

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: P157636

Luminaire Tested: **VST-F11-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157636
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-F11-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (77) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29421 lumens
Efficiency: N/A
Efficacy: 104.1 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): 282.7
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



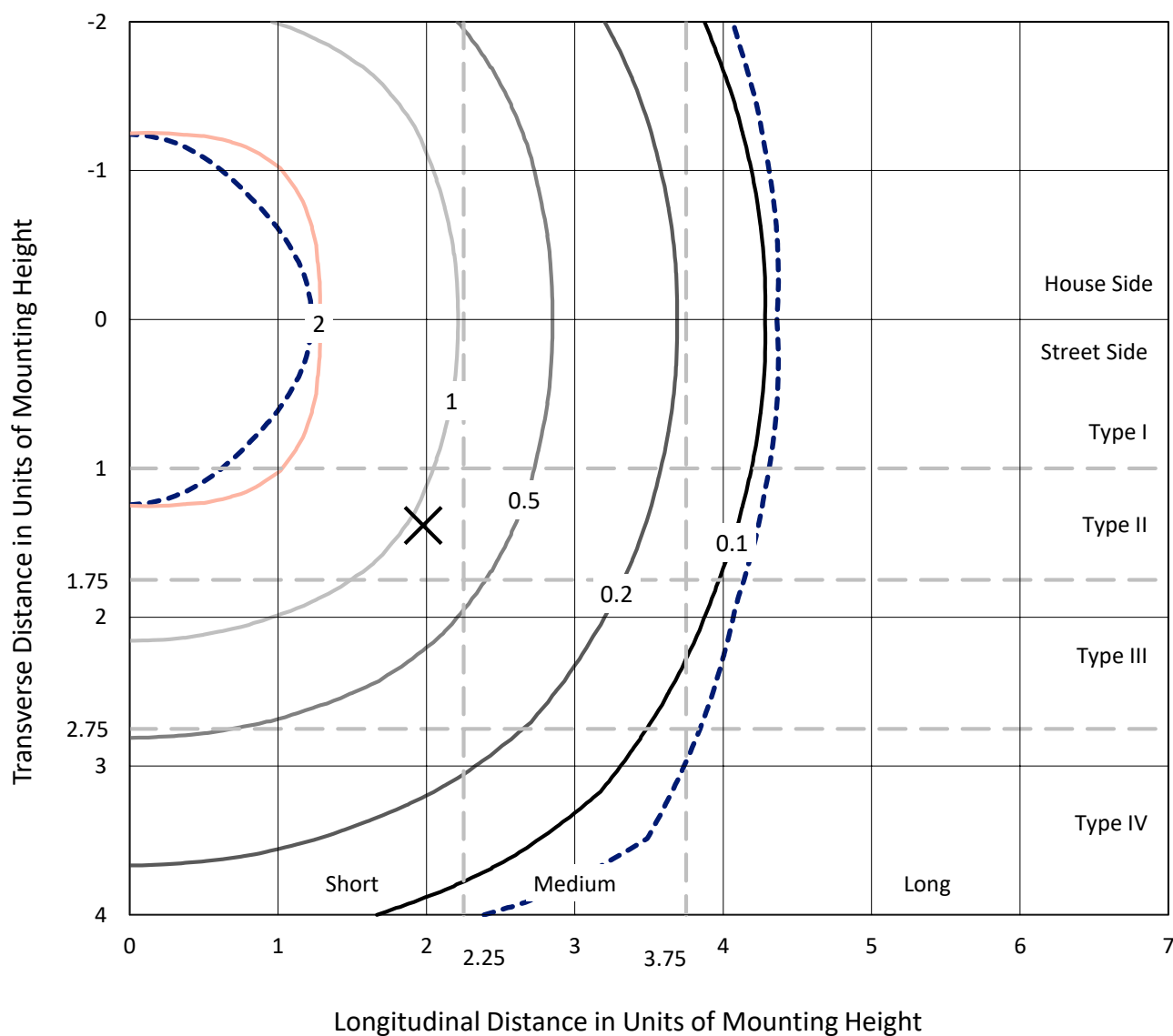
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

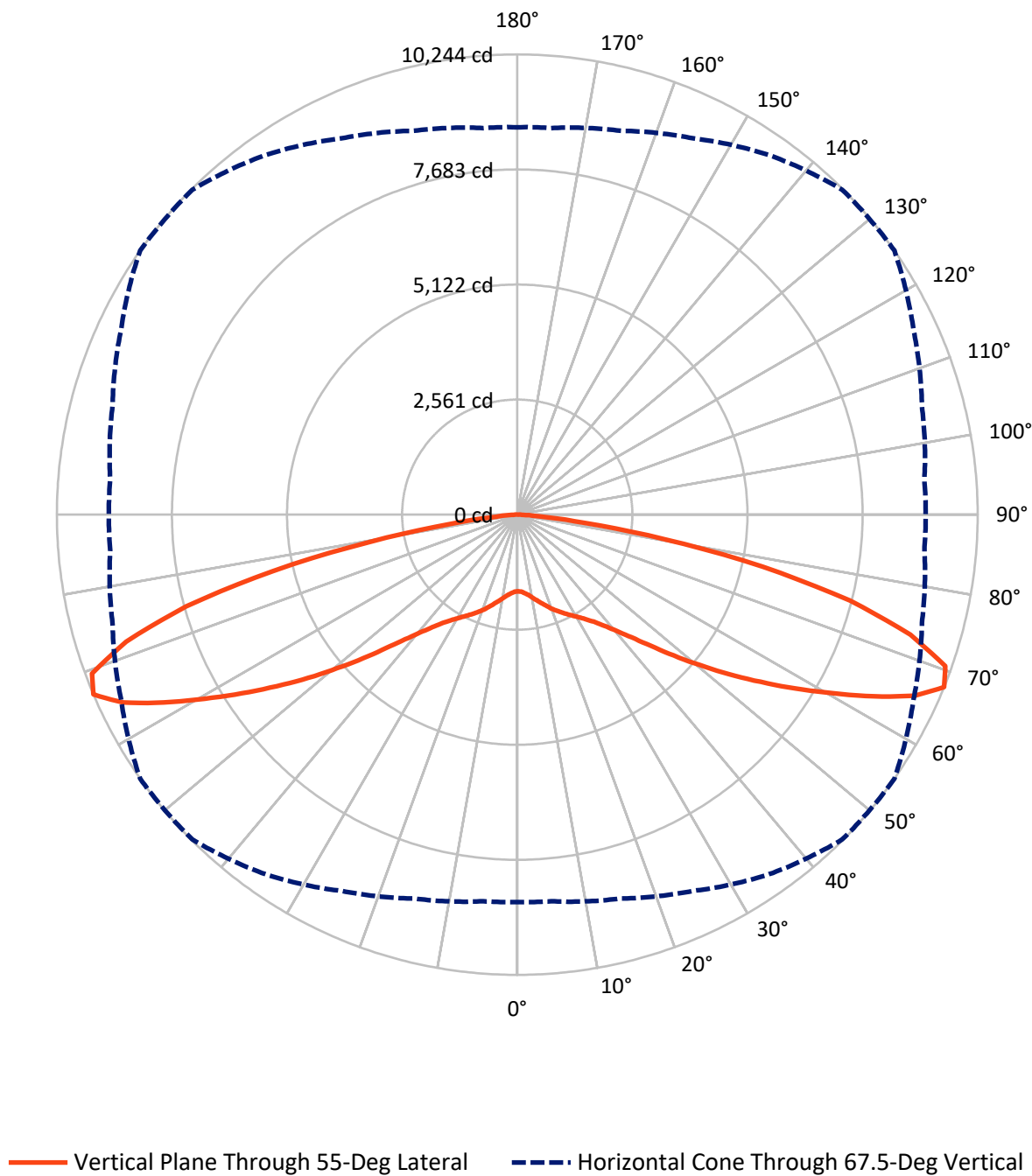


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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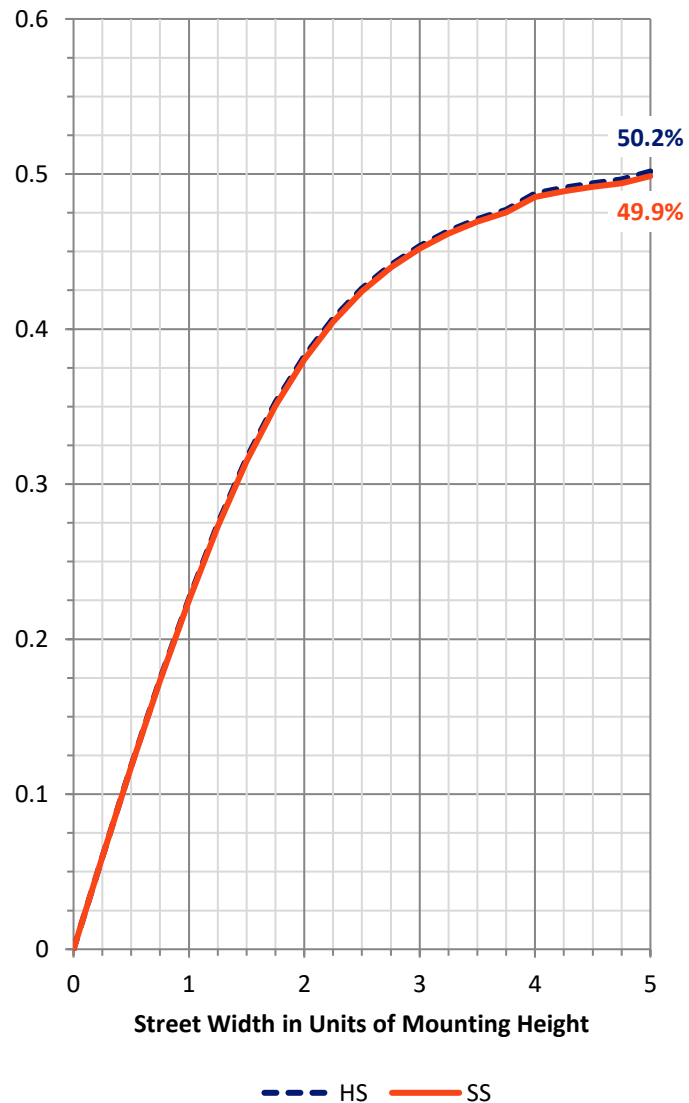
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14710.5	0.0	14710.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14710.5	0.0	14710.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29421.0	0.0	29421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	0.6
