

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: P451989

Luminaire Tested: **GALN-SA2D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12901 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 125
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



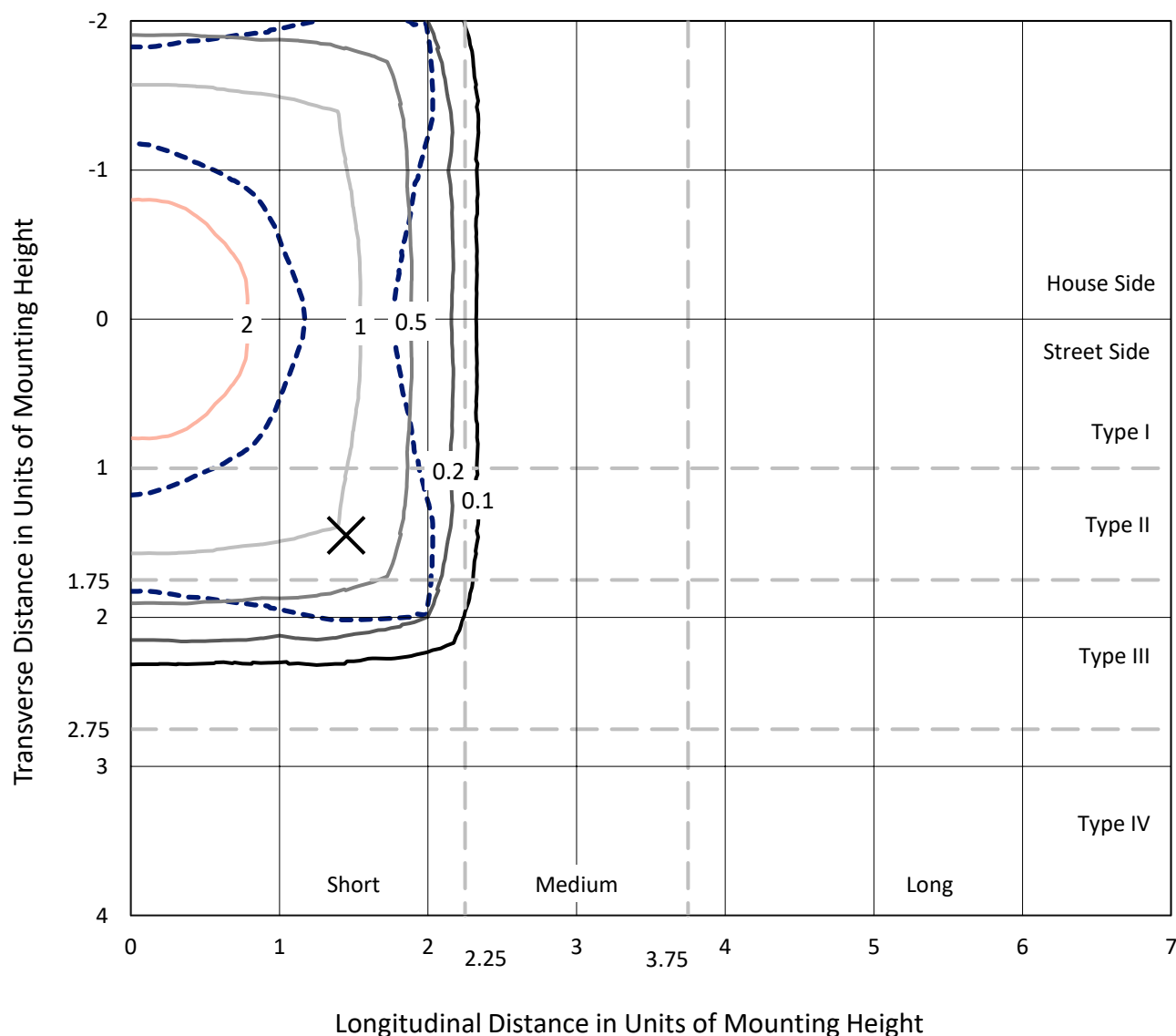
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

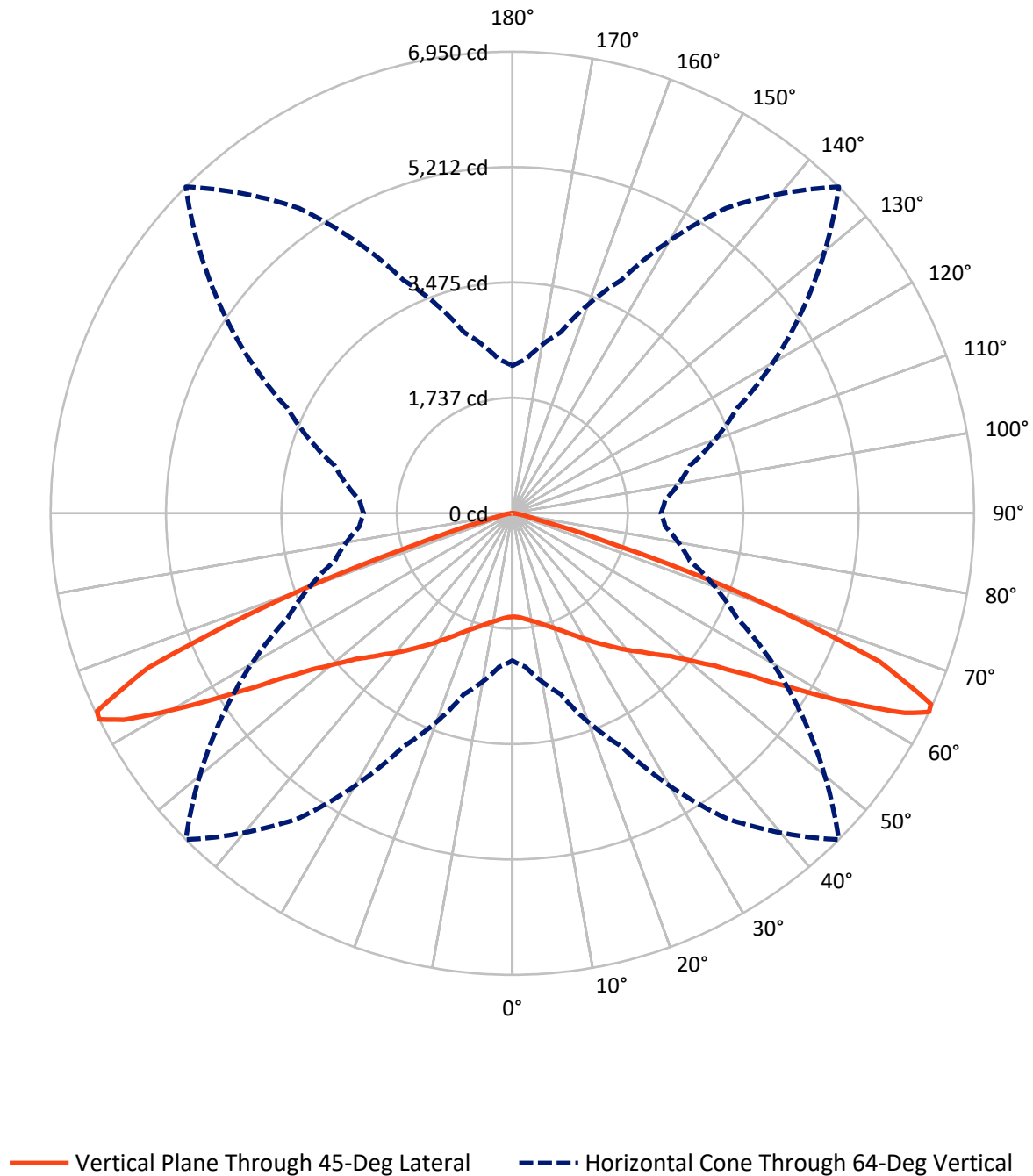


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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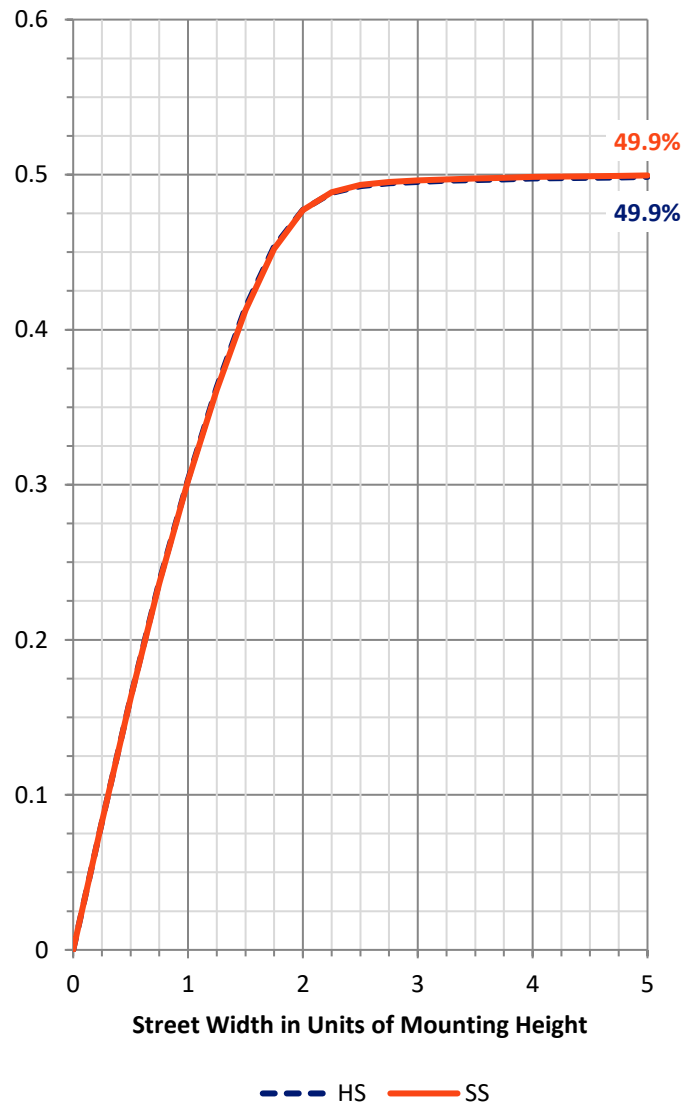
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6450.5	0.0	6450.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6450.5	0.0	6450.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12901.0	0.0	12901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.2
10°-20°	494.1	3.8
20°-30°	933.8	7.2
30°-40°	1546.4	12.0
40°-50°	2414.3	18.7
