

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: P157639

Luminaire Tested: **VST-E12-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157639
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (252) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34606.8 lumens
Efficiency: N/A
Efficacy: 118.6 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



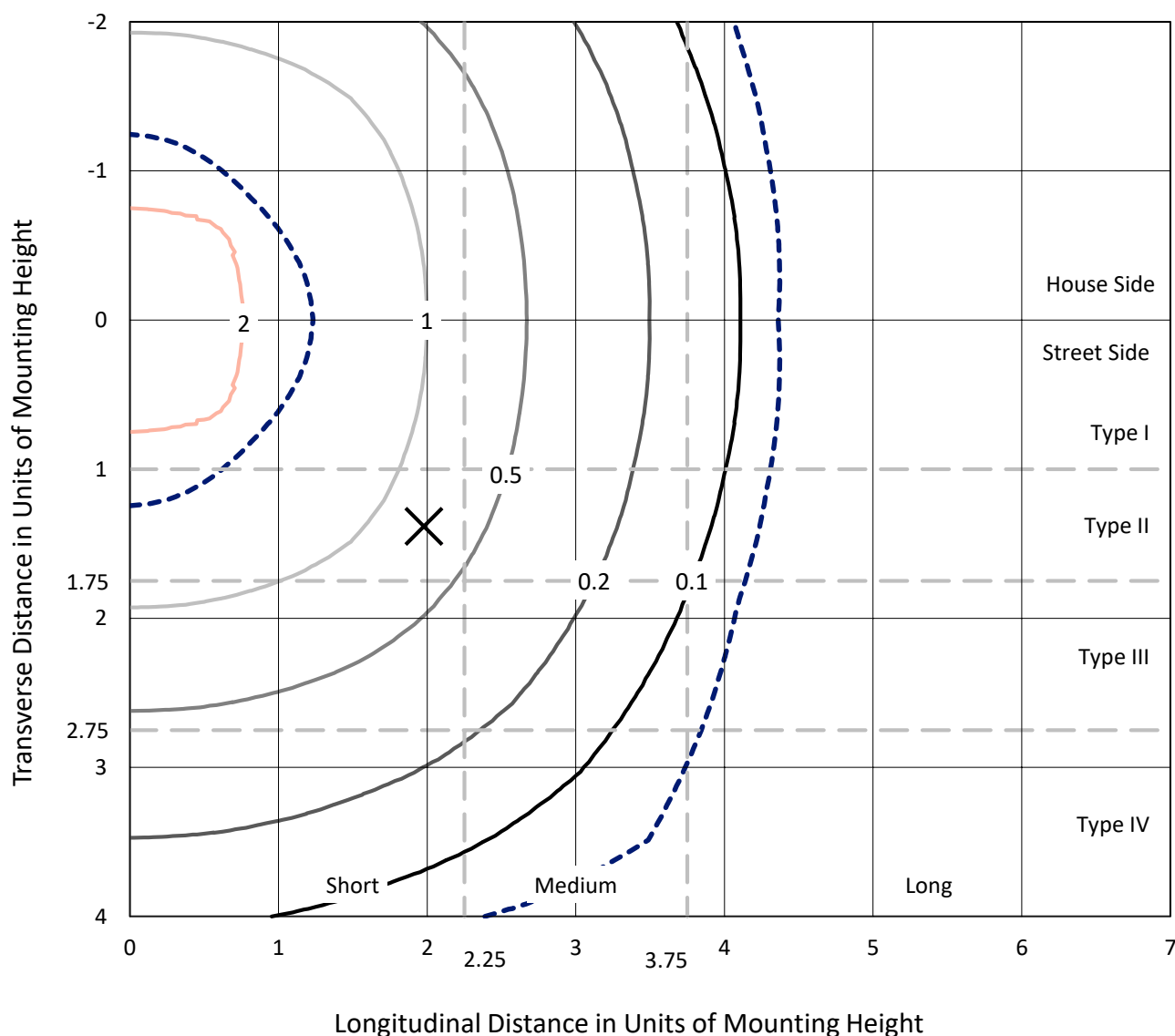
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

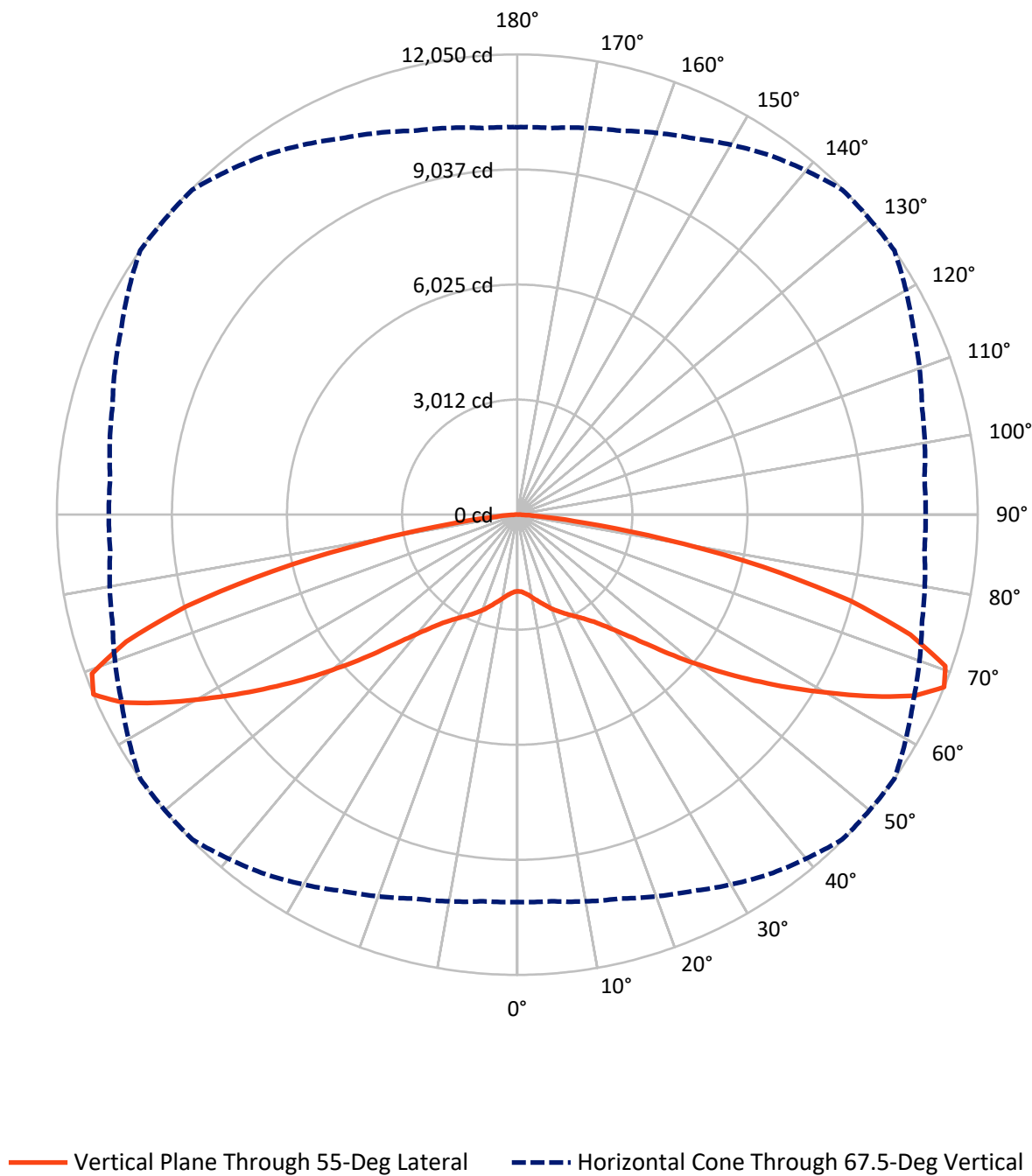


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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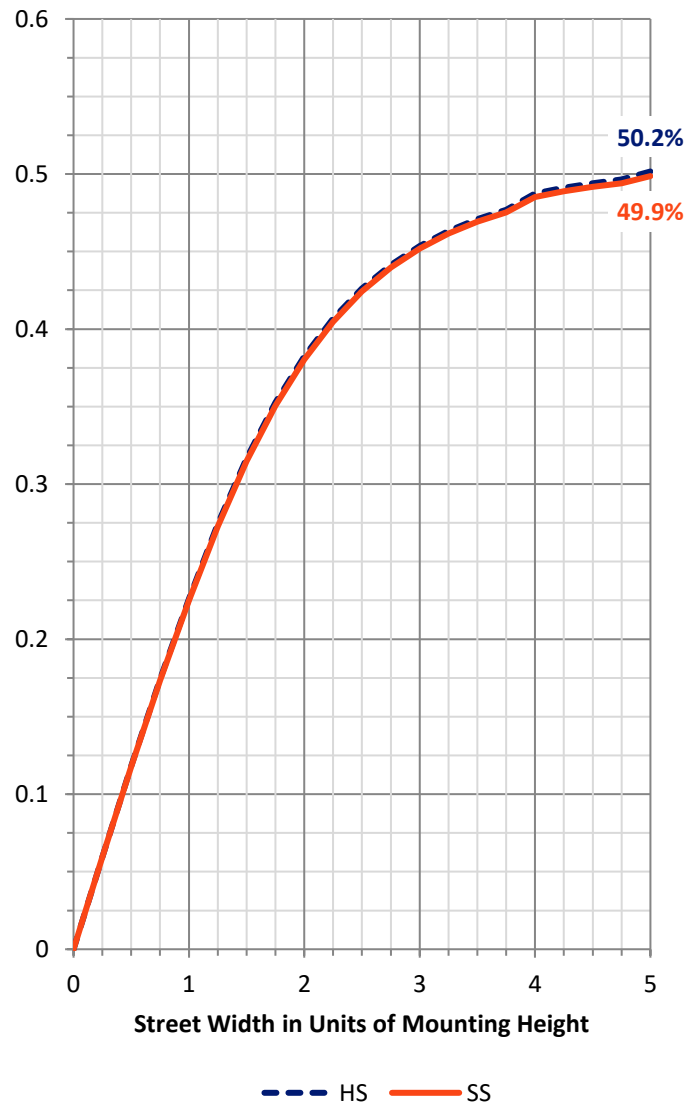
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17303.4	0.0	17303.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17303.4	0.0	17303.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34606.8	0.0	34606.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	0.6
