

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: P453148

Luminaire Tested: **GALN-SA4A-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15078 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 121
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

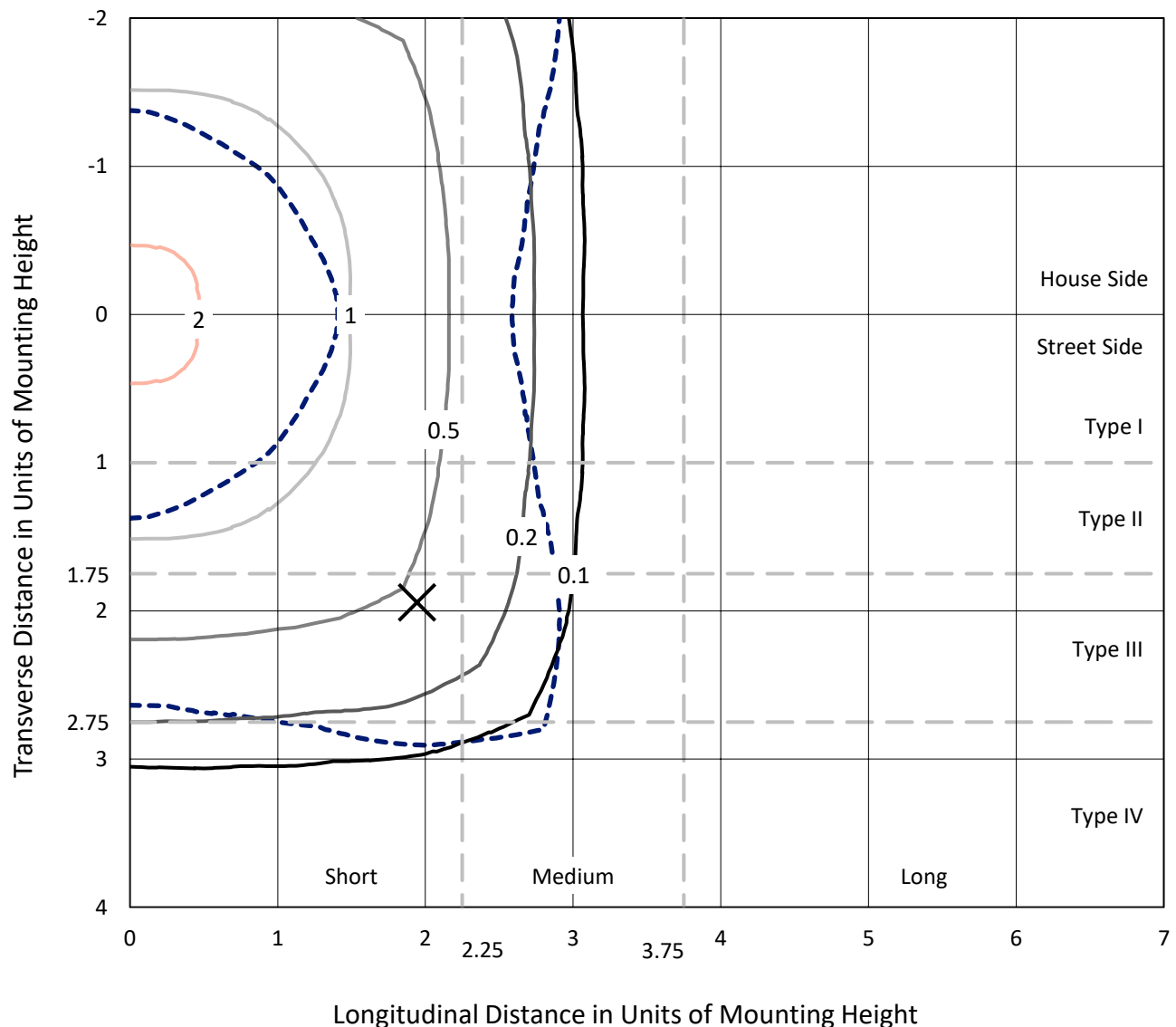


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

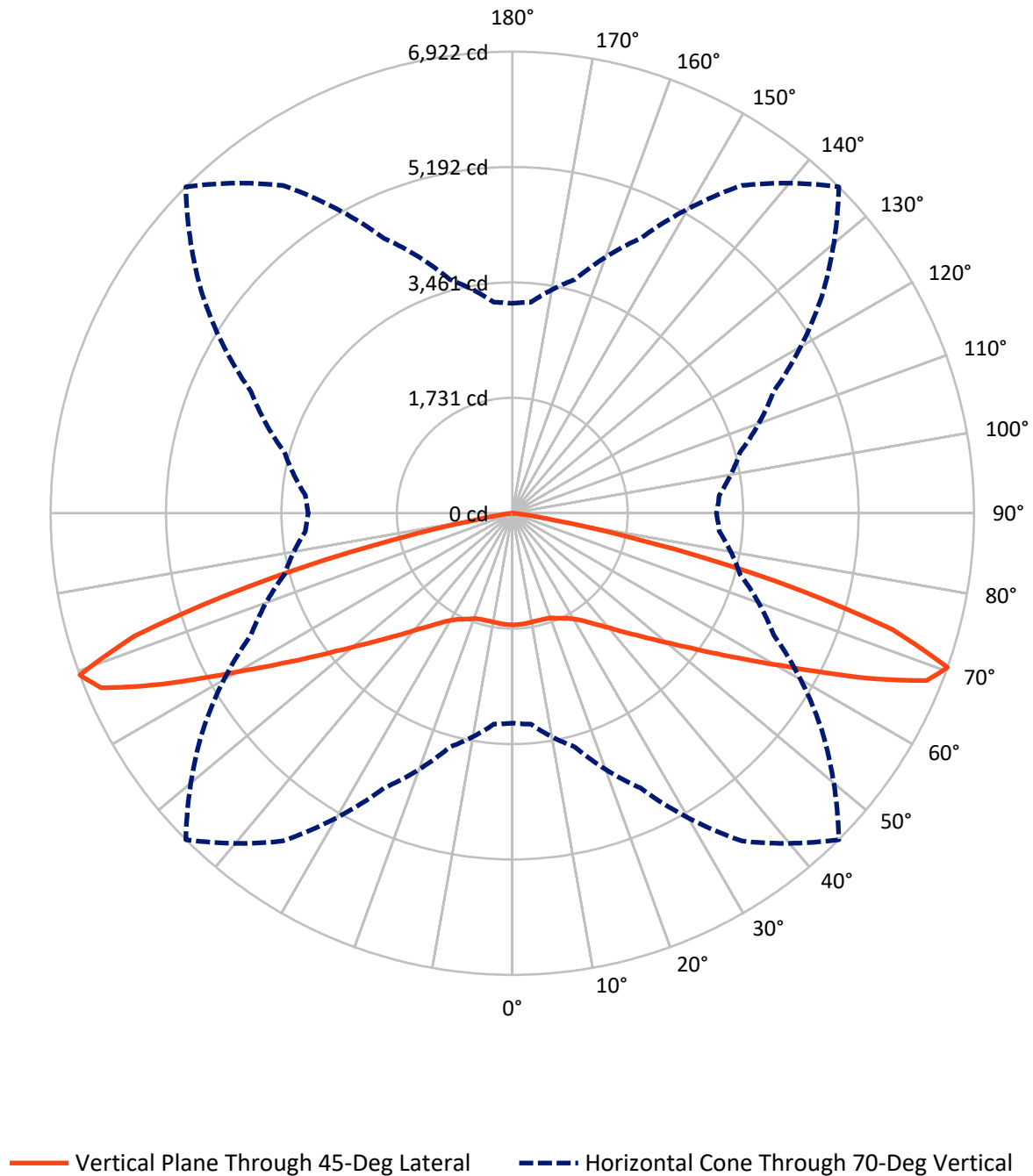


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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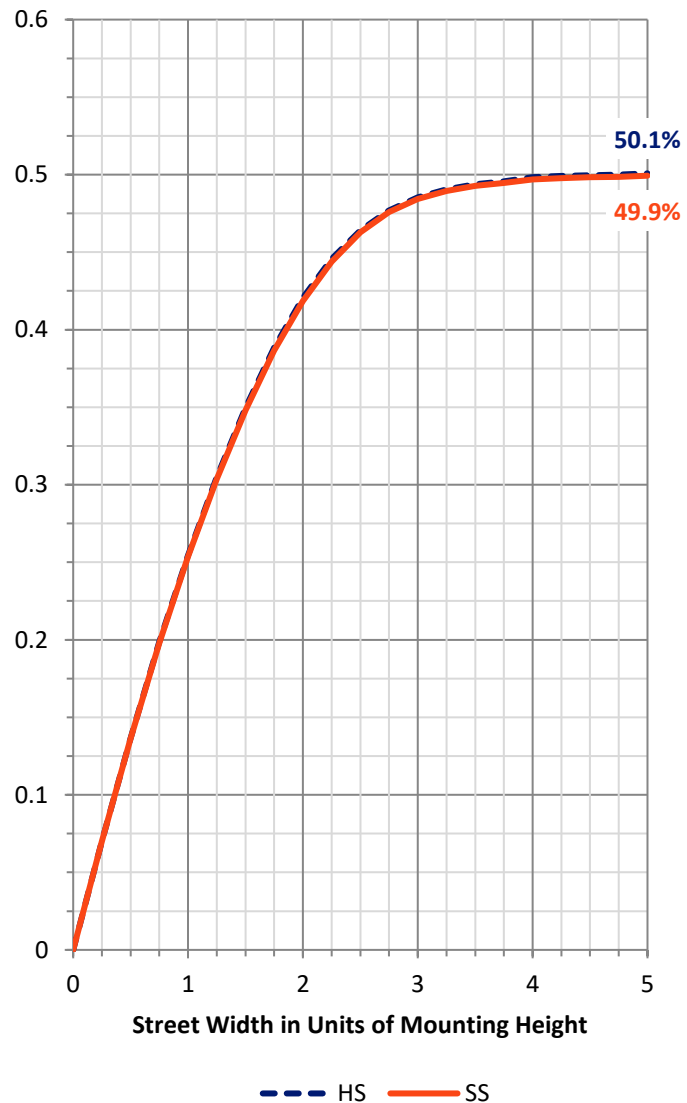
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7539.0	0.0	7539.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7539.0	0.0	7539.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15078.0	0.0	15078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	1.1
10°-20°	465.9	3.1
20°-30°	796.9	5.3
30°-40°	1264.8	8.4
