

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: P841909

Luminaire Tested: **ARCH4-240-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841909
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: ARCH4-240-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36856 lumens
Efficiency: N/A
Efficacy: 153.4 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): 240.2
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

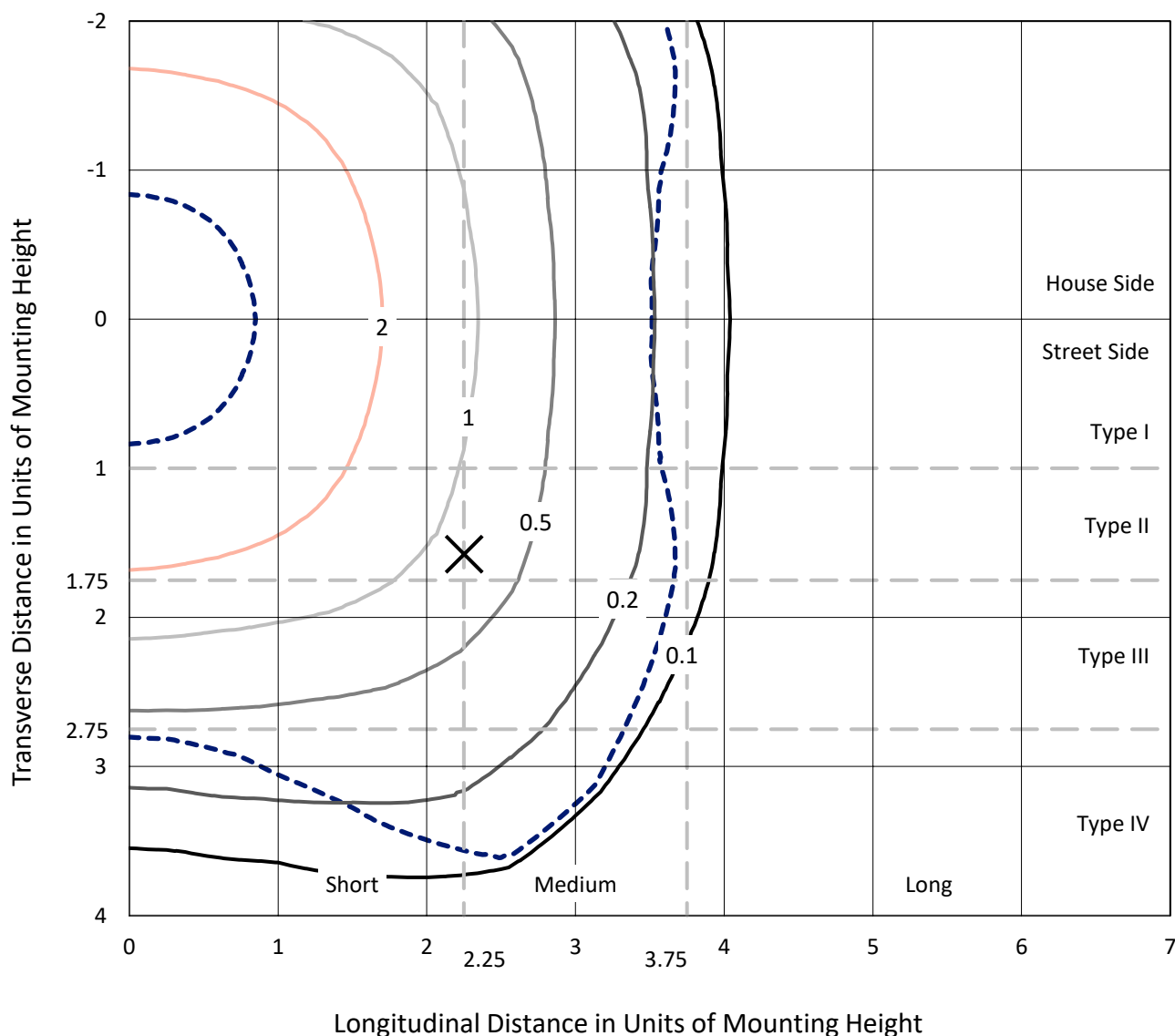


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Iso-Footcandle Lines of Horizontal Illumination

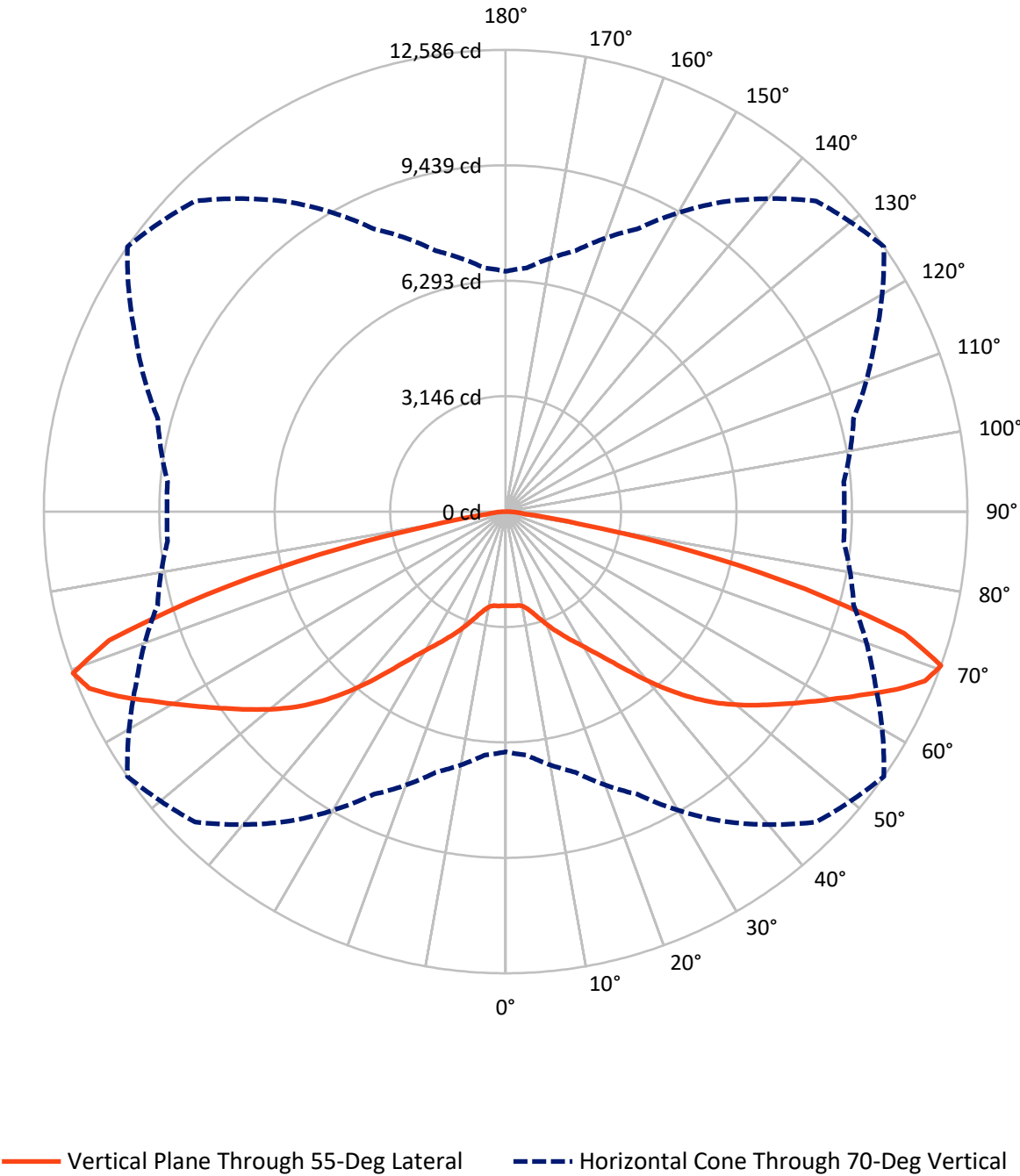
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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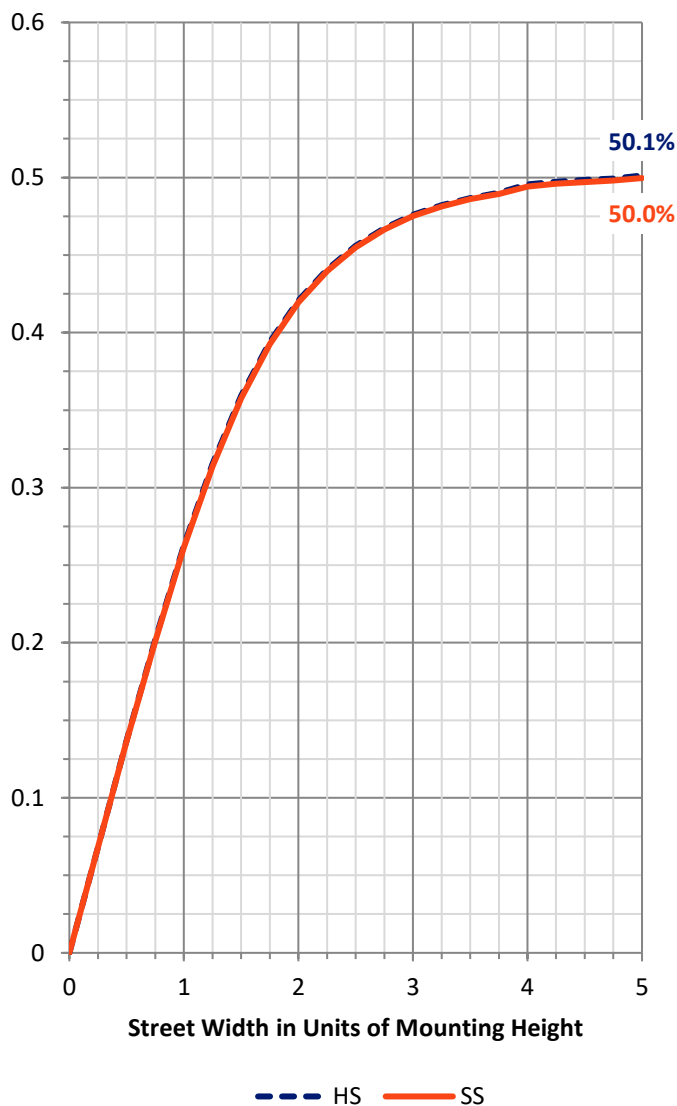
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18428.0	0.0	18428.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18428.0	0.0	18428.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36856.0	0.0	36856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	0.7
