

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: P157605

Luminaire Tested: **VST-F08-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157605
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-F08-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (56) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20852.7 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 204.4
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



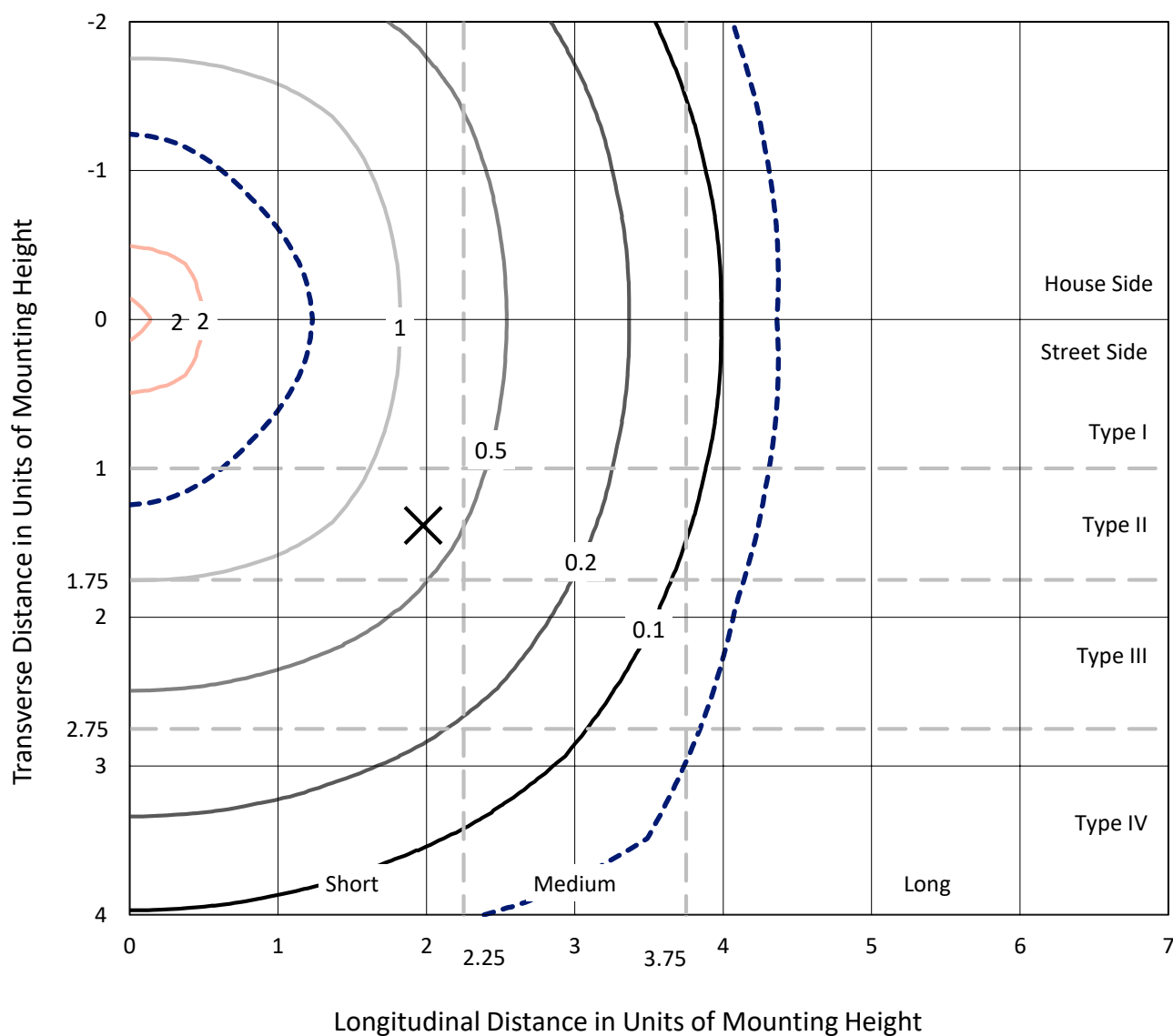
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

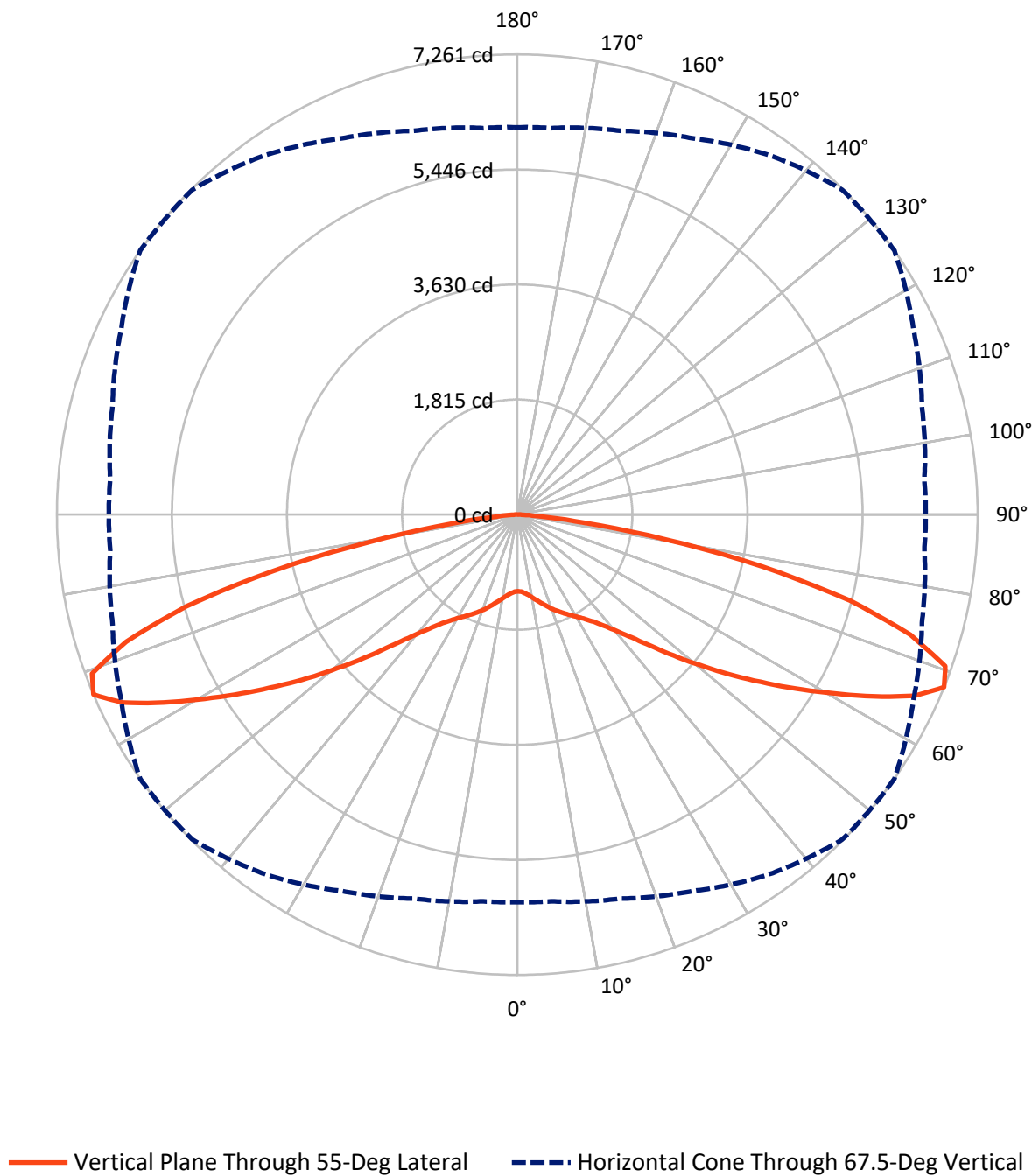


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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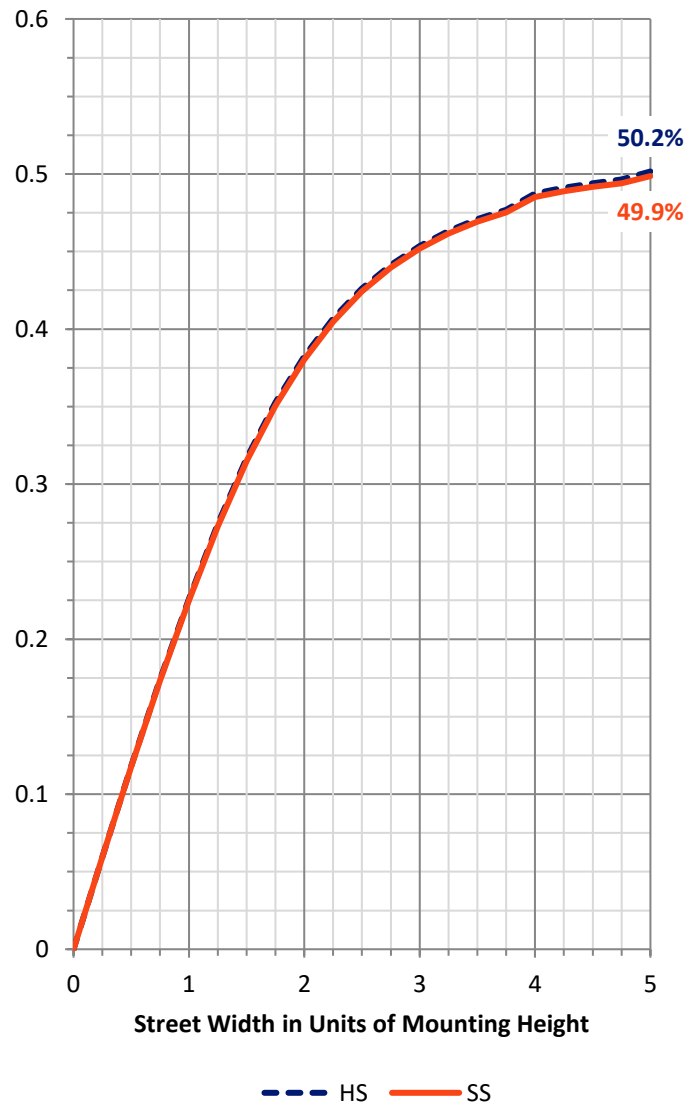
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10426.4	0.0	10426.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10426.4	0.0	10426.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	20852.7	0.0	20852.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	0.6
