

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: P157593

Luminaire Tested: **VST-F07-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157593
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15399.6 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

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

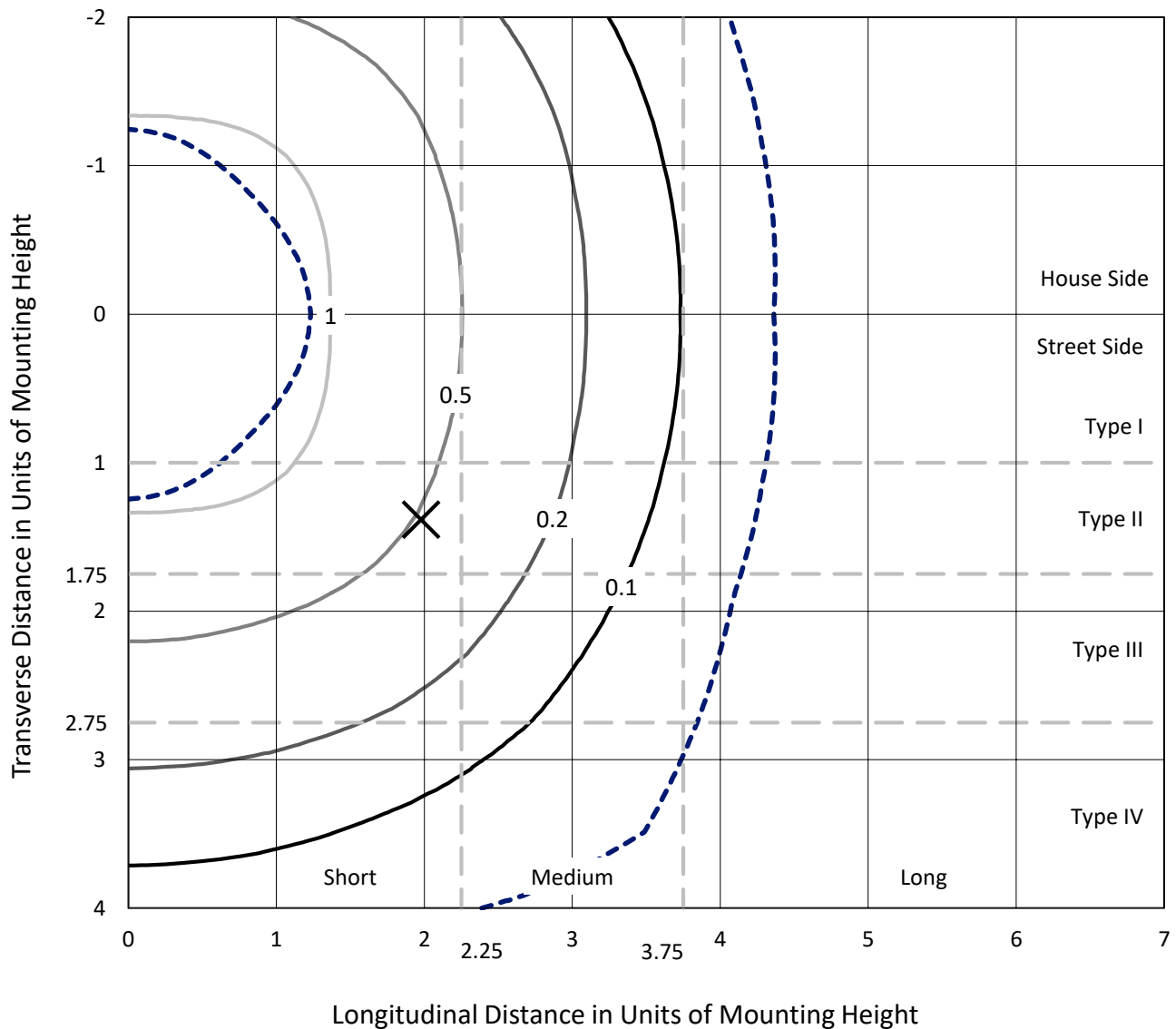