10°-20°	844.2	2.3
20°-30°	1754.0	4.8
30°-40°	3239.6	8.8
40°-50°	5691.3	15.4
50°-60°	8208.1	22.3
60°-70°	10045.9	27.3
70°-80°	6392.4	17.3
80°-90°	432.5	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°	36856.0	100.0
0°-180°	36856.0	100.0

Coefficient of Utilization



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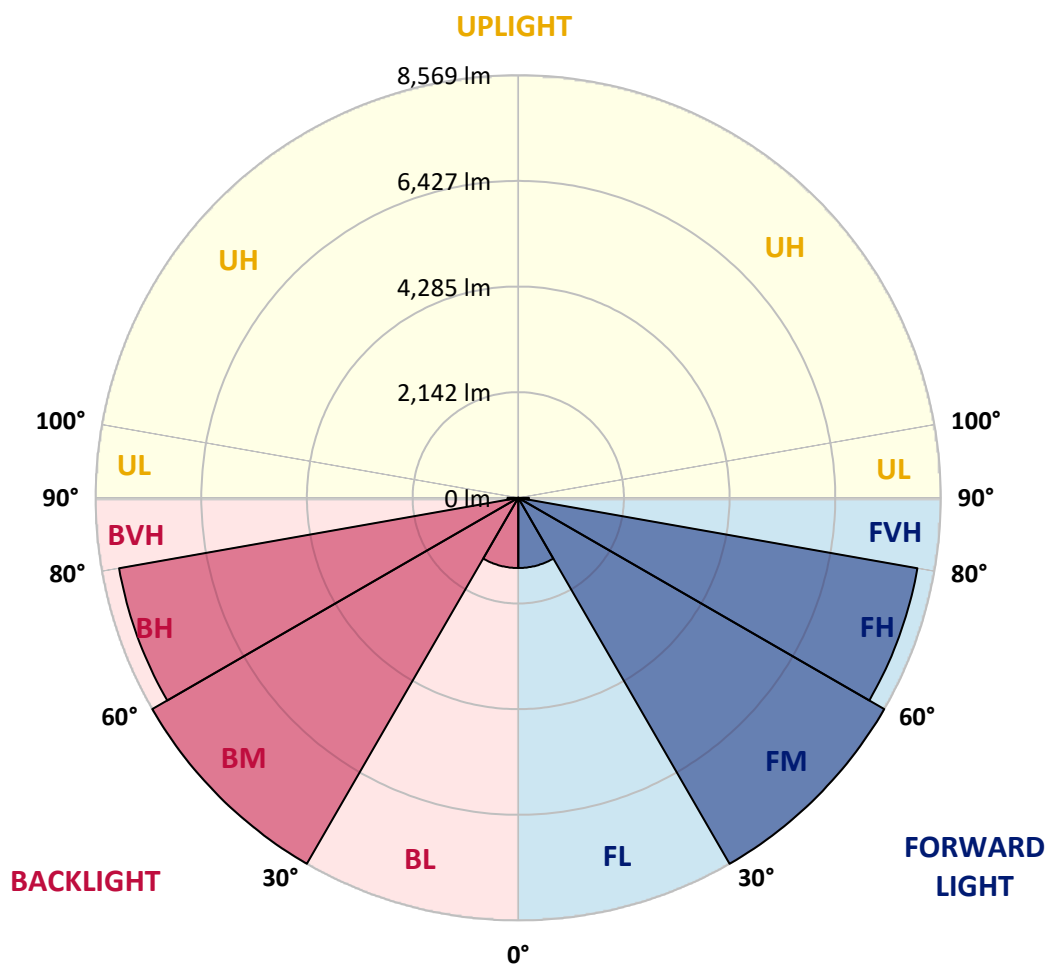
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1423.1	3.9			
FM	(30°-60°)	8569.5	23.3			
FH	(60°-80°)	8219.1	22.3			G4/12000
FVH	(80°-90°)	216.3	0.6			G2/225
BL	(0°-30°)	1423.1	3.9	B3/2500		
BM	(30°-60°)	8569.5	23.3	B5		
BH	(60°-80°)	8219.1	22.3	B5		G4/12000
BVH	(80°-90°)	216.3	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°	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2	2569.2
2.5°	2603.5	2603.5	2596.6	2596.6	2582.9	2576.1	2569.2	2569.2	2562.4	2562.4	2555.5
