

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: P157596

Luminaire Tested: **VST-F07-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157596
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-F07-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18722.5 lumens
Efficiency: N/A
Efficacy: 103.7 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): 180.5
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

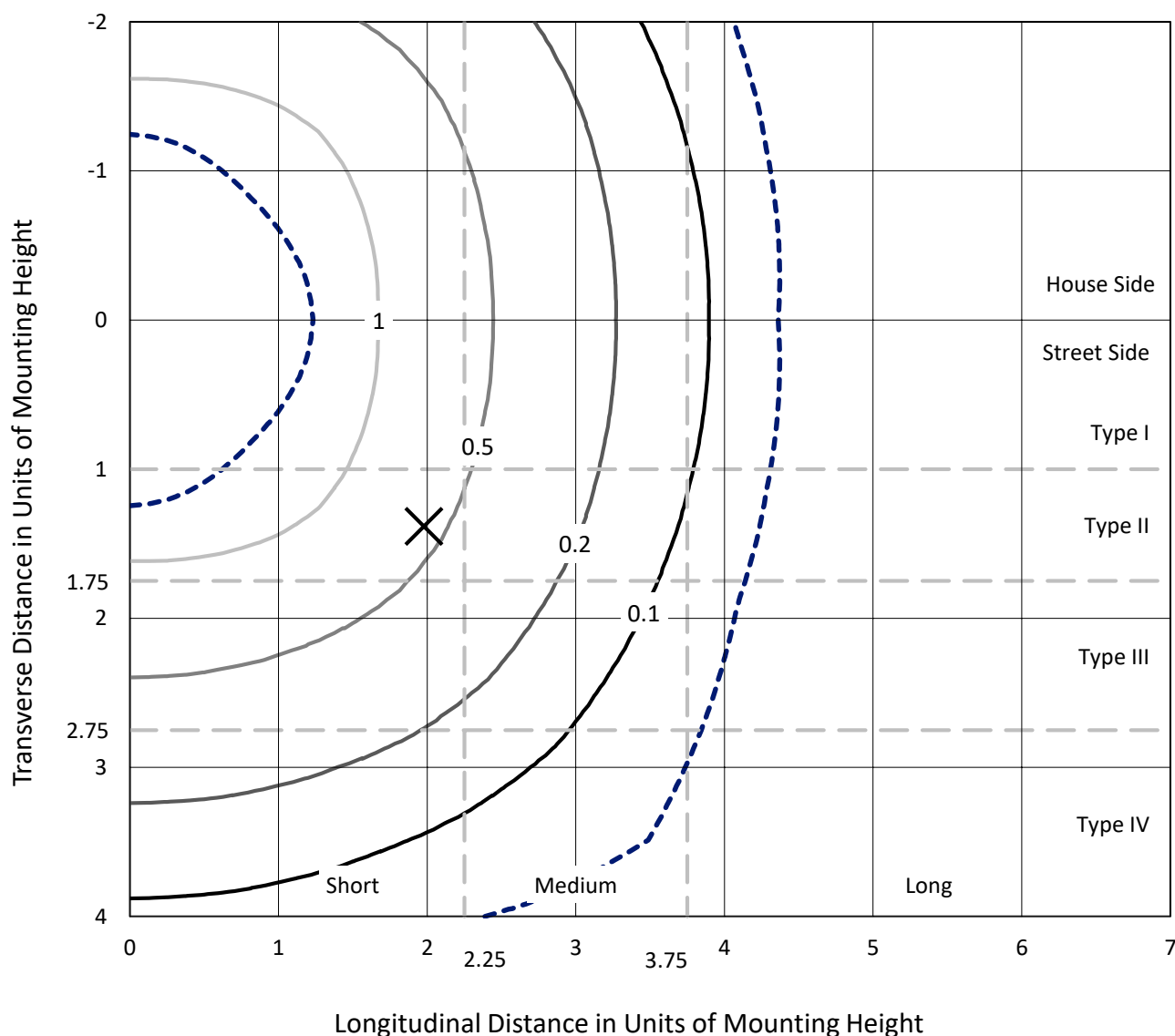


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

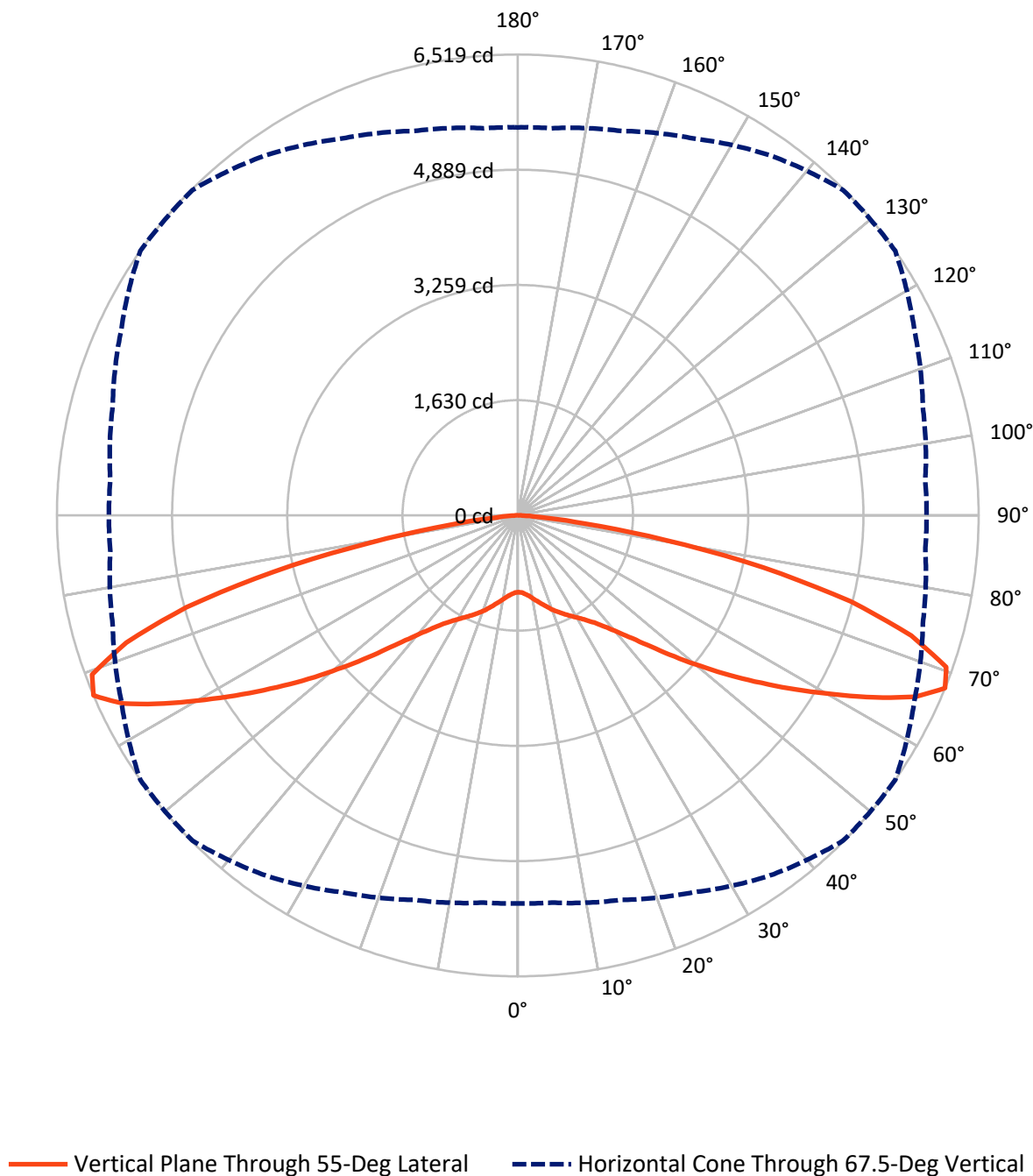


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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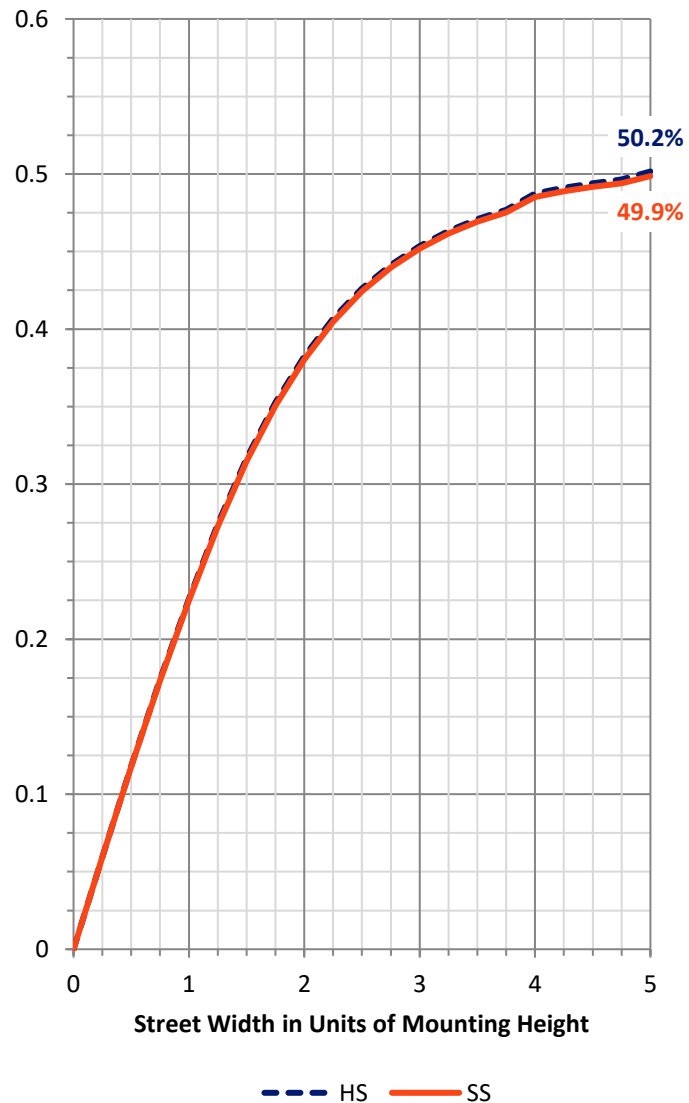
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9361.2	0.0	9361.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9361.2	0.0	9361.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18722.5	0.0	18722.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	0.6
