

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: P270137

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270137
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-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 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: 5801.5 lumens
Efficiency: N/A
Efficacy: 98.3 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

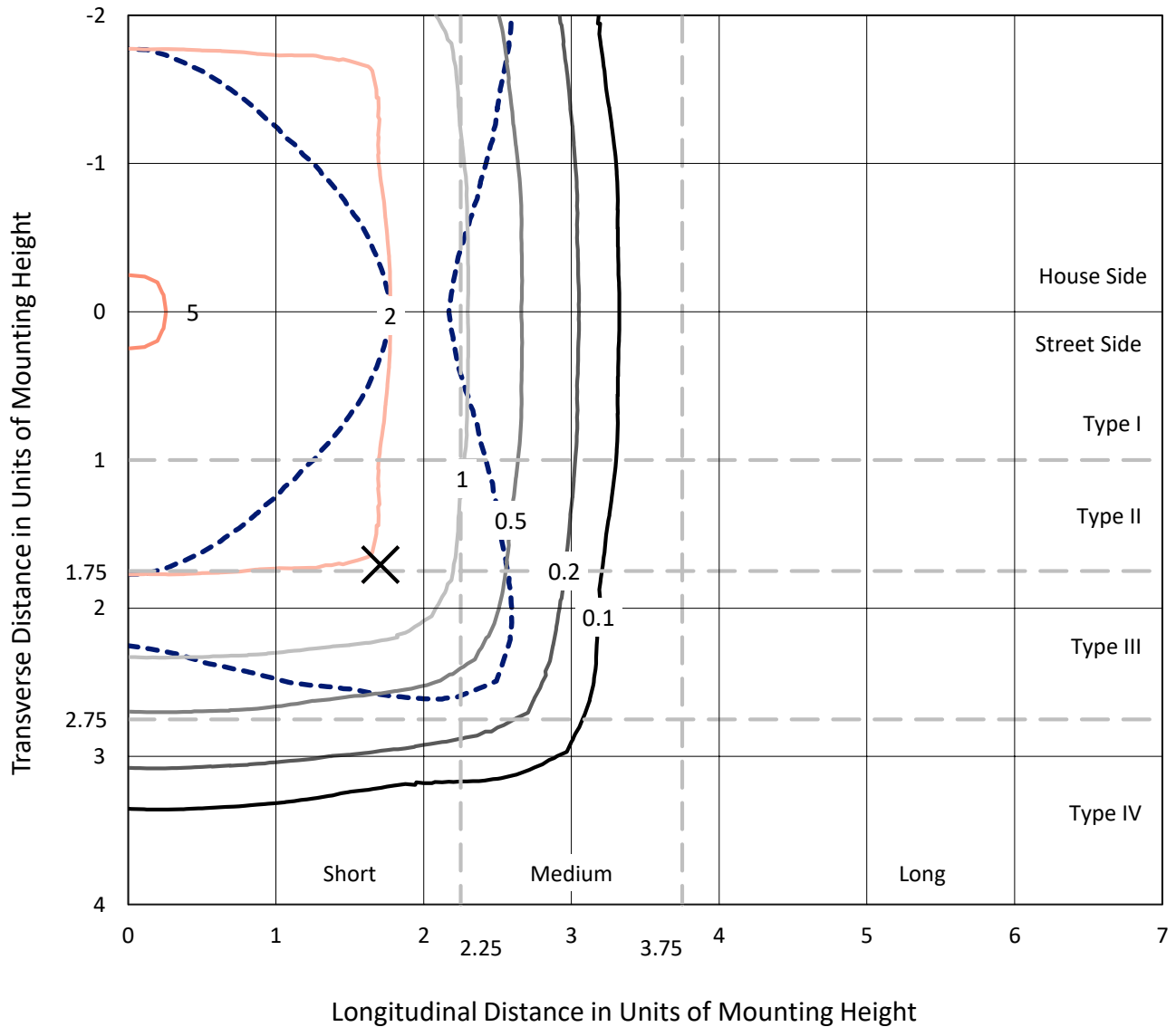
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

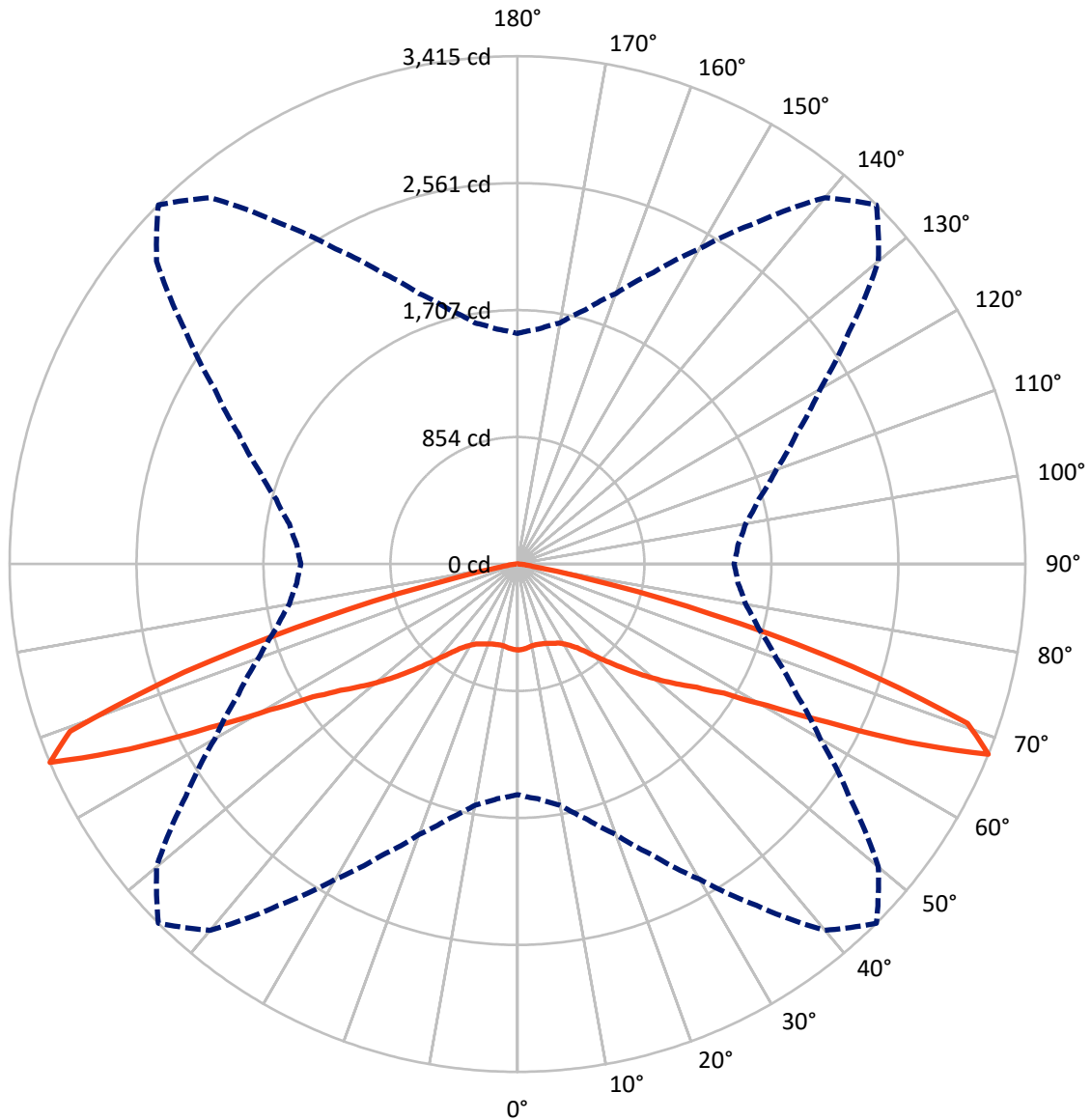
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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	2900.8	0.0	2900.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2900.8	0.0	2900.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5801.5	0.0	5801.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	0.9
10°-20°	157.0	2.7
20°-30°	266.9	4.6
30°-40°	436.4	7.5
40°-50°	779.0	13.4
50°-60°	1313.4	22.6
60°-70°	2038.1	35.1
70°-80°	716.1	12.3
80°-90°	40.5	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°	5801.5	100.0
0°-180°	5801.5	100.0



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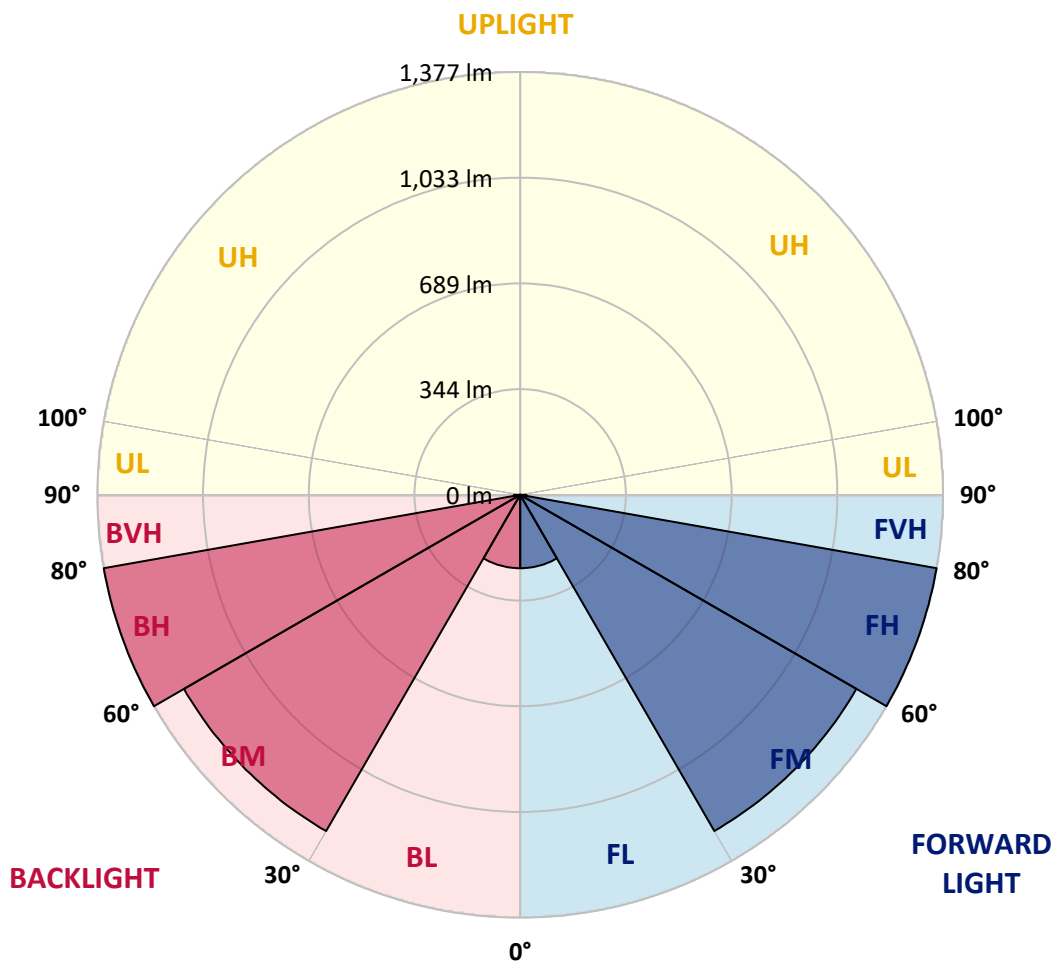
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.0	4.1			