5°	2617.2	2617.2	2617.2	2610.3	2603.5	2596.6	2582.9	2569.2	2562.4	2555.5	2548.7
7.5°	2624.0	2624.0	2617.2	2617.2	2610.3	2603.5	2582.9	2562.4	2555.5	2548.7	2548.7
10°	2678.8	2672.0	2665.1	2651.4	2651.4	2651.4	2624.0	2603.5	2596.6	2596.6	2596.6
12.5°	2809.0	2802.2	2788.5	2767.9	2767.9	2774.7	2733.6	2706.2	2706.2	2699.4	2699.4
15°	3000.8	2994.0	2980.3	2946.0	2939.2	2952.9	2891.2	2863.8	2863.8	2863.8	2857.0
17.5°	3213.2	3199.5	3179.0	3151.6	3151.6	3151.6	3089.9	3055.6	3035.1	3035.1	3028.2
20°	3391.4	3384.5	3384.5	3377.7	3398.2	3398.2	3316.0	3261.2	3213.2	3185.8	3179.0
22.5°	3548.9	3542.1	3555.8	3583.2	3624.3	3638.0	3542.1	3459.9	3384.5	3329.7	3316.0
25°	3761.3	3754.5	3747.6	3788.7	3857.2	3877.8	3775.0	3672.3	3596.9	3569.5	3555.8
27.5°	3987.4	3994.3	4001.1	4042.2	4097.0	4131.3	4028.5	3932.6	3870.9	3829.8	3816.1
30°	4240.9	4254.6	4275.2	4336.8	4377.9	4391.6	4302.6	4234.1	4179.2	4145.0	4124.4
