

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: P157642

Luminaire Tested: **VST-E12-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157642
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-E12-LED-E-U-5WQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (252) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38879.1 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 291.7
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



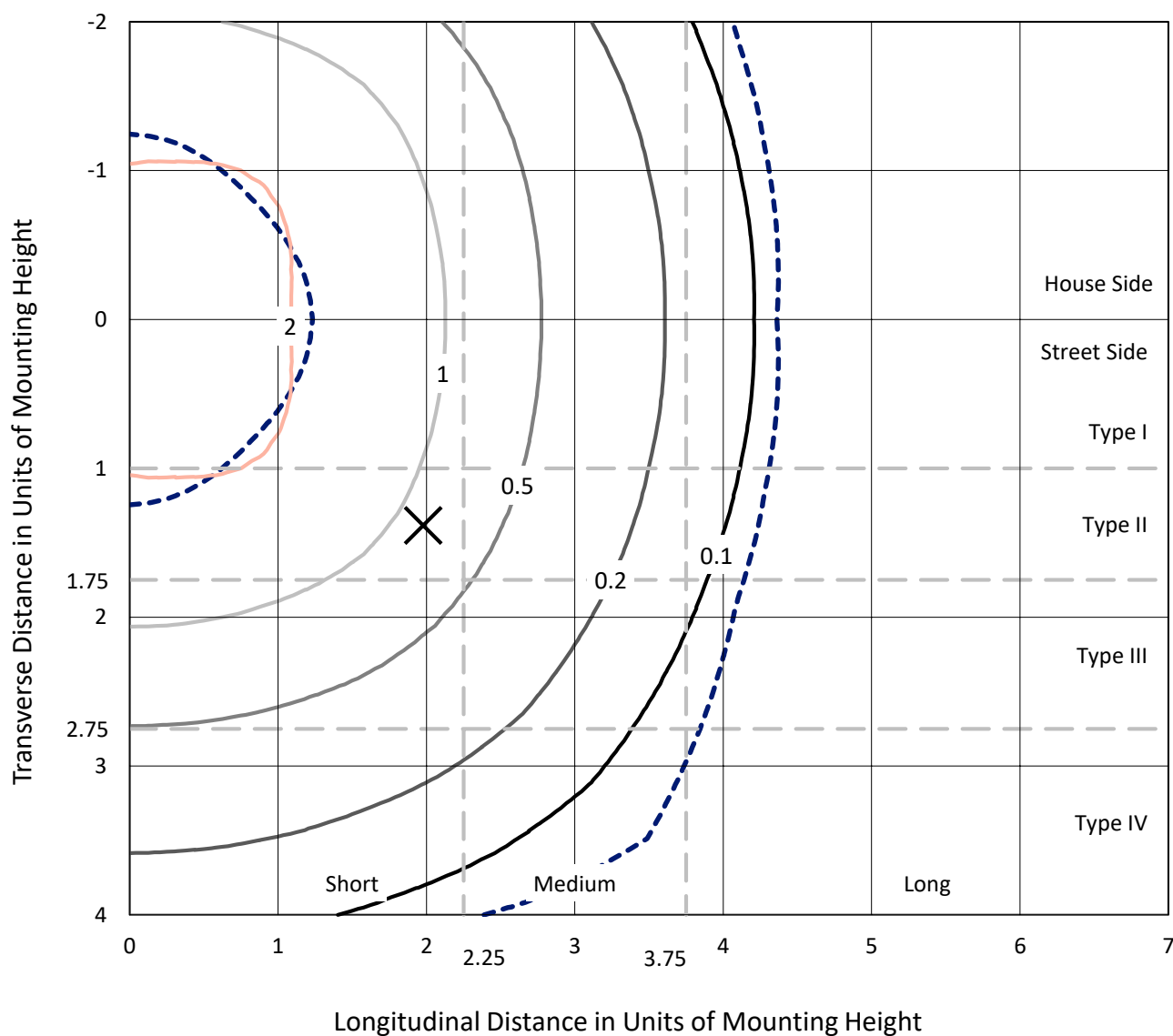
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

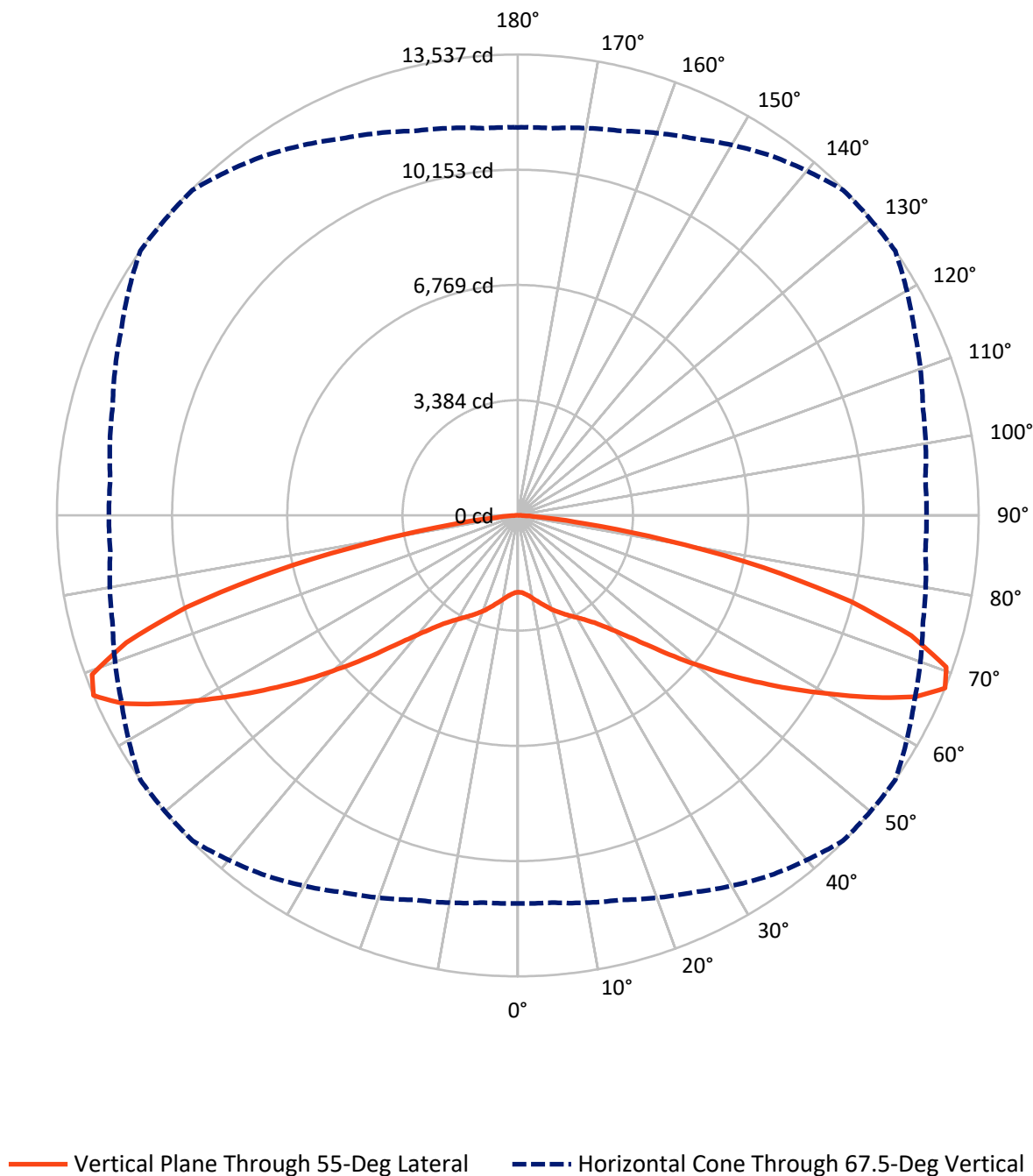


Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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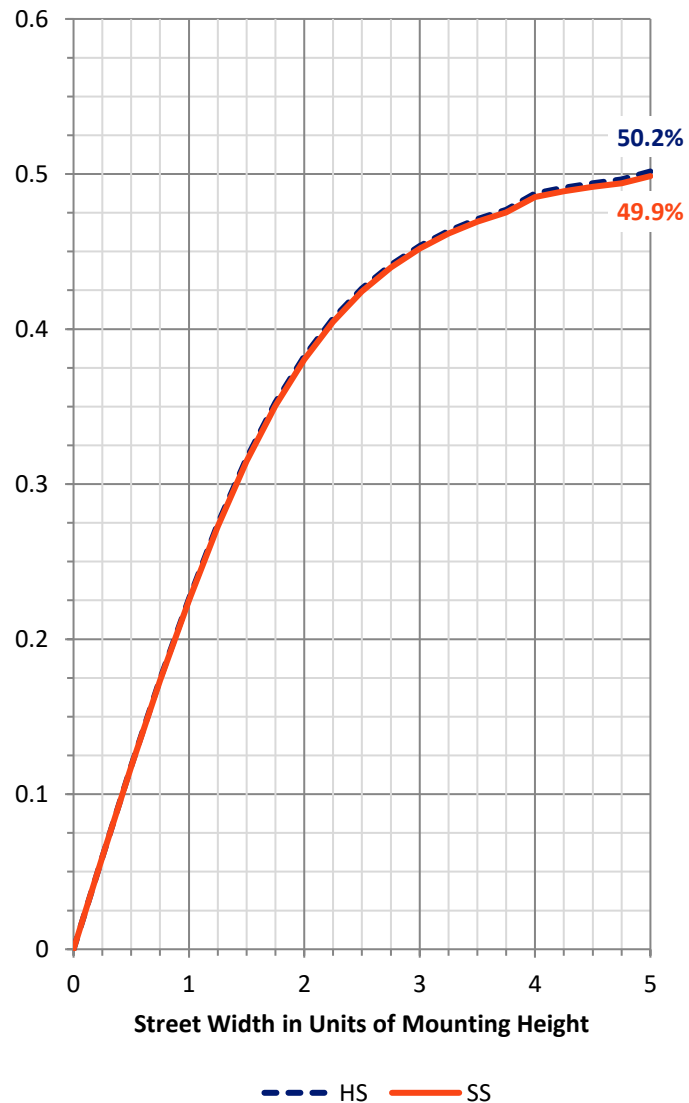
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19439.5	0.0	19439.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19439.5	0.0	19439.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38879.1	0.0	38879.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	0.6
