

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: P453844

Luminaire Tested: **GALN-SA4D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453844
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-SA4D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25505 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 245
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

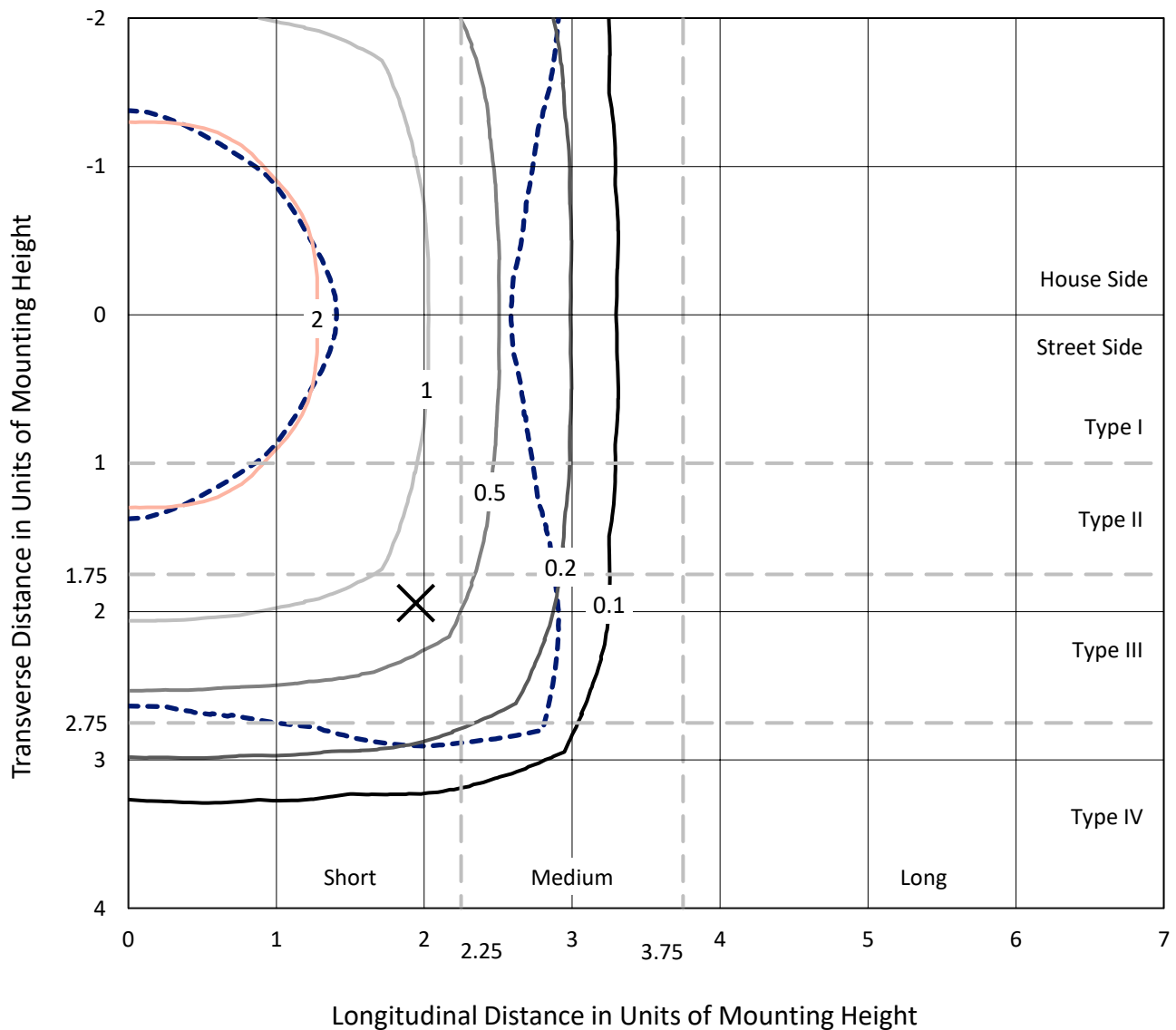


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

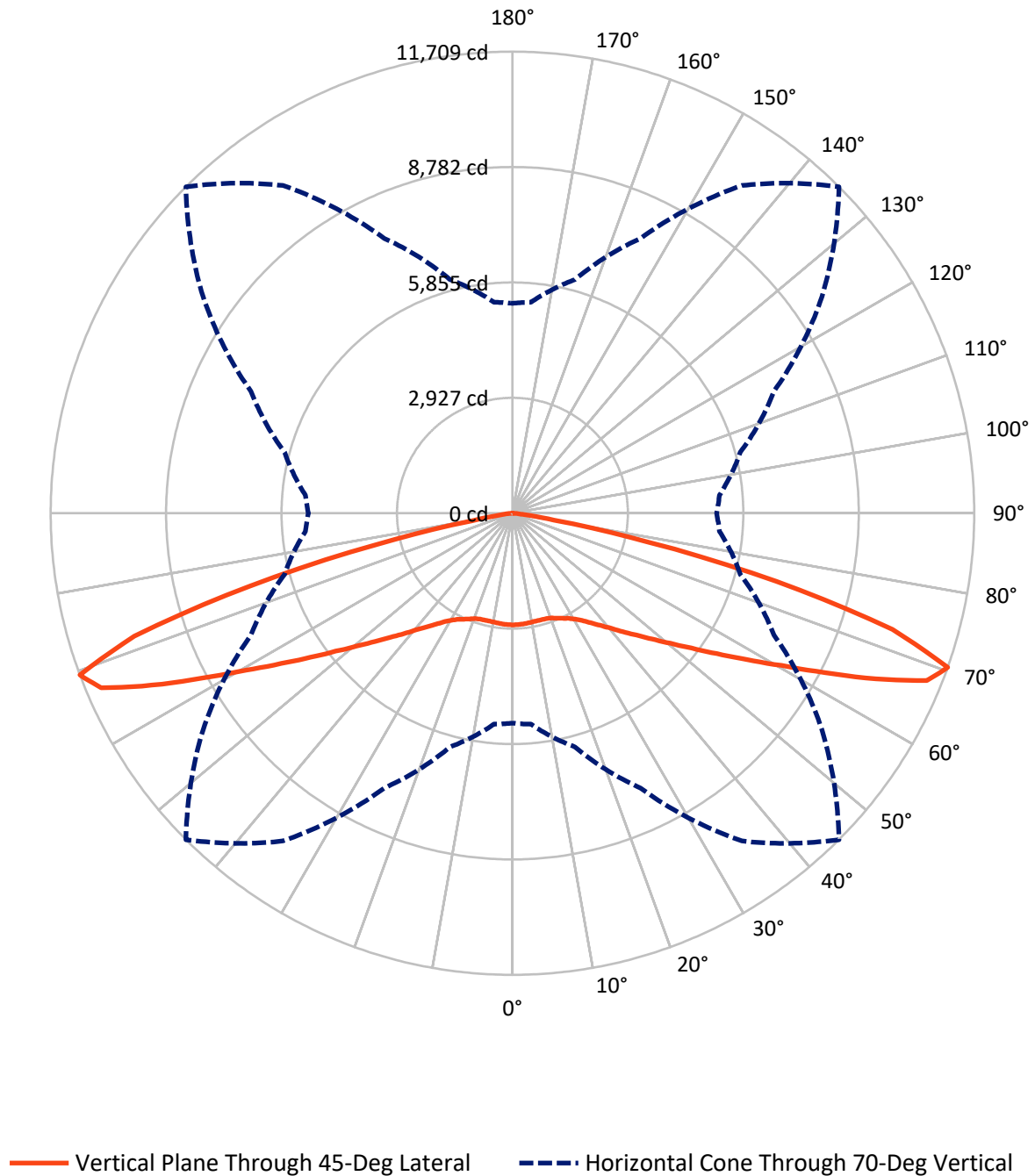


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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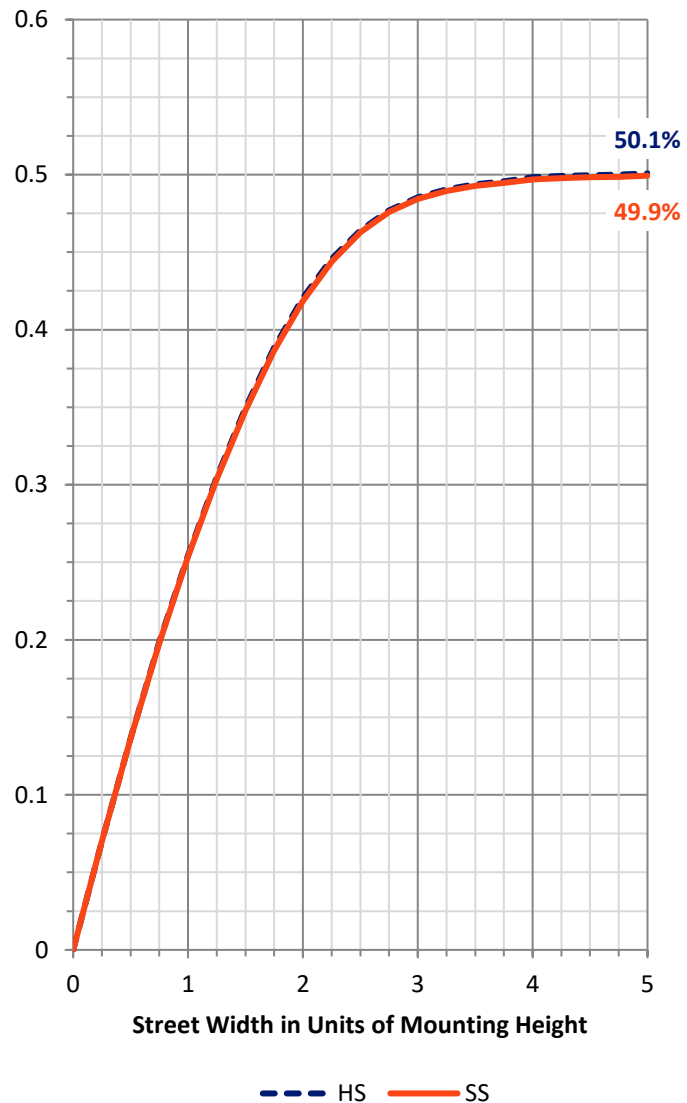
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12752.5	0.0	12752.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12752.5	0.0	12752.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25505.0	0.0	25505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	1.1
