

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: P157588

Luminaire Tested: **VST-E07-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157588
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-E07-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18654.3 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 172.5
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



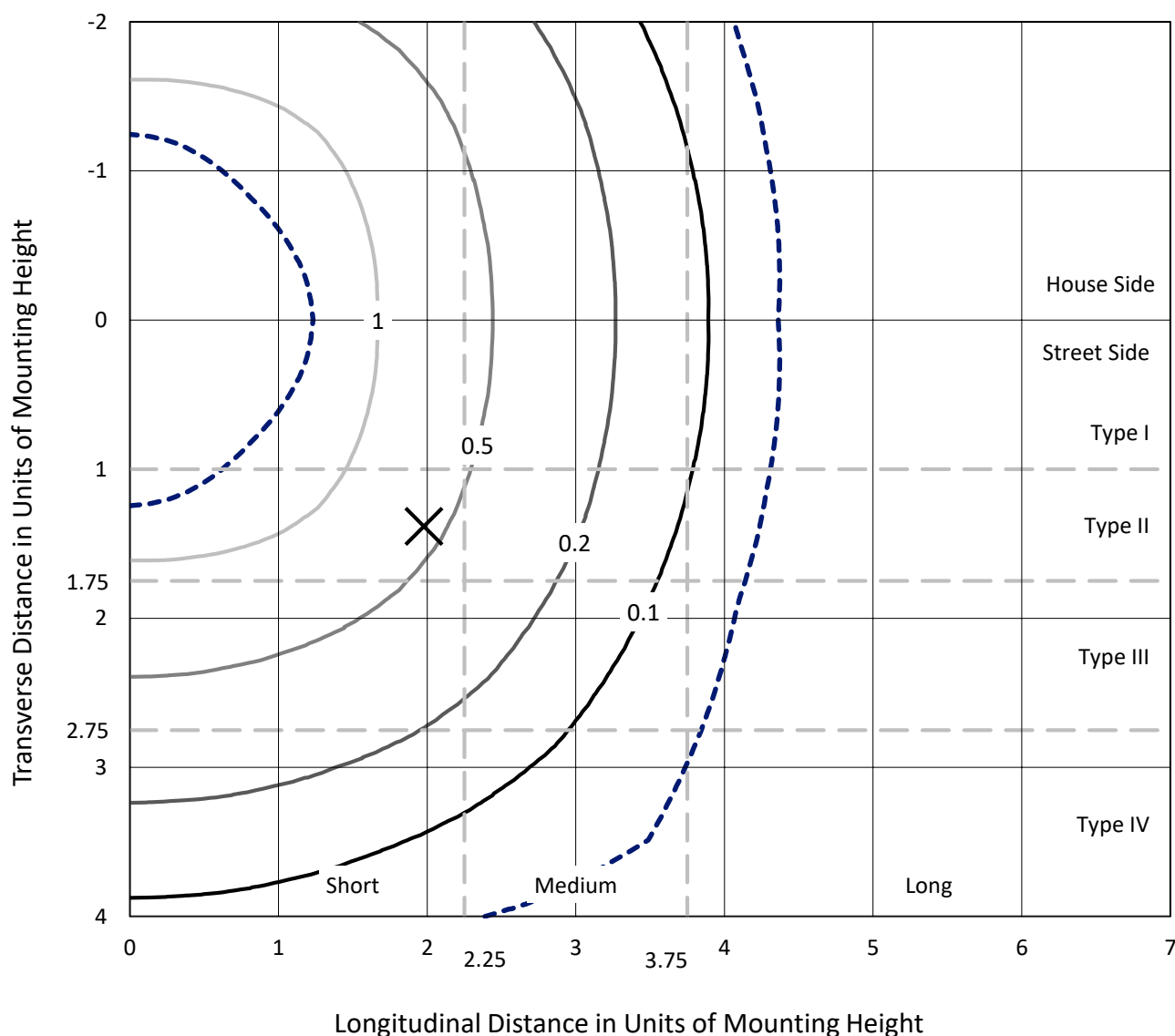
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

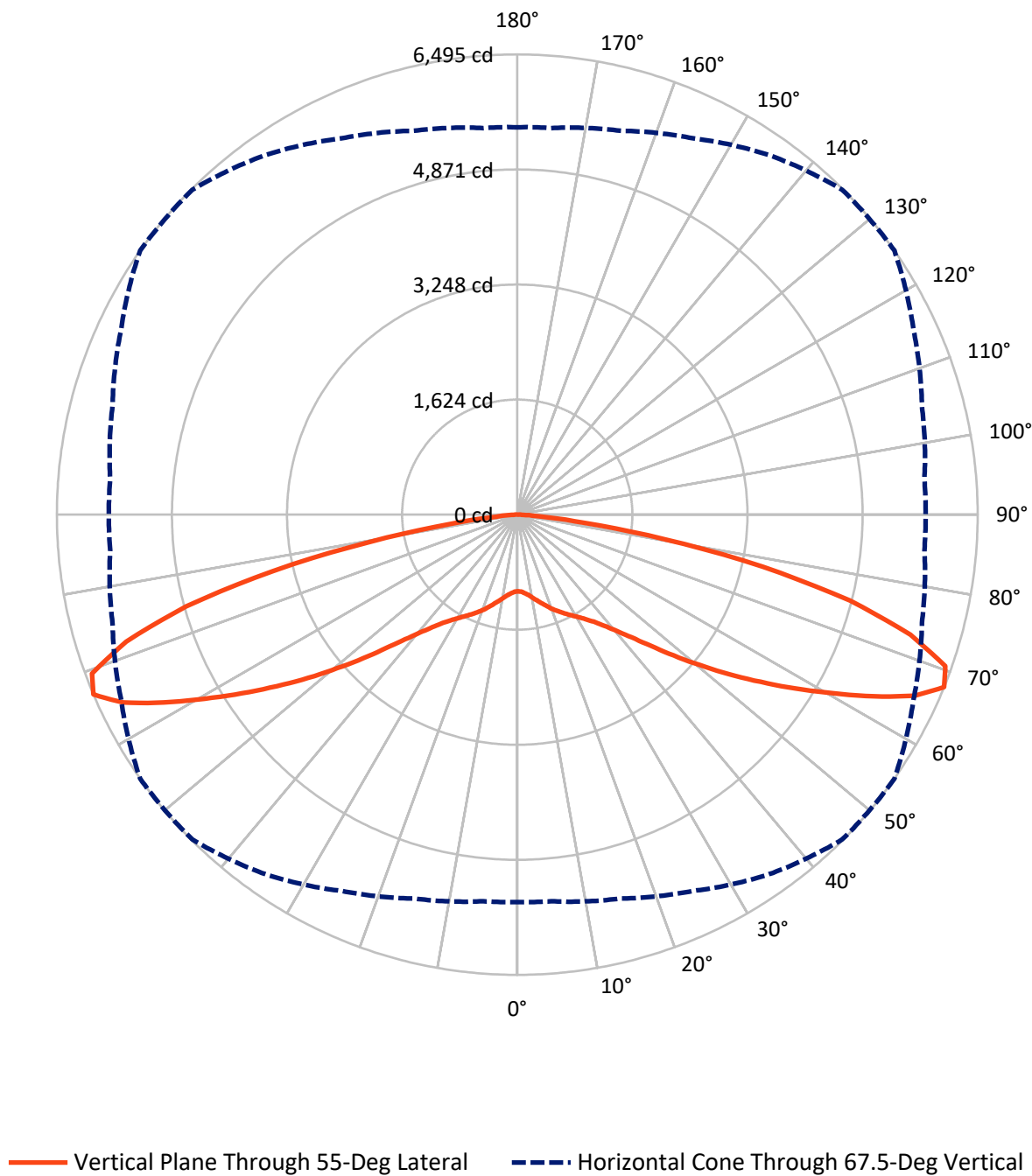


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
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Luminous Intensity Polar Plot



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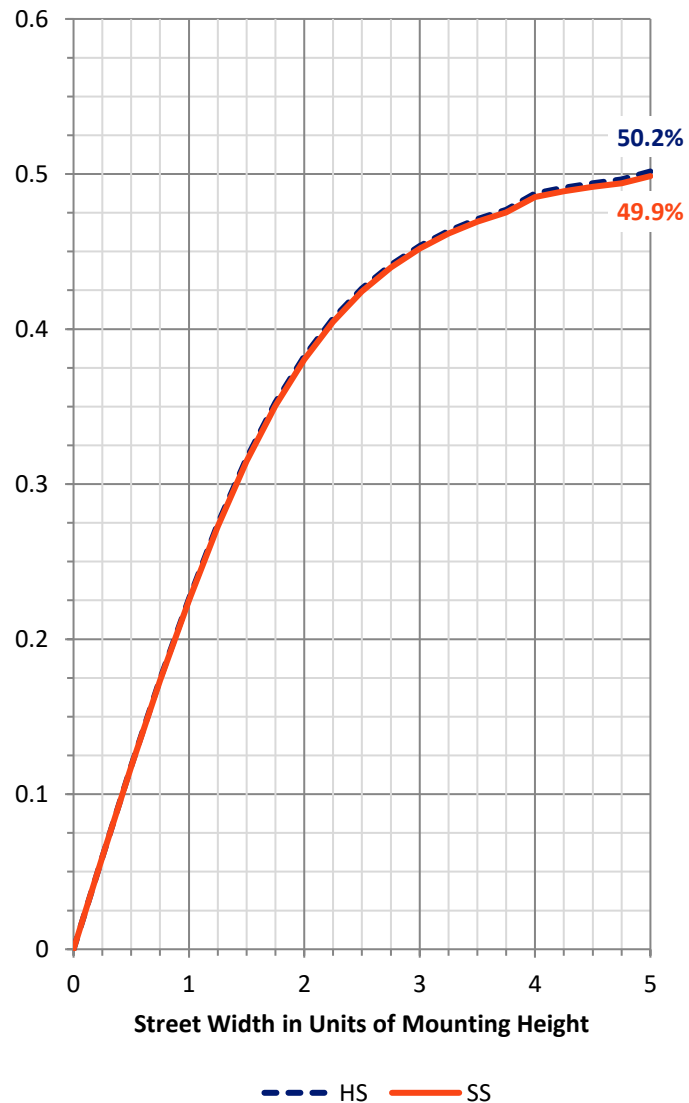
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9327.1	0.0	9327.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9327.1	0.0	9327.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18654.3	0.0	18654.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	0.6
