

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: P193539

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193539
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4200 lumens
Efficiency: N/A
Efficacy: 95.5 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): 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

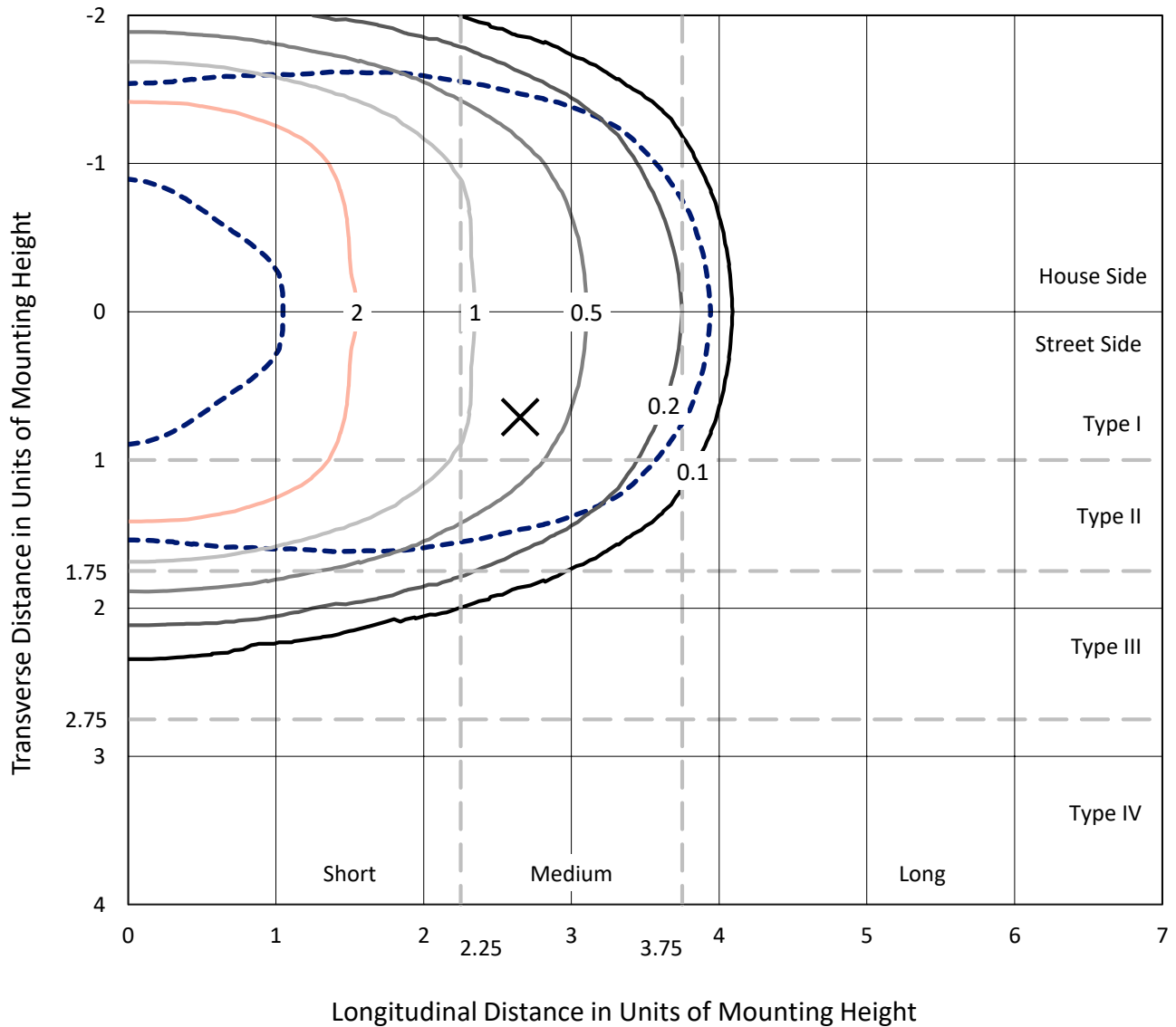


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Iso-Footcandle Lines of Horizontal Illumination

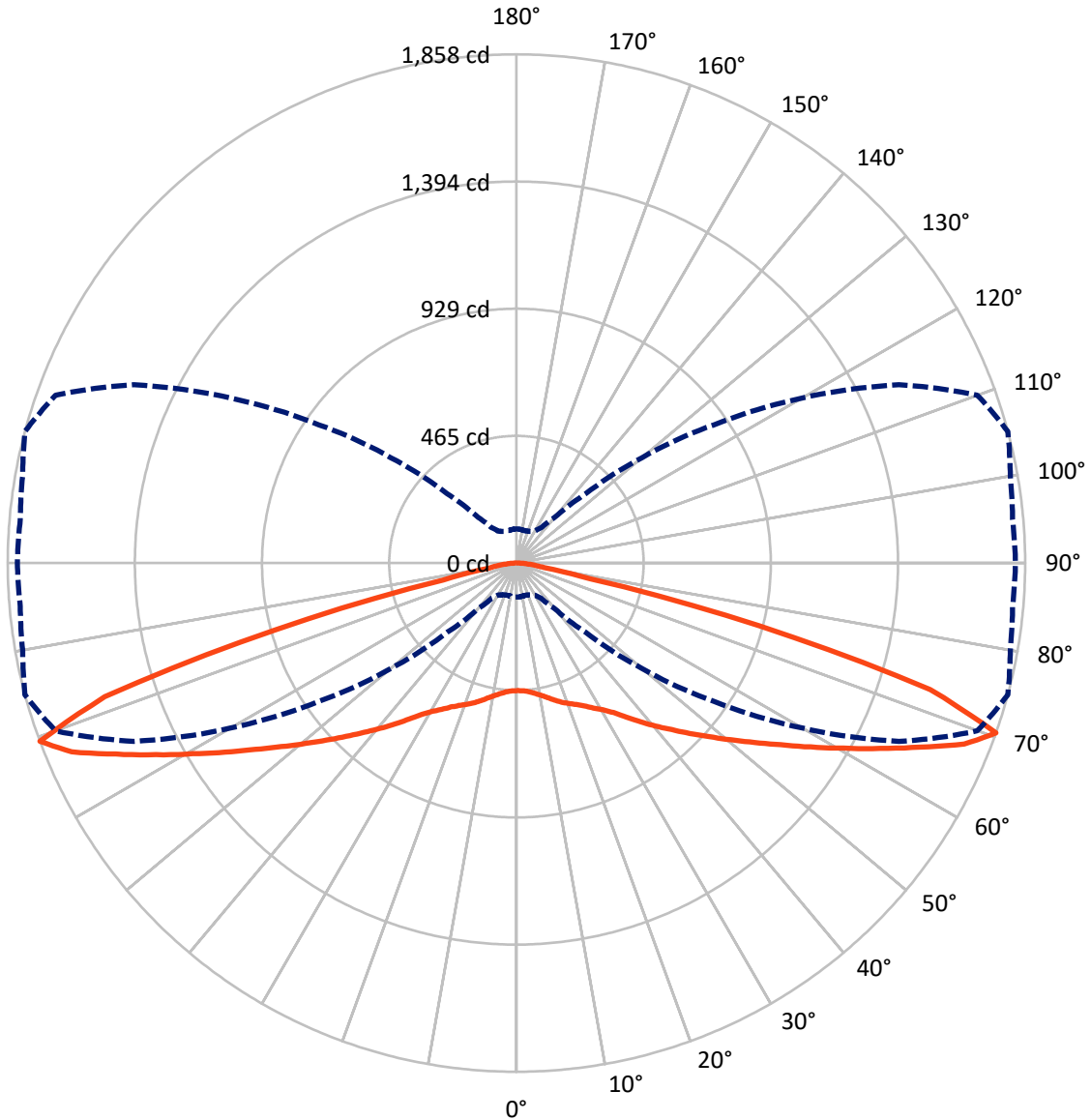
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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	2100.0	0.0	2100.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2100.0	0.0	2100.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4200.0	0.0	4200.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.1
10°-20°	138.8	3.3
20°-30°	261.3	6.2
30°-40°	462.7	11.0
40°-50°	773.8	18.4
50°-60°	1078.3	25.7
60°-70°	1000.0	23.8
70°-80°	398.5	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°	4200.0	100.0
0°-180°	4200.0	100.0



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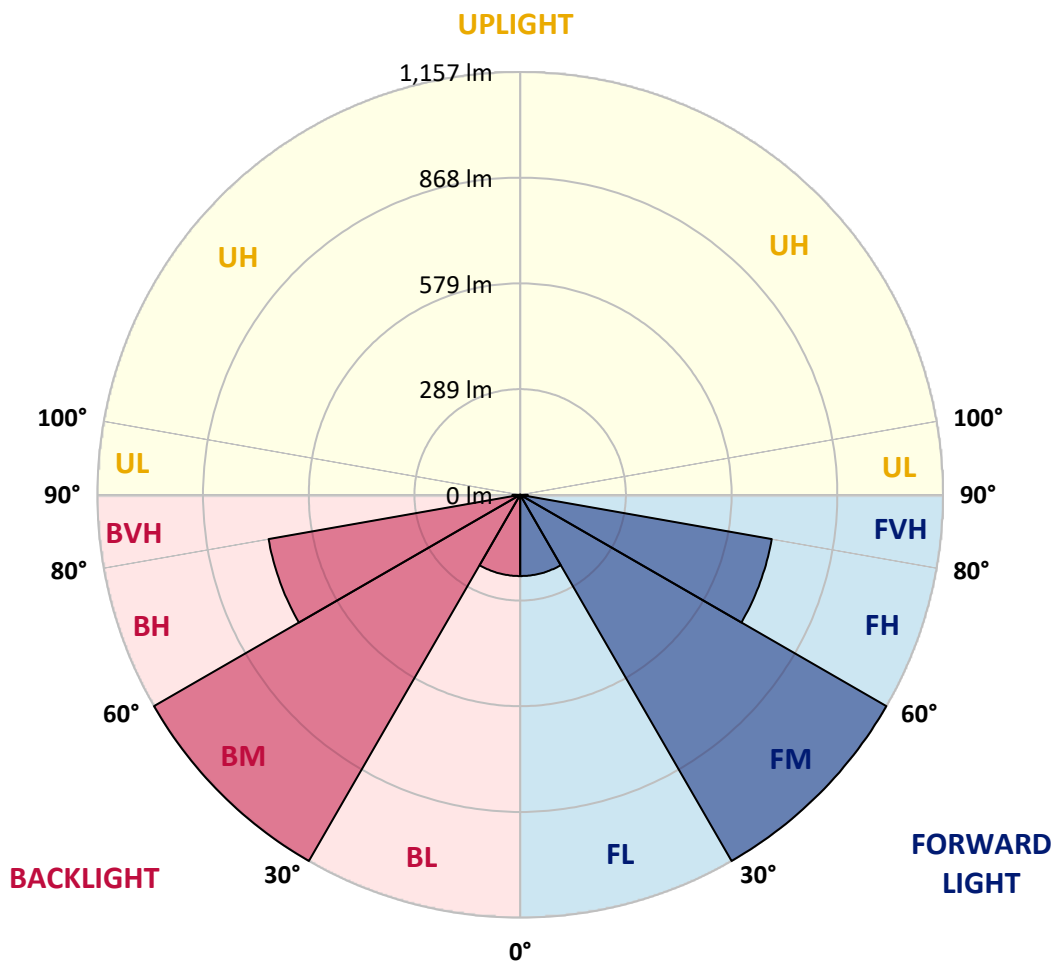
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	222.4	5.3			
