

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: P456862

Luminaire Tested: **GALN-SA8A-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456862
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-SA8A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30712 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 244
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

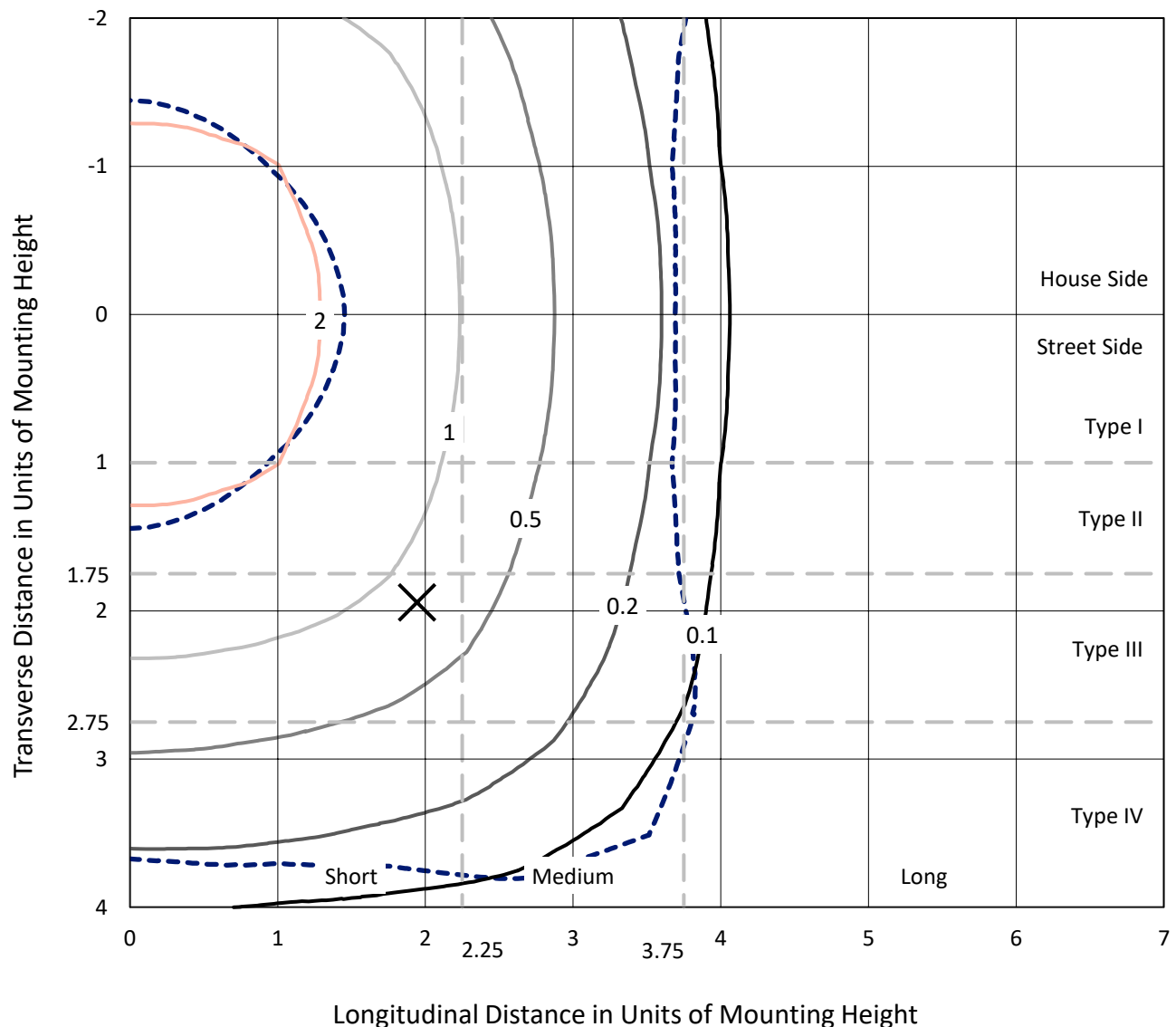


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

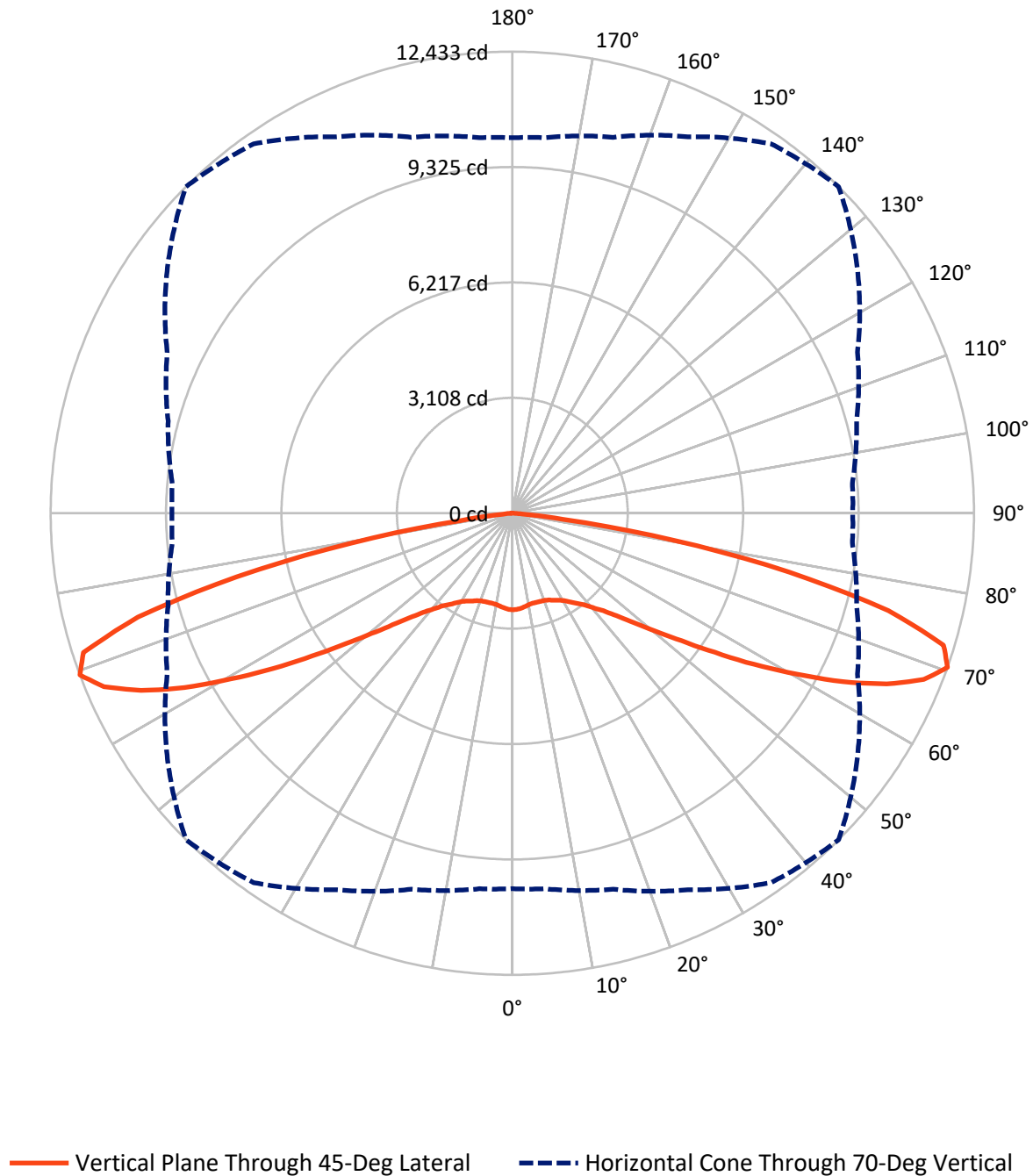


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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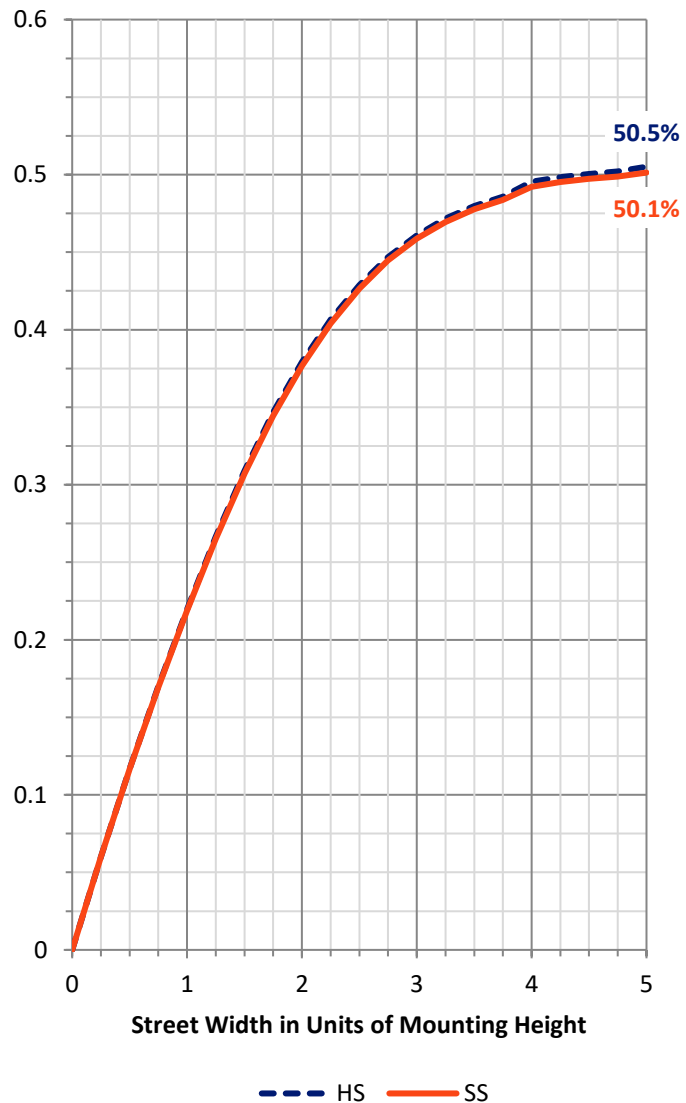
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15356.0	0.0	15356.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15356.0	0.0	15356.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30712.0	0.0	30712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	0.8
