

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: P157613

Luminaire Tested: **VST-F09-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157613
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-F09-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19799.5 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 234.8
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



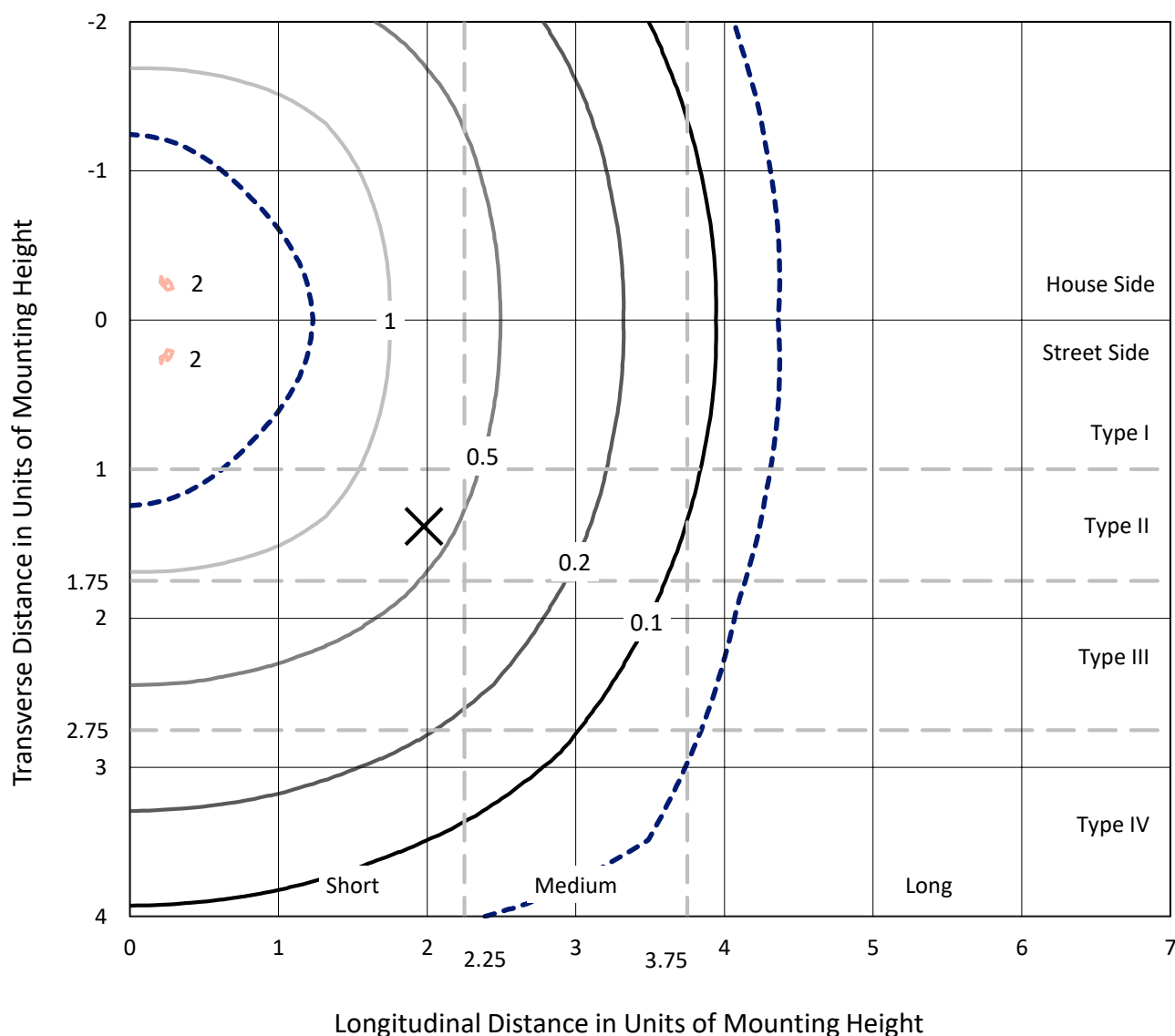
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

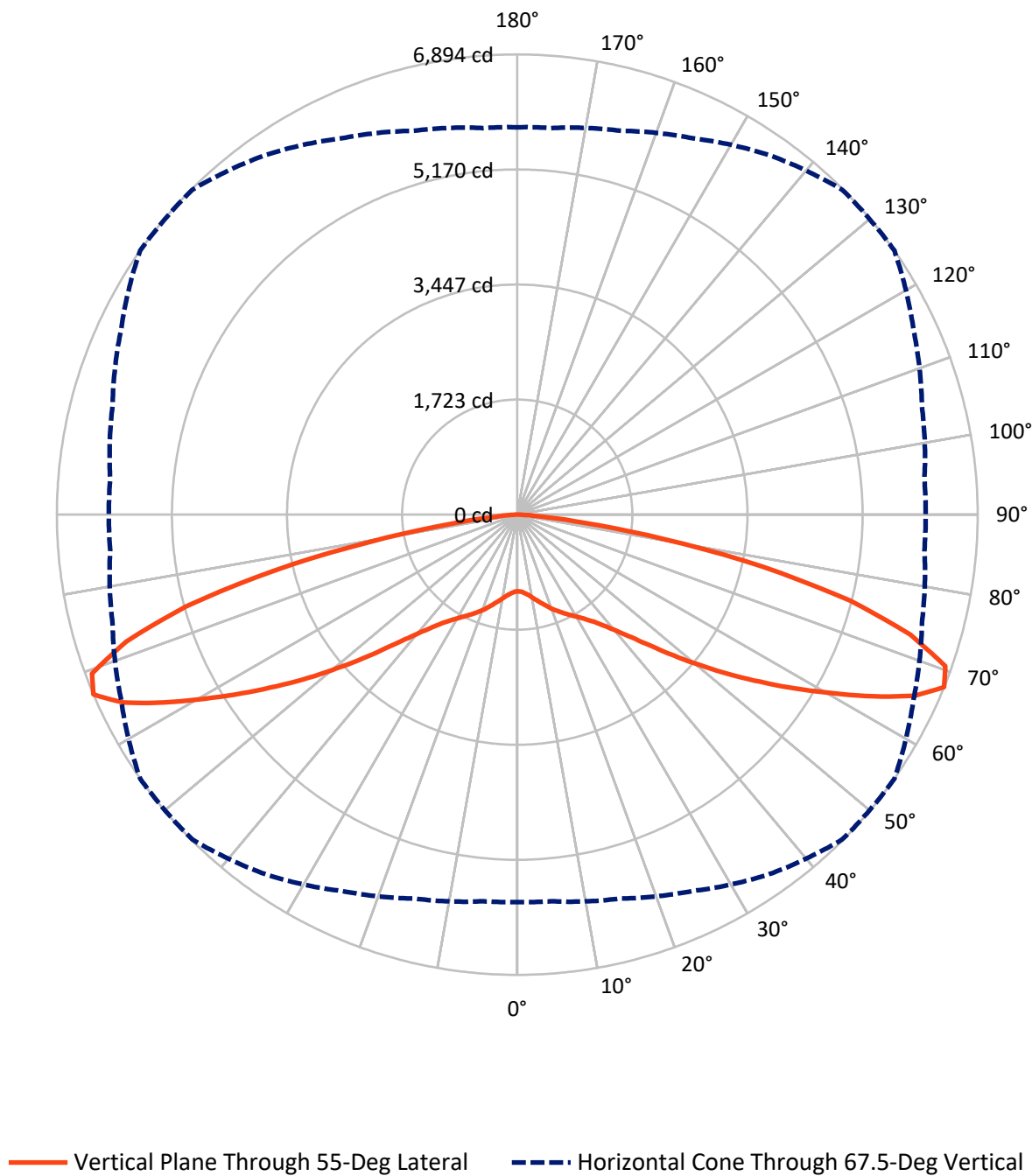


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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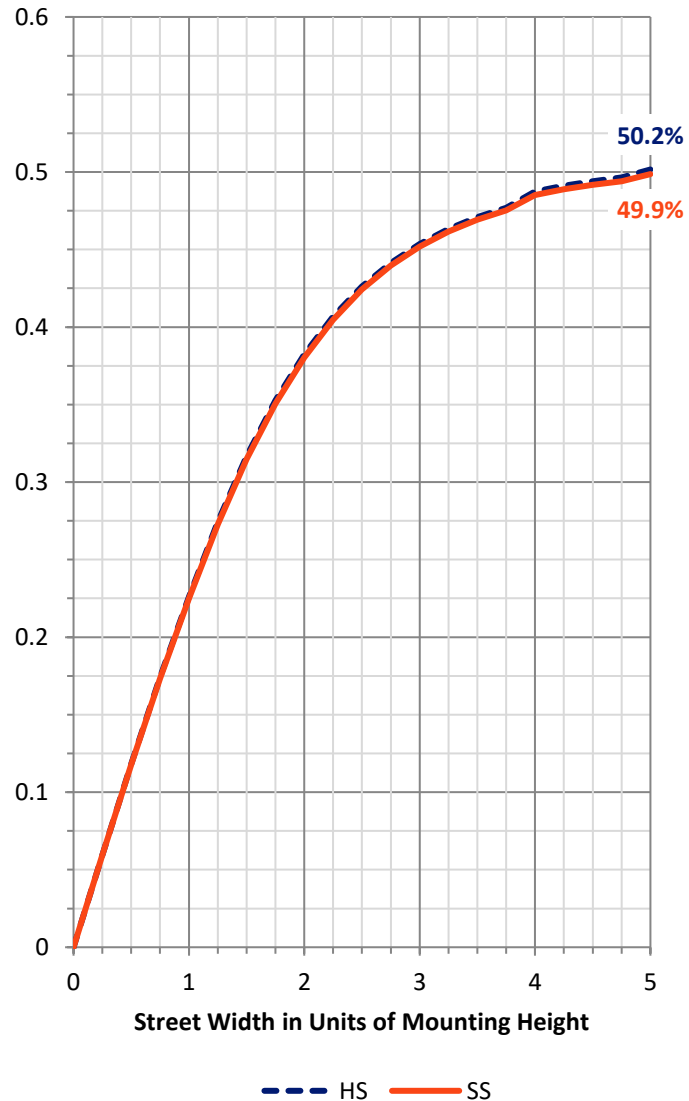
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9899.7	0.0	9899.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9899.7	0.0	9899.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19799.5	0.0	19799.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	0.6
