

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: P199901

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199901
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-7030-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 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: 5219.3 lumens
Efficiency: N/A
Efficacy: 118.6 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

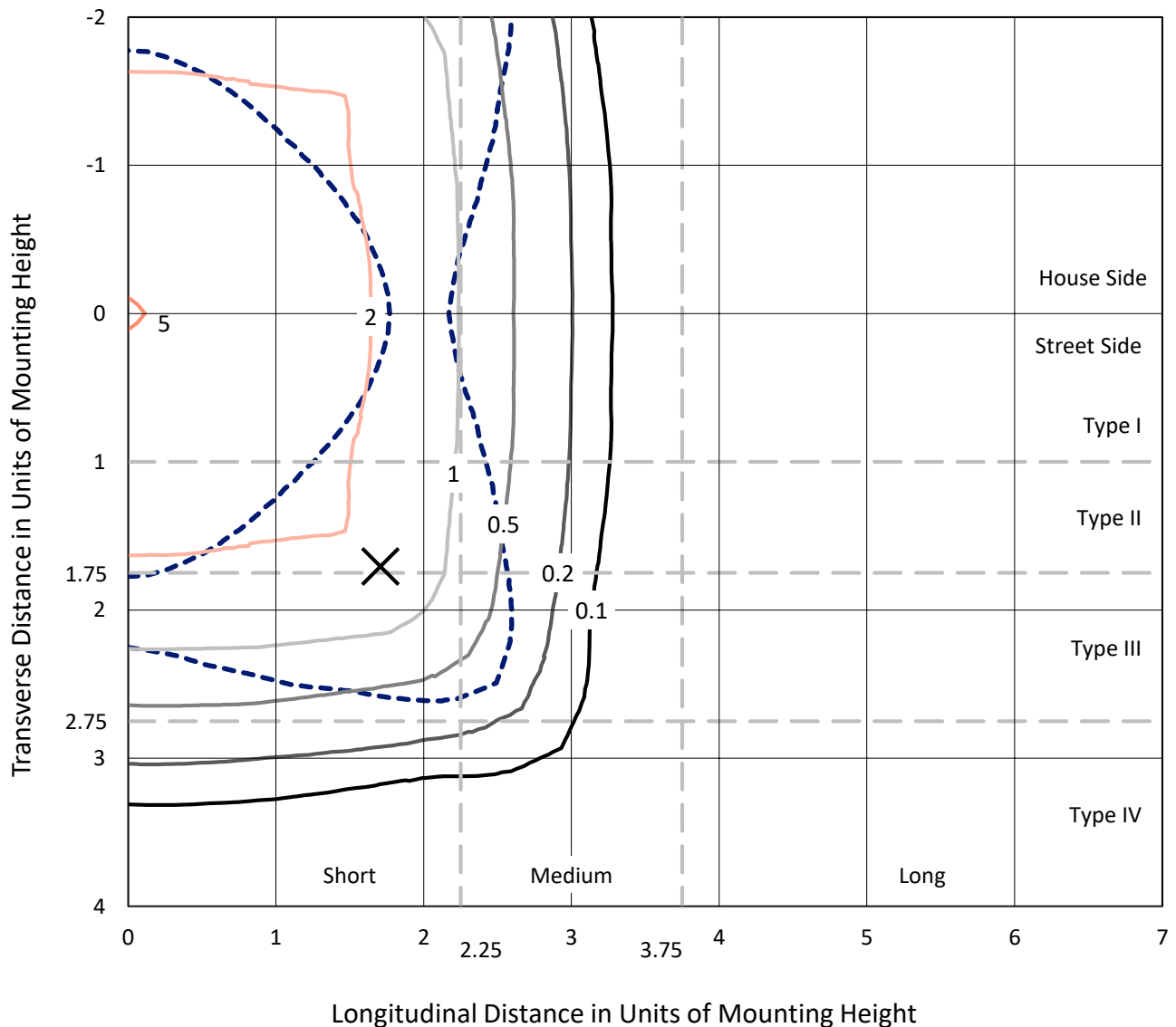
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

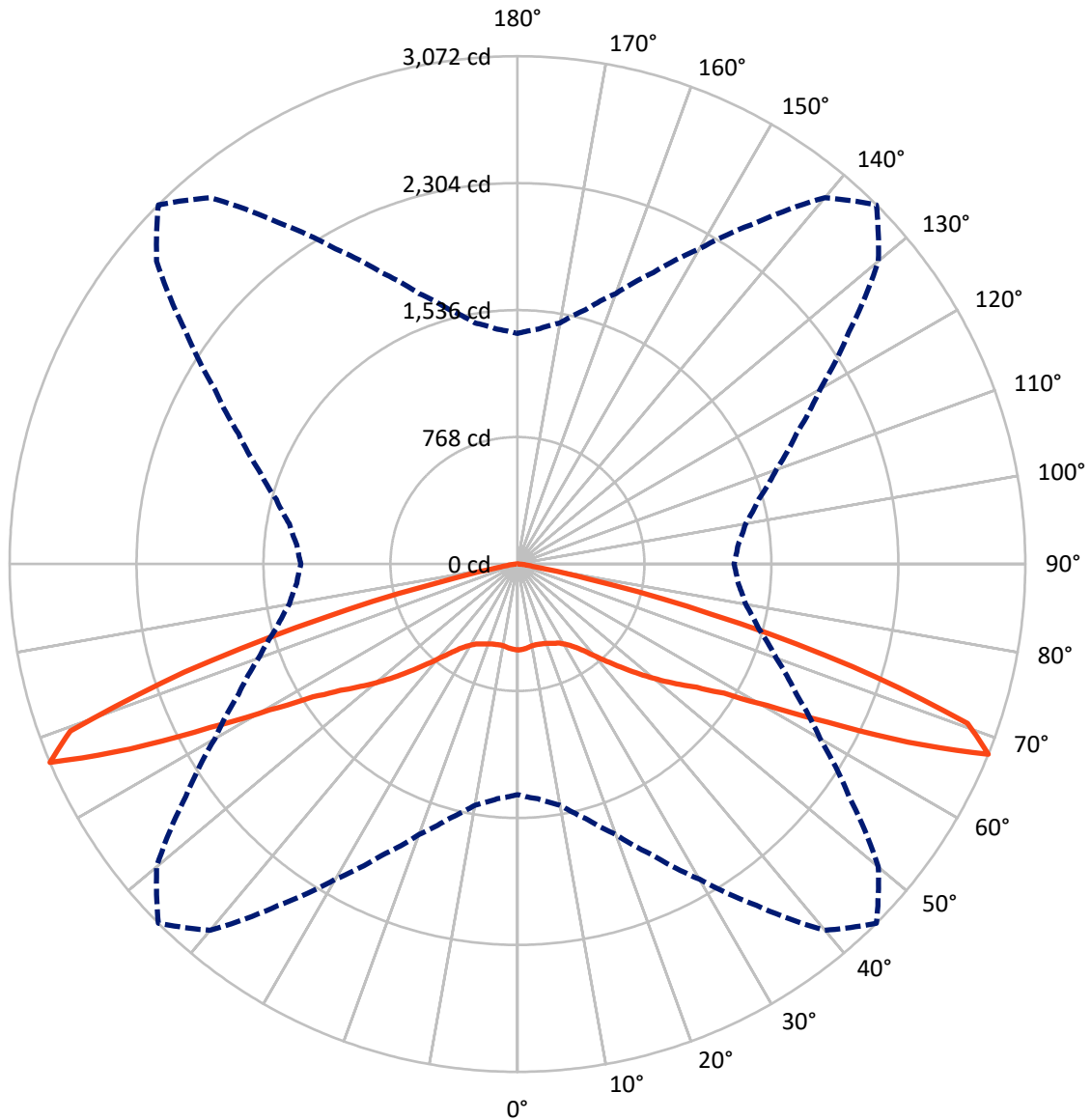
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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	2609.6	0.0	2609.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2609.6	0.0	2609.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5219.3	0.0	5219.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	0.9
10°-20°	141.3	2.7
20°-30°	240.1	4.6
30°-40°	392.6	7.5
40°-50°	700.8	13.4
50°-60°	1181.6	22.6
60°-70°	1833.6	35.1
70°-80°	644.3	12.3
80°-90°	36.4	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°	5219.3	100.0
0°-180°	5219.3	100.0

Coefficient of Utilization



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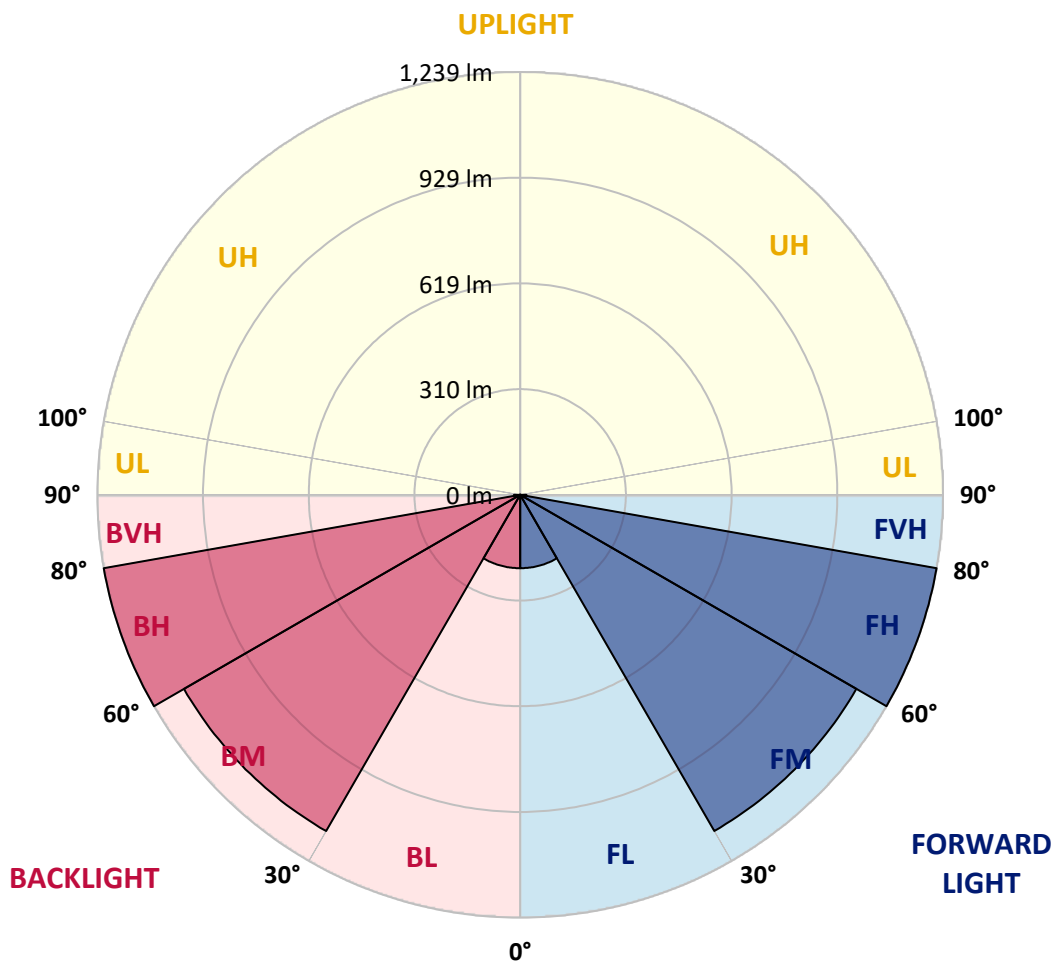
