

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: STREETWORKS

Report Number: P381058

Luminaire Tested: **USSL-XL-PA4A-730-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA4A-730-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31947 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 245
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: 28.75 FT

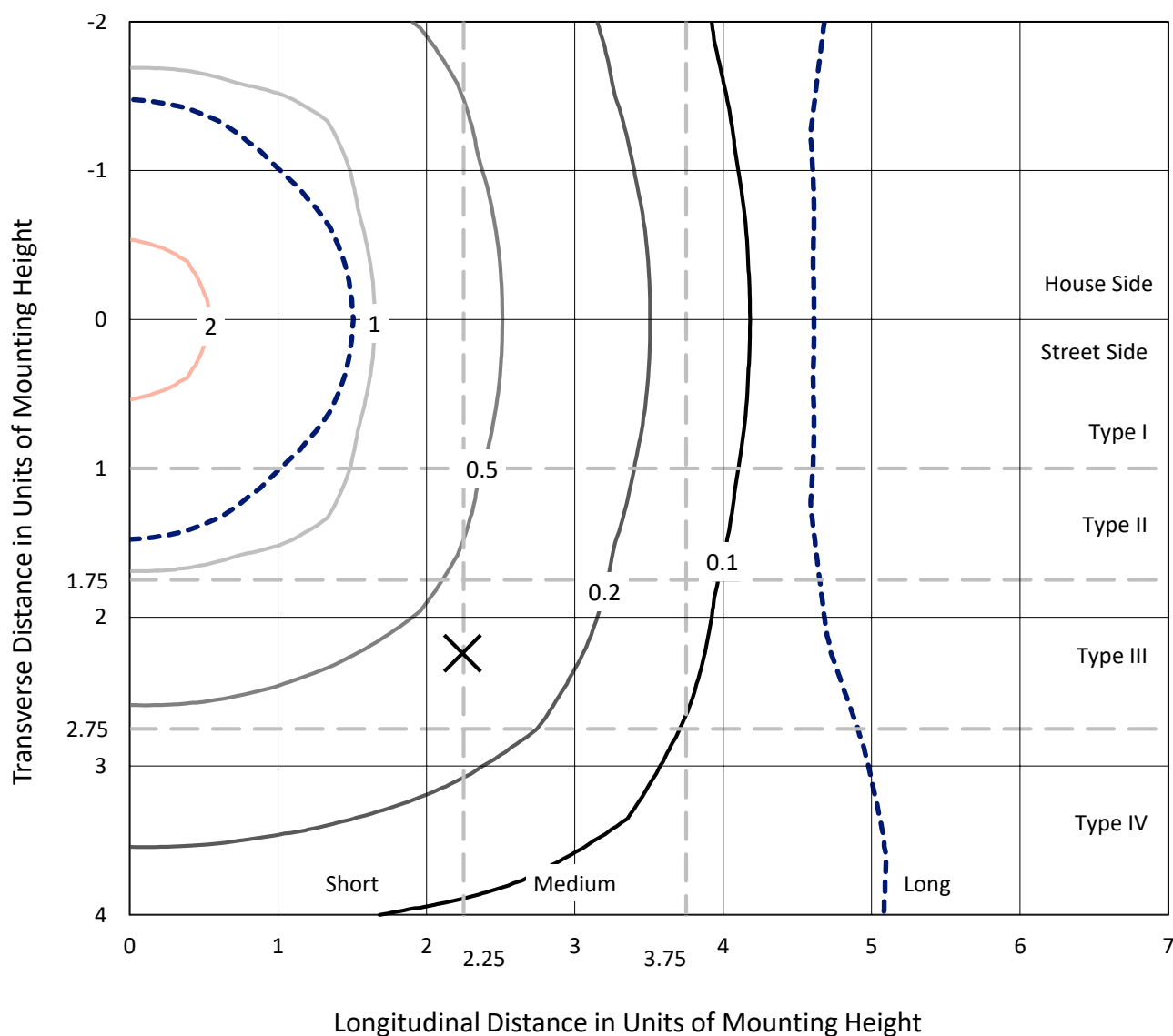


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

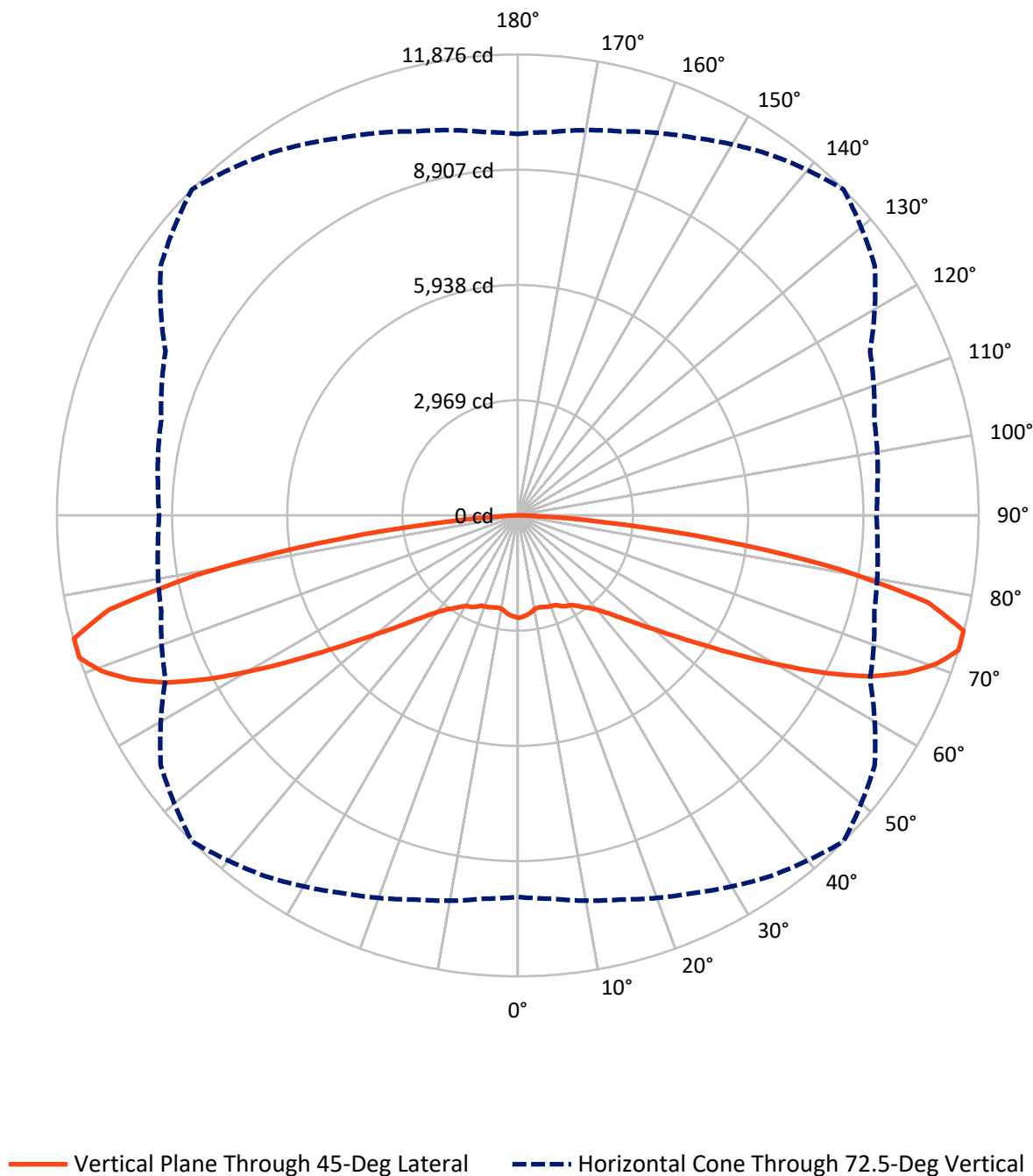


Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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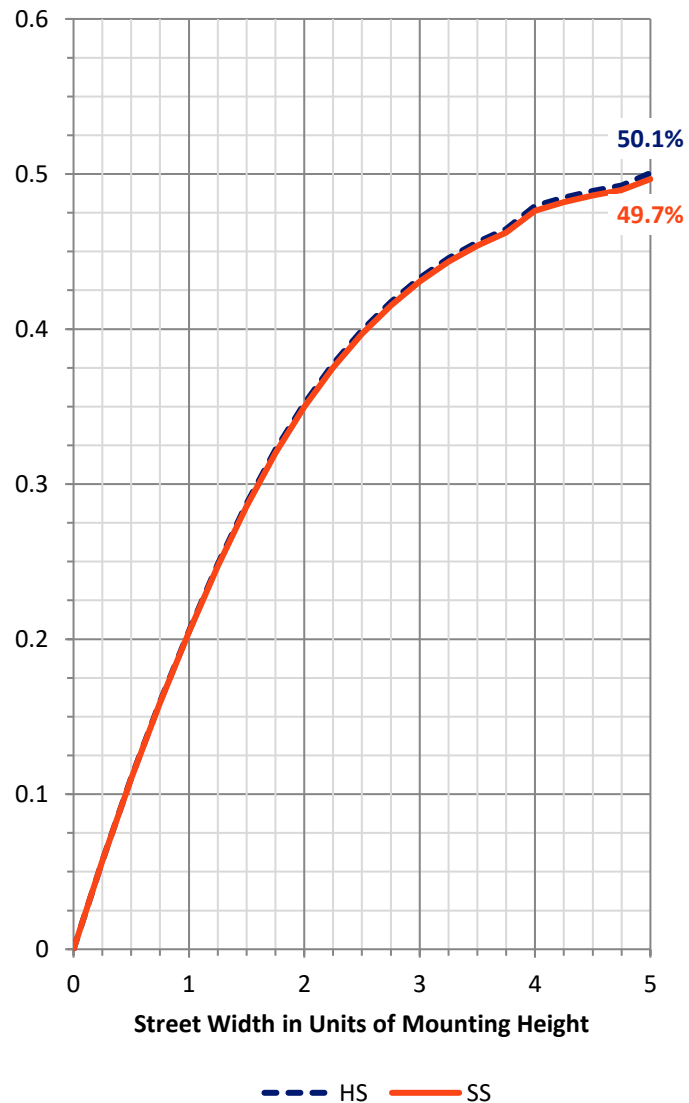
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15973.5	0.0	15973.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15973.5	0.0	15973.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31947.0	0.0	31947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	0.8
10°-20°	703.7	2.2
20°-30°	1195.6	3.7
30°-40°	1823.7	5.7
40°-50°	3002.9	9.4
50°-60°	5243.9	16.4
60°-70°	8791.5	27.5
70°-80°	9408.7	29.5
80°-90°	1534.6	4.8
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°	31947.0	100.0
0°-180°	31947.0	100.0

