

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: P140274

Luminaire Tested: **ECM-F02-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140274
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F02-LED-E1-5MQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4605.1 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

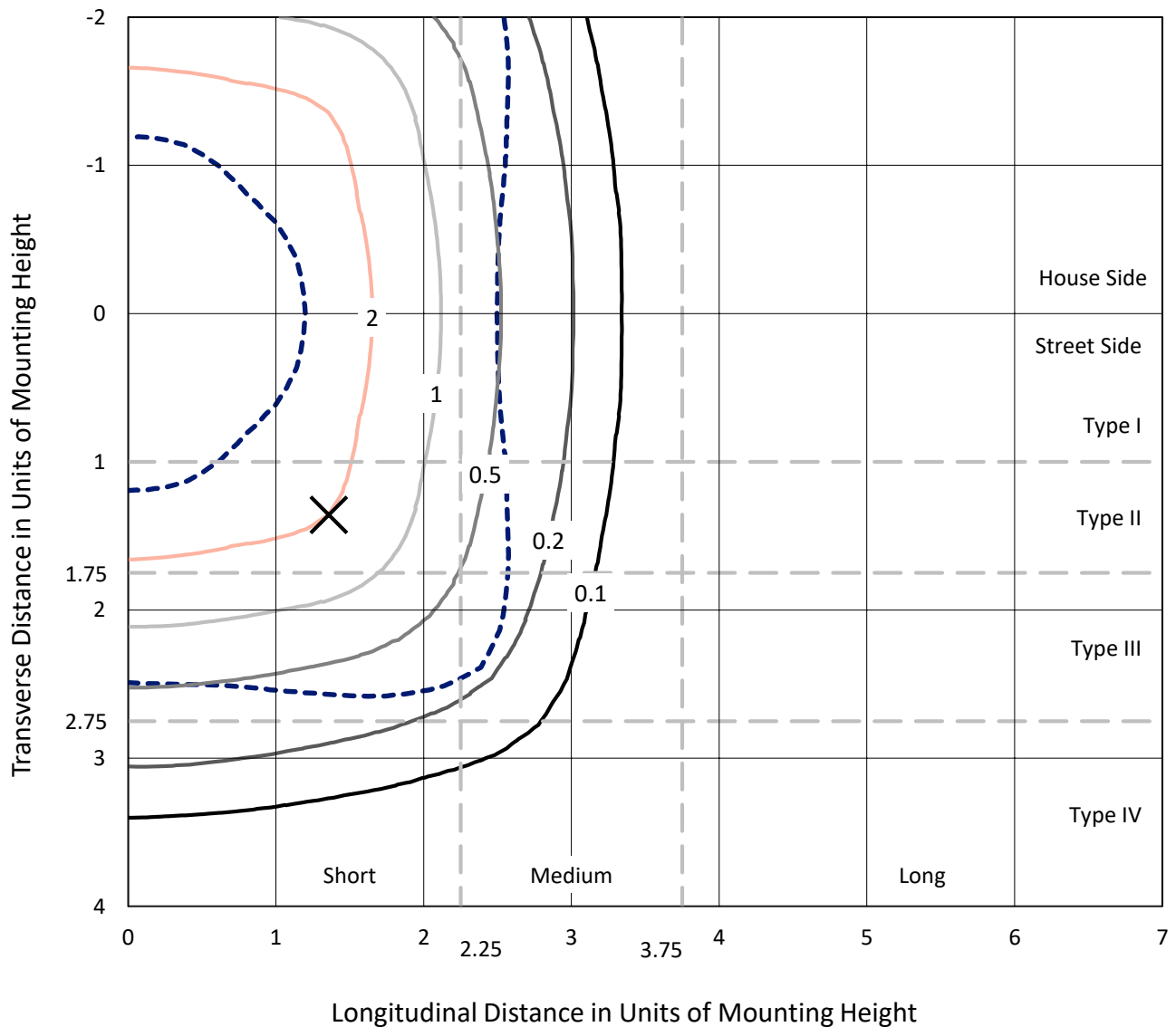
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140274
 CATALOG NUMBER: ECM-F02-LED-E1-5MQ-7030