10°-20°	688.6	2.0
20°-30°	1324.0	3.8
30°-40°	2168.9	6.3
40°-50°	3770.5	10.9
50°-60°	6730.0	19.4
60°-70°	10390.7	30.0
70°-80°	8411.3	24.3
80°-90°	921.4	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°	34606.8	100.0
0°-180°	34606.8	100.0

Coefficient of Utilization



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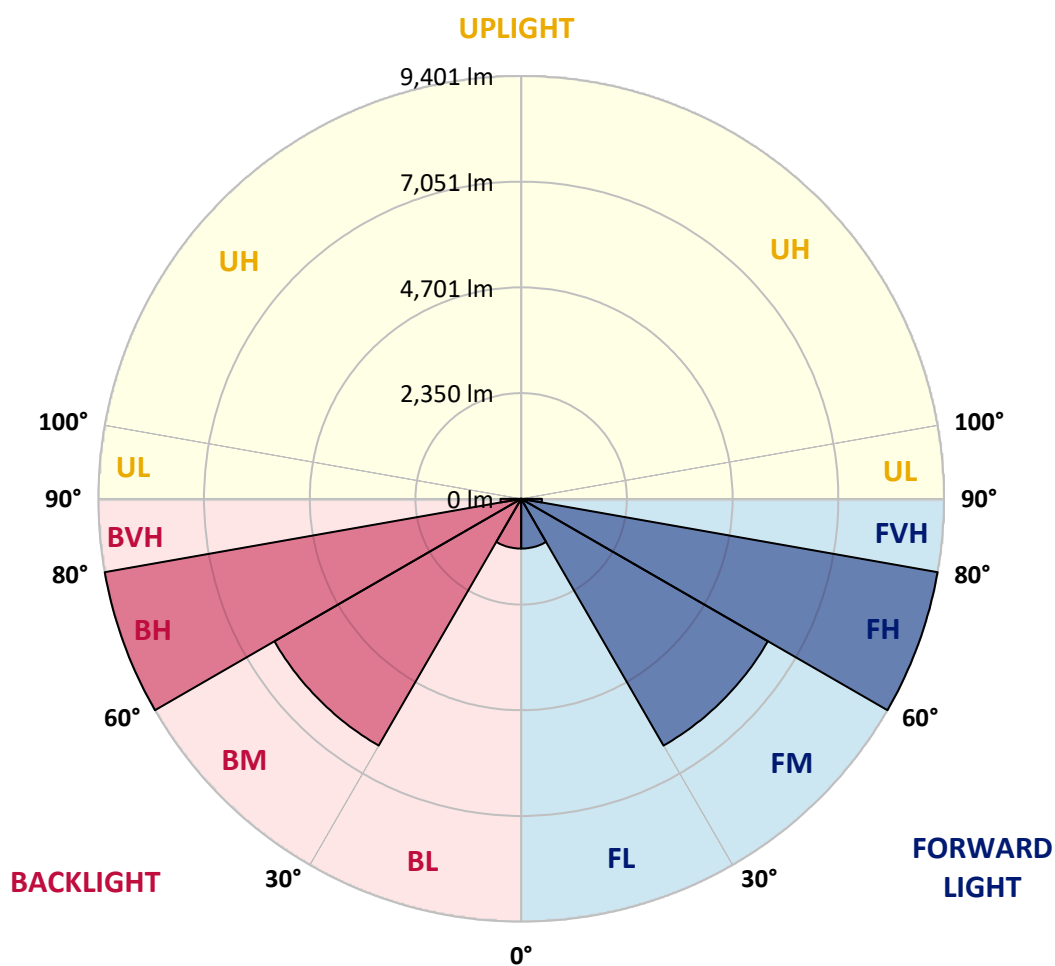
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1107.0	3.2			
FM	(30°-60°)	6334.7	18.3			
FH	(60°-80°)	9401.0	27.2			G4/12000
FVH	(80°-90°)	460.7	1.3			G3/500
BL	(0°-30°)	1107.0	3.2	B3/2500		
BM	(30°-60°)	6334.7	18.3	B4/8500		
BH	(60°-80°)	9401.0	27.2	B5		G4/12000
BVH	(80°-90°)	460.7	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°	2007.9	2007.9	2007.9	2007.9	2007.9	2007.9	2007.9	2007.9	2007.9	2007.9	2007.9
2.5°	2021.1	2023.3	2021.1	2021.1	2018.9	2018.9	2018.9	2021.1	2021.1	2025.4	2023.3
5°	2062.7	2064.9	2060.5	2064.9	2064.9	2067.1	2064.9	2062.7	2064.9	2067.1	2060.5