40°-50°	2040.4	13.5
50°-60°	3319.8	22.0
60°-70°	4812.5	31.9
70°-80°	2134.7	14.2
80°-90°	84.2	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°	15078.0	100.0
0°-180°	15078.0	100.0

Coefficient of Utilization



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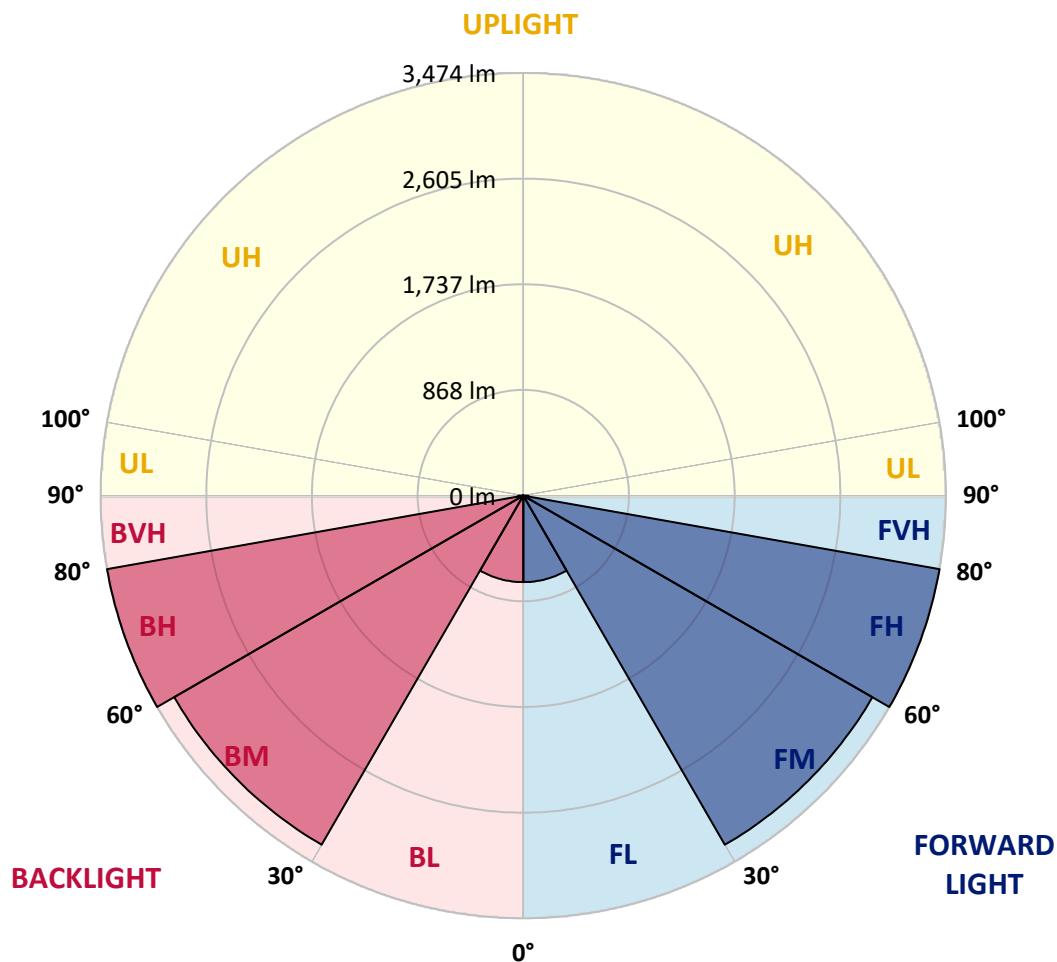
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.8	4.7			
FM	(30°-60°)	3312.5	22.0			
FH	(60°-80°)	3473.6	23.0			G2/5000
FVH	(80°-90°)	42.1	0.3			G1/100
BL	(0°-30°)	710.8	4.7	B2/1000		
BM	(30°-60°)	3312.5	22.0	B3/5000		
BH	(60°-80°)	3473.6	23.0	B4/5000		G2/5000
BVH	(80°-90°)	42.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1674.3	1675.9	1673.5	1672.0	1671.2	1671.2	1670.4	1671.2	1675.9	1676.7	1674.3
5°	1669.6	1671.2	1670.4	1668.8	1668.0	1668.0	1667.2	1666.4	1670.4	1672.0	1671.2
7.5°	1663.2	1664.0	1663.2	1662.4	1663.2	1662.4	1660.0	1658.4	1661.6	1661.6	1660.8
