

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: P193349

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193349
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5342 lumens
Efficiency: N/A
Efficacy: 90.5 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

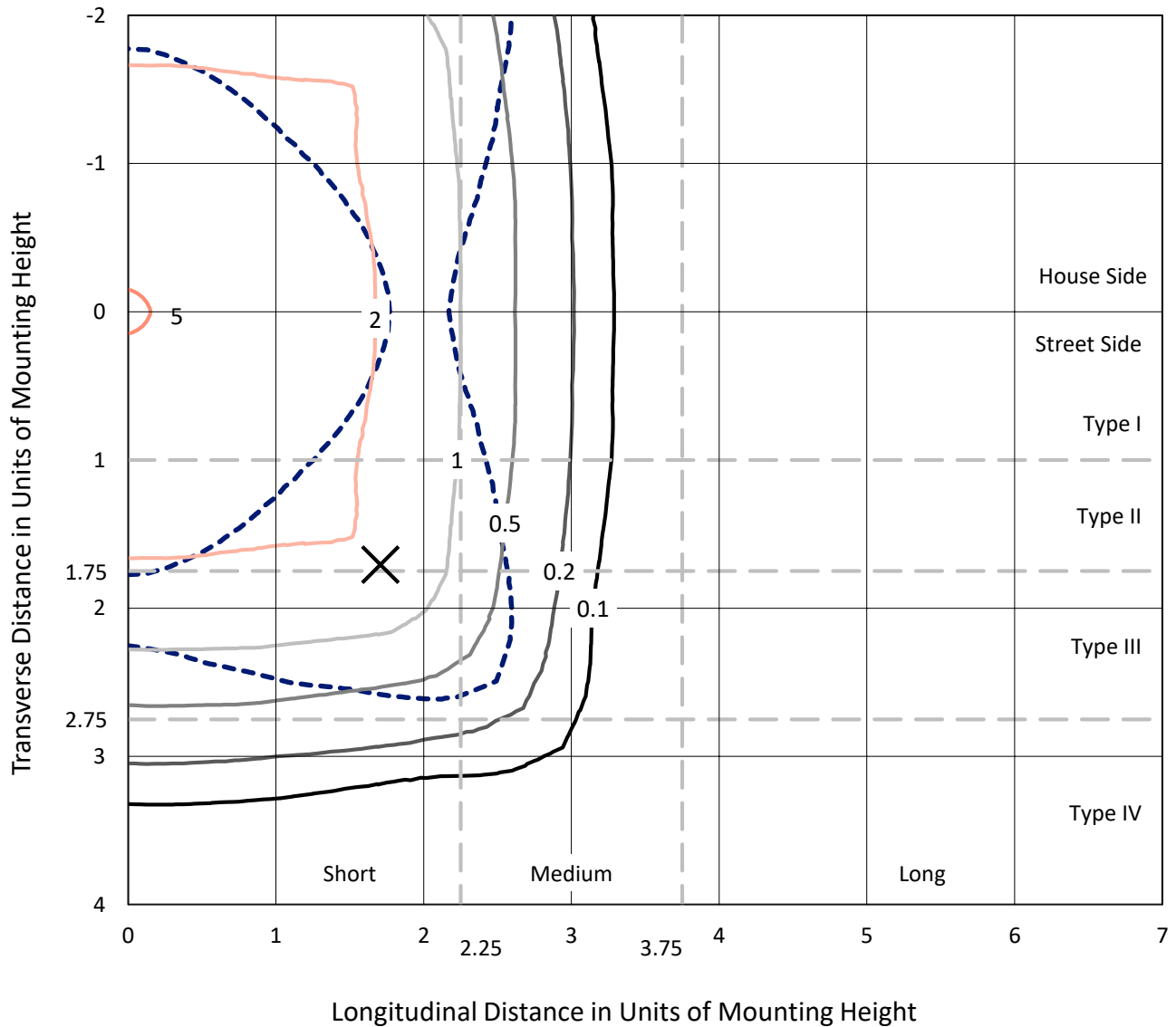
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

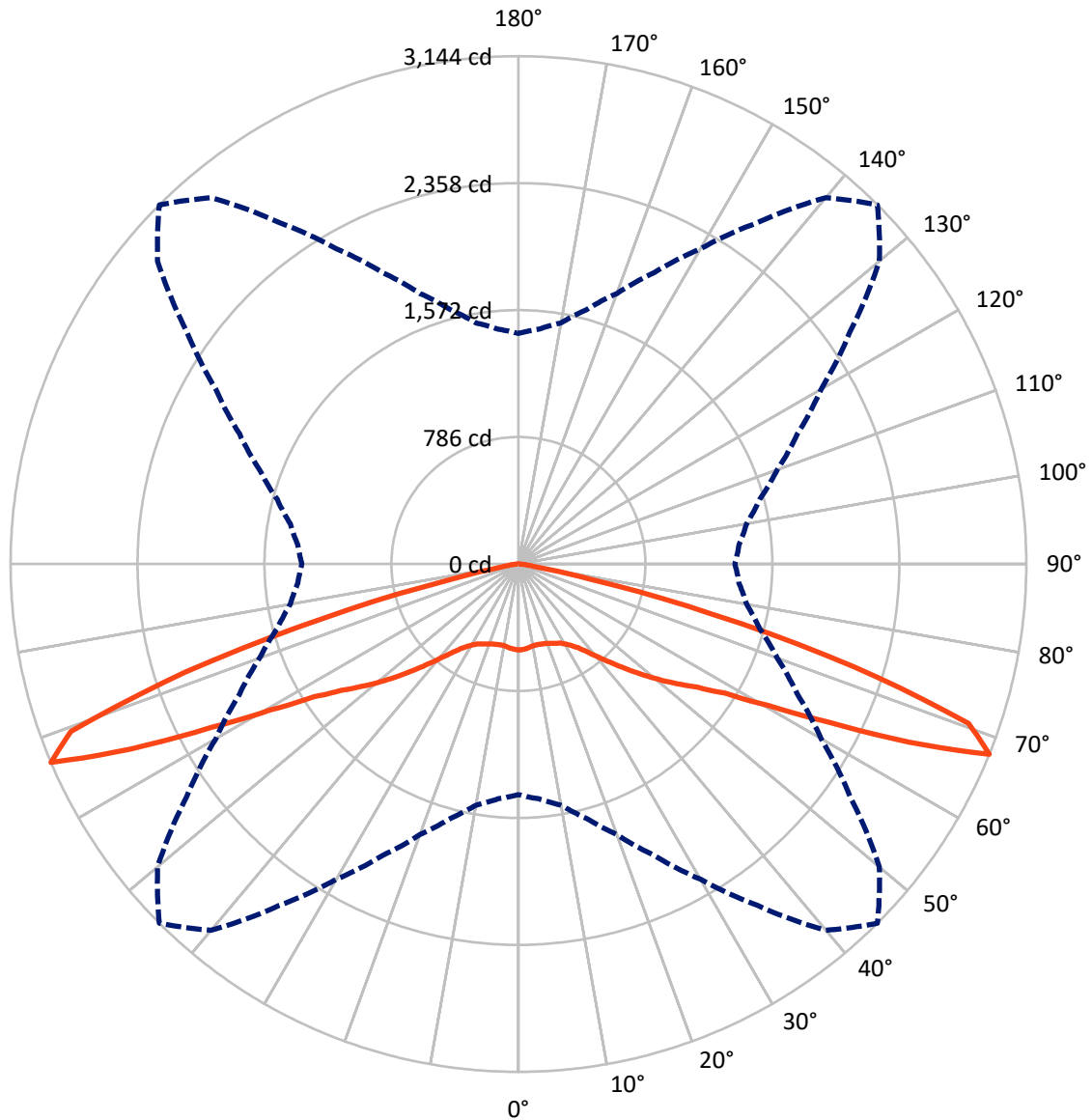
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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	2671.0	0.0	2671.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2671.0	0.0	2671.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5342.0	0.0	5342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	0.9
10°-20°	144.6	2.7
20°-30°	245.8	4.6
30°-40°	401.8	7.5
40°-50°	717.3	13.4
50°-60°	1209.3	22.6
60°-70°	1876.7	35.1
70°-80°	659.4	12.3
80°-90°	37.3	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°	5342.0	100.0
0°-180°	5342.0	100.0



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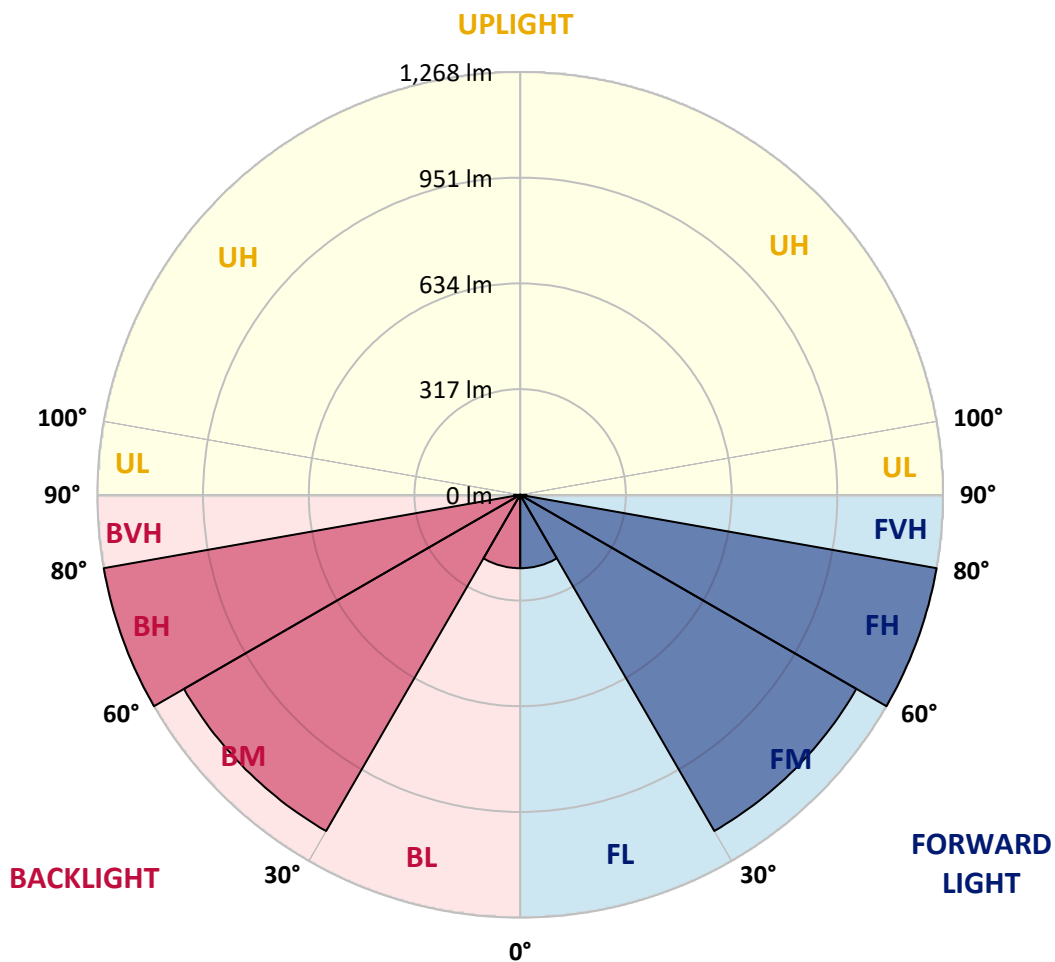
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.1	4.1			
FM	(30°-60°)	1164.2	21.8			
FH	(60°-80°)	1268.1	23.7			G1/1800
FVH	(80°-90°)	18.6	0.3			G1/100
