

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: P200221

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200221
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: GWC-AF-01-LED-E1-5MQ-7050-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 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: 5396 lumens
Efficiency: N/A
Efficacy: 122.6 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

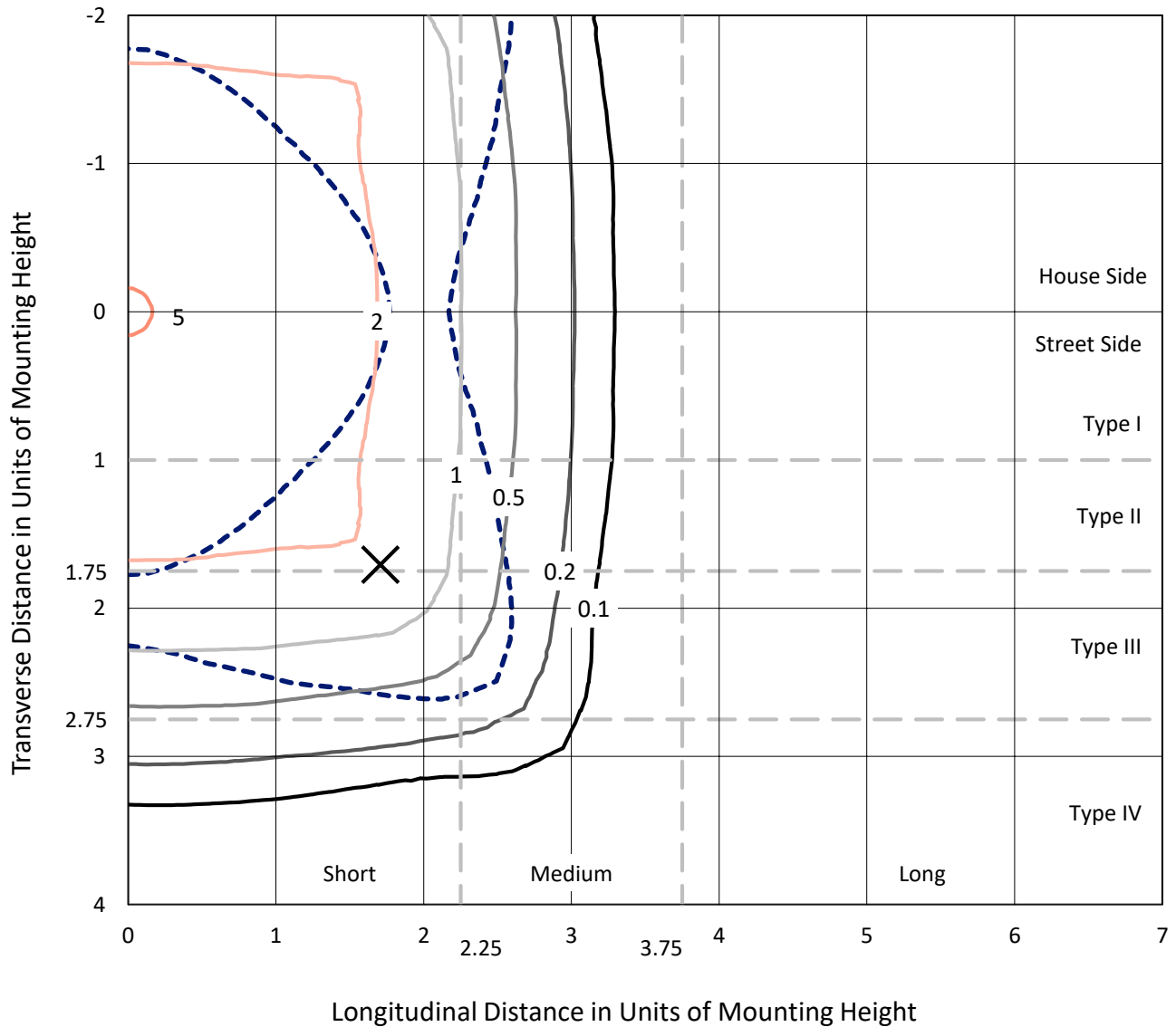
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

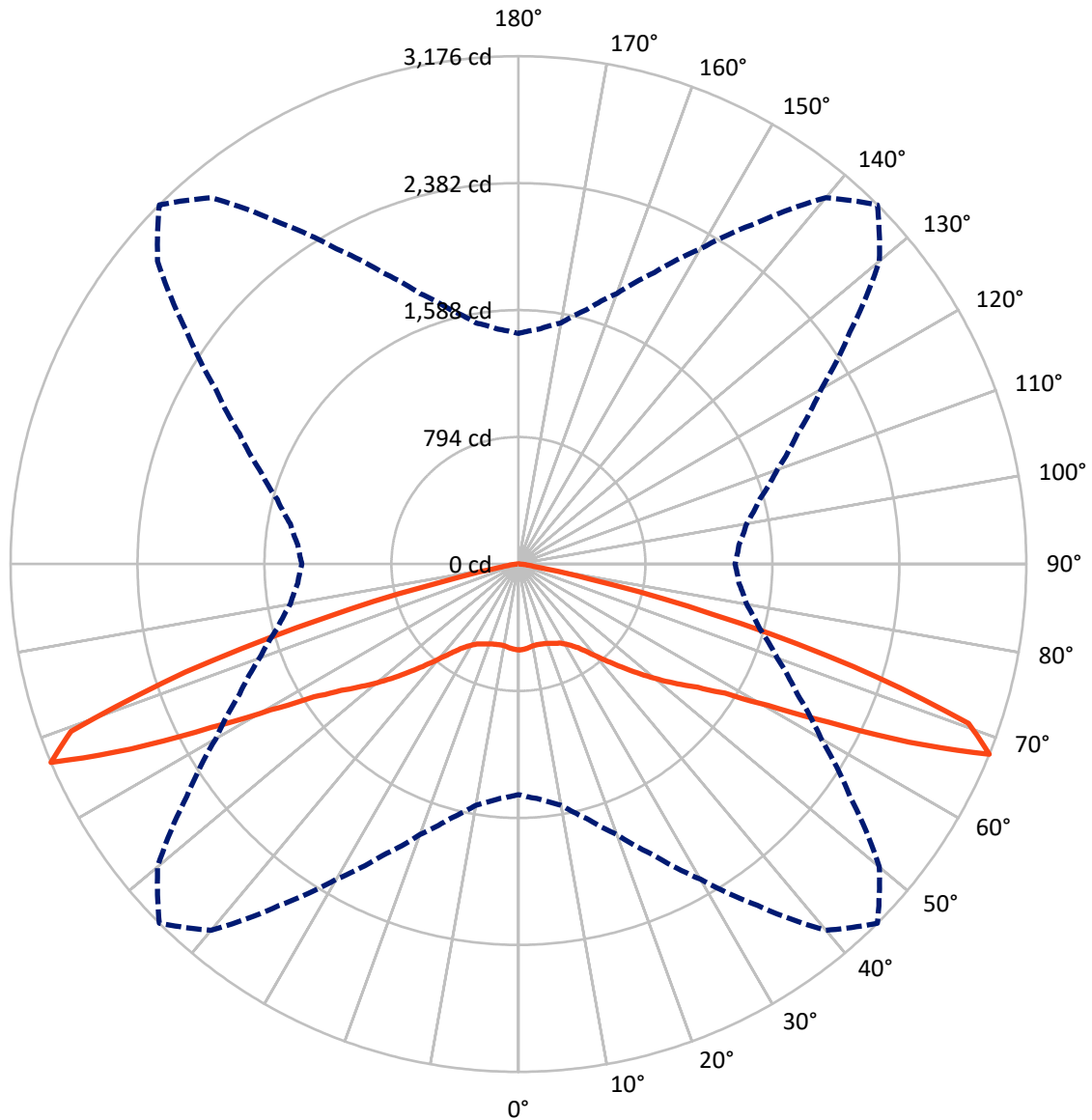
× Max cd
 - - - 1/2 Max cd



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	2698.0	0.0	2698.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2698.0	0.0	2698.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5396.0	0.0	5396.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	0.9
10°-20°	146.0	2.7
20°-30°	248.3	4.6
30°-40°	405.9	7.5
40°-50°	724.5	13.4
50°-60°	1221.6	22.6
60°-70°	1895.7	35.1
70°-80°	666.1	12.3
80°-90°	37.6	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°	5396.0	100.0
0°-180°	5396.0	100.0



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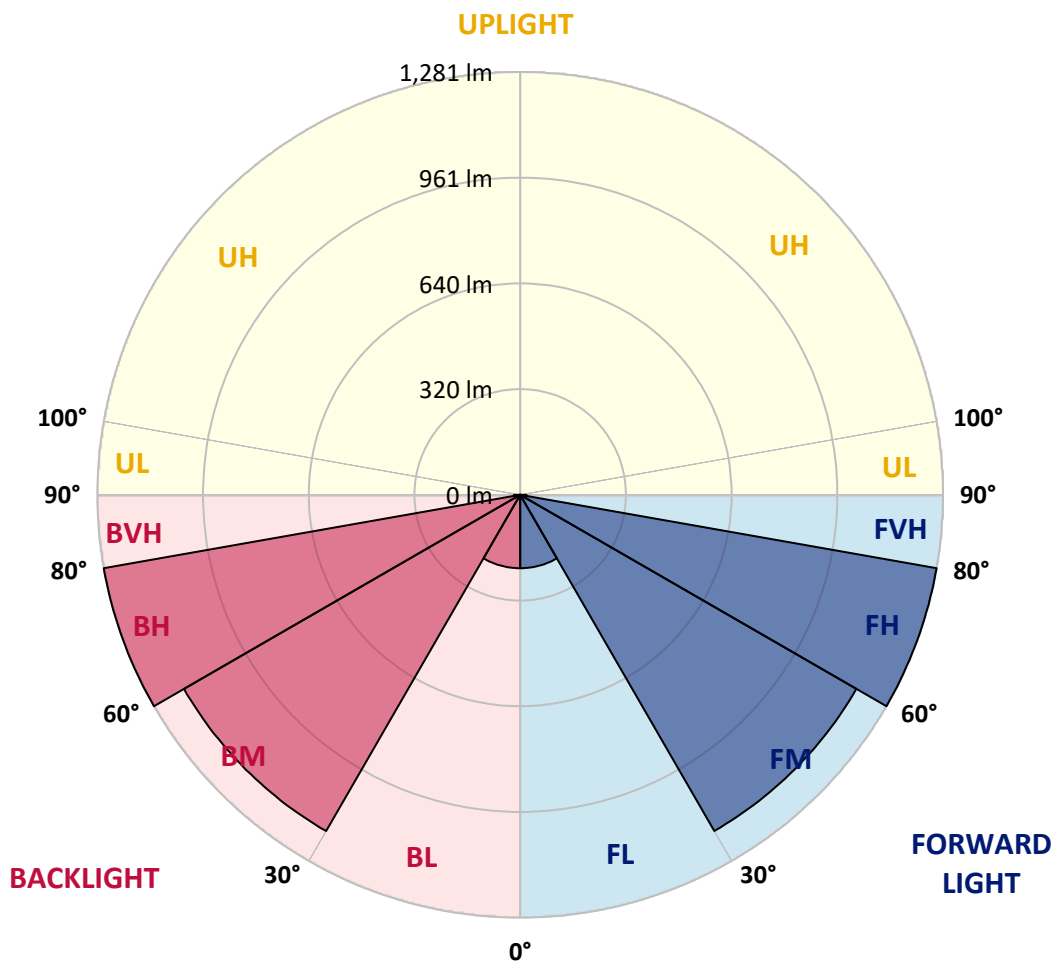
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	222.3	4.1			
