

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: P454076

Luminaire Tested: **GALN-SA5A-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454076
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-SA5A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19087 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 154
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

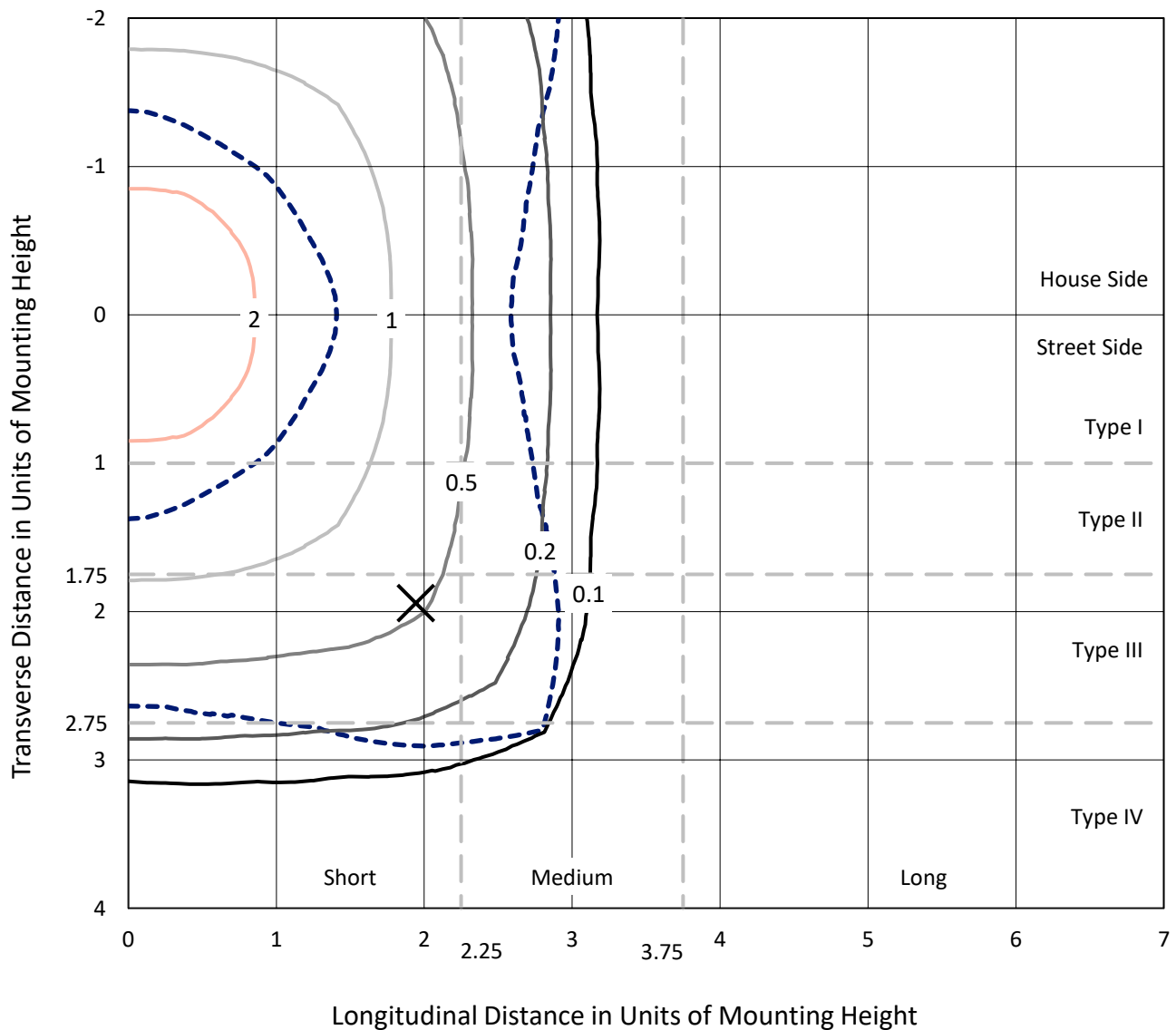


REPORT NUMBER: P454076

CATALOG NUMBER: GALN-SA5A-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

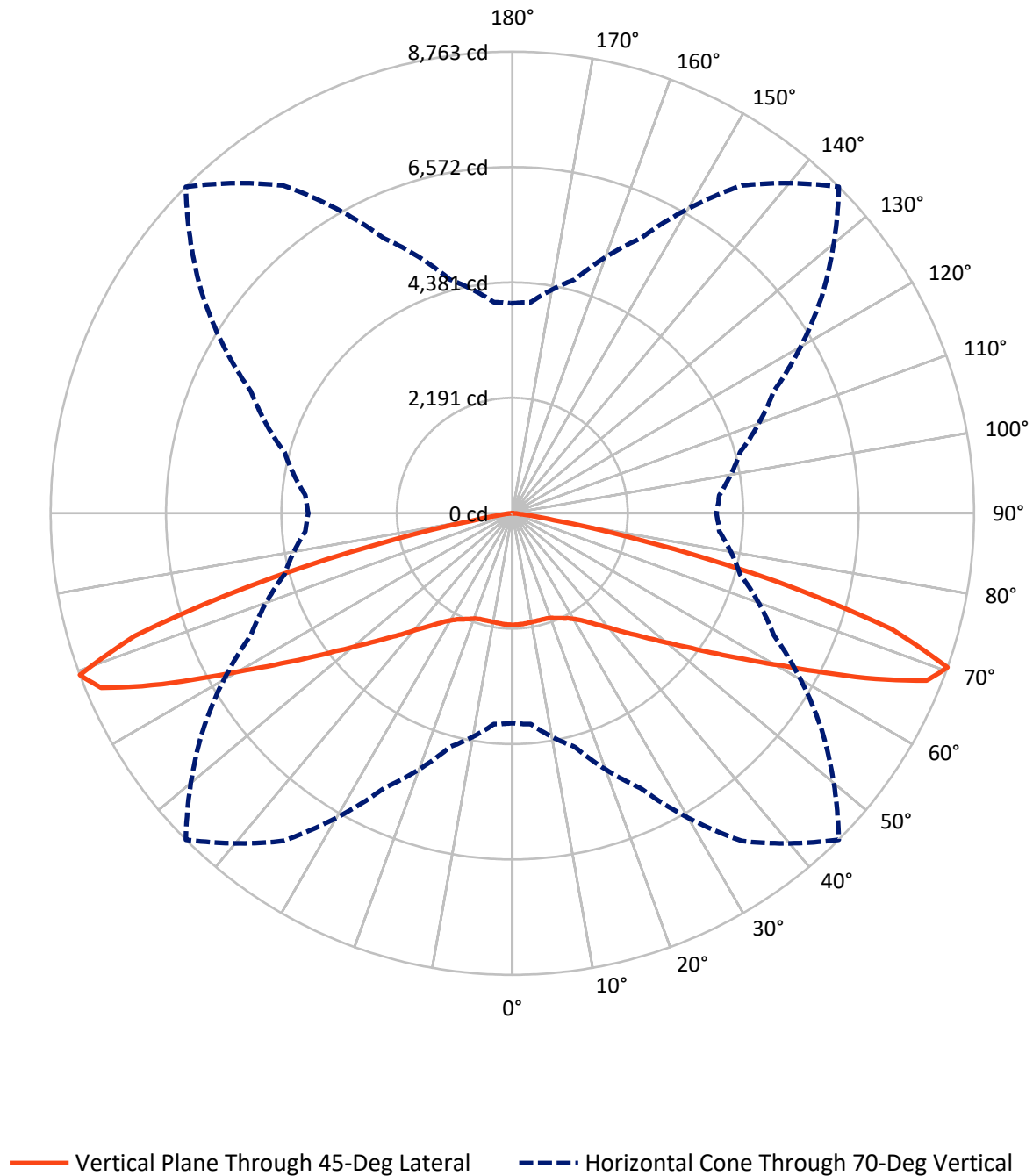


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - N/A

REPORT NUMBER: P454076

CATALOG NUMBER: GALN-SA5A-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P454076