BL	(0°-30°)	220.1	4.1	B1/500		
BM	(30°-60°)	1164.2	21.8	B2/2500		
BH	(60°-80°)	1268.1	23.7	B3/2500		G1/1800
BVH	(80°-90°)	18.6	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°	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4
2.5°	530.4	530.9	530.9	530.9	530.6	530.6	530.1	530.6	530.4	529.7	529.9
5°	526.0	526.5	526.5	526.2	526.9	526.7	526.0	526.5	526.2	525.7	526.0
7.5°	519.6	520.3	520.3	520.1	520.8	520.6	520.1	520.3	520.3	519.6	519.6
10°	512.5	512.9	512.9	512.7	513.9	513.9	513.7	514.4	514.7	513.9	513.4
12.5°	505.8	506.6	506.6	507.5	508.8	509.3	510.5	511.5	512.5	512.2	511.2
15°	501.9	502.4	503.4	504.6	506.6	508.3	510.2	512.5	514.4	514.9	513.4
17.5°	499.4	500.2	501.6	503.4	506.1	509.0	512.0	514.9	517.6	518.6	516.9
20°	498.7	499.2	500.7	503.6	507.3	511.7	515.9	519.3	523.0	524.2	523.0
22.5°	500.2	501.2	502.9	506.3	511.2	516.9	521.8	526.5	531.1	533.3	531.6
25°	506.8	507.8	510.0	514.4	519.8	525.7	531.4	536.8	541.0	543.2	541.9
27.5°	519.1	520.3	523.0	527.4	533.3	539.7	545.9	550.3	553.7	554.5	553.0
30°	537.5	540.2	543.4	548.3	555.2	560.6	566.7	570.7	574.9	574.9	573.6
32.5°	566.3	569.0	572.4	577.1	582.5	588.4	593.8	597.2	601.6	601.9	598.9
35°	609.2	610.5	613.4	616.4	621.3	626.4	631.1	633.3	637.0	637.3	634.5
