

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: P157644

Luminaire Tested: **VST-F12-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157644
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28568.7 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

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



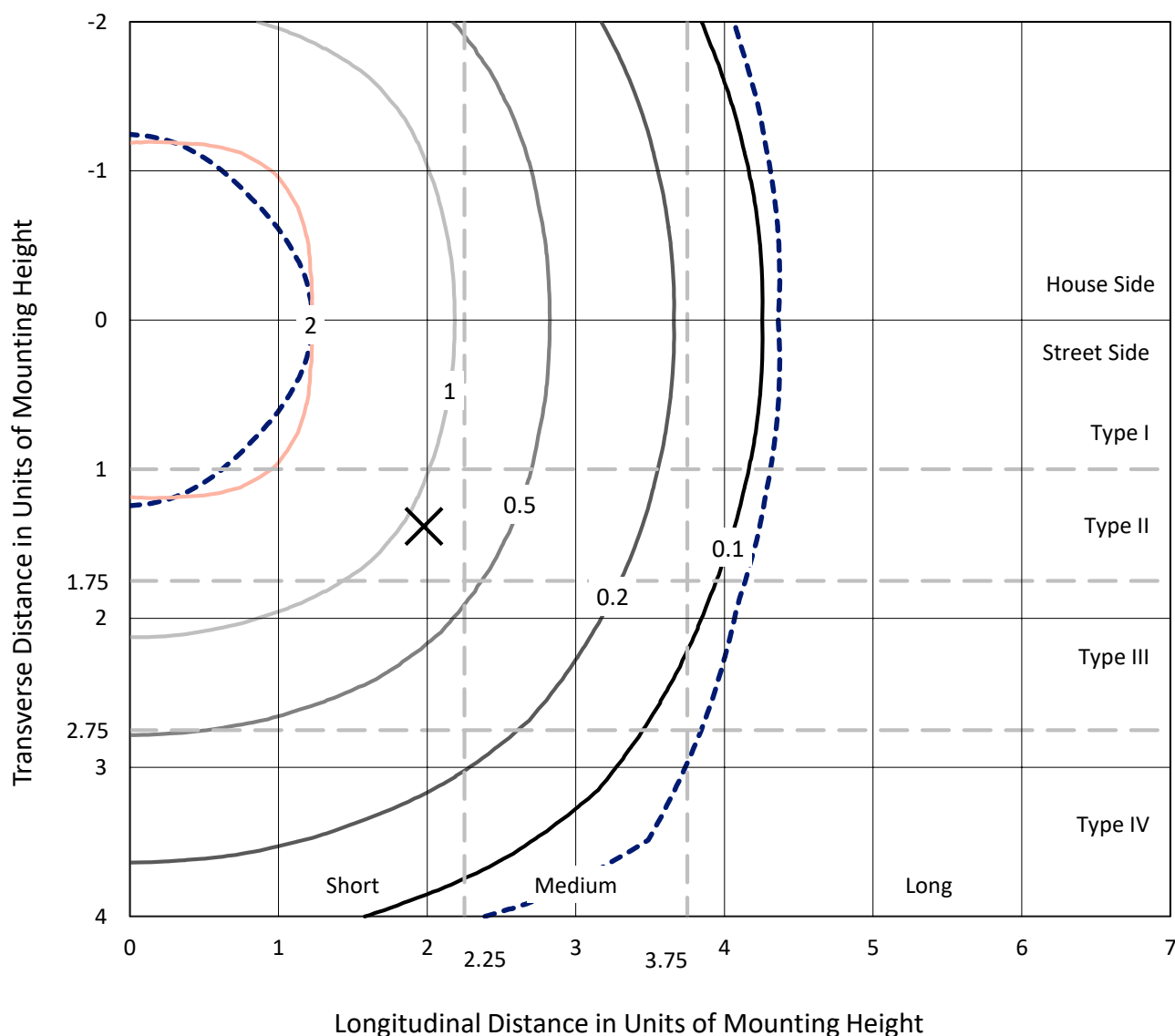
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

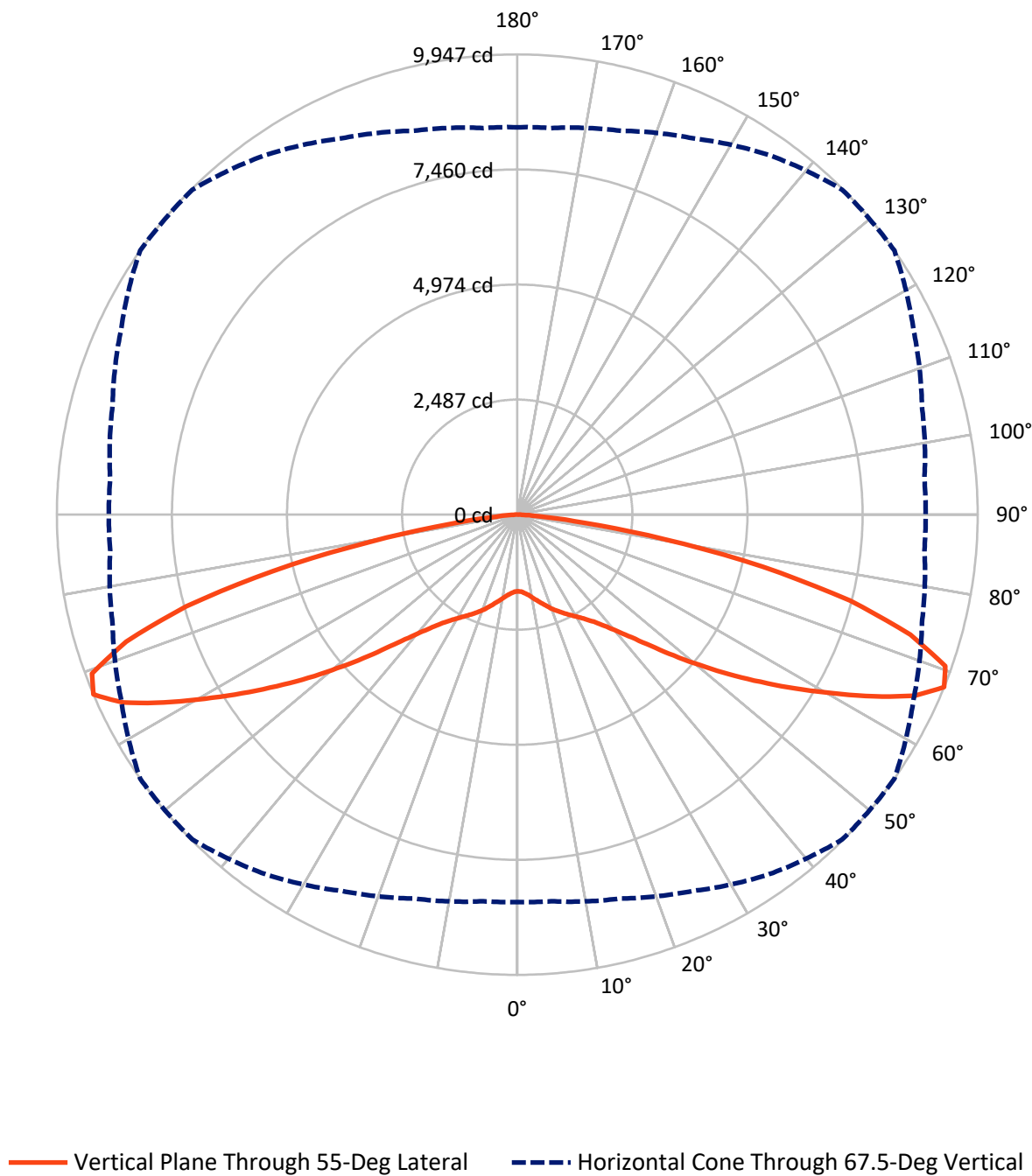


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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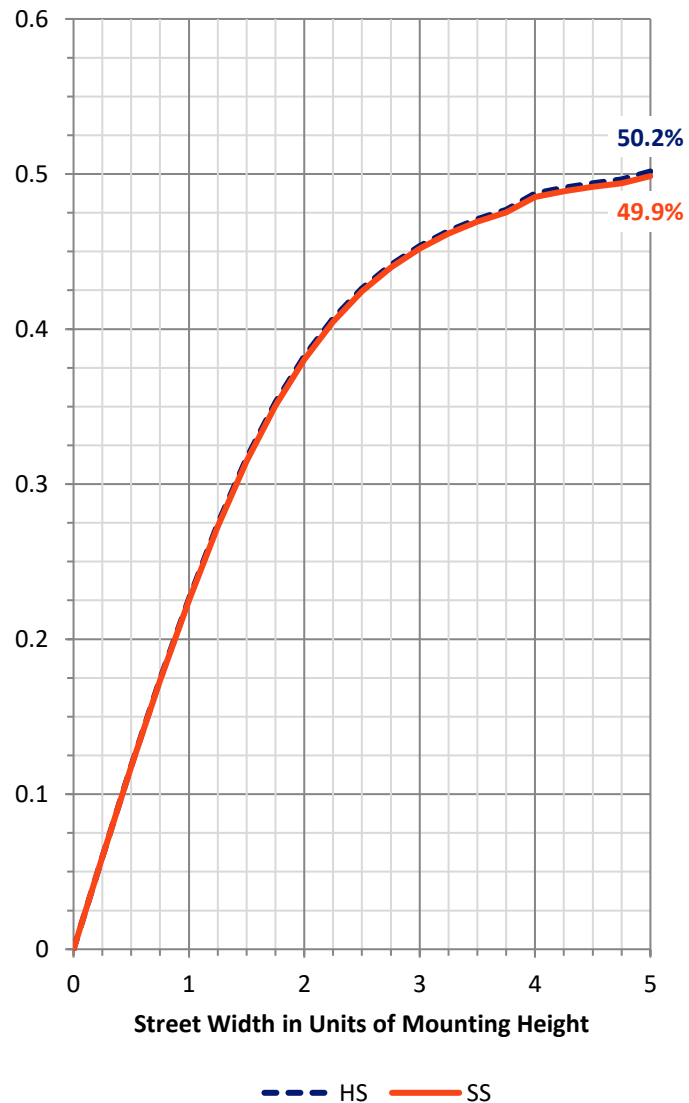
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14284.4	0.0	14284.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14284.4	0.0	14284.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	28568.7	0.0	28568.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	0.6
10°-20°	568.4	2.0
