

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: P199899

Luminaire Tested: **GPC-AF-01-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199899  
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: GPC-AF-01-LED-E1-5MQ-7030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4255.7 lumens  
Efficiency: N/A  
Efficacy: 125.2 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

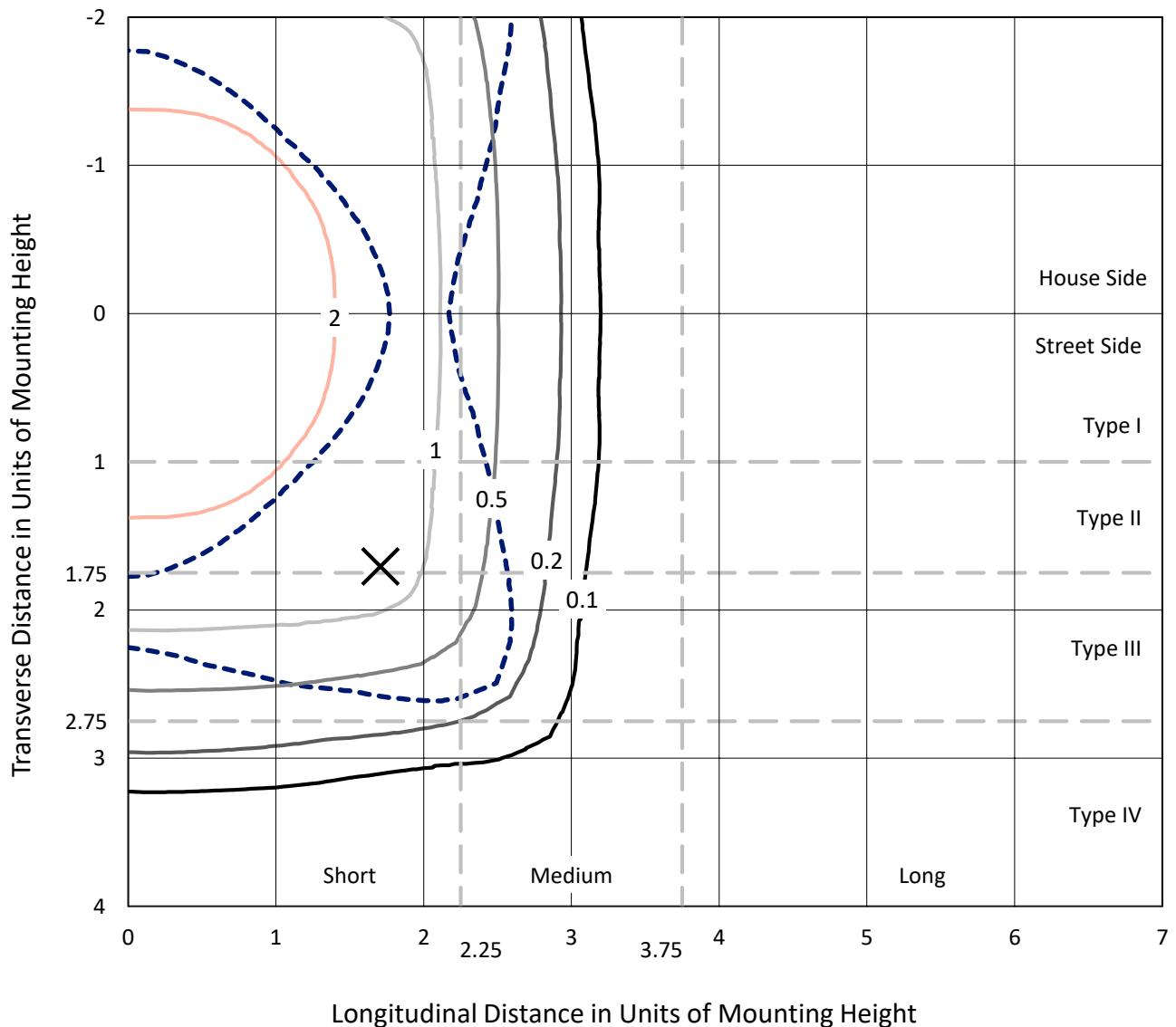
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

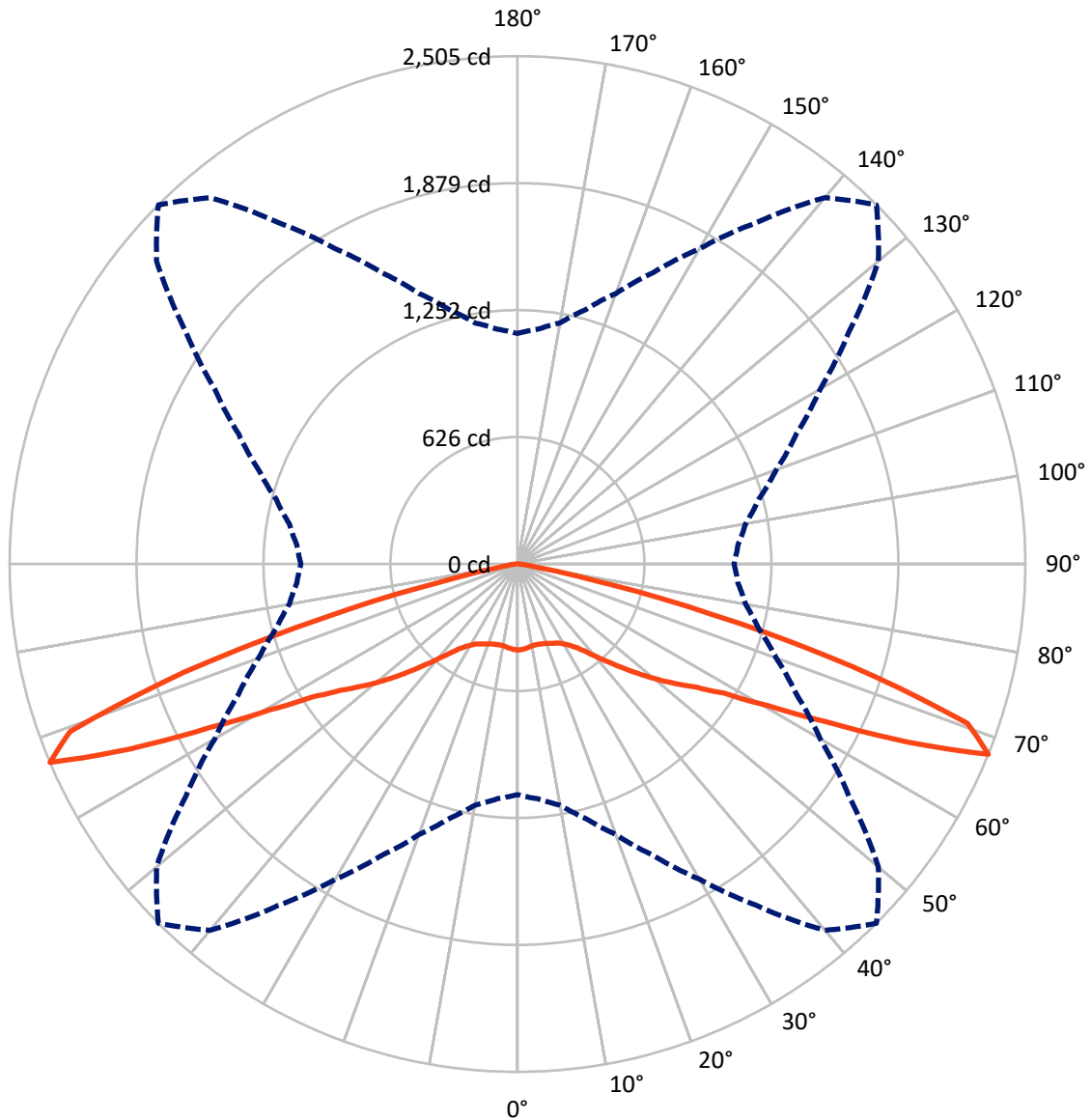
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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
<b>House Side</b>	Lumens	2127.8	0.0	2127.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2127.8	0.0	2127.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4255.7	0.0	4255.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	0.9
10°-20°	115.2	2.7
20°-30°	195.8	4.6
30°-40°	320.1	7.5
40°-50°	571.4	13.4
50°-60°	963.4	22.6
60°-70°	1495.1	35.1
70°-80°	525.3	12.3
80°-90°	29.7	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°	4255.7	100.0
0°-180°	4255.7	100.0



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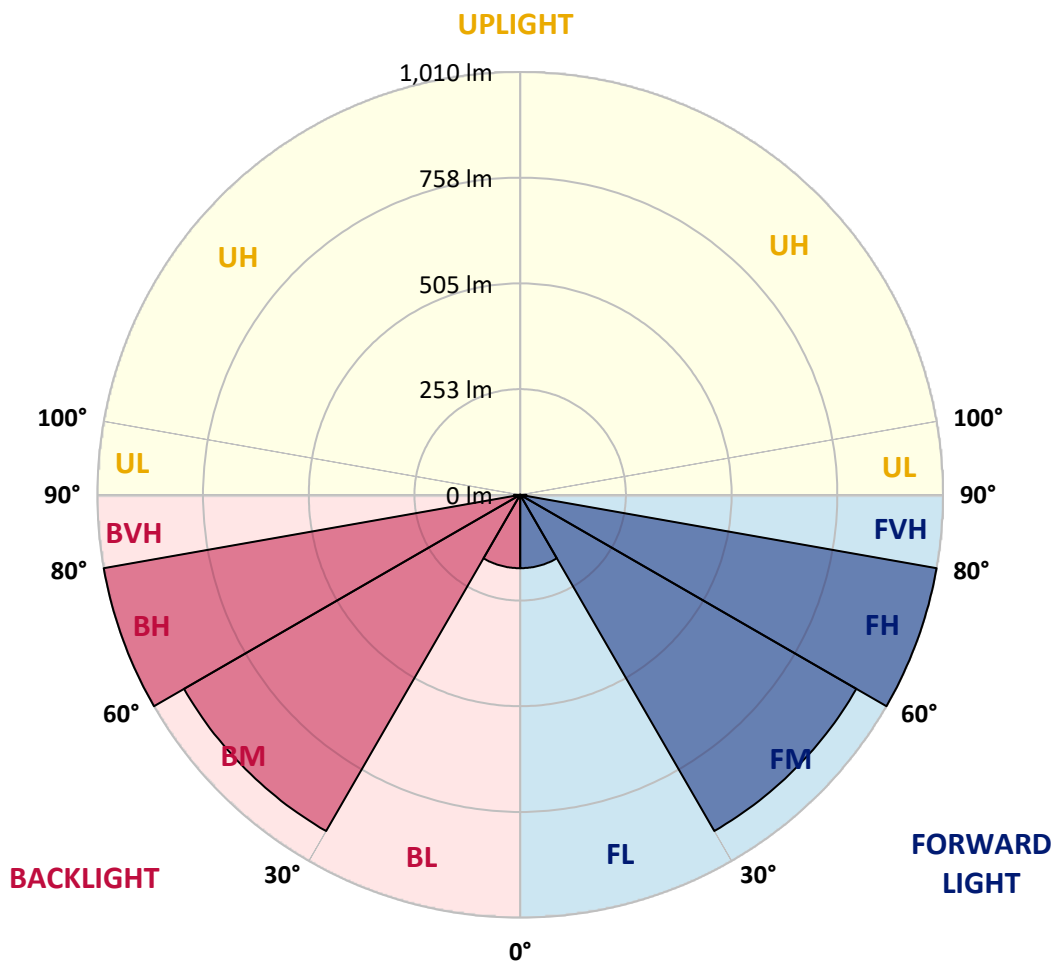
