

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: P453149

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453149
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-SA4A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15003 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): 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

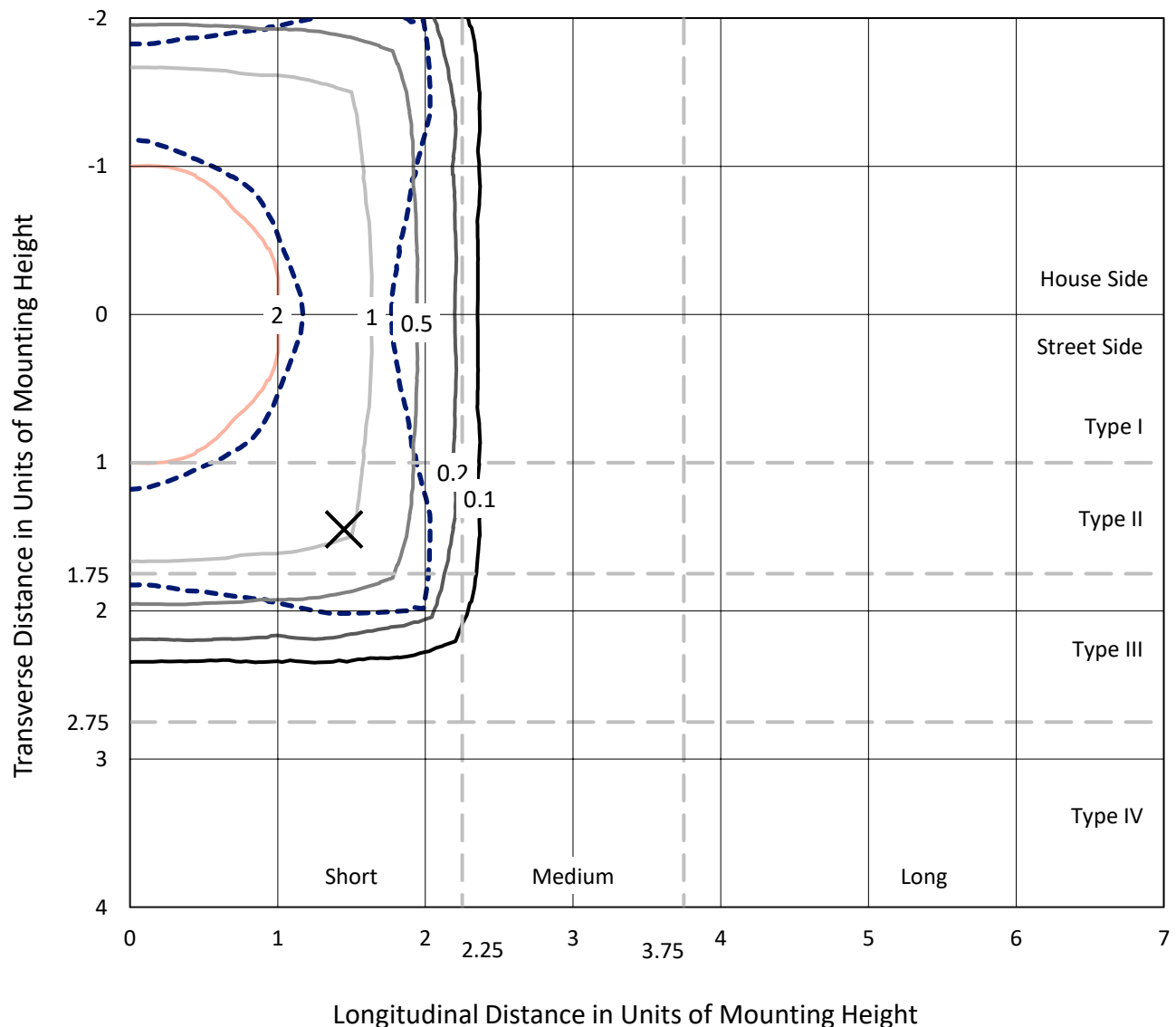


REPORT NUMBER: P453149

CATALOG NUMBER: GALN-SA4A-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

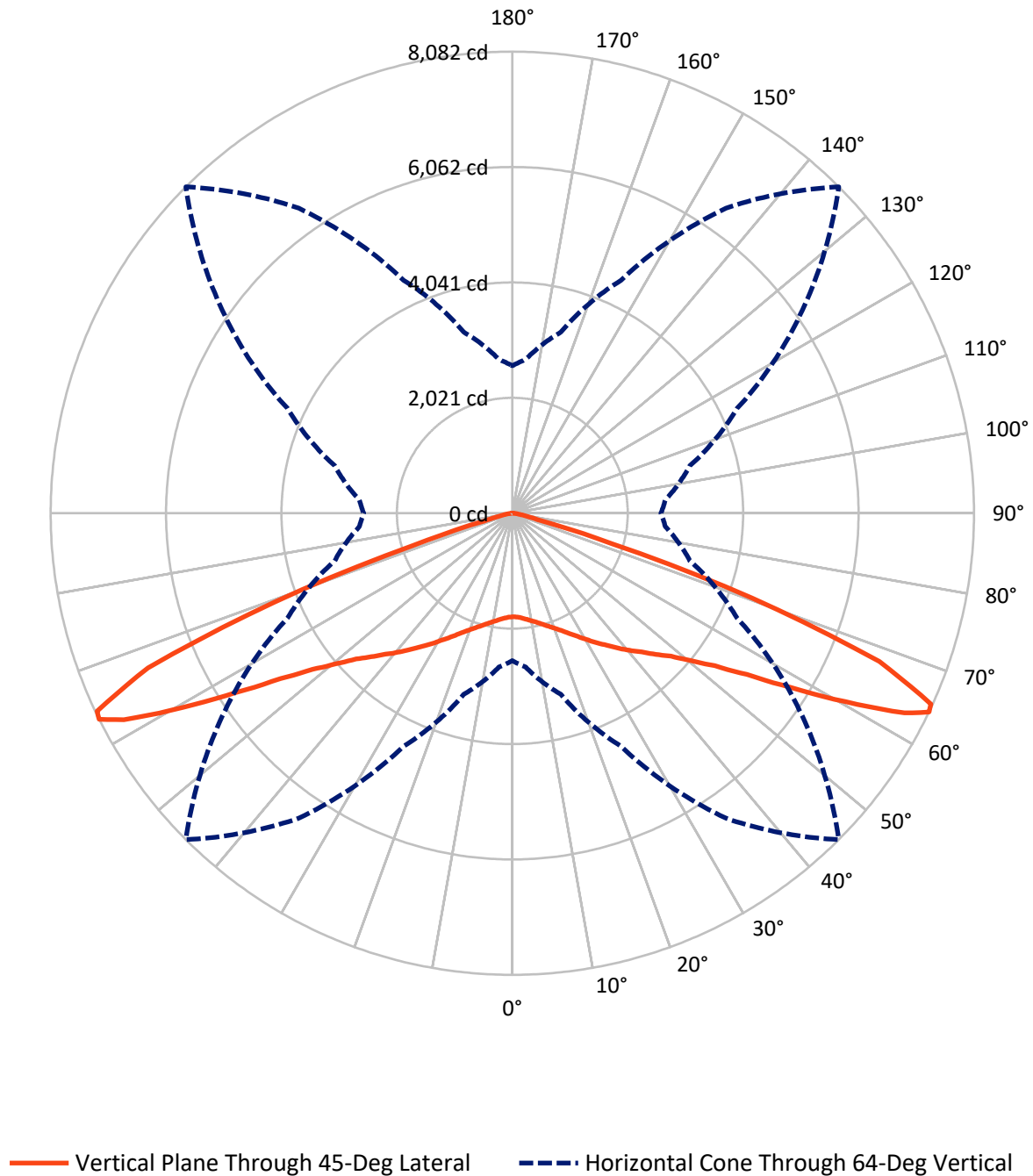


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P453149

CATALOG NUMBER: GALN-SA4A-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P453149

