

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: P157606

Luminaire Tested: **VST-F08-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157606
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (56) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21397.1 lumens
Efficiency: N/A
Efficacy: 104.7 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



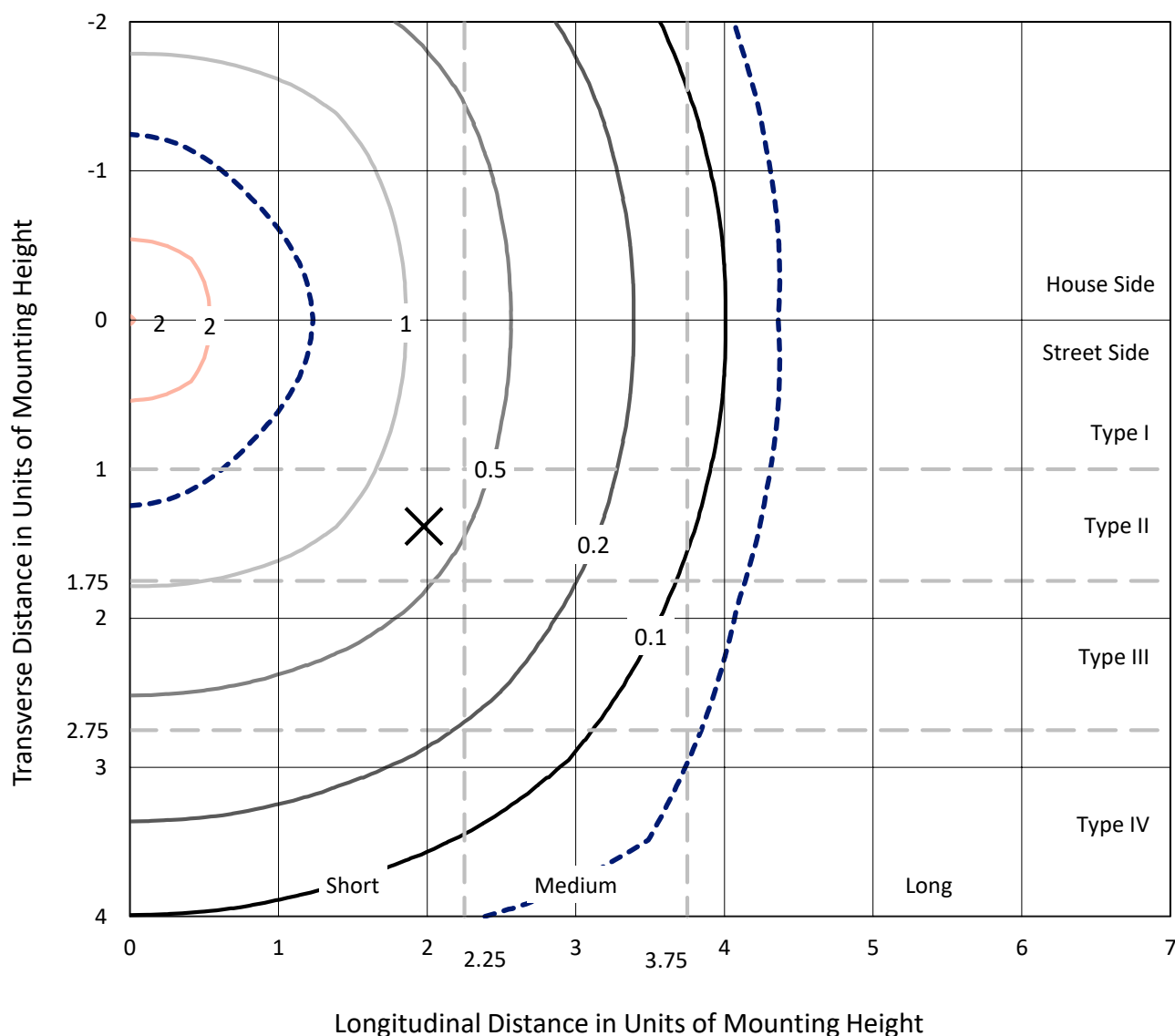
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

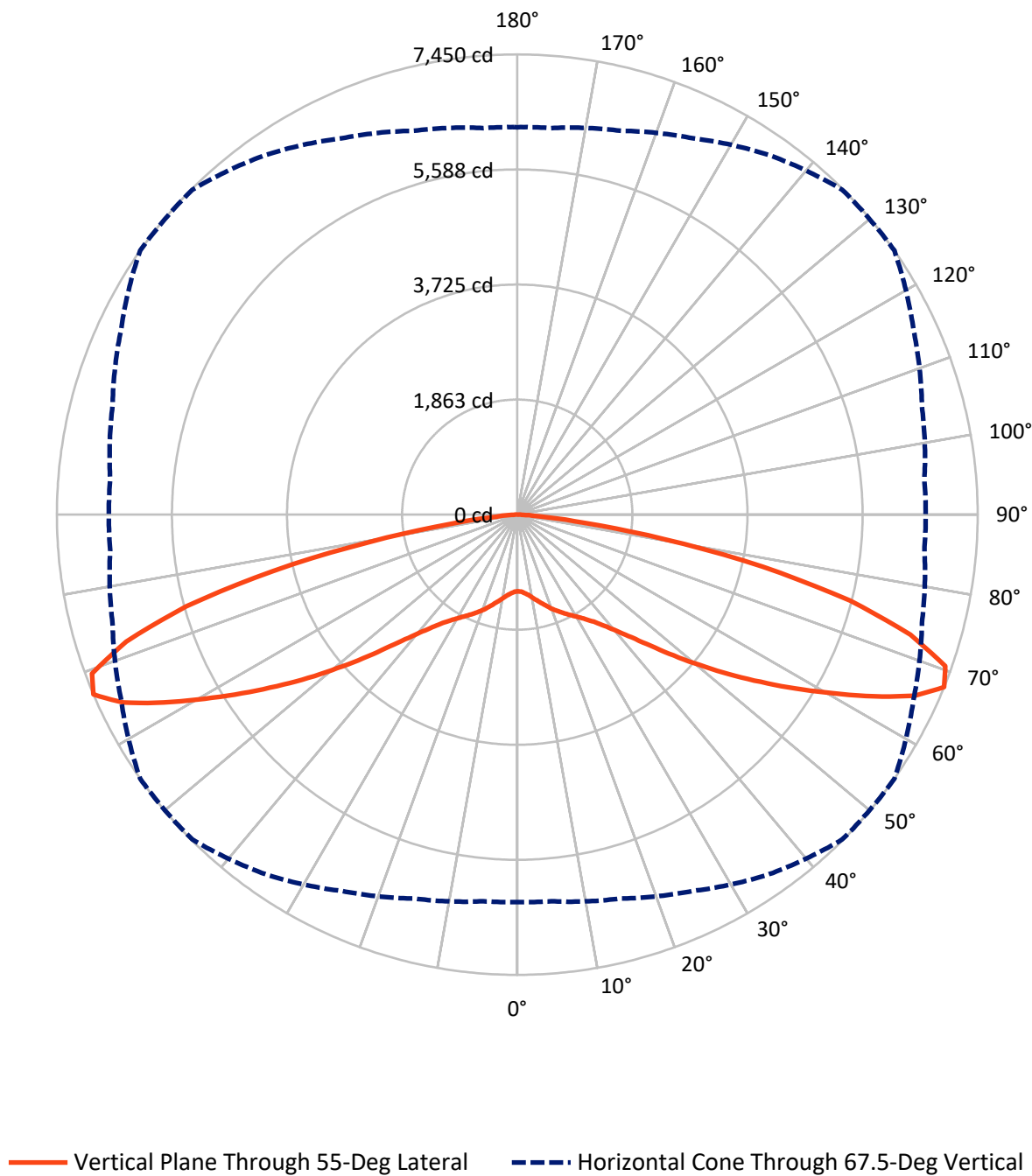


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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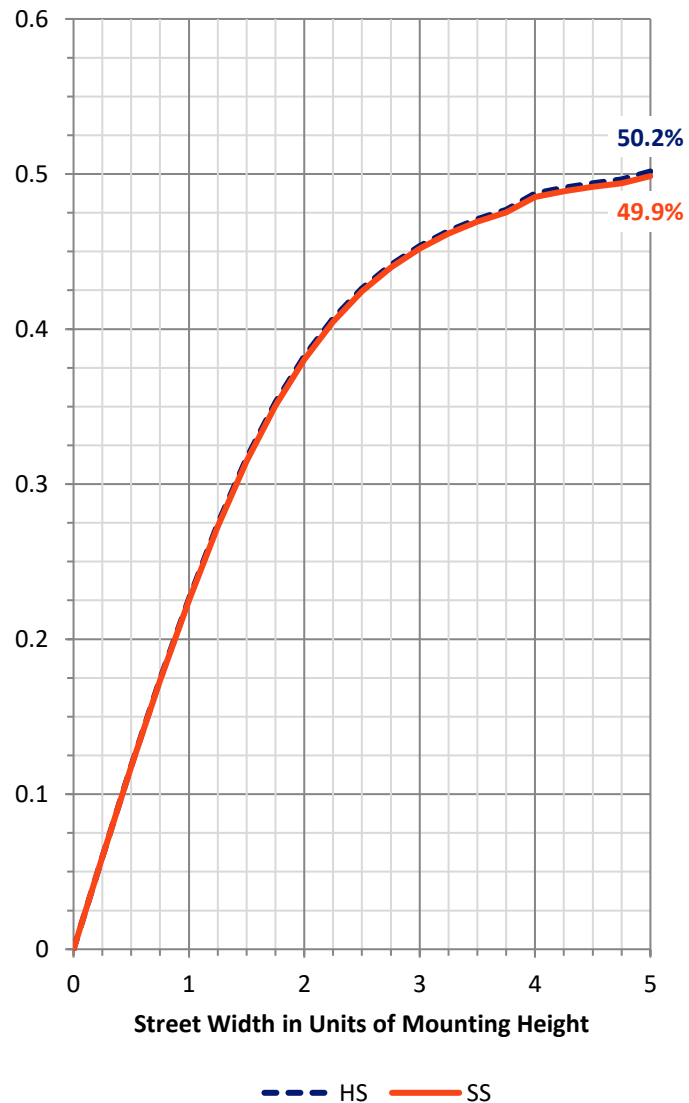
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10698.5	0.0	10698.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10698.5	0.0	10698.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21397.1	0.0	21397.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	0.6