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	175.3	4.1			
FM (30°-60°)	927.5	21.8			
FH (60°-80°)	1010.2	23.7			G1/1800
FVH (80°-90°)	14.8	0.3			G1/100
BL (0°-30°)	175.3	4.1	B1/500		
BM (30°-60°)	927.5	21.8	B1/1000		
BH (60°-80°)	1010.2	23.7	B3/2500		G1/1800
BVH (80°-90°)	14.8	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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	422.5	423.0	423.0	423.0	422.8	422.8	422.3	422.8	422.5	422.0	422.2
5°	419.0	419.4	419.4	419.2	419.8	419.5	419.0	419.4	419.2	418.8	419.0
7.5°	413.9	414.5	414.5	414.3	414.8	414.7	414.3	414.5	414.5	413.9	413.9
10°	408.2	408.6	408.6	408.4	409.4	409.4	409.1	409.8	410.0	409.4	409.0
12.5°	402.9	403.5	403.5	404.4	405.4	405.7	406.7	407.4	408.2	408.1	407.2
15°	399.8	400.2	401.0	402.0	403.5	405.0	406.5	408.2	409.8	410.2	409.0
17.5°	397.9	398.5	399.7	401.0	403.1	405.5	407.9	410.2	412.4	413.1	411.8
20°	397.2	397.7	398.8	401.2	404.2	407.6	411.1	413.8	416.6	417.6	416.6
22.5°	398.5	399.3	400.7	403.3	407.2	411.8	415.7	419.4	423.2	424.9	423.5
25°	403.7	404.5	406.3	409.8	414.1	418.8	423.3	427.6	430.9	432.6	431.7
27.5°	413.5	414.5	416.6	420.2	424.9	429.9	434.9	438.3	441.1	441.7	440.6
30°	428.2	430.4	432.8	436.8	442.3	446.7	451.5	454.6	457.9	457.9	456.9