10°	1652.1	1653.7	1652.9	1653.7	1655.3	1655.3	1652.1	1648.9	1649.7	1648.1	1648.1
12.5°	1638.6	1641.0	1641.8	1644.9	1648.9	1653.7	1646.5	1639.4	1637.8	1637.0	1636.2
15°	1629.8	1632.2	1635.4	1638.6	1645.7	1656.1	1645.7	1634.6	1631.4	1628.3	1626.7
17.5°	1627.5	1630.6	1635.4	1640.2	1649.7	1660.0	1651.3	1640.2	1632.2	1627.5	1625.9
20°	1633.8	1636.2	1643.3	1652.1	1665.6	1675.9	1667.2	1655.3	1643.3	1636.2	1633.8
22.5°	1646.5	1650.5	1659.2	1675.1	1694.2	1709.3	1697.4	1677.5	1658.4	1648.9	1645.7
25°	1674.3	1677.5	1687.8	1709.3	1731.6	1745.9	1733.1	1710.1	1683.9	1671.2	1667.2
27.5°	1716.5	1721.2	1732.4	1757.8	1776.1	1784.0	1775.3	1759.4	1740.3	1726.8	1723.6
30°	1776.1	1781.6	1798.3	1825.3	1837.2	1842.0	1838.0	1827.7	1814.2	1799.9	1796.7
32.5°	1856.3	1859.5	1878.6	1904.0	1915.1	1916.7	1911.9	1907.2	1884.9	1861.1	1859.5