FM	(30°-60°)	1176.0	21.8			
FH	(60°-80°)	1280.9	23.7			G1/1800
FVH	(80°-90°)	18.8	0.3			G1/100
BL	(0°-30°)	222.3	4.1	B1/500		
BM	(30°-60°)	1176.0	21.8	B2/2500		
BH	(60°-80°)	1280.9	23.7	B3/2500		G1/1800
BVH	(80°-90°)	18.8	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°	537.7	537.7	537.7	537.7	537.7	537.7	537.7	537.7	537.7	537.7	537.7
2.5°	535.7	536.2	536.2	536.2	536.0	536.0	535.5	536.0	535.7	535.0	535.3
5°	531.3	531.8	531.8	531.5	532.3	532.0	531.3	531.8	531.5	531.0	531.3
7.5°	524.8	525.6	525.6	525.3	526.1	525.8	525.3	525.6	525.6	524.8	524.8
10°	517.6	518.1	518.1	517.9	519.1	519.1	518.9	519.6	519.9	519.1	518.6
12.5°	510.9	511.7	511.7	512.7	513.9	514.4	515.6	516.6	517.6	517.4	516.4
15°	507.0	507.5	508.5	509.7	511.7	513.4	515.4	517.6	519.6	520.1	518.6
17.5°	504.5	505.2	506.7	508.5	511.2	514.2	517.1	520.1	522.8	523.8	522.1
20°	503.7	504.2	505.7	508.7	512.4	516.9	521.1	524.6	528.3	529.5	528.3
22.5°	505.2	506.2	508.0	511.4	516.4	522.1	527.1	531.8	536.5	538.7	537.0
25°	511.9	512.9	515.2	519.6	525.1	531.0	536.7	542.2	546.4	548.7	547.4
27.5°	524.3	525.6	528.3	532.8	538.7	545.2	551.4	555.8	559.3	560.1	558.6
30°	542.9	545.7	548.9	553.9	560.8	566.3	572.5	576.4	580.7	580.7	579.4