10°-20°	585.4	2.0
20°-30°	1125.6	3.8
30°-40°	1843.9	6.3
40°-50°	3205.5	10.9
50°-60°	5721.5	19.4
60°-70°	8833.7	30.0
70°-80°	7150.9	24.3
80°-90°	783.3	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°	29421.0	100.0
0°-180°	29421.0	100.0

Coefficient of Utilization



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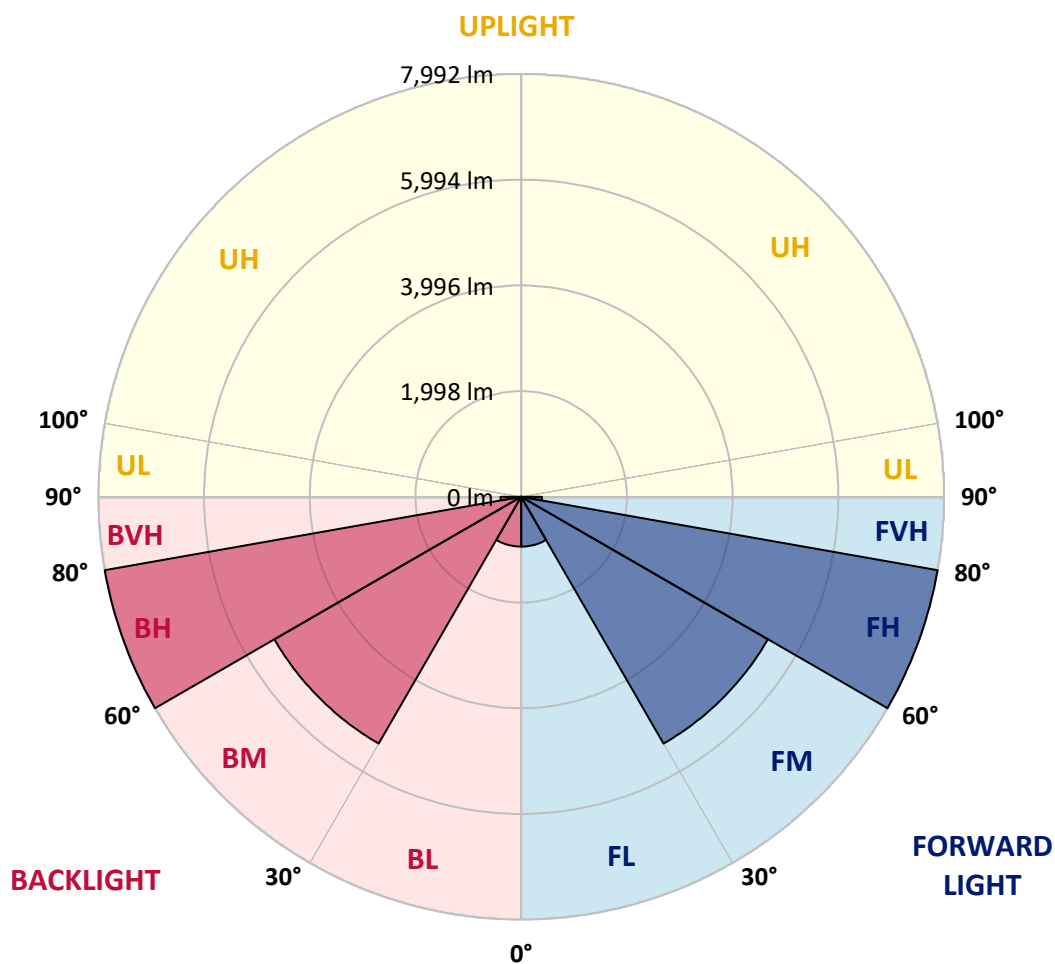
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.1	3.2			
FM	(30°-60°)	5385.4	18.3			
FH	(60°-80°)	7992.3	27.2			G4/12000
FVH	(80°-90°)	391.7	1.3			G3/500
BL	(0°-30°)	941.1	3.2	B2/1000		
BM	(30°-60°)	5385.4	18.3	B4/8500		
BH	(60°-80°)	7992.3	27.2	B5		G4/12000
BVH	(80°-90°)	391.7	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°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1718.2	1720.1	1718.2	1718.2	1716.3	1716.3	1716.3	1718.2	1718.2	1721.9	1720.1
