

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: P647755

Luminaire Tested: **GALN-SA2A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6109.1 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 63
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: 24 FT

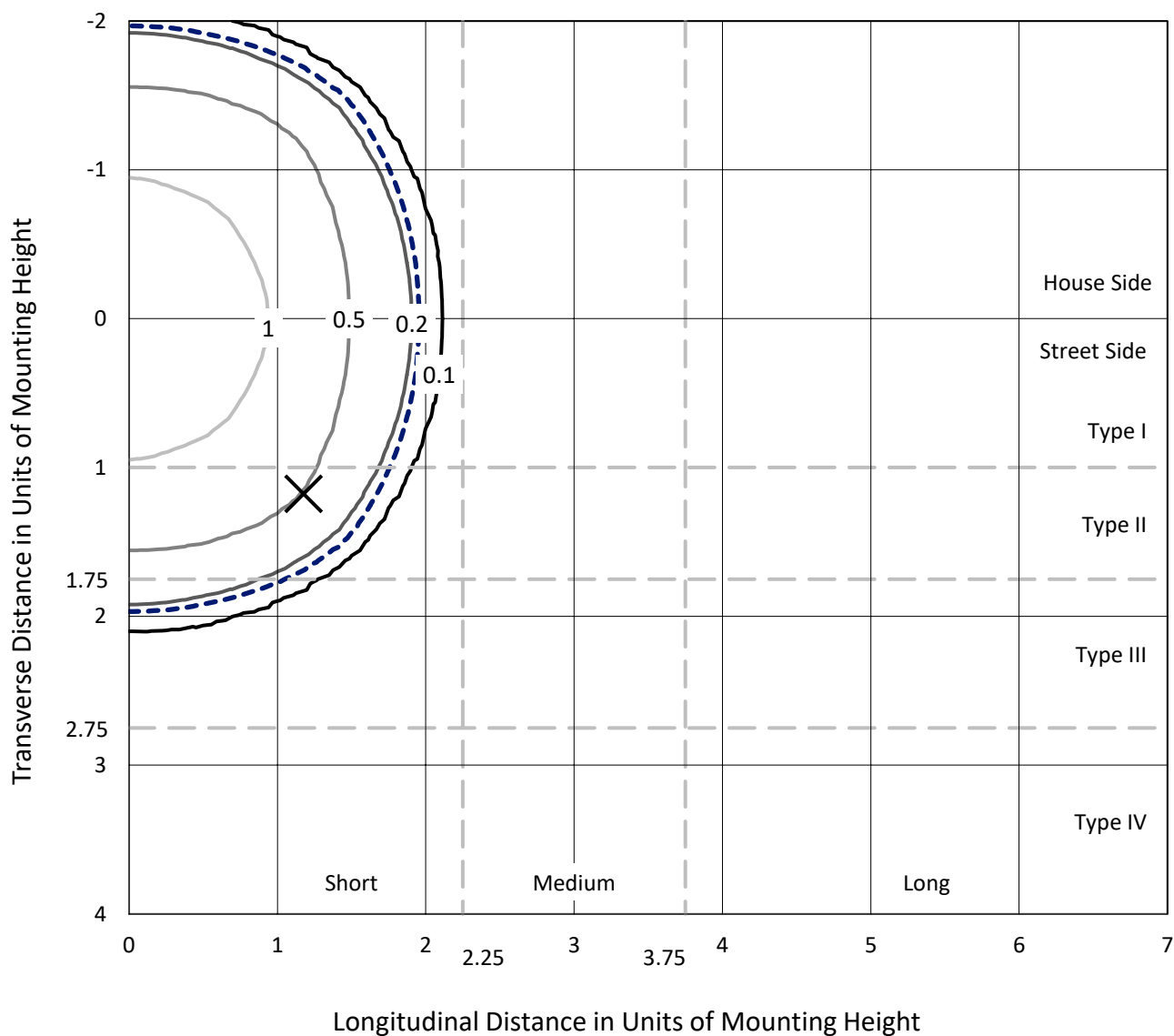


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

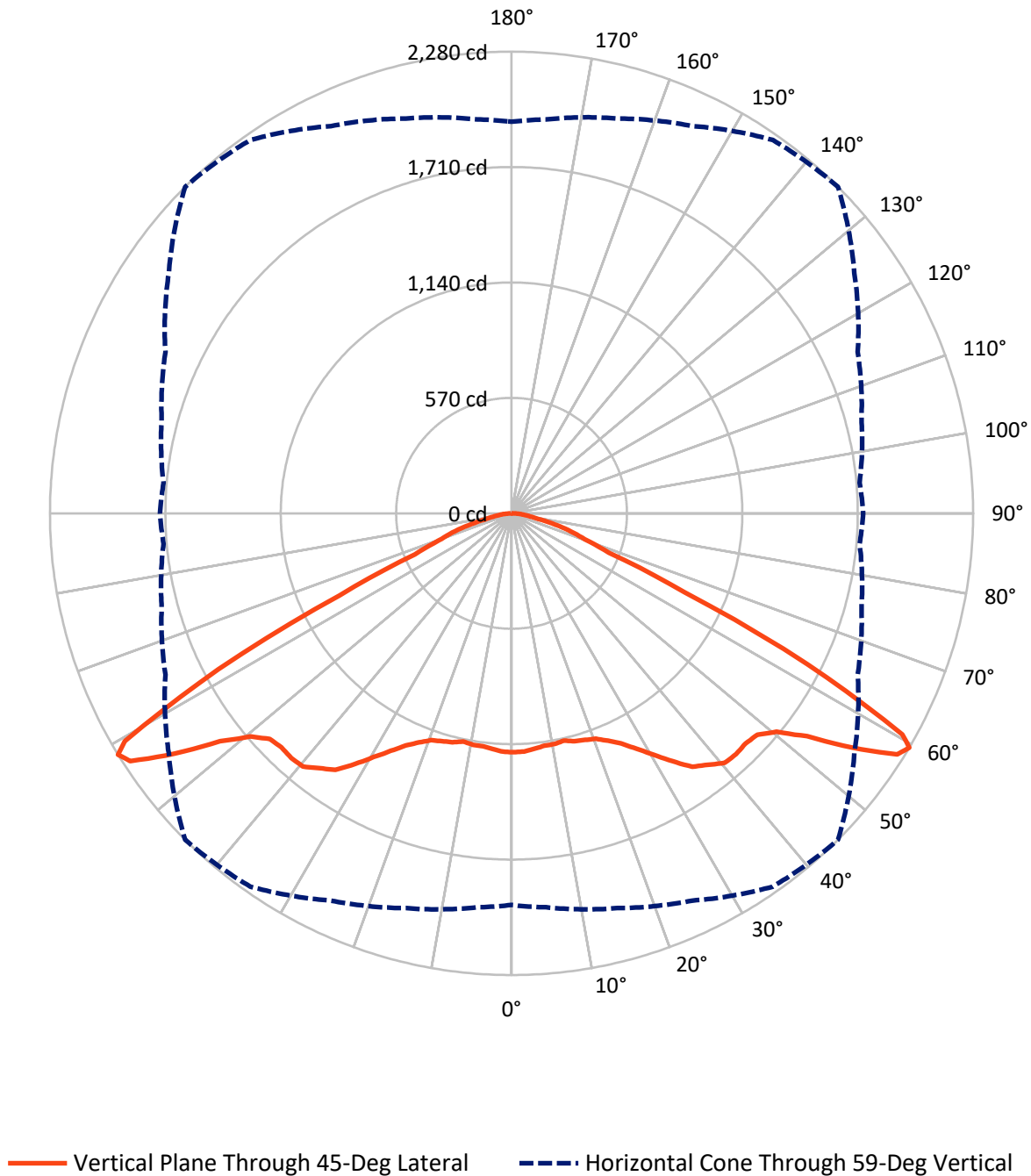


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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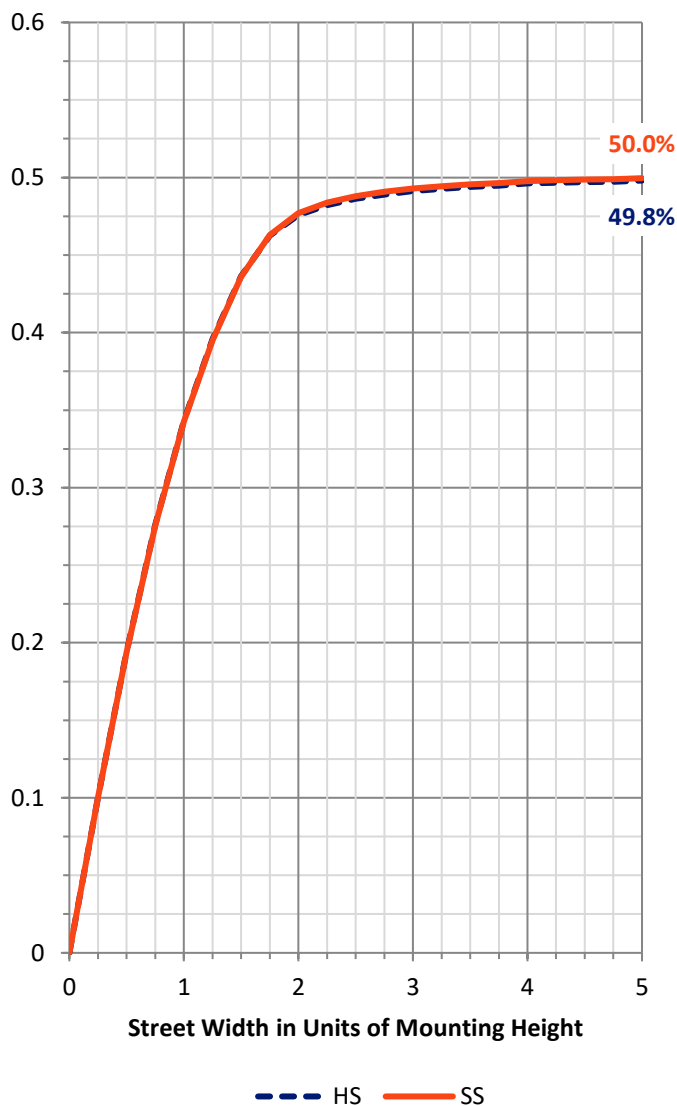
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3054.5	0.0	3054.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3054.5	0.0	3054.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6109.1	0.0	6109.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	1.8
10°-20°	330.8	5.4
20°-30°	577.6	9.5
