

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: P454308

Luminaire Tested: **GALN-SA5B-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454308
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-SA5B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23749 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 204
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

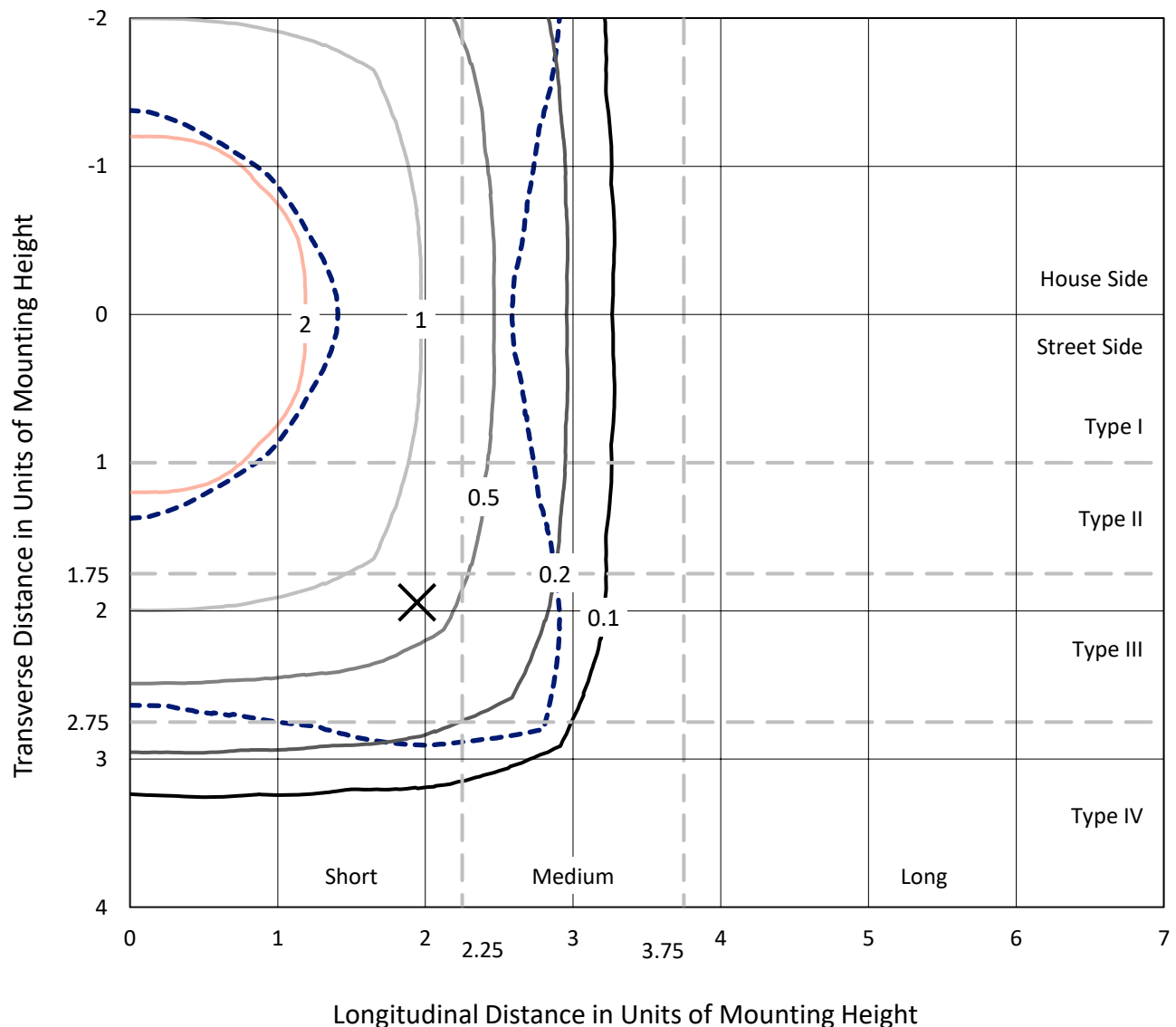


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

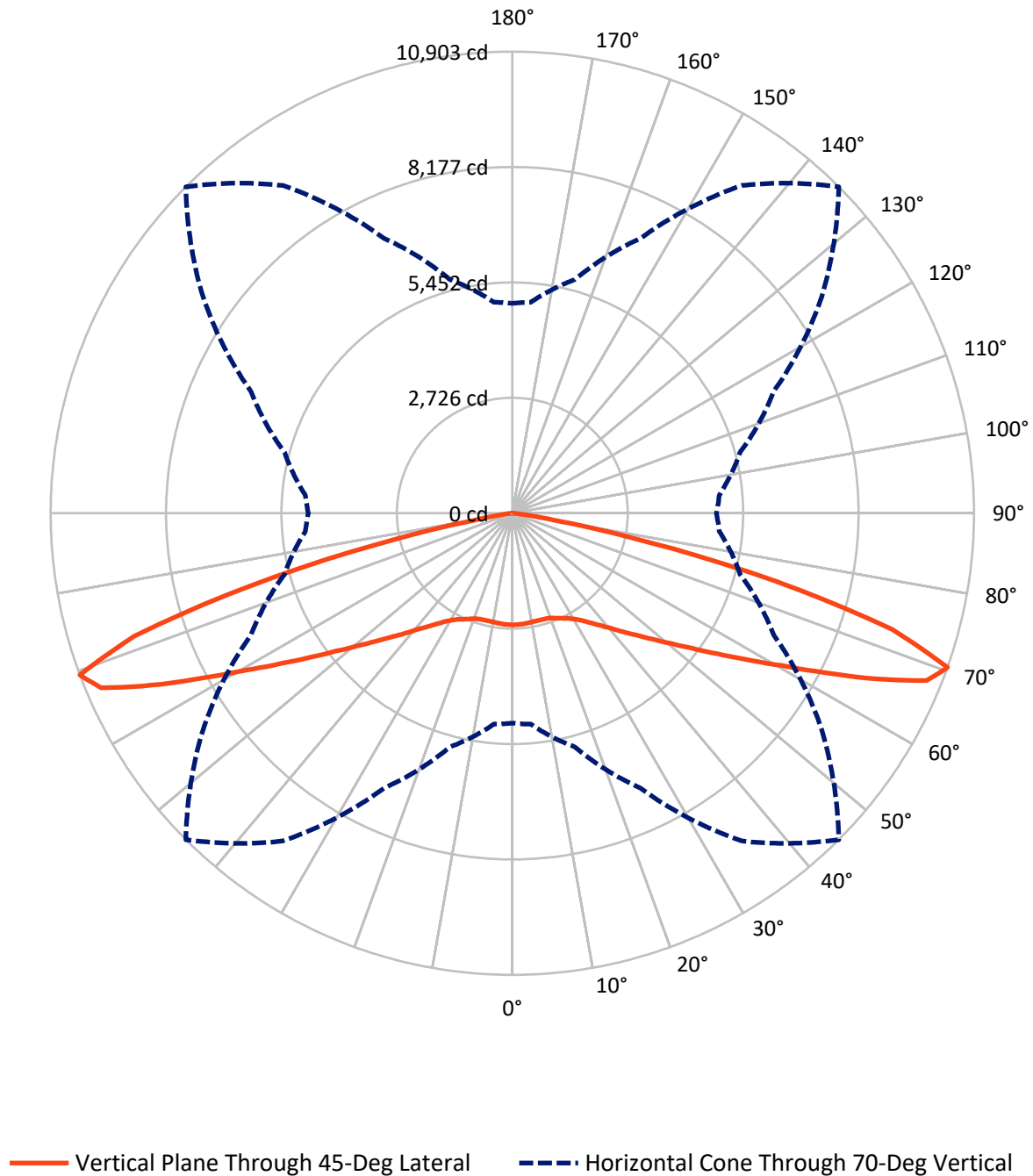


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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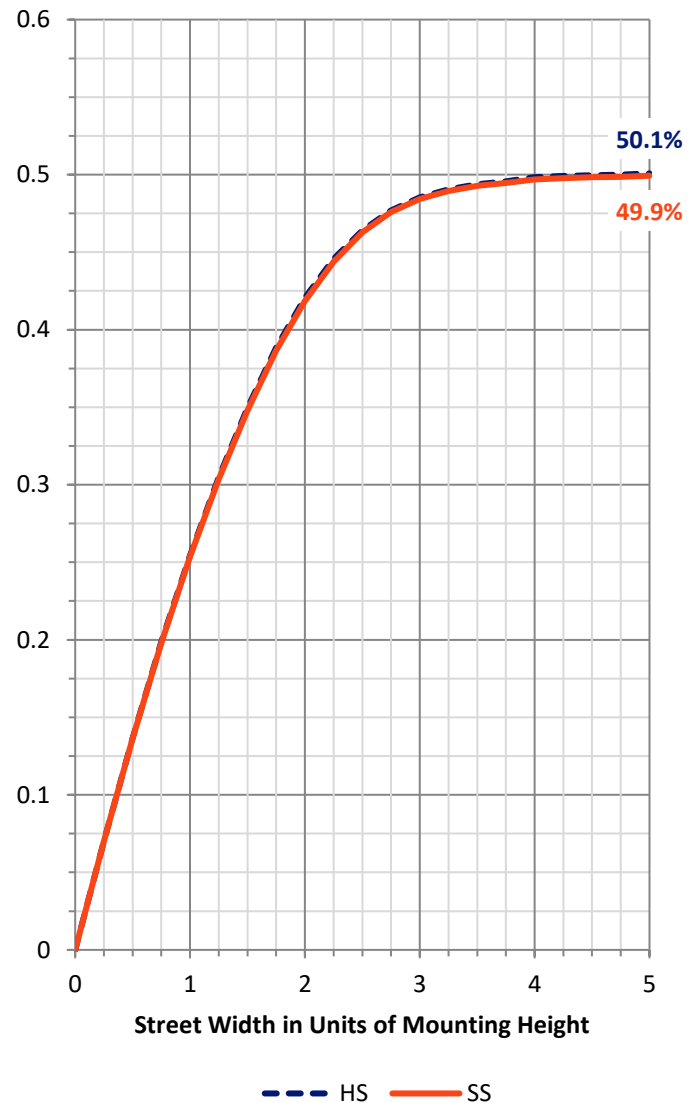
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11874.5	0.0	11874.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11874.5	0.0	11874.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23749.0	0.0	23749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	1.1
