

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: P454542

Luminaire Tested: **GALN-SA5C-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454542
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-SA5C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29281 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 269
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

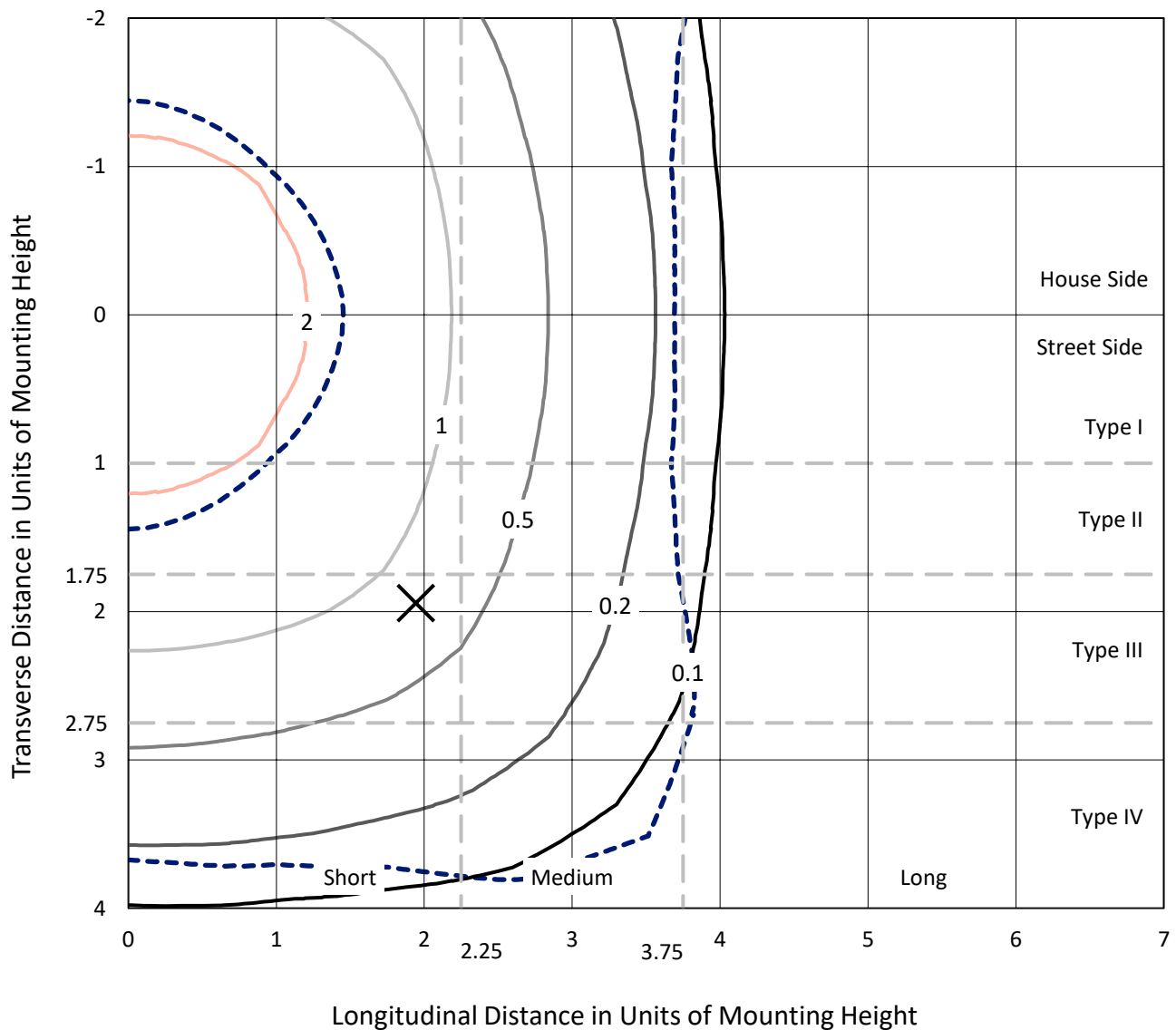


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



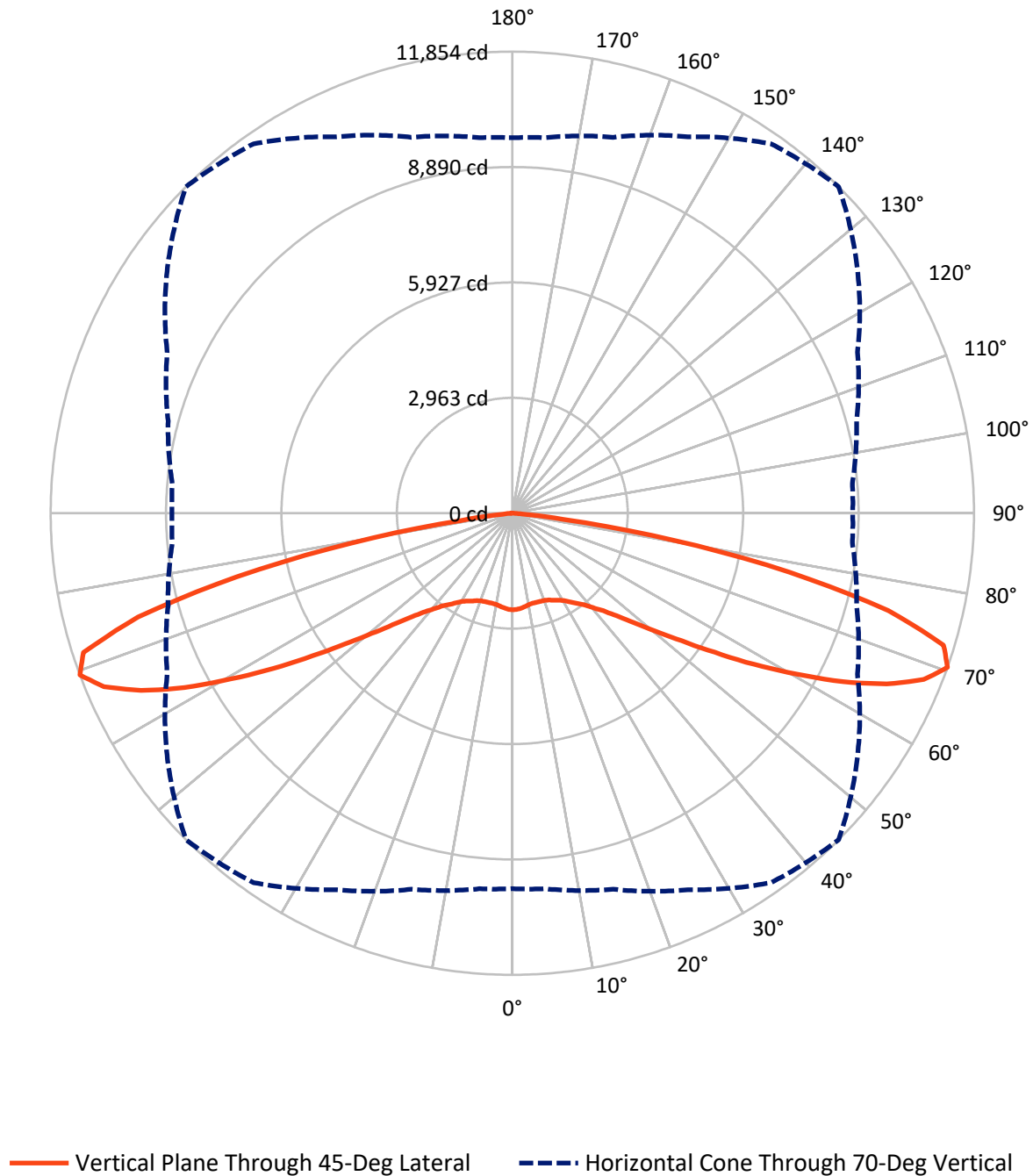
Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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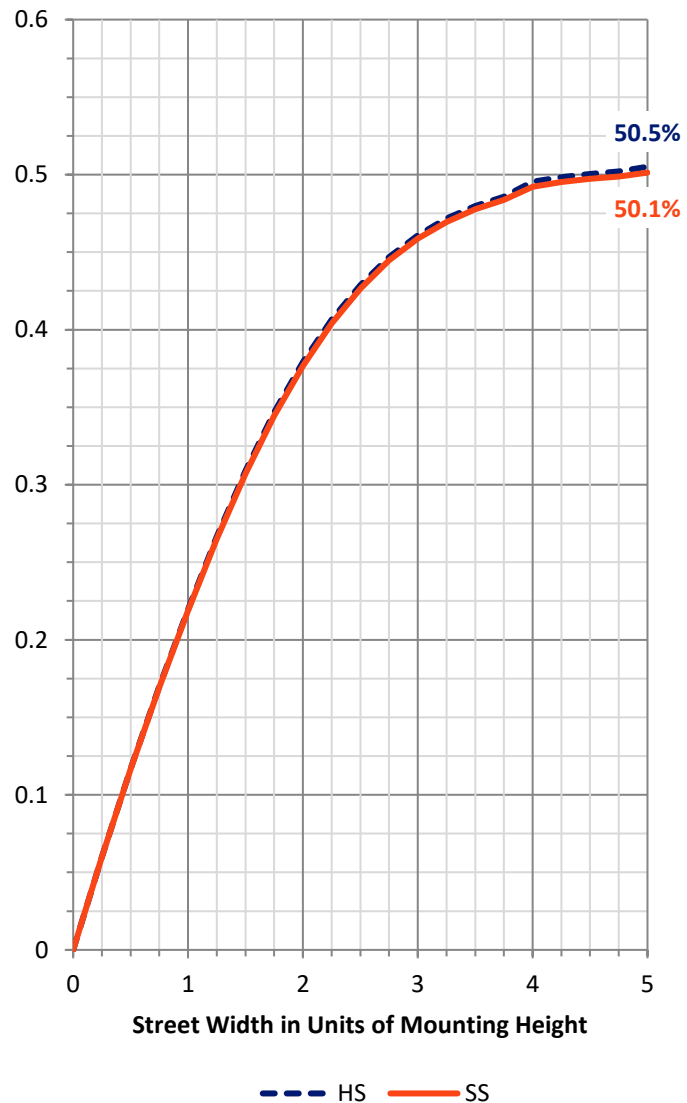
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14640.5	0.0	14640.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14640.5	0.0	14640.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29281.0	0.0	29281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	0.8