CATALOG NUMBER: GALN-SA4A-830-U-5NQ

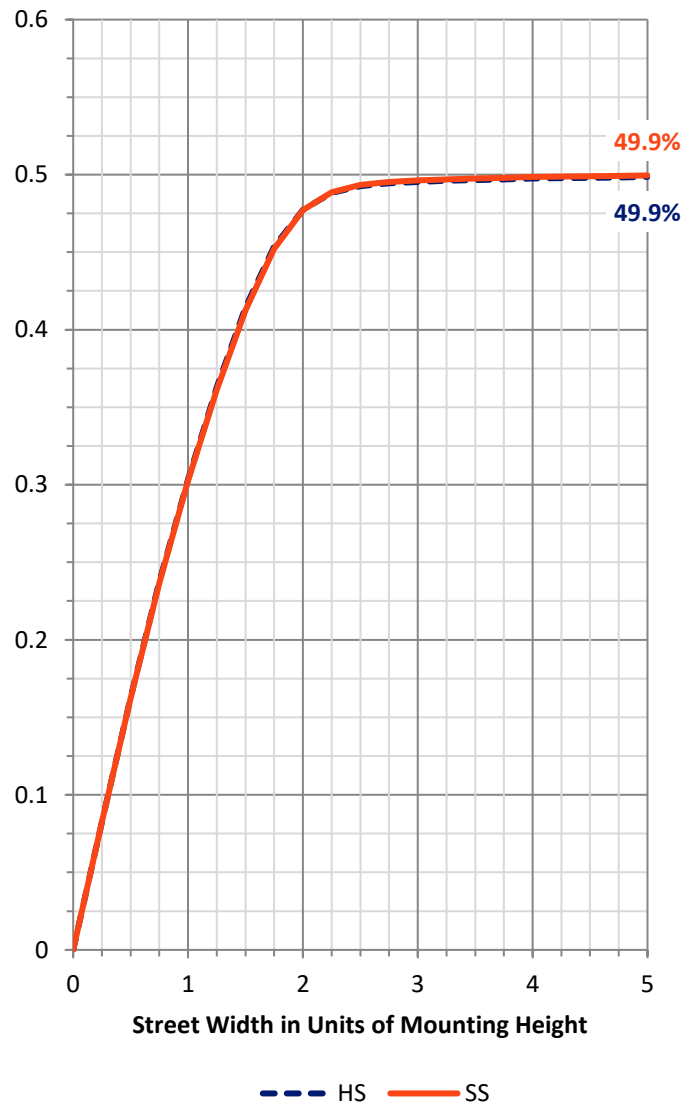
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7501.5	0.0	7501.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7501.5	0.0	7501.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15003.0	0.0	15003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	1.2
10°-20°	574.6	3.8
20°-30°	1085.9	7.2
30°-40°	1798.4	12.0
40°-50°	2807.6	18.7
50°-60°	4340.5	28.9
60°-70°	3742.8	24.9
70°-80°	424.2	2.8
80°-90°	50.8	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°	15003.0	100.0
0°-180°	15003.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453149

