

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: P269927

Luminaire Tested: **GPC-AF-01-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4603.2 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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

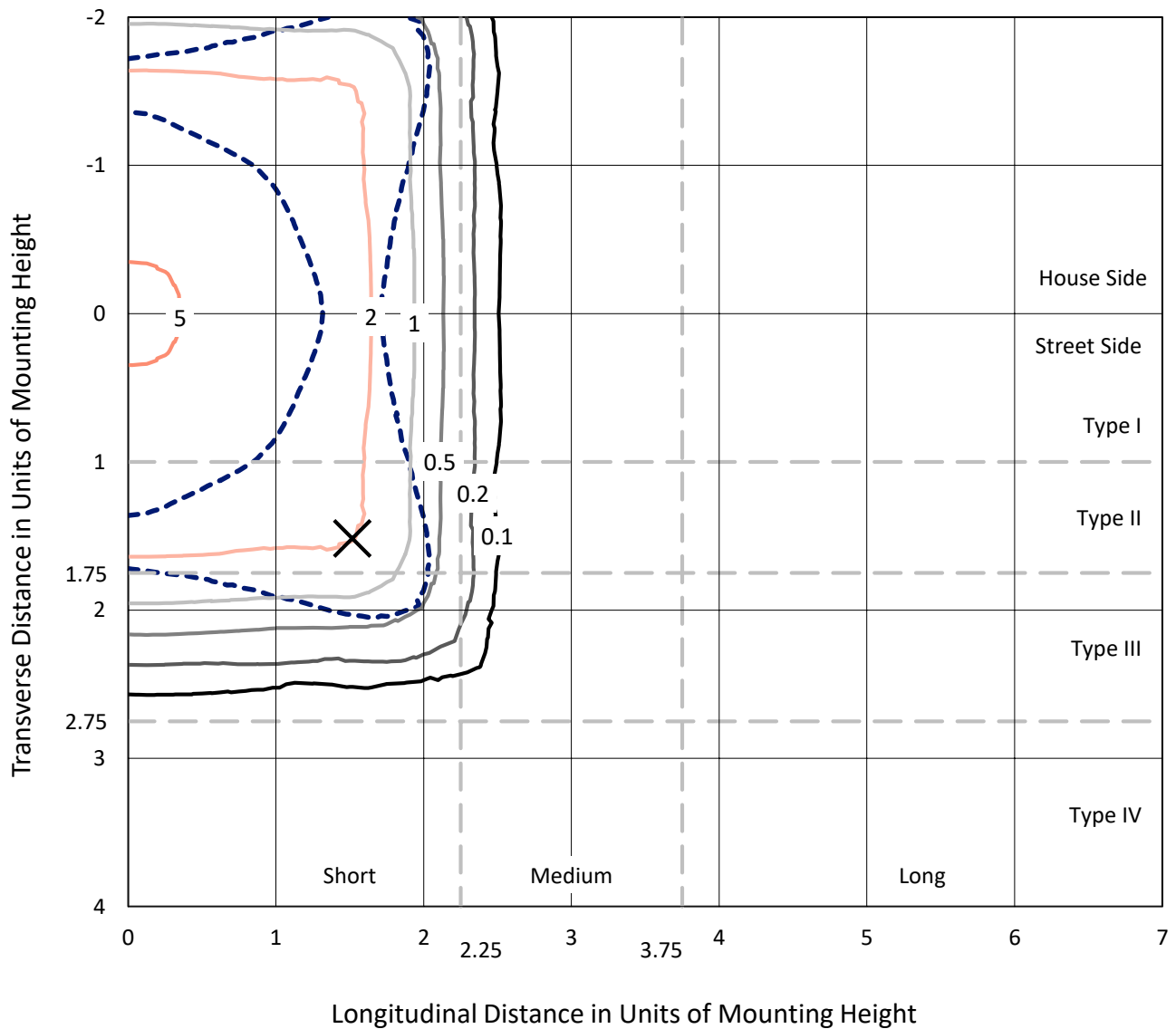


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Iso-Footcandle Lines of Horizontal Illumination

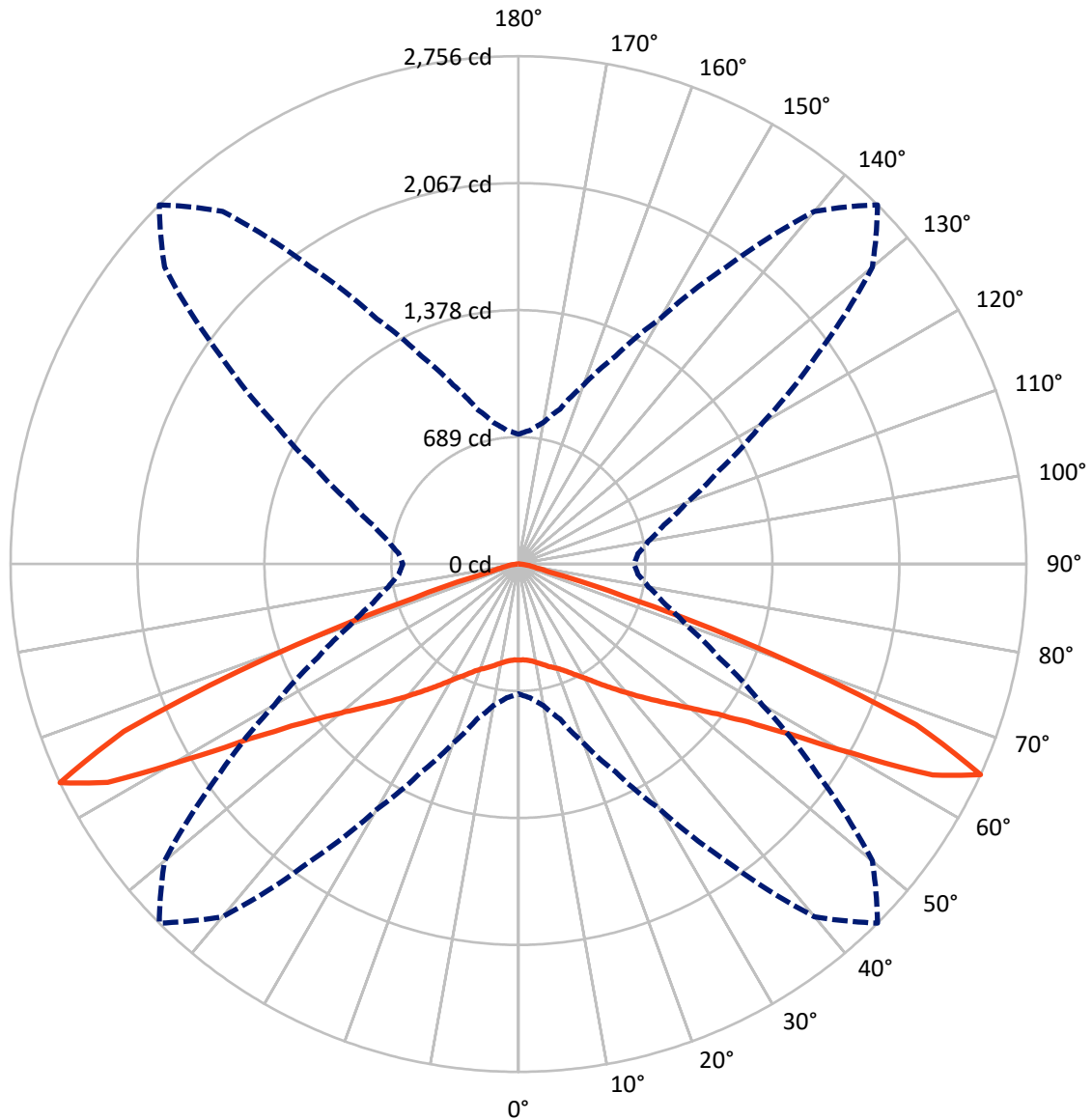
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2301.6	0.0	2301.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2301.6	0.0	2301.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4603.2	0.0	4603.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	1.1
10°-20°	162.8	3.5
20°-30°	304.4	6.6
30°-40°	514.9	11.2
40°-50°	841.9	18.3
50°-60°	1338.7	29.1
60°-70°	1210.1	26.3
70°-80°	153.1	3.3
80°-90°	26.3	0.6
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°	4603.2	100.0
0°-180°	4603.2	100.0



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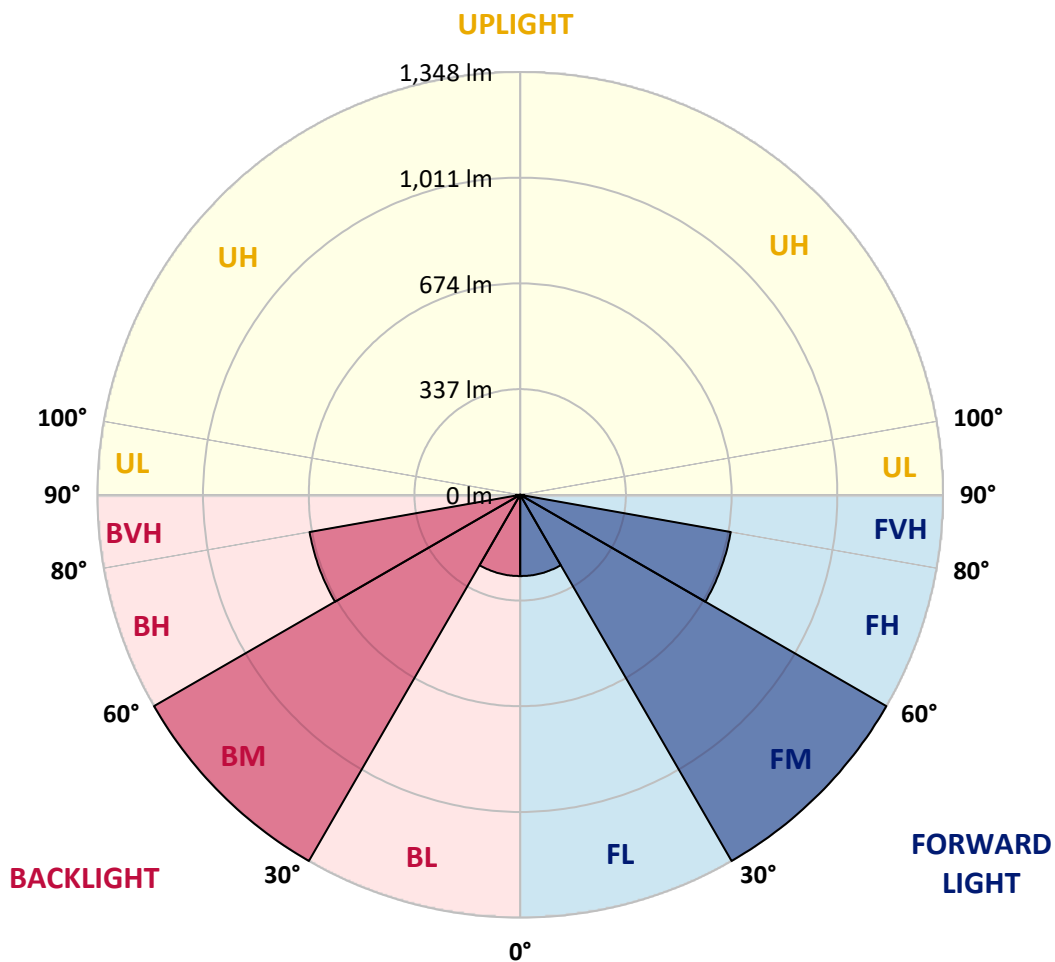
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.0	5.6			
FM	(30°-60°)	1347.8	29.3			
FH	(60°-80°)	681.6	14.8			G1/1800