10°-20°	393.9	2.0
20°-30°	757.5	3.8
30°-40°	1240.9	6.3
40°-50°	2157.2	10.9
50°-60°	3850.4	19.4
60°-70°	5944.8	30.0
70°-80°	4812.3	24.3
80°-90°	527.2	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°	19799.5	100.0
0°-180°	19799.5	100.0

Coefficient of Utilization



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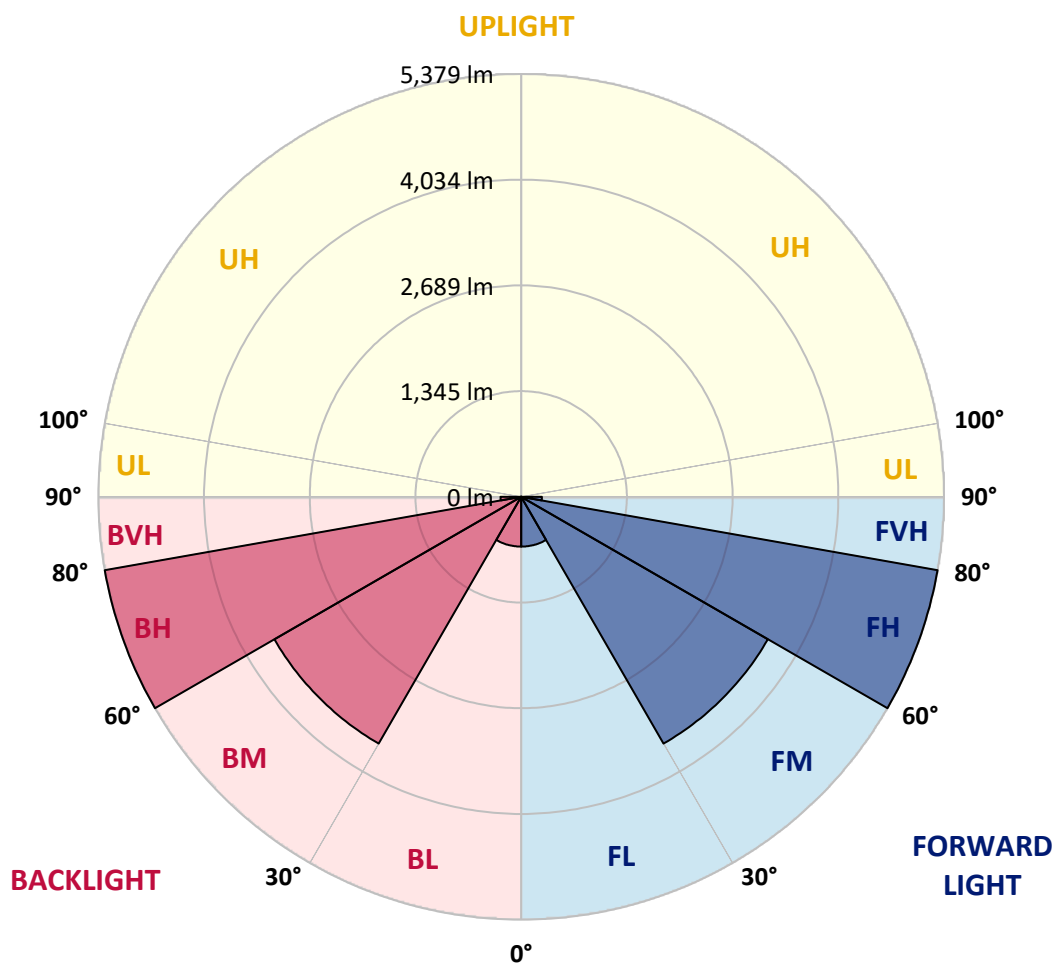
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	633.4	3.2			
FM	(30°-60°)	3624.2	18.3			
FH	(60°-80°)	5378.6	27.2			G3/7500
FVH	(80°-90°)	263.6	1.3			G3/500
BL	(0°-30°)	633.4	3.2	B2/1000		
BM	(30°-60°)	3624.2	18.3	B3/5000		
BH	(60°-80°)	5378.6	27.2	B5		G3/7500
BVH	(80°-90°)	263.6	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°	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1156.3	1157.6	1156.3	1156.3	1155.0	1155.0	1155.0	1156.3	1156.3	1158.8	1157.6
5°	1180.1	1181.4	1178.9	1181.4	1181.4	1182.6	1181.4	1180.1	1181.4	1182.6	1178.9
