

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: McGRAW-EDISON

Report Number: P190799

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-5MQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5411.4 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

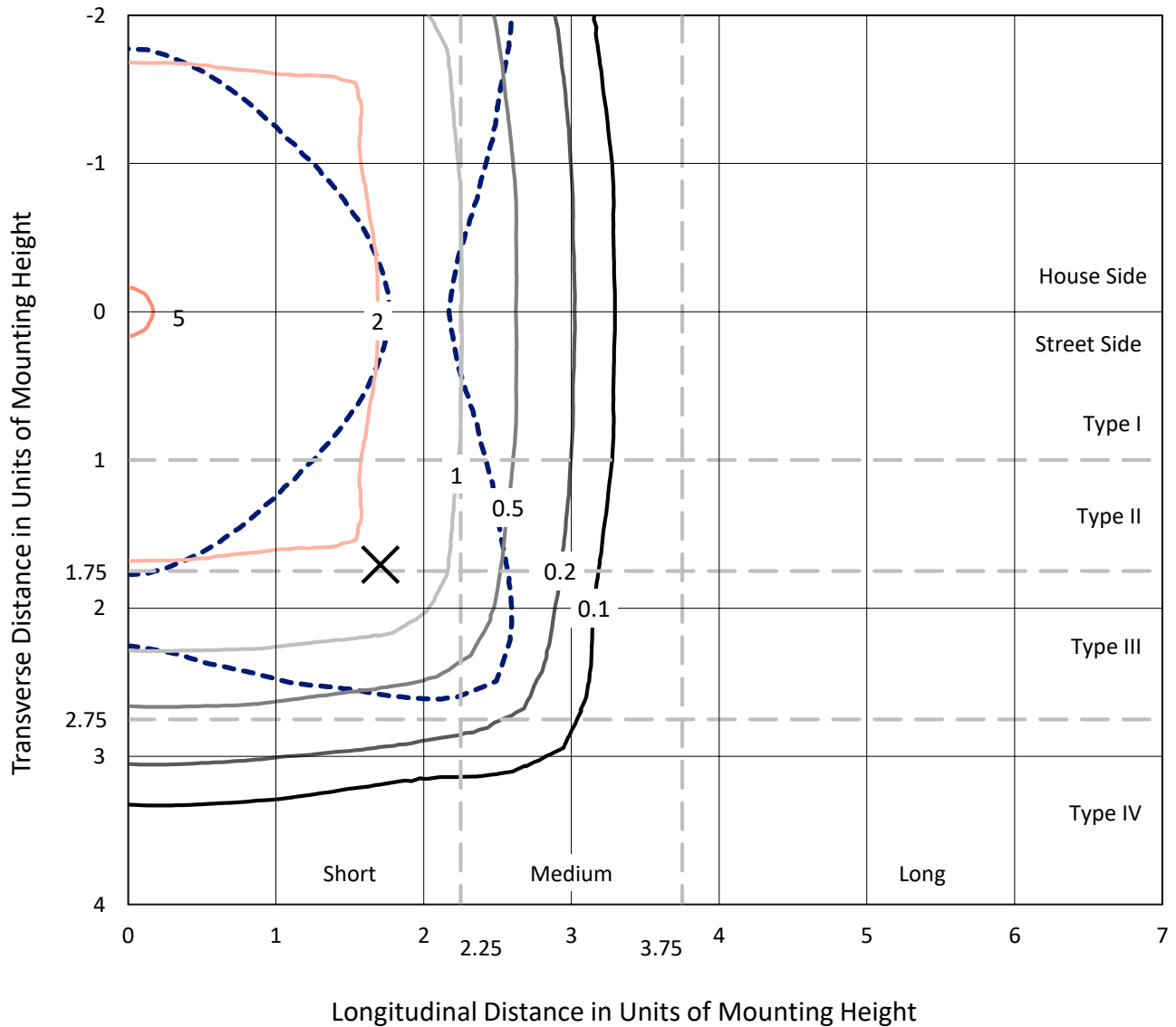
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

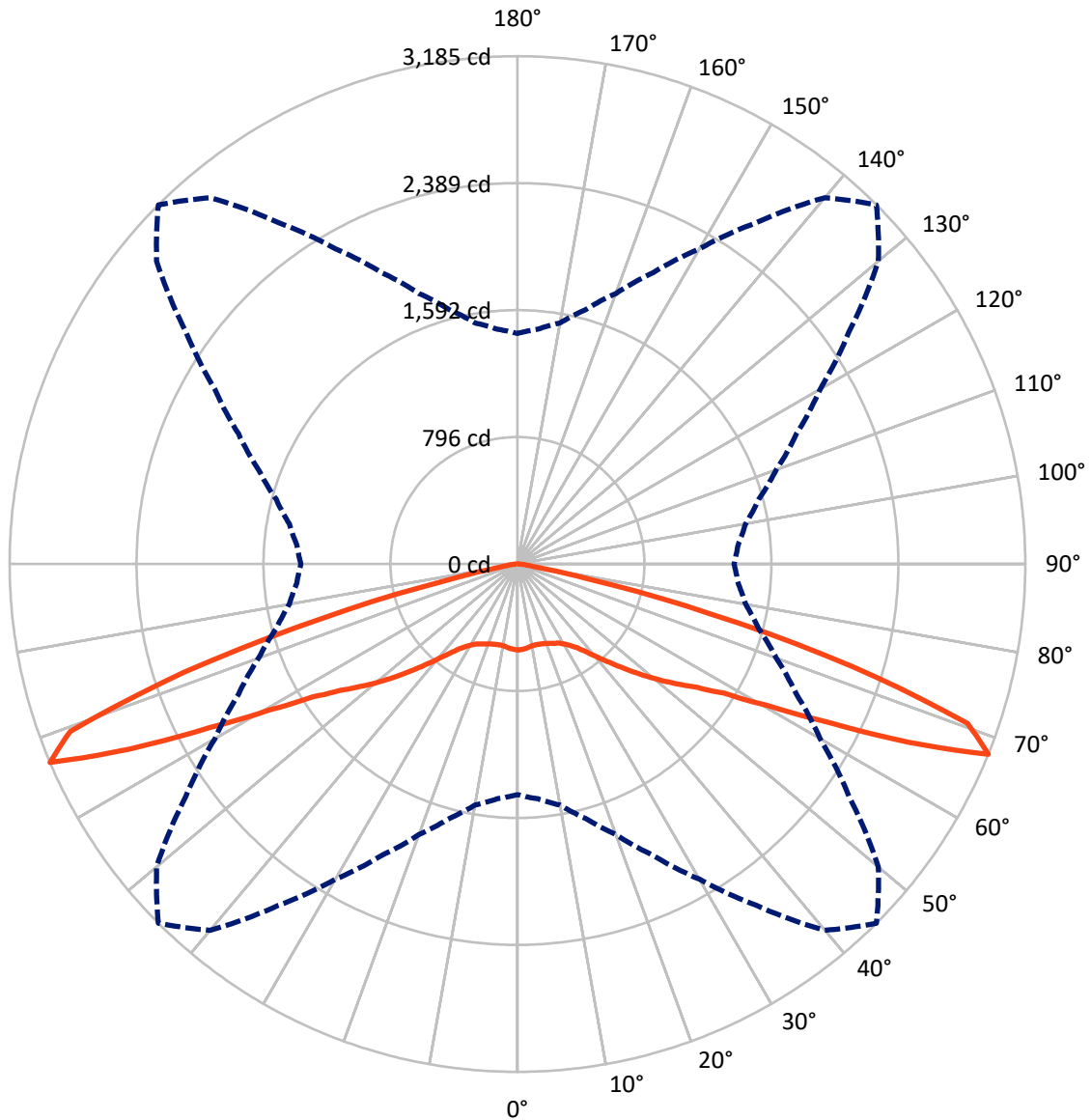
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2705.7	0.0	2705.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2705.7	0.0	2705.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5411.4	0.0	5411.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	0.9
10°-20°	146.5	2.7
20°-30°	249.0	4.6
30°-40°	407.0	7.5
40°-50°	726.6	13.4
50°-60°	1225.1	22.6
60°-70°	1901.1	35.1
70°-80°	668.0	12.3
80°-90°	37.7	0.7
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°	5411.4	100.0
0°-180°	5411.4	100.0



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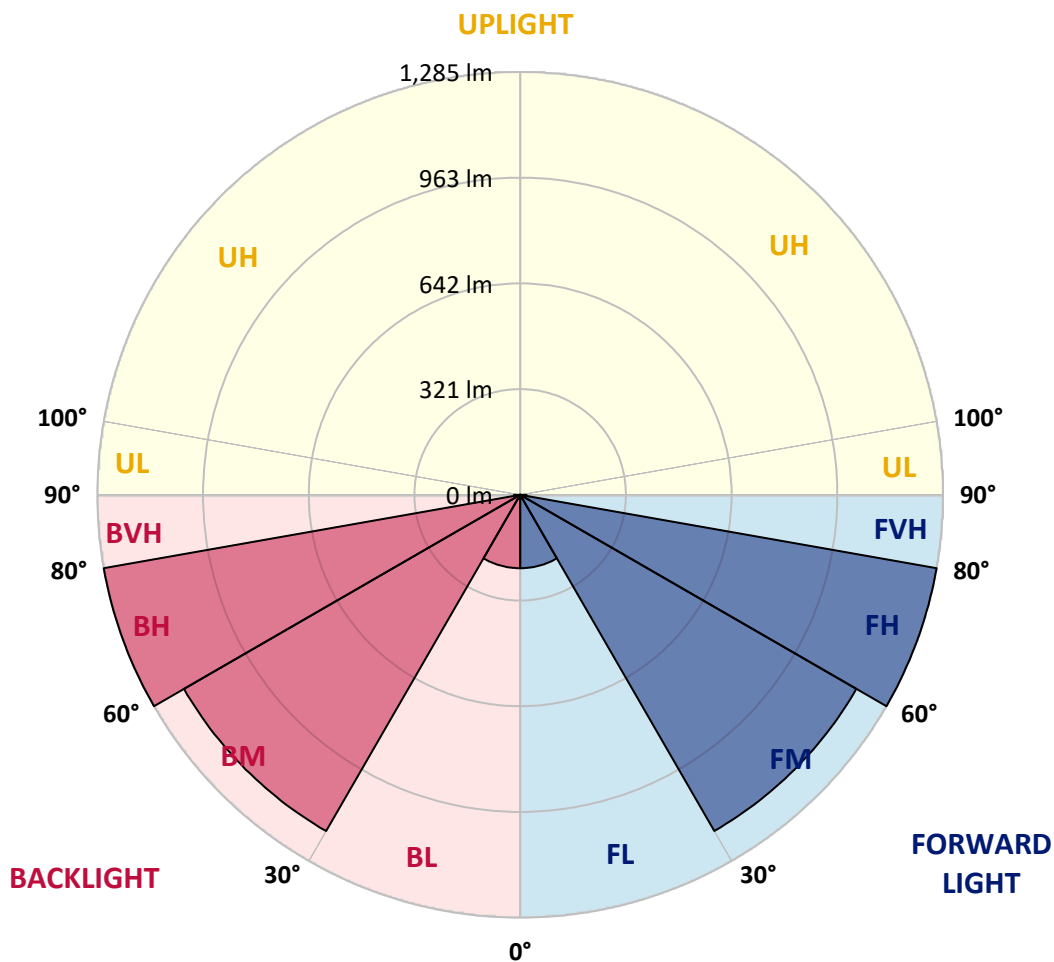
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.0	4.1			
FM	(30°-60°)	1179.3	21.8			
FH	(60°-80°)	1284.5	23.7			G1/1800
FVH	(80°-90°)	18.9	0.3			G1/100
BL	(0°-30°)	223.0	4.1	B1/500		
