

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: P157626

Luminaire Tested: **VST-F10-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157626
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-F10-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (70) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26746.4 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 258.7
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



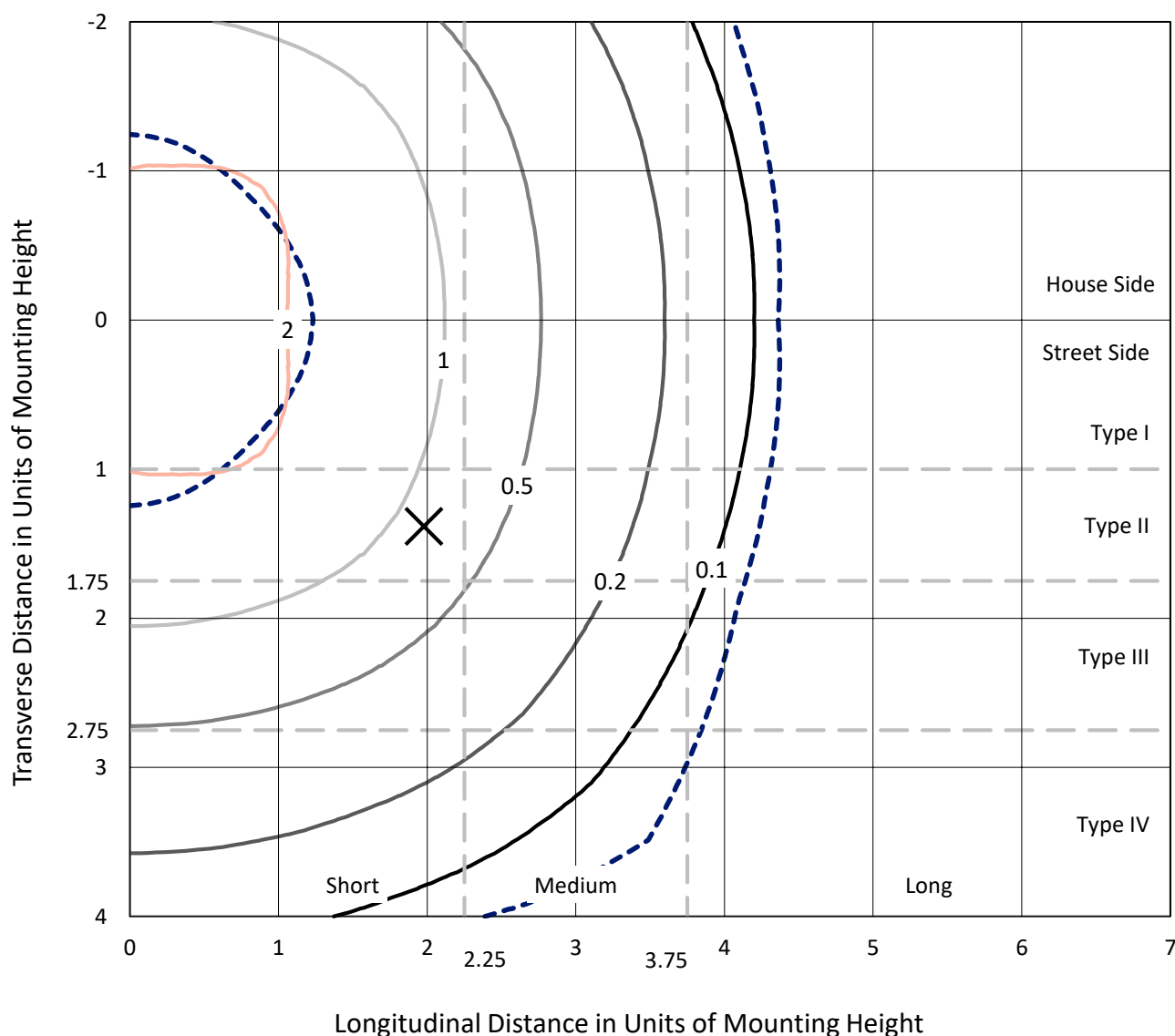
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

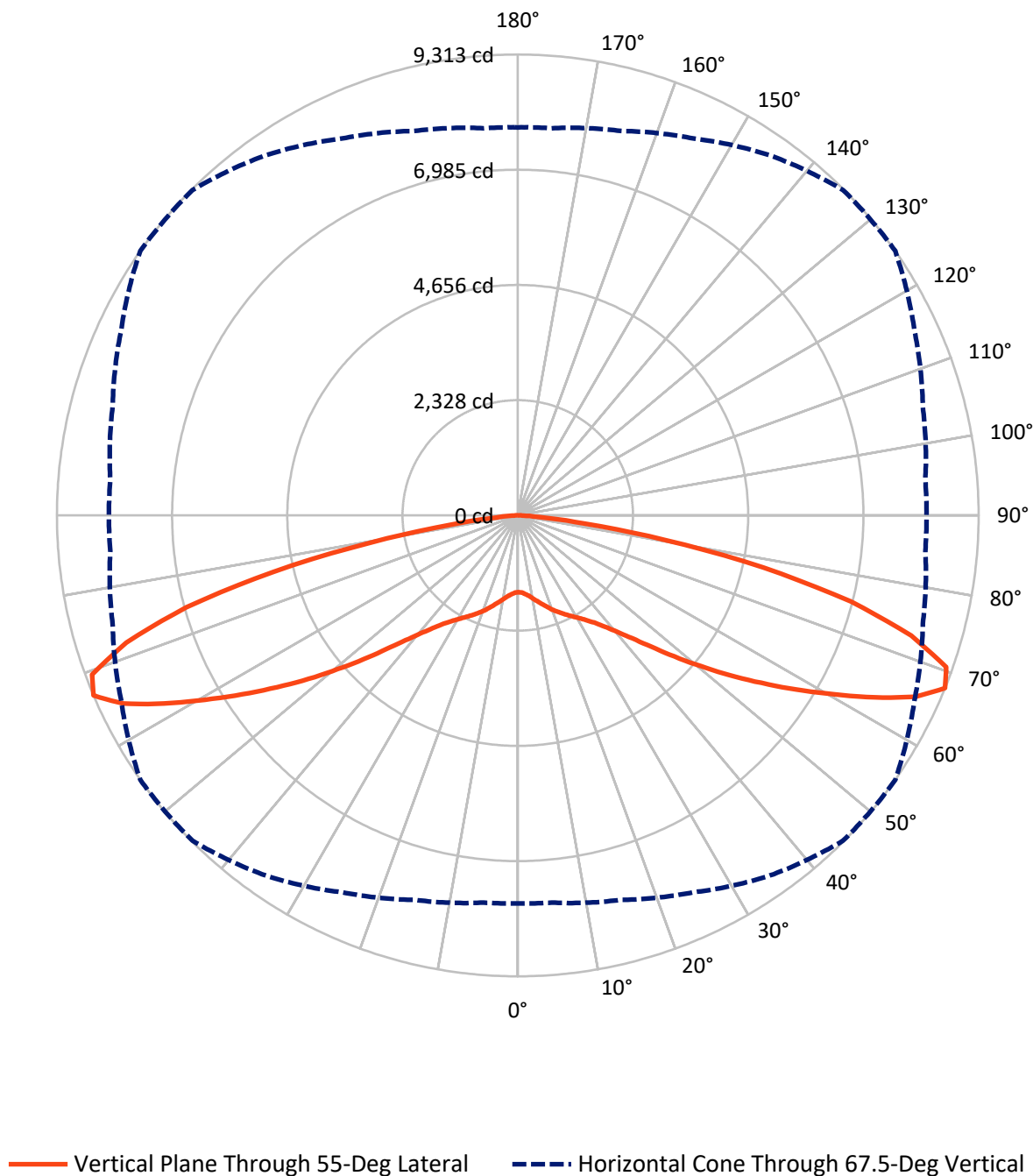


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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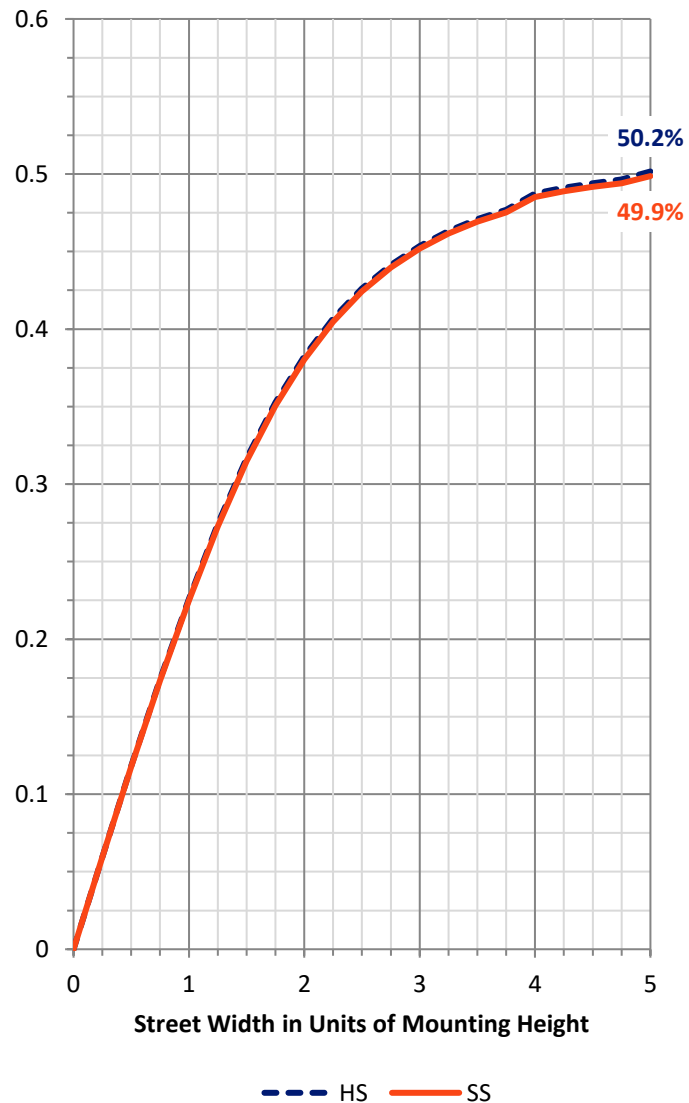
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13373.2	0.0	13373.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13373.2	0.0	13373.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	26746.4	0.0	26746.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	0.6
