

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: P157631

Luminaire Tested: **VST-E11-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157631
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E11-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (231) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35639.1 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 269.7
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

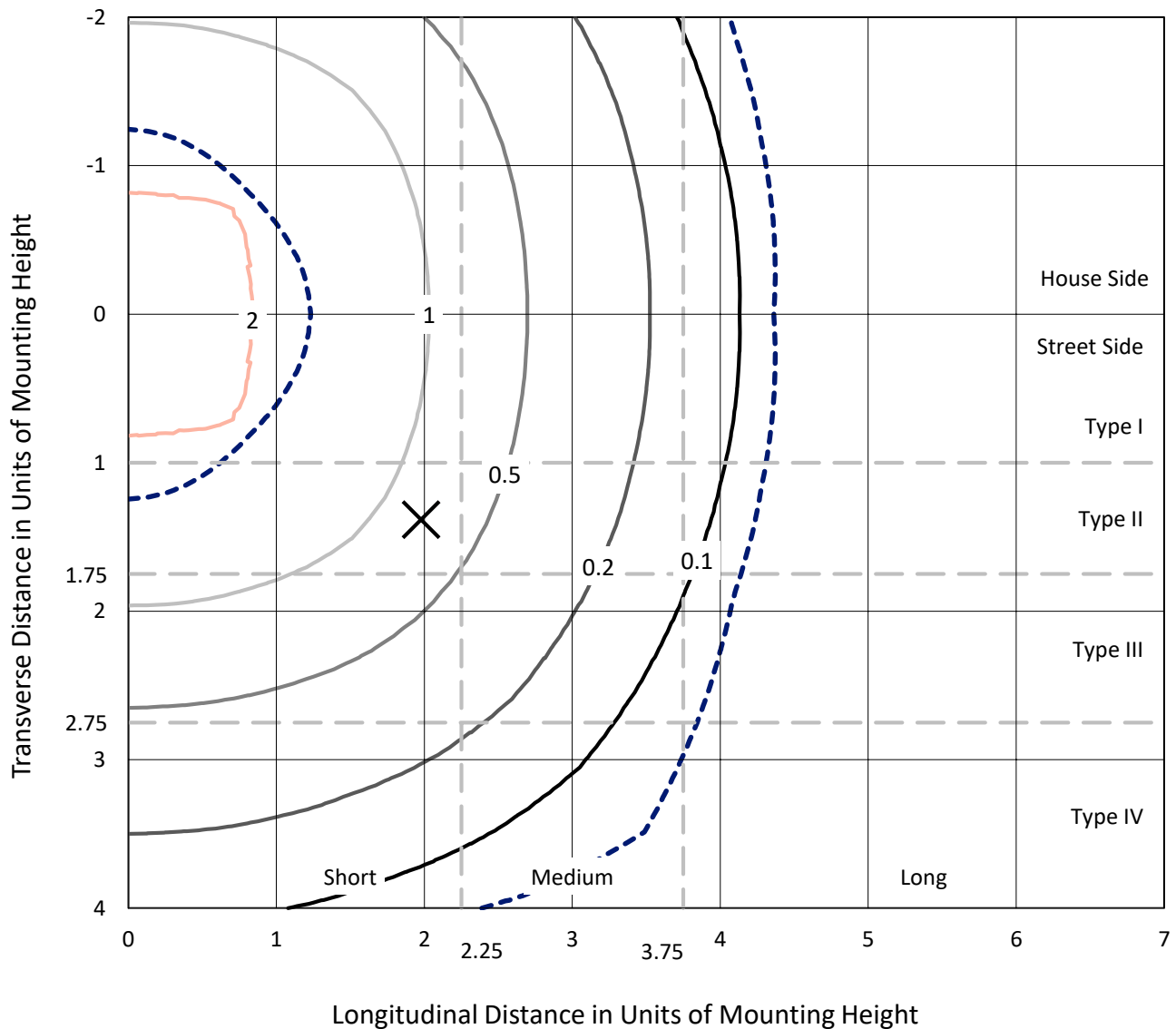


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

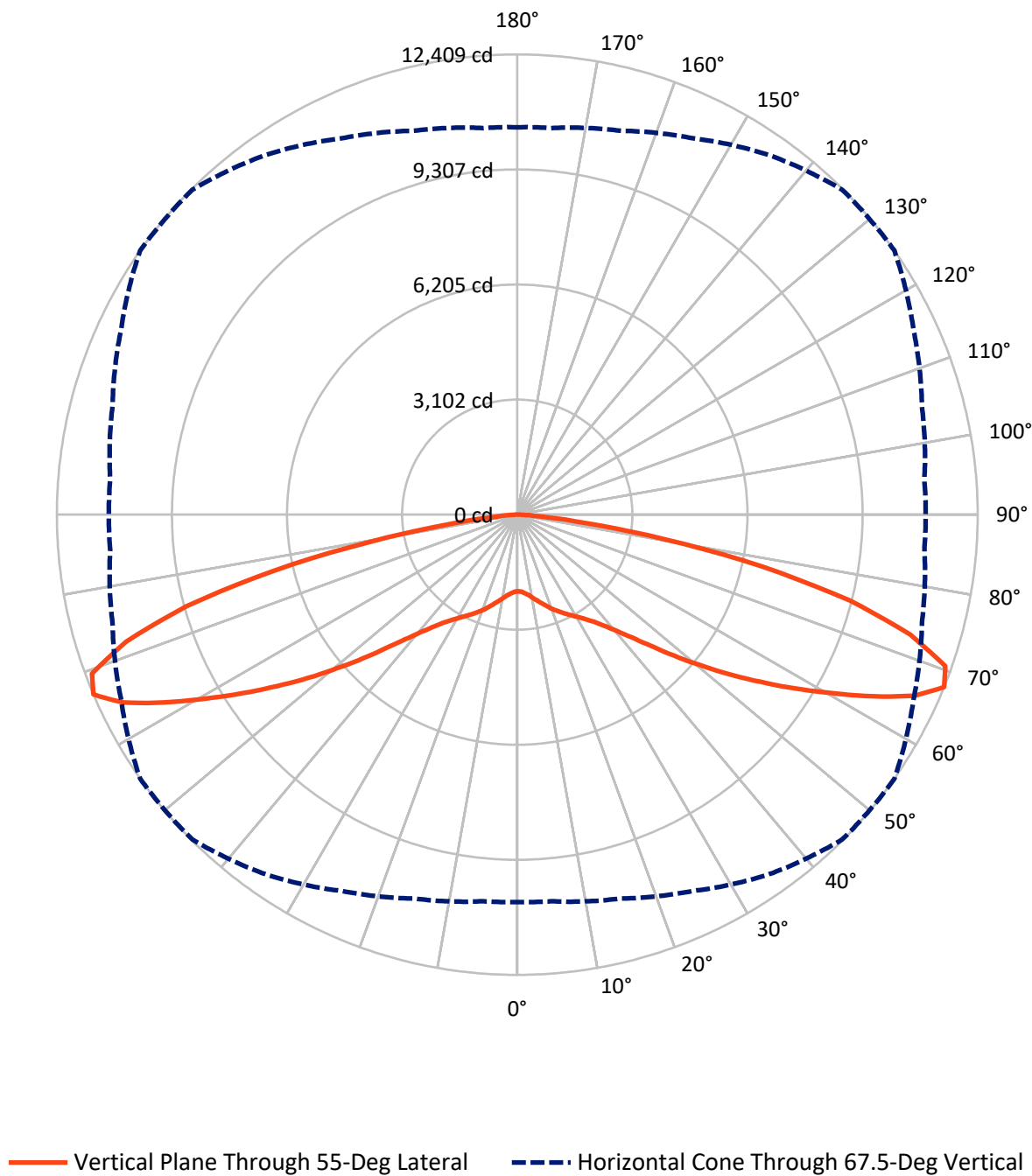


Based on 30 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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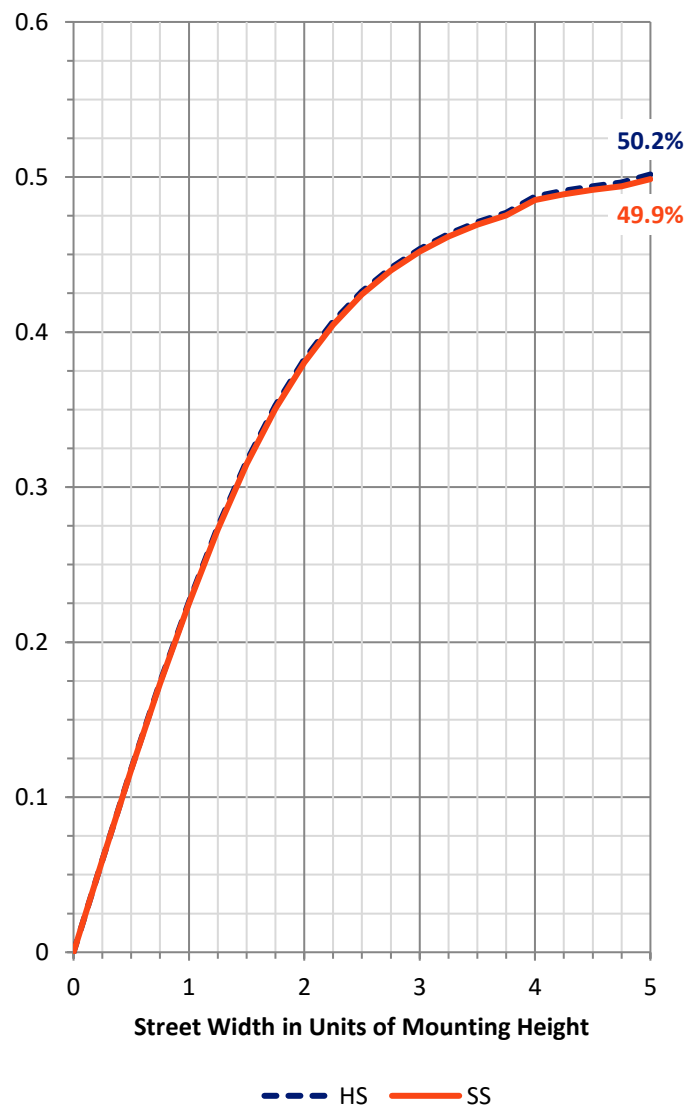
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17819.6	0.0	17819.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17819.6	0.0	17819.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	35639.1	0.0	35639.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	0.6
