

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: P528880

Luminaire Tested: **GALN-SA4A-730-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14436 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

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



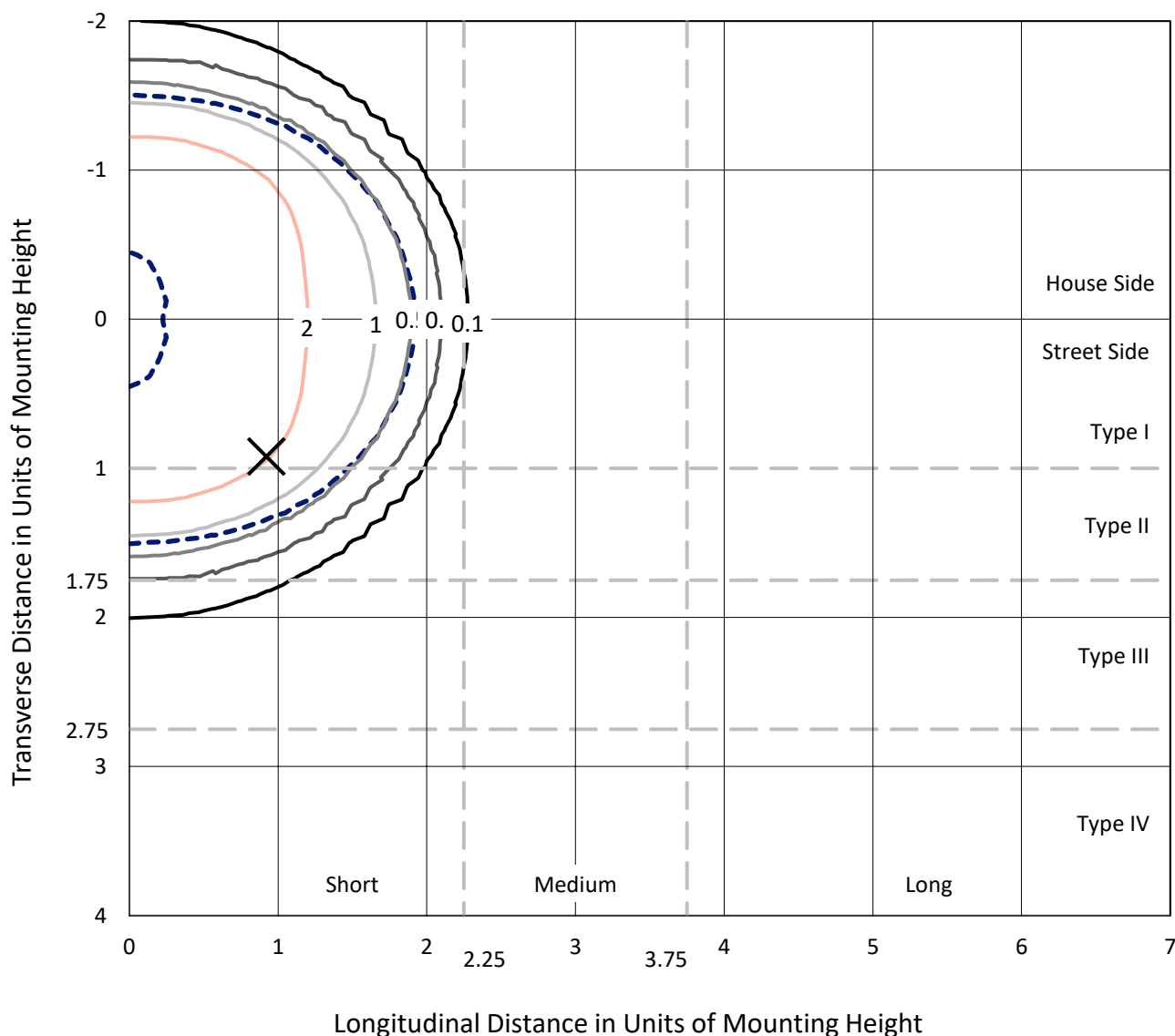
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

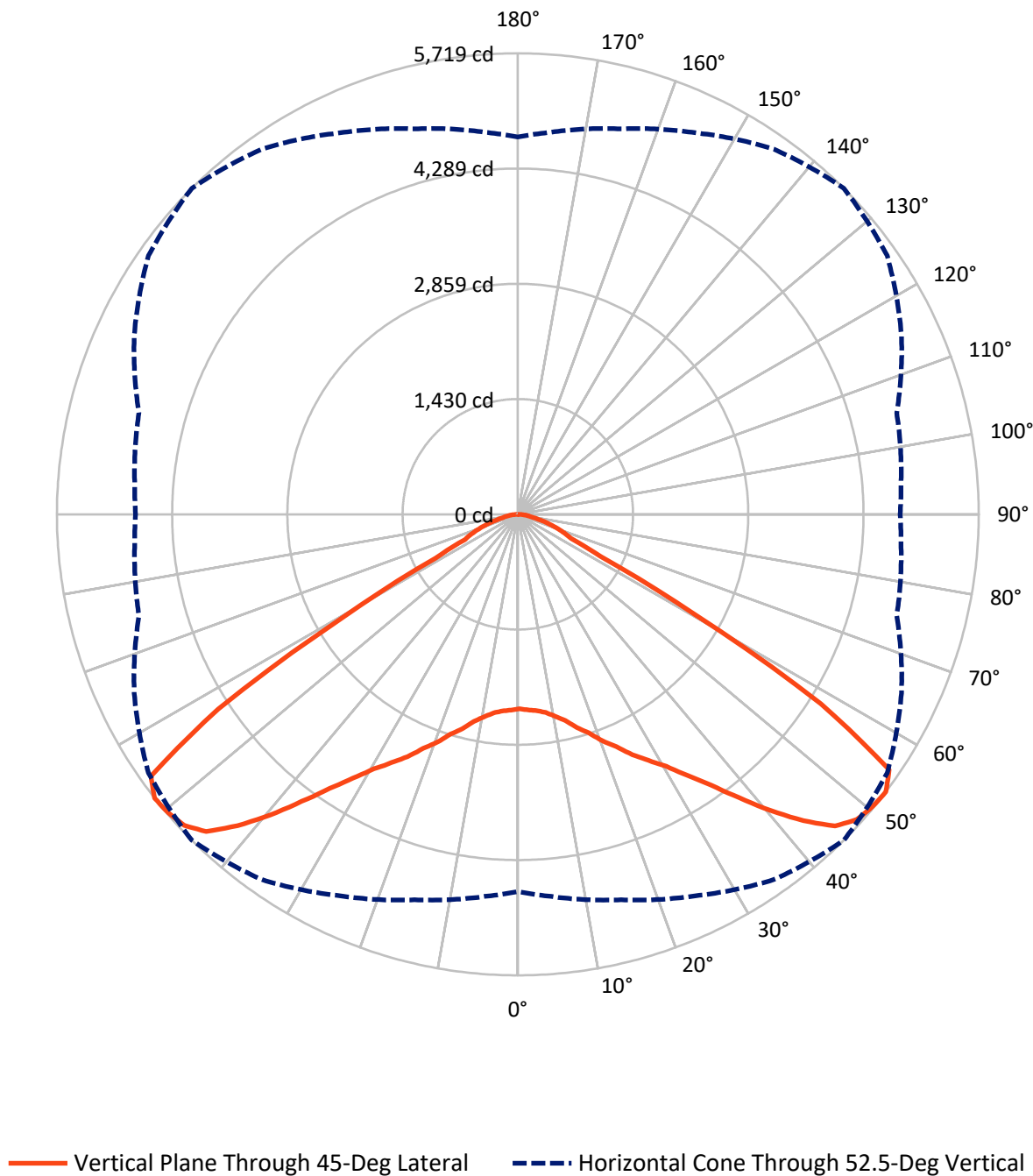


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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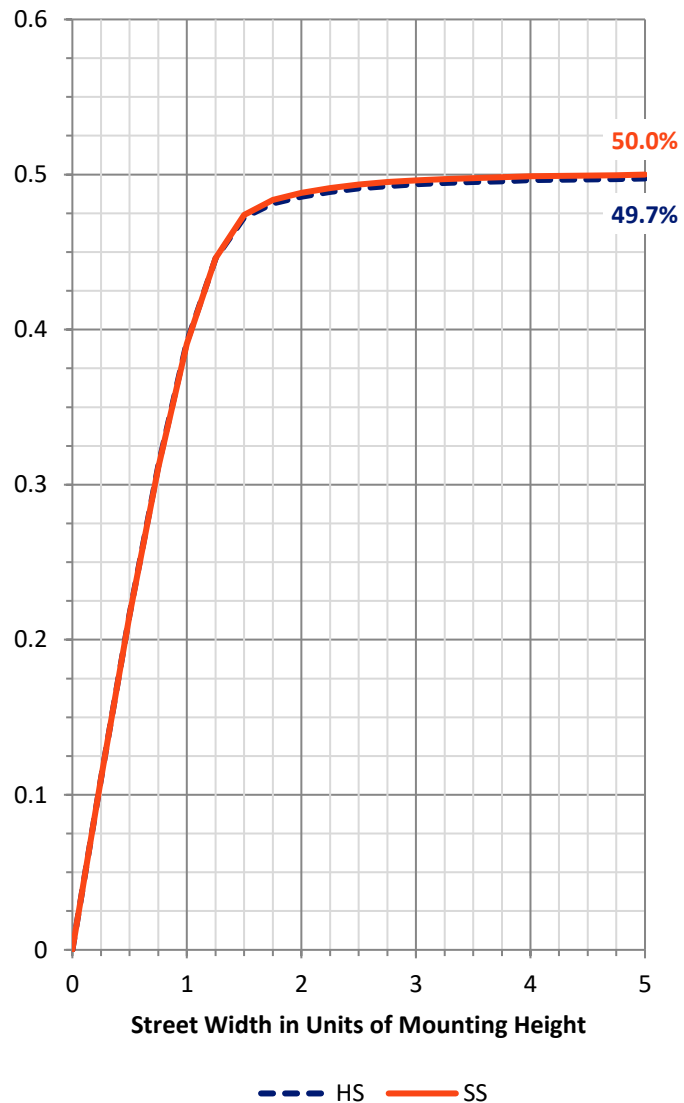
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7218.0	0.0	7218.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7218.0	0.0	7218.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14436.0	0.0	14436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.1	1.6
10°-20°	779.1	5.4
20°-30°	1483.2	10.3
