

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: P157590

Luminaire Tested: **VST-E07-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157590
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-E07-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (147) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22102.5 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 172.5
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



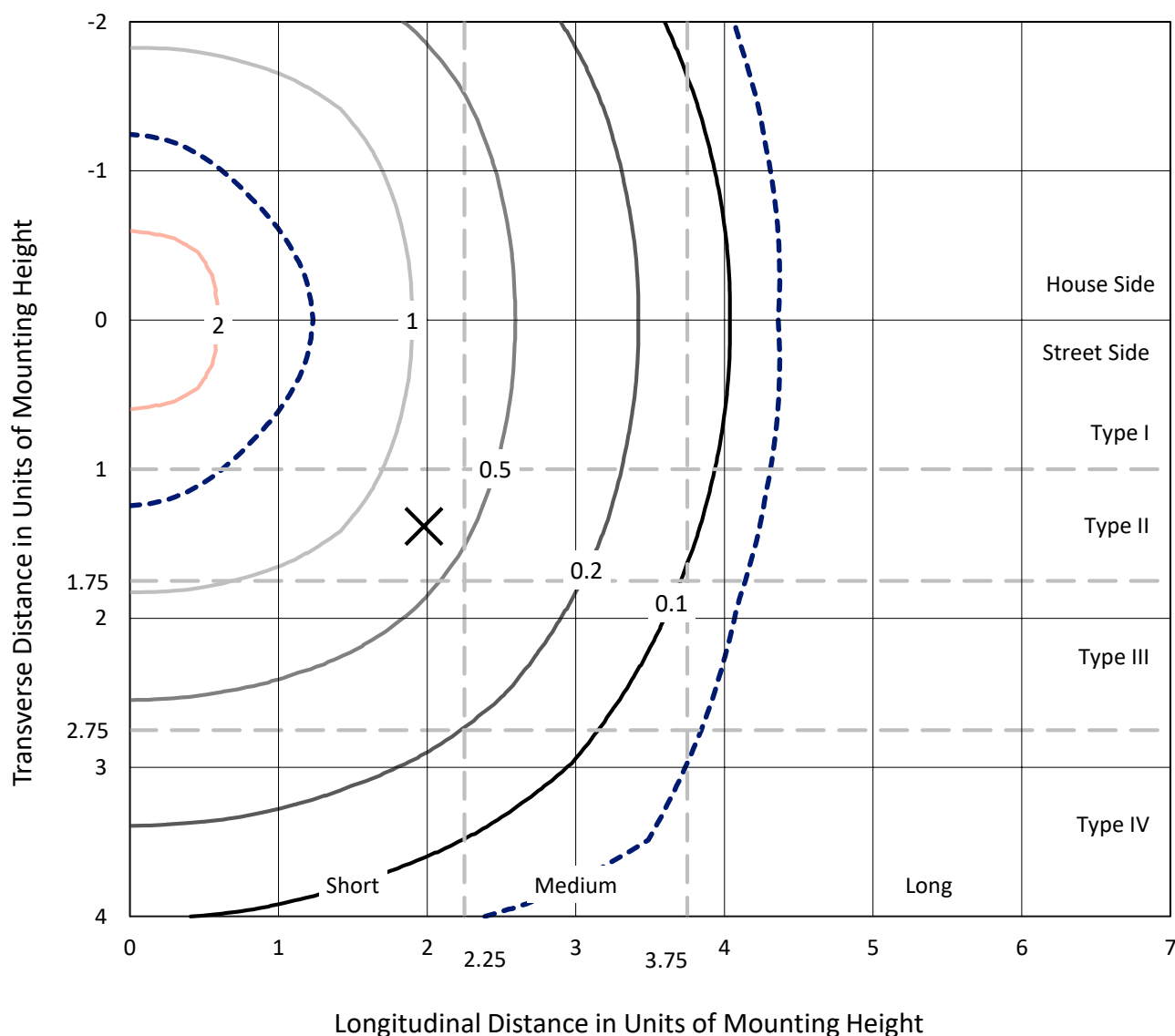
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

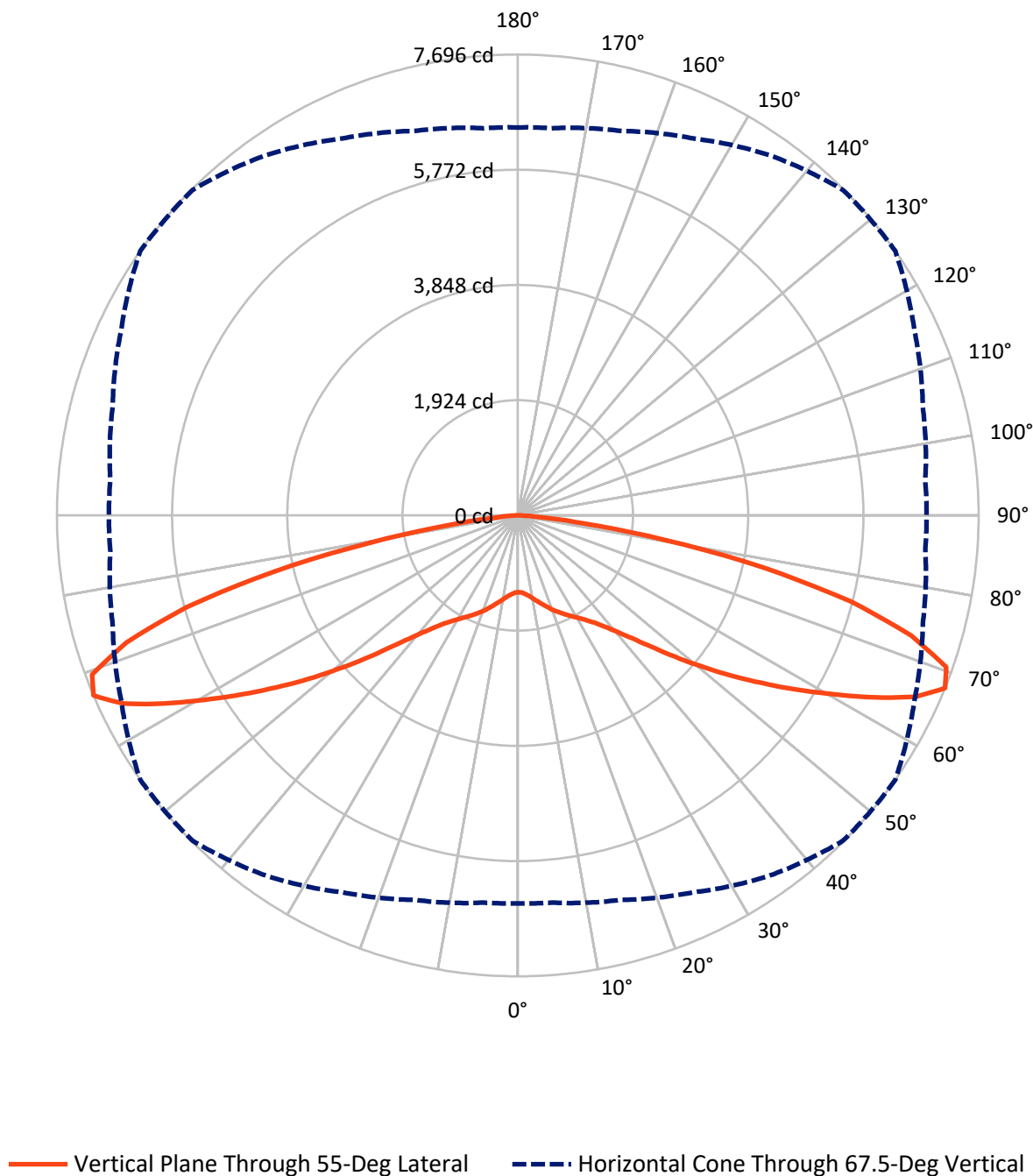


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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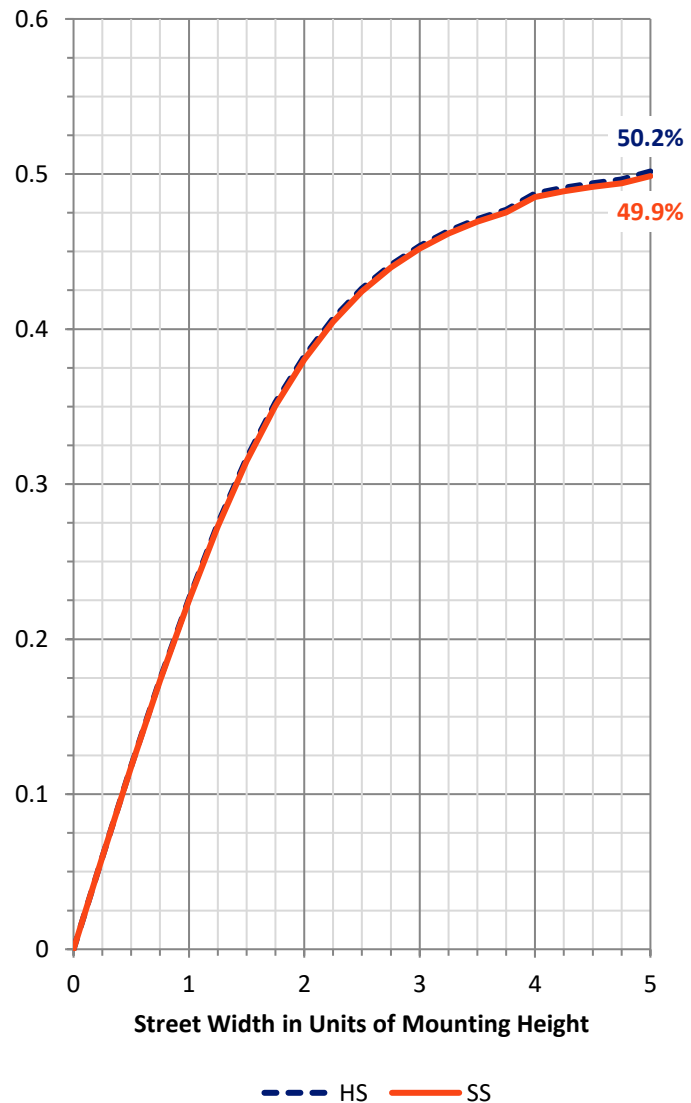
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11051.2	0.0	11051.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11051.2	0.0	11051.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	22102.5	0.0	22102.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	0.6