10°-20°	773.6	2.0
20°-30°	1487.5	3.8
30°-40°	2436.6	6.3
40°-50°	4235.9	10.9
50°-60°	7560.8	19.4
60°-70°	11673.5	30.0
70°-80°	9449.7	24.3
80°-90°	1035.1	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°	38879.1	100.0
0°-180°	38879.1	100.0

Coefficient of Utilization



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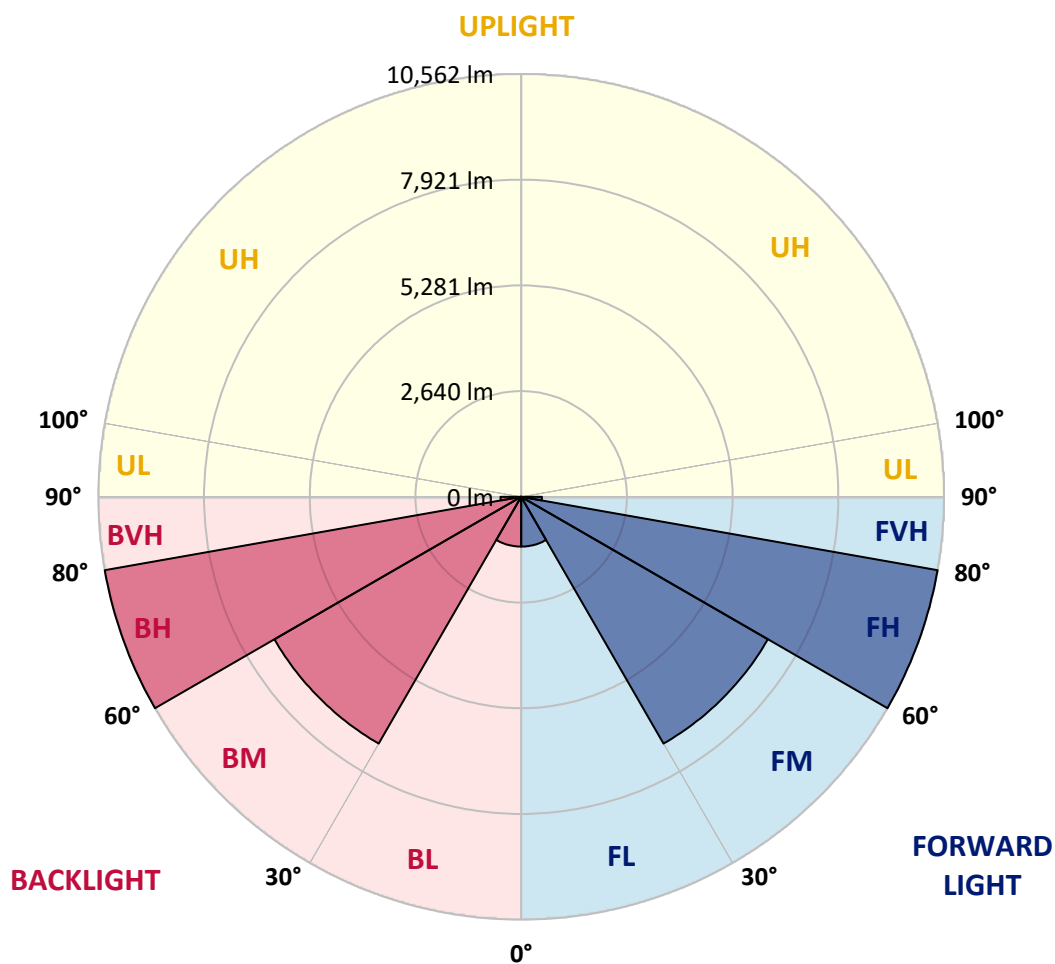
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.7	3.2			
FM	(30°-60°)	7116.7	18.3			
FH	(60°-80°)	10561.6	27.2			G4/12000
FVH	(80°-90°)	517.6	1.3			G4/750
BL	(0°-30°)	1243.7	3.2	B3/2500		
BM	(30°-60°)	7116.7	18.3	B4/8500		
BH	(60°-80°)	10561.6	27.2	B5		G4/12000
BVH	(80°-90°)	517.6	1.3			G4/750
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°	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8
2.5°	2270.6	2273.0	2270.6	2270.6	2268.1	2268.1	2268.1	2270.6	2270.6	2275.5	2273.0