10°-20°	678.7	2.3
20°-30°	1156.4	3.9
30°-40°	1792.3	6.1
40°-50°	3016.7	10.3
50°-60°	5488.8	18.7
60°-70°	9292.5	31.7
70°-80°	7192.7	24.6
80°-90°	431.0	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°	29281.0	100.0
0°-180°	29281.0	100.0

Coefficient of Utilization



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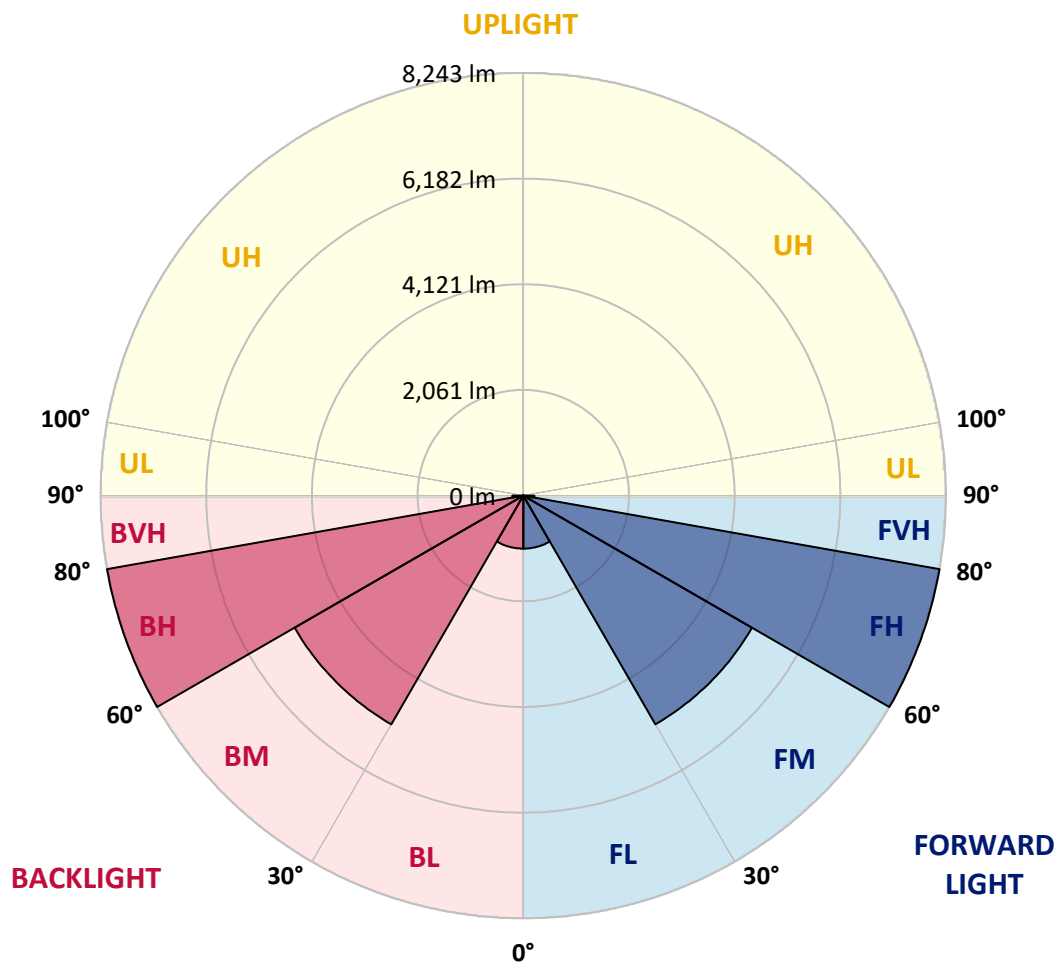
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1033.4	3.5			
FM	(30°-60°)	5149.0	17.6			
FH	(60°-80°)	8242.6	28.1			G4/12000
FVH	(80°-90°)	215.5	0.7			G2/225
BL	(0°-30°)	1033.4	3.5	B3/2500		
BM	(30°-60°)	5149.0	17.6	B4/8500		
BH	(60°-80°)	8242.6	28.1	B5		G4/12000
BVH	(80°-90°)	215.5	0.7			G2/225
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°	2479.0	2479.0	2479.0	2479.0	2479.0	2479.0	2479.0	2479.0	2479.0	2479.0	2479.0
2.5°	2472.8	2474.4	2474.4	2471.3	2469.7	2469.7	2468.2	2468.2	2472.8	2474.4	2475.9
