

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: P157598

Luminaire Tested: **VST-E08-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157598
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-E08-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21319.2 lumens
Efficiency: N/A
Efficacy: 109.6 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): 194.5
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

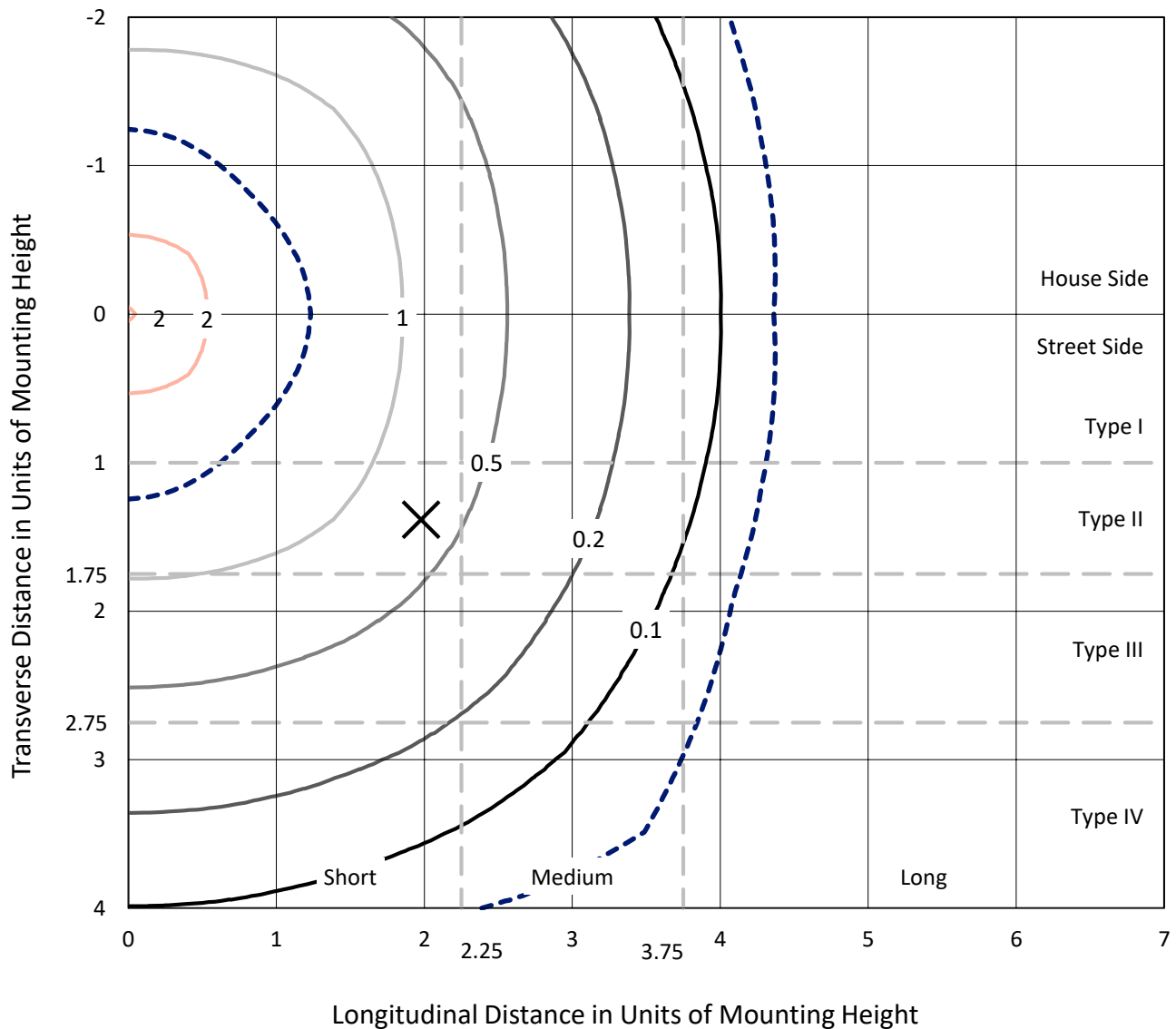


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

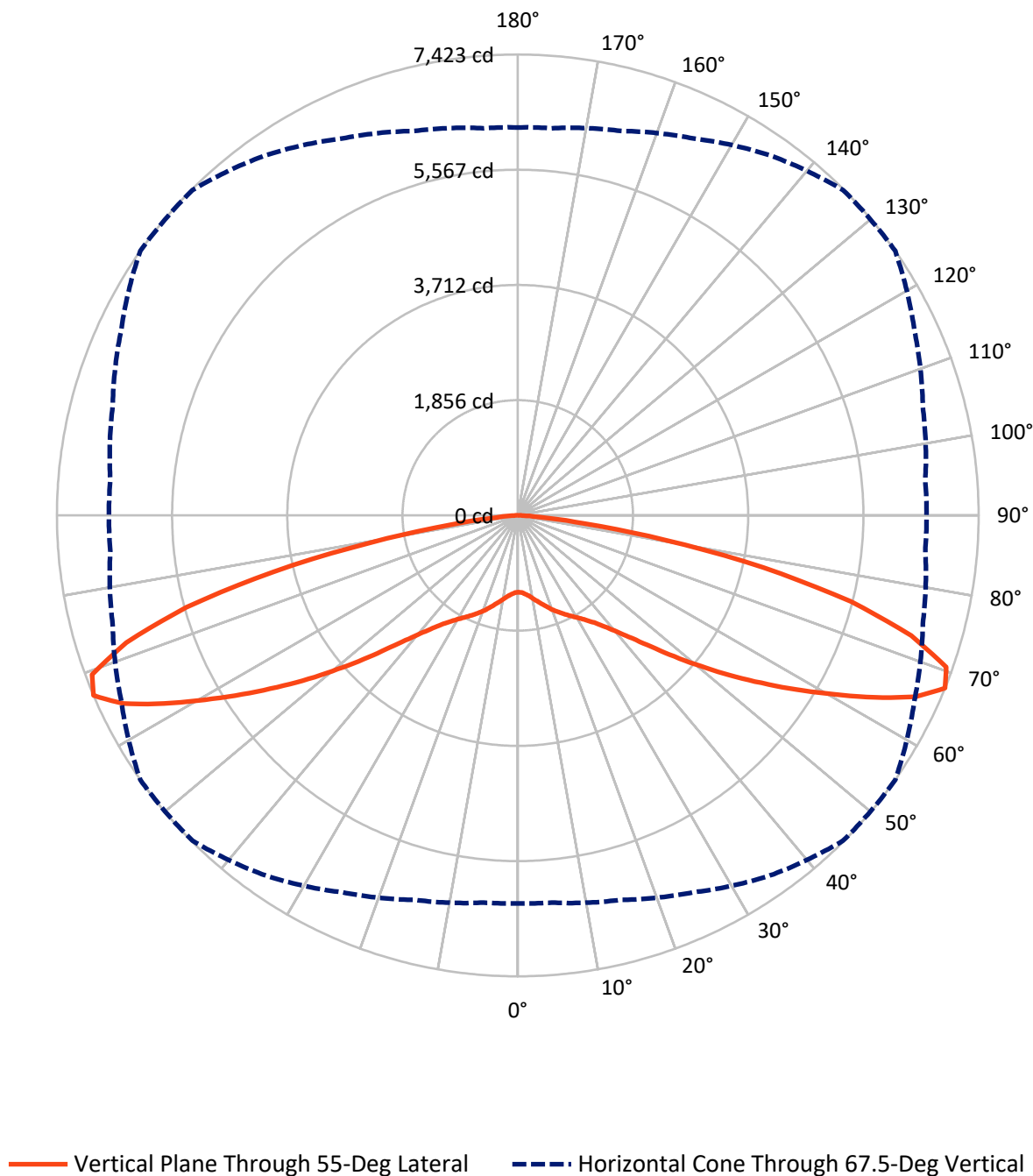


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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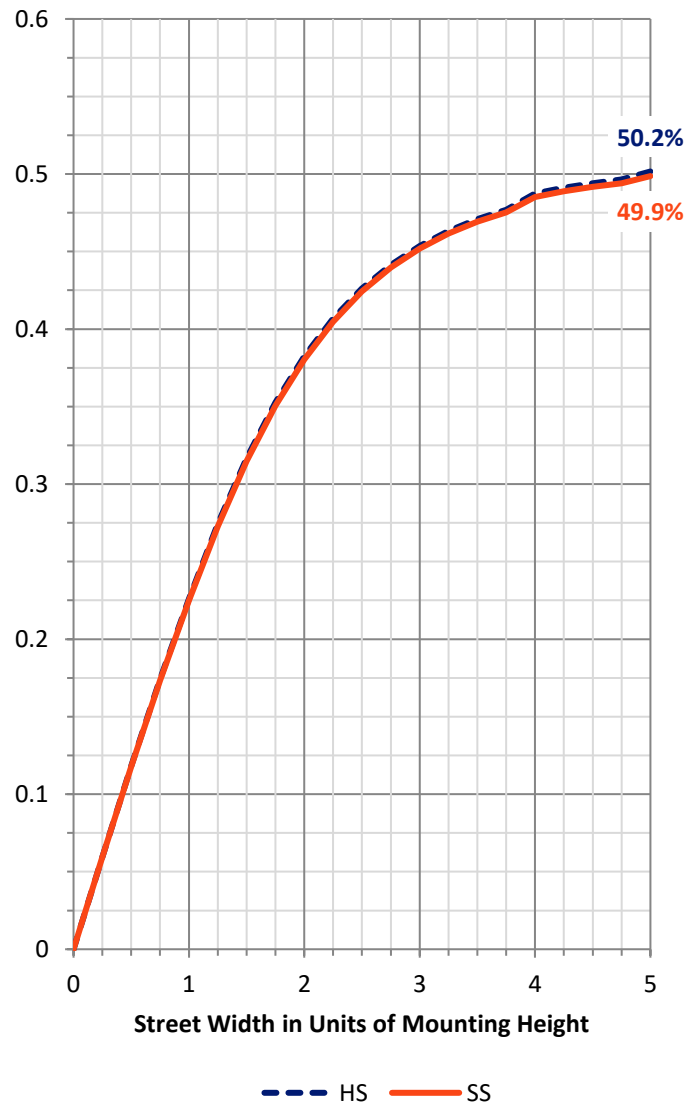
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10659.6	0.0	10659.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10659.6	0.0	10659.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	21319.2	0.0	21319.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	0.6
