

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: P157635

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157635
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (77) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28672.5 lumens
Efficiency: N/A
Efficacy: 101.4 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

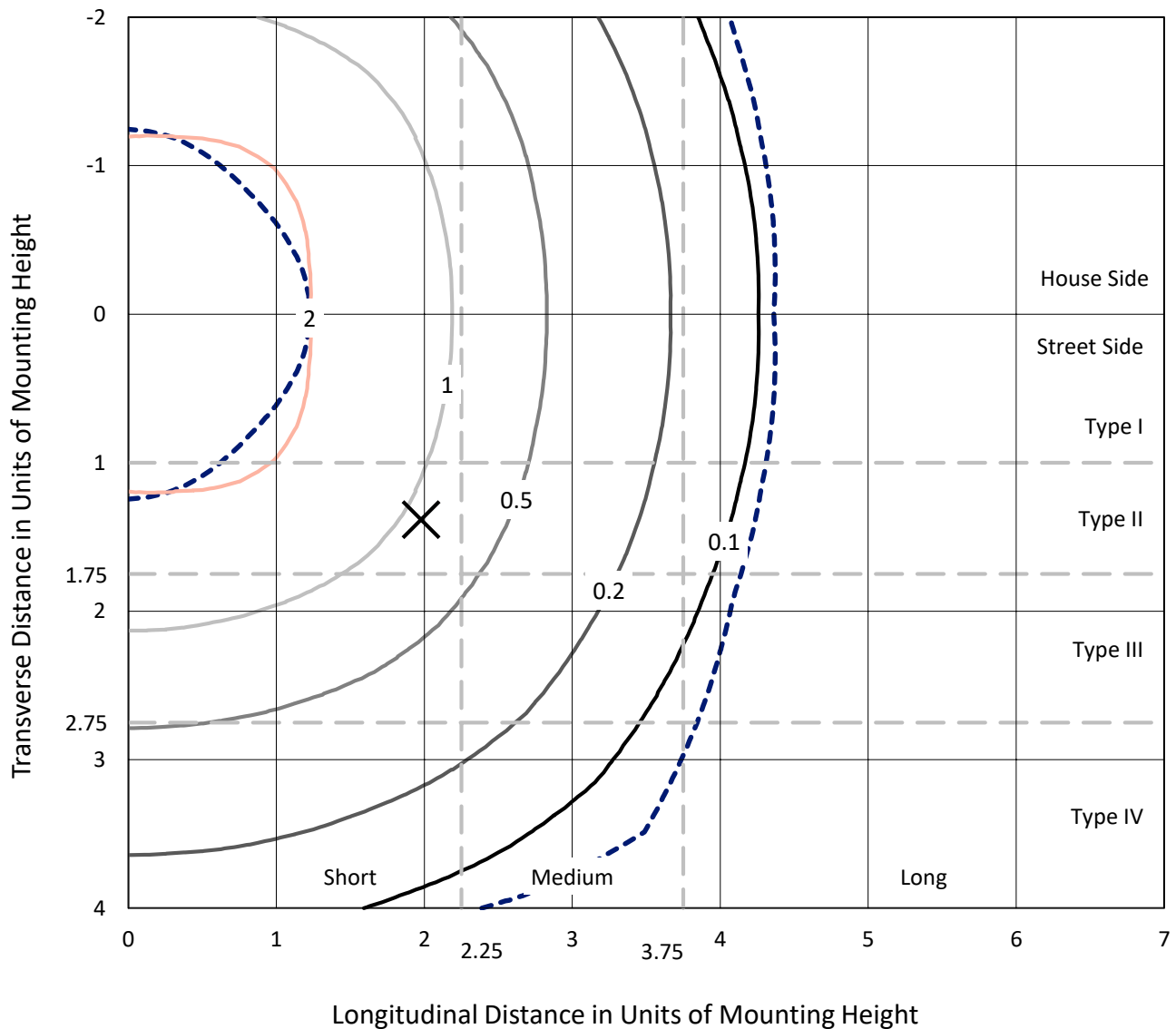


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

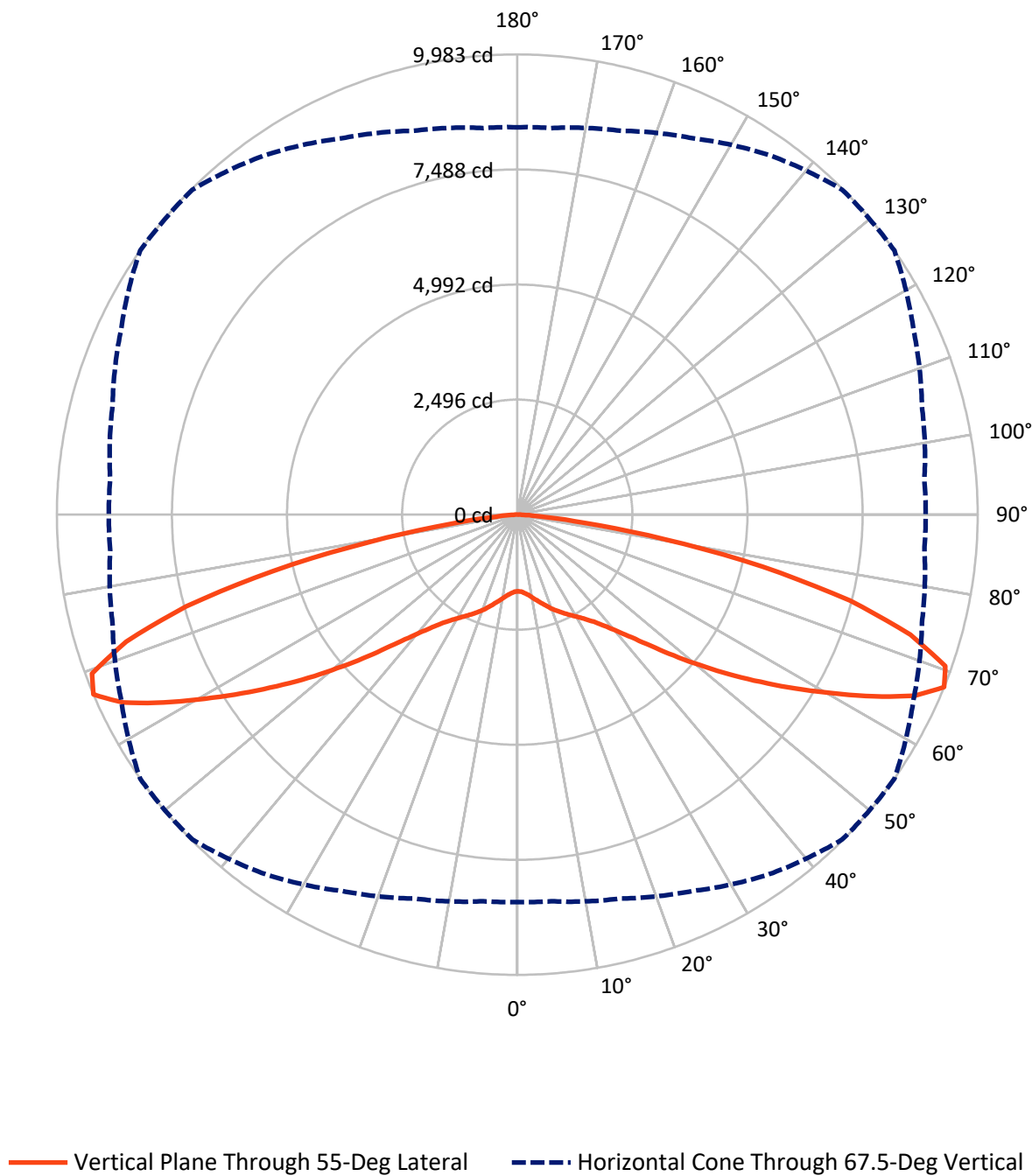


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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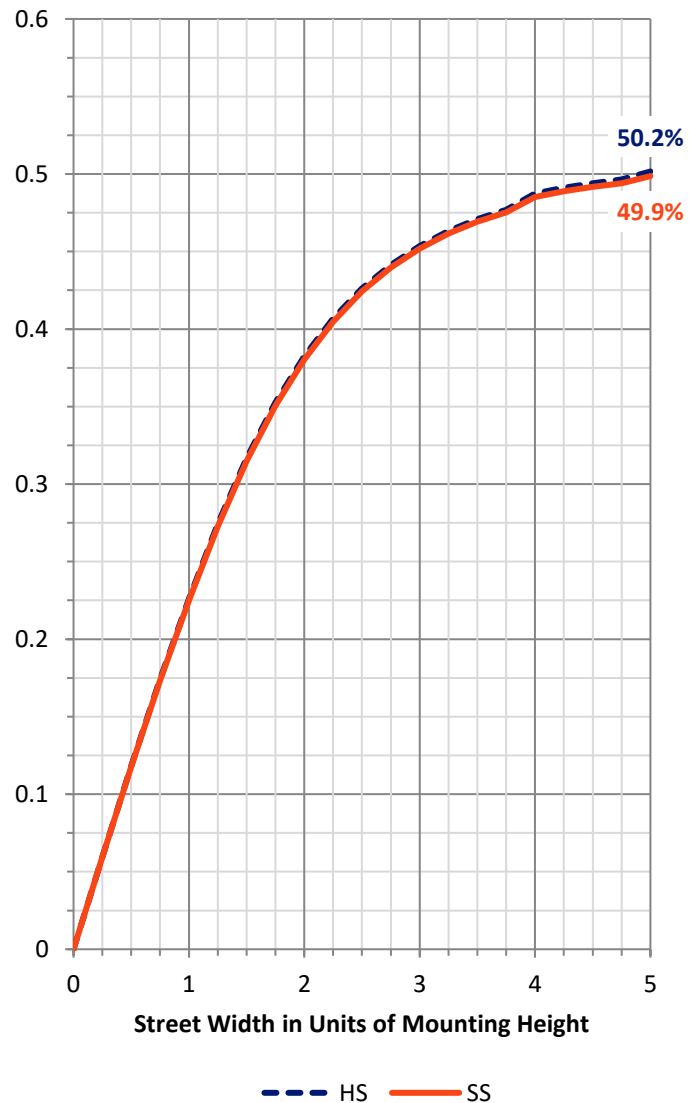
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14336.2	0.0	14336.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14336.2	0.0	14336.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28672.5	0.0	28672.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	0.6
10°-20°	570.5	2.0