Coefficient of Utilization



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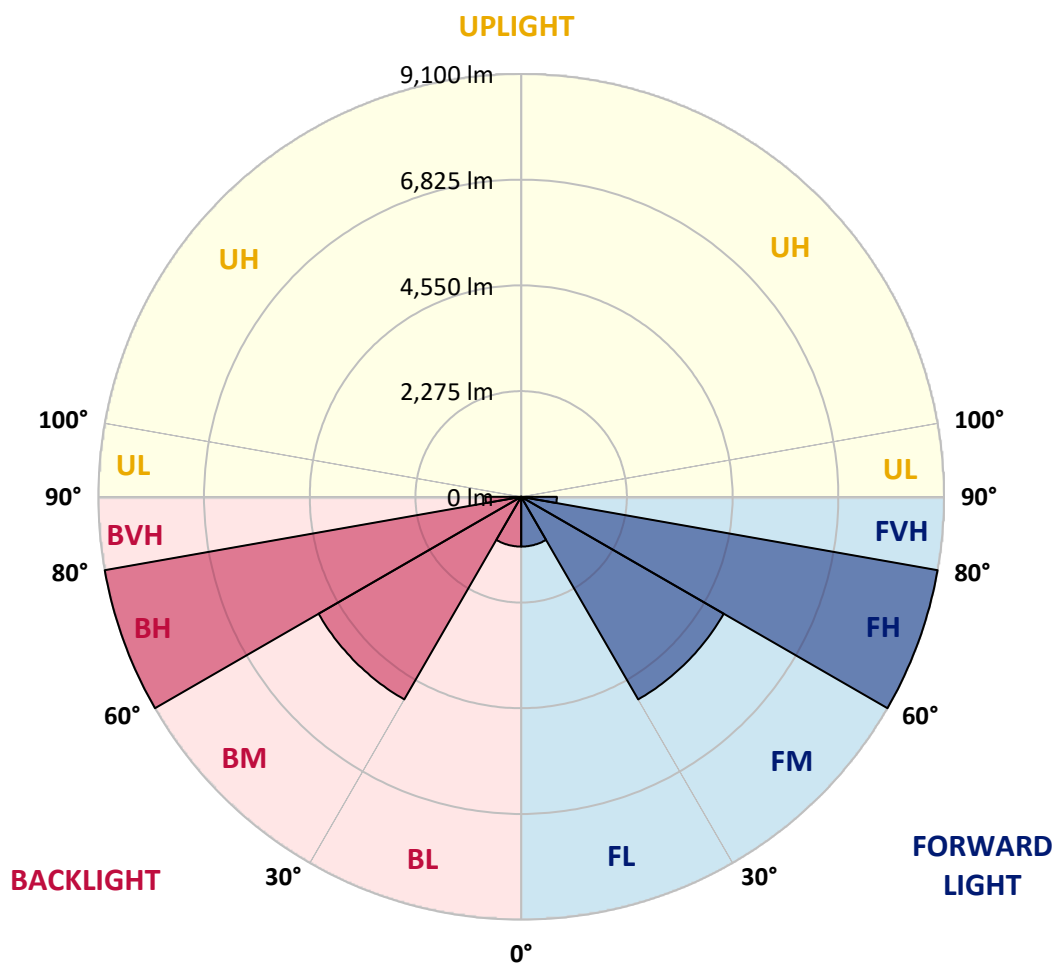
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.9	3.4			
FM	(30°-60°)	5035.2	15.8			
FH	(60°-80°)	9100.1	28.5			G4/12000
FVH	(80°-90°)	767.3	2.4			G5
BL	(0°-30°)	1070.9	3.4	B3/2500		
BM	(30°-60°)	5035.2	15.8	B4/8500		
BH	(60°-80°)	9100.1	28.5	B5		G4/12000
BVH	(80°-90°)	767.3	2.4			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6	2643.6
2.5°	2627.3	2627.3	2627.3	2623.3	2615.1	2611.0	2602.9	2606.9	2606.9	2606.9	2606.9
5°	2594.7	2594.7	2590.6	2586.5	2578.4	2574.3	2566.1	2574.3	2574.3	2574.3	2574.3
7.5°	2533.5	2537.6	2537.6	2533.5	2521.3	2517.2	2504.9	2509.0	2509.0	2513.1	2509.0
10°	2500.9	2500.9	2496.8	2476.4	2456.0	2447.8	2443.7	2456.0	2468.2	2480.5	2480.5
12.5°	2500.9	2500.9	2492.7	2460.1	2431.5	2431.5	2431.5	2447.8	2472.3	2496.8	2500.9
15°	2513.1	2513.1	2496.8	2460.1	2443.7	2447.8	2447.8	2464.1	2492.7	2525.3	2529.4
17.5°	2521.3	2521.3	2500.9	2464.1	2464.1	2476.4	2468.2	2480.5	2509.0	2545.7	2549.8
20°	2533.5	2533.5	2504.9	2476.4	2476.4	2488.6	2488.6	2500.9	2525.3	2562.1	2566.1
22.5°	2558.0	2553.9	2525.3	2500.9	2500.9	2509.0	2517.2	2533.5	2553.9	2586.5	2594.7
25°	2586.5	2586.5	2562.1	2558.0	2566.1	2586.5	2582.5	2578.4	2586.5	2615.1	2627.3
27.5°	2602.9	2602.9	2586.5	2598.8	2631.4	2647.7	2627.3	2611.0	2611.0	2639.6	2643.6
30°	2655.9	2651.8	2635.5	2643.6	2672.2	2680.4	2668.1	2647.7	2660.0	2692.6	2696.7
32.5°	2745.6	2745.6	2721.2	2721.2	2741.6	2774.2	2733.4	2721.2	2737.5	2774.2	2778.3
35°	2884.4	2884.4	2851.7	2835.4	2851.7	2896.6	2835.4	2831.3	2859.9	2900.7	2904.8
37.5°	3059.8	3059.8	3039.4	2998.6	3002.7	3031.2	2978.2	2974.1	3027.1	3072.0	3072.0