32.5°	4562.9	4590.3	4617.7	4672.5	4693.1	4679.4	4638.3	4590.3	4549.2	4501.3	4494.4
35°	5042.5	5069.9	5063.1	5083.6	5090.5	5076.8	5056.2	5028.8	5008.2	4946.6	4939.7
37.5°	5645.4	5672.8	5631.7	5611.2	5563.2	5570.0	5563.2	5583.8	5590.6	5528.9	5522.1
40°	6255.2	6282.6	6227.8	6173.0	6125.0	6104.4	6138.7	6207.2	6207.2	6166.1	6166.1
42.5°	6906.0	6926.6	6837.5	6769.0	6707.4	6693.7	6714.2	6796.4	6817.0	6810.1	6810.1
45°	7556.9	7543.2	7426.7	7358.2	7303.4	7269.2	7276.0	7337.7	7378.8	7399.3	7399.3
47.5°	8057.0	8036.5	7940.6	7885.8	7851.5	7803.5	7803.5	7837.8	7858.4	7865.2	7865.2
50°	8454.4	8433.9	8337.9	8331.1	8331.1	8310.5	8290.0	8283.1	8269.4	8276.3	8276.3
52.5°	8797.0	8769.6	8701.1	8714.8	8776.4	8790.1	8762.7	8707.9	8653.1	8632.5	8639.4
55°	9166.9	9125.8	9071.0	9112.1	9235.5	9290.3	9249.2	9139.5	9043.6	8982.0	8982.0
57.5°	9461.5	9413.6	9413.6	9530.1	9756.2	9865.8	9776.7	9571.2	9406.7	9338.2	9345.1
60°	9256.0	9214.9	9379.3	9893.2	10318.0	10502.9	10352.2	9989.1	9721.9	9639.7	9653.4