32.5°	572.0	574.7	578.2	582.9	588.4	594.3	599.8	603.2	607.7	608.0	605.0
35°	615.4	616.6	619.6	622.6	627.6	632.8	637.5	639.7	643.4	643.7	641.0
37.5°	672.7	673.0	675.0	676.0	680.4	686.1	690.6	692.1	695.6	695.1	692.3
40°	739.5	740.7	741.5	743.0	747.7	753.1	757.8	758.6	762.3	761.6	758.1
42.5°	816.7	817.1	821.4	823.6	828.1	830.8	836.8	837.5	842.0	840.0	836.0
45°	903.3	907.7	911.7	916.2	920.9	924.1	928.8	927.8	930.8	927.8	925.6
47.5°	994.3	997.6	1006.5	1013.4	1021.1	1023.9	1030.6	1027.6	1030.6	1026.3	1025.6
50°	1094.6	1100.3	1108.0	1115.9	1124.1	1128.6	1137.3	1133.5	1137.5	1133.5	1131.3
52.5°	1193.3	1194.8	1211.7	1223.4	1234.8	1240.0	1245.2	1243.5	1243.7	1243.5	1241.2
55°	1287.1	1290.6	1307.5	1323.4	1343.2	1357.9	1366.8	1365.8	1363.6	1361.3	1357.6
57.5°	1392.8	1396.3	1415.7	1435.3	1457.9	1478.7	1496.8	1515.4	1522.6	1524.6	1516.4
60°	1535.8	1535.5	1561.3	1585.2	1617.4	1648.4	1688.1	1728.6	1775.0	1796.6	1768.0
62.5°	1681.2	1687.2	1724.4	1766.6	1833.1	1897.8	1971.0	2043.0	2116.4	2176.2	2112.7
65°	1663.8	1686.7	1742.0	1837.5	1960.4	2106.3	2264.1	2431.1	2582.0	2685.7	2569.3
67.5°	1442.0	1474.5	1530.8	1647.0	1800.6	2011.0	2276.0	2606.3	2990.2	3175.8	2945.8
70°	1045.2	1081.9	1141.0	1254.4	1406.5	1606.5	1894.4	2290.9	2799.1	2986.2	2732.8