32.5°	451.1	453.2	455.9	459.8	464.1	468.7	473.0	475.8	479.3	479.4	477.1
35°	485.3	486.3	488.7	491.0	495.0	499.1	502.8	504.6	507.5	507.6	505.6
37.5°	530.6	530.8	532.3	533.0	536.6	541.2	544.6	545.9	548.6	548.2	546.0
40°	583.2	584.2	584.7	585.9	589.7	594.0	597.6	598.3	601.3	600.6	597.8
42.5°	644.1	644.4	647.8	649.5	653.1	655.2	659.9	660.5	664.1	662.4	659.4
45°	712.4	715.8	719.0	722.5	726.2	728.8	732.5	731.7	734.1	731.7	730.0
47.5°	784.2	786.7	793.8	799.2	805.4	807.4	812.8	810.3	812.8	809.4	808.8
50°	863.2	867.7	873.8	880.1	886.5	890.0	896.9	894.0	897.1	894.0	892.2
52.5°	941.2	942.4	955.6	964.9	973.8	978.0	982.0	980.7	980.8	980.7	979.0
55°	1015.1	1017.9	1031.2	1043.7	1059.4	1070.8	1078.0	1077.2	1075.4	1073.7	1070.7
57.5°	1098.5	1101.3	1116.5	1131.9	1149.7	1166.3	1180.5	1195.2	1200.9	1202.4	1196.0
60°	1211.2	1211.0	1231.4	1250.2	1275.6	1300.0	1331.5	1363.3	1399.8	1416.9	1394.3
62.5°	1325.9	1330.6	1360.0	1393.3	1445.7	1496.8	1554.5	1611.2	1669.2	1716.4	1666.2
65°	1312.2	1330.2	1373.8	1449.3	1546.0	1661.2	1785.7	1917.3	2036.3	2118.1	2026.3
67.5°	1137.3	1162.8	1207.4	1298.9	1420.1	1586.0	1795.0	2055.5	2358.3	2504.7	2323.2
70°	824.4	853.4	899.9	989.4	1109.3	1267.0	1494.0	1806.7	2207.6	2355.1	2155.2