37.5°	666.0	666.2	668.2	669.2	673.6	679.3	683.7	685.2	688.6	688.1	685.4
40°	732.1	733.3	734.0	735.5	740.2	745.6	750.3	751.0	754.7	753.9	750.5
42.5°	808.5	809.0	813.1	815.4	819.8	822.5	828.4	829.1	833.5	831.6	827.6
45°	894.2	898.6	902.6	907.0	911.7	914.9	919.5	918.5	921.5	918.5	916.3
47.5°	984.4	987.6	996.4	1003.3	1010.9	1013.6	1020.2	1017.3	1020.2	1016.1	1015.3
50°	1083.6	1089.3	1096.9	1104.7	1112.9	1117.3	1125.9	1122.2	1126.1	1122.2	1120.0
52.5°	1181.4	1182.9	1199.6	1211.1	1222.4	1227.6	1232.7	1231.0	1231.3	1231.0	1228.8
55°	1274.3	1277.7	1294.4	1310.1	1329.8	1344.3	1353.1	1352.1	1349.9	1347.7	1344.0
57.5°	1378.9	1382.3	1401.5	1420.9	1443.3	1463.9	1481.8	1500.3	1507.4	1509.4	1501.2
60°	1520.4	1520.2	1545.7	1569.3	1601.2	1631.9	1671.2	1711.3	1757.2	1778.6	1750.4
62.5°	1664.4	1670.3	1707.1	1748.9	1814.7	1878.8	1951.3	2022.5	2095.3	2154.5	2091.6
65°	1647.2	1669.8	1724.6	1819.1	1940.7	2085.2	2241.4	2406.8	2556.1	2658.8	2543.6
67.5°	1427.6	1459.7	1515.5	1630.5	1782.5	1990.9	2253.2	2580.2	2960.2	3144.0	2916.3
70°	1034.7	1071.1	1129.6	1241.8	1392.4	1590.4	1875.4	2268.0	2771.1	2956.3	2705.5
72.5°	514.9	534.6	570.7	642.2	756.2	916.8	1175.3	1552.6	1997.7	2167.7	1938.5