5°	2317.4	2319.8	2314.9	2319.8	2319.8	2322.3	2319.8	2317.4	2319.8	2322.3	2314.9
7.5°	2383.8	2388.8	2386.3	2388.8	2391.2	2388.8	2388.8	2386.3	2391.2	2388.8	2383.8
10°	2470.0	2475.0	2472.5	2477.4	2479.9	2482.4	2482.4	2477.4	2475.0	2475.0	2472.5
12.5°	2573.5	2573.5	2573.5	2580.9	2585.8	2590.7	2588.2	2583.3	2575.9	2578.4	2568.5
15°	2686.8	2691.7	2691.7	2694.1	2706.5	2708.9	2706.5	2699.1	2696.6	2691.7	2686.8
17.5°	2812.3	2814.8	2817.3	2819.7	2834.5	2841.9	2832.1	2819.7	2819.7	2817.3	2817.3
20°	2942.9	2940.4	2945.3	2950.3	2960.1	2967.5	2965.0	2952.7	2942.9	2950.3	2947.8
22.5°	3063.5	3066.0	3068.5	3075.9	3093.1	3095.6	3088.2	3078.3	3066.0	3068.5	3068.5
25°	3176.8	3179.3	3184.2	3194.1	3213.8	3226.1	3216.2	3201.4	3184.2	3184.2	3186.7
27.5°	3292.6	3295.0	3297.5	3314.7	3339.4	3354.1	3346.7	3322.1	3302.4	3297.5	3290.1
30°	3420.6	3420.6	3425.6	3447.7	3479.7	3497.0	3487.1	3457.6	3428.0	3423.1	3423.1
32.5°	3583.2	3573.3	3580.7	3610.2	3644.7	3664.4	3657.0	3622.6	3585.6	3578.2	3578.2
