

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: P270139

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270139
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-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 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: 4688.5 lumens
Efficiency: N/A
Efficacy: 106.6 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

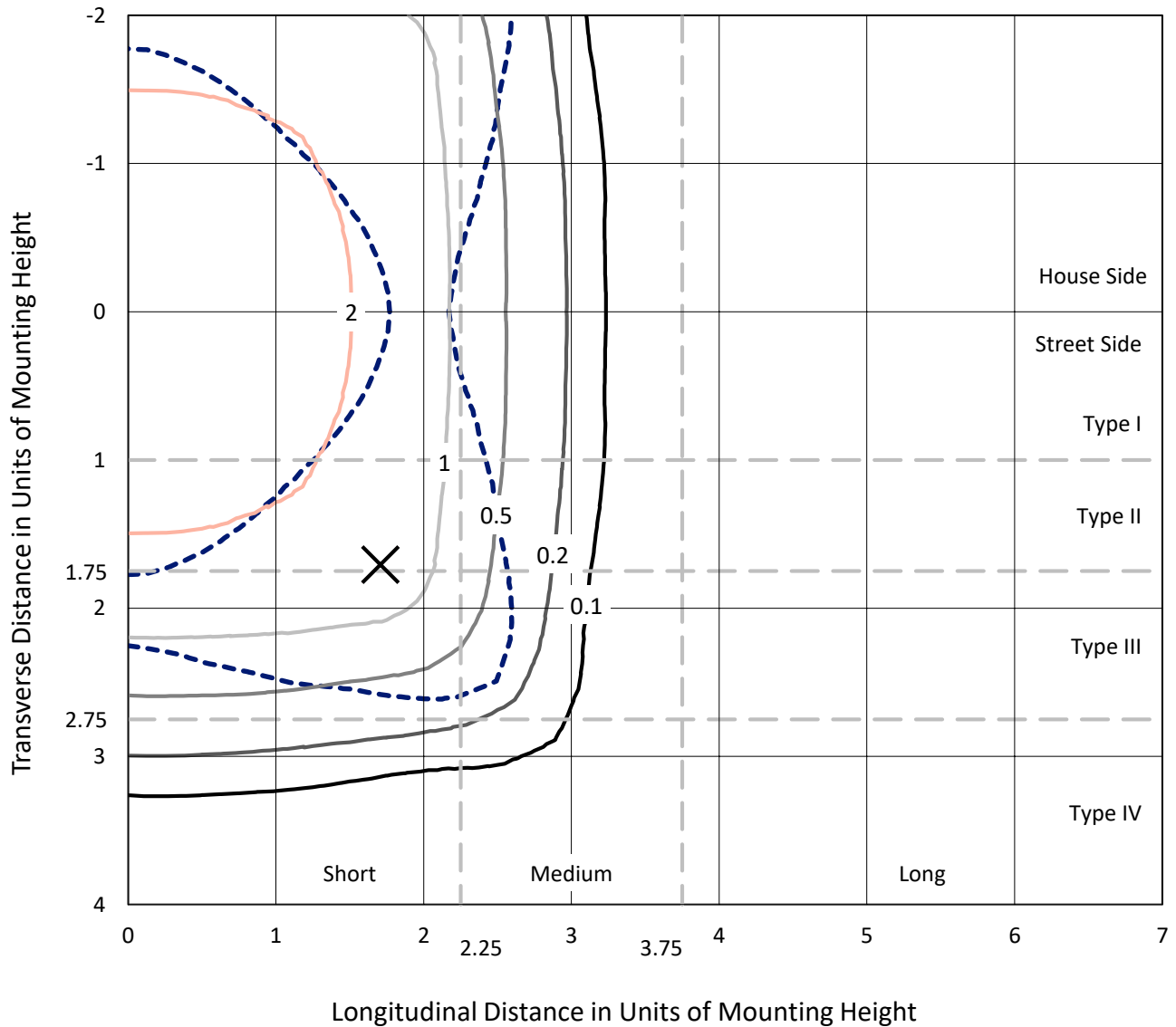


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Iso-Footcandle Lines of Horizontal Illumination

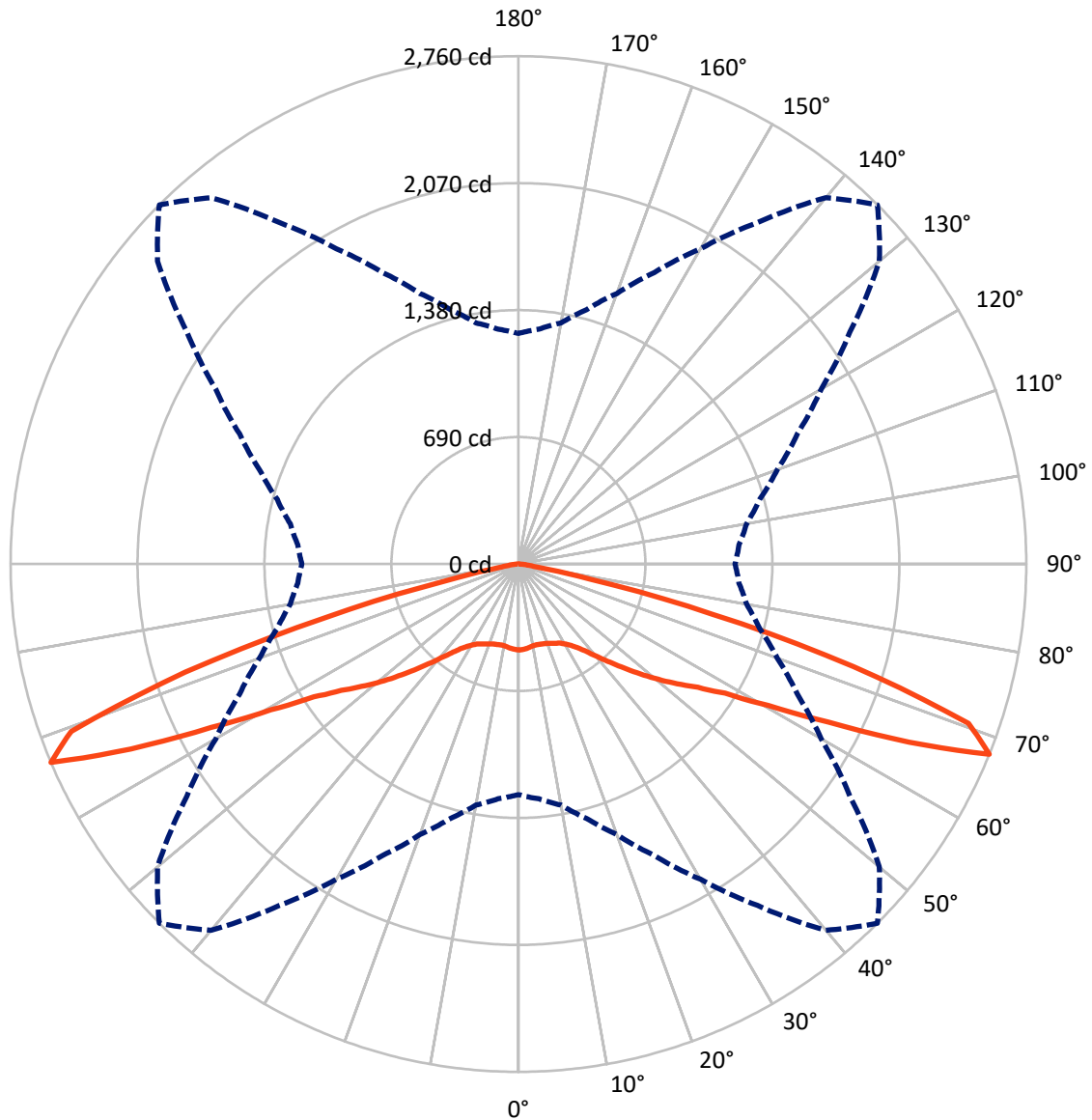
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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	2344.3	0.0	2344.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2344.3	0.0	2344.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4688.5	0.0	4688.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	0.9
10°-20°	126.9	2.7
20°-30°	215.7	4.6
30°-40°	352.6	7.5
40°-50°	629.5	13.4
50°-60°	1061.4	22.6
60°-70°	1647.2	35.1
70°-80°	578.7	12.3
80°-90°	32.7	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°	4688.5	100.0
0°-180°	4688.5	100.0



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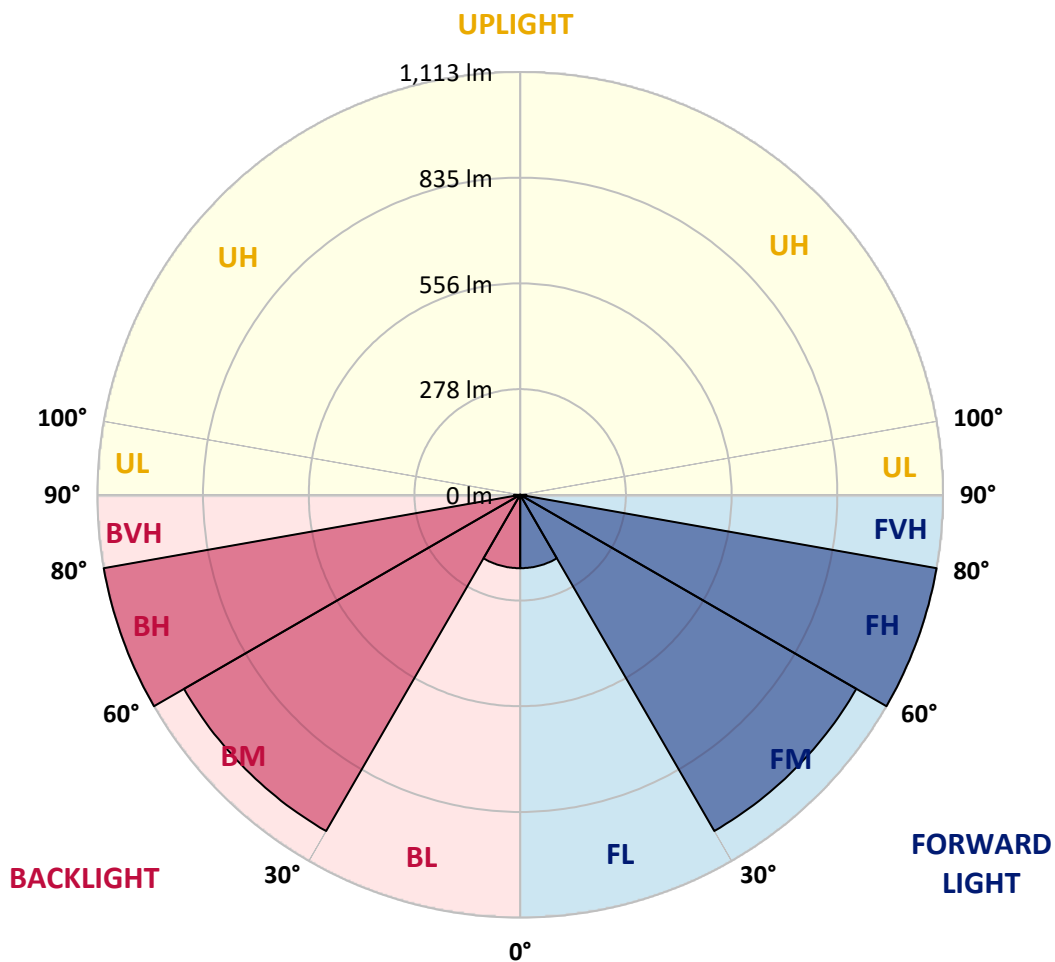