7.5°	1214.0	1216.5	1215.2	1216.5	1217.8	1216.5	1216.5	1215.2	1217.8	1216.5	1214.0
10°	1257.9	1260.4	1259.1	1261.6	1262.9	1264.2	1264.2	1261.6	1260.4	1260.4	1259.1
12.5°	1310.6	1310.6	1310.6	1314.3	1316.8	1319.3	1318.1	1315.6	1311.8	1313.1	1308.1
15°	1368.2	1370.8	1370.8	1372.0	1378.3	1379.5	1378.3	1374.5	1373.3	1370.8	1368.2
17.5°	1432.2	1433.5	1434.7	1436.0	1443.5	1447.3	1442.2	1436.0	1436.0	1434.7	1434.7
20°	1498.7	1497.4	1499.9	1502.4	1507.5	1511.2	1510.0	1503.7	1498.7	1502.4	1501.2
22.5°	1560.1	1561.4	1562.6	1566.4	1575.2	1576.4	1572.7	1567.7	1561.4	1562.6	1562.6
25°	1617.8	1619.1	1621.6	1626.6	1636.6	1642.9	1637.9	1630.4	1621.6	1621.6	1622.8
27.5°	1676.8	1678.0	1679.3	1688.1	1700.6	1708.1	1704.4	1691.8	1681.8	1679.3	1675.5
30°	1742.0	1742.0	1744.5	1755.8	1772.1	1780.9	1775.8	1760.8	1745.7	1743.2	1743.2
32.5°	1824.8	1819.7	1823.5	1838.5	1856.1	1866.1	1862.4	1844.8	1826.0	1822.2	1822.2