FM	(30°-60°)	1264.4	21.8			
FH	(60°-80°)	1377.1	23.7			G1/1800
FVH	(80°-90°)	20.2	0.3			G1/100
BL	(0°-30°)	239.0	4.1	B1/500		
BM	(30°-60°)	1264.4	21.8	B2/2500		
BH	(60°-80°)	1377.1	23.7	B3/2500		G1/1800
BVH	(80°-90°)	20.2	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°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
2.5°	576.1	576.5	576.5	576.5	576.4	576.4	575.8	576.4	576.1	575.3	575.5
5°	571.2	571.7	571.7	571.5	572.3	572.0	571.2	571.7	571.5	571.0	571.2
7.5°	564.2	565.0	565.0	564.9	565.7	565.4	564.9	565.0	565.0	564.2	564.2
10°	556.5	557.0	557.0	556.8	558.1	558.1	557.8	558.7	558.9	558.1	557.6
12.5°	549.4	550.1	550.1	551.2	552.5	553.0	554.4	555.5	556.5	556.3	555.2
15°	545.0	545.6	546.7	548.0	550.1	552.0	554.2	556.5	558.7	559.3	557.6
17.5°	542.3	543.1	544.8	546.7	549.7	552.7	556.1	559.3	562.1	563.1	561.4
20°	541.6	542.1	543.7	547.0	550.9	555.7	560.3	564.0	568.0	569.3	568.0
22.5°	543.1	544.3	546.1	549.9	555.2	561.4	566.7	571.7	576.8	579.1	577.3
25°	550.4	551.5	553.9	558.7	564.6	571.0	577.2	582.9	587.5	589.8	588.6
27.5°	563.7	565.0	568.0	572.8	579.1	586.1	592.8	597.6	601.3	602.1	600.5
30°	583.8	586.8	590.1	595.4	602.9	608.8	615.5	619.8	624.3	624.3	623.0
32.5°	615.0	617.9	621.6	626.7	632.5	639.0	644.9	648.5	653.3	653.6	650.5