BM	(30°-60°)	1179.3	21.8	B2/2500		
BH	(60°-80°)	1284.5	23.7	B3/2500		G1/1800
BVH	(80°-90°)	18.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3
2.5°	537.3	537.8	537.8	537.8	537.6	537.6	537.0	537.6	537.3	536.5	536.7
5°	532.8	533.3	533.3	533.1	533.8	533.6	532.8	533.3	533.1	532.5	532.8
7.5°	526.3	527.1	527.1	526.8	527.5	527.3	526.8	527.1	527.1	526.3	526.3
10°	519.1	519.7	519.7	519.4	520.6	520.6	520.4	521.1	521.4	520.6	520.1
12.5°	512.4	513.1	513.1	514.1	515.4	515.9	517.1	518.1	519.1	518.8	517.8
15°	508.4	508.9	509.9	511.2	513.1	514.9	516.9	519.1	521.1	521.6	520.1
17.5°	506.0	506.7	508.2	509.9	512.6	515.7	518.6	521.6	524.4	525.3	523.5
20°	505.1	505.6	507.2	510.1	513.9	518.3	522.6	526.1	529.8	531.0	529.8
22.5°	506.7	507.7	509.4	512.9	517.8	523.5	528.6	533.3	538.1	540.2	538.5
25°	513.4	514.3	516.6	521.1	526.6	532.5	538.3	543.7	548.0	550.2	549.0
27.5°	525.8	527.1	529.8	534.3	540.2	546.8	553.0	557.4	560.9	561.7	560.2
30°	544.5	547.3	550.4	555.5	562.4	567.8	574.1	578.1	582.4	582.4	581.0
32.5°	573.6	576.3	579.8	584.5	590.0	596.0	601.5	605.0	609.5	609.7	606.7
35°	617.1	618.4	621.4	624.4	629.3	634.5	639.3	641.6	645.3	645.5	642.8
37.5°	674.6	674.9	676.9	677.9	682.4	688.0	692.5	694.1	697.6	697.0	694.3
