

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: P455932

Luminaire Tested: **GALN-SA7A-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455932
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-SA7A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26547 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 215
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



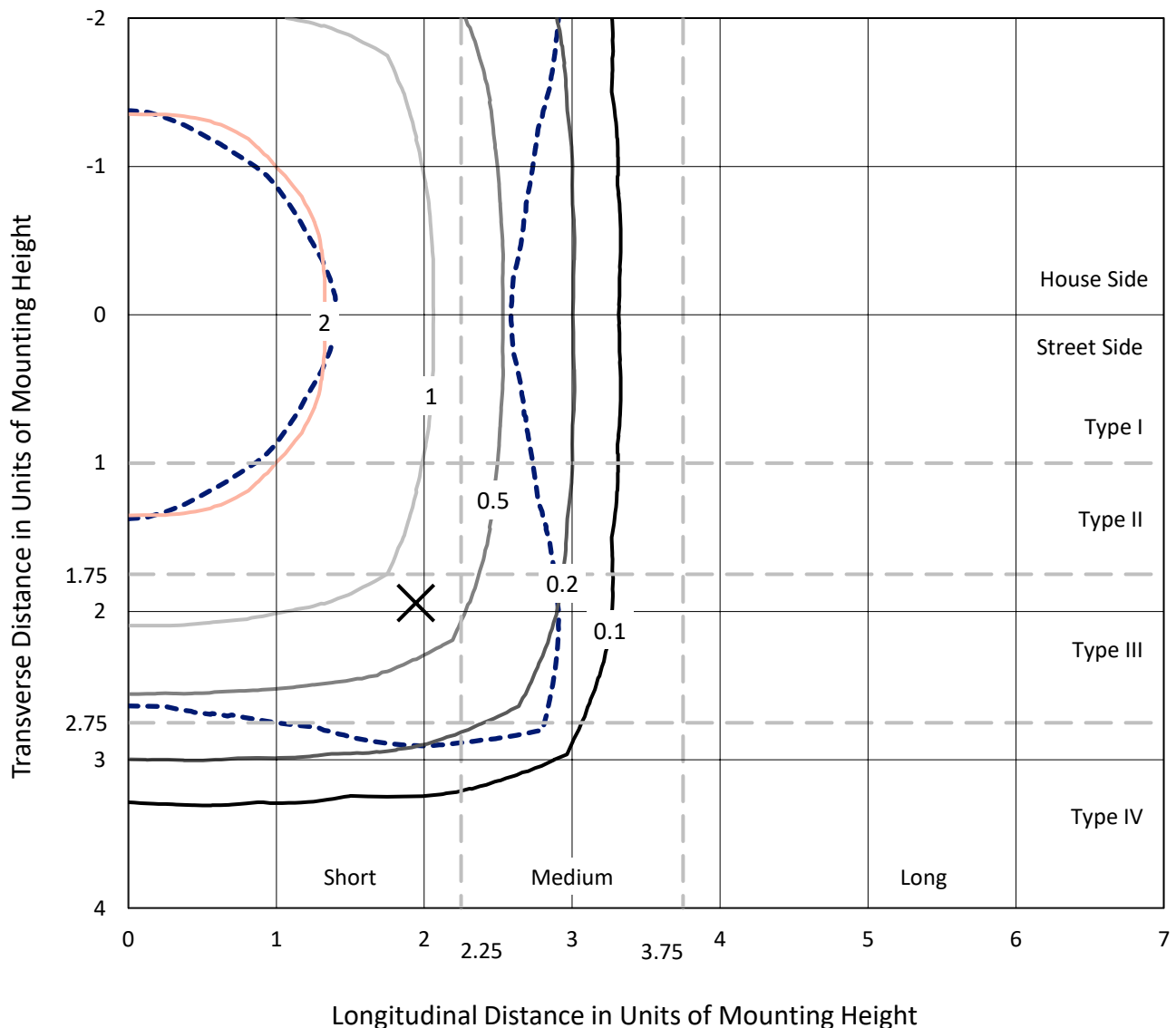
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



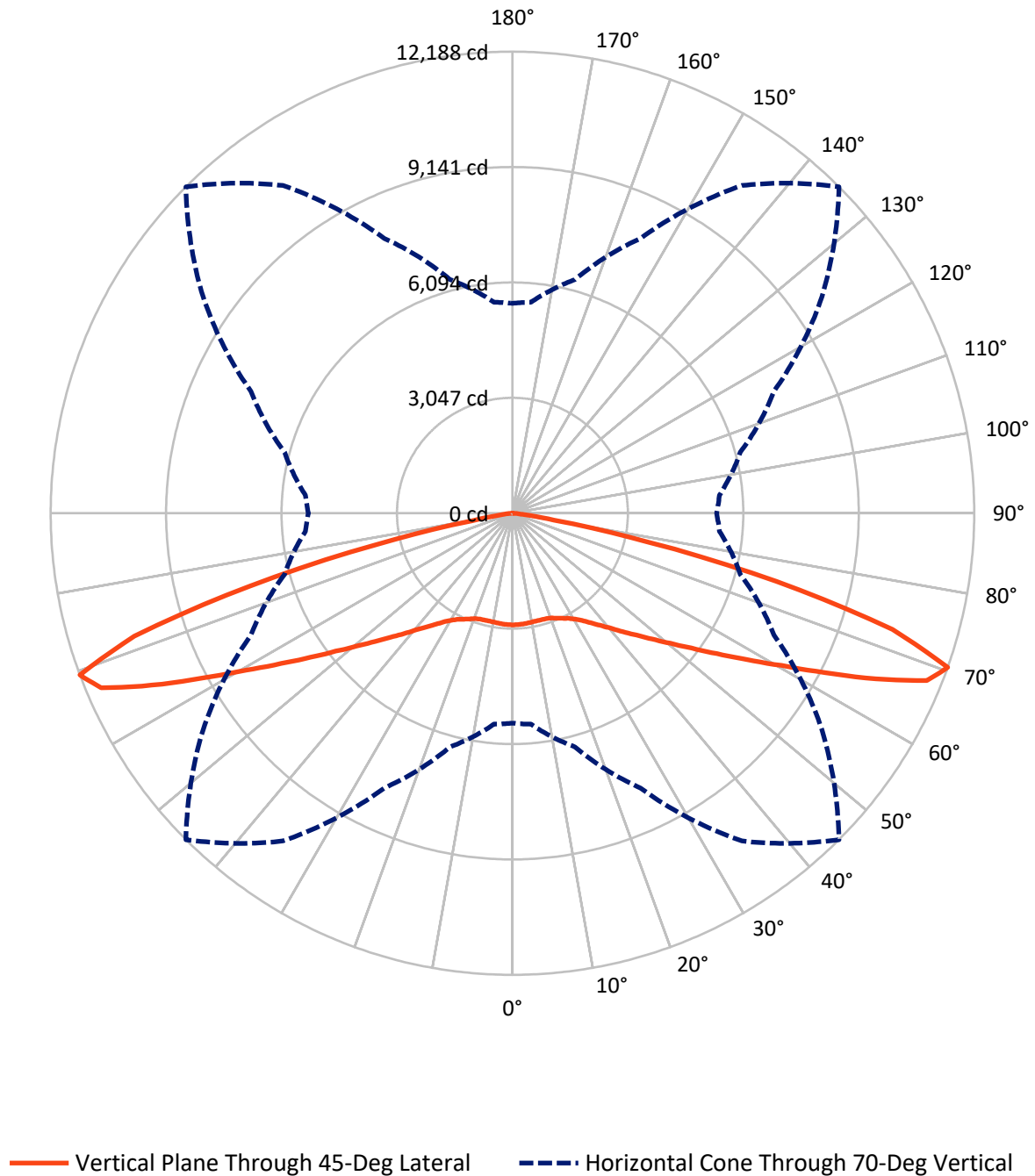
Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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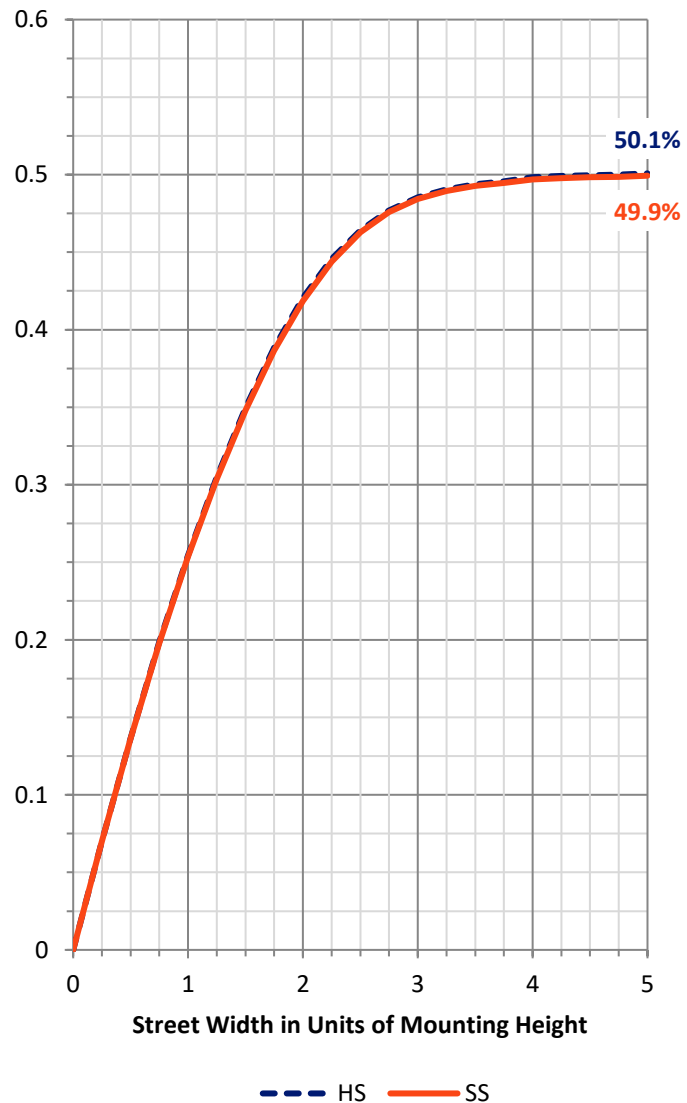
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13273.5	0.0	13273.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13273.5	0.0	13273.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26547.0	0.0	26547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	1.1