35°	1946.1	1951.7	1974.7	2004.9	2015.2	2016.0	2006.5	1999.4	1973.1	1954.1	1954.1
37.5°	2065.3	2067.7	2089.9	2124.1	2135.2	2132.1	2127.3	2120.9	2093.1	2068.5	2069.3
40°	2205.2	2209.9	2229.0	2268.7	2268.7	2264.8	2267.9	2263.2	2235.4	2211.5	2212.3
42.5°	2371.3	2373.6	2396.7	2438.8	2435.6	2427.7	2430.9	2424.5	2407.0	2380.0	2370.5
45°	2548.5	2558.0	2597.7	2638.3	2631.9	2606.5	2619.2	2617.6	2601.7	2561.2	2563.6
47.5°	2762.2	2778.1	2816.3	2864.7	2857.6	2817.9	2832.2	2841.7	2819.4	2774.9	2767.0
50°	3003.0	3013.3	3069.8	3115.1	3108.7	3066.6	3099.2	3100.7	3045.1	2982.3	2982.3
52.5°	3259.7	3270.0	3346.3	3417.0	3421.0	3359.8	3386.0	3384.4	3293.9	3211.2	3195.3
55°	3547.3	3552.1	3650.7	3754.8	3777.0	3717.4	3720.6	3688.8	3571.2	3475.0	3466.3
57.5°	3844.5	3862.0	3970.9	4106.0	4171.9	4135.4	4118.7	4033.7	3920.0	3809.6	3804.0
60°	4173.5	4174.3	4315.8	4475.5	4609.0	4633.6	4565.3	4451.7	4304.7	4158.4	4152.1
