

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: P454774

Luminaire Tested: **GALN-SA5D-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32220 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 309
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

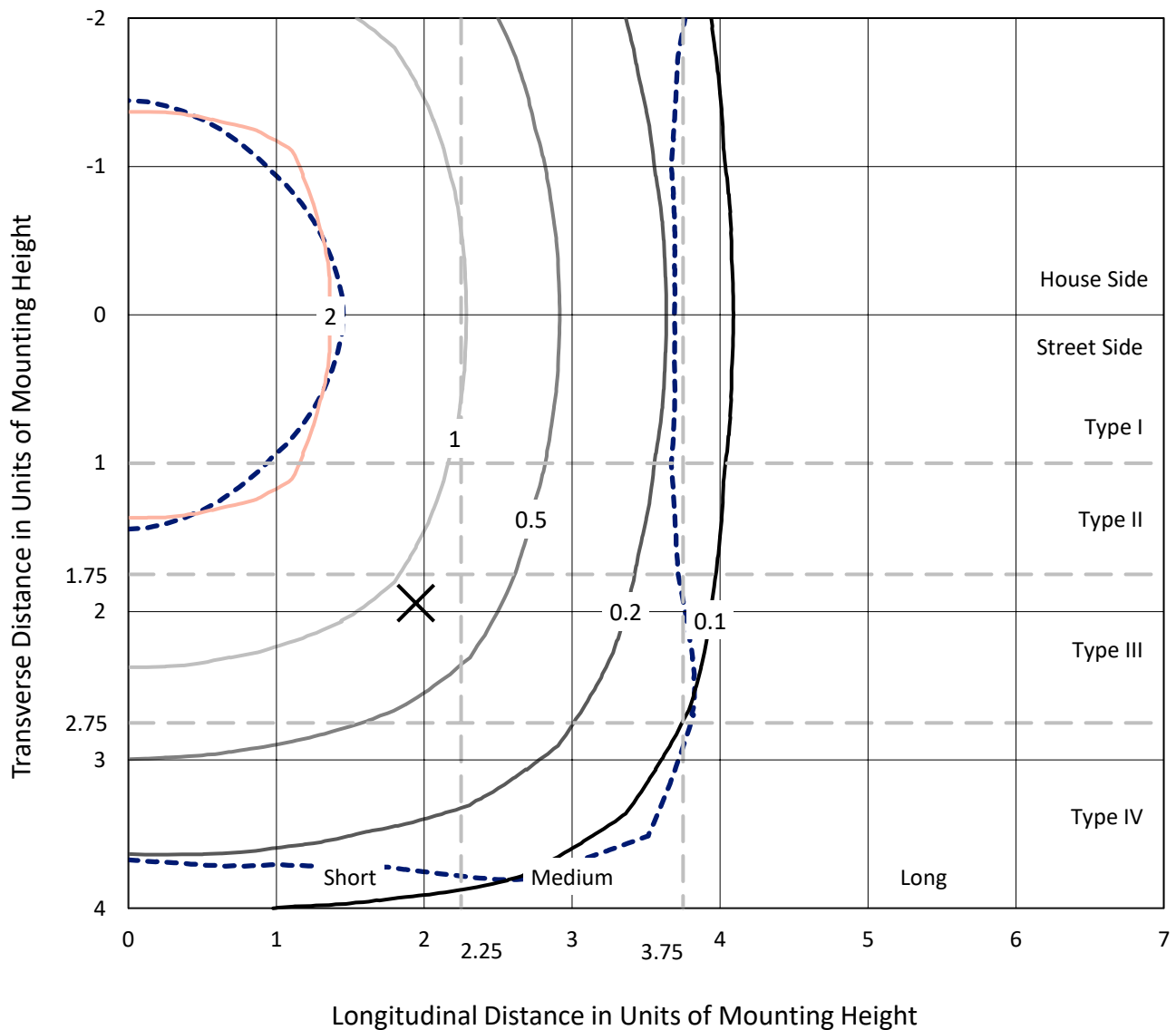


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

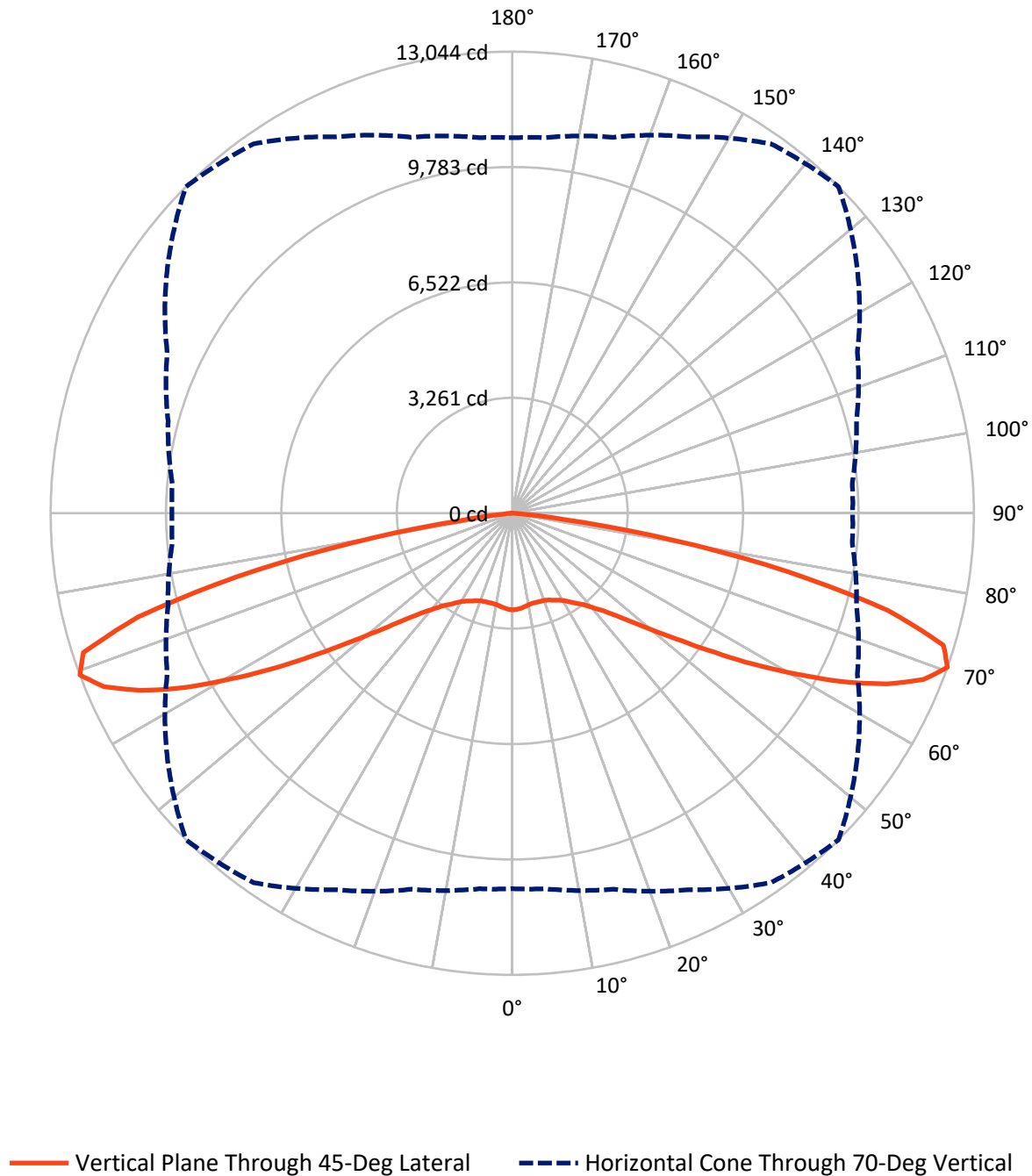


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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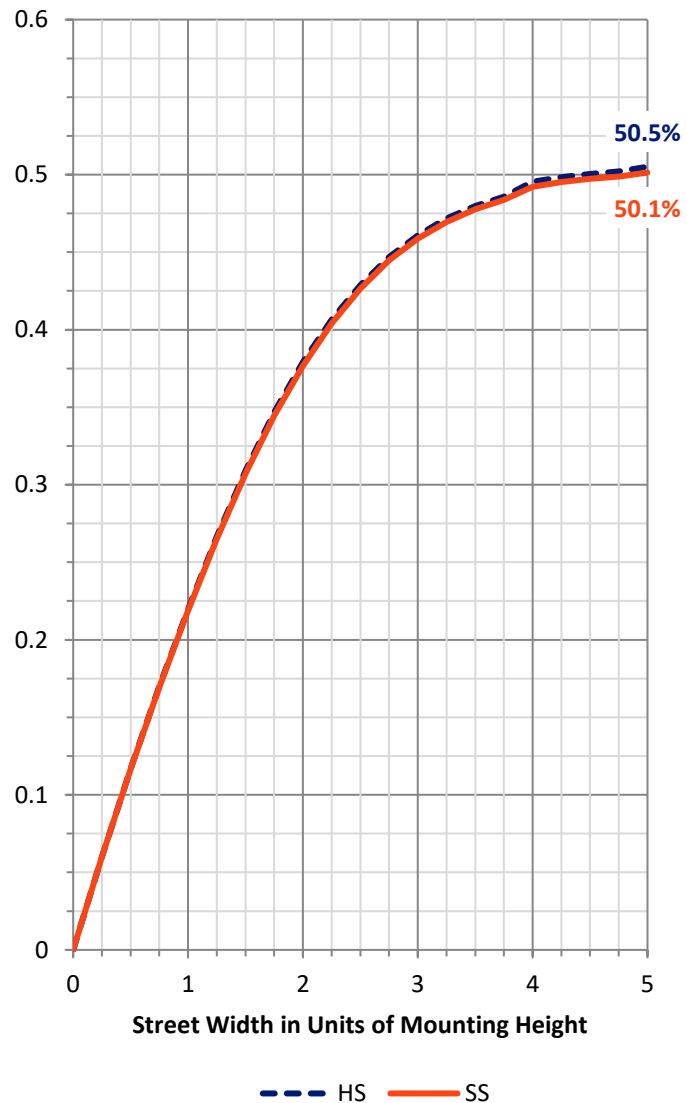
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16110.0	0.0	16110.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16110.0	0.0	16110.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32220.0	0.0	32220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	0.8
10°-20°	746.8	2.3
20°-30°	1272.4	3.9
30°-40°	1972.2	6.1