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.2	4.1			
FM	(30°-60°)	1021.8	21.8			
FH	(60°-80°)	1112.9	23.7			G1/1800
FVH	(80°-90°)	16.3	0.3			G1/100
BL	(0°-30°)	193.2	4.1	B1/500		
BM	(30°-60°)	1021.8	21.8	B2/2500		
BH	(60°-80°)	1112.9	23.7	B3/2500		G1/1800
BVH	(80°-90°)	16.3	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°	467.2	467.2	467.2	467.2	467.2	467.2	467.2	467.2	467.2	467.2	467.2
2.5°	465.5	466.0	466.0	466.0	465.7	465.7	465.3	465.7	465.5	464.9	465.1
5°	461.5	462.1	462.1	461.9	462.4	462.3	461.5	462.1	461.9	461.4	461.5
7.5°	456.0	456.7	456.7	456.5	457.1	456.9	456.5	456.7	456.7	456.0	456.0
10°	449.8	450.2	450.2	450.1	451.0	451.0	450.9	451.5	451.7	451.0	450.6
12.5°	443.9	444.7	444.7	445.5	446.5	446.9	448.1	449.0	449.8	449.5	448.8
15°	440.4	440.9	441.7	442.9	444.7	446.1	447.9	449.8	451.5	451.9	450.6
17.5°	438.4	439.0	440.3	441.7	444.1	446.7	449.3	451.9	454.4	455.1	453.6
20°	437.7	438.2	439.5	442.0	445.2	449.2	452.7	455.8	459.0	460.1	459.0
22.5°	439.0	439.8	441.3	444.4	448.8	453.6	458.0	462.1	466.1	468.0	466.6
25°	444.8	445.6	447.6	451.5	456.2	461.4	466.4	471.2	474.8	476.7	475.7
27.5°	455.6	456.7	459.0	462.9	468.0	473.6	479.1	483.0	486.1	486.6	485.4
30°	471.8	474.1	476.9	481.2	487.3	492.0	497.4	500.9	504.6	504.6	503.5