10°-20°	709.1	2.0
20°-30°	1363.5	3.8
30°-40°	2233.6	6.3
40°-50°	3882.9	10.9
50°-60°	6930.8	19.4
60°-70°	10700.7	30.0
70°-80°	8662.2	24.3
80°-90°	948.9	2.7
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°	35639.1	100.0
0°-180°	35639.1	100.0

Coefficient of Utilization



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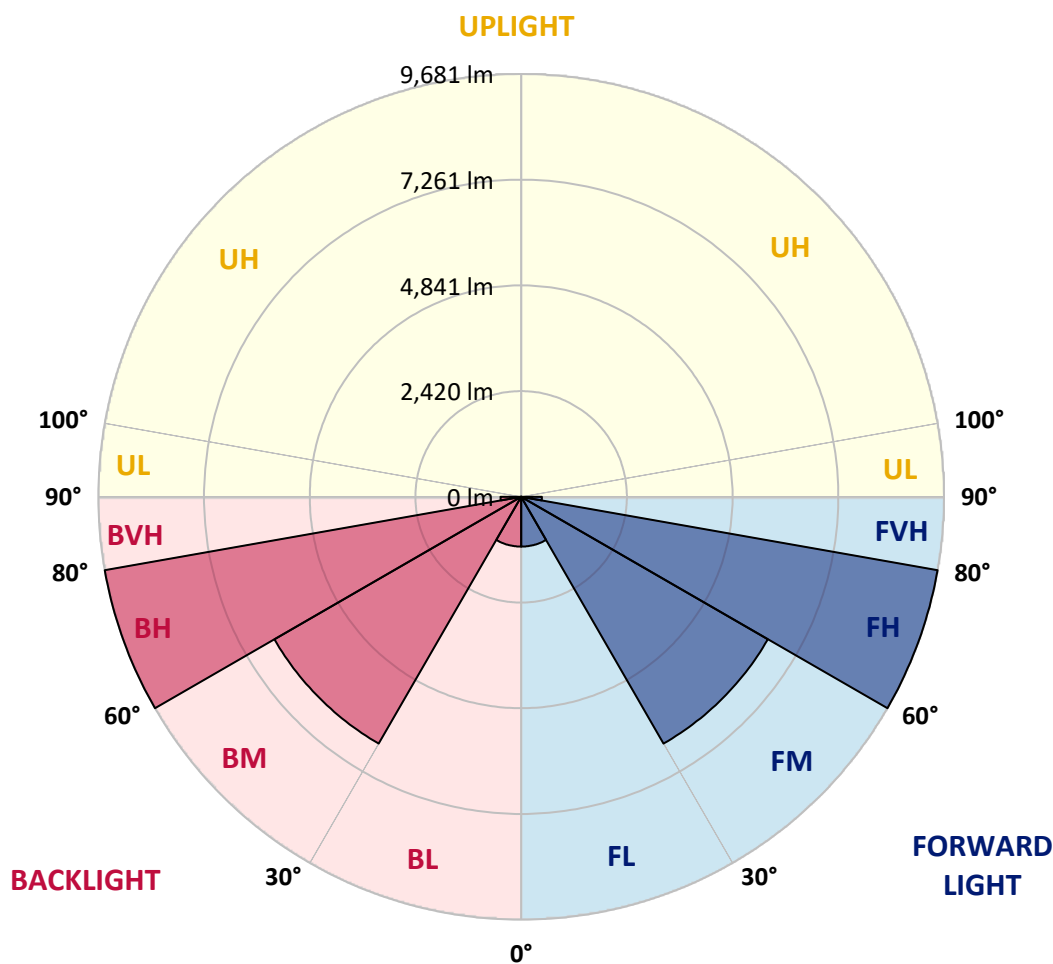
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1140.1	3.2			
FM	(30°-60°)	6523.6	18.3			
FH	(60°-80°)	9681.4	27.2			G4/12000
FVH	(80°-90°)	474.4	1.3			G3/500
BL	(0°-30°)	1140.1	3.2	B3/2500		
BM	(30°-60°)	6523.6	18.3	B4/8500		
BH	(60°-80°)	9681.4	27.2	B5		G4/12000
BVH	(80°-90°)	474.4	1.3			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°	2067.8	2067.8	2067.8	2067.8	2067.8	2067.8	2067.8	2067.8	2067.8	2067.8	2067.8
2.5°	2081.4	2083.6	2081.4	2081.4	2079.1	2079.1	2079.1	2081.4	2081.4	2085.9	2083.6