35°	3777.7	3772.8	3777.7	3812.2	3854.1	3883.6	3866.4	3834.4	3794.9	3787.6	3782.6
37.5°	4009.2	4011.7	4026.4	4065.8	4122.5	4159.4	4142.2	4090.5	4043.7	4043.7	4043.7
40°	4302.3	4307.2	4336.7	4395.8	4477.1	4509.1	4489.4	4425.4	4371.2	4351.5	4356.4
42.5°	4701.2	4698.7	4745.5	4819.4	4915.5	4962.2	4930.2	4861.3	4782.5	4750.5	4752.9
45°	5171.6	5206.0	5255.3	5348.9	5469.6	5550.8	5494.2	5417.8	5299.6	5252.8	5250.4
47.5°	5740.4	5777.4	5839.0	5994.1	6139.4	6237.9	6193.6	6068.0	5898.1	5831.6	5806.9
50°	6388.1	6434.9	6513.7	6713.2	6920.1	7030.9	6952.1	6787.1	6604.8	6503.9	6479.2
52.5°	7117.1	7131.8	7250.1	7491.4	7747.5	7883.0	7794.3	7597.3	7363.3	7269.8	7200.8
55°	7924.8	7937.1	8072.6	8345.9	8636.5	8796.6	8683.3	8434.6	8217.9	8055.3	8070.1
57.5°	8673.5	8710.4	8909.9	9230.0	9572.3	9766.9	9643.7	9380.2	9153.7	8969.0	8991.1
60°	9473.8	9513.2	9722.6	10104.3	10567.2	10825.8	10665.8	10382.5	10148.6	9973.7	9951.6
