

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: P191789

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-RW-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4197 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): 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

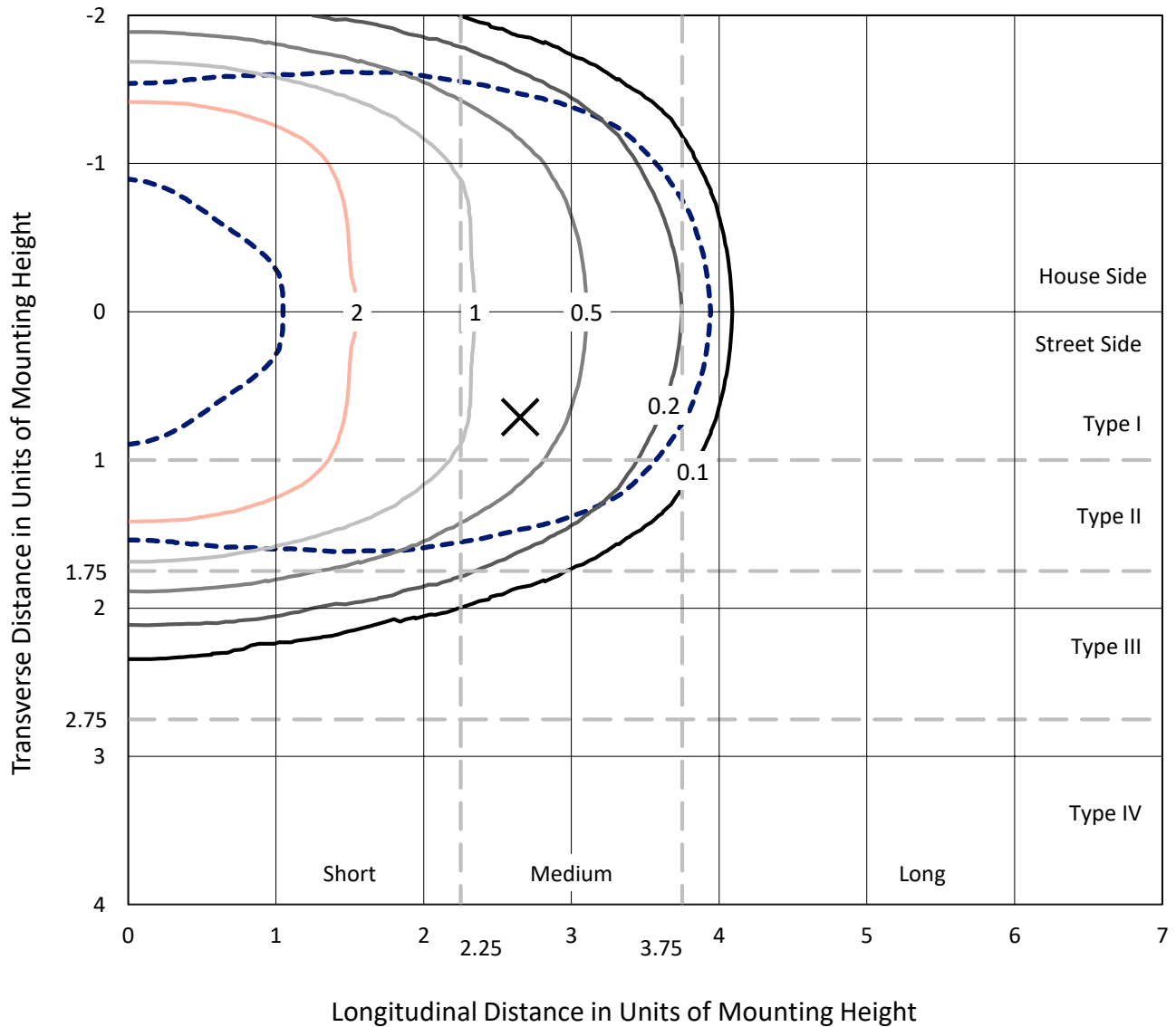


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

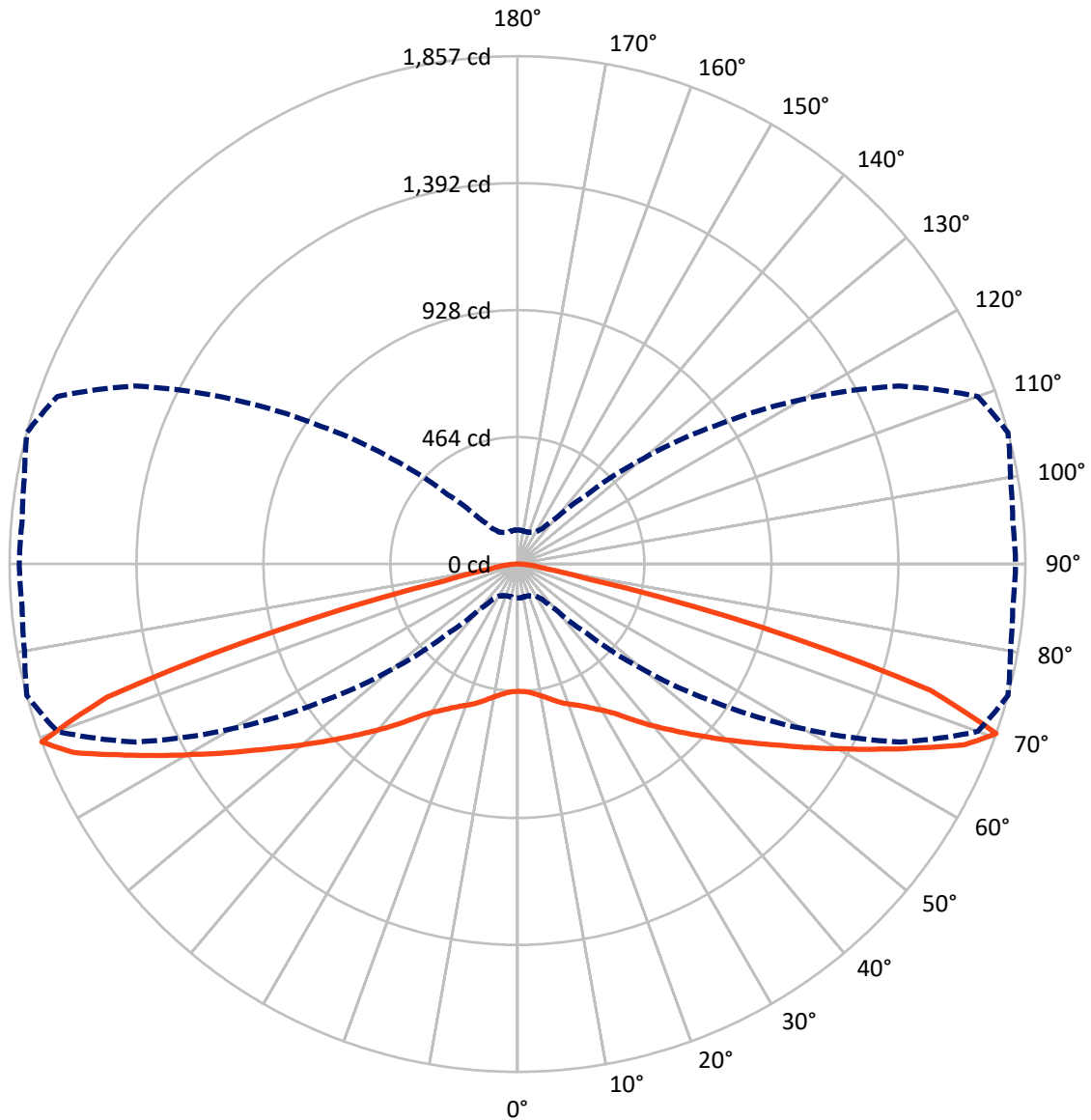


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.5	0.0	2098.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2098.5	0.0	2098.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4197.0	0.0	4197.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.1
10°-20°	138.7	3.3
20°-30°	261.1	6.2
30°-40°	462.4	11.0
40°-50°	773.3	18.4
50°-60°	1077.5	25.7
60°-70°	999.2	23.8
70°-80°	398.2	9.5
80°-90°	41.9	1.0
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°	4197.0	100.0
0°-180°	4197.0	100.0



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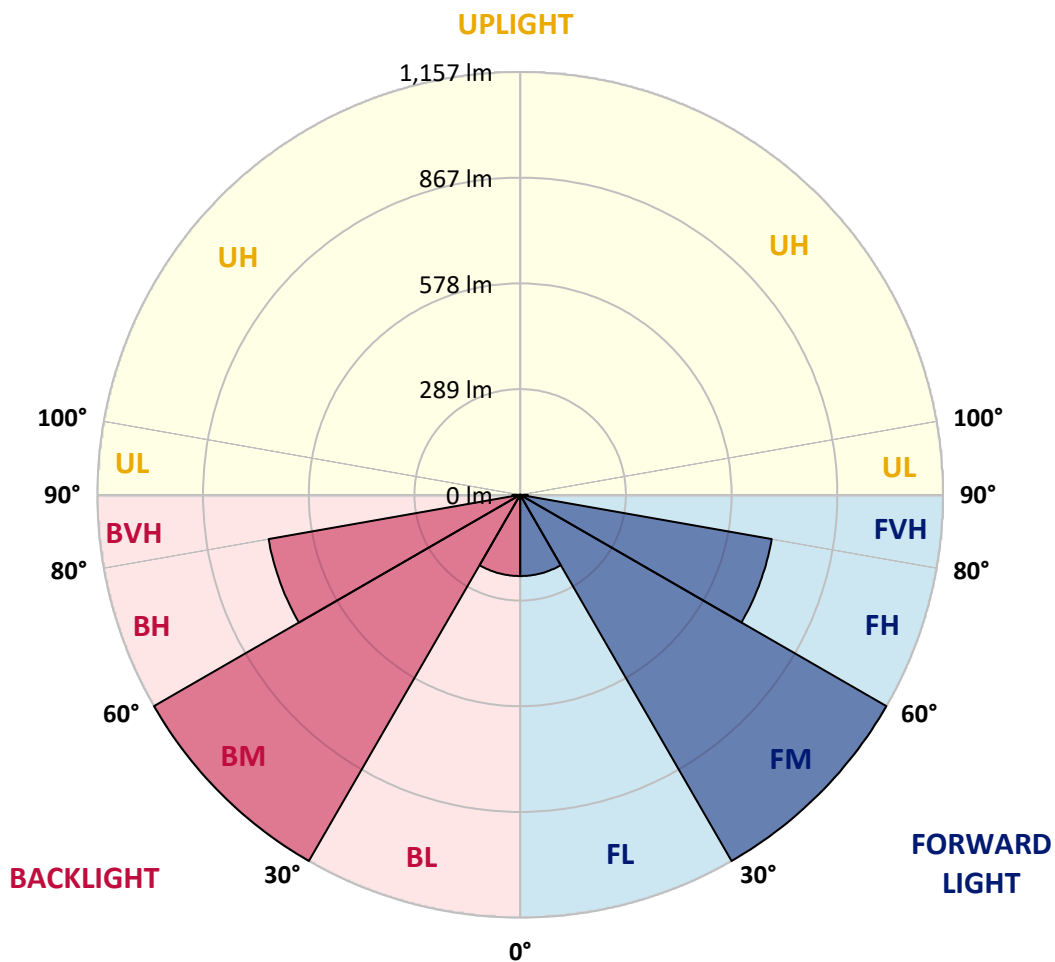
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	222.2	5.3			
FM	(30°-60°)	1156.6	27.6			
FH	(60°-80°)	698.7	16.6			G1/1800
FVH	(80°-90°)	20.9	0.5			G1/100