35°	661.6	662.9	666.3	669.3	674.7	680.3	685.3	687.8	691.9	692.1	689.1
37.5°	723.2	723.6	725.7	726.8	731.6	737.7	742.4	744.1	747.7	747.3	744.3
40°	795.1	796.3	797.2	798.9	803.9	809.7	814.9	815.7	819.7	818.7	815.0
42.5°	878.1	878.5	883.2	885.5	890.3	893.3	899.7	900.5	905.2	903.1	898.8
45°	971.2	976.0	980.2	985.0	990.1	993.5	998.6	997.6	1000.7	997.6	995.1
47.5°	1069.1	1072.5	1082.1	1089.6	1097.9	1100.9	1108.0	1104.7	1108.0	1103.5	1102.7
50°	1176.8	1183.0	1191.2	1199.7	1208.6	1213.4	1222.8	1218.7	1223.0	1218.7	1216.3
52.5°	1283.0	1284.7	1302.7	1315.3	1327.5	1333.2	1338.7	1336.9	1337.1	1336.9	1334.5
55°	1383.8	1387.6	1405.8	1422.8	1444.1	1459.9	1469.4	1468.5	1466.0	1463.7	1459.7
57.5°	1497.6	1501.2	1522.1	1543.2	1567.5	1589.8	1609.4	1629.3	1637.2	1639.1	1630.5
60°	1651.3	1650.9	1678.8	1704.4	1738.9	1772.4	1815.0	1858.6	1908.4	1931.6	1901.0
62.5°	1807.5	1813.9	1853.9	1899.3	1970.8	2040.5	2119.1	2196.5	2275.4	2339.8	2271.5
65°	1788.9	1813.4	1872.8	1975.6	2107.8	2264.5	2434.2	2613.8	2776.0	2887.5	2762.4
67.5°	1550.4	1585.2	1645.9	1770.6	1935.8	2162.1	2447.1	2802.2	3214.9	3414.5	3167.2
70°	1123.7	1163.2	1226.7	1348.6	1512.1	1727.3	2036.7	2463.1	3009.4	3210.6	2938.3
72.5°	559.3	580.6	619.8	697.4	821.2	995.7	1276.3	1686.2	2169.5	2354.2	2105.3