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.0	4.1			
FM	(30°-60°)	1137.5	21.8			
FH	(60°-80°)	1238.9	23.7			G1/1800
FVH	(80°-90°)	18.2	0.3			G1/100
BL	(0°-30°)	215.0	4.1	B1/500		
BM	(30°-60°)	1137.5	21.8	B2/2500		
BH	(60°-80°)	1238.9	23.7	B3/2500		G1/1800
BVH	(80°-90°)	18.2	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°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	518.2	518.7	518.7	518.7	518.4	518.4	518.0	518.4	518.2	517.5	517.8
5°	513.8	514.4	514.4	514.2	514.8	514.6	513.8	514.4	514.2	513.6	513.8
7.5°	507.6	508.4	508.4	508.2	508.8	508.6	508.2	508.4	508.4	507.6	507.6
10°	500.7	501.2	501.2	501.0	502.1	502.1	501.9	502.6	502.8	502.1	501.6
12.5°	494.2	495.0	495.0	495.9	497.1	497.5	498.8	499.8	500.7	500.4	499.6
15°	490.3	490.8	491.7	493.0	495.0	496.6	498.6	500.7	502.6	503.1	501.6
17.5°	488.0	488.7	490.1	491.7	494.4	497.3	500.2	503.1	505.8	506.6	505.0
20°	487.3	487.8	489.2	492.0	495.6	500.0	504.0	507.4	511.0	512.2	511.0
22.5°	488.7	489.6	491.3	494.7	499.6	505.0	509.8	514.4	518.9	521.0	519.4
25°	495.2	496.1	498.3	502.6	507.8	513.6	519.2	524.5	528.5	530.7	529.5
27.5°	507.2	508.4	511.0	515.3	521.0	527.2	533.3	537.7	541.1	541.7	540.3
30°	525.2	527.8	530.9	535.7	542.5	547.7	553.7	557.6	561.7	561.7	560.5