20°-30°	1097.0	3.8
30°-40°	1797.0	6.3
40°-50°	3123.9	10.9
50°-60°	5575.9	19.4
60°-70°	8608.9	30.0
70°-80°	6968.9	24.3
80°-90°	763.4	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°	28672.5	100.0
0°-180°	28672.5	100.0

Coefficient of Utilization



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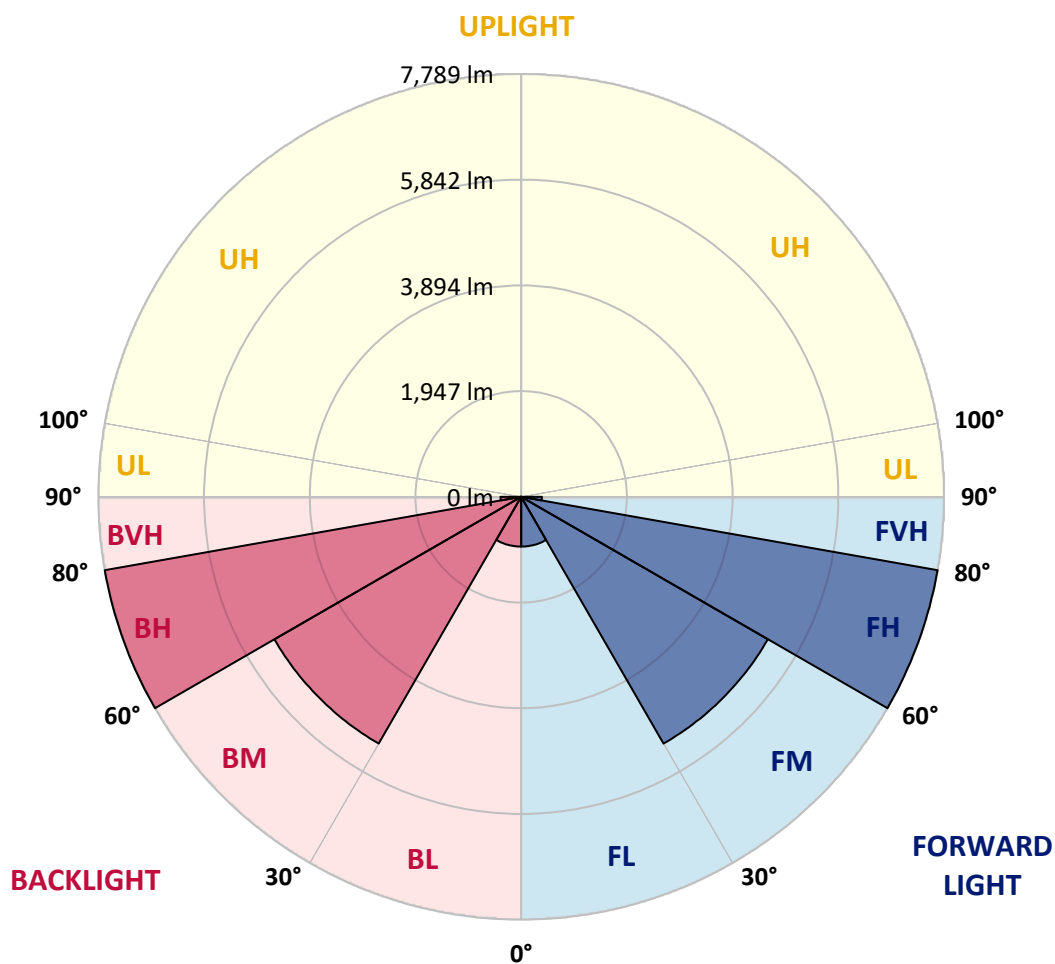
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	917.2	3.2			
FM	(30°-60°)	5248.4	18.3			
FH	(60°-80°)	7788.9	27.2			G4/12000
FVH	(80°-90°)	381.7	1.3			G3/500
BL	(0°-30°)	917.2	3.2	B2/1000		
BM	(30°-60°)	5248.4	18.3	B4/8500		
BH	(60°-80°)	7788.9	27.2	B5		G4/12000
BVH	(80°-90°)	381.7	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°	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6
2.5°	1674.5	1676.3	1674.5	1674.5	1672.7	1672.7	1672.7	1674.5	1674.5	1678.1	1676.3
5°	1709.0	1710.8	1707.2	1710.8	1710.8	1712.6	1710.8	1709.0	1710.8	1712.6	1707.2