35°	1923.8	1921.3	1923.8	1941.4	1962.7	1977.8	1969.0	1952.7	1932.6	1928.8	1926.3
37.5°	2041.7	2043.0	2050.5	2070.6	2099.4	2118.2	2109.4	2083.1	2059.3	2059.3	2059.3
40°	2191.0	2193.5	2208.5	2238.6	2280.0	2296.3	2286.3	2253.7	2226.1	2216.0	2218.5
42.5°	2394.1	2392.9	2416.7	2454.3	2503.2	2527.1	2510.8	2475.6	2435.5	2419.2	2420.5
45°	2633.7	2651.2	2676.3	2724.0	2785.4	2826.8	2798.0	2759.1	2698.9	2675.0	2673.8
47.5°	2923.4	2942.2	2973.5	3052.5	3126.5	3176.7	3154.1	3090.2	3003.6	2969.8	2957.2
50°	3253.2	3277.0	3317.2	3418.7	3524.1	3580.5	3540.4	3456.4	3363.6	3312.1	3299.6
52.5°	3624.4	3631.9	3692.1	3815.0	3945.5	4014.5	3969.3	3869.0	3749.8	3702.2	3667.1
55°	4035.8	4042.0	4111.0	4250.2	4398.2	4479.7	4422.0	4295.4	4185.0	4102.2	4109.8
57.5°	4417.0	4435.8	4537.4	4700.5	4874.8	4973.9	4911.1	4777.0	4661.6	4567.5	4578.8
60°	4824.6	4844.7	4951.3	5145.7	5381.4	5513.1	5431.6	5287.4	5168.2	5079.2	5067.9