62.5°	10323.4	10345.6	10574.6	10916.9	11508.0	11924.2	11771.5	11458.7	11185.4	11013.0	10995.7
65°	11109.0	11138.6	11333.1	11707.5	12315.7	12924.0	12837.8	12404.4	12035.0	11786.3	11751.8
67.5°	11394.7	11414.4	11687.8	12212.3	12911.7	13512.6	13537.2	12855.0	12318.2	12015.3	12007.9
70°	11059.8	11074.6	11424.2	12047.3	12938.8	13438.7	13350.0	12665.4	12005.4	11633.6	11596.6
72.5°	10308.7	10311.1	10631.3	11160.7	12054.7	12463.5	12086.7	11709.9	11027.8	10749.5	10675.6
75°	8941.9	8944.4	9166.0	9518.2	10156.0	10532.8	10104.3	9759.5	9358.1	9193.1	9106.9
77.5°	6149.2	6186.2	6415.2	6821.5	7520.9	7937.1	7375.6	6750.1	6506.3	6366.0	6282.2
80°	2960.1	3016.8	3280.3	3681.7	4413.1	5078.0	4386.0	3615.2	3139.9	2753.2	2822.2
82.5°	790.5	800.4	1026.9	1475.1	2056.3	2413.4	1960.3	1371.7	864.4	581.2	531.9
85°	209.3	221.6	310.3	426.0	647.7	825.0	630.4	401.4	305.4	226.6	206.9
87.5°	56.6	66.5	108.4	130.5	162.5	130.5	162.5	140.4	135.4	71.4	51.7
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)