10°-20°	372.5	2.0
20°-30°	716.3	3.8
30°-40°	1173.4	6.3
40°-50°	2039.8	10.9
50°-60°	3641.0	19.4
60°-70°	5621.4	30.0
70°-80°	4550.6	24.3
80°-90°	498.5	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°	18722.5	100.0
0°-180°	18722.5	100.0

Coefficient of Utilization



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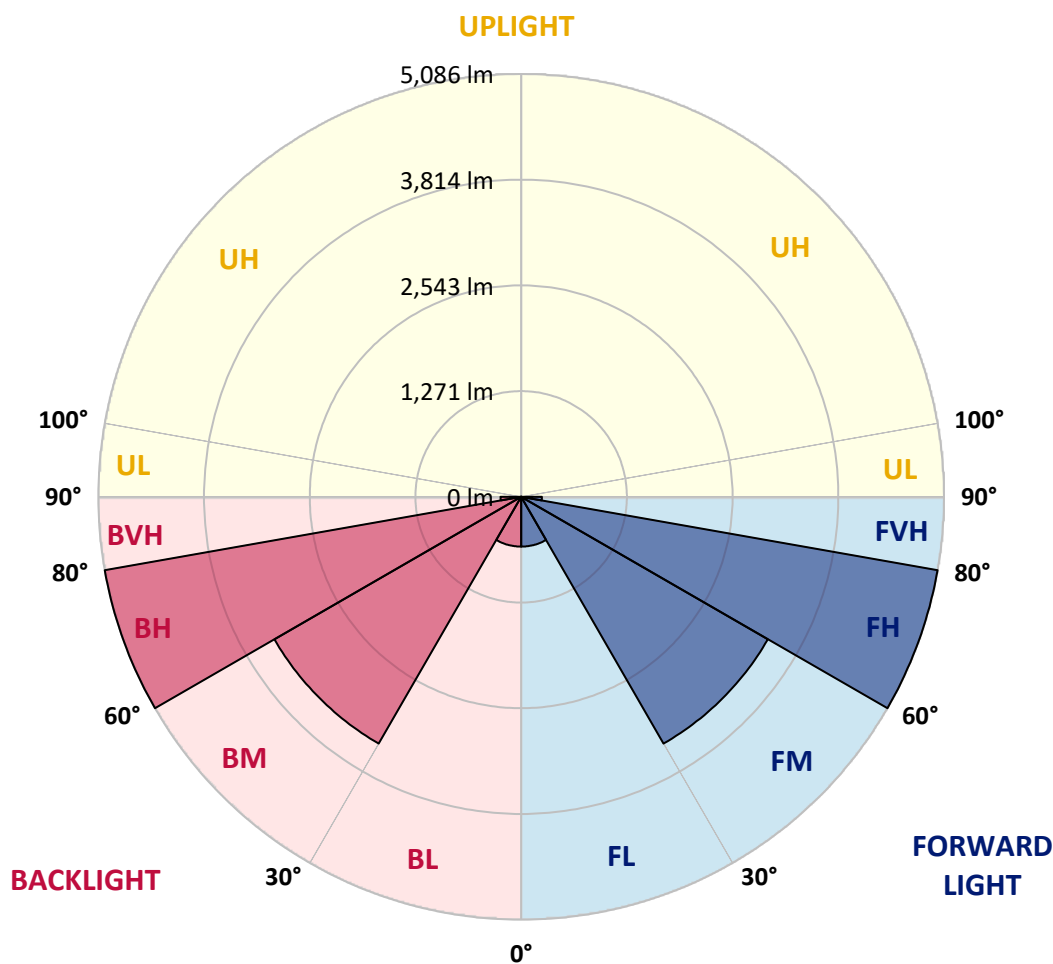
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	598.9	3.2			
FM	(30°-60°)	3427.1	18.3			
FH	(60°-80°)	5086.0	27.2			G3/7500
FVH	(80°-90°)	249.2	1.3			G3/500
BL	(0°-30°)	598.9	3.2	B2/1000		
BM	(30°-60°)	3427.1	18.3	B3/5000		
BH	(60°-80°)	5086.0	27.2	B5		G3/7500
BVH	(80°-90°)	249.2	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°	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3	1086.3
2.5°	1093.4	1094.6	1093.4	1093.4	1092.2	1092.2	1092.2	1093.4	1093.4	1095.8	1094.6