7.5°	1758.0	1761.7	1759.9	1761.7	1763.5	1761.7	1761.7	1759.9	1763.5	1761.7	1758.0
10°	1821.6	1825.2	1823.4	1827.1	1828.9	1830.7	1830.7	1827.1	1825.2	1825.2	1823.4
12.5°	1897.9	1897.9	1897.9	1903.3	1907.0	1910.6	1908.8	1905.1	1899.7	1901.5	1894.2
15°	1981.4	1985.1	1985.1	1986.9	1996.0	1997.8	1996.0	1990.5	1988.7	1985.1	1981.4
17.5°	2074.0	2075.9	2077.7	2079.5	2090.4	2095.8	2088.6	2079.5	2079.5	2077.7	2077.7
20°	2170.3	2168.5	2172.1	2175.8	2183.0	2188.5	2186.7	2177.6	2170.3	2175.8	2173.9
22.5°	2259.3	2261.1	2262.9	2268.4	2281.1	2282.9	2277.5	2270.2	2261.1	2262.9	2262.9
25°	2342.8	2344.7	2348.3	2355.6	2370.1	2379.2	2371.9	2361.0	2348.3	2348.3	2350.1
27.5°	2428.2	2430.0	2431.8	2444.5	2462.7	2473.6	2468.2	2450.0	2435.5	2431.8	2426.4
30°	2522.6	2522.6	2526.3	2542.6	2566.2	2578.9	2571.7	2549.9	2528.1	2524.5	2524.5
32.5°	2642.5	2635.2	2640.7	2662.5	2687.9	2702.4	2697.0	2671.6	2644.3	2638.9	2638.9