FVH	(80°-90°)	13.2	0.3			G1/100
BL	(0°-30°)	259.0	5.6	B1/500		
BM	(30°-60°)	1347.8	29.3	B2/2500		
BH	(60°-80°)	681.6	14.8	B2/1000		G1/1800
BVH	(80°-90°)	13.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8
2.5°	521.2	521.7	522.2	521.7	522.2	521.5	521.0	521.7	521.0	520.4	520.8
5°	525.8	526.0	526.0	525.4	526.0	525.6	524.9	525.8	525.1	524.5	524.9
7.5°	533.4	534.2	533.6	533.0	533.4	533.0	532.4	532.8	532.4	531.8	532.1
10°	543.5	544.2	543.7	543.5	544.0	543.7	543.3	543.0	543.3	542.7	542.7
12.5°	555.8	555.5	555.3	555.5	556.2	556.2	556.1	556.2	556.6	556.9	556.4
15°	567.9	568.3	568.3	568.3	569.5	570.7	571.3	571.7	572.6	572.8	572.0
17.5°	582.9	582.9	582.7	582.9	584.3	586.0	586.7	587.4	588.3	589.0	587.9
20°	599.8	600.2	600.2	600.5	602.4	604.3	604.3	604.6	604.3	604.6	604.1
22.5°	620.2	621.5	621.5	621.7	623.5	625.8	625.2	625.8	624.7	625.6	624.7
25°	647.0	648.8	648.4	648.4	649.7	651.4	651.5	652.8	652.6	653.6	653.0
27.5°	677.1	680.1	681.0	680.8	681.6	683.3	683.6	685.0	684.2	685.0	684.7
30°	713.3	714.6	716.4	717.0	718.1	719.6	719.6	719.8	718.7	720.0	720.7
32.5°	750.9	753.3	754.9	758.9	760.8	761.9	761.7	762.1	761.0	762.8	764.0
35°	800.5	802.1	805.1	808.0	810.6	810.5	809.7	809.9	809.9	811.4	812.7