10°-20°	788.1	3.1
20°-30°	1347.9	5.3
30°-40°	2139.4	8.4
40°-50°	3451.5	13.5
50°-60°	5615.6	22.0
60°-70°	8140.6	31.9
70°-80°	3610.9	14.2
80°-90°	142.4	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°	25505.0	100.0
0°-180°	25505.0	100.0

Coefficient of Utilization



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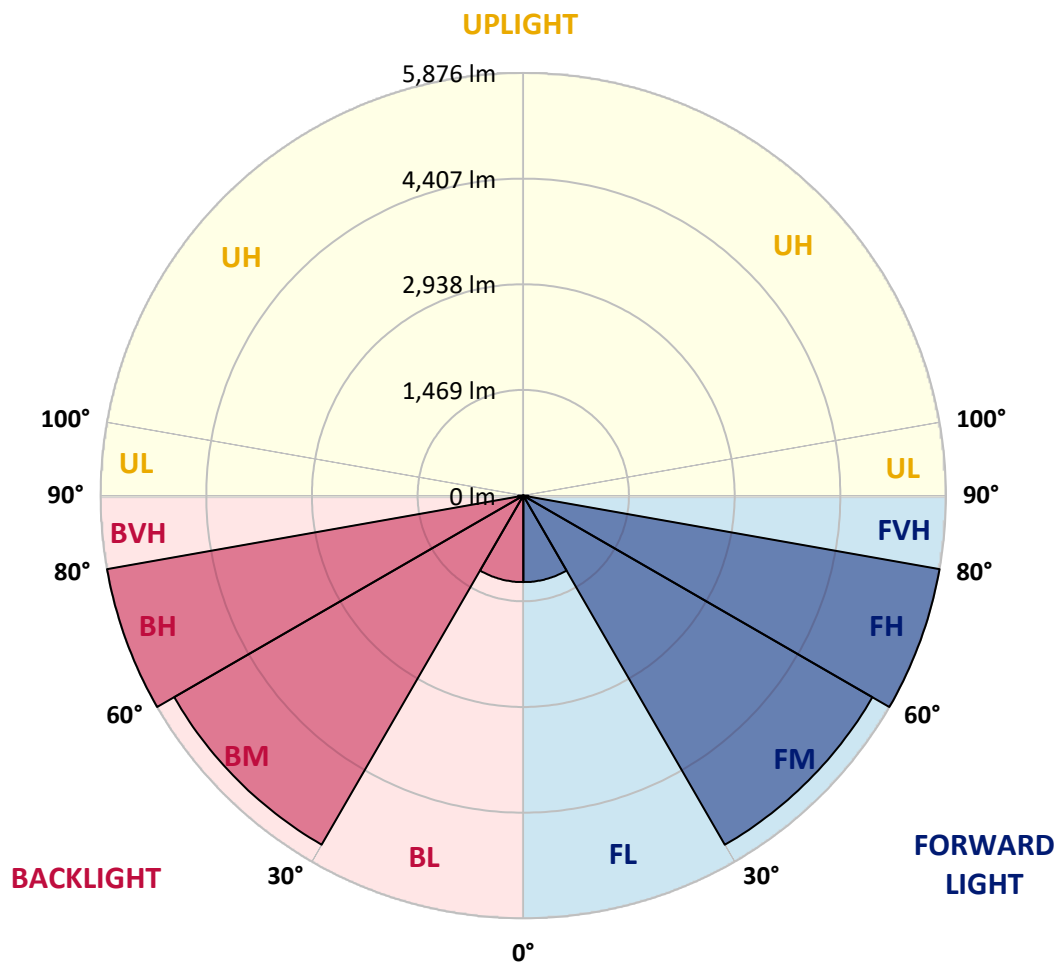
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1202.3	4.7			
FM	(30°-60°)	5603.2	22.0			
FH	(60°-80°)	5875.7	23.0			G3/7500
FVH	(80°-90°)	71.2	0.3			G1/100
BL	(0°-30°)	1202.3	4.7	B3/2500		
BM	(30°-60°)	5603.2	22.0	B4/8500		
BH	(60°-80°)	5875.7	23.0	B5		G3/7500
BVH	(80°-90°)	71.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2832.2	2832.2	2832.2	2832.2	2832.2	2832.2	2832.2	2832.2	2832.2	2832.2	2832.2
2.5°	2832.2	2834.9	2830.9	2828.2	2826.8	2826.8	2825.5	2826.8	2834.9	2836.2	2832.2
