

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: P157629

Luminaire Tested: **VST-E11-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157629
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (231) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31722.9 lumens
Efficiency: N/A
Efficacy: 117.6 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



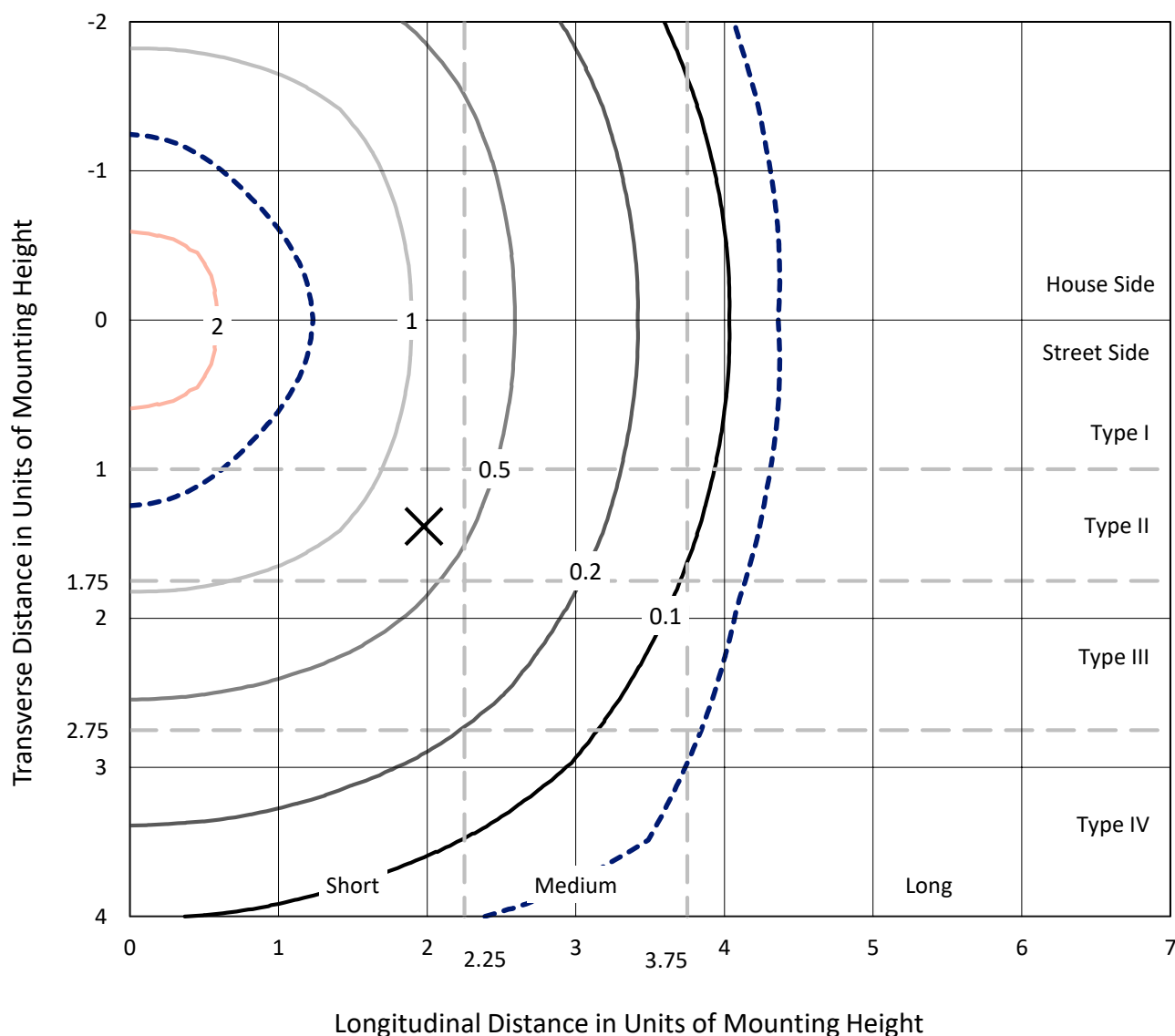
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

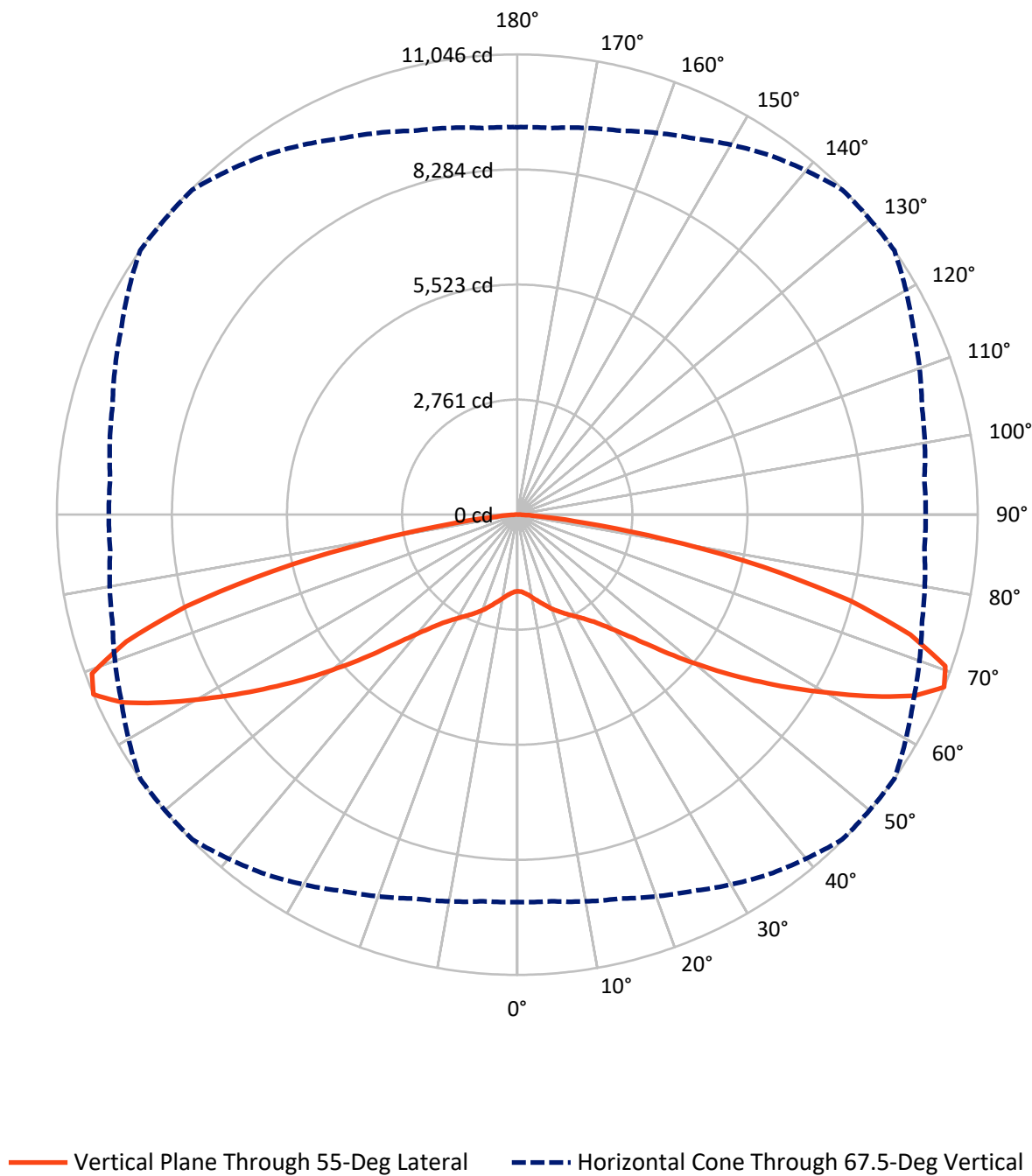


Based on 30 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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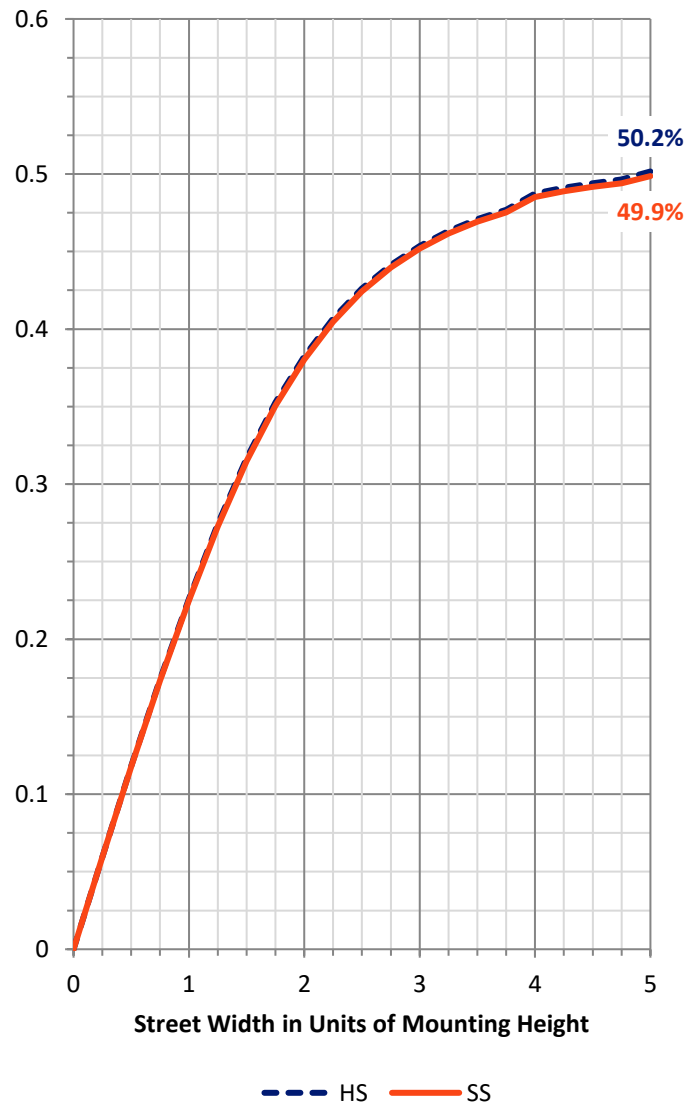
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15861.4	0.0	15861.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15861.4	0.0	15861.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31722.9	0.0	31722.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	0.6