10°-20°	424.2	2.0
20°-30°	815.6	3.8
30°-40°	1336.1	6.3
40°-50°	2322.7	10.9
50°-60°	4145.9	19.4
60°-70°	6401.1	30.0
70°-80°	5181.7	24.3
80°-90°	567.6	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°	21319.2	100.0
0°-180°	21319.2	100.0

Coefficient of Utilization



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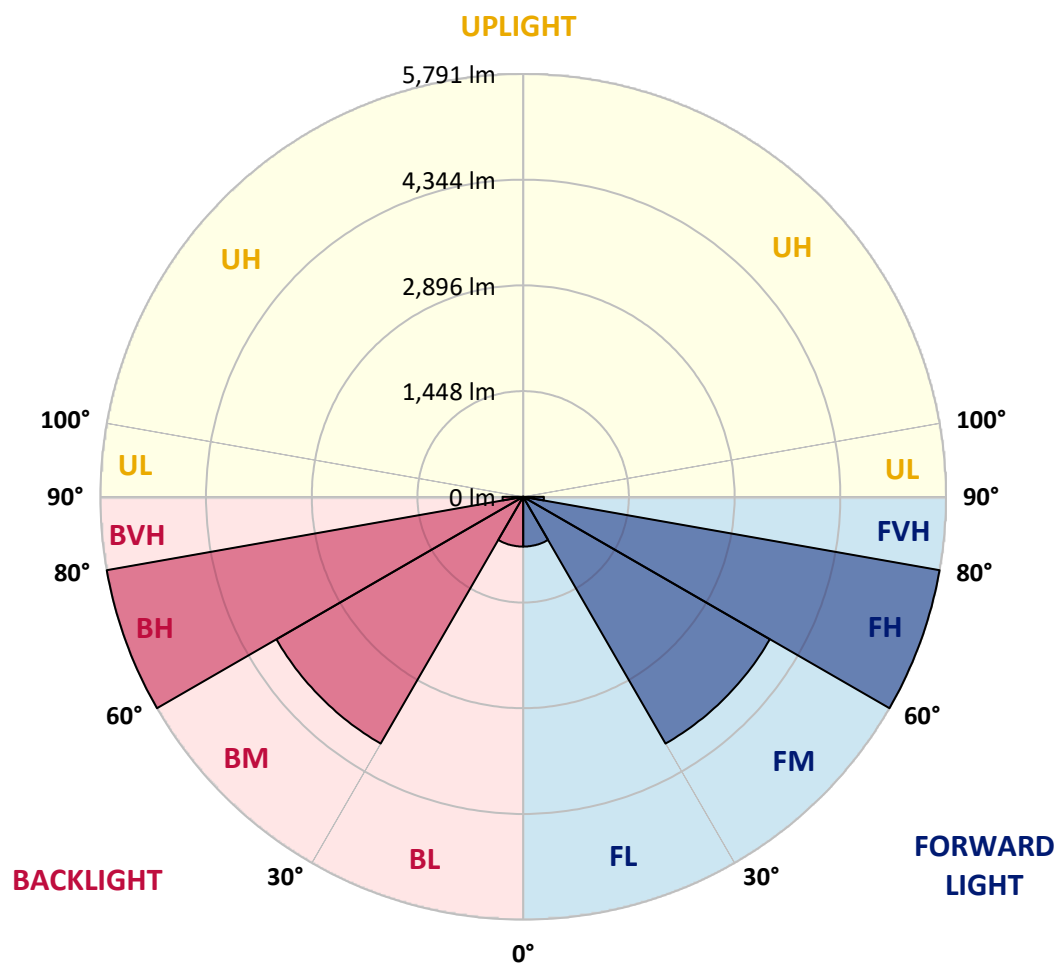
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.0	3.2			
FM	(30°-60°)	3902.4	18.3			
FH	(60°-80°)	5791.4	27.2			G3/7500
FVH	(80°-90°)	283.8	1.3			G3/500
BL	(0°-30°)	682.0	3.2	B2/1000		
BM	(30°-60°)	3902.4	18.3	B3/5000		
BH	(60°-80°)	5791.4	27.2	B5		G3/7500
BVH	(80°-90°)	283.8	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°	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1245.1	1246.4	1245.1	1245.1	1243.7	1243.7	1243.7	1245.1	1245.1	1247.8	1246.4