10°-20°	439.8	2.0
20°-30°	845.6	3.8
30°-40°	1385.2	6.3
40°-50°	2408.1	10.9
50°-60°	4298.3	19.4
60°-70°	6636.3	30.0
70°-80°	5372.1	24.3
80°-90°	588.5	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°	22102.5	100.0
0°-180°	22102.5	100.0

Coefficient of Utilization



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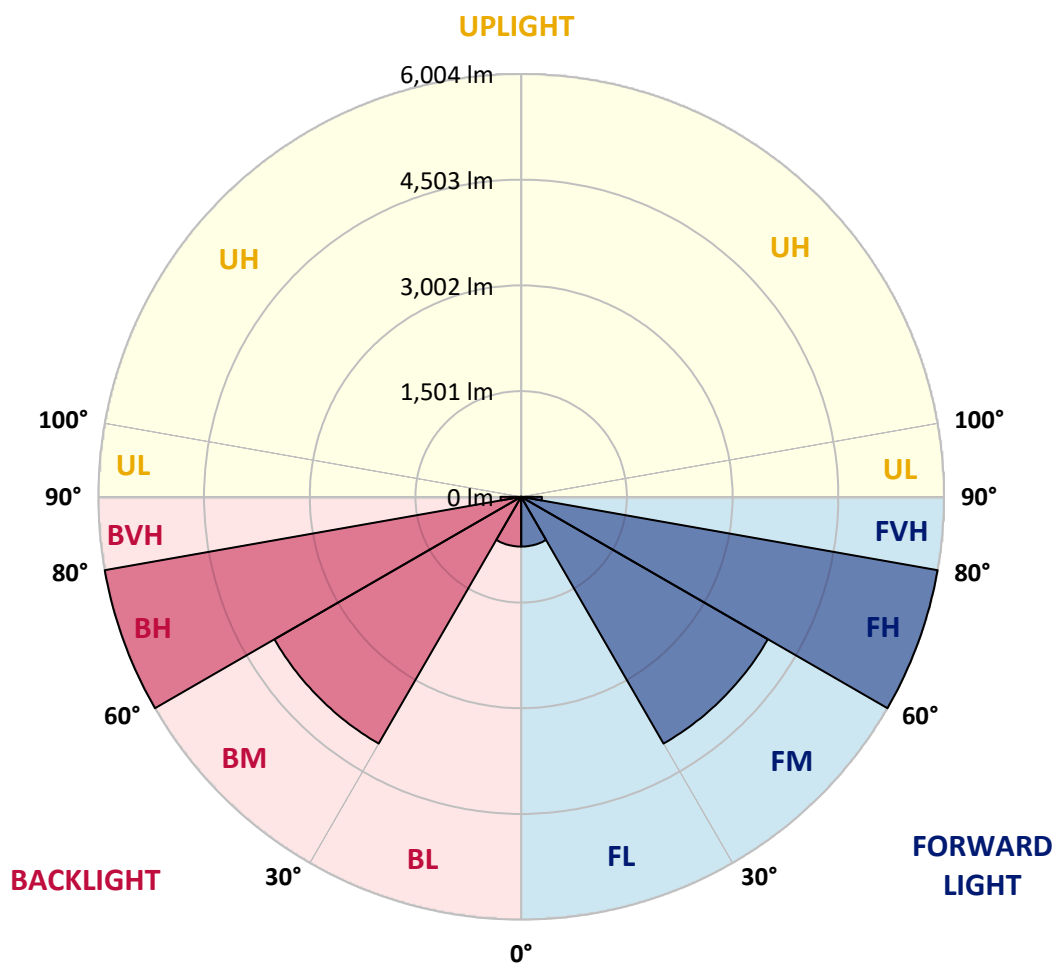
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.0	3.2			
FM	(30°-60°)	4045.8	18.3			
FH	(60°-80°)	6004.2	27.2			G3/7500
FVH	(80°-90°)	294.2	1.3			G3/500
BL	(0°-30°)	707.0	3.2	B2/1000		
BM	(30°-60°)	4045.8	18.3	B3/5000		
BH	(60°-80°)	6004.2	27.2	B5		G3/7500
BVH	(80°-90°)	294.2	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°	1282.4	1282.4	1282.4	1282.4	1282.4	1282.4	1282.4	1282.4	1282.4	1282.4	1282.4
2.5°	1290.8	1292.2	1290.8	1290.8	1289.4	1289.4	1289.4	1290.8	1290.8	1293.6	1292.2