FM	(30°-60°)	1157.4	27.6			
FH	(60°-80°)	699.2	16.6			G1/1800
FVH	(80°-90°)	20.9	0.5			G1/100
BL	(0°-30°)	222.4	5.3	B1/500		
BM	(30°-60°)	1157.4	27.6	B2/2500		
BH	(60°-80°)	699.2	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°	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9
2.5°	465.1	464.7	465.1	464.9	465.3	465.3	465.7	466.5	466.5	467.1	466.9
5°	460.5	460.3	460.9	461.5	462.1	463.3	464.5	466.3	467.7	468.7	469.6
7.5°	451.6	451.6	452.4	453.8	455.2	457.7	460.5	464.1	467.7	470.6	473.2
10°	444.2	444.6	445.6	448.0	450.4	454.4	458.1	463.3	468.3	473.2	477.2
12.5°	439.9	440.5	442.3	445.8	449.8	455.2	460.9	467.5	473.0	479.0	482.9
15°	441.3	441.7	444.2	448.6	453.8	460.5	468.3	476.0	482.6	488.9	494.3
17.5°	449.0	449.6	452.6	457.5	462.9	470.8	479.2	487.9	496.0	503.2	509.7
20°	462.9	463.5	467.3	472.6	479.0	487.1	495.5	504.6	513.7	521.3	528.6
22.5°	482.6	483.5	487.1	492.5	499.6	508.4	518.3	528.0	536.7	543.7	550.2
25°	508.4	510.5	513.9	519.9	527.4	535.4	546.1	556.0	564.3	570.9	575.6
27.5°	544.9	547.9	550.4	556.2	563.5	571.1	581.8	590.5	598.5	604.8	608.4
30°	593.3	596.3	598.9	604.4	611.2	618.3	628.4	636.2	641.2	646.1	645.9
32.5°	652.1	655.2	656.2	662.2	669.1	676.9	686.0	690.4	694.4	694.9	691.4