50°-60°	3732.4	28.9
60°-70°	3218.4	24.9
70°-80°	364.7	2.8
80°-90°	43.7	0.3
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°	12901.0	100.0
0°-180°	12901.0	100.0

Coefficient of Utilization



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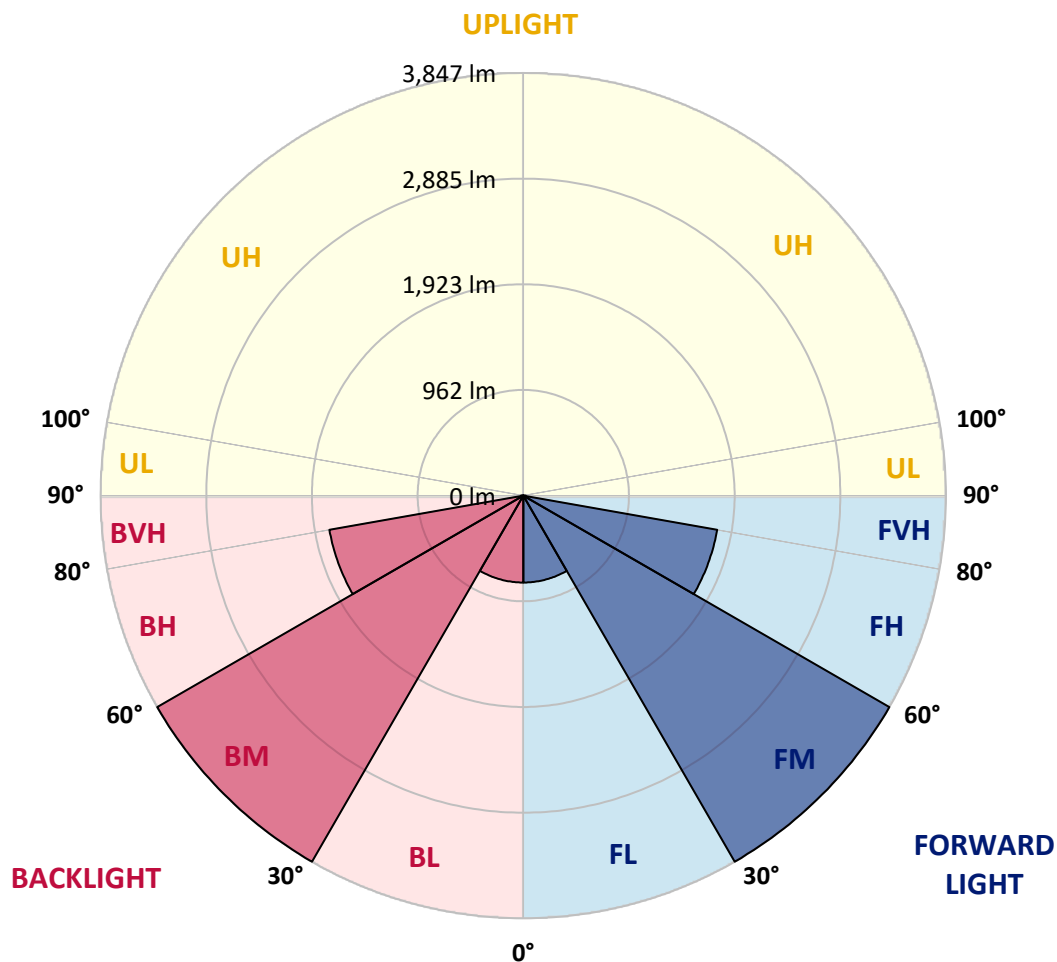
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.6	6.1			
FM	(30°-60°)	3846.5	29.8			
FH	(60°-80°)	1791.6	13.9			G1/1800
FVH	(80°-90°)	21.8	0.2			G1/100
BL	(0°-30°)	790.6	6.1	B2/1000		
BM	(30°-60°)	3846.5	29.8	B3/5000		
BH	(60°-80°)	1791.6	13.9	B3/2500		G1/1800
BVH	(80°-90°)	21.8	0.2			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°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3
2.5°	1565.5	1568.9	1566.1	1565.5	1564.8	1564.8	1564.8	1565.5	1568.2	1570.2	1568.9
5°	1585.3	1588.0	1586.6	1586.0	1585.3	1584.6	1583.9	1586.0	1586.0	1586.0	1585.3