5°	2824.1	2826.8	2825.5	2822.8	2821.5	2821.5	2820.1	2818.8	2825.5	2828.2	2826.8
7.5°	2813.4	2814.7	2813.4	2812.0	2813.4	2812.0	2808.0	2805.3	2810.7	2810.7	2809.4
10°	2794.6	2797.3	2795.9	2797.3	2799.9	2799.9	2794.6	2789.2	2790.5	2787.9	2787.9
12.5°	2771.7	2775.8	2777.1	2782.5	2789.2	2797.3	2785.2	2773.1	2770.4	2769.0	2767.7
15°	2756.9	2761.0	2766.3	2771.7	2783.8	2801.3	2783.8	2765.0	2759.6	2754.2	2751.6
17.5°	2752.9	2758.3	2766.3	2774.4	2790.5	2808.0	2793.2	2774.4	2761.0	2752.9	2750.2
20°	2763.7	2767.7	2779.8	2794.6	2817.4	2834.9	2820.1	2799.9	2779.8	2767.7	2763.7
22.5°	2785.2	2791.9	2806.7	2833.6	2865.8	2891.4	2871.2	2837.6	2805.3	2789.2	2783.8
25°	2832.2	2837.6	2855.1	2891.4	2929.0	2953.2	2931.7	2892.7	2848.3	2826.8	2820.1
27.5°	2903.5	2911.5	2930.3	2973.4	3004.3	3017.7	3002.9	2976.0	2943.8	2920.9	2915.5
30°	3004.3	3013.7	3041.9	3087.6	3107.8	3115.8	3109.1	3091.6	3068.8	3044.6	3039.2
32.5°	3140.0	3145.4	3177.7	3220.7	3239.5	3242.2	3234.1	3226.1	3188.4	3148.1	3145.4