32.5°	553.3	555.9	559.3	563.8	569.1	574.8	580.1	583.5	587.9	588.1	585.2
35°	595.3	596.4	599.3	602.2	607.1	612.1	616.7	618.7	622.3	622.7	619.9
37.5°	650.7	650.9	652.9	653.8	658.2	663.6	668.0	669.4	672.8	672.3	669.6
40°	715.2	716.4	717.2	718.6	723.2	728.4	733.0	733.7	737.4	736.6	733.2
42.5°	790.0	790.4	794.5	796.6	801.0	803.6	809.4	810.0	814.4	812.5	808.6
45°	873.6	878.0	881.8	886.2	890.7	893.8	898.4	897.4	900.3	897.4	895.3
47.5°	961.8	964.9	973.5	980.3	987.7	990.3	996.8	993.9	996.8	992.7	992.0
50°	1058.7	1064.3	1071.8	1079.4	1087.3	1091.6	1100.0	1096.4	1100.2	1096.4	1094.2
52.5°	1154.3	1155.8	1172.1	1183.3	1194.3	1199.3	1204.5	1202.7	1203.0	1202.7	1200.5
55°	1245.0	1248.4	1264.6	1280.1	1299.2	1313.4	1322.0	1321.1	1318.9	1316.8	1313.2
57.5°	1347.2	1350.6	1369.3	1388.2	1410.1	1430.3	1447.8	1465.8	1472.9	1474.7	1466.8
60°	1485.5	1485.3	1510.2	1533.2	1564.5	1594.4	1632.9	1672.0	1716.9	1737.8	1710.1
62.5°	1626.1	1631.9	1668.0	1708.7	1773.1	1835.7	1906.5	1976.1	2047.2	2105.0	2043.5
65°	1609.4	1631.5	1685.0	1777.3	1896.2	2037.3	2190.0	2351.5	2497.4	2597.7	2485.2
67.5°	1394.8	1426.2	1480.7	1593.0	1741.6	1945.2	2201.5	2520.9	2892.3	3071.9	2849.3
70°	1010.9	1046.4	1103.6	1213.4	1360.5	1553.8	1832.3	2215.9	2707.5	2888.4	2643.3