10°-20°	820.3	3.1
20°-30°	1403.0	5.3
30°-40°	2226.8	8.4
40°-50°	3592.5	13.5
50°-60°	5845.0	22.0
60°-70°	8473.2	31.9
70°-80°	3758.4	14.2
80°-90°	148.2	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°	26547.0	100.0
0°-180°	26547.0	100.0

Coefficient of Utilization



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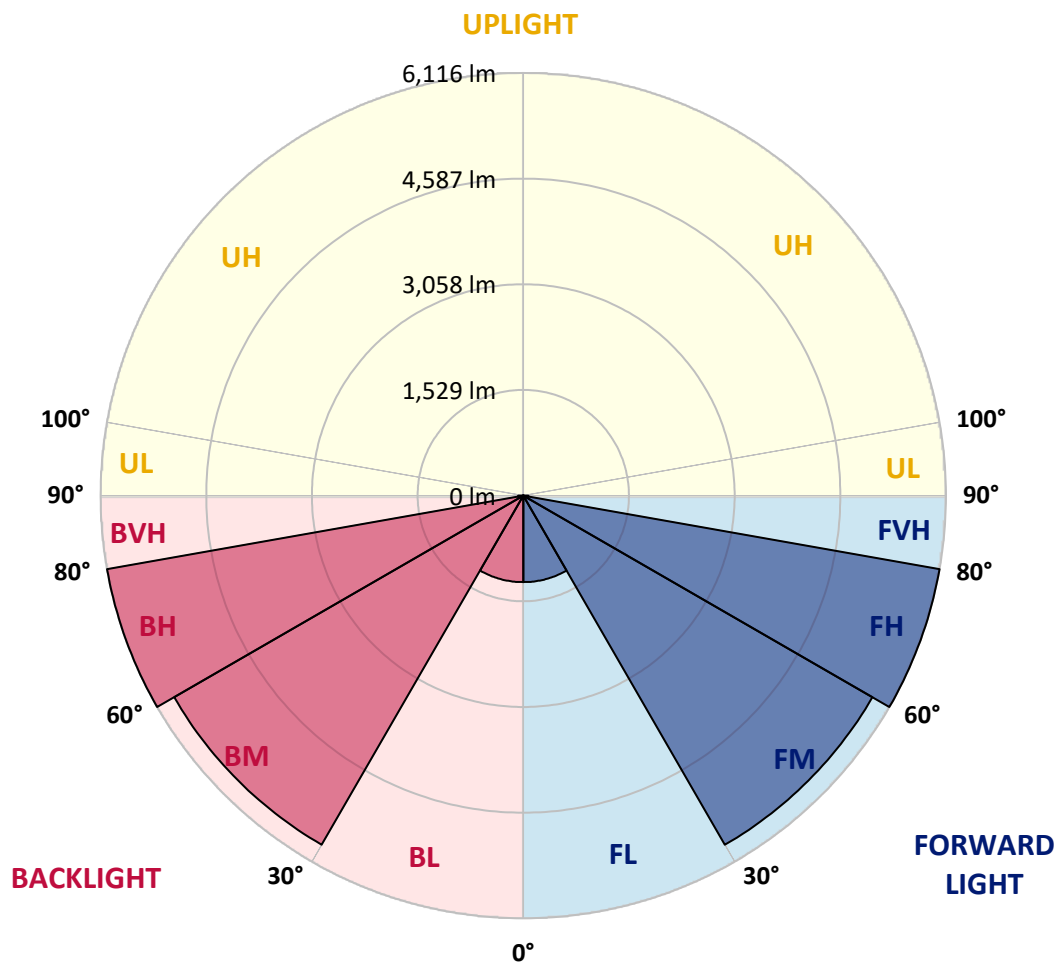
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1251.4	4.7			
FM	(30°-60°)	5832.2	22.0			
FH	(60°-80°)	6115.8	23.0			G3/7500
FVH	(80°-90°)	74.1	0.3			G1/100
BL	(0°-30°)	1251.4	4.7	B3/2500		
BM	(30°-60°)	5832.2	22.0	B4/8500		
BH	(60°-80°)	6115.8	23.0	B5		G3/7500
BVH	(80°-90°)	74.1	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°	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9
2.5°	2947.9	2950.7	2946.5	2943.7	2942.3	2942.3	2940.9	2942.3	2950.7	2952.1	2947.9