5°	1753.6	1755.5	1751.8	1755.5	1755.5	1757.3	1755.5	1753.6	1755.5	1757.3	1751.8
7.5°	1803.9	1807.7	1805.8	1807.7	1809.5	1807.7	1807.7	1805.8	1809.5	1807.7	1803.9
10°	1869.2	1872.9	1871.0	1874.7	1876.6	1878.5	1878.5	1874.7	1872.9	1872.9	1871.0
12.5°	1947.4	1947.4	1947.4	1953.0	1956.7	1960.5	1958.6	1954.9	1949.3	1951.2	1943.7
15°	2033.2	2036.9	2036.9	2038.7	2048.1	2049.9	2048.1	2042.5	2040.6	2036.9	2033.2
17.5°	2128.2	2130.1	2131.9	2133.8	2145.0	2150.6	2143.1	2133.8	2133.8	2131.9	2131.9
20°	2227.0	2225.1	2228.8	2232.6	2240.0	2245.6	2243.7	2234.4	2227.0	2232.6	2230.7
22.5°	2318.3	2320.1	2322.0	2327.6	2340.6	2342.5	2336.9	2329.5	2320.1	2322.0	2322.0
25°	2404.0	2405.9	2409.6	2417.0	2432.0	2441.3	2433.8	2422.6	2409.6	2409.6	2411.5
27.5°	2491.6	2493.5	2495.3	2508.4	2527.0	2538.2	2532.6	2514.0	2499.0	2495.3	2489.7
30°	2588.5	2588.5	2592.2	2609.0	2633.2	2646.3	2638.8	2616.4	2594.1	2590.4	2590.4