BL	(0°-30°)	222.2	5.3	B1/500		
BM	(30°-60°)	1156.6	27.6	B2/2500		
BH	(60°-80°)	698.7	16.6	B2/1000		G2/1000
BVH	(80°-90°)	20.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	465.5	465.5	465.5	465.5	465.5	465.5	465.5	465.5	465.5	465.5	465.5
2.5°	464.8	464.4	464.8	464.6	465.0	465.0	465.3	466.1	466.1	466.7	466.5
5°	460.2	460.0	460.6	461.2	461.8	463.0	464.2	465.9	467.3	468.3	469.3
7.5°	451.3	451.3	452.1	453.4	454.8	457.4	460.2	463.8	467.3	470.3	472.9
10°	443.9	444.3	445.3	447.7	450.1	454.0	457.8	463.0	467.9	472.9	476.9
12.5°	439.6	440.2	441.9	445.5	449.5	454.8	460.6	467.1	472.7	478.6	482.6
15°	440.9	441.3	443.9	448.3	453.4	460.2	467.9	475.7	482.2	488.6	493.9
17.5°	448.7	449.3	452.3	457.2	462.6	470.5	478.8	487.6	495.7	502.8	509.4
20°	462.6	463.2	466.9	472.3	478.6	486.8	495.1	504.2	513.3	520.9	528.2
22.5°	482.2	483.2	486.8	492.1	499.3	508.0	517.9	527.6	536.4	543.3	549.8
25°	508.0	510.2	513.5	519.5	527.0	535.0	545.7	555.6	563.9	570.5	575.2
27.5°	544.5	547.5	550.0	555.8	563.1	570.7	581.4	590.1	598.0	604.4	608.0
30°	592.9	595.9	598.4	604.0	610.7	617.9	628.0	635.7	640.7	645.7	645.5
32.5°	651.6	654.8	655.8	661.7	668.7	676.4	685.5	689.9	693.9	694.4	690.9
35°	717.3	718.8	722.8	730.7	738.7	745.0	753.8	755.9	755.9	753.0	745.0