5°	2939.5	2942.3	2940.9	2938.1	2936.7	2936.7	2935.3	2933.9	2940.9	2943.7	2942.3
7.5°	2928.3	2929.7	2928.3	2926.9	2928.3	2926.9	2922.7	2919.9	2925.5	2925.5	2924.1
10°	2908.7	2911.5	2910.1	2911.5	2914.3	2914.3	2908.7	2903.1	2904.5	2901.7	2901.7
12.5°	2885.0	2889.2	2890.6	2896.2	2903.1	2911.5	2899.0	2886.4	2883.6	2882.2	2880.8
15°	2869.6	2873.8	2879.4	2885.0	2897.6	2915.7	2897.6	2878.0	2872.4	2866.8	2864.0
17.5°	2865.4	2871.0	2879.4	2887.8	2904.5	2922.7	2907.3	2887.8	2873.8	2865.4	2862.6
20°	2876.6	2880.8	2893.4	2908.7	2932.5	2950.7	2935.3	2914.3	2893.4	2880.8	2876.6
22.5°	2899.0	2905.9	2921.3	2949.3	2982.9	3009.5	2988.5	2953.5	2919.9	2903.1	2897.6
25°	2947.9	2953.5	2971.7	3009.5	3048.7	3073.8	3051.5	3010.9	2964.7	2942.3	2935.3
27.5°	3022.1	3030.5	3050.1	3094.8	3127.0	3141.0	3125.6	3097.6	3064.0	3040.3	3034.7
30°	3127.0	3136.8	3166.2	3213.7	3234.7	3243.1	3236.1	3217.9	3194.2	3169.0	3163.4
32.5°	3268.3	3273.9	3307.5	3352.3	3371.8	3374.6	3366.3	3357.9	3318.7	3276.7	3273.9