75°	174.9	184.0	190.1	213.5	249.6	312.7	441.2	678.8	1035.5	1241.3	1020.7
77.5°	101.0	101.2	105.4	109.6	115.7	122.6	139.8	183.5	317.4	450.8	328.5
80°	65.3	65.1	68.5	71.7	75.9	79.3	80.3	85.0	98.0	116.2	103.9
82.5°	33.9	38.1	45.7	49.9	57.7	59.2	57.2	55.5	58.7	60.9	62.4
85°	18.7	16.2	24.3	31.4	34.9	35.4	35.4	33.4	34.6	33.9	36.8
87.5°	8.6	7.9	9.6	15.5	16.5	14.0	14.7	13.0	9.3	9.1	10.3
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°	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4
2.5°	529.9	530.1	530.1	530.9	531.1	531.6	532.1	532.4
5°	525.7	526.5	526.0	526.7	526.7	527.2	527.2	527.4
7.5°	519.6	520.3	520.3	520.3	520.1	520.8	520.8	520.8
10°	513.2	513.7	513.4	512.9	512.5	513.2	512.9	512.7
12.5°	511.2	510.0	509.0	508.5	507.5	507.8	507.0	507.0
15°	512.5	510.2	508.5	507.8	506.8	506.3	505.8	506.1
17.5°	515.6	512.9	510.7	509.5	508.3	507.5	506.6	506.8
20°	521.3	518.1	514.9	512.5	510.2	509.0	508.3	508.0
22.5°	529.7	525.0	520.3	516.6	513.7	512.0	511.2	510.7
25°	539.2	534.1	528.7	524.5	521.5	519.3	517.9	517.9
27.5°	551.3	547.1	542.2	537.3	534.6	532.4	531.4	530.9
30°	571.4	567.5	563.6	558.9	555.4	553.2	551.5	550.0
32.5°	597.2	594.0	590.8	587.4	584.2	581.2	578.5	577.3
35°	633.6	631.1	628.9	625.0	623.7	622.0	620.5	619.3