35°	717.8	719.4	723.3	731.3	739.2	745.6	754.3	756.5	756.5	753.5	745.6
37.5°	789.8	790.8	796.4	805.3	813.5	820.0	826.0	830.3	828.1	821.8	808.5
40°	868.8	870.6	878.6	886.5	895.6	901.8	908.1	908.9	906.7	897.4	879.4
42.5°	944.3	945.8	953.8	966.3	978.2	986.7	992.7	993.9	986.9	978.4	956.0
45°	1009.2	1013.3	1023.7	1038.3	1055.6	1067.7	1075.9	1079.2	1073.1	1062.0	1036.0
47.5°	1060.6	1064.8	1079.4	1096.9	1118.3	1138.0	1151.5	1158.6	1157.1	1148.7	1120.3
50°	1098.3	1102.3	1118.1	1139.6	1164.6	1189.0	1212.0	1229.1	1235.1	1231.3	1205.3
52.5°	1102.7	1109.2	1127.9	1156.7	1189.2	1222.6	1255.3	1284.3	1303.9	1306.9	1287.7
55°	1041.7	1048.3	1074.1	1116.8	1165.2	1219.6	1272.0	1320.8	1359.5	1379.4	1369.2
57.5°	898.0	909.7	936.9	986.9	1058.2	1139.6	1223.2	1309.9	1388.7	1441.3	1451.4
60°	688.2	702.1	729.5	782.7	862.1	959.1	1070.7	1198.9	1338.1	1456.4	1527.1
62.5°	441.5	454.6	483.3	529.6	594.3	699.5	819.2	971.5	1158.4	1345.2	1513.6
65°	226.9	234.0	249.1	277.1	327.5	406.1	513.5	665.4	879.2	1109.6	1353.0
67.5°	143.7	145.1	148.5	152.4	165.3	192.5	242.6	337.3	513.1	753.5	1038.3
70°	124.3	124.3	122.7	122.1	123.7	127.4	135.2	157.2	216.6	357.7	598.9
72.5°	113.7	112.5	109.8	107.6	107.2	107.2	108.8	112.2	121.7	145.7	234.4