10°-20°	733.9	3.1
20°-30°	1255.1	5.3
30°-40°	1992.1	8.4
40°-50°	3213.8	13.5
50°-60°	5229.0	22.0
60°-70°	7580.1	31.9
70°-80°	3362.3	14.2
80°-90°	132.6	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°	23749.0	100.0
0°-180°	23749.0	100.0

Coefficient of Utilization



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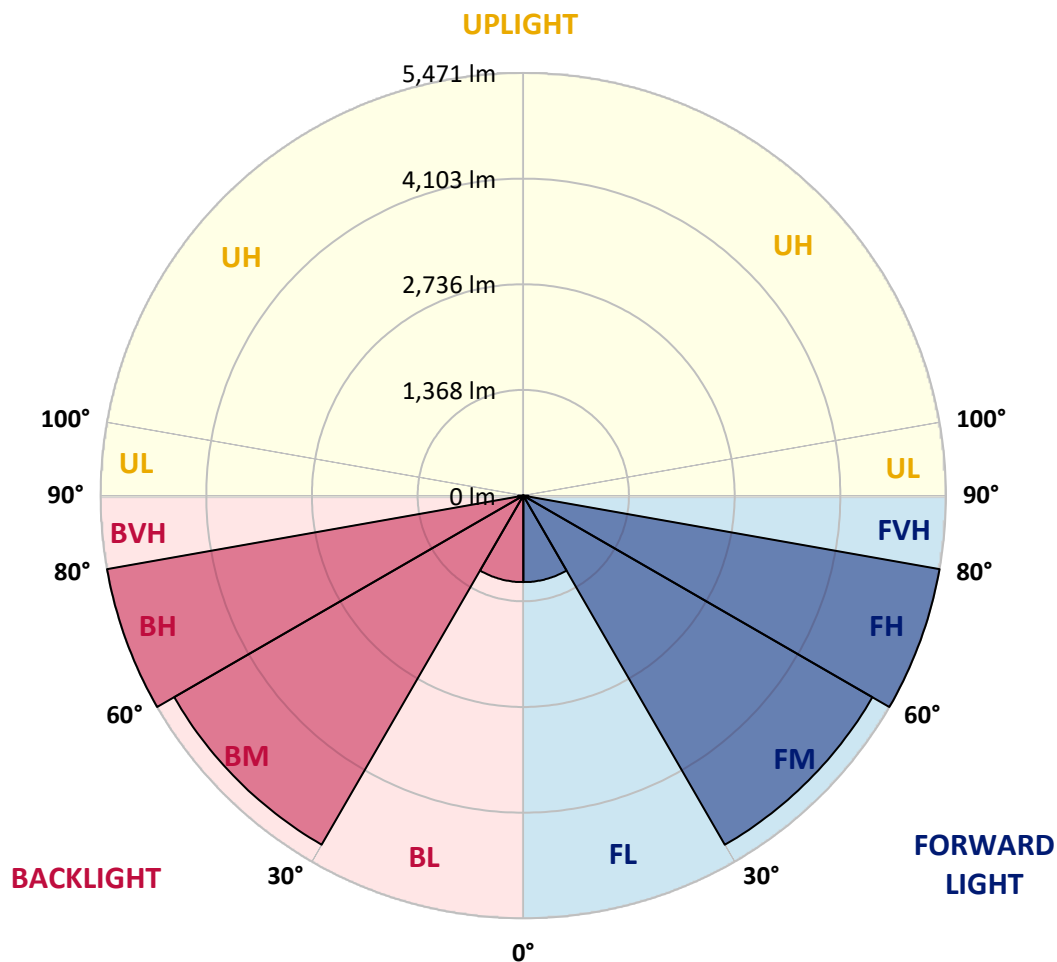
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.5	4.7			
FM	(30°-60°)	5217.5	22.0			
FH	(60°-80°)	5471.2	23.0			G3/7500
FVH	(80°-90°)	66.3	0.3			G1/100
BL	(0°-30°)	1119.5	4.7	B3/2500		
BM	(30°-60°)	5217.5	22.0	B4/8500		
BH	(60°-80°)	5471.2	23.0	B5		G3/7500
BVH	(80°-90°)	66.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2
2.5°	2637.2	2639.7	2636.0	2633.5	2632.2	2632.2	2631.0	2632.2	2639.7	2641.0	2637.2
5°	2629.7	2632.2	2631.0	2628.5	2627.2	2627.2	2625.9	2624.7	2631.0	2633.5	2632.2
