

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: P841981

Luminaire Tested: **ARCH4-250-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37926 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

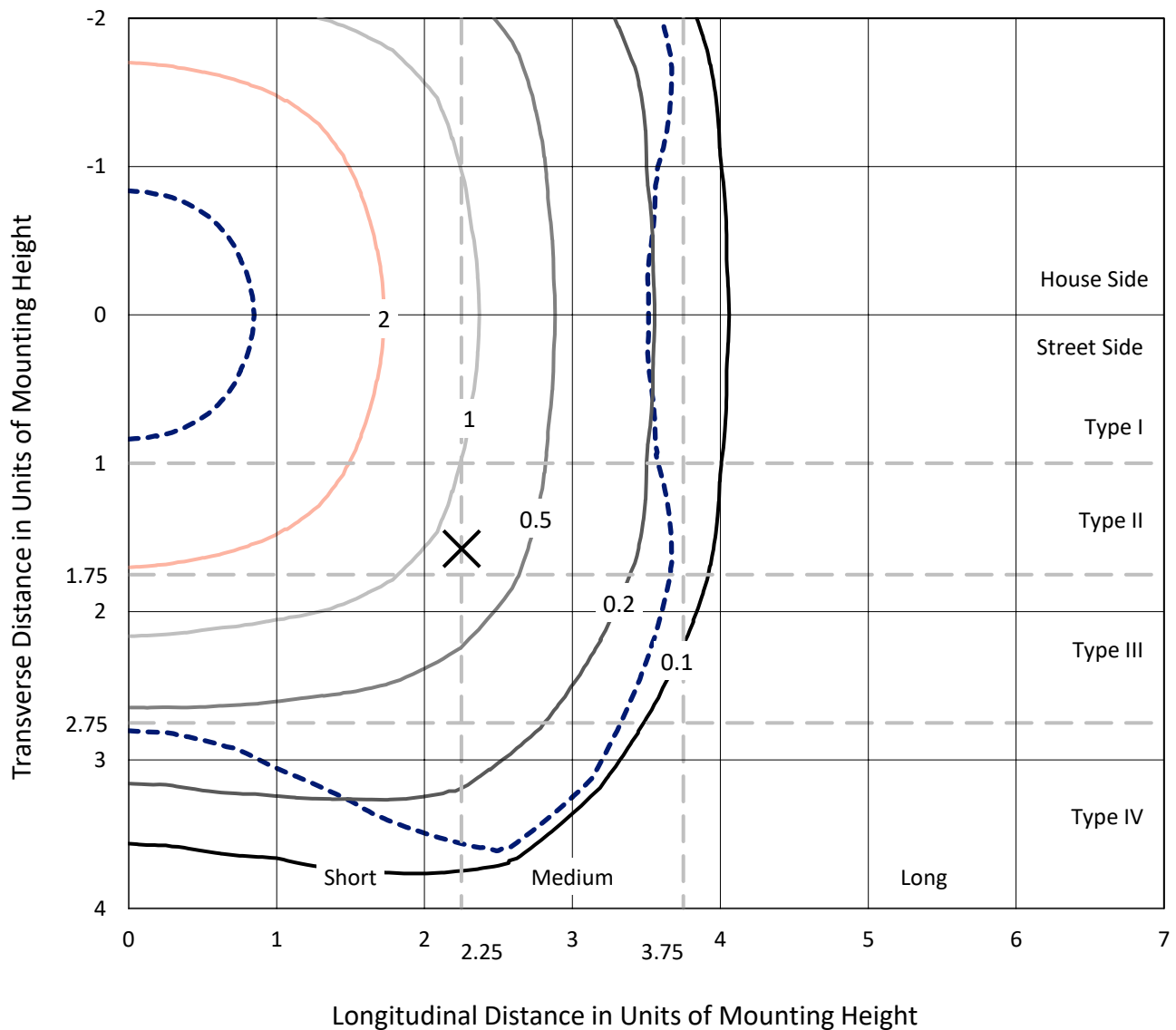
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

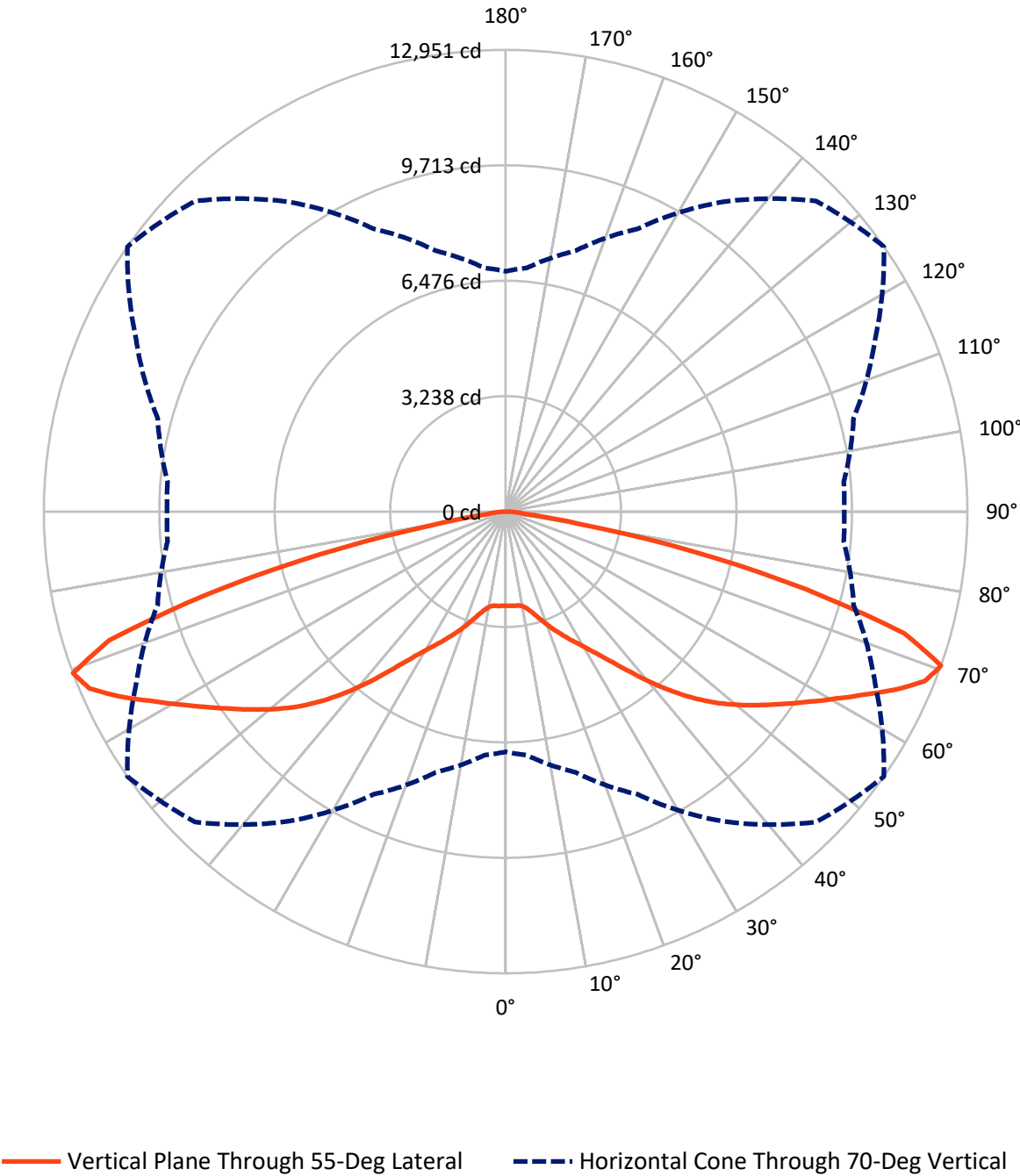
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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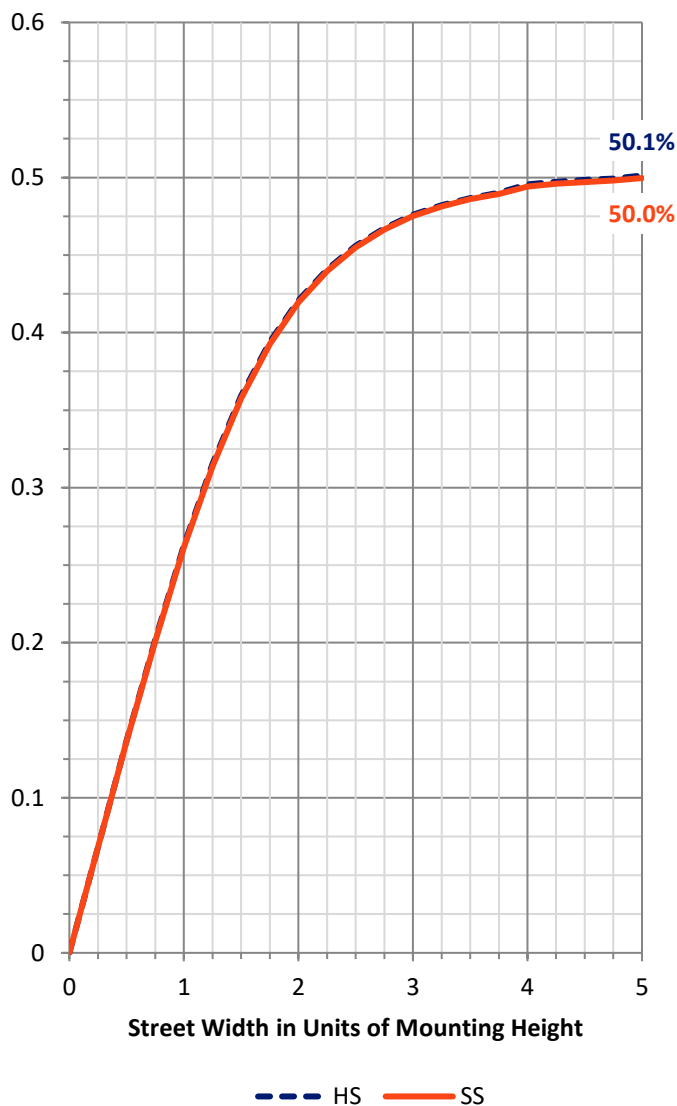
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18963.0	0.0	18963.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18963.0	0.0	18963.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37926.0	0.0	37926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	0.7
10°-20°	868.7	2.3
20°-30°	1805.0	4.8
30°-40°	3333.6	8.8
40°-50°	5856.5	15.4
50°-60°	8446.4	22.3
60°-70°	10337.5	27.3