10°-20°	414.9	2.0
20°-30°	797.8	3.8
30°-40°	1306.9	6.3
40°-50°	2271.9	10.9
50°-60°	4055.2	19.4
60°-70°	6261.0	30.0
70°-80°	5068.3	24.3
80°-90°	555.2	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°	20852.7	100.0
0°-180°	20852.7	100.0

Coefficient of Utilization



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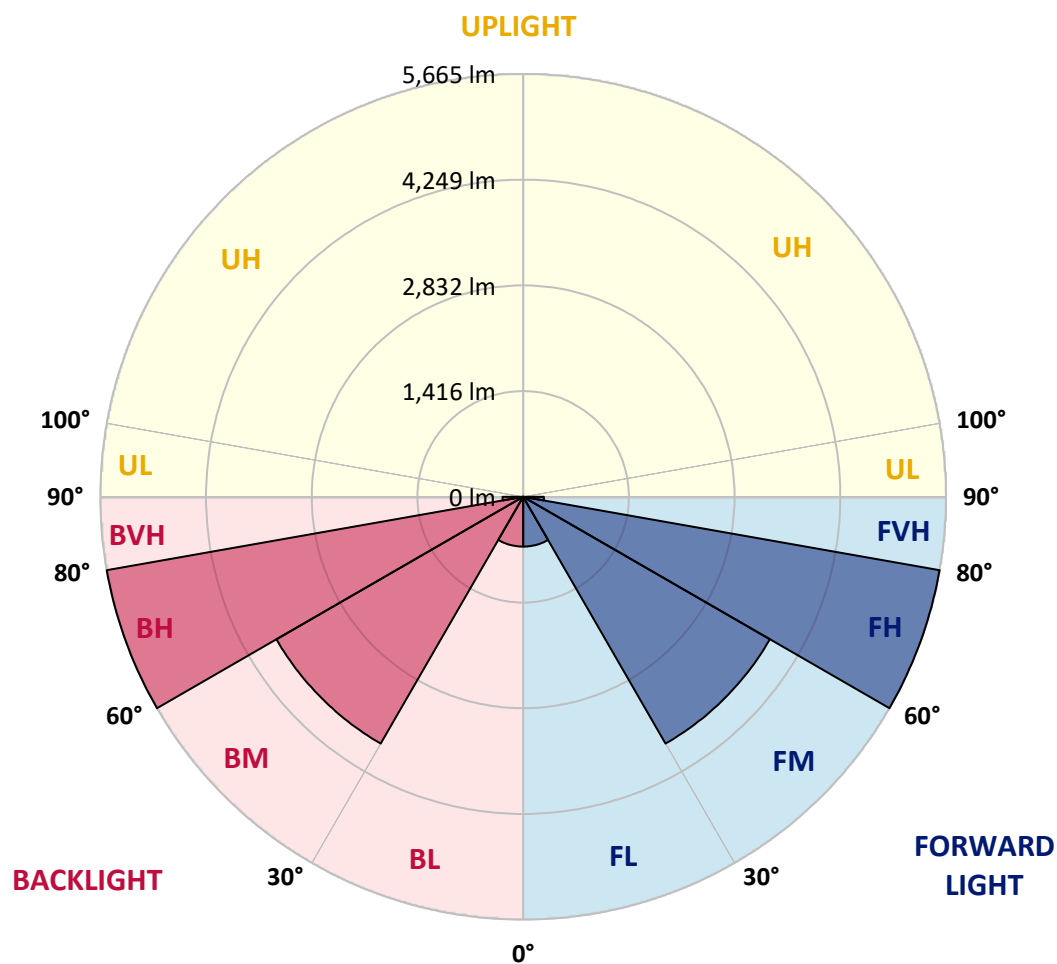
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.1	3.2			
FM	(30°-60°)	3817.0	18.3			
FH	(60°-80°)	5664.7	27.2			G3/7500
FVH	(80°-90°)	277.6	1.3			G3/500
BL	(0°-30°)	667.1	3.2	B2/1000		
BM	(30°-60°)	3817.0	18.3	B3/5000		
BH	(60°-80°)	5664.7	27.2	B5		G3/7500
BVH	(80°-90°)	277.6	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°	1209.9	1209.9	1209.9	1209.9	1209.9	1209.9	1209.9	1209.9	1209.9	1209.9	1209.9
2.5°	1217.8	1219.1	1217.8	1217.8	1216.5	1216.5	1216.5	1217.8	1217.8	1220.5	1219.1