30°-40°	2546.8	17.6
40°-50°	3914.4	27.1
50°-60°	3975.0	27.5
60°-70°	1107.8	7.7
70°-80°	326.8	2.3
80°-90°	65.8	0.5
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°	14436.0	100.0
0°-180°	14436.0	100.0

Coefficient of Utilization



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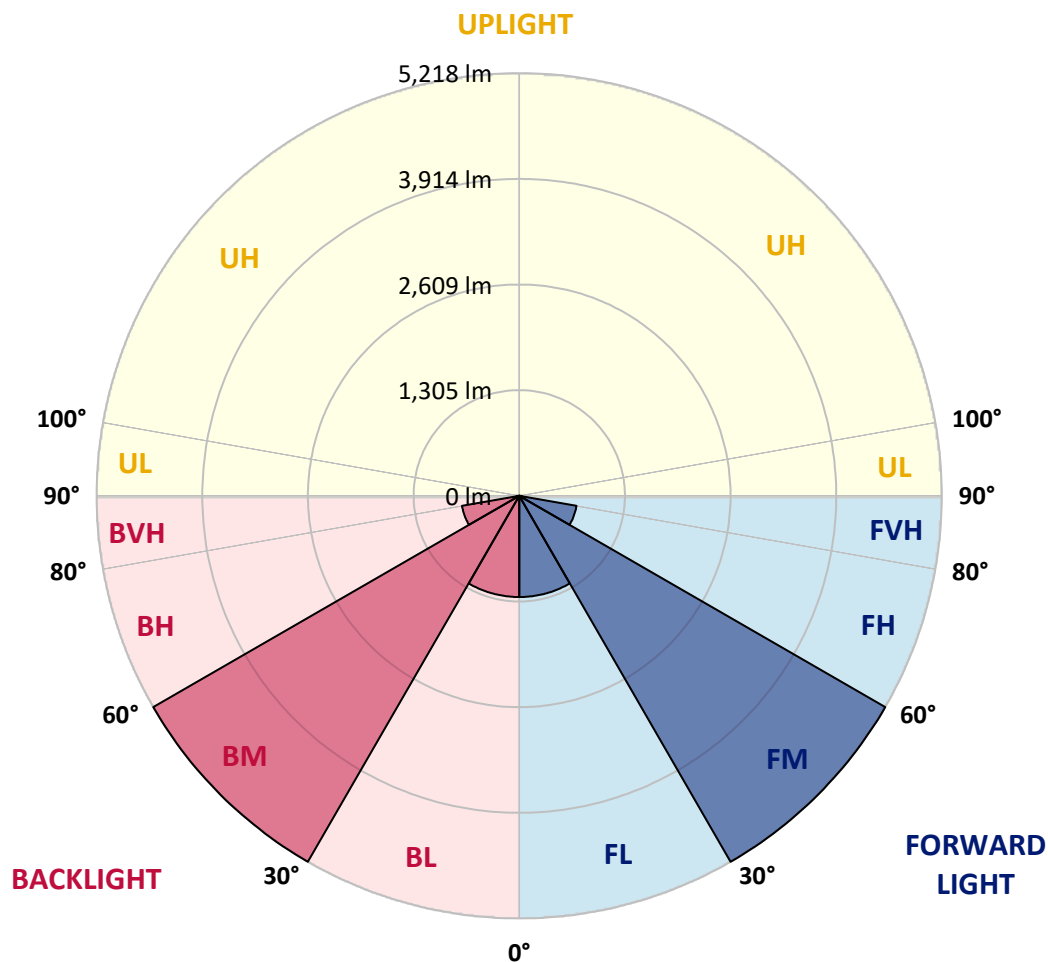
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1249.7	8.7			
FM	(30°-60°)	5218.1	36.1			
FH	(60°-80°)	717.3	5.0			G1/1800
FVH	(80°-90°)	32.9	0.2			G1/100
BL	(0°-30°)	1249.7	8.7	B3/2500		
BM	(30°-60°)	5218.1	36.1	B4/8500		
BH	(60°-80°)	717.3	5.0	B2/1000		G1/1800
BVH	(80°-90°)	32.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2
2.5°	2418.5	2393.5	2402.4	2407.8	2431.1	2429.3	2423.9	2431.1	2438.2	2440.0	2436.5
5°	2416.8	2398.8	2406.0	2411.4	2434.7	2447.2	2443.6	2474.1	2495.6	2490.2	2517.1