62.5°	4401.6	4435.8	4614.6	4884.8	5123.9	5262.2	5081.8	4843.4	4554.2	4318.2	4294.3
65°	4448.5	4471.5	4744.1	5201.8	5690.5	5988.5	5571.3	5064.3	4570.9	4256.2	4240.3
67.5°	4069.4	4094.1	4461.2	5163.7	6087.9	6699.0	5889.2	4957.9	4288.0	3898.6	3867.6
70°	3147.6	3175.4	3629.2	4545.4	5999.7	6922.3	5662.7	4324.5	3536.2	3115.8	3059.4
72.5°	1673.5	1776.1	2163.8	3119.8	4869.7	5959.9	4643.2	3155.6	2280.7	1864.3	1789.6
75°	611.1	623.8	840.0	1383.5	2832.9	4086.9	2941.8	1505.1	865.4	668.3	634.1
77.5°	252.7	251.9	276.5	418.0	1029.1	2093.1	1148.3	441.8	275.7	255.1	251.9
80°	149.4	149.4	164.5	174.0	271.0	631.8	302.8	197.1	165.3	151.0	153.4
82.5°	66.8	70.7	104.1	109.7	131.1	173.2	146.2	125.6	108.1	74.7	67.5
85°	36.6	31.8	54.8	57.2	62.8	64.4	69.1	68.3	62.8	36.6	37.3
87.5°	7.2	8.7	15.9	11.9	13.5	11.9	15.9	22.3	23.0	12.7	10.3
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)