7.5°	2121.9	2126.3	2124.1	2126.3	2128.5	2126.3	2126.3	2124.1	2128.5	2126.3	2121.9
10°	2198.6	2203.0	2200.8	2205.2	2207.4	2209.6	2209.6	2205.2	2203.0	2203.0	2200.8
12.5°	2290.7	2290.7	2290.7	2297.3	2301.6	2306.0	2303.8	2299.5	2292.9	2295.1	2286.3
15°	2391.5	2395.9	2395.9	2398.1	2409.1	2411.2	2409.1	2402.5	2400.3	2395.9	2391.5
17.5°	2503.3	2505.5	2507.7	2509.9	2523.0	2529.6	2520.8	2509.9	2509.9	2507.7	2507.7
20°	2619.5	2617.3	2621.7	2626.1	2634.8	2641.4	2639.2	2628.3	2619.5	2626.1	2623.9
22.5°	2726.9	2729.1	2731.3	2737.9	2753.2	2755.4	2748.8	2740.1	2729.1	2731.3	2731.3
25°	2827.7	2829.9	2834.3	2843.1	2860.6	2871.6	2862.8	2849.7	2834.3	2834.3	2836.5
27.5°	2930.8	2933.0	2935.1	2950.5	2972.4	2985.6	2979.0	2957.1	2939.5	2935.1	2928.6
30°	3044.7	3044.7	3049.1	3068.9	3097.4	3112.7	3103.9	3077.6	3051.3	3046.9	3046.9
32.5°	3189.4	3180.7	3187.2	3213.5	3244.2	3261.8	3255.2	3224.5	3191.6	3185.0	3185.0