75°	189.9	199.9	206.5	231.9	271.1	339.6	479.2	737.1	1124.6	1348.1	1108.6
77.5°	109.7	110.0	114.4	118.9	125.7	133.0	151.9	199.3	344.7	489.5	356.6
80°	71.0	70.6	74.4	78.0	82.5	86.1	87.2	92.3	106.4	126.2	112.8
82.5°	36.8	41.3	49.6	54.2	62.7	64.3	62.2	60.2	63.8	66.1	67.7
85°	20.3	17.5	26.4	34.1	37.9	38.4	38.4	36.3	37.5	36.8	40.1
87.5°	9.3	8.5	10.4	16.8	17.8	15.2	16.0	14.2	10.2	9.9	11.1
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°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
2.5°	575.5	575.8	575.8	576.5	576.8	577.3	577.9	578.1
5°	571.0	571.7	571.2	572.0	572.0	572.5	572.5	572.8
7.5°	564.2	565.0	565.0	565.0	564.9	565.7	565.7	565.7
10°	557.4	557.8	557.6	557.0	556.5	557.4	557.0	556.8
12.5°	555.2	553.9	552.7	552.3	551.2	551.5	550.8	550.8
15°	556.5	554.2	552.3	551.5	550.4	549.9	549.4	549.7
17.5°	560.1	557.0	554.7	553.4	552.0	551.2	550.1	550.4
20°	566.1	562.7	559.3	556.5	554.2	552.7	552.0	551.6
22.5°	575.3	570.2	565.0	561.1	557.8	556.1	555.2	554.7
25°	585.6	580.0	574.1	569.6	566.4	564.0	562.3	562.3
27.5°	598.7	594.1	588.7	583.4	580.6	578.1	577.2	576.5
30°	620.5	616.2	612.0	607.0	603.2	600.8	599.0	597.4
32.5°	648.5	645.2	641.7	637.8	634.5	631.2	628.4	626.9
35°	688.1	685.3	683.0	678.7	677.4	675.5	673.9	672.7