CATALOG NUMBER: GALN-SA5A-830-U-5MQ

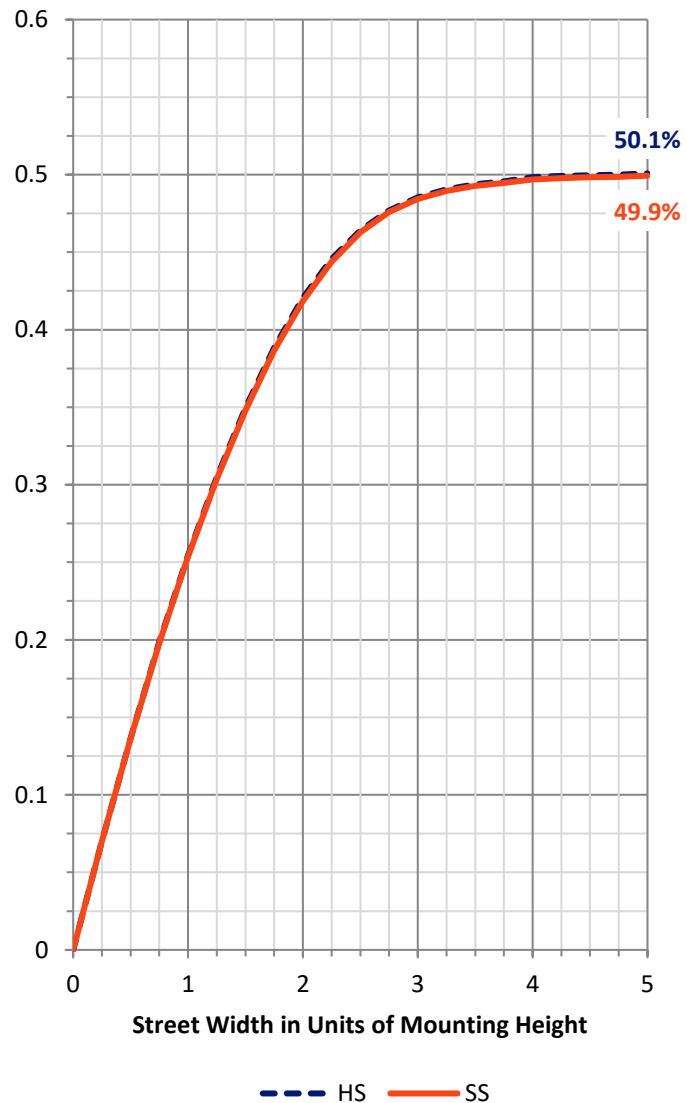
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9543.5	0.0	9543.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9543.5	0.0	9543.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19087.0	0.0	19087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	1.1
10°-20°	589.8	3.1
20°-30°	1008.7	5.3
30°-40°	1601.1	8.4
40°-50°	2583.0	13.5
50°-60°	4202.5	22.0
60°-70°	6092.1	31.9
70°-80°	2702.3	14.2
80°-90°	106.6	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°	19087.0	100.0
0°-180°	19087.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454076