70°-80°	6578.0	17.3
80°-90°	445.1	1.2
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°	37926.0	100.0
0°-180°	37926.0	100.0

Coefficient of Utilization



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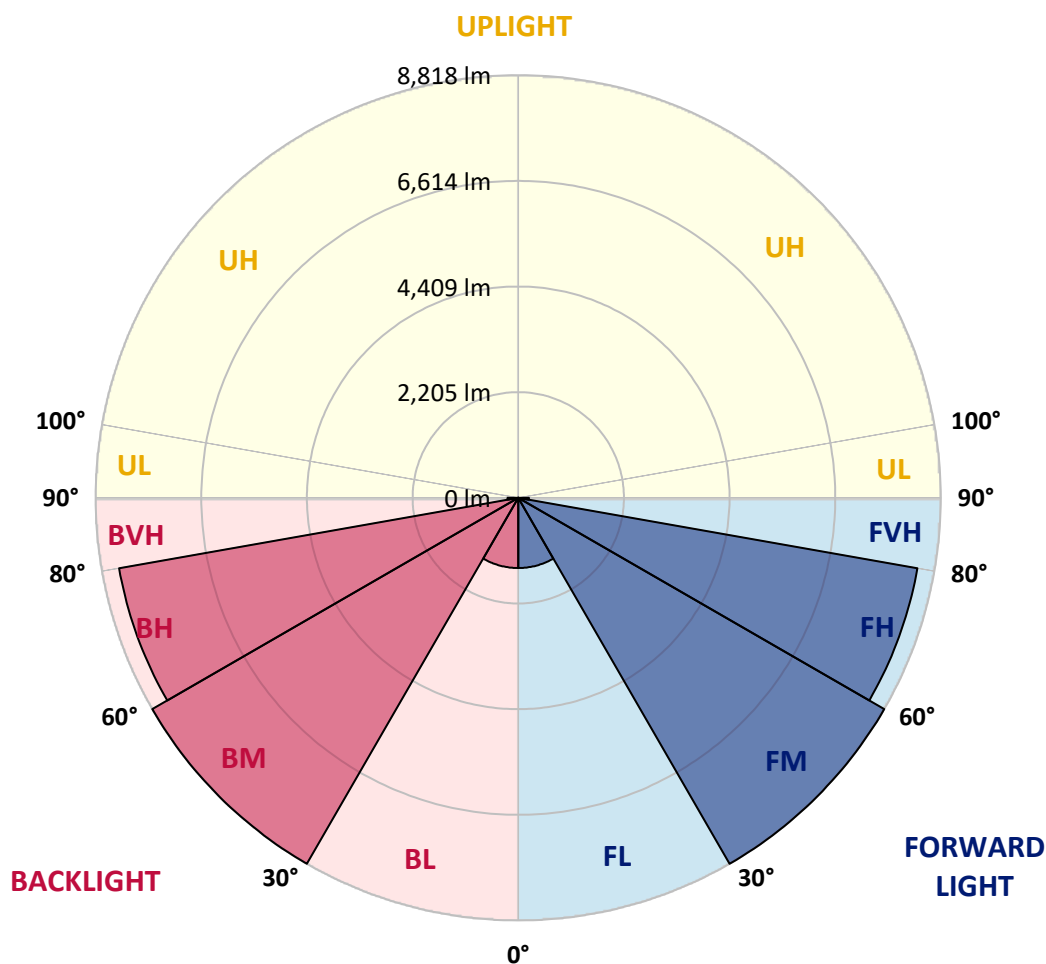
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.4	3.9			
FM	(30°-60°)	8818.3	23.3			
FH	(60°-80°)	8457.8	22.3			G4/12000
FVH	(80°-90°)	222.6	0.6			G2/225
BL	(0°-30°)	1464.4	3.9	B3/2500		
BM	(30°-60°)	8818.3	23.3	B5		
BH	(60°-80°)	8457.8	22.3	B5		G4/12000
BVH	(80°-90°)	222.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8
2.5°	2679.1	2679.1	2672.0	2672.0	2657.9	2650.9	2643.8	2643.8	2636.7	2636.7	2629.7
5°	2693.2	2693.2	2693.2	2686.1	2679.1	2672.0	2657.9	2643.8	2636.7	2629.7	2622.6
7.5°	2700.2	2700.2	2693.2	2693.2	2686.1	2679.1	2657.9	2636.7	2629.7	2622.6	2622.6
10°	2756.6	2749.6	2742.5	2728.4	2728.4	2728.4	2700.2	2679.1	2672.0	2672.0	2672.0