10°-20°	425.7	2.0
20°-30°	818.6	3.8
30°-40°	1341.0	6.3
40°-50°	2331.2	10.9
50°-60°	4161.1	19.4
60°-70°	6424.5	30.0
70°-80°	5200.6	24.3
80°-90°	569.7	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°	21397.1	100.0
0°-180°	21397.1	100.0

Coefficient of Utilization



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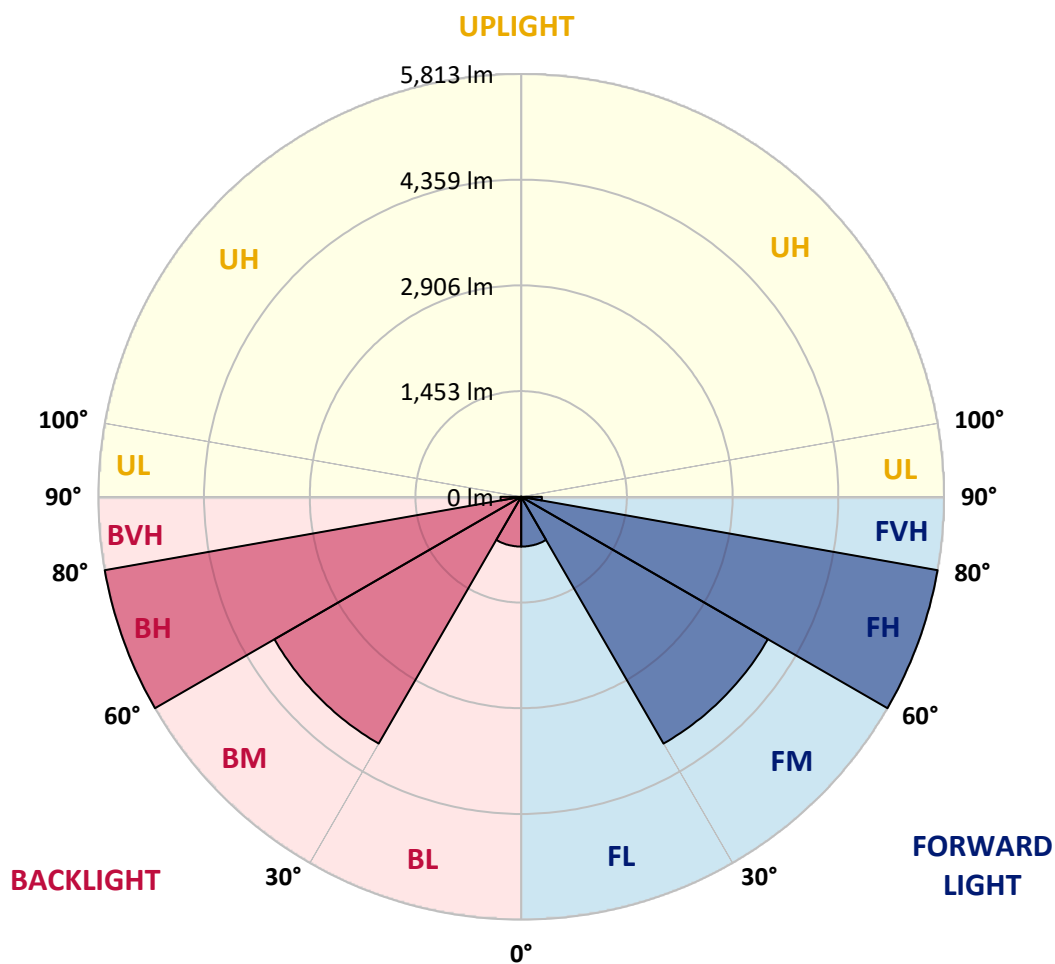
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	684.5	3.2			
FM	(30°-60°)	3916.7	18.3			
FH	(60°-80°)	5812.6	27.2			G3/7500
FVH	(80°-90°)	284.8	1.3			G3/500
BL	(0°-30°)	684.5	3.2	B2/1000		
BM	(30°-60°)	3916.7	18.3	B3/5000		
BH	(60°-80°)	5812.6	27.2	B5		G3/7500
BVH	(80°-90°)	284.8	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°	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5
2.5°	1249.6	1251.0	1249.6	1249.6	1248.3	1248.3	1248.3	1249.6	1249.6	1252.3	1251.0
5°	1275.4	1276.7	1274.0	1276.7	1276.7	1278.1	1276.7	1275.4	1276.7	1278.1	1274.0