5°	1115.9	1117.1	1114.8	1117.1	1117.1	1118.3	1117.1	1115.9	1117.1	1118.3	1114.8
7.5°	1148.0	1150.3	1149.1	1150.3	1151.5	1150.3	1150.3	1149.1	1151.5	1150.3	1148.0
10°	1189.5	1191.8	1190.6	1193.0	1194.2	1195.4	1195.4	1193.0	1191.8	1191.8	1190.6
12.5°	1239.3	1239.3	1239.3	1242.8	1245.2	1247.6	1246.4	1244.0	1240.5	1241.6	1236.9
15°	1293.8	1296.2	1296.2	1297.4	1303.3	1304.5	1303.3	1299.8	1298.6	1296.2	1293.8
17.5°	1354.3	1355.5	1356.7	1357.9	1365.0	1368.5	1363.8	1357.9	1357.9	1356.7	1356.7
20°	1417.2	1416.0	1418.3	1420.7	1425.5	1429.0	1427.8	1421.9	1417.2	1420.7	1419.5
22.5°	1475.3	1476.5	1477.6	1481.2	1489.5	1490.7	1487.1	1482.4	1476.5	1477.6	1477.6
25°	1529.8	1531.0	1533.4	1538.1	1547.6	1553.5	1548.8	1541.7	1533.4	1533.4	1534.6
27.5°	1585.6	1586.7	1587.9	1596.2	1608.1	1615.2	1611.6	1599.8	1590.3	1587.9	1584.4
30°	1647.2	1647.2	1649.6	1660.3	1675.7	1684.0	1679.2	1665.0	1650.8	1648.4	1648.4
32.5°	1725.5	1720.7	1724.3	1738.5	1755.1	1764.6	1761.1	1744.5	1726.7	1723.1	1723.1