5°	1317.4	1318.8	1316.0	1318.8	1318.8	1320.2	1318.8	1317.4	1318.8	1320.2	1316.0
7.5°	1355.2	1358.0	1356.6	1358.0	1359.4	1358.0	1358.0	1356.6	1359.4	1358.0	1355.2
10°	1404.2	1407.0	1405.6	1408.4	1409.8	1411.2	1411.2	1408.4	1407.0	1407.0	1405.6
12.5°	1463.0	1463.0	1463.0	1467.2	1470.0	1472.8	1471.4	1468.6	1464.4	1465.8	1460.2
15°	1527.4	1530.2	1530.2	1531.6	1538.6	1540.0	1538.6	1534.4	1533.0	1530.2	1527.4
17.5°	1598.8	1600.2	1601.6	1603.0	1611.4	1615.6	1610.0	1603.0	1603.0	1601.6	1601.6
20°	1673.0	1671.6	1674.4	1677.2	1682.8	1687.0	1685.6	1678.6	1673.0	1677.2	1675.8
22.5°	1741.6	1743.0	1744.4	1748.6	1758.4	1759.8	1755.6	1750.0	1743.0	1744.4	1744.4
25°	1806.0	1807.4	1810.2	1815.8	1827.0	1834.0	1828.4	1820.0	1810.2	1810.2	1811.6
27.5°	1871.8	1873.2	1874.6	1884.4	1898.4	1906.8	1902.6	1888.6	1877.4	1874.6	1870.4
30°	1944.6	1944.6	1947.4	1960.0	1978.2	1988.0	1982.4	1965.6	1948.8	1946.0	1946.0