12.5°	2890.6	2883.5	2869.4	2848.3	2848.3	2855.3	2813.0	2784.8	2784.8	2777.8	2777.8
15°	3088.0	3080.9	3066.8	3031.6	3024.5	3038.6	2975.2	2947.0	2947.0	2947.0	2939.9
17.5°	3306.5	3292.4	3271.3	3243.1	3243.1	3243.1	3179.6	3144.4	3123.2	3123.2	3116.2
20°	3489.8	3482.8	3482.8	3475.7	3496.9	3496.9	3412.3	3355.9	3306.5	3278.3	3271.3
22.5°	3652.0	3644.9	3659.0	3687.2	3729.5	3743.6	3644.9	3560.3	3482.8	3426.4	3412.3
25°	3870.5	3863.5	3856.4	3898.7	3969.2	3990.4	3884.6	3778.9	3701.3	3673.1	3659.0
27.5°	4103.2	4110.2	4117.3	4159.6	4216.0	4251.2	4145.5	4046.8	3983.3	3941.0	3926.9
30°	4364.0	4378.1	4399.3	4462.7	4505.0	4519.1	4427.5	4357.0	4300.6	4265.3	4244.2
32.5°	4695.4	4723.6	4751.8	4808.2	4829.3	4815.2	4772.9	4723.6	4681.3	4631.9	4624.9
35°	5188.9	5217.1	5210.0	5231.2	5238.2	5224.1	5203.0	5174.8	5153.6	5090.2	5083.1