37.5°	789.3	790.3	795.8	804.7	812.9	819.4	825.4	829.7	827.5	821.2	807.9
40°	868.2	870.0	877.9	885.9	895.0	901.1	907.5	908.3	906.1	896.8	878.7
42.5°	943.6	945.2	953.1	965.6	977.5	986.0	992.0	993.2	986.2	977.7	955.3
45°	1008.4	1012.6	1022.9	1037.6	1054.9	1067.0	1075.1	1078.5	1072.3	1061.2	1035.2
47.5°	1059.8	1064.0	1078.7	1096.1	1117.5	1137.2	1150.7	1157.8	1156.2	1147.9	1119.5
50°	1097.5	1101.5	1117.3	1138.8	1163.8	1188.2	1211.2	1228.2	1234.2	1230.4	1204.4
52.5°	1101.9	1108.4	1127.1	1155.8	1188.4	1221.7	1254.4	1283.4	1303.0	1306.0	1286.7
55°	1041.0	1047.5	1073.3	1116.0	1164.4	1218.7	1271.1	1319.9	1358.6	1378.4	1368.3
57.5°	897.4	909.1	936.2	986.2	1057.4	1138.8	1222.3	1309.0	1387.7	1440.3	1450.4
60°	687.7	701.6	729.0	782.1	861.5	958.5	1069.9	1198.1	1337.1	1455.3	1526.0
62.5°	441.1	454.2	483.0	529.2	593.9	699.0	818.6	970.8	1157.6	1344.3	1512.5
65°	226.7	233.9	248.9	276.9	327.3	405.8	513.2	664.9	878.5	1108.8	1352.0
67.5°	143.6	145.0	148.4	152.3	165.2	192.4	242.4	337.0	512.8	753.0	1037.6
70°	124.2	124.2	122.6	122.0	123.6	127.3	135.1	157.1	216.4	357.4	598.4
72.5°	113.7	112.5	109.7	107.5	107.1	107.1	108.7	112.1	121.6	145.6	234.3
