

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: P841828

Luminaire Tested: **ARCH4-230-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841828
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: ARCH4-230-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35752 lumens
Efficiency: N/A
Efficacy: 154.6 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): 231.2
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

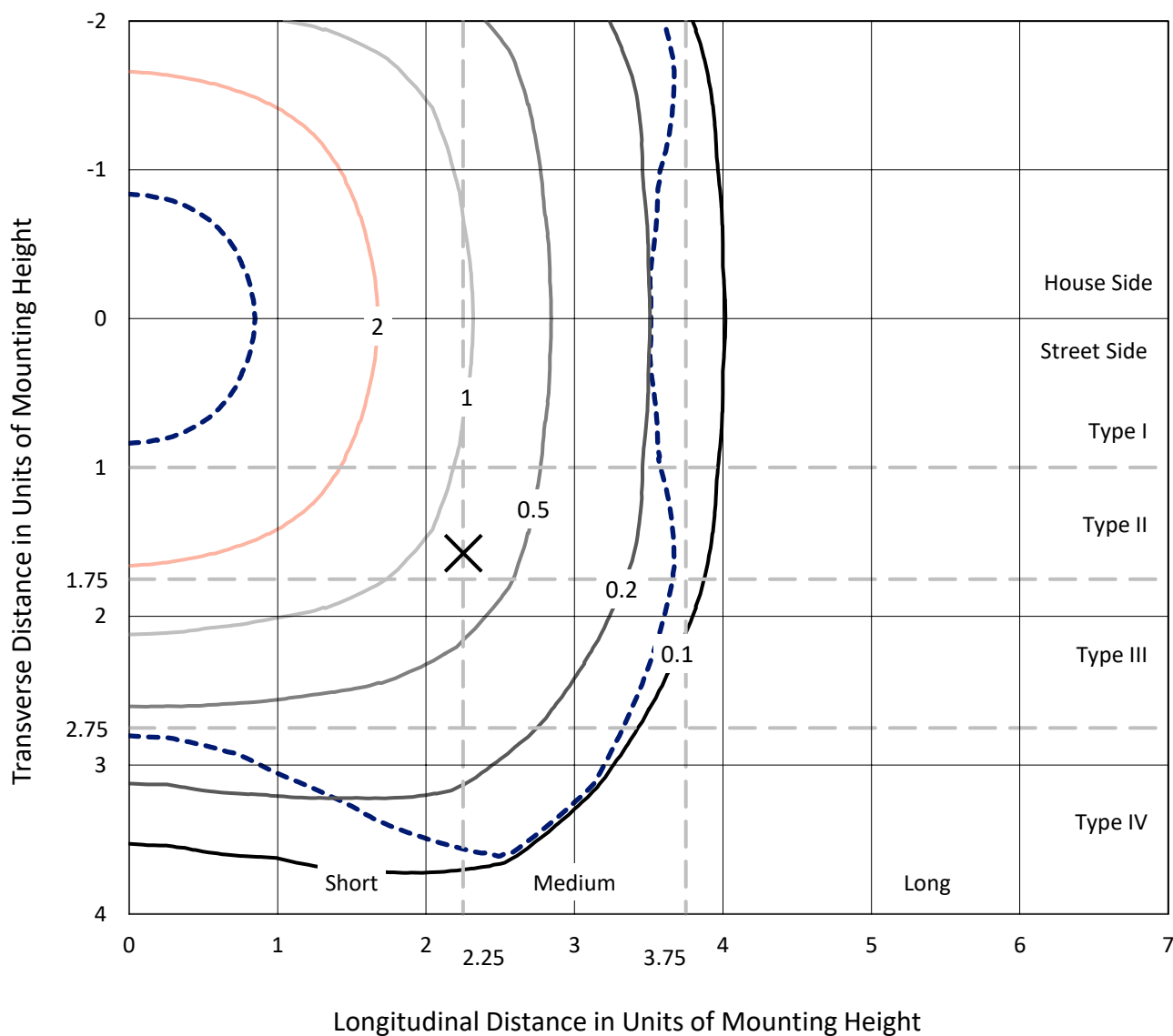


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Iso-Footcandle Lines of Horizontal Illumination