37.5°	5809.3	5837.5	5795.2	5774.1	5724.7	5731.8	5724.7	5745.9	5752.9	5689.5	5682.4
40°	6436.8	6465.0	6408.6	6352.2	6302.8	6281.7	6316.9	6387.4	6387.4	6345.1	6345.1
42.5°	7106.5	7127.7	7036.0	6965.5	6902.1	6888.0	6909.1	6993.7	7014.9	7007.8	7007.8
45°	7776.3	7762.2	7642.3	7571.8	7515.4	7480.2	7487.2	7550.7	7593.0	7614.1	7614.1
47.5°	8291.0	8269.8	8171.1	8114.7	8079.5	8030.1	8030.1	8065.4	8086.5	8093.6	8093.6
50°	8699.9	8678.7	8580.0	8573.0	8573.0	8551.8	8530.7	8523.6	8509.5	8516.6	8516.6
52.5°	9052.4	9024.2	8953.7	8967.8	9031.2	9045.3	9017.1	8960.7	8904.3	8883.2	8890.2
55°	9433.1	9390.8	9334.4	9376.7	9503.6	9560.0	9517.7	9404.9	9306.2	9242.7	9242.7
57.5°	9736.2	9686.9	9686.9	9806.7	10039.4	10152.2	10060.5	9849.0	9679.8	9609.3	9616.4
60°	9524.7	9482.4	9651.6	10180.4	10617.5	10807.9	10652.8	10279.1	10004.1	9919.5	9933.6
62.5°	9108.8	9080.6	9292.1	10109.9	11139.2	11534.0	11301.4	10765.6	10356.6	10257.9	10257.9