5°	1242.9	1244.2	1241.6	1244.2	1244.2	1245.6	1244.2	1242.9	1244.2	1245.6	1241.6
7.5°	1278.6	1281.2	1279.9	1281.2	1282.5	1281.2	1281.2	1279.9	1282.5	1281.2	1278.6
10°	1324.8	1327.4	1326.1	1328.8	1330.1	1331.4	1331.4	1328.8	1327.4	1327.4	1326.1
12.5°	1380.3	1380.3	1380.3	1384.2	1386.9	1389.5	1388.2	1385.6	1381.6	1382.9	1377.6
15°	1441.0	1443.7	1443.7	1445.0	1451.6	1452.9	1451.6	1447.6	1446.3	1443.7	1441.0
17.5°	1508.4	1509.7	1511.0	1512.4	1520.3	1524.2	1519.0	1512.4	1512.4	1511.0	1511.0
20°	1578.4	1577.1	1579.7	1582.4	1587.6	1591.6	1590.3	1583.7	1578.4	1582.4	1581.0
22.5°	1643.1	1644.4	1645.8	1649.7	1659.0	1660.3	1656.3	1651.0	1644.4	1645.8	1645.8
25°	1703.9	1705.2	1707.8	1713.1	1723.7	1730.3	1725.0	1717.1	1707.8	1707.8	1709.2
27.5°	1766.0	1767.3	1768.6	1777.9	1791.1	1799.0	1795.0	1781.8	1771.2	1768.6	1764.6
30°	1834.6	1834.6	1837.3	1849.2	1866.3	1875.6	1870.3	1854.5	1838.6	1836.0	1836.0