40°-50°	3319.5	10.3
50°-60°	6039.8	18.7
60°-70°	10225.2	31.7
70°-80°	7914.7	24.6
80°-90°	474.3	1.5
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°	32220.0	100.0
0°-180°	32220.0	100.0

Coefficient of Utilization



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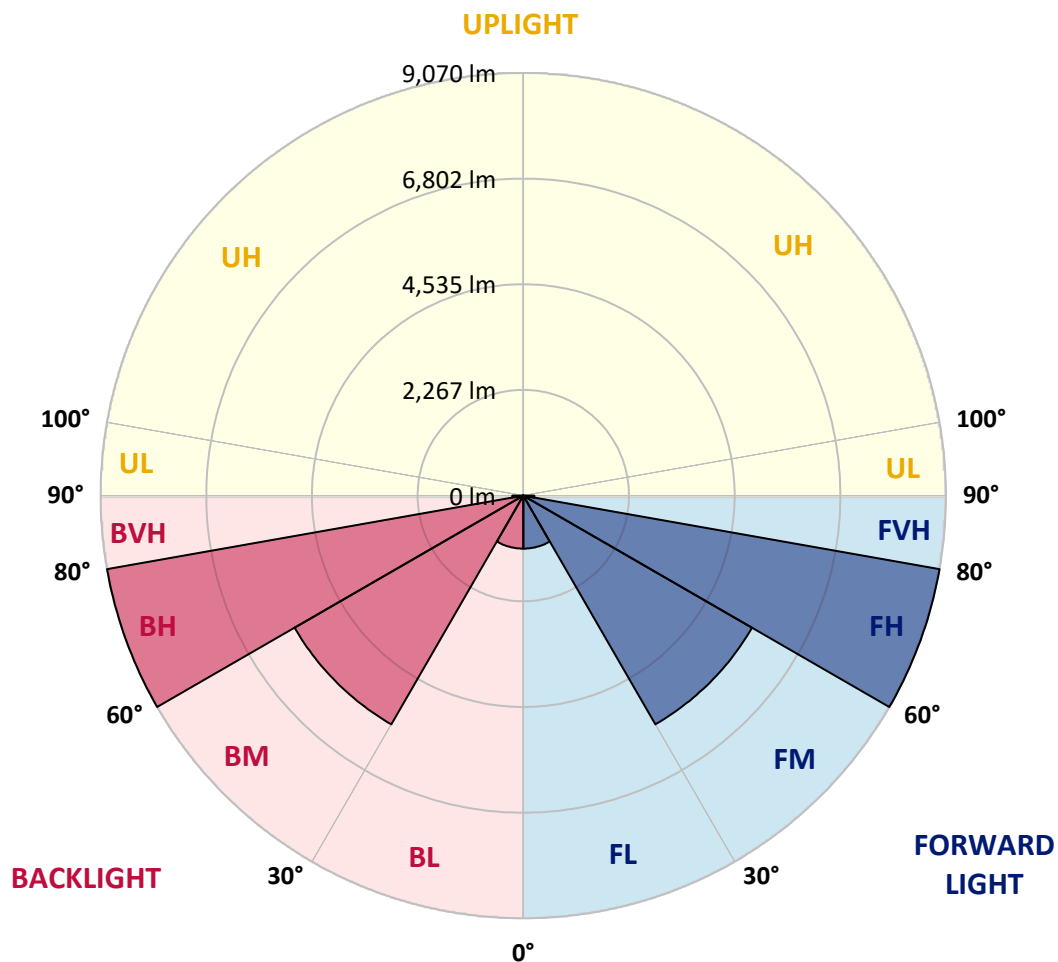
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.2	3.5			
FM	(30°-60°)	5665.8	17.6			
FH	(60°-80°)	9069.9	28.1			G4/12000
FVH	(80°-90°)	237.1	0.7			G3/500
BL	(0°-30°)	1137.2	3.5	B3/2500		
BM	(30°-60°)	5665.8	17.6	B4/8500		
BH	(60°-80°)	9069.9	28.1	B5		G4/12000
BVH	(80°-90°)	237.1	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8
2.5°	2721.0	2722.7	2722.7	2719.3	2717.6	2717.6	2715.9	2715.9	2721.0	2722.7	2724.4
5°	2697.2	2697.2	2697.2	2695.5	2692.1	2692.1	2688.7	2688.7	2690.4	2695.5	2692.1
7.5°	2664.9	2668.3	2668.3	2661.5	2656.3	2656.3	2654.6	2656.3	2658.0	2663.2	2661.5