65°	8495.4	8488.4	8784.5	9792.6	11259.1	12232.0	12034.6	11294.3	10765.6	10631.6	10659.8
67.5°	7860.9	7860.9	8128.8	9249.8	11118.1	12528.1	12683.2	11773.7	10963.0	10631.6	10638.7
70°	6739.9	6859.8	7571.8	8749.2	10603.4	12316.6	12951.1	11435.3	10102.8	9517.7	9496.5
72.5°	4441.6	4596.7	6013.8	7875.0	10095.8	11548.1	11689.1	10046.4	8389.7	7705.8	7670.5
75°	2679.1	2813.0	3898.7	6147.7	8876.1	9299.1	8678.7	7875.0	6267.6	5731.8	5731.8
77.5°	789.6	881.3	1797.8	3898.7	6140.7	6112.5	5351.1	4639.0	3708.4	3151.4	3193.7
80°	465.3	479.4	585.2	1776.6	2545.1	2679.1	2065.7	1290.2	1290.2	958.8	930.6
82.5°	359.6	359.6	373.7	444.2	613.4	683.9	521.7	444.2	507.6	430.1	408.9
85°	253.8	253.8	253.8	260.9	267.9	275.0	289.1	296.1	324.3	267.9	253.8
87.5°	77.6	84.6	91.7	105.8	126.9	134.0	141.0	126.9	126.9	119.9	112.8
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)