35°	3362.6	3358.2	3362.6	3393.3	3430.5	3456.8	3441.5	3413.0	3377.9	3371.4	3367.0
37.5°	3568.6	3570.8	3584.0	3619.1	3669.5	3702.4	3687.0	3641.0	3599.3	3599.3	3599.3
40°	3829.5	3833.9	3860.2	3912.8	3985.1	4013.6	3996.1	3939.1	3890.9	3873.3	3877.7
42.5°	4184.6	4182.4	4224.1	4289.8	4375.3	4417.0	4388.5	4327.1	4256.9	4228.4	4230.6
45°	4603.3	4634.0	4677.8	4761.1	4868.5	4940.9	4890.4	4822.5	4717.3	4675.6	4673.4
47.5°	5109.6	5142.5	5197.3	5335.4	5464.8	5552.4	5513.0	5401.2	5249.9	5190.8	5168.8
50°	5686.2	5727.8	5797.9	5975.5	6159.6	6258.3	6188.1	6041.3	5879.1	5789.2	5767.3
52.5°	6335.0	6348.2	6453.4	6668.2	6896.2	7016.7	6937.8	6762.4	6554.2	6470.9	6409.5
55°	7054.0	7064.9	7185.5	7428.8	7687.5	7830.0	7729.1	7507.7	7314.8	7170.2	7183.3
57.5°	7720.4	7753.2	7930.8	8215.8	8520.5	8693.6	8584.0	8349.5	8147.8	7983.4	8003.1
60°	8432.8	8467.9	8654.2	8993.9	9406.0	9636.2	9493.7	9241.6	9033.4	8877.8	8858.0