30°-40°	922.5	15.1
40°-50°	1256.6	20.6
50°-60°	1699.3	27.8
60°-70°	931.9	15.3
70°-80°	238.4	3.9
80°-90°	40.7	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°	6109.1	100.0
0°-180°	6109.1	100.0

Coefficient of Utilization



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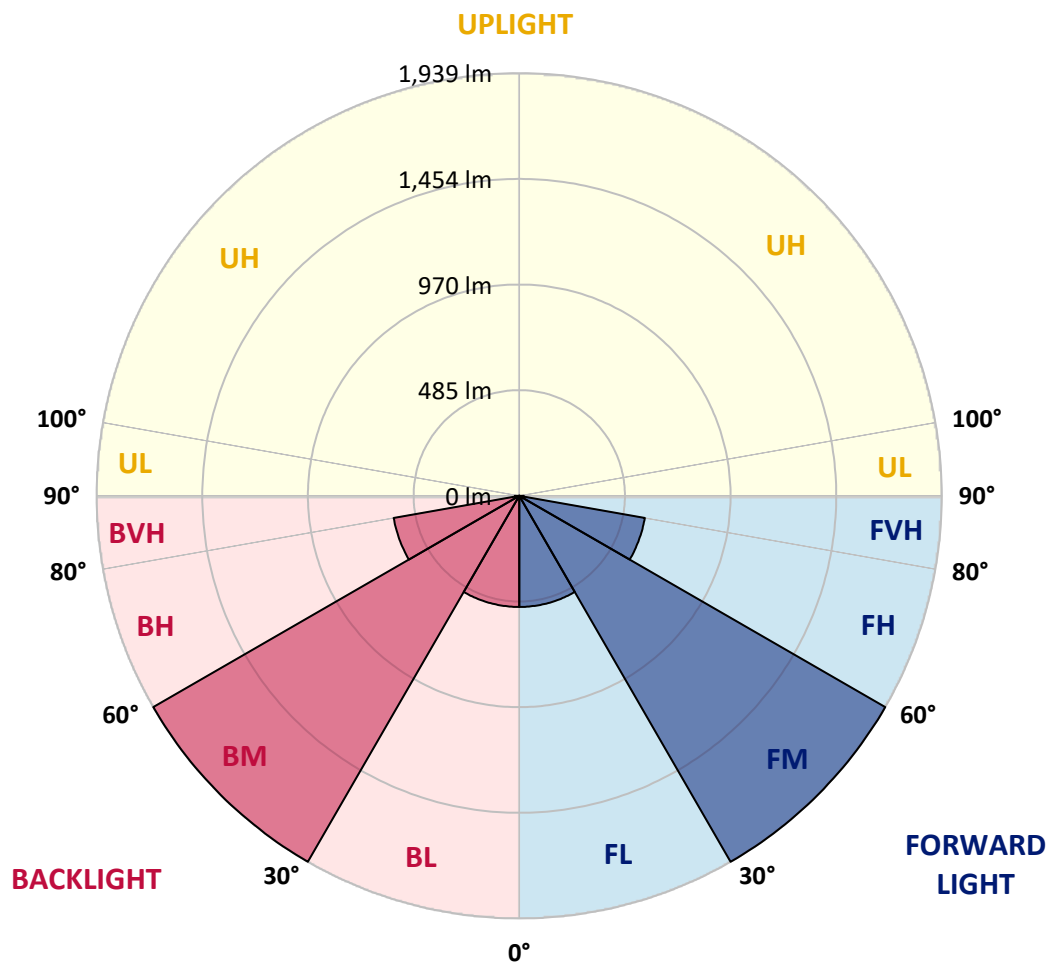
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.8	8.3			
FM	(30°-60°)	1939.2	31.7			
FH	(60°-80°)	585.2	9.6			G0/660
FVH	(80°-90°)	20.3	0.3			G1/100
BL	(0°-30°)	509.8	8.3	B2/1000		
BM	(30°-60°)	1939.2	31.7	B2/2500		
BH	(60°-80°)	585.2	9.6	B2/1000		G0/660
BVH	(80°-90°)	20.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0
2.5°	1172.9	1181.5	1175.3	1180.8	1180.0	1177.6	1173.7	1171.4	1168.2	1172.9	1165.1
5°	1168.2	1175.3	1182.3	1172.9	1172.9	1168.2	1165.9	1161.2	1161.2	1160.4	1159.6
7.5°	1176.1	1169.0	1165.9	1167.5	1169.0	1158.8	1165.9	1156.5	1148.7	1154.1	1160.4