20°-30°	1093.0	3.8
30°-40°	1790.5	6.3
40°-50°	3112.6	10.9
50°-60°	5555.8	19.4
60°-70°	8577.8	30.0
70°-80°	6943.7	24.3
80°-90°	760.6	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°	28568.7	100.0
0°-180°	28568.7	100.0

Coefficient of Utilization



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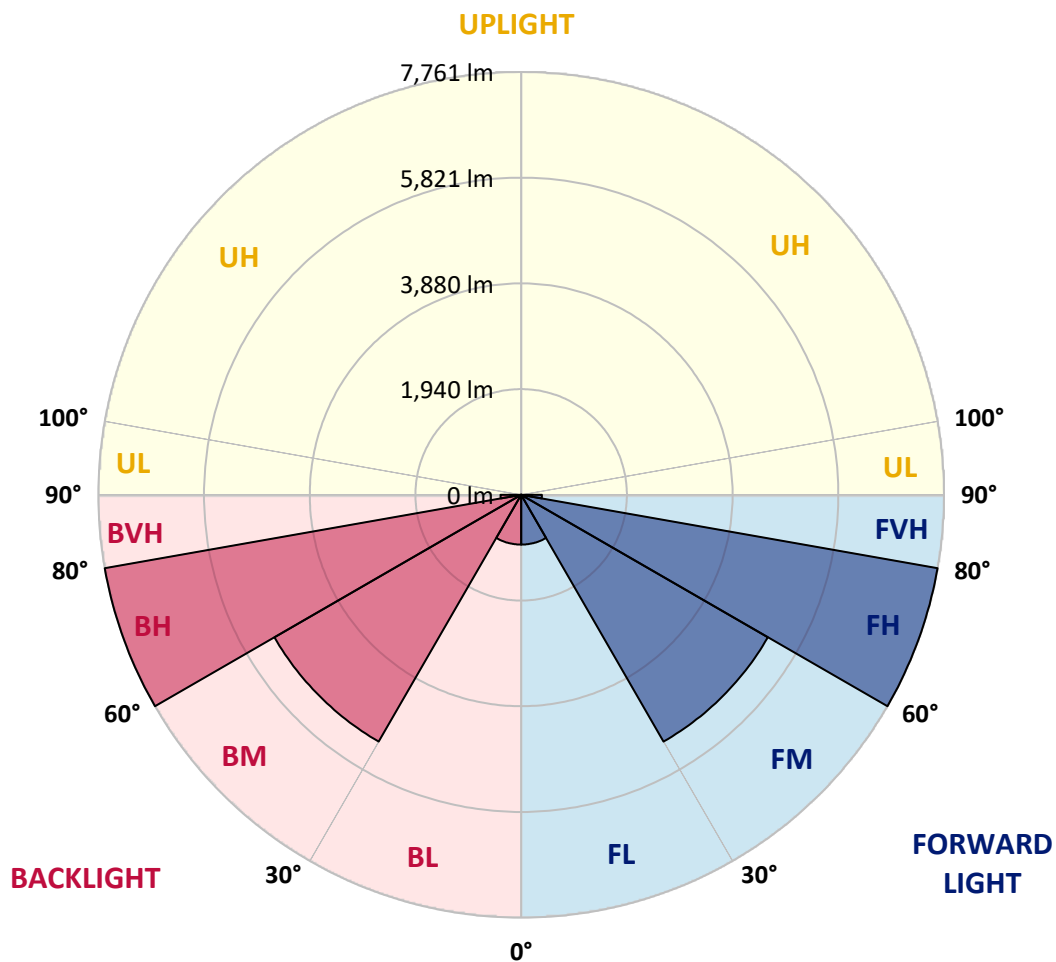
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.9	3.2			
FM	(30°-60°)	5229.4	18.3			
FH	(60°-80°)	7760.8	27.2			G4/12000
FVH	(80°-90°)	380.3	1.3			G3/500
BL	(0°-30°)	913.9	3.2	B2/1000		
BM	(30°-60°)	5229.4	18.3	B4/8500		
BH	(60°-80°)	7760.8	27.2	B5		G4/12000
BVH	(80°-90°)	380.3	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°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1668.4	1670.2	1668.4	1668.4	1666.6	1666.6	1666.6	1668.4	1668.4	1672.1	1670.2
5°	1702.8	1704.6	1701.0	1704.6	1704.6	1706.4	1704.6	1702.8	1704.6	1706.4	1701.0