Iso-Footcandle Lines of Horizontal Illumination

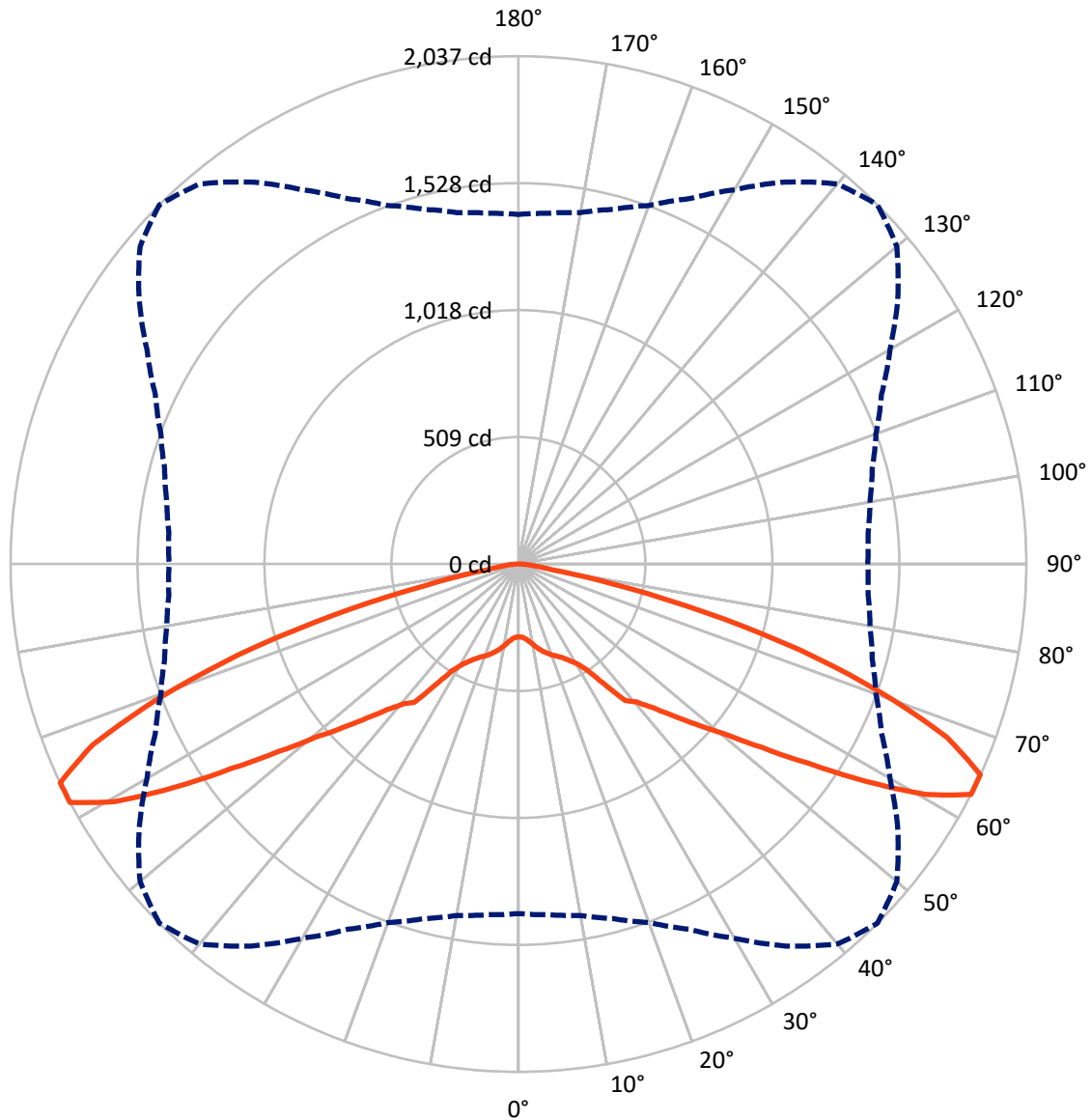
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P140274
CATALOG NUMBER: ECM-F02-LED-E1-5MQ-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P140274

