

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: P453612

Luminaire Tested: **GALN-SA4C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453612
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-SA4C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23179 lumens
Efficiency: N/A
Efficacy: 108.8 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): 213
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



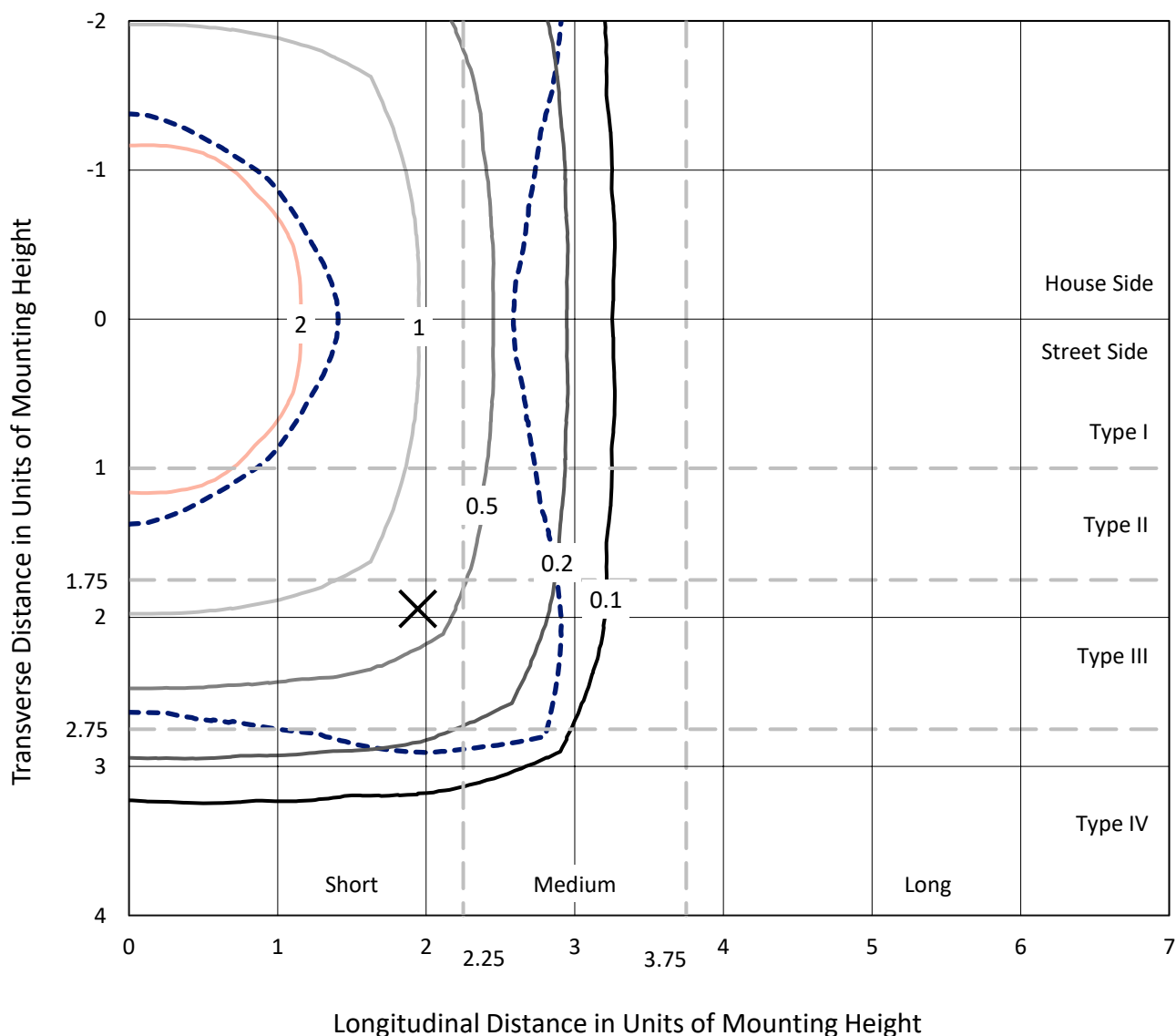
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



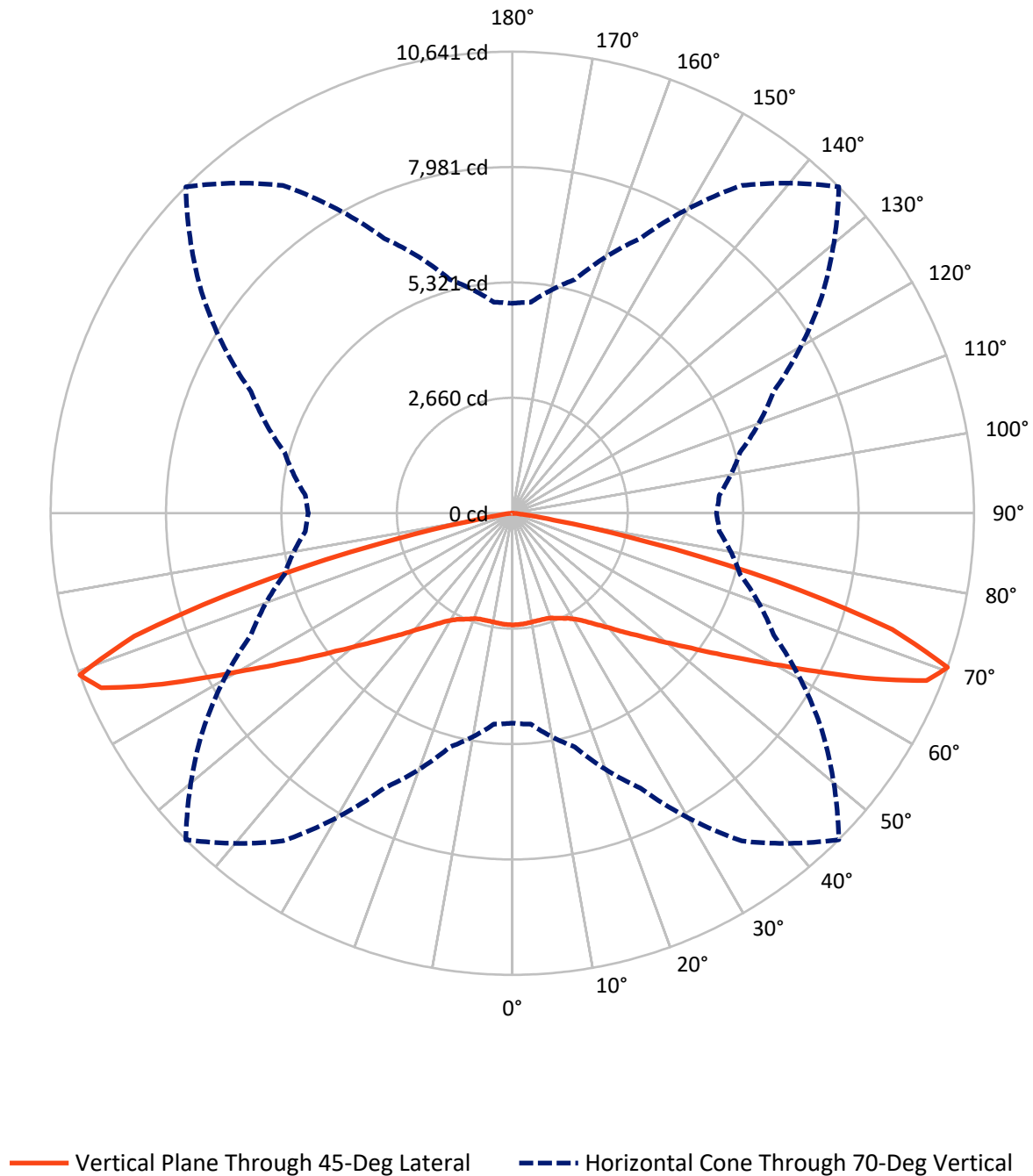
Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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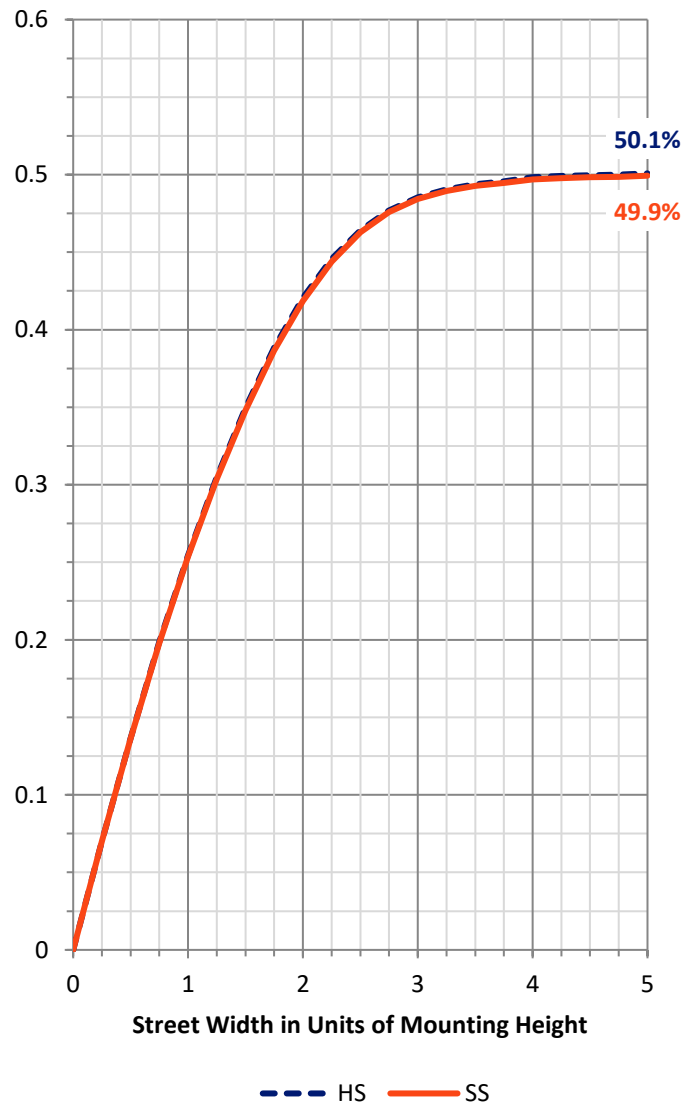
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11589.5	0.0	11589.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11589.5	0.0	11589.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23179.0	0.0	23179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	1.1