35°	1819.2	1816.8	1819.2	1835.8	1855.9	1870.2	1861.9	1846.5	1827.5	1823.9	1821.6
37.5°	1930.7	1931.8	1939.0	1957.9	1985.2	2003.0	1994.7	1969.8	1947.3	1947.3	1947.3
40°	2071.8	2074.1	2088.4	2116.8	2156.0	2171.4	2161.9	2131.1	2105.0	2095.5	2097.9
42.5°	2263.9	2262.7	2285.2	2320.8	2367.1	2389.6	2374.2	2341.0	2303.0	2287.6	2288.8
45°	2490.4	2507.0	2530.7	2575.8	2633.9	2673.0	2645.8	2609.0	2552.1	2529.5	2528.4
47.5°	2764.3	2782.1	2811.8	2886.5	2956.5	3003.9	2982.6	2922.1	2840.2	2808.2	2796.4
50°	3076.2	3098.8	3136.7	3232.8	3332.4	3385.8	3347.8	3268.4	3180.6	3132.0	3120.1
52.5°	3427.3	3434.4	3491.3	3607.5	3730.9	3796.1	3753.4	3658.5	3545.9	3500.8	3467.6
55°	3816.2	3822.2	3887.4	4019.0	4159.0	4236.1	4181.5	4061.7	3957.4	3879.1	3886.2
57.5°	4176.8	4194.5	4290.6	4444.8	4609.6	4703.3	4644.0	4517.1	4408.0	4319.1	4329.7
60°	4562.2	4581.2	4682.0	4865.8	5088.7	5213.2	5136.2	4999.8	4887.1	4802.9	4792.2