10°-20°	631.2	2.0
20°-30°	1213.7	3.8
30°-40°	1988.1	6.3
40°-50°	3456.3	10.9
50°-60°	6169.2	19.4
60°-70°	9524.8	30.0
70°-80°	7710.4	24.3
80°-90°	844.6	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°	31722.9	100.0
0°-180°	31722.9	100.0

Coefficient of Utilization



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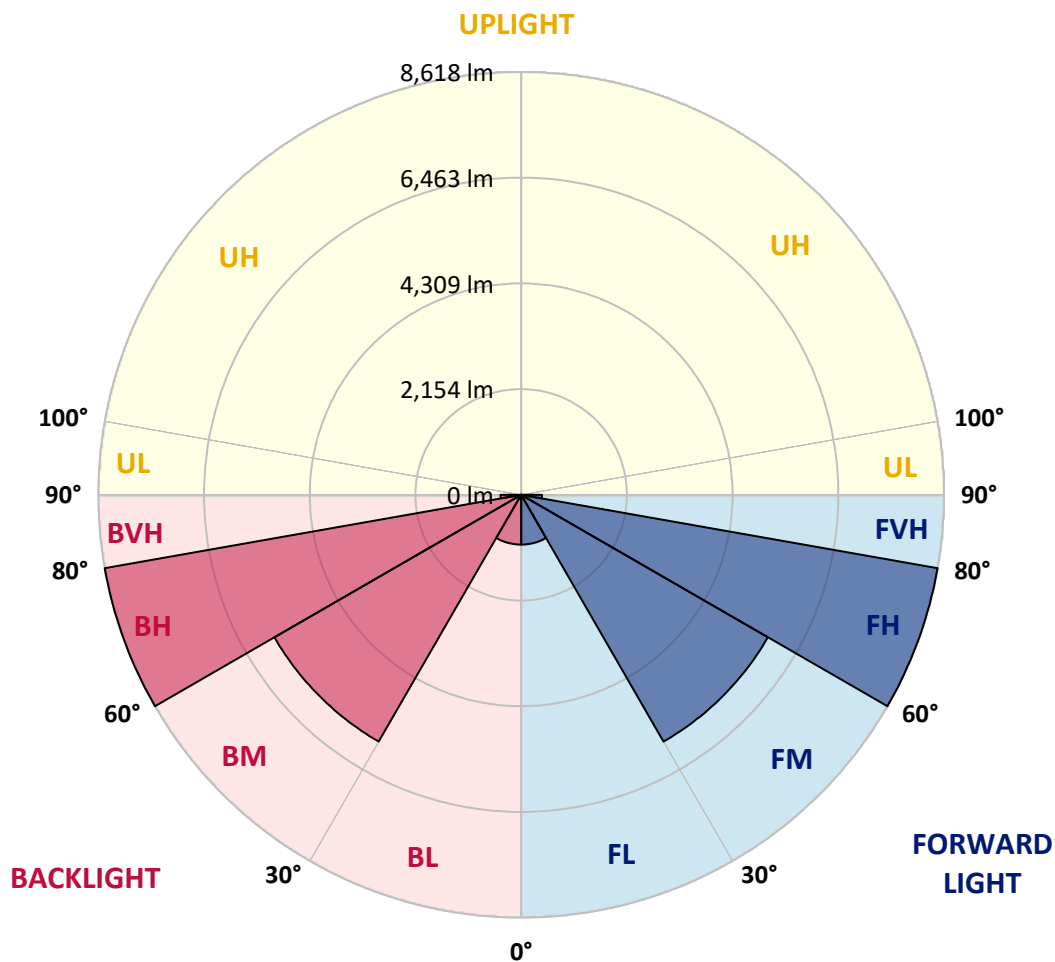
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1014.8	3.2			
FM	(30°-60°)	5806.8	18.3			
FH	(60°-80°)	8617.6	27.2			G4/12000
FVH	(80°-90°)	422.3	1.3			G3/500
BL	(0°-30°)	1014.8	3.2	B3/2500		
BM	(30°-60°)	5806.8	18.3	B4/8500		
BH	(60°-80°)	8617.6	27.2	B5		G4/12000
BVH	(80°-90°)	422.3	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°	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6
2.5°	1852.6	1854.6	1852.6	1852.6	1850.6	1850.6	1850.6	1852.6	1852.6	1856.7	1854.6
5°	1890.8	1892.8	1888.8	1892.8	1892.8	1894.8	1892.8	1890.8	1892.8	1894.8	1888.8