10°-20°	716.2	3.1
20°-30°	1225.0	5.3
30°-40°	1944.3	8.4
40°-50°	3136.7	13.5
50°-60°	5103.5	22.0
60°-70°	7398.2	31.9
70°-80°	3281.6	14.2
80°-90°	129.4	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°	23179.0	100.0
0°-180°	23179.0	100.0

Coefficient of Utilization



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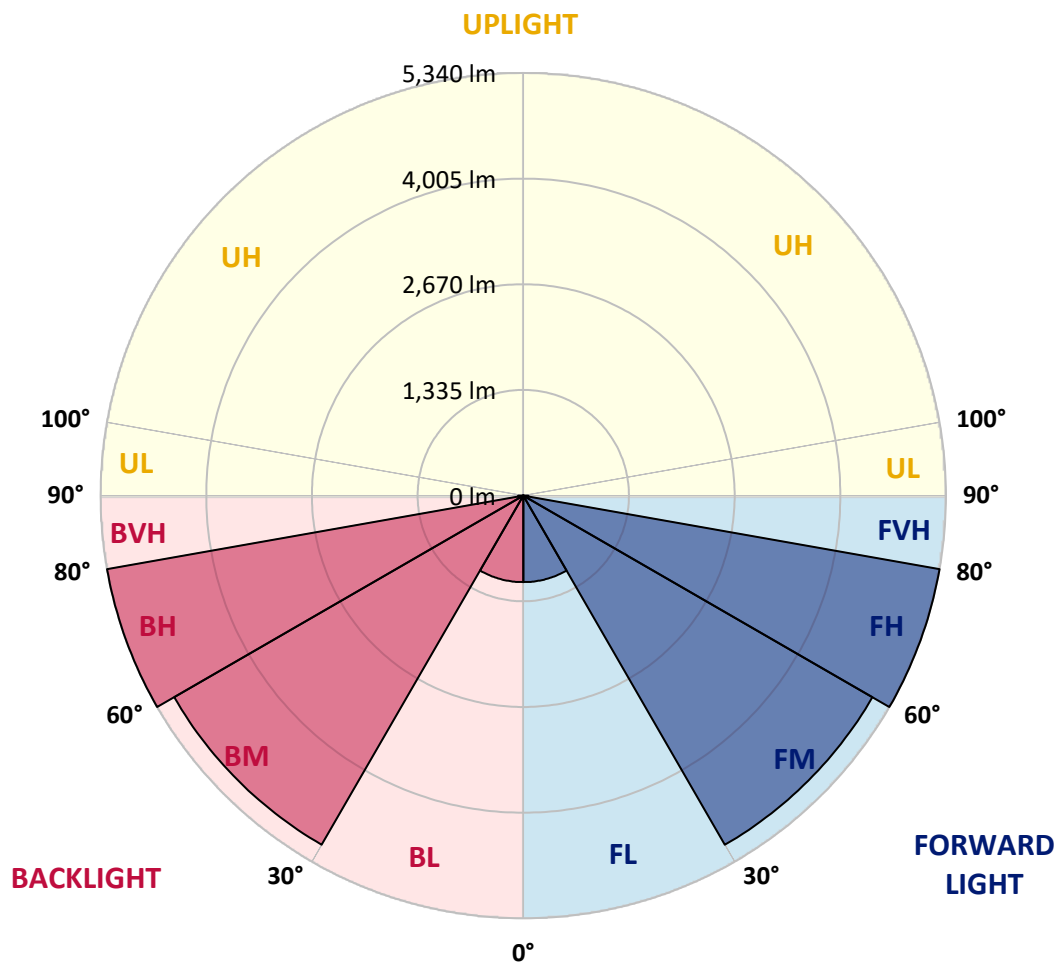
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1092.7	4.7			
FM	(30°-60°)	5092.2	22.0			
FH	(60°-80°)	5339.9	23.0			G3/7500
FVH	(80°-90°)	64.7	0.3			G1/100
BL	(0°-30°)	1092.7	4.7	B3/2500		
BM	(30°-60°)	5092.2	22.0	B4/8500		
BH	(60°-80°)	5339.9	23.0	B5		G3/7500
BVH	(80°-90°)	64.7	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°	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9
2.5°	2573.9	2576.4	2572.7	2570.3	2569.0	2569.0	2567.8	2569.0	2576.4	2577.6	2573.9