32.5°	2711.5	2704.0	2709.6	2732.0	2758.1	2773.0	2767.4	2741.3	2713.4	2707.8	2707.8
35°	2858.7	2855.0	2858.7	2884.8	2916.5	2938.8	2925.8	2901.6	2871.8	2866.2	2862.4
37.5°	3033.9	3035.7	3046.9	3076.7	3119.6	3147.6	3134.5	3095.4	3060.0	3060.0	3060.0
40°	3255.7	3259.4	3281.7	3326.5	3388.0	3412.2	3397.3	3348.8	3307.8	3292.9	3296.6
42.5°	3557.5	3555.7	3591.1	3647.0	3719.7	3755.1	3730.9	3678.7	3619.0	3594.8	3596.7
45°	3913.5	3939.6	3976.9	4047.7	4139.0	4200.5	4157.6	4099.8	4010.4	3975.0	3973.1
47.5°	4344.0	4371.9	4418.5	4535.9	4645.9	4720.4	4686.9	4591.8	4463.2	4412.9	4394.3
50°	4834.1	4869.5	4929.1	5080.1	5236.6	5320.5	5260.8	5136.0	4998.1	4921.7	4903.0
52.5°	5385.7	5396.9	5486.3	5669.0	5862.8	5965.3	5898.2	5749.1	5572.1	5501.2	5449.1
55°	5997.0	6006.3	6108.8	6315.6	6535.5	6656.7	6570.9	6382.7	6218.7	6095.7	6106.9
57.5°	6563.5	6591.4	6742.4	6984.6	7243.7	7390.9	7297.7	7098.3	6926.9	6787.1	6803.9
60°	7169.1	7199.0	7357.4	7646.2	7996.6	8192.2	8071.1	7856.8	7679.8	7547.4	7530.7