37.5°	860.1	860.5	864.3	868.7	869.9	868.7	864.7	863.8	862.0	863.8	866.0
40°	923.4	924.9	932.3	935.0	935.7	933.2	927.7	924.4	920.1	922.5	925.6
42.5°	989.6	992.5	999.3	1004.1	1006.3	1004.8	997.1	992.1	986.5	987.7	990.8
45°	1062.9	1066.5	1076.0	1080.8	1084.9	1082.5	1074.9	1067.4	1058.6	1059.1	1064.0
47.5°	1144.7	1148.5	1160.7	1168.7	1170.9	1170.4	1162.0	1151.6	1139.6	1139.1	1143.3
50°	1236.5	1240.3	1255.6	1267.9	1274.1	1273.4	1263.6	1248.9	1234.2	1234.5	1239.7
52.5°	1326.3	1330.7	1346.7	1367.8	1380.2	1389.0	1383.0	1369.1	1351.3	1351.7	1356.4
55°	1410.3	1417.9	1436.2	1464.9	1487.8	1512.6	1519.7	1519.3	1508.4	1511.5	1516.2
57.5°	1451.1	1462.4	1490.6	1535.8	1582.4	1632.8	1675.5	1707.4	1721.1	1741.5	1736.8
60°	1373.9	1391.8	1433.4	1500.0	1592.1	1697.3	1810.1	1920.1	2014.2	2085.1	2044.4
62.5°	1124.9	1148.3	1198.7	1283.9	1423.3	1591.6	1807.5	2067.9	2351.6	2522.8	2400.5
65°	703.9	728.0	779.3	870.7	1033.7	1243.1	1535.8	1967.4	2497.6	2755.6	2506.8
67.5°	274.4	287.5	315.3	373.9	496.3	682.5	976.4	1466.2	2100.1	2326.4	2061.3
70°	137.5	138.9	144.0	154.8	181.1	235.1	357.9	679.7	1204.4	1454.7	1161.1
72.5°	99.4	99.6	102.1	106.9	115.3	127.4	150.6	208.0	391.8	598.7	367.1