10°-20°	711.9	2.3
20°-30°	1212.9	3.9
30°-40°	1879.9	6.1
40°-50°	3164.2	10.3
50°-60°	5757.1	18.7
60°-70°	9746.6	31.7
70°-80°	7544.2	24.6
80°-90°	452.1	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°	30712.0	100.0
0°-180°	30712.0	100.0

Coefficient of Utilization



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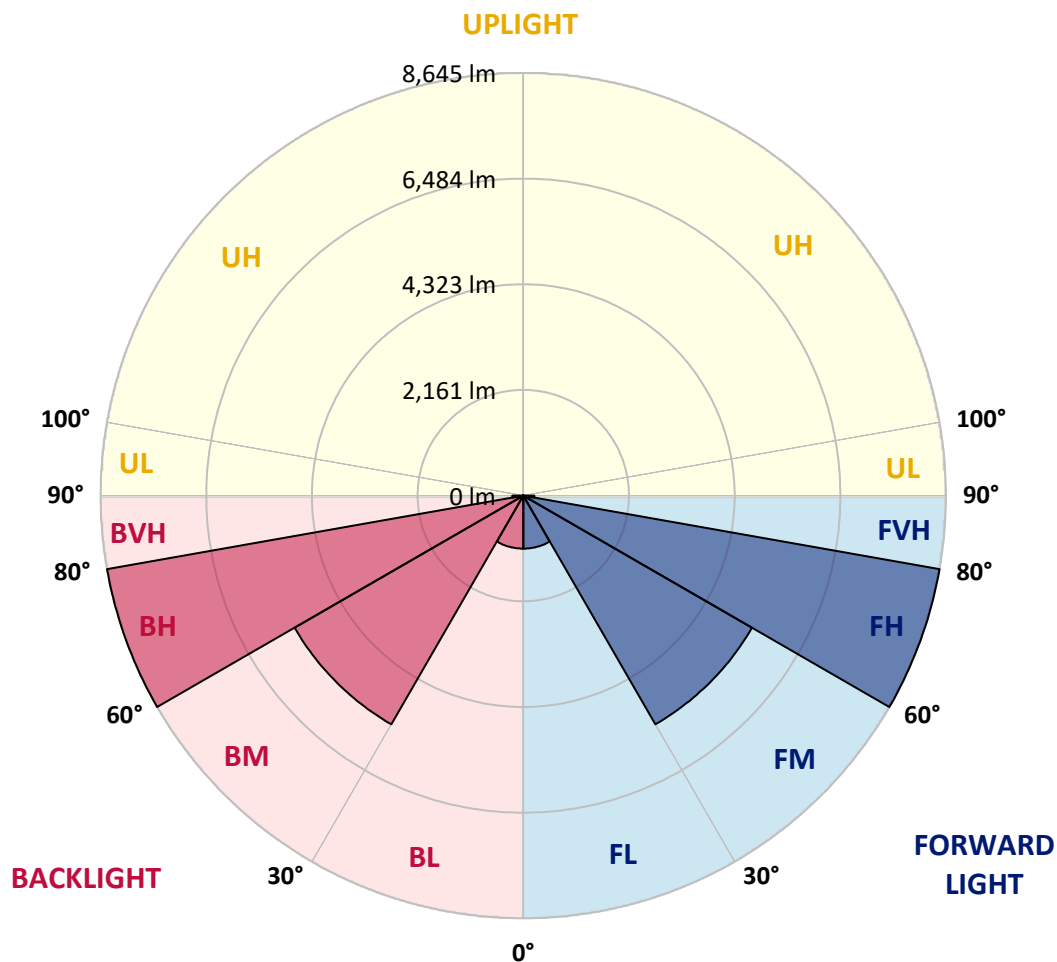
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.0	3.5			
FM	(30°-60°)	5400.6	17.6			
FH	(60°-80°)	8645.4	28.1			G4/12000
FVH	(80°-90°)	226.0	0.7			G3/500
BL	(0°-30°)	1084.0	3.5	B3/2500		
BM	(30°-60°)	5400.6	17.6	B4/8500		
BH	(60°-80°)	8645.4	28.1	B5		G4/12000
BVH	(80°-90°)	226.0	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°	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1
2.5°	2593.7	2595.3	2595.3	2592.0	2590.4	2590.4	2588.8	2588.8	2593.7	2595.3	2596.9
5°	2570.9	2570.9	2570.9	2569.3	2566.1	2566.1	2562.8	2562.8	2564.5	2569.3	2566.1