32.5°	497.0	499.4	502.4	506.5	511.2	516.3	521.1	524.2	528.1	528.3	525.7
35°	534.8	535.7	538.4	541.0	545.4	549.9	554.0	555.8	559.0	559.4	556.9
37.5°	584.5	584.7	586.5	587.3	591.3	596.1	600.1	601.3	604.4	603.9	601.5
40°	642.5	643.5	644.3	645.5	649.7	654.3	658.5	659.1	662.4	661.7	658.6
42.5°	709.7	710.0	713.7	715.6	719.5	721.9	727.1	727.6	731.6	729.9	726.4
45°	784.8	788.7	792.1	796.1	800.1	802.9	807.0	806.1	808.7	806.1	804.3
47.5°	864.0	866.8	874.5	880.6	887.3	889.6	895.4	892.8	895.4	891.7	891.1
50°	951.0	956.1	962.8	969.6	976.7	980.6	988.1	984.9	988.3	984.9	982.9
52.5°	1036.9	1038.3	1052.9	1063.0	1072.8	1077.3	1082.0	1080.4	1080.7	1080.4	1078.4
55°	1118.4	1121.4	1136.0	1149.9	1167.1	1179.8	1187.6	1186.8	1184.8	1182.9	1179.7
57.5°	1210.2	1213.3	1230.0	1247.0	1266.7	1284.8	1300.6	1316.7	1323.1	1324.7	1317.6
60°	1334.4	1334.3	1356.6	1377.3	1405.4	1432.3	1466.8	1502.0	1542.3	1561.1	1536.2
62.5°	1460.7	1465.9	1498.4	1534.9	1592.8	1649.0	1712.6	1775.1	1839.0	1890.9	1835.7
65°	1445.7	1465.6	1513.6	1596.6	1703.4	1830.1	1967.3	2112.4	2243.4	2333.5	2232.5
67.5°	1253.0	1281.2	1330.1	1431.0	1564.5	1747.4	1977.6	2264.5	2598.2	2759.5	2559.5
70°	908.1	940.0	991.4	1090.0	1222.1	1395.8	1646.0	1990.6	2432.2	2594.7	2374.5