75°	76.0	77.0	78.5	81.0	85.6	91.6	100.0	119.8	148.5	172.2	144.8
77.5°	58.6	60.4	61.4	63.8	66.7	70.6	73.1	80.6	93.8	98.8	97.2
80°	44.6	46.2	48.5	50.5	52.5	54.3	53.4	57.0	63.8	67.9	65.8
82.5°	28.4	30.3	37.1	38.7	39.6	41.0	39.4	39.6	42.7	45.3	42.7
85°	18.3	19.5	23.4	25.6	26.0	26.7	26.1	24.6	24.6	22.4	25.2
87.5°	8.4	8.7	10.6	12.4	12.9	11.7	11.4	11.0	8.9	8.4	9.1
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°	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8
2.5°	520.7	521.0	521.2	521.9	522.2	522.2	522.4	522.9
5°	524.7	525.4	525.6	526.4	526.6	526.4	526.9	527.0
7.5°	532.1	533.1	533.6	534.4	533.9	534.6	534.9	534.9
10°	542.8	544.0	544.2	545.0	544.6	545.0	545.0	544.6
12.5°	557.0	557.3	556.6	557.3	556.4	556.9	556.2	555.8
15°	572.8	572.2	570.7	570.7	569.3	569.5	569.3	569.2
17.5°	588.1	586.9	585.8	585.3	584.3	584.0	583.4	583.4
20°	604.9	604.3	603.7	602.8	601.7	600.5	600.3	600.8
22.5°	625.2	625.0	625.0	624.5	623.1	621.9	621.3	621.3
25°	652.3	650.5	650.5	650.3	649.6	648.8	647.6	648.2
27.5°	683.0	682.0	682.7	682.5	682.0	682.0	681.0	681.0
30°	720.7	720.4	721.6	720.5	718.4	718.1	717.2	716.2
32.5°	764.3	763.7	765.7	764.5	761.0	759.1	757.4	756.6
35°	812.7	813.0	815.3	814.5	810.6	809.4	806.3	805.9