10°-20°	371.2	2.0
20°-30°	713.7	3.8
30°-40°	1169.1	6.3
40°-50°	2032.4	10.9
50°-60°	3627.7	19.4
60°-70°	5601.0	30.0
70°-80°	4534.0	24.3
80°-90°	496.7	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°	18654.3	100.0
0°-180°	18654.3	100.0

Coefficient of Utilization



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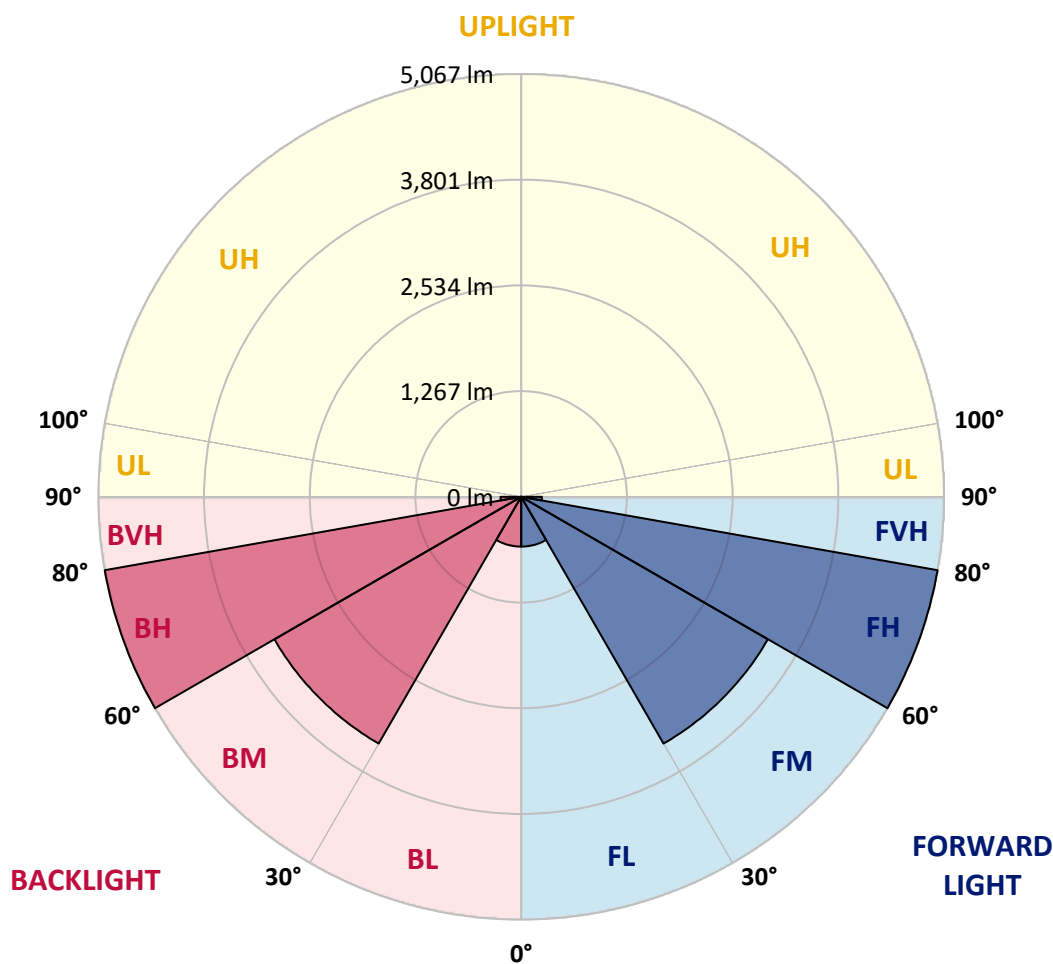
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	596.7	3.2			
FM	(30°-60°)	3414.6	18.3			
FH	(60°-80°)	5067.5	27.2			G3/7500
FVH	(80°-90°)	248.3	1.3			G3/500
BL	(0°-30°)	596.7	3.2	B2/1000		
BM	(30°-60°)	3414.6	18.3	B3/5000		
BH	(60°-80°)	5067.5	27.2	B5		G3/7500
BVH	(80°-90°)	248.3	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1082.3	1082.3	1082.3	1082.3	1082.3	1082.3	1082.3	1082.3	1082.3	1082.3	1082.3
2.5°	1089.4	1090.6	1089.4	1089.4	1088.2	1088.2	1088.2	1089.4	1089.4	1091.8	1090.6