75°	104.7	101.4	97.6	95.0	94.0	93.0	92.8	93.4	95.4	99.2	111.9
77.5°	93.8	89.5	85.1	82.5	81.3	79.9	78.7	77.4	76.4	77.6	83.1
80°	80.7	75.8	72.4	70.8	69.6	67.6	65.1	62.7	60.5	60.1	63.5
82.5°	65.1	59.3	59.5	60.1	57.9	55.1	52.4	49.8	46.0	44.0	46.0
85°	52.6	49.6	48.2	52.0	48.8	44.6	40.3	35.7	29.8	25.0	27.2
87.5°	20.4	20.4	30.5	47.0	42.3	34.5	29.6	25.2	15.7	12.1	12.3
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°	465.5	465.5	465.5	465.5	465.5	465.5	465.5	465.5
2.5°	466.3	466.7	466.5	466.3	466.3	466.1	466.3	466.3
5°	469.9	470.9	470.9	471.3	471.3	471.5	471.7	471.5
7.5°	475.3	477.0	478.2	479.6	479.8	480.0	480.4	480.0
10°	480.6	484.2	486.8	489.3	490.5	490.9	491.3	491.3
12.5°	487.4	492.3	496.9	501.4	503.6	504.8	504.8	505.6
15°	498.5	503.4	508.8	514.9	518.7	520.7	521.3	521.3
17.5°	514.1	518.5	523.1	529.0	533.8	536.4	537.0	536.8
20°	532.4	536.6	539.1	542.9	547.1	550.0	550.8	550.8
22.5°	553.2	555.6	556.0	557.2	560.6	564.5	566.3	566.7
25°	576.2	576.8	575.2	575.2	577.4	581.2	583.0	583.2
27.5°	606.0	603.0	599.0	597.7	599.0	603.4	605.6	606.4
30°	643.1	635.9	626.8	621.9	621.1	626.8	630.8	631.4
32.5°	685.5	675.2	663.1	653.0	650.4	654.0	658.7	658.5
35°	735.9	723.6	708.9	696.0	690.1	693.7	700.4	701.2