10°-20°	532.2	2.0
20°-30°	1023.3	3.8
30°-40°	1676.2	6.3
40°-50°	2914.1	10.9
50°-60°	5201.4	19.4
60°-70°	8030.6	30.0
70°-80°	6500.8	24.3
80°-90°	712.1	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°	26746.4	100.0
0°-180°	26746.4	100.0

Coefficient of Utilization



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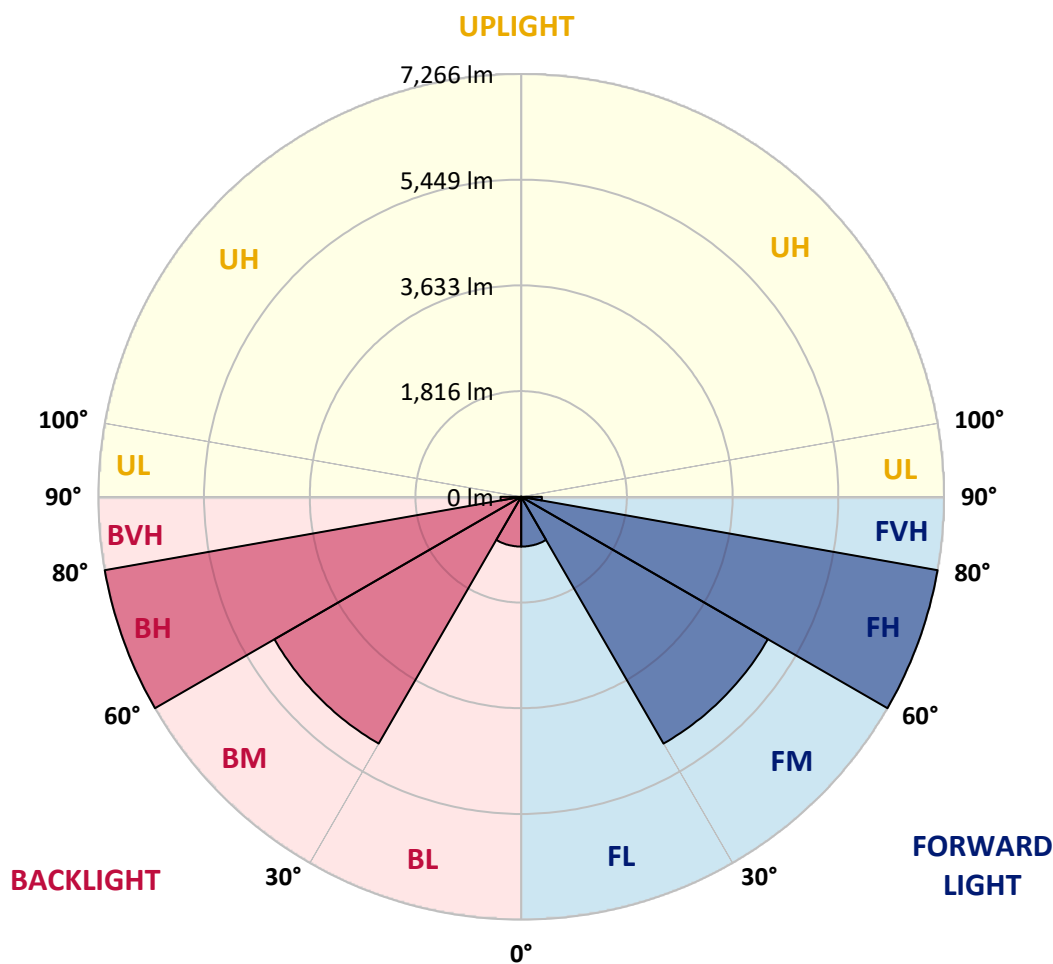
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	855.6	3.2			
FM	(30°-60°)	4895.8	18.3			
FH	(60°-80°)	7265.7	27.2			G3/7500
FVH	(80°-90°)	356.0	1.3			G3/500
BL	(0°-30°)	855.6	3.2	B2/1000		
BM	(30°-60°)	4895.8	18.3	B3/5000		
BH	(60°-80°)	7265.7	27.2	B5		G3/7500
BVH	(80°-90°)	356.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8
2.5°	1562.0	1563.7	1562.0	1562.0	1560.3	1560.3	1560.3	1562.0	1562.0	1565.4	1563.7
5°	1594.2	1595.9	1592.5	1595.9	1595.9	1597.6	1595.9	1594.2	1595.9	1597.6	1592.5