72.5°	410.2	425.9	454.6	511.6	602.3	730.4	936.3	1236.9	1591.5	1727.0	1544.3
75°	139.3	146.6	151.5	170.1	198.9	249.1	351.5	540.8	824.9	988.9	813.1
77.5°	80.5	80.7	83.9	87.3	92.3	97.7	111.3	146.2	252.8	359.1	261.6
80°	52.0	51.9	54.6	57.2	60.4	63.3	64.0	67.7	78.1	92.6	82.8
82.5°	27.0	30.4	36.4	39.8	46.0	47.2	45.6	44.2	46.8	48.5	49.7
85°	14.9	12.9	19.3	25.0	27.8	28.2	28.2	26.7	27.7	27.0	29.4
87.5°	6.9	6.2	7.6	12.3	13.1	11.2	11.7	10.4	7.4	7.2	8.2
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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	422.2	422.3	422.3	423.0	423.2	423.5	423.9	424.2
5°	418.8	419.4	419.0	419.5	419.5	420.0	420.0	420.2
7.5°	413.9	414.5	414.5	414.5	414.3	414.8	414.8	414.8
10°	408.8	409.1	409.0	408.6	408.2	408.8	408.6	408.4
12.5°	407.2	406.3	405.5	405.2	404.4	404.5	403.9	403.9
15°	408.2	406.5	405.2	404.5	403.7	403.3	402.9	403.1
17.5°	410.9	408.6	406.9	405.9	405.0	404.4	403.5	403.7
20°	415.3	412.8	410.2	408.2	406.5	405.5	405.0	404.7
22.5°	422.0	418.3	414.5	411.6	409.1	407.9	407.2	406.9
25°	429.6	425.4	421.2	417.8	415.5	413.8	412.6	412.6
27.5°	439.1	435.8	431.9	428.0	425.9	424.2	423.3	423.0
30°	455.2	452.2	448.9	445.2	442.5	440.8	439.3	438.1
32.5°	475.8	473.2	470.7	467.9	465.3	463.0	460.8	459.9