7.5°	1312.0	1314.7	1313.3	1314.7	1316.0	1314.7	1314.7	1313.3	1316.0	1314.7	1312.0
10°	1359.4	1362.1	1360.7	1363.5	1364.8	1366.2	1366.2	1363.5	1362.1	1362.1	1360.7
12.5°	1416.3	1416.3	1416.3	1420.4	1423.1	1425.8	1424.4	1421.7	1417.7	1419.0	1413.6
15°	1478.7	1481.4	1481.4	1482.7	1489.5	1490.9	1489.5	1485.4	1484.1	1481.4	1478.7
17.5°	1547.8	1549.1	1550.5	1551.8	1560.0	1564.0	1558.6	1551.8	1551.8	1550.5	1550.5
20°	1619.6	1618.3	1621.0	1623.7	1629.1	1633.2	1631.8	1625.0	1619.6	1623.7	1622.3
22.5°	1686.0	1687.4	1688.7	1692.8	1702.3	1703.6	1699.6	1694.2	1687.4	1688.7	1688.7
25°	1748.4	1749.7	1752.4	1757.9	1768.7	1775.5	1770.0	1761.9	1752.4	1752.4	1753.8
27.5°	1812.1	1813.4	1814.8	1824.3	1837.8	1845.9	1841.9	1828.3	1817.5	1814.8	1810.7
30°	1882.5	1882.5	1885.3	1897.4	1915.1	1924.6	1919.1	1902.9	1886.6	1883.9	1883.9
32.5°	1972.0	1966.6	1970.6	1986.9	2005.9	2016.7	2012.7	1993.7	1973.3	1969.3	1969.3