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

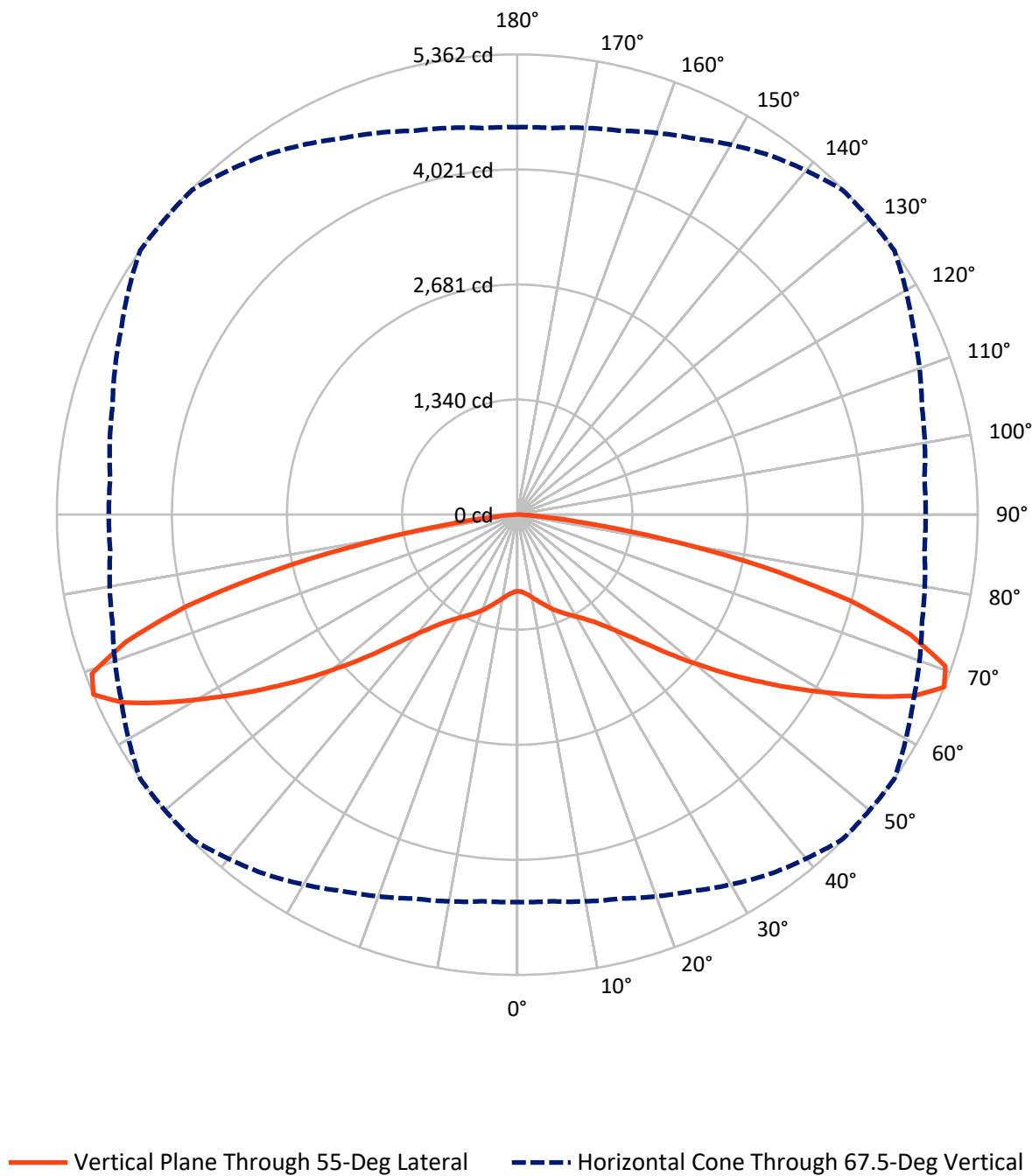


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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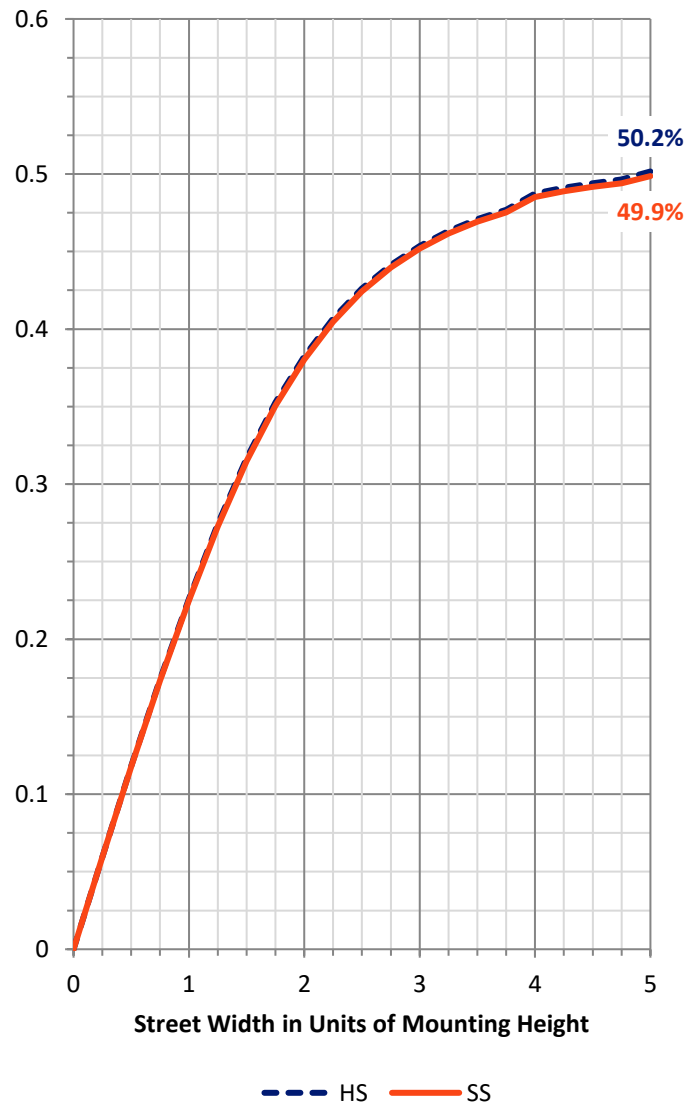
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7699.8	0.0	7699.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7699.8	0.0	7699.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15399.6	0.0	15399.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	0.6
10°-20°	306.4	2.0
20°-30°	589.2	3.8
30°-40°	965.1	6.3
40°-50°	1677.8	10.9
50°-60°	2994.8	19.4
60°-70°	4623.7	30.0
70°-80°	3742.9	24.3
80°-90°	410.0	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°	15399.6	100.0
0°-180°	15399.6	100.0