72.5°	503.1	522.3	557.6	627.3	738.8	895.7	1148.4	1516.9	1951.8	2118.0	1894.0
75°	170.9	179.7	185.7	208.5	243.8	305.6	431.0	663.2	1011.7	1212.8	997.3
77.5°	98.7	98.9	102.9	107.1	113.1	119.7	136.6	179.3	310.1	440.5	320.9
80°	63.8	63.6	66.9	70.0	74.2	77.6	78.4	83.0	95.8	113.5	101.5
82.5°	33.1	37.2	44.7	48.7	56.4	57.8	55.9	54.2	57.4	59.5	60.9
85°	18.2	15.9	23.7	30.7	34.1	34.5	34.5	32.7	33.9	33.1	36.0
87.5°	8.4	7.6	9.4	15.1	16.1	13.6	14.4	12.7	9.1	8.8	10.1
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°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	517.8	518.0	518.0	518.7	518.9	519.4	519.8	520.1
5°	513.6	514.4	513.8	514.6	514.6	515.0	515.0	515.3
7.5°	507.6	508.4	508.4	508.4	508.2	508.8	508.8	508.8
10°	501.4	501.9	501.6	501.2	500.7	501.4	501.2	501.0
12.5°	499.6	498.3	497.3	496.8	495.9	496.1	495.4	495.4
15°	500.7	498.6	496.8	496.1	495.2	494.7	494.2	494.4
17.5°	503.8	501.2	499.0	497.7	496.6	495.9	495.0	495.2
20°	509.3	506.2	503.1	500.7	498.6	497.3	496.6	496.4
22.5°	517.5	513.0	508.4	504.8	501.9	500.2	499.6	499.0
25°	526.8	521.8	516.6	512.4	509.5	507.4	506.0	506.0
27.5°	538.6	534.5	529.7	524.9	522.3	520.1	519.2	518.7
30°	558.4	554.5	550.5	546.1	542.7	540.5	538.8	537.4
32.5°	583.5	580.3	577.2	573.9	570.8	567.9	565.2	564.0