5°	1111.9	1113.1	1110.7	1113.1	1113.1	1114.2	1113.1	1111.9	1113.1	1114.2	1110.7
7.5°	1143.8	1146.1	1145.0	1146.1	1147.3	1146.1	1146.1	1145.0	1147.3	1146.1	1143.8
10°	1185.1	1187.5	1186.3	1188.7	1189.9	1191.0	1191.0	1188.7	1187.5	1187.5	1186.3
12.5°	1234.8	1234.8	1234.8	1238.3	1240.7	1243.0	1241.8	1239.5	1235.9	1237.1	1232.4
15°	1289.1	1291.5	1291.5	1292.7	1298.6	1299.7	1298.6	1295.0	1293.8	1291.5	1289.1
17.5°	1349.4	1350.6	1351.7	1352.9	1360.0	1363.6	1358.8	1352.9	1352.9	1351.7	1351.7
20°	1412.0	1410.8	1413.2	1415.5	1420.3	1423.8	1422.6	1416.7	1412.0	1415.5	1414.4
22.5°	1469.9	1471.1	1472.3	1475.8	1484.1	1485.3	1481.7	1477.0	1471.1	1472.3	1472.3
25°	1524.2	1525.4	1527.8	1532.5	1542.0	1547.9	1543.2	1536.1	1527.8	1527.8	1529.0
27.5°	1579.8	1581.0	1582.1	1590.4	1602.2	1609.3	1605.8	1594.0	1584.5	1582.1	1578.6
30°	1641.2	1641.2	1643.6	1654.2	1669.6	1677.9	1673.1	1658.9	1644.8	1642.4	1642.4
