

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: P157643

Luminaire Tested: **VST-F12-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157643
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-F12-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26399.3 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 306.6
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

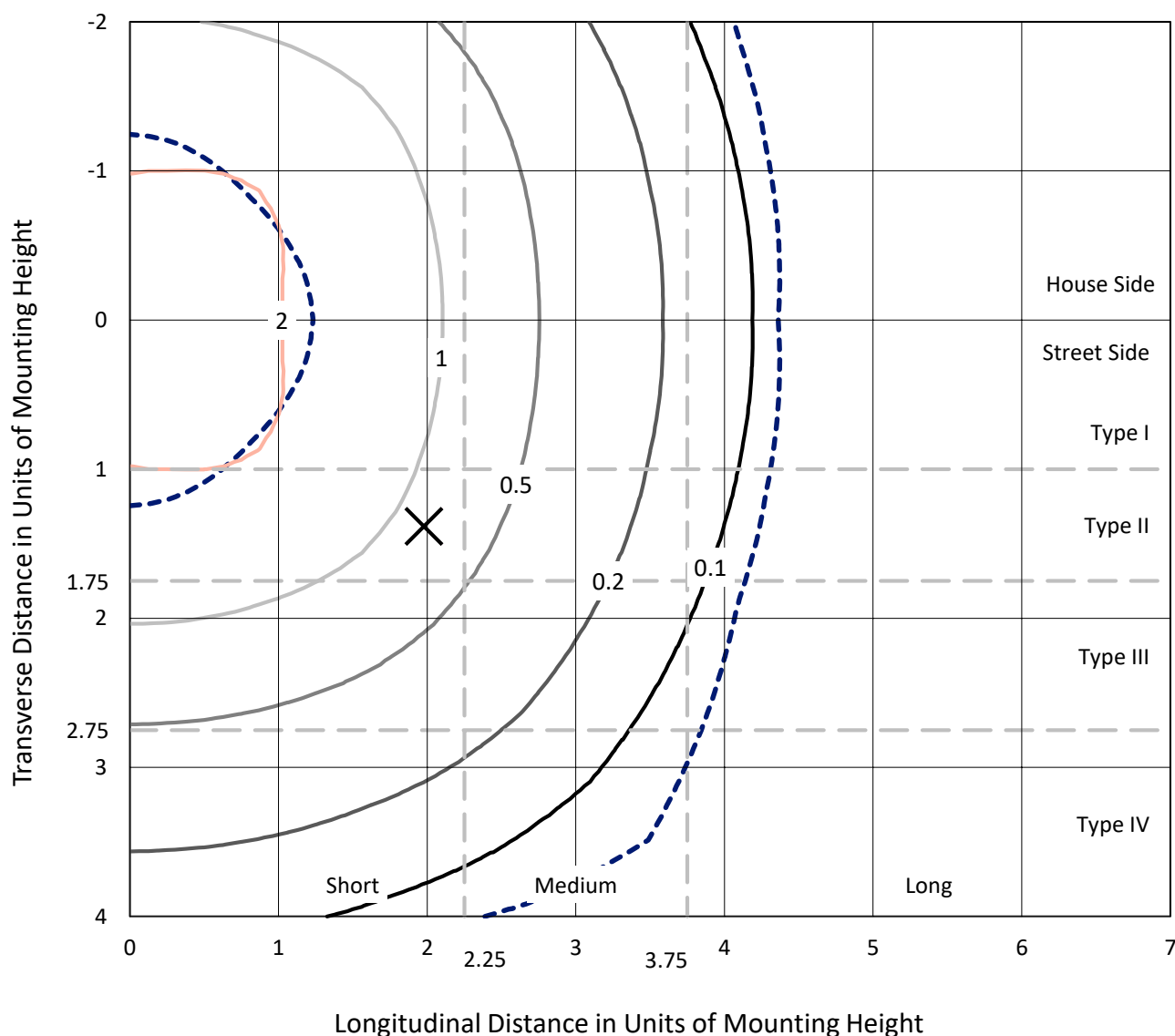


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

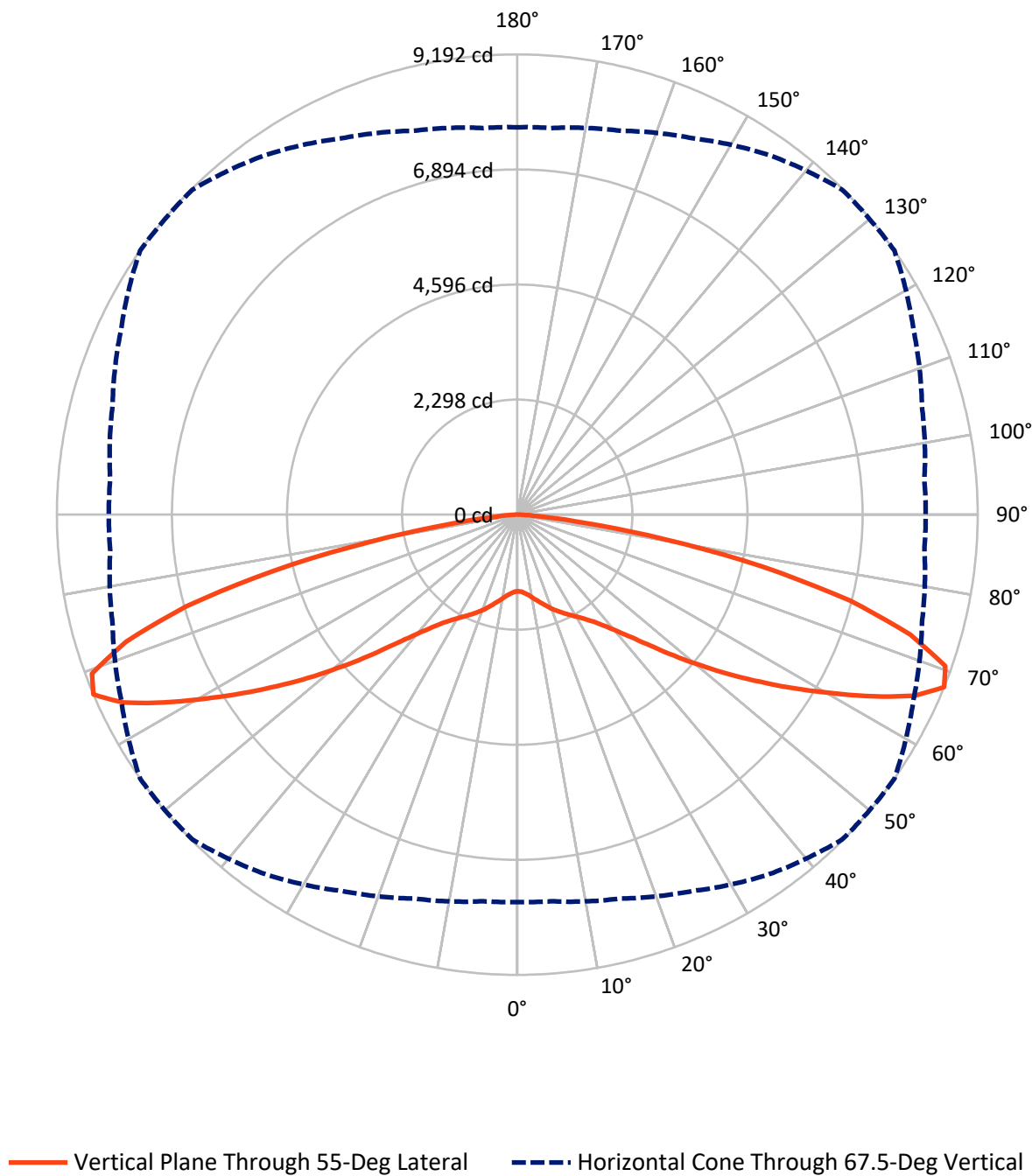


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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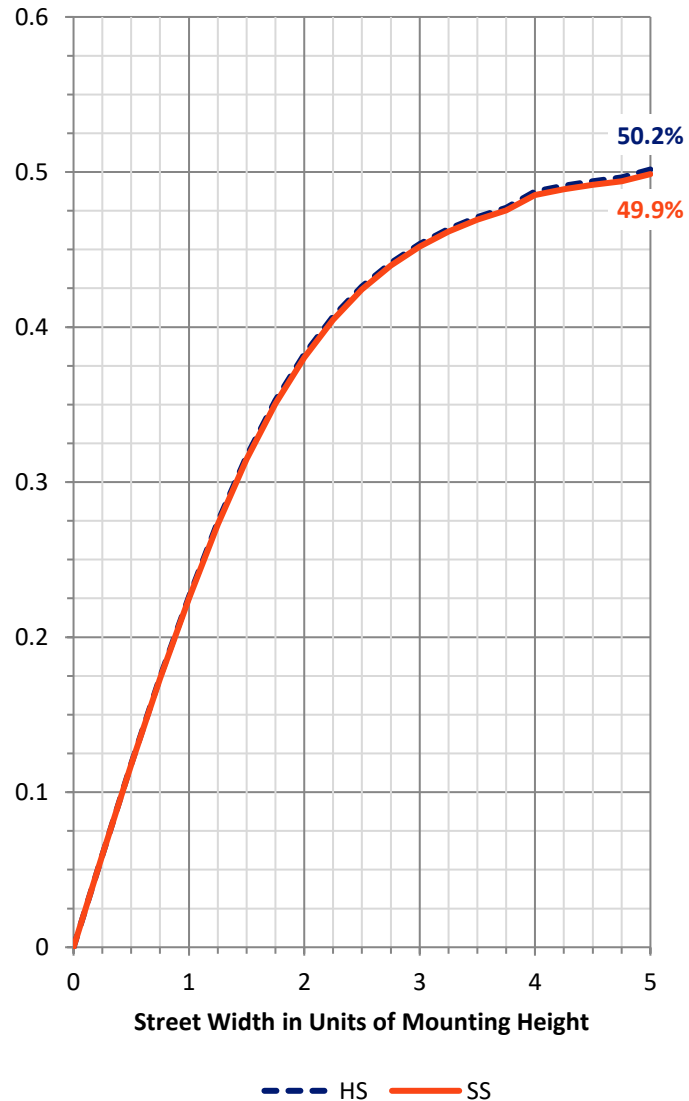
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13199.6	0.0	13199.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13199.6	0.0	13199.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	26399.3	0.0	26399.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	0.6