5°	2566.6	2569.0	2567.8	2565.4	2564.1	2564.1	2562.9	2561.7	2567.8	2570.3	2569.0
7.5°	2556.8	2558.0	2556.8	2555.6	2556.8	2555.6	2551.9	2549.5	2554.4	2554.4	2553.2
10°	2539.7	2542.2	2540.9	2542.2	2544.6	2544.6	2539.7	2534.8	2536.0	2533.6	2533.6
12.5°	2518.9	2522.6	2523.8	2528.7	2534.8	2542.2	2531.2	2520.2	2517.7	2516.5	2515.3
15°	2505.5	2509.2	2514.1	2518.9	2529.9	2545.8	2529.9	2512.8	2508.0	2503.1	2500.6
17.5°	2501.8	2506.7	2514.1	2521.4	2536.0	2551.9	2538.5	2521.4	2509.2	2501.8	2499.4
20°	2511.6	2515.3	2526.3	2539.7	2560.5	2576.4	2562.9	2544.6	2526.3	2515.3	2511.6
22.5°	2531.2	2537.3	2550.7	2575.1	2604.5	2627.7	2609.3	2578.8	2549.5	2534.8	2529.9
25°	2573.9	2578.8	2594.7	2627.7	2661.9	2683.9	2664.3	2628.9	2588.6	2569.0	2562.9
27.5°	2638.7	2646.0	2663.1	2702.2	2730.3	2742.5	2729.1	2704.6	2675.3	2654.5	2649.7
30°	2730.3	2738.8	2764.5	2806.0	2824.3	2831.7	2825.6	2809.7	2788.9	2766.9	2762.0