35°	2079.1	2076.4	2079.1	2098.0	2121.1	2137.3	2127.9	2110.2	2088.5	2084.5	2081.8
37.5°	2206.5	2207.8	2215.9	2237.6	2268.8	2289.1	2279.6	2251.2	2225.4	2225.4	2225.4
40°	2367.7	2370.5	2386.7	2419.2	2464.0	2481.6	2470.8	2435.5	2405.7	2394.9	2397.6
42.5°	2587.3	2586.0	2611.7	2652.4	2705.2	2731.0	2713.4	2675.4	2632.0	2614.4	2615.8
45°	2846.2	2865.1	2892.3	2943.8	3010.2	3054.9	3023.7	2981.7	2916.7	2890.9	2889.5
47.5°	3159.3	3179.6	3213.5	3298.9	3378.8	3433.0	3408.6	3339.5	3246.0	3209.4	3195.8
50°	3515.7	3541.5	3584.8	3694.6	3808.5	3869.4	3826.1	3735.3	3635.0	3579.4	3565.8
52.5°	3916.9	3925.0	3990.1	4122.9	4263.8	4338.4	4289.6	4181.2	4052.4	4000.9	3963.0
55°	4361.4	4368.2	4442.7	4593.2	4753.1	4841.2	4778.9	4642.0	4522.7	4433.3	4441.4
57.5°	4773.4	4793.8	4903.6	5079.7	5268.1	5375.2	5307.4	5162.4	5037.7	4936.1	4948.3
60°	5213.9	5235.6	5350.8	5560.9	5815.7	5958.0	5869.9	5714.0	5585.3	5489.1	5476.9