10°-20°	525.3	2.0
20°-30°	1010.0	3.8
30°-40°	1654.5	6.3
40°-50°	2876.2	10.9
50°-60°	5133.9	19.4
60°-70°	7926.4	30.0
70°-80°	6416.4	24.3
80°-90°	702.9	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°	26399.3	100.0
0°-180°	26399.3	100.0

Coefficient of Utilization



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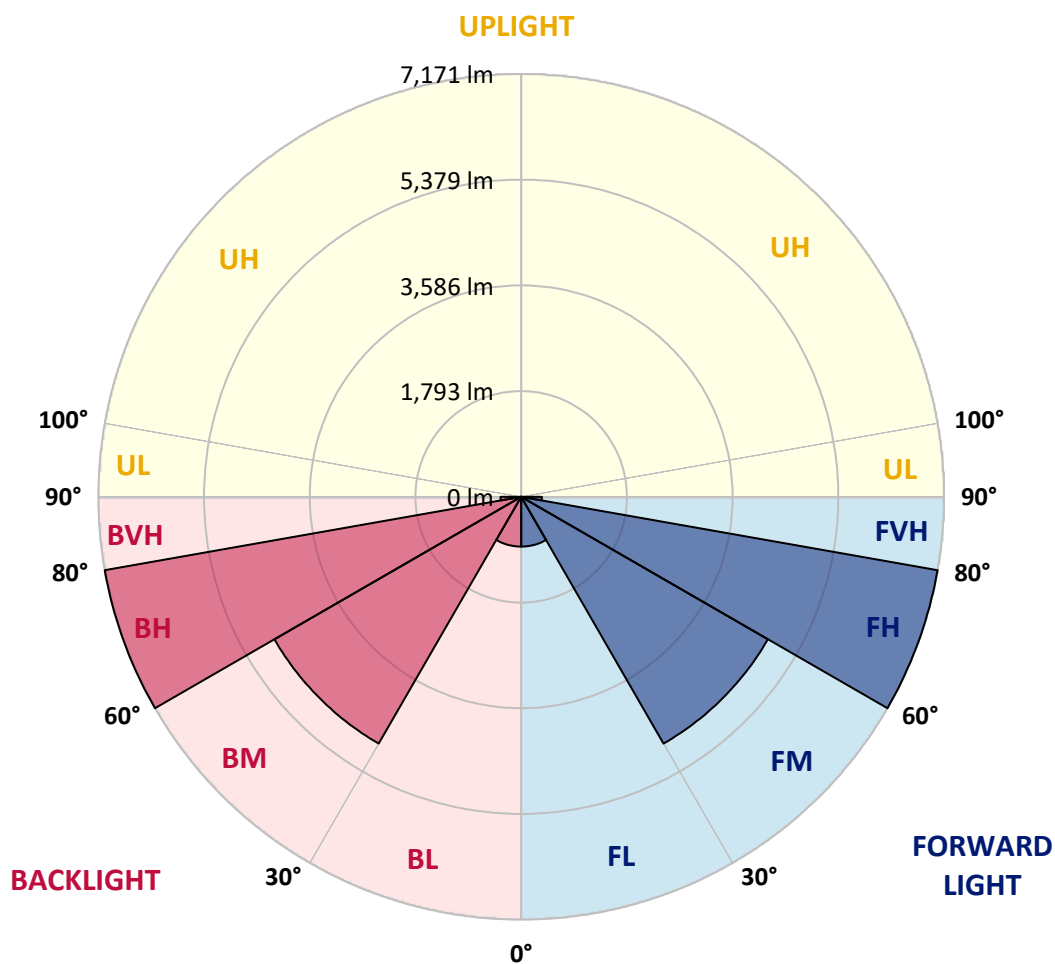
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.5	3.2			
FM	(30°-60°)	4832.3	18.3			
FH	(60°-80°)	7171.4	27.2			G3/7500
FVH	(80°-90°)	351.4	1.3			G3/500
BL	(0°-30°)	844.5	3.2	B2/1000		
BM	(30°-60°)	4832.3	18.3	B3/5000		
BH	(60°-80°)	7171.4	27.2	B5		G3/7500
BVH	(80°-90°)	351.4	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°	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1541.7	1543.4	1541.7	1541.7	1540.1	1540.1	1540.1	1541.7	1541.7	1545.1	1543.4
5°	1573.5	1575.2	1571.8	1575.2	1575.2	1576.9	1575.2	1573.5	1575.2	1576.9	1571.8