7.5°	1945.1	1949.1	1947.1	1949.1	1951.1	1949.1	1949.1	1947.1	1951.1	1949.1	1945.1
10°	2015.4	2019.4	2017.4	2021.4	2023.4	2025.4	2025.4	2021.4	2019.4	2019.4	2017.4
12.5°	2099.8	2099.8	2099.8	2105.8	2109.8	2113.9	2111.8	2107.8	2101.8	2103.8	2095.8
15°	2192.2	2196.2	2196.2	2198.3	2208.3	2210.3	2208.3	2202.3	2200.3	2196.2	2192.2
17.5°	2294.7	2296.7	2298.7	2300.7	2312.8	2318.8	2310.8	2300.7	2300.7	2298.7	2298.7
20°	2401.2	2399.2	2403.2	2407.2	2415.3	2421.3	2419.3	2409.2	2401.2	2407.2	2405.2
22.5°	2499.7	2501.7	2503.7	2509.7	2523.8	2525.8	2519.8	2511.7	2501.7	2503.7	2503.7
25°	2592.1	2594.1	2598.1	2606.2	2622.2	2632.3	2624.2	2612.2	2598.1	2598.1	2600.1
27.5°	2686.5	2688.5	2690.5	2704.6	2724.7	2736.8	2730.7	2710.6	2694.6	2690.5	2684.5
30°	2791.0	2791.0	2795.0	2813.1	2839.2	2853.3	2845.3	2821.2	2797.0	2793.0	2793.0
32.5°	2923.6	2915.6	2921.6	2945.7	2973.9	2989.9	2983.9	2955.8	2925.6	2919.6	2919.6