7.5°	2402.4	2413.2	2404.2	2431.1	2450.8	2481.2	2513.5	2542.2	2569.0	2599.5	2604.9
10°	2434.7	2434.7	2450.8	2472.3	2524.2	2547.5	2594.1	2635.3	2687.3	2723.1	2708.8
12.5°	2468.7	2474.1	2474.1	2529.6	2572.6	2624.6	2667.6	2723.1	2796.6	2839.5	2861.0
15°	2502.7	2506.3	2524.2	2599.5	2664.0	2746.4	2785.8	2836.0	2877.2	2957.8	2959.6
17.5°	2533.2	2552.9	2606.7	2690.9	2771.5	2850.3	2913.0	2965.0	3000.8	3033.0	3025.9
20°	2647.9	2662.2	2717.7	2801.9	2922.0	2999.0	3020.5	3029.4	3052.7	3117.2	3097.5
22.5°	2758.9	2764.3	2816.3	2945.2	3029.4	3131.6	3154.9	3149.5	3158.4	3174.6	3203.2
25°	2873.6	2882.5	2954.2	3063.5	3181.7	3303.5	3323.3	3282.1	3269.5	3287.4	3289.2
27.5°	3020.5	3022.3	3113.6	3208.6	3343.0	3457.6	3488.1	3455.8	3396.7	3411.0	3434.3
30°	3206.8	3194.3	3285.6	3421.8	3563.3	3627.8	3679.8	3663.6	3599.1	3586.6	3566.9
32.5°	3421.8	3425.4	3507.8	3656.5	3749.6	3857.1	3912.7	3885.8	3844.6	3823.1	3835.6