7.5°	1639.9	1643.3	1641.6	1643.3	1645.0	1643.3	1643.3	1641.6	1645.0	1643.3	1639.9
10°	1699.2	1702.6	1700.9	1704.3	1706.0	1707.7	1707.7	1704.3	1702.6	1702.6	1700.9
12.5°	1770.4	1770.4	1770.4	1775.5	1778.9	1782.2	1780.6	1777.2	1772.1	1773.8	1767.0
15°	1848.3	1851.7	1851.7	1853.4	1861.9	1863.6	1861.9	1856.8	1855.1	1851.7	1848.3
17.5°	1934.7	1936.4	1938.1	1939.8	1950.0	1955.1	1948.3	1939.8	1939.8	1938.1	1938.1
20°	2024.5	2022.8	2026.2	2029.6	2036.4	2041.5	2039.8	2031.3	2024.5	2029.6	2027.9
22.5°	2107.5	2109.2	2110.9	2116.0	2127.9	2129.5	2124.5	2117.7	2109.2	2110.9	2110.9
25°	2185.5	2187.1	2190.5	2197.3	2210.9	2219.3	2212.6	2202.4	2190.5	2190.5	2192.2
27.5°	2265.1	2266.8	2268.5	2280.3	2297.3	2307.4	2302.4	2285.4	2271.9	2268.5	2263.4
30°	2353.2	2353.2	2356.6	2371.8	2393.8	2405.7	2398.9	2378.6	2358.3	2354.9	2354.9
32.5°	2465.0	2458.2	2463.3	2483.6	2507.3	2520.9	2515.8	2492.1	2466.7	2461.6	2461.6