40°	741.6	742.9	743.6	745.1	749.8	755.2	760.1	760.8	764.5	763.7	760.3
42.5°	819.0	819.5	823.7	825.9	830.4	833.2	839.1	839.8	844.3	842.4	838.4
45°	905.8	910.3	914.3	918.8	923.5	926.7	931.5	930.5	933.4	930.5	928.2
47.5°	997.2	1000.4	1009.3	1016.3	1024.1	1026.7	1033.5	1030.5	1033.5	1029.3	1028.5
50°	1097.7	1103.5	1111.1	1119.1	1127.3	1131.8	1140.5	1136.8	1140.8	1136.8	1134.6
52.5°	1196.8	1198.3	1215.2	1226.8	1238.3	1243.5	1248.7	1247.0	1247.3	1247.0	1244.7
55°	1290.9	1294.3	1311.2	1327.2	1347.0	1361.8	1370.7	1369.7	1367.5	1365.2	1361.4
57.5°	1396.8	1400.3	1419.8	1439.4	1462.0	1483.0	1501.1	1519.8	1527.0	1529.0	1520.7
60°	1540.2	1540.0	1565.8	1589.7	1622.0	1653.2	1693.0	1733.5	1780.0	1801.7	1773.1
62.5°	1686.0	1692.0	1729.3	1771.6	1838.3	1903.2	1976.6	2048.9	2122.5	2182.5	2118.7
65°	1668.5	1691.4	1747.0	1842.7	1966.0	2112.3	2270.5	2438.0	2589.3	2693.3	2576.6
67.5°	1446.1	1478.7	1535.1	1651.7	1805.7	2016.7	2282.5	2613.7	2998.7	3184.9	2954.2
70°	1048.2	1085.0	1144.3	1257.9	1410.5	1611.0	1899.7	2297.4	2807.1	2994.7	2740.7
72.5°	521.6	541.6	578.1	650.5	766.0	928.7	1190.5	1572.8	2023.7	2195.9	1963.8
75°	177.2	186.4	192.6	216.3	252.9	316.8	446.9	687.6	1048.9	1257.5	1034.0