62.5°	9189.0	9208.8	9412.6	9717.3	10243.4	10613.9	10478.0	10199.6	9956.2	9802.8	9787.5
65°	9888.3	9914.6	10087.8	10421.0	10962.4	11503.8	11427.1	11041.3	10712.5	10491.1	10460.4
67.5°	10142.6	10160.1	10403.4	10870.3	11492.9	12027.7	12049.6	11442.5	10964.6	10695.0	10688.4
70°	9844.5	9857.6	10168.9	10723.5	11517.0	11962.0	11883.1	11273.7	10686.2	10355.2	10322.3
72.5°	9175.9	9178.1	9463.0	9934.3	10730.0	11093.9	10758.5	10423.2	9816.0	9568.3	9502.5
75°	7959.3	7961.5	8158.8	8472.2	9040.0	9375.4	8993.9	8687.1	8329.8	8182.9	8106.2
77.5°	5473.5	5506.4	5710.3	6072.0	6694.5	7064.9	6565.2	6008.4	5791.4	5666.4	5591.9
80°	2634.8	2685.2	2919.8	3277.1	3928.1	4520.0	3904.0	3217.9	2794.9	2450.7	2512.1
82.5°	703.6	712.4	914.1	1313.0	1830.4	2148.2	1744.9	1221.0	769.4	517.3	473.5
85°	186.3	197.3	276.2	379.2	576.5	734.3	561.2	357.3	271.8	201.7	184.1
87.5°	50.4	59.2	96.4	116.2	144.7	116.2	144.7	124.9	120.6	63.6	46.0
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)