75°	104.8	101.4	97.7	95.1	94.1	93.1	92.9	93.5	95.5	99.2	112.0
77.5°	93.9	89.5	85.2	82.6	81.4	80.0	78.8	77.4	76.4	77.6	83.2
80°	80.8	75.8	72.5	70.9	69.7	67.7	65.1	62.7	60.5	60.1	63.5
82.5°	65.1	59.4	59.5	60.1	58.0	55.2	52.4	49.8	46.1	44.1	46.1
85°	52.6	49.6	48.2	52.0	48.8	44.7	40.3	35.7	29.8	25.0	27.2
87.5°	20.4	20.4	30.6	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°	465.9	465.9	465.9	465.9	465.9	465.9	465.9	465.9
2.5°	466.7	467.1	466.9	466.7	466.7	466.5	466.7	466.7
5°	470.2	471.2	471.2	471.6	471.6	471.8	472.0	471.8
7.5°	475.6	477.4	478.6	480.0	480.2	480.4	480.8	480.4
10°	481.0	484.5	487.1	489.7	490.9	491.3	491.7	491.7
12.5°	487.7	492.7	497.2	501.8	504.0	505.2	505.2	506.0
15°	498.8	503.8	509.2	515.3	519.1	521.1	521.7	521.7
17.5°	514.5	518.9	523.4	529.4	534.2	536.7	537.3	537.1
20°	532.8	536.9	539.5	543.3	547.5	550.4	551.2	551.2
22.5°	553.6	556.0	556.4	557.6	561.0	564.9	566.7	567.1
25°	576.6	577.2	575.6	575.6	577.8	581.6	583.4	583.6
27.5°	606.4	603.4	599.5	598.1	599.5	603.8	606.0	606.8
30°	643.5	636.4	627.3	622.3	621.5	627.3	631.2	631.8
32.5°	686.0	675.7	663.6	653.5	650.9	654.5	659.2	659.0
35°	736.4	724.1	709.4	696.5	690.6	694.2	700.9	701.7