37.5°	865.7	869.2	873.3	874.2	870.9	870.1	866.9	865.2
40°	928.0	932.6	938.9	940.3	936.9	936.3	931.7	929.3
42.5°	994.5	1002.2	1010.1	1011.3	1007.9	1004.5	1000.2	998.3
45°	1068.7	1078.0	1088.0	1090.6	1085.4	1081.4	1075.8	1075.8
47.5°	1151.8	1163.6	1175.0	1182.0	1177.3	1172.9	1166.3	1162.0
50°	1250.3	1266.2	1281.1	1288.3	1280.8	1272.5	1261.0	1257.1
52.5°	1373.5	1390.8	1403.6	1399.7	1388.2	1376.7	1363.9	1358.9
55°	1530.8	1536.7	1536.7	1522.0	1498.7	1479.6	1459.4	1452.7
57.5°	1727.7	1705.3	1670.8	1627.0	1572.0	1524.2	1491.8	1476.5
60°	1959.1	1851.1	1729.3	1609.8	1511.5	1430.5	1382.3	1360.4
62.5°	2113.2	1831.1	1587.1	1395.1	1253.7	1155.9	1089.6	1063.8
65°	1975.0	1527.2	1200.3	970.6	816.4	717.0	651.4	627.1
67.5°	1446.6	957.0	639.2	458.1	335.6	267.8	240.7	229.5
70°	649.4	337.0	206.5	161.2	139.1	127.6	122.7	120.9
72.5°	195.7	141.7	119.5	107.7	99.0	93.3	89.2	88.8
75°	118.1	98.4	87.3	80.4	74.7	70.2	68.1	67.6
77.5°	82.6	72.3	67.1	62.2	57.9	54.3	52.5	50.8
80°	58.0	53.0	50.7	47.9	45.0	41.9	39.0	37.6
82.5°	38.7	37.6	37.6	36.0	33.6	30.6	25.1	23.7
85°	25.1	24.9	25.2	24.6	22.8	19.7	16.2	15.4
87.5°	11.7	11.9	13.1	12.9	12.4	10.3	8.2	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)