32.5°	1719.2	1714.5	1718.0	1732.2	1748.7	1758.2	1754.7	1738.1	1720.4	1716.8	1716.8
35°	1812.6	1810.2	1812.6	1829.1	1849.2	1863.4	1855.1	1839.7	1820.8	1817.3	1814.9
37.5°	1923.6	1924.8	1931.9	1950.8	1978.0	1995.7	1987.4	1962.6	1940.2	1940.2	1940.2
40°	2064.2	2066.6	2080.8	2109.1	2148.1	2163.5	2154.0	2123.3	2097.3	2087.9	2090.2
42.5°	2255.7	2254.5	2276.9	2312.4	2358.4	2380.9	2365.5	2332.5	2294.6	2279.3	2280.5
45°	2481.3	2497.9	2521.5	2566.4	2624.3	2663.3	2636.1	2599.5	2542.8	2520.3	2519.1
47.5°	2754.3	2772.0	2801.5	2876.0	2945.7	2993.0	2971.7	2911.4	2829.9	2798.0	2786.2
50°	3065.0	3087.5	3125.3	3221.0	3320.3	3373.4	3335.6	3256.5	3169.0	3120.6	3108.8
52.5°	3414.8	3421.9	3478.6	3594.4	3717.3	3782.3	3739.7	3645.2	3532.9	3488.0	3455.0
55°	3802.3	3808.3	3873.2	4004.4	4143.8	4220.6	4166.3	4046.9	3943.0	3865.0	3872.1
57.5°	4161.6	4179.3	4275.0	4428.6	4592.8	4686.2	4627.1	4500.7	4392.0	4303.3	4314.0
60°	4545.6	4564.5	4664.9	4848.1	5070.2	5194.3	5117.5	4981.6	4869.3	4785.4	4774.8