7.5°	2540.1	2543.4	2543.4	2536.9	2532.0	2532.0	2530.4	2532.0	2533.6	2538.5	2536.9
10°	2530.4	2532.0	2523.9	2512.6	2504.4	2499.6	2501.2	2504.4	2512.6	2515.8	2517.4
12.5°	2536.9	2536.9	2522.3	2506.1	2491.5	2485.0	2483.4	2494.7	2509.3	2519.0	2522.3
15°	2545.0	2541.8	2523.9	2502.8	2488.2	2486.6	2485.0	2493.1	2514.2	2533.6	2535.3
17.5°	2549.9	2548.2	2525.5	2499.6	2491.5	2491.5	2489.8	2496.3	2519.0	2543.4	2545.0
20°	2566.1	2561.2	2535.3	2507.7	2501.2	2504.4	2499.6	2507.7	2532.0	2561.2	2567.7
22.5°	2598.5	2593.7	2567.7	2540.1	2536.9	2536.9	2535.3	2543.4	2569.3	2600.1	2605.0
25°	2637.5	2632.6	2608.3	2588.8	2592.0	2598.5	2595.3	2596.9	2618.0	2643.9	2652.1
27.5°	2689.4	2681.2	2660.2	2643.9	2653.7	2653.7	2653.7	2652.1	2665.0	2689.4	2697.5
30°	2752.6	2749.4	2726.7	2725.0	2733.2	2725.0	2725.0	2726.7	2728.3	2751.0	2759.1
32.5°	2835.3	2828.9	2817.5	2814.3	2837.0	2843.5	2820.7	2799.7	2811.0	2833.7	2838.6
