436.6	446.1	454.3	457.8	454.7
62.5°	451.7	451.7	448.7	450.1	451.7	455.7	465.7	478.0	488.9	490.7	487.9
65°	483.1	484.5	482.1	481.7	483.8	491.2	502.6	518.1	530.9	535.8	531.6
67.5°	530.9	528.8	526.0	524.9	528.1	535.1	549.0	569.5	588.3	592.9	588.0
70°	580.6	578.5	577.6	581.3	588.3	602.9	624.3	652.8	679.1	690.2	680.0
72°	561.6	558.8	558.1	566.0	579.5	603.4	642.9	688.8	730.6	746.2	726.9
72.5°	551.8	549.5	549.3	556.7	571.3	595.5	634.3	681.6	726.5	743.4	722.7
75°	512.3	510.0	512.3	520.7	535.3	561.3	600.8	645.2	685.6	701.1	680.9
77.5°	457.8	453.6	455.7	467.3	483.5	511.9	553.7	606.2	645.2	641.0	611.0
80°	365.3	356.0	366.0	369.5	388.1	407.1	447.5	471.0	484.5	485.2	463.8
82.5°	159.6	163.3	175.8	186.3	199.5	221.6	237.8	263.1	292.6	306.3	289.8
85°	10.5	13.0	20.7	24.6	34.1	41.6	59.7	86.9	104.7	119.8	101.0
87.5°	1.9	2.6	4.6	5.6	6.0	6.7	6.7	9.3	9.8	7.9	8.8
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°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	190.9	190.9	191.1	190.9	190.9	190.9	190.7	190.7
5°	191.1	191.1	191.4	191.4	191.1	191.1	191.1	191.1
7.5°	191.8	191.6	191.8	191.8	191.6	191.6	191.4	191.6
10°	192.1	192.1	192.3	192.3	192.1	192.1	192.1	192.1
12.5°	192.8	192.8	192.8	193.0	192.8	192.8	193.0	192.8
15°	193.5	193.2	193.2	193.2	193.2	193.5	193.5	193.7
17.5°	194.2	194.2	193.9	194.2	194.2	194.4	194.4	194.4
20°	195.6	195.3	194.9	195.3	195.3	195.3	195.3	195.6
22.5°	197.6	197.2	196.7	196.7	196.5	196.7	196.5	196.5
25°	200.7	200.0	199.3	199.0	198.8	198.6	198.3	198.6
27.5°	205.1	204.1	203.2	202.8	202.5	202.1	201.8	201.8
30°	209.9	209.3	207.9	207.4	206.7	206.0	206.0	205.8
32.5°	217.4	216.5	214.8	214.1	213.0	212.3	212.0	212.0
35°	225.0	223.9	223.2	222.3	220.9	220.2	219.9	219.9
37.5°	236.7	235.3	234.3	233.2	232.9	232.0	232.0	232.0
40°	251.8	250.6	249.4	248.5	247.8	247.1	246.2	246.2
42.5°	270.3	268.5	267.8	266.6	265.7	265.0	264.5	264.5
45°	290.8	289.1	288.2	286.6	286.4	285.9	285.0	285.0
47.5°	313.8	311.4	309.6	309.1	308.0	306.8	306.3	306.6
50°	338.8	334.9	332.3	332.3	330.9	329.3	329.6	329.3
52.5°	364.6	360.2	357.0	354.6	353.0	352.8	353.0	352.8
55°	390.6	386.0	382.0	379.5	377.9	376.2	376.0	376.0
57.5°	417.6	411.8	405.5	403.2	401.6	400.6	400.6	400.9
60°	448.0	438.5	430.6	427.6	426.4	426.9	426.6	426.9
62.5°	478.9	468.0	458.7	455.2	453.6	453.3	455.2	455.9
65°	517.9	504.4	494.0	487.5	487.5	486.8	488.9	487.9
67.5°	568.8	549.7	537.0	526.5	526.7	527.4	530.4	530.2
70°	655.4	621.7	598.0	580.1	573.2	568.5	567.6	567.6
72°	682.1	631.9	592.9	564.8	550.4	541.6	539.0	536.3
72.5°	675.1	623.6	584.1	554.8	540.0	531.1	527.2	523.7
75°	631.2	573.6	530.7	500.0	483.5	472.9	470.8	469.1
77.5°	556.9	505.8	461.5	429.7	413.2	399.5	393.9	393.4
80°	429.4	383.4	349.3	324.4	309.6	299.4	299.8	296.6
82.5°	253.4	214.6	185.3	152.1	130.3	117.7	109.9	108.9
85°	74.6	50.6	32.3	23.2	16.7	12.5	9.3	8.4
87.5°	6.7	5.3	4.4	3.7	3.5	3.0	1.9	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)