32.5°	2037.0	2031.4	2035.6	2052.4	2072.0	2083.2	2079.0	2059.4	2038.4	2034.2	2034.2
35°	2147.6	2144.8	2147.6	2167.2	2191.0	2207.8	2198.0	2179.8	2157.4	2153.2	2150.4
37.5°	2279.2	2280.6	2289.0	2311.4	2343.6	2364.6	2354.8	2325.4	2298.8	2298.8	2298.8
40°	2445.8	2448.6	2465.4	2499.0	2545.2	2563.4	2552.2	2515.8	2485.0	2473.8	2476.6
42.5°	2672.6	2671.2	2697.8	2739.8	2794.4	2821.0	2802.8	2763.6	2718.8	2700.6	2702.0
45°	2940.0	2959.6	2987.6	3040.8	3109.4	3155.6	3123.4	3080.0	3012.8	2986.2	2984.8
47.5°	3263.4	3284.4	3319.4	3407.6	3490.2	3546.2	3521.0	3449.6	3353.0	3315.2	3301.2
50°	3631.6	3658.2	3703.0	3816.4	3934.0	3997.0	3952.2	3858.4	3754.8	3697.4	3683.4
52.5°	4046.0	4054.4	4121.6	4258.8	4404.4	4481.4	4431.0	4319.0	4186.0	4132.8	4093.6
55°	4505.2	4512.2	4589.2	4744.6	4909.8	5000.8	4936.4	4795.0	4671.8	4579.4	4587.8
57.5°	4930.8	4951.8	5065.2	5247.2	5441.8	5552.4	5482.4	5332.6	5203.8	5098.8	5111.4
60°	5385.8	5408.2	5527.2	5744.2	6007.4	6154.4	6063.4	5902.4	5769.4	5670.0	5657.4