7.5°	1609.9	1613.3	1611.9	1613.3	1614.0	1611.2	1608.5	1607.8	1609.9	1608.5	1608.5
10°	1643.3	1646.1	1646.8	1647.4	1648.8	1644.0	1639.2	1638.6	1637.9	1637.2	1637.2
12.5°	1680.9	1683.0	1683.7	1686.4	1688.4	1684.3	1680.2	1673.4	1674.8	1672.0	1672.0
15°	1723.3	1727.4	1726.7	1730.8	1736.3	1732.9	1726.0	1719.9	1716.5	1714.4	1714.4
17.5°	1775.2	1778.0	1776.6	1780.7	1787.5	1786.8	1778.0	1771.8	1764.3	1760.2	1760.2
20°	1836.7	1841.5	1842.9	1842.9	1849.0	1846.3	1843.6	1834.0	1828.5	1825.1	1825.1
22.5°	1906.4	1908.5	1912.6	1916.7	1922.8	1919.4	1915.3	1906.4	1901.6	1896.2	1896.2
25°	1985.0	1987.1	1997.3	2006.2	2008.2	2004.1	2002.1	1993.9	1983.0	1978.9	1978.9
27.5°	2076.6	2080.7	2094.3	2102.5	2102.5	2097.7	2104.6	2086.8	2073.8	2072.5	2072.5
30°	2191.4	2194.1	2205.7	2213.9	2209.8	2205.0	2211.9	2192.7	2169.5	2164.0	2164.0
32.5°	2304.8	2314.4	2324.6	2342.4	2328.0	2320.5	2325.3	2303.4	2277.5	2269.9	2269.9