32.5°	2853.7	2858.6	2887.9	2927.0	2944.1	2946.5	2939.2	2931.8	2897.6	2861.0	2858.6
35°	2991.7	3000.3	3035.7	3082.1	3098.0	3099.2	3084.5	3073.6	3033.2	3003.9	3003.9
37.5°	3174.9	3178.6	3212.8	3265.3	3282.4	3277.6	3270.2	3260.5	3217.7	3179.8	3181.1
40°	3389.9	3397.3	3426.6	3487.7	3487.7	3481.6	3486.5	3479.1	3436.4	3399.7	3400.9
42.5°	3645.3	3648.9	3684.4	3749.1	3744.2	3732.0	3736.9	3727.1	3700.2	3658.7	3644.0
45°	3917.7	3932.3	3993.4	4055.7	4046.0	4006.9	4026.4	4024.0	3999.5	3937.2	3940.9
47.5°	4246.3	4270.7	4329.4	4403.9	4392.9	4331.8	4353.8	4368.5	4334.2	4265.8	4253.6
50°	4616.4	4632.3	4719.1	4788.7	4778.9	4714.2	4764.3	4766.7	4681.2	4584.7	4584.7
52.5°	5011.0	5026.9	5144.2	5252.9	5259.0	5164.9	5205.3	5202.8	5063.5	4936.5	4912.1
55°	5453.2	5460.6	5612.0	5772.1	5806.3	5714.7	5719.5	5670.7	5489.9	5342.1	5328.6
57.5°	5910.1	5937.0	6104.4	6312.0	6413.4	6357.2	6331.6	6200.9	6026.2	5856.4	5847.8
60°	6415.9	6417.1	6634.5	6880.1	7085.3	7123.2	7018.1	6843.4	6617.4	6392.7	6382.9