62.5°	4971.3	4982.0	5092.3	5257.1	5541.7	5742.2	5668.6	5518.0	5386.4	5303.4	5295.1
65°	5349.6	5363.9	5457.5	5637.8	5930.7	6223.6	6182.1	5973.4	5795.5	5675.7	5659.1
67.5°	5487.2	5496.7	5628.3	5880.9	6217.7	6507.1	6518.9	6190.4	5931.9	5786.0	5782.5
70°	5325.9	5333.0	5501.4	5801.5	6230.7	6471.5	6428.8	6099.1	5781.3	5602.2	5584.4
72.5°	4964.2	4965.4	5119.6	5374.5	5805.0	6001.9	5820.4	5639.0	5310.5	5176.5	5140.9
75°	4306.0	4307.2	4413.9	4583.5	4890.7	5072.1	4865.8	4699.7	4506.4	4427.0	4385.5
77.5°	2961.2	2979.0	3089.3	3285.0	3621.8	3822.2	3551.8	3250.6	3133.2	3065.6	3025.2
80°	1425.5	1452.7	1579.6	1772.9	2125.1	2445.3	2112.1	1740.9	1512.0	1325.8	1359.0
82.5°	380.7	385.4	494.5	710.4	990.2	1162.2	944.0	660.5	416.3	279.9	256.2
85°	100.8	106.7	149.4	205.2	311.9	397.3	303.6	193.3	147.1	109.1	99.6
87.5°	27.3	32.0	52.2	62.9	78.3	62.9	78.3	67.6	65.2	34.4	24.9
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)