35°	2426.4	2433.3	2452.4	2467.4	2454.4	2446.2	2461.3	2435.3	2400.5	2399.1	2399.1
37.5°	2561.0	2567.2	2591.8	2607.5	2597.9	2583.6	2601.3	2575.4	2532.3	2523.4	2523.4
40°	2701.1	2714.1	2744.8	2761.2	2745.5	2731.9	2751.0	2727.8	2677.9	2658.1	2658.1
42.5°	2858.3	2878.8	2923.2	2931.4	2901.3	2890.4	2921.1	2904.7	2847.3	2839.8	2839.8
45°	3042.1	3054.4	3109.0	3126.8	3085.1	3071.5	3127.5	3115.2	3048.9	3034.6	3034.6
47.5°	3247.8	3259.4	3316.1	3342.7	3290.1	3290.8	3363.9	3356.4	3285.3	3278.5	3278.5
50°	3491.0	3493.7	3572.3	3602.4	3549.8	3552.5	3643.4	3613.3	3522.4	3521.1	3521.1
52.5°	3757.5	3760.9	3860.0	3918.1	3888.7	3895.5	3950.9	3874.3	3755.4	3746.6	3746.6
55°	3988.5	4005.5	4140.8	4295.3	4335.6	4306.9	4280.9	4092.3	3925.6	3899.6	3899.6
57.5°	4082.7	4116.2	4321.9	4610.3	4872.7	4766.1	4518.7	4179.1	3943.4	3918.1	3918.1
60°	3852.5	3888.7	4207.8	4755.1	5424.8	5244.4	4559.0	3981.6	3650.2	3610.6	3610.6