10°	1169.0	1172.2	1160.4	1165.9	1157.3	1158.8	1154.1	1160.4	1151.8	1151.8	1151.8
12.5°	1176.1	1167.5	1171.4	1167.5	1165.1	1151.8	1158.1	1151.0	1150.2	1158.1	1151.0
15°	1190.2	1176.1	1172.9	1165.1	1167.5	1167.5	1161.2	1162.0	1153.4	1158.1	1159.6
17.5°	1185.5	1177.6	1175.3	1165.9	1173.7	1176.1	1164.3	1156.5	1162.0	1161.2	1160.4
20°	1189.4	1192.5	1190.2	1191.7	1194.9	1188.6	1177.6	1166.7	1159.6	1169.8	1169.0
22.5°	1214.4	1211.3	1209.7	1208.2	1213.6	1219.9	1205.0	1187.8	1187.8	1194.9	1198.0
25°	1234.8	1234.0	1233.2	1240.3	1259.1	1259.1	1240.3	1218.3	1212.9	1217.6	1213.6
27.5°	1264.5	1273.2	1270.0	1282.6	1310.0	1316.2	1291.2	1265.3	1250.5	1245.0	1252.0
30°	1332.7	1322.5	1324.8	1338.1	1362.4	1382.8	1344.4	1317.0	1296.6	1295.9	1299.0
32.5°	1378.1	1385.9	1393.0	1405.5	1443.9	1459.5	1413.3	1368.7	1356.2	1349.1	1351.5