62.5°	5257.3	5268.6	5385.2	5559.5	5860.5	6072.5	5994.7	5835.4	5696.2	5608.4	5599.7
65°	5657.4	5672.4	5771.5	5962.1	6271.9	6581.6	6537.7	6317.0	6128.9	6002.2	5984.7
67.5°	5802.8	5812.9	5952.1	6219.2	6575.4	6881.4	6893.9	6546.5	6273.1	6118.9	6115.1
70°	5632.3	5639.8	5817.9	6135.2	6589.2	6843.8	6798.6	6450.0	6113.9	5924.5	5905.7
72.5°	5249.8	5251.0	5414.1	5683.7	6138.9	6347.1	6155.2	5963.4	5616.0	5474.3	5436.6
75°	4553.7	4555.0	4667.8	4847.2	5172.0	5363.9	5145.7	4970.1	4765.7	4681.6	4637.8
77.5°	3131.5	3150.4	3267.0	3473.9	3830.1	4042.0	3756.1	3437.6	3313.4	3241.9	3199.3
80°	1507.5	1536.3	1670.5	1874.9	2247.4	2586.0	2233.6	1841.1	1599.0	1402.1	1437.2
82.5°	402.6	407.6	523.0	751.2	1047.2	1229.0	998.3	698.5	440.2	296.0	270.9
85°	106.6	112.9	158.0	217.0	329.8	420.1	321.1	204.4	155.5	115.4	105.3
87.5°	28.8	33.9	55.2	66.5	82.8	66.5	82.8	71.5	69.0	36.4	26.3
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)