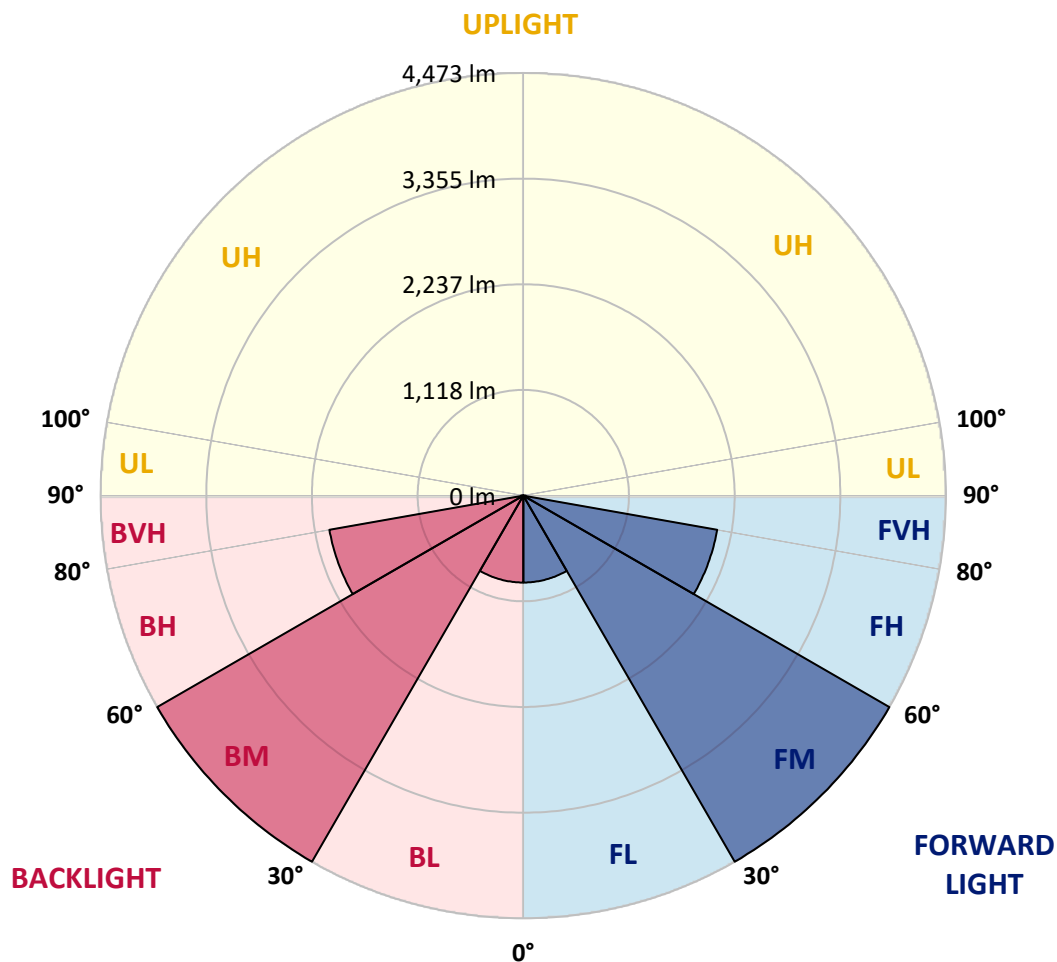
CATALOG NUMBER: GALN-SA4A-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	919.4	6.1			
FM	(30°-60°)	4473.3	29.8			
FH	(60°-80°)	2083.5	13.9			G2/5000
FVH	(80°-90°)	25.4	0.2			G1/100
BL	(0°-30°)	919.4	6.1	B2/1000		
BM	(30°-60°)	4473.3	29.8	B3/5000		
BH	(60°-80°)	2083.5	13.9	B3/2500		G2/5000
BVH	(80°-90°)	25.4	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-G2