37.5°	683.7	682.7	682.7	678.5	677.5	676.8	675.3	675.6
40°	749.5	750.5	749.3	747.8	747.1	745.1	745.1	746.8
42.5°	827.4	828.1	830.8	828.4	831.1	828.6	827.1	828.4
45°	917.8	920.5	925.9	923.4	925.2	921.0	915.8	916.1
47.5°	1019.3	1021.7	1023.9	1022.2	1022.5	1015.6	1008.7	1007.0
50°	1124.6	1125.6	1126.9	1124.4	1124.9	1117.3	1109.4	1109.7
52.5°	1228.8	1233.5	1238.4	1231.8	1230.3	1221.7	1210.6	1206.2
55°	1348.0	1354.6	1348.9	1337.4	1325.8	1314.3	1299.8	1297.3
57.5°	1494.9	1483.6	1465.9	1444.0	1428.0	1411.8	1397.1	1390.9
60°	1699.3	1656.8	1624.8	1592.4	1572.0	1552.1	1532.7	1529.7
62.5°	1988.2	1914.7	1851.1	1784.0	1729.2	1686.5	1652.3	1642.8
65°	2350.3	2176.6	2026.0	1885.5	1763.4	1671.2	1613.3	1587.7
67.5°	2506.0	2163.1	1904.9	1705.4	1545.7	1434.2	1371.5	1340.3
70°	2202.1	1793.8	1513.0	1313.3	1167.9	1049.0	992.2	958.8
72.5°	1515.0	1141.1	902.3	736.5	620.3	520.8	481.5	478.6
75°	680.2	450.5	310.5	239.3	201.4	175.2	167.1	160.9
77.5°	190.4	140.8	125.5	117.4	109.6	100.5	97.0	97.8
80°	92.6	87.5	84.0	78.9	71.7	64.1	60.7	62.2
82.5°	61.4	60.7	62.9	59.2	48.9	41.5	34.9	31.9
85°	37.3	37.8	38.6	38.8	32.9	23.1	15.7	17.7
87.5°	14.7	17.0	18.4	19.2	17.9	11.1	8.8	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)