35°	3426.4	3436.2	3476.8	3529.9	3548.1	3549.5	3532.7	3520.2	3474.0	3440.4	3440.4
37.5°	3636.3	3640.5	3679.7	3739.8	3759.4	3753.8	3745.4	3734.2	3685.2	3641.9	3643.3
40°	3882.5	3890.9	3924.5	3994.5	3994.5	3987.5	3993.1	3984.7	3935.7	3893.7	3895.1
42.5°	4174.9	4179.1	4219.7	4293.9	4288.3	4274.3	4279.9	4268.7	4237.9	4190.3	4173.5
45°	4486.9	4503.7	4573.7	4645.0	4633.8	4589.1	4611.5	4608.7	4580.7	4509.3	4513.5
47.5°	4863.3	4891.3	4958.4	5043.8	5031.2	4961.2	4986.4	5003.2	4964.0	4885.7	4871.7
50°	5287.2	5305.4	5404.8	5484.5	5473.3	5399.2	5456.5	5459.3	5361.4	5250.8	5250.8
52.5°	5739.1	5757.3	5891.6	6016.2	6023.2	5915.4	5961.6	5958.8	5799.3	5653.8	5625.8
55°	6245.6	6254.0	6427.5	6610.8	6650.0	6545.0	6550.6	6494.7	6287.6	6118.3	6102.9
57.5°	6768.9	6799.7	6991.3	7229.2	7345.3	7281.0	7251.6	7101.9	6901.8	6707.3	6697.5
60°	7348.1	7349.5	7598.6	7879.8	8114.8	8158.2	8037.9	7837.8	7579.0	7321.5	7310.3