35°	619.1	616.7	614.5	610.6	609.4	607.7	606.3	605.1
37.5°	668.0	667.0	667.0	662.9	662.0	661.2	659.8	660.0
40°	732.2	733.2	732.0	730.6	729.9	728.0	728.0	729.7
42.5°	808.4	809.1	811.8	809.4	812.1	809.6	808.2	809.4
45°	896.7	899.3	904.6	902.3	903.9	899.9	894.9	895.1
47.5°	995.9	998.3	1000.4	998.7	998.9	992.3	985.5	983.9
50°	1098.8	1099.8	1101.0	1098.6	1099.0	1091.6	1084.0	1084.2
52.5°	1200.5	1205.1	1209.9	1203.5	1202.1	1193.6	1182.8	1178.5
55°	1317.0	1323.4	1318.0	1306.6	1295.4	1284.2	1269.9	1267.5
57.5°	1460.6	1449.6	1432.2	1410.9	1395.2	1379.4	1364.9	1358.9
60°	1660.2	1618.6	1587.5	1555.9	1535.8	1516.4	1497.5	1494.6
62.5°	1942.5	1870.7	1808.6	1743.0	1689.4	1647.7	1614.5	1605.0
65°	2296.3	2126.6	1979.4	1842.1	1722.9	1632.9	1576.2	1551.3
67.5°	2448.5	2113.4	1861.1	1666.2	1510.2	1401.2	1340.1	1309.6
70°	2151.6	1752.6	1478.3	1283.1	1141.1	1024.9	969.4	936.8
72.5°	1480.3	1114.9	881.6	719.6	606.1	508.8	470.5	467.5
75°	664.7	440.2	303.4	233.9	196.7	171.1	163.3	157.3
77.5°	186.1	137.5	122.7	114.7	107.1	98.2	94.8	95.5
80°	90.4	85.4	82.1	77.0	70.0	62.6	59.3	60.7
82.5°	60.0	59.3	61.4	57.8	47.7	40.5	34.1	31.2
85°	36.5	36.9	37.7	37.9	32.1	22.5	15.4	17.3
87.5°	14.4	16.6	18.0	18.7	17.5	10.8	8.6	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)