35°	3291.9	3301.3	3340.3	3391.4	3408.9	3410.2	3394.1	3382.0	3337.6	3305.4	3305.4
37.5°	3493.6	3497.6	3535.2	3593.0	3611.8	3606.5	3598.4	3587.6	3540.6	3498.9	3500.3
40°	3730.1	3738.2	3770.5	3837.7	3837.7	3830.9	3836.3	3828.3	3781.2	3740.9	3742.2
42.5°	4011.1	4015.1	4054.1	4125.3	4119.9	4106.5	4111.9	4101.1	4071.6	4025.9	4009.7
45°	4310.8	4327.0	4394.2	4462.7	4452.0	4408.9	4430.5	4427.8	4400.9	4332.3	4336.4
47.5°	4672.4	4699.3	4763.8	4845.8	4833.7	4766.5	4790.7	4806.8	4769.2	4693.9	4680.5
50°	5079.7	5097.2	5192.6	5269.2	5258.5	5187.2	5242.3	5245.0	5150.9	5044.7	5044.7
52.5°	5513.9	5531.3	5660.4	5780.0	5786.7	5683.2	5727.6	5724.9	5571.7	5431.9	5405.0
55°	6000.5	6008.5	6175.2	6351.3	6388.9	6288.1	6293.5	6239.7	6040.8	5878.1	5863.4
57.5°	6503.2	6532.8	6716.9	6945.4	7057.0	6995.2	6966.9	6823.1	6630.9	6444.1	6434.6
60°	7059.7	7061.0	7300.3	7570.5	7796.3	7838.0	7722.4	7530.2	7281.5	7034.2	7023.4