5°	2451.2	2451.2	2451.2	2449.6	2446.5	2446.5	2443.4	2443.4	2445.0	2449.6	2446.5
7.5°	2421.8	2424.9	2424.9	2418.7	2414.0	2414.0	2412.5	2414.0	2415.6	2420.2	2418.7
10°	2412.5	2414.0	2406.3	2395.5	2387.8	2383.1	2384.7	2387.8	2395.5	2398.6	2400.1
12.5°	2418.7	2418.7	2404.8	2389.3	2375.4	2369.2	2367.6	2378.5	2392.4	2401.7	2404.8
15°	2426.4	2423.3	2406.3	2386.2	2372.3	2370.7	2369.2	2376.9	2397.0	2415.6	2417.1
17.5°	2431.1	2429.5	2407.9	2383.1	2375.4	2375.4	2373.8	2380.0	2401.7	2424.9	2426.4
20°	2446.5	2441.9	2417.1	2390.8	2384.7	2387.8	2383.1	2390.8	2414.0	2441.9	2448.1
22.5°	2477.4	2472.8	2448.1	2421.8	2418.7	2418.7	2417.1	2424.9	2449.6	2479.0	2483.6
25°	2514.6	2509.9	2486.7	2468.2	2471.3	2477.4	2474.4	2475.9	2496.0	2520.7	2528.5
27.5°	2564.1	2556.3	2536.2	2520.7	2530.0	2530.0	2530.0	2528.5	2540.9	2564.1	2571.8
30°	2624.4	2621.3	2599.6	2598.1	2605.8	2598.1	2598.1	2599.6	2601.2	2622.8	2630.5
32.5°	2703.2	2697.0	2686.2	2683.1	2704.8	2711.0	2689.3	2669.2	2680.0	2701.7	2706.3