77.5°	102.3	102.5	106.8	111.0	117.2	124.2	141.6	185.9	321.5	456.6	332.8
80°	66.2	66.0	69.5	72.6	76.9	80.4	81.4	86.1	99.3	117.7	105.3
82.5°	34.4	38.6	46.2	50.5	58.5	59.9	58.0	56.3	59.4	61.7	63.2
85°	18.9	16.5	24.7	31.8	35.3	35.8	35.8	33.9	35.1	34.4	37.3
87.5°	8.7	8.0	9.7	15.7	16.7	14.2	14.9	13.2	9.4	9.2	10.4
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°	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3
2.5°	536.7	537.0	537.0	537.8	538.1	538.5	539.0	539.3
5°	532.5	533.3	532.8	533.6	533.6	534.1	534.1	534.3
7.5°	526.3	527.1	527.1	527.1	526.8	527.5	527.5	527.5
10°	519.9	520.4	520.1	519.7	519.1	519.9	519.7	519.4
12.5°	517.8	516.6	515.7	515.2	514.1	514.3	513.6	513.6
15°	519.1	516.9	515.2	514.3	513.4	512.9	512.4	512.6
17.5°	522.3	519.7	517.4	516.1	514.9	514.1	513.1	513.4
20°	528.0	524.9	521.6	519.1	516.9	515.7	514.9	514.6
22.5°	536.5	531.8	527.1	523.3	520.4	518.6	517.8	517.4
25°	546.3	541.0	535.5	531.3	528.4	526.1	524.6	524.6
27.5°	558.4	554.2	549.2	544.2	541.6	539.3	538.3	537.8
30°	578.9	574.9	570.9	566.1	562.6	560.4	558.6	557.2
32.5°	605.0	601.7	598.5	595.1	591.8	588.8	586.0	584.8
35°	641.8	639.3	637.1	633.1	631.9	630.1	628.6	627.4