5°	2124.2	2126.5	2122.0	2126.5	2126.5	2128.8	2126.5	2124.2	2126.5	2128.8	2122.0
7.5°	2185.2	2189.7	2187.5	2189.7	2192.0	2189.7	2189.7	2187.5	2192.0	2189.7	2185.2
10°	2264.2	2268.7	2266.5	2271.0	2273.2	2275.5	2275.5	2271.0	2268.7	2268.7	2266.5
12.5°	2359.0	2359.0	2359.0	2365.8	2370.3	2374.8	2372.6	2368.0	2361.3	2363.5	2354.5
15°	2462.9	2467.4	2467.4	2469.6	2480.9	2483.2	2480.9	2474.1	2471.9	2467.4	2462.9
17.5°	2578.0	2580.2	2582.5	2584.8	2598.3	2605.1	2596.0	2584.8	2584.8	2582.5	2582.5
20°	2697.6	2695.4	2699.9	2704.4	2713.4	2720.2	2717.9	2706.7	2697.6	2704.4	2702.1
22.5°	2808.2	2810.5	2812.8	2819.5	2835.3	2837.6	2830.8	2821.8	2810.5	2812.8	2812.8
25°	2912.1	2914.3	2918.9	2927.9	2945.9	2957.2	2948.2	2934.7	2918.9	2918.9	2921.1
27.5°	3018.2	3020.4	3022.7	3038.5	3061.1	3074.6	3067.9	3045.3	3027.2	3022.7	3015.9
30°	3135.6	3135.6	3140.1	3160.4	3189.8	3205.6	3196.5	3169.4	3142.3	3137.8	3137.8
32.5°	3284.6	3275.5	3282.3	3309.4	3341.0	3359.1	3352.3	3320.7	3286.8	3280.0	3280.0