7.5°	1751.7	1755.3	1753.5	1755.3	1757.1	1755.3	1755.3	1753.5	1757.1	1755.3	1751.7
10°	1815.0	1818.6	1816.8	1820.4	1822.3	1824.1	1824.1	1820.4	1818.6	1818.6	1816.8
12.5°	1891.0	1891.0	1891.0	1896.4	1900.1	1903.7	1901.9	1898.3	1892.8	1894.6	1887.4
15°	1974.3	1977.9	1977.9	1979.7	1988.7	1990.5	1988.7	1983.3	1981.5	1977.9	1974.3
17.5°	2066.5	2068.4	2070.2	2072.0	2082.8	2088.3	2081.0	2072.0	2072.0	2070.2	2070.2
20°	2162.5	2160.6	2164.3	2167.9	2175.1	2180.5	2178.7	2169.7	2162.5	2167.9	2166.1
22.5°	2251.1	2252.9	2254.7	2260.2	2272.8	2274.6	2269.2	2262.0	2252.9	2254.7	2254.7
25°	2334.4	2336.2	2339.8	2347.0	2361.5	2370.6	2363.3	2352.5	2339.8	2339.8	2341.6
27.5°	2419.4	2421.2	2423.0	2435.7	2453.8	2464.7	2459.2	2441.1	2426.7	2423.0	2417.6
30°	2513.5	2513.5	2517.1	2533.4	2556.9	2569.6	2562.4	2540.7	2518.9	2515.3	2515.3
32.5°	2632.9	2625.7	2631.1	2652.9	2678.2	2692.7	2687.2	2661.9	2634.8	2629.3	2629.3