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2302.5	0.0	2302.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2302.5	0.0	2302.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4605.1	0.0	4605.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	0.6
10°-20°	103.5	2.2
20°-30°	198.8	4.3
30°-40°	382.4	8.3
40°-50°	665.5	14.5
50°-60°	1195.4	26.0
60°-70°	1465.3	31.8
70°-80°	516.8	11.2
80°-90°	47.8	1.0
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°	4605.1	100.0
0°-180°	4605.1	100.0



REPORT NUMBER: P140274

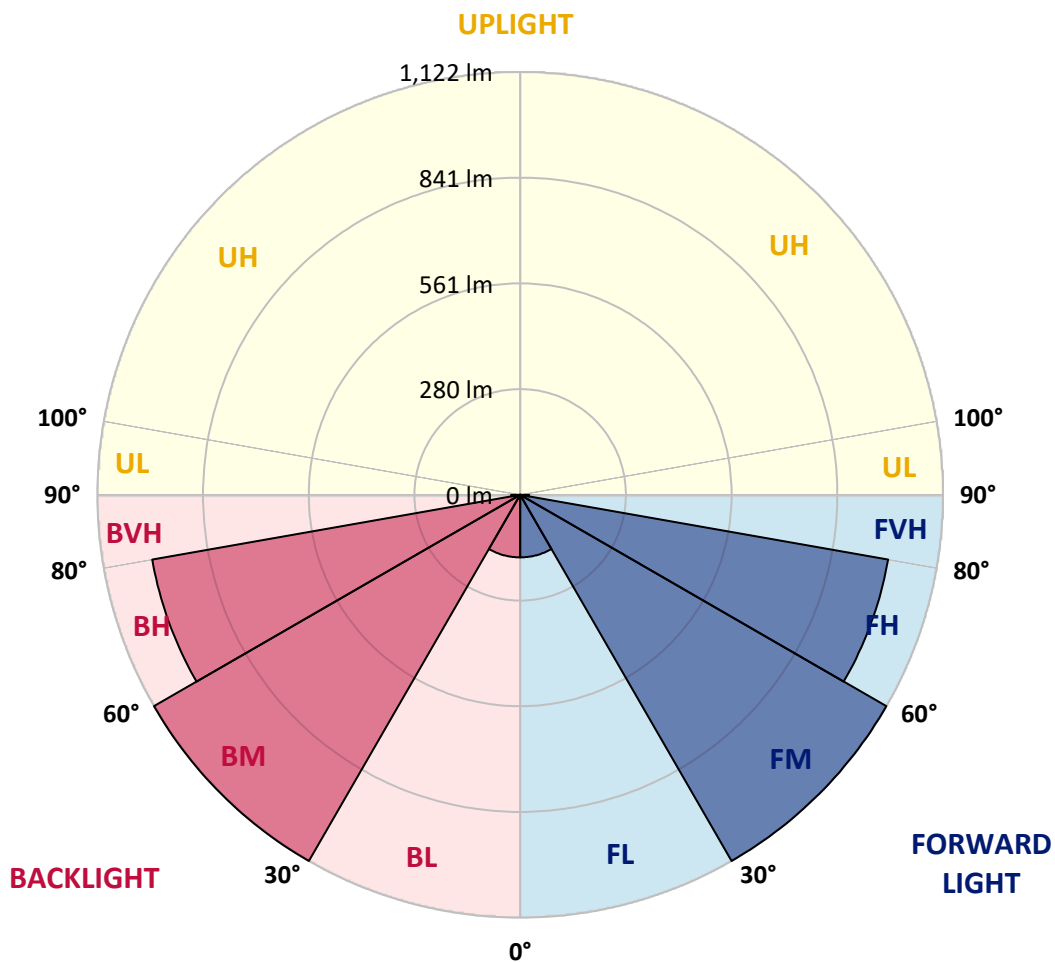
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.0	3.6			
FM (30°-60°)	1121.6	24.4			
FH (60°-80°)	991.0	21.5			G1/1800
FVH (80°-90°)	23.9	0.5			G1/100
BL (0°-30°)	166.0	3.6	B1/500		
BM (30°-60°)	1121.6	24.4	B2/2500		
BH (60°-80°)	991.0	21.5	B2/1000		G1/1800
BVH (80°-90°)	23.9	0.5			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