62.5°	4953.2	4963.8	5073.7	5238.0	5521.6	5721.2	5648.0	5497.9	5366.8	5284.1	5275.8
65°	5330.1	5344.3	5437.7	5617.3	5909.1	6201.0	6159.6	5951.7	5774.4	5655.1	5638.5
67.5°	5467.2	5476.7	5607.8	5859.5	6195.1	6483.4	6495.2	6167.9	5910.3	5765.0	5761.4
70°	5306.5	5313.6	5481.4	5780.3	6208.1	6447.9	6405.4	6076.9	5760.2	5581.8	5564.1
72.5°	4946.1	4947.3	5100.9	5355.0	5783.9	5980.0	5799.2	5618.4	5291.1	5157.6	5122.2
75°	4290.3	4291.5	4397.9	4566.8	4872.9	5053.6	4848.1	4682.6	4490.0	4410.9	4369.5
77.5°	2950.4	2968.1	3078.0	3273.0	3608.6	3808.3	3538.9	3238.7	3121.8	3054.4	3014.2
80°	1420.3	1447.4	1573.9	1766.5	2117.4	2436.4	2104.4	1734.6	1506.5	1321.0	1354.1
82.5°	379.3	384.0	492.7	707.8	986.6	1158.0	940.5	658.1	414.7	278.9	255.2
85°	100.4	106.3	148.9	204.4	310.8	395.8	302.5	192.6	146.5	108.7	99.3
87.5°	27.2	31.9	52.0	62.6	78.0	62.6	78.0	67.4	65.0	34.3	24.8
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)