72.5°	451.9	469.2	500.9	563.5	663.7	804.6	1031.6	1362.6	1753.3	1902.6	1701.4
75°	153.5	161.4	166.8	187.3	219.0	274.5	387.2	595.8	908.8	1089.5	895.9
77.5°	88.7	88.8	92.4	96.2	101.6	107.5	122.7	161.1	278.6	395.7	288.3
80°	57.3	57.1	60.1	62.9	66.7	69.7	70.4	74.6	86.1	102.0	91.2
82.5°	29.7	33.4	40.2	43.7	50.7	51.9	50.2	48.7	51.6	53.4	54.7
85°	16.3	14.3	21.3	27.6	30.6	31.0	31.0	29.4	30.5	29.7	32.3
87.5°	7.5	6.8	8.4	13.6	14.5	12.2	12.9	11.4	8.2	7.9	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°	467.2	467.2	467.2	467.2	467.2	467.2	467.2	467.2
2.5°	465.1	465.3	465.3	466.0	466.1	466.6	466.9	467.2
5°	461.4	462.1	461.5	462.3	462.3	462.6	462.6	462.9
7.5°	456.0	456.7	456.7	456.7	456.5	457.1	457.1	457.1
10°	450.4	450.9	450.6	450.2	449.8	450.4	450.2	450.1
12.5°	448.8	447.6	446.7	446.3	445.5	445.6	445.0	445.0
15°	449.8	447.9	446.3	445.6	444.8	444.4	443.9	444.1
17.5°	452.6	450.2	448.3	447.1	446.1	445.5	444.7	444.8
20°	457.5	454.7	451.9	449.8	447.9	446.7	446.1	445.9
22.5°	464.9	460.8	456.7	453.5	450.9	449.3	448.8	448.3
25°	473.2	468.7	464.1	460.3	457.7	455.8	454.5	454.5
27.5°	483.8	480.1	475.8	471.5	469.2	467.2	466.4	466.0
30°	501.6	498.1	494.5	490.6	487.5	485.5	484.0	482.7
32.5°	524.2	521.3	518.5	515.5	512.8	510.1	507.7	506.6