62.5°	6766.5	6819.0	7093.9	7509.2	7876.9	8089.5	7812.2	7445.7	7001.0	6638.2	6601.5
65°	6838.5	6874.0	7293.0	7996.6	8747.9	9206.0	8564.7	7785.3	7026.7	6542.9	6518.5
67.5°	6255.8	6293.7	6858.1	7938.0	9358.7	10298.1	9053.3	7621.6	6591.8	5993.2	5945.5
70°	4838.8	4881.5	5579.1	6987.6	9223.1	10641.4	8705.1	6648.0	5436.1	4789.9	4703.2
72.5°	2572.7	2730.3	3326.4	4796.0	7486.0	9162.0	7137.8	4851.0	3506.0	2865.9	2751.1
75°	939.4	959.0	1291.2	2126.8	4355.0	6282.7	4522.4	2313.7	1330.3	1027.4	974.8
77.5°	388.5	387.2	425.1	642.6	1582.0	3217.7	1765.2	679.2	423.9	392.1	387.2
80°	229.7	229.7	252.9	267.5	416.6	971.2	465.4	303.0	254.1	232.1	235.8
82.5°	102.6	108.7	160.0	168.6	201.6	266.3	224.8	193.0	166.1	114.8	103.8
85°	56.2	48.9	84.3	88.0	96.5	98.9	106.3	105.1	96.5	56.2	57.4
87.5°	11.0	13.4	24.4	18.3	20.8	18.3	24.4	34.2	35.4	19.5	15.9
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)