10°	2654.6	2656.3	2647.8	2635.9	2627.4	2622.3	2624.0	2627.4	2635.9	2639.3	2641.0
12.5°	2661.5	2661.5	2646.1	2629.1	2613.8	2607.0	2605.3	2617.2	2632.5	2642.7	2646.1
15°	2670.0	2666.6	2647.8	2625.7	2610.4	2608.7	2607.0	2615.5	2637.6	2658.0	2659.7
17.5°	2675.1	2673.4	2649.5	2622.3	2613.8	2613.8	2612.1	2618.9	2642.7	2668.3	2670.0
20°	2692.1	2687.0	2659.7	2630.8	2624.0	2627.4	2622.3	2630.8	2656.3	2687.0	2693.8
22.5°	2726.1	2721.0	2693.8	2664.9	2661.5	2661.5	2659.7	2668.3	2695.5	2727.8	2732.9
25°	2767.0	2761.9	2736.3	2715.9	2719.3	2726.1	2722.7	2724.4	2746.5	2773.8	2782.3
27.5°	2821.4	2812.9	2790.8	2773.8	2784.0	2784.0	2784.0	2782.3	2795.9	2821.4	2829.9
30°	2887.8	2884.4	2860.5	2858.8	2867.4	2858.8	2858.8	2860.5	2862.3	2886.1	2894.6
32.5°	2974.6	2967.8	2955.8	2952.4	2976.3	2983.1	2959.2	2937.1	2949.0	2972.9	2978.0
35°	3117.5	3107.3	3090.3	3071.6	3090.3	3122.6	3071.6	3054.5	3085.2	3117.5	3120.9