37.5°	794.0	778.0	761.1	744.8	735.5	736.5	743.6	746.0
40°	858.9	838.1	816.8	795.0	781.7	779.1	787.9	789.3
42.5°	928.3	901.5	874.8	847.8	830.7	826.8	836.9	836.3
45°	1002.3	968.2	936.8	907.1	886.9	880.9	889.2	889.2
47.5°	1081.8	1039.8	1002.5	968.8	946.8	938.2	946.2	946.8
50°	1166.1	1121.5	1077.7	1040.2	1013.8	1002.9	1013.2	1014.8
52.5°	1250.0	1206.6	1162.4	1119.5	1087.6	1074.3	1086.2	1091.4
55°	1335.1	1292.5	1250.2	1208.4	1170.5	1154.8	1167.5	1174.1
57.5°	1425.0	1385.5	1345.3	1303.0	1266.5	1242.1	1255.6	1264.3
60°	1530.3	1496.6	1454.8	1408.1	1371.2	1346.5	1354.2	1361.9
62.5°	1613.6	1626.7	1591.2	1537.3	1489.9	1458.1	1465.7	1473.8
65°	1573.4	1707.7	1739.2	1684.7	1619.0	1569.6	1566.4	1570.6
67.5°	1315.1	1576.0	1766.2	1818.1	1763.2	1694.6	1681.9	1688.0
70°	879.7	1204.6	1540.2	1790.2	1856.6	1830.0	1817.5	1821.3
72.5°	422.5	701.6	1044.9	1377.2	1579.5	1672.4	1702.1	1716.6
75°	154.5	278.5	503.6	758.9	916.2	1060.6	1154.8	1193.3
77.5°	93.2	112.5	160.9	242.2	274.3	307.1	294.4	300.7
80°	69.0	78.0	88.3	99.2	102.7	102.7	98.8	95.6
82.5°	48.4	54.2	59.1	65.1	66.6	63.7	52.4	41.7
85°	31.1	33.7	35.9	39.7	38.7	36.9	24.8	22.0
87.5°	14.3	16.3	17.1	18.8	18.1	17.3	12.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)