62.5°	5868.8	5881.4	6011.6	6206.2	6542.2	6778.8	6692.0	6514.2	6358.8	6260.8	6251.0
65°	6315.4	6332.2	6442.8	6655.6	7001.4	7347.2	7298.2	7051.8	6841.8	6700.4	6680.8
67.5°	6477.8	6489.0	6644.4	6942.6	7340.2	7681.8	7695.8	7308.0	7002.8	6830.6	6826.4
70°	6287.4	6295.8	6494.6	6848.8	7355.6	7639.8	7589.4	7200.2	6825.0	6613.6	6592.6
72.5°	5860.4	5861.8	6043.8	6344.8	6853.0	7085.4	6871.2	6657.0	6269.2	6111.0	6069.0
75°	5083.4	5084.8	5210.8	5411.0	5773.6	5987.8	5744.2	5548.2	5320.0	5226.2	5177.2
77.5°	3495.8	3516.8	3647.0	3878.0	4275.6	4512.2	4193.0	3837.4	3698.8	3619.0	3571.4
80°	1682.8	1715.0	1864.8	2093.0	2508.8	2886.8	2493.4	2055.2	1785.0	1565.2	1604.4
82.5°	449.4	455.0	583.8	838.6	1169.0	1372.0	1114.4	779.8	491.4	330.4	302.4
85°	119.0	126.0	176.4	242.2	368.2	469.0	358.4	228.2	173.6	128.8	117.6
87.5°	32.2	37.8	61.6	74.2	92.4	74.2	92.4	79.8	77.0	40.6	29.4
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)