7.5°	2619.7	2620.9	2619.7	2618.4	2619.7	2618.4	2614.7	2612.2	2617.2	2617.2	2615.9
10°	2602.2	2604.7	2603.4	2604.7	2607.2	2607.2	2602.2	2597.2	2598.4	2595.9	2595.9
12.5°	2580.9	2584.6	2585.9	2590.9	2597.2	2604.7	2593.4	2582.1	2579.6	2578.4	2577.1
15°	2567.1	2570.9	2575.9	2580.9	2592.2	2608.4	2592.2	2574.6	2569.6	2564.6	2562.1
17.5°	2563.4	2568.4	2575.9	2583.4	2598.4	2614.7	2600.9	2583.4	2570.9	2563.4	2560.9
20°	2573.4	2577.1	2588.4	2602.2	2623.4	2639.7	2625.9	2607.2	2588.4	2577.1	2573.4
22.5°	2593.4	2599.7	2613.4	2638.5	2668.5	2692.3	2673.5	2642.2	2612.2	2597.2	2592.2
25°	2637.2	2642.2	2658.5	2692.3	2727.3	2749.9	2729.8	2693.5	2652.2	2632.2	2625.9
27.5°	2703.6	2711.1	2728.6	2768.6	2797.4	2809.9	2796.2	2771.1	2741.1	2719.8	2714.8
30°	2797.4	2806.2	2832.5	2875.0	2893.8	2901.3	2895.1	2878.8	2857.5	2835.0	2830.0
32.5°	2923.8	2928.8	2958.9	2998.9	3016.5	3019.0	3011.5	3003.9	2968.9	2931.4	2928.8