Coefficient of Utilization



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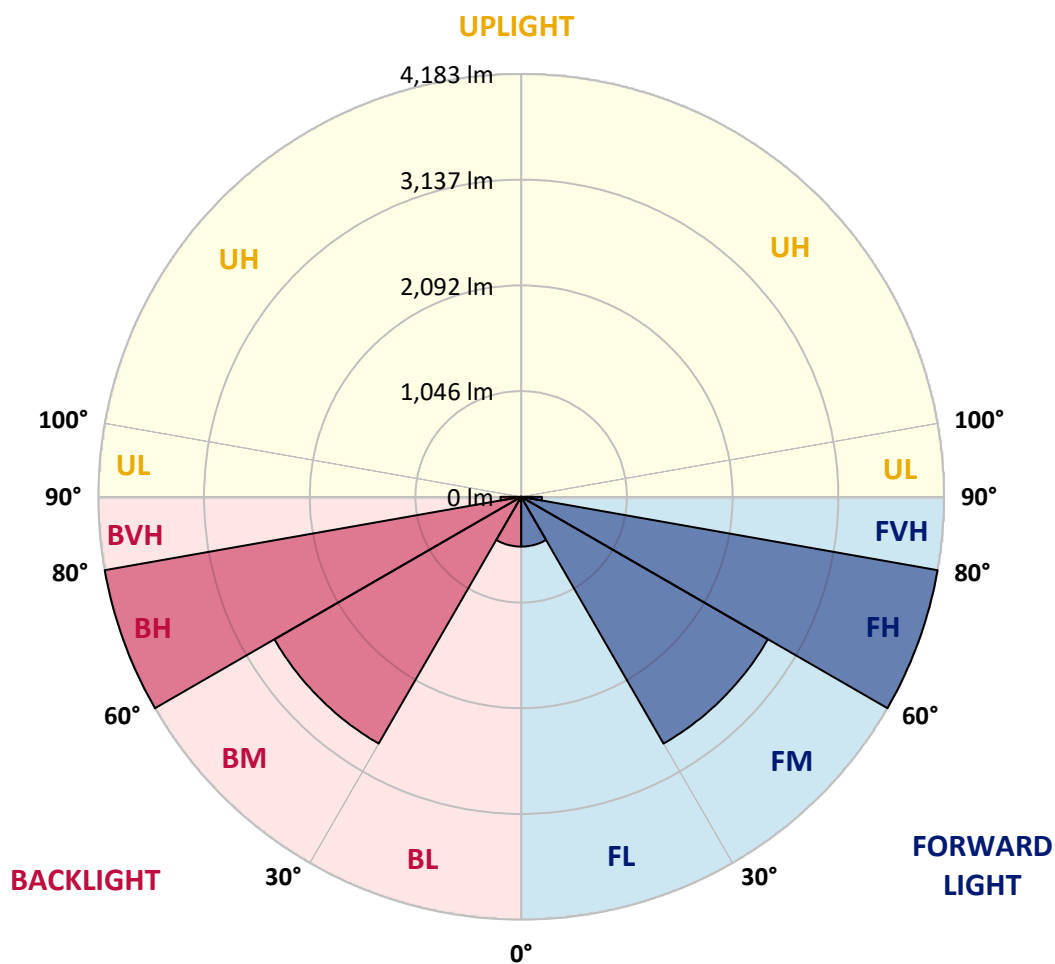
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.6	3.2			
FM	(30°-60°)	2818.8	18.3			
FH	(60°-80°)	4183.3	27.2			G2/5000
FVH	(80°-90°)	205.0	1.3			G2/225
BL	(0°-30°)	492.6	3.2	B1/500		
BM	(30°-60°)	2818.8	18.3	B3/5000		
BH	(60°-80°)	4183.3	27.2	B4/5000		G2/5000
BVH	(80°-90°)	205.0	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	899.3	900.3	899.3	899.3	898.4	898.4	898.4	899.3	899.3	901.3	900.3
5°	917.9	918.9	916.9	918.9	918.9	919.8	918.9	917.9	918.9	919.8	916.9
7.5°	944.2	946.2	945.2	946.2	947.1	946.2	946.2	945.2	947.1	946.2	944.2
10°	978.4	980.3	979.3	981.3	982.3	983.2	983.2	981.3	980.3	980.3	979.3
12.5°	1019.3	1019.3	1019.3	1022.3	1024.2	1026.2	1025.2	1023.2	1020.3	1021.3	1017.4
15°	1064.2	1066.1	1066.1	1067.1	1072.0	1073.0	1072.0	1069.1	1068.1	1066.1	1064.2
17.5°	1113.9	1114.9	1115.9	1116.9	1122.7	1125.6	1121.7	1116.9	1116.9	1115.9	1115.9
20°	1165.6	1164.7	1166.6	1168.6	1172.5	1175.4	1174.4	1169.5	1165.6	1168.6	1167.6
22.5°	1213.4	1214.4	1215.4	1218.3	1225.1	1226.1	1223.2	1219.3	1214.4	1215.4	1215.4
25°	1258.3	1259.3	1261.2	1265.1	1272.9	1277.8	1273.9	1268.1	1261.2	1261.2	1262.2
27.5°	1304.1	1305.1	1306.1	1312.9	1322.7	1328.5	1325.6	1315.9	1308.1	1306.1	1303.2
30°	1354.9	1354.9	1356.8	1365.6	1378.3	1385.1	1381.2	1369.5	1357.8	1355.8	1355.8
32.5°	1419.3	1415.3	1418.3	1430.0	1443.6	1451.4	1448.5	1434.9	1420.2	1417.3	1417.3
35°	1496.3	1494.4	1496.3	1510.0	1526.5	1538.3	1531.4	1518.7	1503.1	1500.2	1498.3
37.5°	1588.0	1589.0	1594.8	1610.4	1632.9	1647.5	1640.7	1620.2	1601.7	1601.7	1601.7