37.5°	3311.5	3306.4	3279.2	3245.1	3243.4	3277.5	3224.7	3223.0	3280.9	3320.0	3325.1
40°	3554.8	3559.9	3525.9	3493.6	3476.6	3503.8	3462.9	3478.3	3534.4	3578.7	3575.3
42.5°	3896.9	3878.2	3825.4	3794.8	3776.1	3765.9	3755.6	3779.5	3842.4	3890.1	3927.5
45°	4296.8	4290.0	4223.6	4186.2	4145.3	4130.0	4126.6	4169.2	4245.7	4303.6	4308.7
47.5°	4749.4	4734.1	4691.6	4652.4	4637.1	4618.4	4601.4	4633.7	4710.3	4751.1	4763.0
50°	5215.7	5219.1	5219.1	5212.3	5227.6	5231.0	5185.1	5197.0	5239.5	5236.1	5232.7
52.5°	5748.3	5767.0	5855.5	5864.0	5937.2	5986.6	5903.2	5853.8	5838.5	5746.6	5753.4
55°	6374.6	6391.6	6524.3	6657.0	6854.4	6937.8	6762.5	6609.4	6500.5	6360.9	6367.7
57.5°	7155.6	7164.1	7290.1	7545.3	7858.4	8054.1	7746.1	7443.2	7222.0	7089.3	7036.5
60°	7996.3	8004.8	8188.6	8500.0	8986.7	9224.9	8843.7	8348.5	8069.4	7866.9	7880.6
62.5°	9005.4	9039.4	9204.5	9633.3	10223.8	10491.0	9985.5	9323.6	8945.8	8694.0	8704.2