5°	1270.7	1272.1	1269.4	1272.1	1272.1	1273.4	1272.1	1270.7	1272.1	1273.4	1269.4
7.5°	1307.2	1309.9	1308.5	1309.9	1311.2	1309.9	1309.9	1308.5	1311.2	1309.9	1307.2
10°	1354.4	1357.1	1355.8	1358.5	1359.8	1361.2	1361.2	1358.5	1357.1	1357.1	1355.8
12.5°	1411.2	1411.2	1411.2	1415.2	1417.9	1420.6	1419.3	1416.6	1412.5	1413.9	1408.5
15°	1473.3	1476.0	1476.0	1477.3	1484.1	1485.4	1484.1	1480.0	1478.7	1476.0	1473.3
17.5°	1542.1	1543.5	1544.8	1546.2	1554.3	1558.3	1552.9	1546.2	1546.2	1544.8	1544.8
20°	1613.7	1612.4	1615.1	1617.8	1623.2	1627.2	1625.9	1619.1	1613.7	1617.8	1616.4
22.5°	1679.9	1681.2	1682.6	1686.6	1696.1	1697.4	1693.4	1688.0	1681.2	1682.6	1682.6
25°	1742.0	1743.3	1746.0	1751.4	1762.3	1769.0	1763.6	1755.5	1746.0	1746.0	1747.4
27.5°	1805.5	1806.8	1808.2	1817.6	1831.1	1839.2	1835.2	1821.7	1810.9	1808.2	1804.1
30°	1875.7	1875.7	1878.4	1890.5	1908.1	1917.5	1912.1	1895.9	1879.7	1877.0	1877.0
32.5°	1964.8	1959.4	1963.5	1979.7	1998.6	2009.4	2005.3	1986.4	1966.2	1962.1	1962.1