35°	3065.3	3074.0	3110.3	3157.9	3174.2	3175.4	3160.4	3149.1	3107.8	3077.8	3077.8
37.5°	3253.0	3256.8	3291.8	3345.6	3363.2	3358.2	3350.7	3340.6	3296.8	3258.0	3259.3
40°	3473.3	3480.8	3510.9	3573.4	3573.4	3567.2	3572.2	3564.7	3520.9	3483.3	3484.6
42.5°	3734.9	3738.7	3775.0	3841.3	3836.3	3823.8	3828.8	3818.8	3791.2	3748.7	3733.7
45°	4014.0	4029.0	4091.6	4155.5	4145.4	4105.4	4125.4	4122.9	4097.9	4034.0	4037.8
47.5°	4350.7	4375.7	4435.8	4512.2	4500.9	4438.3	4460.9	4475.9	4440.8	4370.7	4358.2
50°	4730.0	4746.2	4835.1	4906.4	4896.4	4830.1	4881.4	4883.9	4796.3	4697.4	4697.4
52.5°	5134.2	5150.5	5270.7	5382.1	5388.3	5292.0	5333.3	5330.8	5188.1	5057.9	5032.9
55°	5587.3	5594.8	5750.1	5914.0	5949.1	5855.2	5860.2	5810.1	5624.9	5473.4	5459.7
57.5°	6055.5	6083.0	6254.5	6467.2	6571.1	6513.6	6487.3	6353.3	6174.4	6000.4	5991.6
60°	6573.6	6574.9	6797.7	7049.3	7259.5	7298.3	7190.7	7011.7	6780.2	6549.9	6539.8