35°	3082.4	3078.4	3082.4	3110.5	3144.7	3168.8	3154.7	3128.6	3096.4	3090.4	3086.4
37.5°	3271.3	3273.3	3285.3	3317.5	3363.7	3393.8	3379.8	3337.6	3299.4	3299.4	3299.4
40°	3510.4	3514.4	3538.5	3586.7	3653.0	3679.2	3663.1	3610.8	3566.6	3550.6	3554.6
42.5°	3835.9	3833.9	3872.1	3932.3	4010.7	4048.9	4022.8	3966.5	3902.2	3876.1	3878.1
45°	4219.7	4247.8	4288.0	4364.4	4462.8	4529.1	4482.9	4420.6	4324.2	4286.0	4284.0
47.5°	4683.8	4714.0	4764.2	4890.8	5009.4	5089.7	5053.6	4951.1	4812.4	4758.2	4738.1
50°	5212.3	5250.5	5314.8	5477.5	5646.3	5736.8	5672.5	5537.8	5389.1	5306.7	5286.7
52.5°	5807.1	5819.1	5915.6	6112.5	6321.5	6432.0	6359.7	6198.9	6008.0	5931.7	5875.4
55°	6466.2	6476.2	6586.7	6809.8	7046.9	7177.5	7085.0	6882.1	6705.3	6572.7	6584.7
57.5°	7077.0	7107.1	7269.9	7531.1	7810.4	7969.2	7868.7	7653.7	7468.8	7318.1	7336.2
60°	7730.0	7762.2	7933.0	8244.4	8622.2	8833.2	8702.6	8471.5	8280.6	8138.0	8119.9