Type V Short





REPORT NUMBER: P453149

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4
2.5°	1820.5	1824.5	1821.3	1820.5	1819.7	1819.7	1819.7	1820.5	1823.7	1826.1	1824.5
5°	1843.6	1846.7	1845.2	1844.4	1843.6	1844.4	1842.8	1842.0	1844.4	1844.4	1843.6
7.5°	1872.2	1876.1	1874.6	1876.1	1876.9	1877.7	1873.8	1870.6	1869.8	1872.2	1870.6
10°	1911.1	1914.3	1915.1	1915.9	1917.5	1916.7	1911.9	1906.3	1905.5	1904.7	1904.0
12.5°	1954.8	1957.2	1958.0	1961.2	1963.6	1964.3	1958.8	1954.0	1946.1	1947.7	1944.5
15°	2004.1	2008.8	2008.1	2012.8	2019.2	2020.8	2015.2	2007.3	2000.1	1996.1	1993.7
17.5°	2064.5	2067.6	2066.1	2070.8	2078.8	2082.7	2078.0	2067.6	2060.5	2051.8	2047.0
20°	2136.0	2141.6	2143.1	2143.1	2150.3	2154.3	2147.1	2143.9	2132.8	2126.5	2122.5
22.5°	2217.0	2219.4	2224.2	2229.0	2236.1	2234.5	2232.1	2227.4	2217.0	2211.5	2205.1
25°	2308.4	2310.8	2322.7	2333.1	2335.4	2333.9	2330.7	2328.3	2318.8	2306.0	2301.3
27.5°	2414.9	2419.7	2435.6	2445.1	2445.1	2445.9	2439.5	2447.5	2426.8	2411.7	2410.1
30°	2548.4	2551.6	2565.1	2574.6	2569.9	2565.9	2564.3	2572.2	2550.0	2523.0	2516.6
32.5°	2680.3	2691.4	2703.4	2724.0	2707.3	2700.2	2698.6	2704.2	2678.7	2648.5	2639.8
35°	2821.8	2829.7	2852.0	2869.4	2854.3	2837.7	2844.8	2862.3	2832.1	2791.6	2790.0
37.5°	2978.3	2985.5	3014.1	3032.3	3021.2	2992.6	3004.5	3025.2	2995.0	2944.9	2934.6
40°	3141.2	3156.3	3192.1	3211.1	3192.9	3154.7	3177.0	3199.2	3172.2	3114.2	3091.1
42.5°	3324.0	3347.8	3399.5	3409.0	3374.0	3322.4	3361.3	3397.1	3378.0	3311.3	3302.5
45°	3537.7	3552.0	3615.6	3636.3	3587.8	3523.4	3571.9	3637.1	3622.8	3545.7	3529.0
47.5°	3776.9	3790.4	3856.4	3887.4	3826.2	3739.6	3827.0	3912.0	3903.3	3820.6	3812.7
50°	4059.8	4063.0	4154.4	4189.3	4128.1	4053.5	4131.3	4237.0	4202.0	4096.4	4094.8
52.5°	4369.7	4373.7	4488.9	4556.5	4522.3	4438.1	4530.2	4594.6	4505.6	4367.3	4357.0
55°	4638.3	4658.2	4815.5	4995.1	5042.0	4980.8	5008.6	4978.4	4759.1	4565.2	4535.0
57.5°	4748.0	4786.9	5026.1	5361.4	5666.6	5757.2	5542.6	5254.9	4860.0	4585.9	4556.5
60°	4480.2	4522.3	4893.4	5529.9	6308.6	6702.0	6098.8	5301.8	4630.4	4245.0	4198.9
62.5°	3587.8	3599.7	4145.6	5133.4	6682.9	7701.6	6333.3	4902.1	3962.1	3438.4	3420.1
64°	2581.8	2704.2	3282.7	4500.8	6519.2	8082.3	6198.2	4341.9	3218.3	2688.3	2602.4
65°	1931.0	1964.3	2646.1	3843.7	6230.8	8053.7	5935.9	3806.3	2665.2	2057.3	1962.0
67.5°	729.5	733.5	976.6	1915.9	4435.7	6929.2	4530.2	2070.8	1122.8	812.1	782.7
70°	302.8	308.3	358.4	644.5	1906.3	4449.2	2184.5	747.0	410.8	333.0	328.2
72.5°	221.7	224.9	240.0	286.1	586.4	1826.9	718.4	317.1	240.8	215.3	213.0
75°	174.0	175.6	186.7	210.6	273.4	506.2	298.8	217.7	183.6	165.3	163.7
77.5°	132.7	136.7	144.6	160.5	183.6	240.0	197.9	162.9	141.4	126.3	124.0
80°	91.4	96.2	111.2	117.6	123.2	155.7	135.1	123.2	110.5	92.2	86.6
82.5°	56.4	59.6	74.7	80.3	77.9	87.4	86.6	88.2	78.7	57.2	53.2
85°	29.4	31.0	40.5	42.1	38.9	35.8	44.5	51.7	48.5	32.6	31.8
87.5°	6.4	7.2	8.7	7.9	8.7	8.7	11.1	16.7	17.5	11.1	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)