72.5°	520.1	540.0	576.4	648.7	763.8	926.1	1187.1	1568.3	2017.9	2189.6	1958.1
75°	176.7	185.9	192.1	215.6	252.1	315.9	445.7	685.6	1045.9	1253.9	1031.1
77.5°	102.0	102.2	106.5	110.7	116.9	123.8	141.2	185.4	320.6	455.3	331.8
80°	66.0	65.8	69.2	72.5	76.7	80.2	81.1	85.9	99.0	117.4	105.0
82.5°	34.2	38.5	46.2	50.4	58.3	59.8	57.8	56.1	59.3	61.5	63.0
85°	18.9	16.4	24.6	31.8	35.2	35.7	35.7	33.7	35.0	34.2	37.2
87.5°	8.7	7.9	9.7	15.6	16.6	14.1	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°	537.7	537.7	537.7	537.7	537.7	537.7	537.7	537.7
2.5°	535.3	535.5	535.5	536.2	536.5	537.0	537.5	537.7
5°	531.0	531.8	531.3	532.0	532.0	532.5	532.5	532.8
7.5°	524.8	525.6	525.6	525.6	525.3	526.1	526.1	526.1
10°	518.4	518.9	518.6	518.1	517.6	518.4	518.1	517.9
12.5°	516.4	515.2	514.2	513.7	512.7	512.9	512.2	512.2
15°	517.6	515.4	513.7	512.9	511.9	511.4	510.9	511.2
17.5°	520.9	518.1	515.9	514.7	513.4	512.7	511.7	511.9
20°	526.6	523.3	520.1	517.6	515.4	514.2	513.4	513.2
22.5°	535.0	530.3	525.6	521.9	518.9	517.1	516.4	515.9
25°	544.7	539.5	534.0	529.8	526.8	524.6	523.1	523.1
27.5°	556.8	552.6	547.7	542.7	540.0	537.7	536.7	536.2
30°	577.2	573.2	569.2	564.5	561.1	558.8	557.1	555.6
32.5°	603.2	600.0	596.8	593.3	590.1	587.1	584.4	583.1
35°	640.0	637.5	635.3	631.3	630.0	628.3	626.8	625.6