7.5°	1618.7	1622.0	1620.3	1622.0	1623.7	1622.0	1622.0	1620.3	1623.7	1622.0	1618.7
10°	1677.2	1680.5	1678.9	1682.2	1683.9	1685.5	1685.5	1682.2	1680.5	1680.5	1678.9
12.5°	1747.4	1747.4	1747.4	1752.4	1755.8	1759.1	1757.4	1754.1	1749.1	1750.8	1744.1
15°	1824.3	1827.7	1827.7	1829.3	1837.7	1839.4	1837.7	1832.7	1831.0	1827.7	1824.3
17.5°	1909.6	1911.3	1913.0	1914.6	1924.7	1929.7	1923.0	1914.6	1914.6	1913.0	1913.0
20°	1998.2	1996.6	1999.9	2003.3	2009.9	2015.0	2013.3	2004.9	1998.2	2003.3	2001.6
22.5°	2080.2	2081.8	2083.5	2088.5	2100.2	2101.9	2096.9	2090.2	2081.8	2083.5	2083.5
25°	2157.1	2158.8	2162.1	2168.8	2182.2	2190.5	2183.8	2173.8	2162.1	2162.1	2163.8
27.5°	2235.7	2237.4	2239.0	2250.7	2267.5	2277.5	2272.5	2255.8	2242.4	2239.0	2234.0
30°	2322.6	2322.6	2326.0	2341.0	2362.8	2374.5	2367.8	2347.7	2327.7	2324.3	2324.3
32.5°	2433.0	2426.3	2431.3	2451.4	2474.8	2488.2	2483.2	2459.8	2434.7	2429.7	2429.7