40°	1704.1	1706.0	1717.7	1741.1	1773.3	1786.0	1778.2	1752.8	1731.4	1723.6	1725.5
42.5°	1862.1	1861.1	1879.7	1908.9	1947.0	1965.5	1952.8	1925.5	1894.3	1881.6	1882.6
45°	2048.4	2062.1	2081.6	2118.6	2166.4	2198.6	2176.2	2145.9	2099.1	2080.6	2079.6
47.5°	2273.7	2288.4	2312.7	2374.2	2431.7	2470.8	2453.2	2403.5	2336.2	2309.8	2300.1
50°	2530.3	2548.8	2580.0	2659.0	2741.0	2784.9	2753.6	2688.3	2616.1	2576.1	2566.4
52.5°	2819.0	2824.8	2871.7	2967.3	3068.7	3122.4	3087.2	3009.2	2916.5	2879.5	2852.2
55°	3138.9	3143.8	3197.5	3305.7	3420.8	3484.2	3439.4	3340.8	3255.0	3190.6	3196.5
57.5°	3435.5	3450.1	3529.1	3655.9	3791.5	3868.6	3819.8	3715.4	3625.7	3552.5	3561.3
60°	3752.5	3768.1	3851.0	4002.2	4185.6	4288.0	4224.6	4112.4	4019.7	3950.5	3941.7
62.5°	4089.0	4097.8	4188.5	4324.1	4558.2	4723.0	4662.6	4538.7	4430.4	4362.1	4355.3
65°	4400.2	4411.9	4488.9	4637.2	4878.1	5119.1	5084.9	4913.2	4766.9	4668.4	4654.8
67.5°	4513.3	4521.1	4629.4	4837.2	5114.2	5352.2	5361.9	5091.7	4879.1	4759.1	4756.2
70°	4380.7	4386.5	4525.0	4771.8	5124.9	5322.9	5287.8	5016.6	4755.2	4607.9	4593.3
72.5°	4083.1	4084.1	4210.9	4420.6	4774.7	4936.7	4787.4	4638.2	4368.0	4257.8	4228.5
75°	3541.8	3542.8	3630.5	3770.0	4022.7	4171.9	4002.2	3865.6	3706.6	3641.3	3607.1
77.5°	2435.6	2450.3	2541.0	2701.9	2979.0	3143.8	2921.4	2673.7	2577.1	2521.5	2488.3
80°	1172.5	1194.9	1299.3	1458.3	1748.0	2011.3	1737.2	1431.9	1243.7	1090.5	1117.8
82.5°	313.1	317.0	406.8	584.3	814.5	955.9	776.4	543.3	342.4	230.2	210.7
85°	82.9	87.8	122.9	168.7	256.5	326.8	249.7	159.0	121.0	89.7	81.9
87.5°	22.4	26.3	42.9	51.7	64.4	51.7	64.4	55.6	53.6	28.3	20.5
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)