35°	1468.9	1461.9	1460.3	1472.8	1511.2	1537.0	1479.1	1439.9	1423.5	1439.2	1439.2
37.5°	1555.0	1535.5	1520.6	1537.0	1572.3	1575.4	1526.1	1504.9	1496.3	1514.3	1513.5
40°	1595.8	1594.2	1559.7	1569.1	1616.1	1620.8	1574.6	1549.6	1548.0	1571.5	1595.0
42.5°	1638.0	1623.2	1588.7	1595.0	1623.9	1625.5	1581.7	1574.6	1591.8	1614.5	1616.1
45°	1645.1	1632.6	1610.6	1595.0	1616.1	1620.8	1595.0	1599.7	1601.2	1628.6	1628.6
47.5°	1659.2	1657.6	1645.1	1633.3	1637.3	1633.3	1616.9	1623.9	1647.4	1660.7	1654.5
50°	1698.3	1681.9	1694.4	1684.2	1685.0	1696.0	1681.1	1688.1	1683.4	1671.7	1663.9
52.5°	1784.5	1776.6	1787.6	1794.6	1802.5	1827.5	1810.3	1772.7	1737.5	1706.2	1705.4
55°	1910.5	1916.0	1937.1	1973.2	2003.7	2043.6	1960.6	1870.6	1814.2	1764.9	1768.0
57.5°	2029.5	2025.6	2054.6	2136.8	2226.0	2246.3	2083.6	1955.2	1863.5	1832.2	1818.9
59°	1934.0	1952.8	2018.6	2110.2	2250.3	2280.0	2067.1	1886.2	1789.2	1725.7	1736.7