35°	2565.1	2561.8	2565.1	2588.5	2616.9	2637.0	2625.3	2603.6	2576.8	2571.8	2568.4
37.5°	2722.3	2724.0	2734.0	2760.7	2799.2	2824.3	2812.6	2777.5	2745.7	2745.7	2745.7
40°	2921.3	2924.6	2944.7	2984.8	3040.0	3061.7	3048.4	3004.9	2968.1	2954.7	2958.1
42.5°	3192.2	3190.5	3222.3	3272.4	3337.6	3369.4	3347.7	3300.9	3247.3	3225.6	3227.3
45°	3511.5	3535.0	3568.4	3631.9	3713.9	3769.1	3730.6	3678.8	3598.5	3566.7	3565.1
47.5°	3897.8	3922.9	3964.7	4070.1	4168.7	4235.6	4205.5	4120.2	4004.8	3959.7	3943.0
50°	4337.6	4369.4	4422.9	4558.3	4698.8	4774.0	4720.5	4608.5	4484.7	4416.2	4399.5
52.5°	4832.6	4842.6	4922.9	5086.7	5260.6	5352.6	5292.4	5158.6	4999.8	4936.2	4889.4
55°	5381.0	5389.4	5481.4	5667.0	5864.3	5973.0	5896.1	5727.2	5580.0	5469.7	5479.7
57.5°	5889.4	5914.4	6049.9	6267.3	6499.7	6631.8	6548.2	6369.3	6215.4	6090.0	6105.1
60°	6432.8	6459.6	6601.7	6860.9	7175.3	7350.8	7242.1	7049.8	6891.0	6772.3	6757.2