35°	3724.6	3740.7	3796.2	3919.8	4070.3	4124.1	4211.8	4154.5	4047.0	4073.9	4097.2
37.5°	3973.6	4020.2	4124.1	4271.0	4360.5	4459.1	4491.3	4414.3	4335.5	4303.2	4380.2
40°	4355.2	4340.8	4455.5	4602.4	4735.0	4833.5	4792.3	4715.3	4520.0	4521.8	4543.3
42.5°	4683.0	4690.2	4778.0	4953.5	5134.5	5195.4	5064.6	4876.5	4659.7	4636.4	4683.0
45°	4958.9	4987.6	5037.7	5272.4	5449.8	5516.1	5274.2	5052.1	4761.8	4665.1	4742.1
47.5°	5057.4	5104.0	5213.3	5428.3	5603.9	5657.6	5464.1	5145.2	4856.8	4699.1	4740.3
50°	5071.8	5055.6	5234.8	5431.9	5585.9	5702.4	5532.2	5213.3	4833.5	4751.1	4738.6
52.5°	4679.4	4758.3	4949.9	5220.5	5532.2	5718.5	5593.1	5250.9	4865.7	4772.6	4742.1
55°	3787.3	3694.1	4043.4	4498.5	5071.8	5589.5	5571.6	5270.6	4885.5	4808.4	4767.2
57.5°	2114.0	2140.9	2337.9	2832.4	3572.3	4432.2	4953.5	5062.8	4876.5	4831.7	4853.2