60°	1783.7	1790.7	1849.4	1977.1	2166.6	2217.4	1956.7	1779.8	1650.6	1613.8	1630.2
62.5°	1260.6	1255.1	1297.4	1401.6	1571.5	1640.4	1454.8	1330.3	1248.9	1208.2	1217.6
65°	670.2	695.3	712.5	777.5	867.6	940.4	863.6	809.6	764.2	730.5	729.8
67.5°	452.6	449.4	453.4	468.2	498.8	519.1	517.6	490.2	486.2	480.0	487.0
70°	381.3	379.8	372.7	372.7	379.0	383.7	389.2	392.3	398.5	406.4	405.6
72.5°	309.3	305.4	300.7	298.3	306.2	308.5	315.5	318.7	324.2	323.4	330.4
75°	204.4	204.4	209.8	216.1	218.5	223.2	223.9	233.3	233.3	234.9	228.6
77.5°	114.3	111.2	115.1	121.4	126.8	135.5	144.1	151.1	155.0	153.5	153.5
80°	66.6	66.6	70.5	77.5	84.6	92.4	98.7	104.1	108.1	106.5	103.4
82.5°	41.5	41.5	45.4	52.5	57.9	62.6	71.3	78.3	83.0	81.4	77.5
85°	21.1	21.1	25.8	30.5	37.6	40.7	39.9	36.8	36.0	32.1	32.1
87.5°	5.5	5.5	7.8	8.6	7.0	7.8	7.8	7.8	7.8	7.8	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)