62.5°	7009.7	7024.8	7180.3	7412.7	7814.0	8096.6	7993.0	7780.6	7595.0	7477.9	7466.2
65°	7543.1	7563.2	7695.3	7949.5	8362.5	8775.5	8717.0	8422.7	8171.9	8003.0	7979.6
67.5°	7737.1	7750.5	7936.1	8292.3	8767.2	9175.2	9191.9	8728.7	8364.2	8158.5	8153.5
70°	7509.7	7519.7	7757.2	8180.2	8785.6	9125.0	9064.8	8599.9	8151.8	7899.3	7874.2
72.5°	6999.7	7001.4	7218.7	7578.3	8185.2	8462.8	8207.0	7951.1	7488.0	7299.0	7248.8
75°	6071.6	6073.3	6223.8	6462.9	6896.0	7151.9	6860.9	6626.8	6354.2	6242.2	6183.7
77.5°	4175.4	4200.5	4356.0	4631.9	5106.8	5389.4	5008.1	4583.4	4417.9	4322.5	4265.7
80°	2009.9	2048.4	2227.3	2499.9	2996.5	3448.0	2978.1	2454.7	2132.0	1869.5	1916.3
82.5°	536.8	543.5	697.3	1001.6	1396.3	1638.7	1331.0	931.4	586.9	394.6	361.2
85°	142.1	150.5	210.7	289.3	439.8	560.2	428.1	272.6	207.3	153.8	140.5
87.5°	38.5	45.1	73.6	88.6	110.4	88.6	110.4	95.3	92.0	48.5	35.1
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)