37.5°	742.4	741.5	741.5	736.9	735.8	735.1	733.5	733.6
40°	814.0	815.0	813.8	812.2	811.3	809.3	809.3	811.1
42.5°	898.6	899.4	902.3	899.7	902.5	899.9	898.3	899.7
45°	996.8	999.6	1005.6	1002.9	1004.8	1000.3	994.7	995.0
47.5°	1106.9	1109.5	1112.0	1110.1	1110.5	1102.8	1095.5	1093.5
50°	1221.3	1222.5	1223.9	1221.2	1221.7	1213.4	1204.8	1205.2
52.5°	1334.5	1339.6	1344.9	1337.8	1336.0	1326.7	1314.8	1310.0
55°	1463.9	1471.2	1465.0	1452.4	1440.0	1427.3	1411.6	1408.9
57.5°	1623.4	1611.2	1591.9	1568.3	1550.8	1533.2	1517.2	1510.6
60°	1845.4	1799.2	1764.6	1729.3	1707.1	1685.6	1664.5	1661.3
62.5°	2159.2	2079.3	2010.2	1937.5	1877.9	1831.6	1794.5	1784.0
65°	2552.4	2363.8	2200.3	2047.6	1915.0	1815.0	1752.1	1724.2
67.5°	2721.5	2349.2	2068.7	1852.0	1678.8	1557.5	1489.5	1455.7
70°	2391.6	1948.2	1643.2	1426.2	1268.3	1139.2	1077.5	1041.3
72.5°	1645.3	1239.3	980.0	799.9	673.6	565.7	523.0	519.7
75°	738.8	489.2	337.3	259.9	218.7	190.3	181.4	174.7
77.5°	206.8	152.9	136.4	127.5	118.9	109.1	105.5	106.2
80°	100.6	95.0	91.3	85.7	78.0	69.6	65.8	67.6
82.5°	66.7	65.8	68.4	64.3	53.1	45.0	37.9	34.7
85°	40.6	41.1	42.0	42.1	35.8	25.2	17.1	19.3
87.5°	16.0	18.4	20.0	20.8	19.5	11.9	9.6	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)