35°	2786.0	2782.3	2786.0	2811.4	2842.3	2864.1	2851.4	2827.8	2798.7	2793.2	2789.6
37.5°	2956.7	2958.5	2969.4	2998.5	3040.2	3067.5	3054.8	3016.6	2982.1	2982.1	2982.1
40°	3172.8	3176.5	3198.2	3241.8	3301.8	3325.4	3310.9	3263.6	3223.7	3209.1	3212.8
42.5°	3467.0	3465.2	3499.7	3554.2	3625.0	3659.6	3635.9	3585.1	3527.0	3503.4	3505.2
45°	3813.9	3839.4	3875.7	3944.7	4033.7	4093.6	4051.8	3995.5	3908.4	3873.9	3872.0
47.5°	4233.5	4260.7	4306.1	4420.5	4527.7	4600.3	4567.6	4475.0	4349.7	4300.7	4282.5
50°	4711.1	4745.6	4803.7	4950.8	5103.4	5185.1	5127.0	5005.3	4870.9	4796.5	4778.3
52.5°	5248.7	5259.6	5346.8	5524.7	5713.6	5813.5	5748.1	5602.8	5430.3	5361.3	5310.4
55°	5844.4	5853.5	5953.4	6154.9	6369.3	6487.3	6403.8	6220.3	6060.5	5940.6	5951.5
57.5°	6396.5	6423.7	6570.8	6806.9	7059.4	7202.9	7112.1	6917.7	6750.6	6614.4	6630.8
60°	6986.7	7015.8	7170.2	7451.7	7793.1	7983.8	7865.8	7656.9	7484.4	7355.4	7339.1