62.5°	5681.5	5693.7	5819.7	6008.1	6333.4	6562.5	6478.4	6306.3	6155.9	6061.0	6051.5
65°	6113.9	6130.1	6237.2	6443.2	6778.0	7112.7	7065.3	6826.8	6623.5	6486.6	6467.6
67.5°	6271.1	6281.9	6432.4	6721.0	7105.9	7436.6	7450.2	7074.8	6779.3	6612.6	6608.5
70°	6086.7	6094.9	6287.3	6630.2	7120.9	7396.0	7347.2	6970.4	6607.2	6402.5	6382.2
72.5°	5673.4	5674.7	5850.9	6142.3	6634.3	6859.3	6651.9	6444.6	6069.1	5916.0	5875.3
75°	4921.2	4922.5	5044.5	5238.3	5589.3	5796.7	5560.9	5371.1	5150.2	5059.4	5012.0
77.5°	3384.2	3404.6	3530.6	3754.2	4139.2	4368.2	4059.2	3714.9	3580.8	3503.5	3457.4
80°	1629.1	1660.3	1805.3	2026.2	2428.7	2794.7	2413.8	1989.6	1728.0	1515.2	1553.2
82.5°	435.1	440.5	565.2	811.8	1131.7	1328.2	1078.8	754.9	475.7	319.9	292.7
85°	115.2	122.0	170.8	234.5	356.4	454.0	347.0	220.9	168.1	124.7	113.8
87.5°	31.2	36.6	59.6	71.8	89.5	71.8	89.5	77.3	74.5	39.3	28.5
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)