37.5°	692.5	691.6	691.6	687.3	686.3	685.6	684.1	684.4
40°	759.2	760.3	759.0	757.5	756.8	754.7	754.7	756.5
42.5°	838.1	838.9	841.6	839.1	841.9	839.4	837.9	839.1
45°	929.8	932.4	937.9	935.5	937.2	932.9	927.7	928.0
47.5°	1032.5	1035.0	1037.3	1035.5	1035.7	1028.8	1021.8	1020.1
50°	1139.3	1140.3	1141.5	1139.1	1139.5	1131.8	1123.8	1124.1
52.5°	1244.7	1249.5	1254.4	1247.8	1246.3	1237.6	1226.3	1221.9
55°	1365.4	1372.2	1366.5	1354.8	1343.0	1331.4	1316.7	1314.2
57.5°	1514.3	1502.8	1484.9	1462.8	1446.6	1430.2	1415.3	1409.0
60°	1721.3	1678.3	1645.9	1613.1	1592.4	1572.3	1552.6	1549.7
62.5°	2014.0	1939.6	1875.2	1807.1	1751.7	1708.4	1673.8	1664.1
65°	2380.8	2204.9	2052.3	1910.0	1786.3	1693.0	1634.3	1608.4
67.5°	2538.6	2191.2	1929.6	1727.6	1565.8	1452.8	1389.4	1357.8
70°	2230.7	1817.2	1532.7	1330.3	1183.0	1062.6	1005.2	971.3
72.5°	1534.7	1155.9	914.0	746.0	628.4	527.5	487.7	484.8
75°	689.1	456.4	314.6	242.3	204.1	177.5	169.2	163.0
77.5°	192.8	142.6	127.2	119.0	111.0	101.8	98.3	99.0
80°	93.8	88.6	85.1	79.9	72.6	65.0	61.5	62.9
82.5°	62.2	61.5	63.7	59.9	49.5	42.0	35.3	32.3
85°	37.8	38.4	39.1	39.3	33.3	23.4	16.0	17.9
87.5°	14.9	17.2	18.6	19.4	18.2	11.2	9.0	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)