37.5°	794.6	778.5	761.6	745.4	736.0	737.0	744.2	746.6
40°	859.5	838.7	817.4	795.6	782.3	779.7	788.4	789.8
42.5°	929.0	902.2	875.4	848.4	831.3	827.3	837.5	836.9
45°	1003.0	968.9	937.5	907.7	887.5	881.5	889.9	889.9
47.5°	1082.6	1040.5	1003.2	969.5	947.4	938.9	946.8	947.4
50°	1167.0	1122.3	1078.4	1040.9	1014.5	1003.6	1013.9	1015.5
52.5°	1250.9	1207.5	1163.2	1120.3	1088.4	1075.1	1087.0	1092.1
55°	1336.1	1293.4	1251.1	1209.3	1171.3	1155.7	1168.4	1174.9
57.5°	1426.0	1386.5	1346.2	1303.9	1267.4	1243.0	1256.5	1265.2
60°	1531.4	1497.7	1455.8	1409.1	1372.2	1347.4	1355.2	1362.9
62.5°	1614.8	1627.9	1592.4	1538.4	1490.9	1459.2	1466.7	1474.8
65°	1574.5	1708.9	1740.4	1685.9	1620.2	1570.7	1567.5	1571.7
67.5°	1316.1	1577.1	1767.4	1819.4	1764.5	1695.8	1683.1	1689.2
70°	880.3	1205.5	1541.3	1791.5	1858.0	1831.4	1818.8	1822.6
72.5°	422.8	702.1	1045.7	1378.2	1580.6	1673.5	1703.3	1717.8
75°	154.6	278.7	504.0	759.5	916.9	1061.4	1155.7	1194.2
77.5°	93.3	112.5	161.0	242.4	274.5	307.3	294.6	300.9
80°	69.1	78.0	88.3	99.2	102.8	102.8	98.9	95.7
82.5°	48.4	54.2	59.2	65.1	66.7	63.7	52.4	41.7
85°	31.2	33.7	35.9	39.7	38.7	36.9	24.8	22.0
87.5°	14.3	16.3	17.1	18.9	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)