62.5°	3085.1	3095.4	3564.8	4414.2	5746.6	5445.9	4215.3	3407.0	2956.7	2940.9	2940.9
64°	2220.1	2325.3	2822.7	3870.2	5605.8	6949.9	5329.8	3733.6	2767.4	2311.6	2237.8
65°	1660.4	1689.1	2275.4	3305.1	5357.8	6925.3	5104.3	3273.0	2291.8	1769.1	1687.1
67.5°	627.3	630.7	839.8	1647.4	3814.2	5958.4	3895.5	1780.7	965.5	698.3	673.1
70°	260.3	265.1	308.2	554.2	1639.2	3825.8	1878.4	642.3	353.3	286.3	282.2
72.5°	190.6	193.4	206.4	246.0	504.3	1570.9	617.7	272.6	207.0	185.2	183.1
75°	149.6	151.0	160.6	181.1	235.1	435.3	256.9	187.2	157.8	142.1	140.8
77.5°	114.1	117.5	124.4	138.0	157.8	206.4	170.1	140.1	121.6	108.6	106.6
80°	78.6	82.7	95.7	101.1	105.9	133.9	116.2	105.9	95.0	79.3	74.5
82.5°	48.5	51.2	64.2	69.0	67.0	75.2	74.5	75.8	67.6	49.2	45.8
85°	25.3	26.6	34.8	36.2	33.5	30.7	38.3	44.4	41.7	28.0	27.3
87.5°	5.5	6.1	7.5	6.8	7.5	7.5	9.6	14.3	15.0	9.6	8.9
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)