35°	2971.6	2961.9	2945.6	2927.8	2945.6	2976.5	2927.8	2911.6	2940.8	2971.6	2974.8
37.5°	3156.5	3151.6	3125.7	3093.3	3091.6	3124.1	3073.8	3072.2	3127.3	3164.6	3169.5
40°	3388.5	3393.3	3360.9	3330.1	3313.8	3339.8	3300.9	3315.5	3369.0	3411.2	3407.9
42.5°	3714.5	3696.7	3646.4	3617.2	3599.3	3589.6	3579.9	3602.6	3662.6	3708.0	3743.7
45°	4095.7	4089.2	4025.9	3990.2	3951.3	3936.7	3933.5	3974.0	4047.0	4102.2	4107.0
47.5°	4527.1	4512.5	4472.0	4434.7	4420.1	4402.2	4386.0	4416.8	4489.8	4528.8	4540.1
50°	4971.6	4974.8	4974.8	4968.3	4982.9	4986.2	4942.4	4953.7	4994.3	4991.0	4987.8
52.5°	5479.3	5497.1	5581.5	5589.6	5659.3	5706.4	5626.9	5579.9	5565.3	5477.7	5484.2
55°	6076.2	6092.4	6218.9	6345.5	6533.6	6613.1	6446.0	6300.0	6196.2	6063.2	6069.7
57.5°	6820.7	6828.8	6948.9	7192.2	7490.6	7677.2	7383.6	7094.8	6884.0	6757.5	6707.2
60°	7622.0	7630.1	7805.3	8102.1	8566.0	8793.1	8429.8	7957.8	7691.8	7498.7	7511.7