62.5°	6932.9	6986.7	7268.3	7693.9	8070.6	8288.4	8004.3	7628.8	7173.2	6801.4	6763.9
65°	7006.7	7043.0	7472.3	8193.3	8963.0	9432.4	8775.3	7976.7	7199.5	6703.8	6678.8
67.5°	6409.7	6448.5	7026.7	8133.2	9588.8	10551.4	9275.9	7809.0	6753.9	6140.6	6091.8
70°	4957.8	5001.6	5716.3	7159.4	9449.9	10903.1	8919.2	6811.4	5569.8	4907.7	4818.8
72.5°	2636.0	2797.4	3408.2	4914.0	7670.1	9387.3	7313.4	4970.3	3592.2	2936.4	2818.7
75°	962.5	982.5	1323.0	2179.1	4462.1	6437.2	4633.6	2370.6	1363.0	1052.6	998.8
77.5°	398.0	396.8	435.6	658.4	1620.9	3296.8	1808.6	695.9	434.3	401.8	396.8
80°	235.3	235.3	259.1	274.1	426.8	995.1	476.9	310.4	260.3	237.8	241.6
82.5°	105.1	111.4	164.0	172.7	206.5	272.9	230.3	197.8	170.2	117.7	106.4
85°	57.6	50.1	86.4	90.1	98.9	101.4	108.9	107.6	98.9	57.6	58.8
87.5°	11.3	13.8	25.0	18.8	21.3	18.8	25.0	35.0	36.3	20.0	16.3
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)