37.5°	690.6	689.6	689.6	685.4	684.4	683.6	682.2	682.4
40°	757.1	758.1	756.8	755.4	754.6	752.6	752.6	754.4
42.5°	835.8	836.5	839.2	836.8	839.5	837.0	835.5	836.8
45°	927.1	929.8	935.3	932.8	934.5	930.3	925.1	925.3
47.5°	1029.6	1032.0	1034.3	1032.5	1032.8	1025.8	1018.9	1017.2
50°	1136.0	1137.0	1138.2	1135.8	1136.3	1128.6	1120.6	1120.9
52.5°	1241.2	1245.9	1250.9	1244.2	1242.7	1234.0	1222.9	1218.4
55°	1361.6	1368.3	1362.6	1350.9	1339.2	1327.6	1312.9	1310.5
57.5°	1510.0	1498.6	1480.7	1458.6	1442.5	1426.1	1411.2	1405.0
60°	1716.4	1673.5	1641.2	1608.5	1587.9	1567.8	1548.2	1545.2
62.5°	2008.3	1934.1	1869.8	1802.0	1746.7	1703.5	1669.0	1659.4
65°	2374.0	2198.6	2046.5	1904.5	1781.2	1688.1	1629.6	1603.8
67.5°	2531.3	2184.9	1924.1	1722.6	1561.3	1448.7	1385.4	1353.9
70°	2224.4	1812.0	1528.3	1326.6	1179.7	1059.6	1002.3	968.5
72.5°	1530.3	1152.6	911.4	743.9	626.6	526.1	486.4	483.4
75°	687.1	455.1	313.7	241.7	203.5	176.9	168.7	162.5
77.5°	192.3	142.2	126.8	118.6	110.7	101.5	98.0	98.8
80°	93.6	88.3	84.9	79.7	72.5	64.8	61.3	62.8
82.5°	62.0	61.3	63.5	59.8	49.4	41.9	35.2	32.3
85°	37.7	38.2	39.0	39.2	33.3	23.3	15.9	17.9
87.5°	14.9	17.1	18.6	19.4	18.1	11.2	8.9	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)