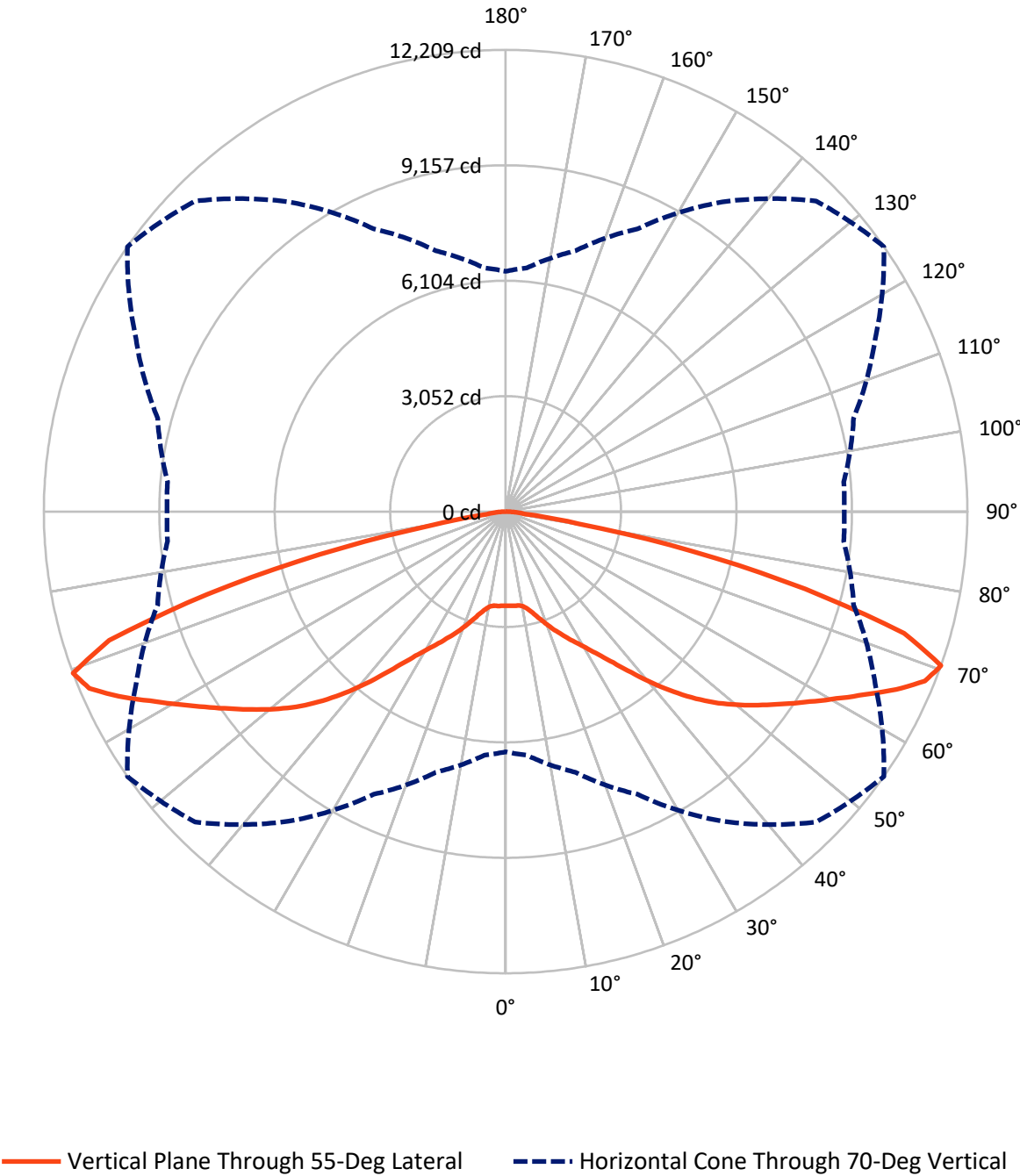
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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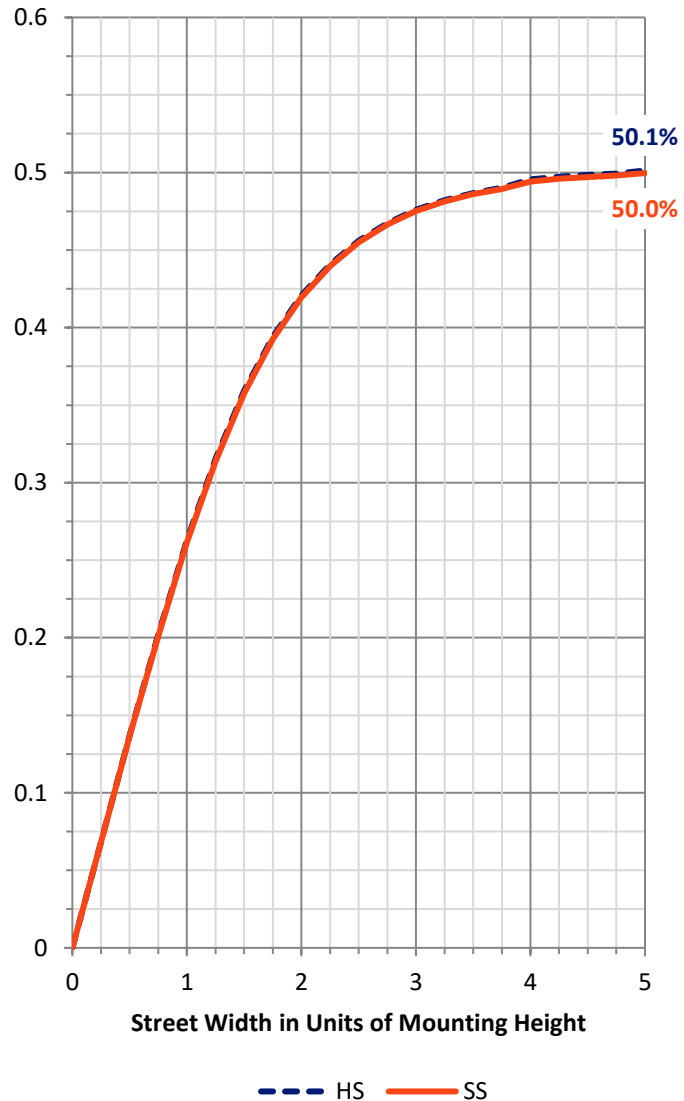
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17876.0	0.0	17876.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17876.0	0.0	17876.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35752.0	0.0	35752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	0.7
10°-20°	818.9	2.3
20°-30°	1701.5	4.8
30°-40°	3142.5	8.8
40°-50°	5520.8	15.4
50°-60°	7962.3	22.3
60°-70°	9744.9	27.3
70°-80°	6200.9	17.3
80°-90°	419.6	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°	35752.0	100.0
0°-180°	35752.0	100.0