35°	2071.5	2068.8	2071.5	2090.4	2113.4	2129.6	2120.1	2102.6	2080.9	2076.9	2074.2
37.5°	2198.4	2199.8	2207.9	2229.5	2260.5	2280.8	2271.3	2243.0	2217.3	2217.3	2217.3
40°	2359.1	2361.8	2378.0	2410.4	2455.0	2472.6	2461.8	2426.6	2396.9	2386.1	2388.8
42.5°	2577.9	2576.5	2602.2	2642.7	2695.4	2721.0	2703.5	2665.7	2622.4	2604.9	2606.2
45°	2835.8	2854.7	2881.7	2933.0	2999.2	3043.8	3012.7	2970.8	2906.0	2880.4	2879.0
47.5°	3147.7	3168.0	3201.8	3286.8	3366.5	3420.5	3396.2	3327.3	3234.2	3197.7	3184.2
50°	3502.9	3528.6	3571.8	3681.2	3794.6	3855.4	3812.1	3721.7	3621.7	3566.4	3552.9
52.5°	3902.6	3910.7	3975.5	4107.9	4248.3	4322.6	4274.0	4165.9	4037.7	3986.3	3948.5
55°	4345.5	4352.3	4426.6	4576.5	4735.8	4823.6	4761.5	4625.1	4506.2	4417.1	4425.2
57.5°	4756.1	4776.3	4885.7	5061.2	5248.9	5355.6	5288.1	5143.6	5019.4	4918.1	4930.3
60°	5194.9	5216.5	5331.3	5540.6	5794.5	5936.3	5848.5	5693.2	5564.9	5469.1	5456.9