62.5°	8583.9	8616.3	8773.7	9182.4	9745.3	9999.9	9518.2	8887.2	8527.1	8287.1	8296.8
65°	9613.9	9669.0	9841.0	10290.3	10809.3	11083.5	10493.0	9764.7	9317.1	9023.5	9054.3
67.5°	10282.2	10330.8	10579.0	11075.4	11722.6	11949.6	11187.3	10338.9	9779.3	9429.0	9364.1
70°	10111.9	10152.4	10483.3	11187.3	12145.9	12433.0	11352.7	10254.6	9596.1	9192.2	9166.2
72.5°	8926.1	8841.8	9325.2	10335.7	11662.5	12144.3	10832.1	9365.7	8536.9	8121.6	8072.9
75°	5915.6	6098.9	6812.6	8003.2	9866.9	10463.8	9245.7	7519.8	6476.8	6131.4	6077.8
77.5°	1977.3	2118.4	2752.6	4536.9	6726.6	7623.6	6736.4	4918.1	3479.3	2802.9	2815.9
80°	523.9	517.4	669.9	1247.4	2906.7	4415.2	3383.6	1665.8	911.6	660.2	626.1
82.5°	188.2	210.9	270.9	345.5	770.5	1372.3	968.4	467.2	342.3	253.0	244.9
85°	82.7	81.1	116.8	137.9	193.0	256.3	227.1	197.9	173.6	115.2	107.1
87.5°	17.8	17.8	27.6	21.1	34.1	34.1	42.2	50.3	51.9	34.1	27.6
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)