62.5°	7812.1	7828.8	8002.2	8261.2	8708.4	9023.4	8907.8	8671.2	8464.3	8333.9	8320.8
65°	8406.5	8428.9	8576.1	8859.4	9319.7	9780.0	9714.8	9386.8	9107.2	8919.0	8892.9
67.5°	8622.7	8637.6	8844.5	9241.4	9770.7	10225.4	10244.0	9727.8	9321.6	9092.3	9086.7
70°	8369.3	8380.5	8645.1	9116.6	9791.2	10169.5	10102.4	9584.3	9084.9	8803.5	8775.5
72.5°	7800.9	7802.8	8045.0	8445.7	9122.2	9431.5	9146.4	8861.3	8345.1	8134.5	8078.6
75°	6766.6	6768.5	6936.2	7202.7	7685.3	7970.5	7646.2	7385.3	7081.6	6956.7	6891.5
77.5°	4653.3	4681.3	4854.6	5162.1	5691.3	6006.3	5581.4	5108.0	4923.5	4817.3	4754.0
80°	2240.0	2282.9	2482.3	2786.0	3339.5	3842.7	3319.0	2735.7	2376.0	2083.5	2135.6
82.5°	598.2	605.7	777.1	1116.3	1556.1	1826.3	1483.4	1038.0	654.1	439.8	402.5
85°	158.4	167.7	234.8	322.4	490.1	624.3	477.1	303.8	231.1	171.4	156.5
87.5°	42.9	50.3	82.0	98.8	123.0	98.8	123.0	106.2	102.5	54.0	39.1
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)