35°	2775.9	2772.3	2775.9	2801.2	2832.0	2853.7	2841.0	2817.5	2788.6	2783.1	2779.5
37.5°	2946.0	2947.8	2958.7	2987.6	3029.2	3056.4	3043.7	3005.7	2971.3	2971.3	2971.3
40°	3161.3	3165.0	3186.7	3230.1	3289.8	3313.3	3298.9	3251.8	3212.0	3197.5	3201.2
42.5°	3454.5	3452.7	3487.1	3541.4	3611.9	3646.3	3622.8	3572.1	3514.2	3490.7	3492.5
45°	3800.1	3825.5	3861.7	3930.4	4019.1	4078.8	4037.2	3981.1	3894.2	3859.8	3858.0
47.5°	4218.1	4245.3	4290.5	4404.5	4511.3	4583.7	4551.1	4458.8	4334.0	4285.1	4267.0
50°	4694.1	4728.4	4786.4	4932.9	5084.9	5166.4	5108.5	4987.2	4853.3	4779.1	4761.0
52.5°	5229.7	5240.6	5327.4	5504.8	5693.0	5792.5	5727.3	5582.6	5410.7	5341.9	5291.2
55°	5823.2	5832.3	5931.8	6132.7	6346.2	6463.8	6380.6	6197.8	6038.6	5919.2	5930.0
57.5°	6373.4	6400.5	6547.1	6782.3	7033.9	7176.8	7086.3	6892.7	6726.2	6590.5	6606.8
60°	6961.5	6990.4	7144.2	7424.7	7764.9	7954.9	7837.3	7629.2	7457.3	7328.8	7312.5