32.5°	1921.8	1916.5	1920.5	1936.4	1954.8	1965.4	1961.4	1943.0	1923.1	1919.2	1919.2
35°	2026.2	2023.5	2026.2	2044.7	2067.1	2083.0	2073.7	2056.5	2035.4	2031.5	2028.8
37.5°	2150.3	2151.6	2159.6	2180.7	2211.1	2230.9	2221.7	2193.9	2168.8	2168.8	2168.8
40°	2307.5	2310.1	2326.0	2357.7	2401.3	2418.5	2407.9	2373.5	2344.5	2333.9	2336.6
42.5°	2521.5	2520.2	2545.3	2584.9	2636.4	2661.5	2644.3	2607.3	2565.1	2547.9	2549.2
45°	2773.8	2792.3	2818.7	2868.9	2933.6	2977.2	2946.8	2905.8	2842.4	2817.4	2816.0
47.5°	3078.9	3098.7	3131.7	3214.9	3292.9	3345.7	3321.9	3254.5	3163.4	3127.7	3114.5
50°	3426.3	3451.4	3493.6	3600.6	3711.6	3771.0	3728.7	3640.2	3542.5	3488.3	3475.1
52.5°	3817.2	3825.2	3888.6	4018.0	4155.4	4228.0	4180.5	4074.8	3949.3	3899.1	3862.1
55°	4250.5	4257.1	4329.7	4476.3	4632.2	4718.0	4657.3	4523.9	4407.6	4320.5	4328.4
57.5°	4652.0	4671.8	4778.8	4950.5	5134.1	5238.5	5172.4	5031.1	4909.6	4810.5	4822.4
60°	5081.3	5102.4	5214.7	5419.4	5667.7	5806.4	5720.6	5568.7	5443.2	5349.4	5337.5