62.5°	7445.5	7503.3	7805.7	8262.7	8667.3	8901.2	8596.1	8192.8	7703.6	7304.3	7264.0
65°	7524.8	7563.8	8024.8	8799.1	9625.8	10129.8	9424.1	8566.5	7731.8	7199.5	7172.6
67.5°	6883.6	6925.3	7546.3	8734.6	10297.8	11331.5	9961.8	8386.4	7253.3	6594.6	6542.2
70°	5324.3	5371.4	6138.9	7688.8	10148.6	11709.2	9578.7	7315.1	5981.6	5270.6	5175.1
72.5°	2830.9	3004.3	3660.2	5277.3	8237.2	10081.4	7854.1	5337.8	3857.8	3153.5	3027.1
75°	1033.7	1055.2	1420.8	2340.2	4792.0	6913.2	4976.2	2545.9	1463.8	1130.5	1072.7
77.5°	427.5	426.1	467.8	707.0	1740.7	3540.6	1942.4	747.4	466.4	431.5	426.1
80°	252.7	252.7	278.2	294.4	458.4	1068.6	512.1	333.4	279.6	255.4	259.4
82.5°	112.9	119.6	176.1	185.5	221.8	293.0	247.3	212.4	182.8	126.4	114.3
85°	61.8	53.8	92.7	96.8	106.2	108.9	116.9	115.6	106.2	61.8	63.2
87.5°	12.1	14.8	26.9	20.2	22.9	20.2	26.9	37.6	39.0	21.5	17.5
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)