62.5°	7585.8	7602.1	7770.4	8021.9	8456.2	8762.0	8649.8	8420.0	8219.1	8092.5	8079.8
65°	8163.0	8184.7	8327.7	8602.8	9049.7	9496.7	9433.4	9114.9	8843.4	8660.7	8635.3
67.5°	8372.9	8387.4	8588.3	8973.7	9487.7	9929.2	9947.3	9446.0	9051.5	8829.0	8823.5
70°	8126.8	8137.7	8394.7	8852.5	9507.6	9874.9	9809.8	9306.7	8821.7	8548.5	8521.3
72.5°	7574.9	7576.7	7812.0	8201.0	8857.9	9158.3	8881.4	8604.6	8103.3	7898.8	7844.5
75°	6570.6	6572.4	6735.3	6994.0	7462.7	7739.6	7424.7	7171.4	6876.4	6755.2	6691.8
77.5°	4518.5	4545.7	4714.0	5012.5	5526.5	5832.3	5419.7	4960.1	4780.9	4677.8	4616.2
80°	2175.1	2216.7	2410.4	2705.3	3242.8	3731.4	3222.9	2656.5	2307.2	2023.1	2073.8
82.5°	580.9	588.1	754.6	1083.9	1511.0	1773.4	1440.4	1007.9	635.2	427.1	390.9
85°	153.8	162.9	228.0	313.1	475.9	606.2	463.3	295.0	224.4	166.5	152.0
87.5°	41.6	48.9	79.6	95.9	119.4	95.9	119.4	103.1	99.5	52.5	38.0
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)