62.5°	8423.3	8441.4	8628.2	8907.5	9389.8	9729.4	9604.8	9349.6	9126.6	8985.9	8971.8
65°	9064.3	9088.4	9247.1	9552.5	10048.9	10545.2	10474.8	10121.2	9819.8	9616.8	9588.7
67.5°	9297.4	9313.4	9536.5	9964.5	10535.1	11025.4	11045.5	10488.9	10050.9	9803.7	9797.7
70°	9024.1	9036.1	9321.5	9829.8	10557.2	10965.1	10892.8	10334.2	9795.7	9492.3	9462.1
72.5°	8411.2	8413.2	8674.5	9106.5	9835.9	10169.4	9862.0	9554.6	8998.0	8770.9	8710.6
75°	7296.0	7298.0	7478.9	7766.2	8286.6	8594.1	8244.4	7963.1	7635.6	7501.0	7430.7
77.5°	5017.4	5047.5	5234.4	5566.0	6136.6	6476.2	6018.1	5507.7	5308.8	5194.2	5125.9
80°	2415.3	2461.5	2676.5	3004.0	3600.8	4143.3	3578.7	2949.8	2561.9	2246.5	2302.7
82.5°	645.0	653.0	837.9	1203.6	1677.8	1969.2	1599.5	1119.2	705.3	474.2	434.0
85°	170.8	180.8	253.2	347.6	528.5	673.1	514.4	327.5	249.2	184.9	168.8
87.5°	46.2	54.3	88.4	106.5	132.6	106.5	132.6	114.5	110.5	58.3	42.2
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)