35°	3462.9	3458.4	3462.9	3494.5	3532.9	3560.0	3544.2	3514.8	3478.7	3471.9	3467.4
37.5°	3675.1	3677.4	3690.9	3727.0	3778.9	3812.8	3797.0	3749.6	3706.7	3706.7	3706.7
40°	3943.7	3948.2	3975.3	4029.5	4104.0	4133.4	4115.3	4056.6	4006.9	3988.9	3993.4
42.5°	4309.4	4307.2	4350.1	4417.8	4505.8	4548.7	4519.4	4456.2	4383.9	4354.6	4356.8
45°	4740.6	4772.2	4817.4	4903.1	5013.8	5088.3	5036.3	4966.4	4858.0	4815.1	4812.8
47.5°	5262.1	5295.9	5352.4	5494.6	5627.8	5718.1	5677.4	5562.3	5406.5	5345.6	5323.0
50°	5855.8	5898.7	5970.9	6153.8	6343.4	6445.0	6372.7	6221.5	6054.4	5961.9	5939.3
52.5°	6524.0	6537.5	6645.9	6867.1	7101.9	7226.0	7144.8	6964.2	6749.7	6663.9	6600.7
55°	7264.4	7275.7	7399.9	7650.4	7916.8	8063.5	7959.7	7731.7	7533.1	7384.1	7397.6
57.5°	7950.7	7984.5	8167.4	8460.9	8774.6	8953.0	8840.1	8598.6	8390.9	8221.6	8241.9
60°	8684.3	8720.5	8912.3	9262.2	9686.6	9923.7	9776.9	9517.3	9302.9	9142.6	9122.3