35°	504.8	502.8	501.0	497.9	496.9	495.5	494.4	493.5
37.5°	544.6	543.9	543.9	540.5	539.7	539.2	538.0	538.2
40°	597.1	597.8	596.9	595.7	595.1	593.6	593.6	594.9
42.5°	659.2	659.7	661.9	659.9	662.1	660.2	659.0	659.9
45°	731.2	733.3	737.6	735.7	737.1	733.6	729.7	729.8
47.5°	812.1	814.0	815.7	814.3	814.5	809.1	803.6	802.2
50°	895.9	896.7	897.7	895.7	896.2	890.0	883.8	884.0
52.5°	979.0	982.7	986.5	981.2	980.0	973.3	964.4	960.9
55°	1073.8	1079.2	1074.6	1065.4	1056.2	1047.0	1035.4	1033.5
57.5°	1190.8	1181.8	1167.8	1150.4	1137.6	1124.8	1113.1	1108.1
60°	1353.7	1319.9	1294.4	1268.6	1252.3	1236.5	1221.0	1218.7
62.5°	1583.8	1525.4	1474.7	1421.3	1377.5	1343.6	1316.3	1308.7
65°	1872.2	1734.0	1614.0	1502.0	1404.7	1331.5	1285.2	1264.9
67.5°	1996.3	1723.2	1517.5	1358.6	1231.4	1142.6	1092.6	1067.8
70°	1754.2	1429.0	1205.3	1046.2	930.4	835.7	790.5	763.8
72.5°	1206.9	909.0	718.8	586.7	494.2	414.8	383.6	381.2
75°	541.9	358.9	247.4	190.6	160.5	139.6	133.1	128.2
77.5°	151.7	112.1	100.0	93.5	87.3	80.1	77.3	77.9
80°	73.8	69.7	66.9	62.9	57.2	51.2	48.3	49.5
82.5°	48.9	48.3	50.1	47.2	38.9	33.1	27.8	25.4
85°	29.7	30.1	30.7	30.9	26.2	18.3	12.6	14.1
87.5°	11.7	13.5	14.6	15.3	14.3	8.8	7.0	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)