40°	3280.1	3292.3	3271.9	3223.0	3206.6	3210.7	3169.9	3174.0	3235.2	3288.2	3288.2
42.5°	3553.4	3561.6	3528.9	3492.2	3471.8	3459.6	3418.8	3427.0	3500.4	3569.7	3569.7
45°	3883.9	3888.0	3855.3	3810.4	3786.0	3777.8	3737.0	3757.4	3839.0	3912.4	3908.4
47.5°	4255.1	4259.2	4226.6	4181.7	4165.4	4177.6	4136.8	4136.8	4210.3	4271.5	4263.3
50°	4675.3	4683.5	4646.8	4626.4	4614.1	4646.8	4597.8	4553.0	4601.9	4663.1	4654.9
52.5°	5140.4	5160.8	5136.4	5144.5	5189.4	5230.2	5148.6	5050.7	5075.2	5116.0	5103.7
55°	5703.4	5727.9	5736.1	5764.6	5882.9	5952.3	5817.7	5654.5	5642.2	5646.3	5625.9
57.5°	6335.8	6352.1	6405.1	6470.4	6715.2	6825.3	6613.2	6331.7	6242.0	6188.9	6176.7
60°	6972.2	7000.8	7131.3	7266.0	7641.3	7841.2	7514.8	7041.6	6849.8	6751.9	6731.5
62.5°	7612.7	7669.8	7882.0	8110.5	8657.1	8955.0	8453.2	7767.8	7490.3	7367.9	7335.3
65°	8355.2	8424.6	8681.6	8971.3	9579.2	9999.4	9391.5	8518.4	8220.6	8057.4	8016.6
67.5°	9224.2	9297.7	9505.7	9828.0	10403.3	10815.3	10276.8	9285.4	8897.8	8689.8	8657.1
70°	9938.2	10003.4	10227.8	10554.2	10982.6	11451.7	10937.7	9897.4	9546.5	9399.6	9379.2
72.5°	9828.0	9913.7	10244.1	10733.7	11345.7	11876.0	11227.4	10015.7	9509.8	9305.8	9240.5
75°	8583.7	8677.5	9069.2	9954.5	11072.3	11863.8	10807.1	9228.3	8632.7	8461.3	8428.7
77.5°	5683.0	5772.8	6433.7	7829.0	9668.9	10811.2	9538.4	7731.0	6772.3	6360.3	6335.8
80°	2296.9	2411.1	3043.5	4524.4	6853.9	8404.2	7074.2	4948.7	3337.2	2692.6	2562.1
82.5°	534.4	636.4	926.1	1668.6	3508.5	5234.3	3814.5	1848.1	1073.0	762.9	685.4
85°	224.4	228.5	395.7	542.6	1097.4	2113.3	1248.4	673.2	546.7	399.8	391.7
87.5°	85.7	89.8	191.7	228.5	350.9	399.8	424.3	346.8	322.3	199.9	191.7
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)