35°	2833.1	2823.9	2808.4	2791.4	2808.4	2837.8	2791.4	2775.9	2803.8	2833.1	2836.2
37.5°	3009.4	3004.8	2980.1	2949.1	2947.6	2978.5	2930.6	2929.0	2981.6	3017.2	3021.8
40°	3230.6	3235.2	3204.3	3174.9	3159.4	3184.2	3147.1	3161.0	3212.0	3252.2	3249.1
42.5°	3541.4	3524.4	3476.5	3448.6	3431.6	3422.3	3413.1	3434.7	3491.9	3535.2	3569.3
45°	3904.8	3898.7	3838.3	3804.3	3767.2	3753.3	3750.2	3788.9	3858.4	3911.0	3915.7
47.5°	4316.2	4302.3	4263.6	4228.1	4214.1	4197.1	4181.7	4211.0	4280.6	4317.8	4328.6
50°	4739.9	4743.0	4743.0	4736.8	4750.8	4753.9	4712.1	4722.9	4761.6	4758.5	4755.4
52.5°	5224.0	5241.0	5321.4	5329.1	5395.6	5440.5	5364.7	5319.9	5305.9	5222.4	5228.6
55°	5793.1	5808.6	5929.2	6049.8	6229.2	6305.0	6145.7	6006.5	5907.5	5780.7	5786.9
57.5°	6502.9	6510.6	6625.1	6857.1	7141.6	7319.5	7039.5	6764.3	6563.2	6442.6	6394.7
60°	7266.9	7274.6	7441.6	7724.6	8166.9	8383.4	8037.0	7587.0	7333.4	7149.3	7161.7