62.5°	7613.3	7629.7	7798.6	8051.0	8486.9	8793.8	8681.2	8450.6	8249.0	8121.8	8109.1
65°	8192.7	8214.5	8357.9	8634.0	9082.6	9531.2	9467.6	9148.0	8875.5	8692.1	8666.7
67.5°	8403.3	8417.9	8619.5	9006.3	9522.1	9965.2	9983.4	9480.3	9084.4	8861.0	8855.6
70°	8156.4	8167.2	8425.1	8884.6	9542.1	9910.8	9845.4	9340.5	8853.8	8579.5	8552.3
72.5°	7602.4	7604.2	7840.3	8230.8	8890.1	9191.6	8913.7	8635.8	8132.7	7927.5	7873.0
75°	6594.5	6596.3	6759.7	7019.4	7489.8	7767.7	7451.7	7197.4	6901.4	6779.7	6716.1
77.5°	4534.9	4562.2	4731.1	5030.7	5546.5	5853.5	5439.4	4978.1	4798.3	4694.8	4633.0
80°	2183.0	2224.8	2419.1	2715.2	3254.5	3744.9	3234.6	2666.1	2315.6	2030.5	2081.3
82.5°	583.0	590.3	757.3	1087.9	1516.5	1779.8	1445.7	1011.6	637.5	428.6	392.3
85°	154.4	163.5	228.8	314.2	477.6	608.4	464.9	296.0	225.2	167.1	152.6
87.5°	41.8	49.0	79.9	96.3	119.9	96.3	119.9	103.5	99.9	52.7	38.1
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)