60°	978.2	987.1	1071.3	1302.4	1761.1	2513.5	3199.6	3896.5	4217.2	4281.7	4281.7
62.5°	729.1	725.6	747.1	788.3	885.0	1155.5	1542.5	2096.1	2536.8	2844.9	2925.5
65°	659.3	657.5	668.2	682.6	689.7	727.4	813.3	983.5	1126.9	1209.3	1194.9
67.5°	576.9	575.1	578.7	587.6	600.2	619.9	641.4	677.2	727.4	723.8	714.8
70°	465.8	465.8	471.2	478.3	492.7	516.0	541.0	566.1	609.1	618.1	616.3
72.5°	344.0	338.6	349.3	363.7	378.0	406.7	433.5	456.8	487.3	496.2	492.7
75°	218.6	222.1	229.3	245.4	270.5	290.2	318.9	338.6	358.3	365.5	367.3
77.5°	121.8	125.4	137.9	157.7	182.7	204.2	229.3	245.4	258.0	259.8	261.6
80°	73.5	75.2	87.8	105.7	127.2	150.5	170.2	186.3	197.1	191.7	189.9
82.5°	44.8	46.6	57.3	73.5	91.4	109.3	130.8	145.1	155.9	148.7	141.5
85°	23.3	25.1	34.0	44.8	59.1	68.1	68.1	60.9	59.1	55.5	53.7
87.5°	7.2	7.2	9.0	10.7	9.0	10.7	12.5	14.3	14.3	16.1	14.3
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)