REPORT NUMBER: P140274
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0
2.5°	295.6	295.6	295.1	294.6	294.6	294.6	294.1	294.1	294.6	293.6	293.6
5°	303.1	303.6	303.1	302.6	302.1	302.1	301.6	301.6	302.1	301.1	300.6
7.5°	317.2	317.7	316.7	316.2	315.7	315.2	314.7	314.2	314.7	313.2	313.2
10°	335.3	335.3	335.3	333.3	333.3	331.8	331.3	330.2	330.8	329.2	329.2
12.5°	353.4	353.4	352.9	351.9	351.4	350.4	349.4	349.4	348.3	346.3	345.3
15°	369.5	370.0	369.5	367.9	367.4	365.9	365.9	364.9	363.4	362.4	361.4
17.5°	384.5	385.0	383.5	383.0	381.5	380.5	379.5	379.0	378.0	376.5	376.0
20°	399.1	398.6	397.1	395.1	394.1	393.1	392.1	391.6	391.1	390.1	390.1
22.5°	413.2	413.2	411.7	408.7	406.7	405.6	404.1	403.1	402.1	401.6	402.6
25°	434.3	433.8	430.8	427.8	424.2	421.2	419.2	418.7	417.7	417.7	418.2
27.5°	461.4	460.4	455.9	451.9	447.9	443.9	441.3	439.3	438.8	438.3	438.3
30°	495.6	494.1	490.1	485.1	480.5	475.5	470.5	469.0	466.5	464.5	468.0
32.5°	561.0	562.0	553.9	543.9	533.8	524.3	515.7	509.2	505.2	505.7	505.7
35°	632.9	633.4	629.8	625.8	622.8	617.3	607.7	599.7	593.6	587.1	590.1
37.5°	664.0	664.5	661.5	661.0	663.0	666.5	676.1	683.1	693.7	695.2	692.2
40°	718.8	716.3	712.3	711.3	709.8	714.8	718.8	722.3	723.8	726.8	723.8
42.5°	776.1	775.1	772.1	768.6	768.6	769.6	776.1	781.6	785.2	785.7	785.2
45°	840.5	838.9	836.4	835.9	837.4	842.0	846.5	853.5	864.6	865.1	864.6
47.5°	911.3	912.3	908.3	909.8	912.3	919.9	932.4	944.0	956.1	960.6	955.1
50°	1008.3	1004.8	1004.8	1003.3	1009.8	1020.9	1036.0	1049.6	1066.6	1070.7	1062.1
52.5°	1140.0	1132.5	1134.0	1130.0	1133.5	1143.6	1168.2	1189.3	1210.9	1221.5	1204.9
55°	1298.4	1285.8	1287.3	1291.3	1294.4	1311.4	1342.6	1366.7	1407.5	1411.0	1391.9
57.5°	1428.1	1424.5	1426.6	1436.1	1455.2	1484.9	1524.1	1582.4	1632.6	1644.7	1624.1
60°	1475.3	1477.8	1491.9	1517.0	1553.2	1606.0	1682.4	1773.4	1853.3	1877.4	1846.3
62.5°	1401.9	1412.0	1431.1	1472.8	1530.1	1616.1	1733.2	1870.4	1990.0	2036.8	1981.0
65°	1258.7	1265.2	1296.4	1332.1	1405.9	1504.5	1648.2	1826.7	1974.0	2035.8	1973.5
67.5°	1070.7	1083.2	1110.4	1154.6	1218.5	1318.5	1469.3	1651.7	1799.5	1853.8	1799.0
70°	859.6	865.1	882.2	916.9	983.2	1071.7	1200.9	1364.2	1508.0	1542.2	1498.4
72.5°	596.2	607.2	621.8	653.5	695.2	770.1	876.6	996.8	1112.4	1183.3	1118.9
75°	256.9	242.3	274.5	306.1	357.4	426.8	510.2	608.7	723.3	770.6	707.2
77.5°	76.9	76.4	81.4	90.5	108.6	143.8	201.6	267.9	356.4	387.0	332.3
80°	62.8	64.8	66.9	68.9	70.9	73.4	77.9	91.0	111.6	131.7	107.1
82.5°	53.3	55.8	61.3	64.3	65.8	66.4	66.4	65.8	63.3	62.3	61.8
85°	40.2	44.2	51.8	56.3	56.3	56.3	56.3	54.8	51.3	45.2	50.3
87.5°	13.6	18.1	30.2	32.2	33.2	30.7	32.2	32.7	27.1	20.6	26.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P140274