62.5°	5660.8	5673.0	5798.6	5986.3	6310.4	6538.6	6454.8	6283.3	6133.5	6038.9	6029.5
65°	6091.6	6107.8	6214.5	6419.7	6753.3	7086.8	7039.6	6801.9	6599.3	6462.9	6444.0
67.5°	6248.2	6259.0	6408.9	6696.6	7080.1	7409.6	7423.1	7049.0	6754.6	6588.5	6584.5
70°	6064.6	6072.7	6264.4	6606.1	7094.9	7369.1	7320.4	6945.0	6583.1	6379.2	6359.0
72.5°	5652.7	5654.1	5829.6	6119.9	6610.1	6834.3	6627.7	6421.1	6047.0	5894.4	5853.9
75°	4903.2	4904.6	5026.1	5219.2	5569.0	5775.6	5540.6	5351.6	5131.5	5041.0	4993.7
77.5°	3371.9	3392.2	3517.8	3740.6	4124.1	4352.3	4044.4	3701.4	3567.7	3490.7	3444.8
80°	1623.2	1654.2	1798.7	2018.8	2419.9	2784.5	2405.0	1982.4	1721.7	1509.7	1547.5
82.5°	433.5	438.9	563.1	808.9	1127.6	1323.4	1074.9	752.2	474.0	318.7	291.7
85°	114.8	121.5	170.1	233.6	355.2	452.4	345.7	220.1	167.4	124.2	113.4
87.5°	31.1	36.5	59.4	71.6	89.1	71.6	89.1	77.0	74.3	39.2	28.4
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)