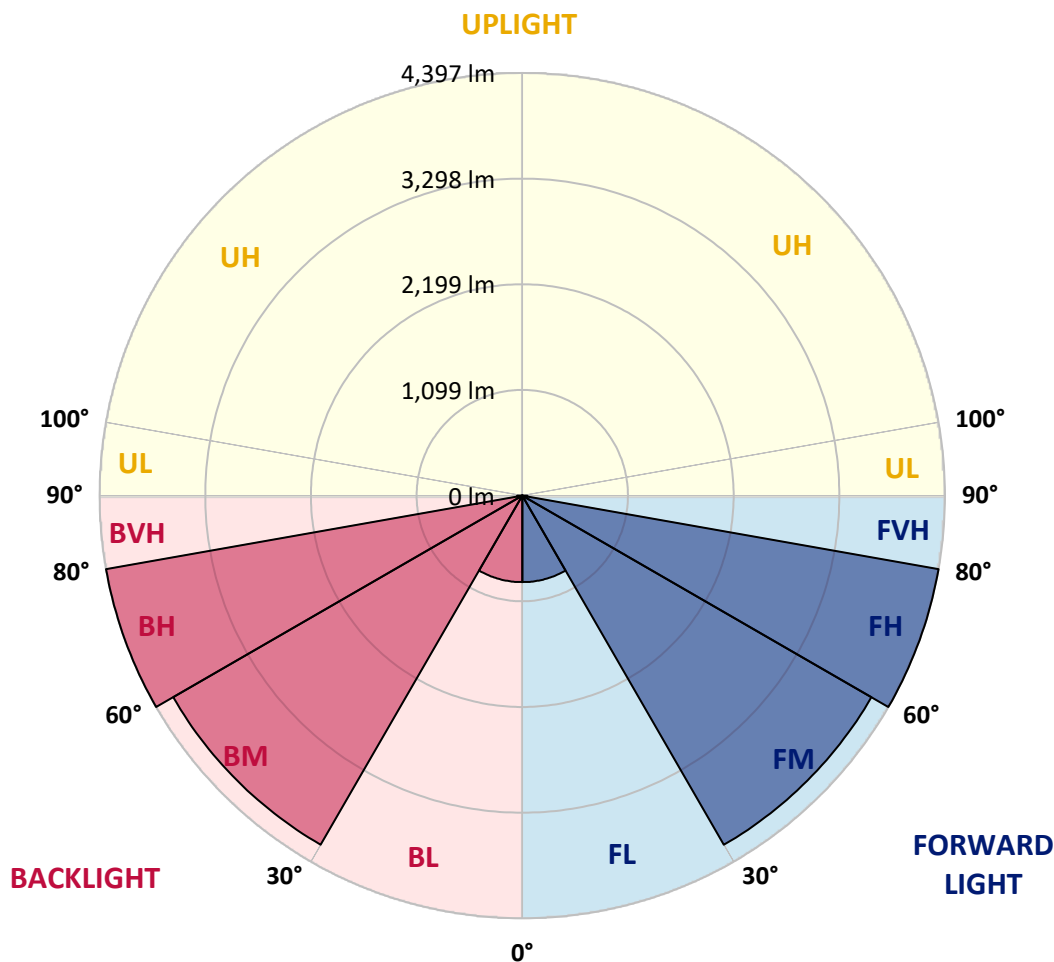
CATALOG NUMBER: GALN-SA5A-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	899.8	4.7			
FM	(30°-60°)	4193.3	22.0			
FH	(60°-80°)	4397.2	23.0			G2/5000
FVH	(80°-90°)	53.3	0.3			G1/100
BL	(0°-30°)	899.8	4.7	B2/1000		
BM	(30°-60°)	4193.3	22.0	B3/5000		
BH	(60°-80°)	4397.2	23.0	B4/5000		G2/5000
BVH	(80°-90°)	53.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P454076