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0
2.5°	293.6	293.6	293.6	294.1	293.6	293.6	293.6	293.6
5°	301.1	300.6	301.1	300.6	301.1	301.1	300.6	301.1
7.5°	312.7	312.7	313.2	313.2	312.7	312.7	312.7	312.7
10°	328.2	327.2	327.7	327.7	327.7	327.2	327.2	326.7
12.5°	344.3	343.3	343.3	343.3	343.3	342.8	343.3	343.3
15°	359.4	358.4	357.4	357.4	357.9	358.4	358.4	357.9
17.5°	374.0	373.0	371.5	371.5	371.0	372.0	373.0	372.5
20°	388.6	388.1	385.5	385.5	385.5	386.5	387.0	388.6
22.5°	403.1	402.6	400.6	400.1	400.6	402.6	404.1	404.1
25°	418.7	419.7	419.2	419.2	420.2	423.2	424.7	426.8
27.5°	440.8	442.8	443.3	445.4	445.9	449.4	451.9	454.9
30°	469.5	473.0	475.0	478.5	481.0	483.1	486.6	489.1
32.5°	509.2	517.7	527.8	539.4	544.4	553.4	557.5	558.5
35°	600.7	609.7	618.3	623.3	621.3	623.8	623.8	625.8
37.5°	683.1	674.1	666.5	665.0	661.0	659.5	660.0	661.5
40°	721.3	716.8	713.8	715.3	713.3	711.8	712.8	713.3
42.5°	783.1	776.1	773.6	773.1	772.1	773.1	775.6	774.6
45°	855.5	846.5	843.0	842.5	841.0	840.5	841.5	843.5
47.5°	942.5	931.4	920.4	916.9	916.9	913.8	915.9	912.8
50°	1049.1	1031.0	1019.4	1012.9	1008.8	1004.3	1008.3	1001.8
52.5°	1189.3	1163.7	1151.1	1142.6	1131.0	1131.5	1132.5	1130.0
55°	1366.2	1338.1	1313.5	1296.9	1289.8	1285.8	1284.8	1292.8
57.5°	1569.8	1520.1	1480.8	1451.7	1440.6	1425.6	1418.5	1418.5
60°	1763.3	1672.9	1594.9	1546.2	1510.0	1484.4	1467.3	1462.2
62.5°	1857.8	1720.6	1606.5	1526.1	1468.8	1432.1	1407.5	1400.9
65°	1817.1	1642.7	1508.5	1418.0	1351.7	1304.4	1275.8	1267.7
67.5°	1653.3	1470.8	1329.5	1238.6	1167.2	1115.9	1094.3	1085.2
70°	1372.8	1205.4	1082.7	993.8	919.4	876.1	846.5	834.4
72.5°	986.7	859.6	747.0	670.6	603.7	581.1	540.9	536.8
75°	583.1	472.5	379.5	321.2	261.4	228.7	210.1	190.0
77.5°	237.3	169.4	127.2	96.0	82.4	74.9	71.4	70.4
80°	80.9	72.4	68.4	66.9	64.8	63.8	61.3	59.3
82.5°	63.8	63.3	61.3	60.8	58.8	55.8	50.8	47.8
85°	53.3	52.3	49.8	49.3	47.8	43.7	38.2	34.7
87.5°	30.2	27.6	25.1	25.6	24.1	21.1	15.6	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)