62.5°	9463.2	9483.5	9693.4	10007.2	10549.0	10930.5	10790.5	10503.8	10253.3	10095.2	10079.4
65°	10183.3	10210.4	10388.7	10731.8	11289.4	11847.0	11768.0	11370.7	11032.1	10804.1	10772.5
67.5°	10445.1	10463.2	10713.8	11194.6	11835.7	12386.5	12409.1	11783.8	11291.7	11014.0	11007.2
70°	10138.1	10151.7	10472.2	11043.4	11860.5	12318.8	12237.5	11610.0	11005.0	10664.1	10630.2
72.5°	9449.6	9451.9	9745.3	10230.7	11050.1	11424.9	11079.5	10734.1	10108.8	9853.7	9786.0
75°	8196.7	8199.0	8402.2	8725.0	9309.6	9655.0	9262.2	8946.2	8578.2	8427.0	8348.0
77.5°	5636.8	5670.7	5880.6	6253.1	6894.2	7275.7	6761.0	6187.6	5964.1	5835.5	5758.7
80°	2713.4	2765.4	3006.9	3374.9	4045.3	4654.8	4020.5	3313.9	2878.2	2523.8	2587.0
82.5°	724.6	733.7	941.3	1352.2	1885.0	2212.3	1796.9	1257.4	792.4	532.8	487.6
85°	191.9	203.2	284.4	390.5	593.7	756.2	577.9	368.0	279.9	207.7	189.6
87.5°	51.9	61.0	99.3	119.6	149.0	119.6	149.0	128.7	124.2	65.5	47.4
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)