35°	556.1	554.0	552.0	548.5	547.4	545.9	544.6	543.6
37.5°	600.1	599.2	599.2	595.5	594.7	594.0	592.7	592.9
40°	657.7	658.6	657.6	656.3	655.7	654.0	654.0	655.5
42.5°	726.2	726.8	729.2	727.1	729.5	727.3	726.0	727.1
45°	805.5	807.8	812.6	810.5	812.0	808.4	803.9	804.1
47.5°	894.6	896.8	898.7	897.1	897.3	891.4	885.3	883.8
50°	987.1	988.0	989.0	986.9	987.2	980.6	973.8	973.9
52.5°	1078.4	1082.5	1086.9	1081.1	1079.9	1072.2	1062.5	1058.7
55°	1183.1	1188.8	1184.0	1173.7	1163.7	1153.6	1140.8	1138.6
57.5°	1312.1	1302.2	1286.6	1267.4	1253.3	1239.1	1226.1	1220.7
60°	1491.4	1454.0	1426.1	1397.7	1379.6	1362.2	1345.2	1342.6
62.5°	1745.0	1680.5	1624.7	1565.7	1517.6	1480.1	1450.3	1441.8
65°	2062.8	1910.3	1778.1	1654.8	1547.7	1466.8	1415.9	1393.5
67.5°	2199.5	1898.5	1671.8	1496.8	1356.6	1258.7	1203.8	1176.4
70°	1932.8	1574.4	1328.0	1152.6	1025.1	920.7	870.8	841.5
72.5°	1329.8	1001.5	791.9	646.4	544.5	457.1	422.7	420.0
75°	597.1	395.4	272.5	210.1	176.7	153.7	146.7	141.3
77.5°	167.2	123.5	110.2	103.0	96.2	88.2	85.2	85.8
80°	81.2	76.7	73.8	69.2	62.9	56.2	53.3	54.5
82.5°	53.9	53.3	55.2	51.9	42.8	36.4	30.6	28.0
85°	32.8	33.1	33.9	34.0	28.8	20.2	13.8	15.5
87.5°	12.9	14.9	16.2	16.8	15.7	9.7	7.7	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)