65°	10085.9	10143.8	10324.2	10795.6	11340.1	11627.7	11008.3	10244.2	9774.5	9466.5	9498.9
67.5°	10787.0	10838.1	11098.5	11619.2	12298.2	12536.4	11736.6	10846.6	10259.5	9892.0	9823.9
70°	10608.4	10650.9	10998.1	11736.6	12742.3	13043.5	11910.2	10758.1	10067.2	9643.5	9616.3
72.5°	9364.4	9275.9	9783.0	10843.2	12235.2	12740.6	11363.9	9825.6	8956.0	8520.4	8469.3
75°	6206.1	6398.4	7147.1	8396.2	10351.4	10977.6	9699.7	7889.1	6794.9	6432.4	6376.3
77.5°	2074.4	2222.4	2887.8	4759.6	7056.9	7998.0	7067.1	5159.5	3650.1	2940.5	2954.1
80°	549.6	542.8	702.8	1308.6	3049.4	4632.0	3549.7	1747.6	956.4	692.6	656.9
82.5°	197.4	221.2	284.2	362.5	808.3	1439.6	1015.9	490.1	359.1	265.5	257.0
85°	86.8	85.1	122.5	144.6	202.5	268.9	238.2	207.6	182.1	120.8	112.3
87.5°	18.7	18.7	28.9	22.1	35.7	35.7	44.2	52.8	54.5	35.7	28.9
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)