35°	2598.8	2595.4	2598.8	2622.5	2651.3	2671.7	2659.8	2637.8	2610.7	2605.6	2602.2
37.5°	2758.1	2759.8	2769.9	2797.0	2836.0	2861.4	2849.6	2814.0	2781.8	2781.8	2781.8
40°	2959.7	2963.1	2983.4	3024.1	3080.0	3102.0	3088.4	3044.4	3007.1	2993.6	2997.0
42.5°	3234.1	3232.4	3264.6	3315.5	3381.5	3413.7	3391.7	3344.3	3290.0	3268.0	3269.7
45°	3557.7	3581.4	3615.3	3679.7	3762.7	3818.6	3779.7	3727.1	3645.8	3613.6	3611.9
47.5°	3949.1	3974.5	4016.8	4123.6	4223.5	4291.3	4260.8	4174.4	4057.5	4011.8	3994.8
50°	4394.6	4426.8	4481.0	4618.3	4760.6	4836.8	4782.6	4669.1	4543.7	4474.3	4457.3
52.5°	4896.1	4906.3	4987.6	5153.6	5329.8	5423.0	5362.0	5226.5	5065.5	5001.1	4953.7
55°	5451.8	5460.2	5553.4	5741.5	5941.4	6051.5	5973.6	5802.5	5653.4	5541.6	5551.7
57.5°	5966.8	5992.2	6129.4	6349.7	6585.2	6719.0	6634.3	6453.0	6297.2	6170.1	6185.3
60°	6517.4	6544.5	6688.5	6951.1	7269.6	7447.5	7337.4	7142.5	6981.6	6861.3	6846.1