62.5°	8183.9	8214.9	8364.9	8754.6	9291.2	9534.0	9074.7	8473.1	8129.8	7900.9	7910.2
65°	9165.9	9218.5	9382.4	9810.8	10305.7	10567.0	10004.1	9309.8	8882.9	8603.0	8632.4
67.5°	9803.1	9849.5	10086.1	10559.3	11176.4	11392.9	10666.0	9857.2	9323.7	8989.6	8927.8
70°	9640.7	9679.4	9994.9	10666.0	11580.0	11853.7	10823.8	9776.8	9148.9	8763.9	8739.1
72.5°	8510.2	8429.8	8890.7	9854.1	11119.1	11578.4	10327.3	8929.3	8139.1	7743.2	7696.8
75°	5640.0	5814.7	6495.2	7630.3	9407.2	9976.3	8814.9	7169.4	6175.1	5845.7	5794.6
77.5°	1885.1	2019.7	2624.4	4325.5	6413.2	7268.4	6422.5	4688.9	3317.2	2672.3	2684.7
80°	499.5	493.3	638.7	1189.2	2771.3	4209.5	3225.9	1588.2	869.1	629.4	596.9
82.5°	179.4	201.0	258.3	329.4	734.6	1308.3	923.2	445.4	326.3	241.2	233.5
85°	78.9	77.3	111.3	131.5	184.0	244.3	216.5	188.7	165.5	109.8	102.1
87.5°	17.0	17.0	26.3	20.1	32.5	32.5	40.2	47.9	49.5	32.5	26.3
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)