62.5°	5537.0	5548.8	5671.7	5855.3	6172.3	6395.5	6313.6	6145.9	5999.3	5906.8	5897.6
65°	5958.3	5974.2	6078.5	6279.3	6605.5	6931.8	6885.5	6653.1	6454.9	6321.5	6303.0
67.5°	6111.5	6122.1	6268.7	6550.0	6925.2	7247.4	7260.7	6894.8	6606.8	6444.4	6440.4
70°	5931.9	5939.8	6127.4	6461.5	6939.7	7207.8	7160.3	6793.1	6439.1	6239.6	6219.8
72.5°	5529.0	5530.4	5702.1	5986.0	6465.5	6684.8	6482.7	6280.6	5914.7	5765.5	5725.8
75°	4796.0	4797.3	4916.2	5105.0	5447.1	5649.2	5419.4	5234.5	5019.2	4930.7	4884.5
77.5°	3298.1	3317.9	3440.8	3658.7	4033.8	4257.1	3955.9	3620.4	3489.7	3414.4	3369.5
80°	1587.6	1618.0	1759.4	1974.7	2366.9	2723.6	2352.4	1939.0	1684.1	1476.7	1513.7
82.5°	424.0	429.3	550.8	791.2	1102.9	1294.4	1051.4	735.7	463.6	311.7	285.3
85°	112.3	118.9	166.4	228.5	347.4	442.5	338.1	215.3	163.8	121.5	111.0
87.5°	30.4	35.7	58.1	70.0	87.2	70.0	87.2	75.3	72.6	38.3	27.7
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)