62.5°	7749.7	7809.8	8124.6	8600.3	9021.4	9264.9	8947.3	8527.6	8018.3	7602.7	7560.8
65°	7832.2	7872.8	8352.7	9158.6	10019.0	10543.7	9809.1	8916.5	8047.7	7493.6	7465.6
67.5°	7164.8	7208.2	7854.6	9091.4	10718.6	11794.5	10368.8	8729.0	7549.6	6864.0	6809.5
70°	5541.9	5590.8	6389.7	8002.9	10563.3	12187.6	9970.0	7613.9	6226.0	5485.9	5386.6
72.5°	2946.5	3127.0	3809.8	5492.9	8573.7	10493.3	8175.0	5555.9	4015.4	3282.3	3150.8
75°	1075.9	1098.3	1478.9	2435.8	4987.8	7195.6	5179.5	2649.9	1523.6	1176.6	1116.5
77.5°	444.9	443.5	486.9	735.9	1811.8	3685.2	2021.7	777.9	485.5	449.1	443.5
80°	263.0	263.0	289.6	306.4	477.1	1112.3	533.1	347.0	291.0	265.8	270.0
82.5°	117.5	124.5	183.3	193.1	230.9	305.0	257.4	221.1	190.3	131.5	118.9
85°	64.4	56.0	96.5	100.7	110.5	113.3	121.7	120.3	110.5	64.4	65.8
87.5°	12.6	15.4	28.0	21.0	23.8	21.0	28.0	39.2	40.6	22.4	18.2
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)