CATALOG NUMBER: GALN-SA5A-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2119.5	2119.5	2119.5	2119.5	2119.5	2119.5	2119.5	2119.5	2119.5	2119.5	2119.5
2.5°	2119.5	2121.5	2118.5	2116.5	2115.5	2115.5	2114.5	2115.5	2121.5	2122.5	2119.5
5°	2113.5	2115.5	2114.5	2112.5	2111.5	2111.5	2110.5	2109.5	2114.5	2116.5	2115.5
7.5°	2105.4	2106.4	2105.4	2104.4	2105.4	2104.4	2101.4	2099.4	2103.4	2103.4	2102.4
10°	2091.4	2093.4	2092.4	2093.4	2095.4	2095.4	2091.4	2087.3	2088.3	2086.3	2086.3
12.5°	2074.3	2077.3	2078.3	2082.3	2087.3	2093.4	2084.3	2075.3	2073.2	2072.2	2071.2
15°	2063.2	2066.2	2070.2	2074.3	2083.3	2096.4	2083.3	2069.2	2065.2	2061.2	2059.2
17.5°	2060.2	2064.2	2070.2	2076.3	2088.3	2101.4	2090.3	2076.3	2066.2	2060.2	2058.2
20°	2068.2	2071.2	2080.3	2091.4	2108.5	2121.5	2110.5	2095.4	2080.3	2071.2	2068.2
22.5°	2084.3	2089.3	2100.4	2120.5	2144.7	2163.8	2148.7	2123.5	2099.4	2087.3	2083.3
25°	2119.5	2123.5	2136.6	2163.8	2191.9	2210.1	2194.0	2164.8	2131.6	2115.5	2110.5
27.5°	2172.8	2178.9	2193.0	2225.1	2248.3	2258.3	2247.3	2227.2	2203.0	2185.9	2181.9
30°	2248.3	2255.3	2276.4	2310.7	2325.7	2331.8	2326.7	2313.7	2296.6	2278.5	2274.4
32.5°	2349.9	2353.9	2378.0	2410.2	2424.3	2426.3	2420.3	2414.3	2386.1	2355.9	2353.9
35°	2463.6	2470.6	2499.8	2538.0	2551.1	2552.1	2540.0	2531.0	2497.8	2473.6	2473.6
37.5°	2614.4	2617.5	2645.6	2688.9	2703.0	2698.9	2692.9	2684.9	2649.7	2618.5	2619.5
40°	2791.5	2797.5	2821.7	2872.0	2872.0	2866.9	2871.0	2864.9	2829.7	2799.5	2800.5
42.5°	3001.7	3004.8	3033.9	3087.2	3083.2	3073.2	3077.2	3069.1	3047.0	3012.8	3000.7
45°	3226.1	3238.1	3288.4	3339.7	3331.7	3299.5	3315.6	3313.6	3293.5	3242.2	3245.2
47.5°	3496.7	3516.8	3565.1	3626.4	3617.4	3567.1	3585.2	3597.3	3569.1	3512.8	3502.7
50°	3801.5	3814.5	3886.0	3943.3	3935.2	3881.9	3923.2	3925.2	3854.8	3775.3	3775.3
52.5°	4126.4	4139.5	4236.0	4325.6	4330.6	4253.1	4286.3	4284.3	4169.6	4065.0	4044.9
55°	4490.5	4496.6	4621.3	4753.1	4781.2	4705.8	4709.8	4669.6	4520.7	4399.0	4387.9
57.5°	4866.8	4888.9	5026.7	5197.7	5281.2	5234.9	5213.8	5106.2	4962.3	4822.5	4815.4
60°	5283.2	5284.2	5463.3	5665.5	5834.5	5865.7	5779.1	5635.3	5449.2	5264.1	5256.1
62.5°	5571.9	5615.2	5841.5	6183.5	6486.3	6661.4	6433.0	6131.2	5765.1	5466.3	5436.1
65°	5631.3	5660.4	6005.5	6584.9	7203.6	7580.8	7052.7	6410.9	5786.2	5387.8	5367.7
67.5°	5151.4	5182.6	5647.4	6536.6	7706.5	8480.1	7455.0	6276.1	5428.1	4935.2	4895.9
70°	3984.5	4019.7	4594.1	5754.0	7594.9	8762.8	7168.3	5474.3	4476.4	3944.3	3872.9
72.5°	2118.5	2248.3	2739.2	3949.3	6164.4	7544.6	5877.7	3994.6	2887.1	2359.9	2265.4
75°	773.6	789.7	1063.3	1751.3	3586.2	5173.6	3724.0	1905.3	1095.5	846.0	802.7
77.5°	319.9	318.9	350.1	529.1	1302.7	2649.7	1453.6	559.3	349.1	322.9	318.9
80°	189.1	189.1	208.2	220.3	343.0	799.7	383.3	249.5	209.2	191.1	194.1
82.5°	84.5	89.5	131.8	138.8	166.0	219.3	185.1	158.9	136.8	94.6	85.5
85°	46.3	40.2	69.4	72.4	79.5	81.5	87.5	86.5	79.5	46.3	47.3
87.5°	9.1	11.1	20.1	15.1	17.1	15.1	20.1	28.2	29.2	16.1	13.1
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)