62.5°	7101.9	7117.1	7274.7	7510.2	7916.8	8203.1	8098.0	7882.9	7694.8	7576.2	7564.4
65°	7642.3	7662.6	7796.5	8054.0	8472.5	8890.9	8831.6	8533.4	8279.3	8108.2	8084.5
67.5°	7838.8	7852.4	8040.4	8401.3	8882.4	9295.8	9312.7	8843.5	8474.1	8265.8	8260.7
70°	7608.4	7618.6	7859.2	8287.8	8901.1	9245.0	9184.0	8713.0	8259.0	8003.2	7977.8
72.5°	7091.7	7093.4	7313.7	7677.9	8292.9	8574.1	8314.9	8055.7	7586.4	7395.0	7344.1
75°	6151.5	6153.2	6305.6	6547.9	6986.7	7245.9	6951.1	6713.9	6437.8	6324.3	6265.0
77.5°	4230.3	4255.7	4413.3	4692.8	5173.9	5460.2	5074.0	4643.7	4475.9	4379.4	4321.8
80°	2036.4	2075.3	2256.6	2532.8	3035.9	3493.3	3017.3	2487.0	2160.0	1894.1	1941.5
82.5°	543.8	550.6	706.5	1014.8	1414.6	1660.3	1348.5	943.6	594.6	399.8	365.9
85°	144.0	152.5	213.5	293.1	445.6	567.5	433.7	276.1	210.1	155.9	142.3
87.5°	39.0	45.7	74.5	89.8	111.8	89.8	111.8	96.6	93.2	49.1	35.6
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)