62.5°	8851.8	8824.4	9029.9	9824.7	10824.9	11208.6	10982.5	10461.8	10064.5	9968.5	9968.5
65°	8255.7	8248.9	8536.6	9516.4	10941.4	11886.9	11695.0	10975.7	10461.8	10331.7	10359.1
67.5°	7639.1	7639.1	7899.5	8988.8	10804.4	12174.6	12325.4	11441.6	10653.7	10331.7	10338.5
70°	6549.8	6666.2	7358.2	8502.4	10304.2	11969.1	12585.7	11112.7	9817.8	9249.2	9228.6
72.5°	4316.3	4467.0	5844.1	7652.8	9811.0	11222.3	11359.3	9763.0	8153.0	7488.4	7454.1
75°	2603.5	2733.6	3788.7	5974.3	8625.7	9036.8	8433.9	7652.8	6090.7	5570.0	5570.0
77.5°	767.3	856.4	1747.1	3788.7	5967.4	5940.0	5200.1	4508.1	3603.7	3062.5	3103.6
80°	452.2	465.9	568.7	1726.5	2473.3	2603.5	2007.4	1253.8	1253.8	931.8	904.4
82.5°	349.4	349.4	363.1	431.6	596.1	664.6	507.0	431.6	493.3	417.9	397.4
85°	246.6	246.6	246.6	253.5	260.3	267.2	280.9	287.8	315.2	260.3	246.6
87.5°	75.4	82.2	89.1	102.8	123.3	130.2	137.0	123.3	123.3	116.5	109.6
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)