Coefficient of Utilization



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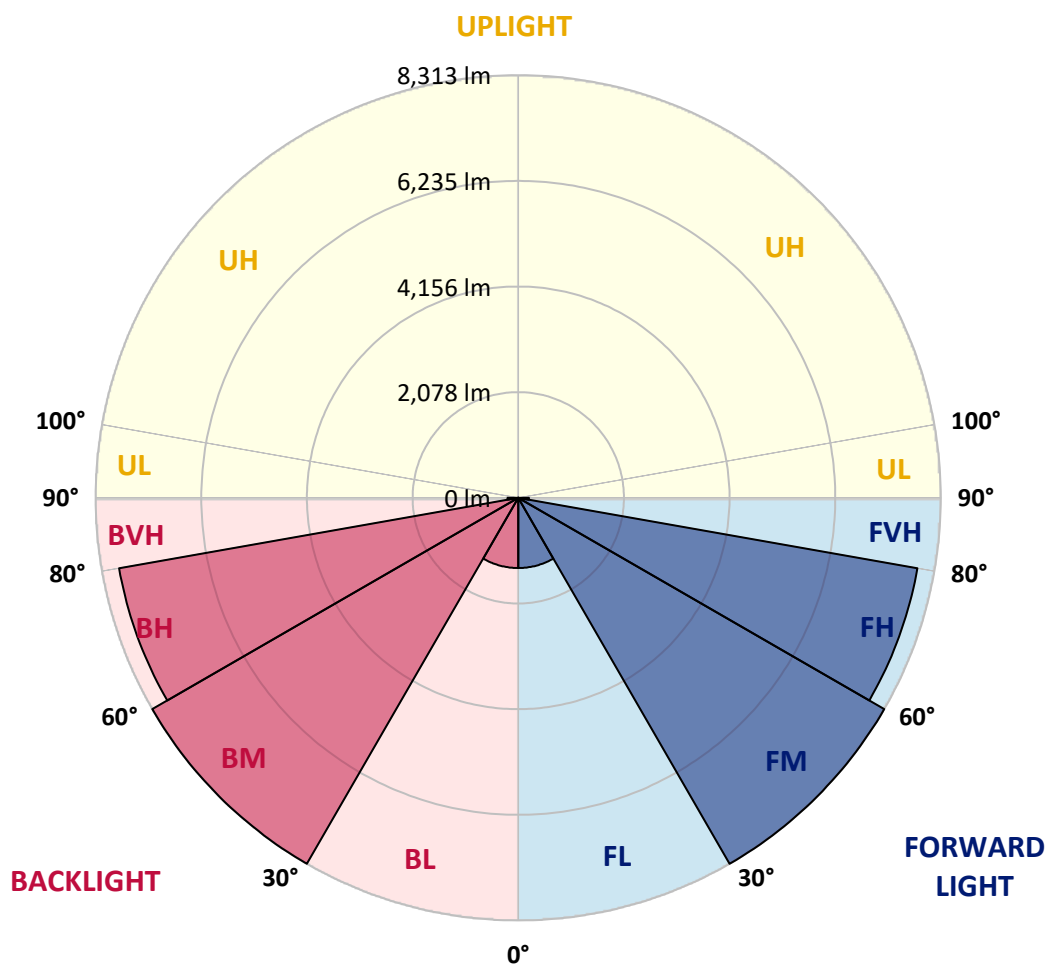
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1380.5	3.9			
FM	(30°-60°)	8312.8	23.3			
FH	(60°-80°)	7972.9	22.3			G4/12000
FVH	(80°-90°)	209.8	0.6			G2/225
BL	(0°-30°)	1380.5	3.9	B3/2500		
BM	(30°-60°)	8312.8	23.3	B4/8500		
BH	(60°-80°)	7972.9	22.3	B5		G4/12000
BVH	(80°-90°)	209.8	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°	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3
2.5°	2525.5	2525.5	2518.8	2518.8	2505.5	2498.9	2492.3	2492.3	2485.6	2485.6	2479.0
5°	2538.8	2538.8	2538.8	2532.1	2525.5	2518.8	2505.5	2492.3	2485.6	2479.0	2472.3
7.5°	2545.4	2545.4	2538.8	2538.8	2532.1	2525.5	2505.5	2485.6	2479.0	2472.3	2472.3
10°	2598.6	2591.9	2585.3	2572.0	2572.0	2572.0	2545.4	2525.5	2518.8	2518.8	2518.8
12.5°	2724.9	2718.2	2704.9	2685.0	2685.0	2691.6	2651.8	2625.2	2625.2	2618.5	2618.5
15°	2910.9	2904.3	2891.0	2857.8	2851.1	2864.4	2804.6	2778.0	2778.0	2778.0	2771.4
17.5°	3117.0	3103.7	3083.7	3057.2	3057.2	3057.2	2997.3	2964.1	2944.2	2944.2	2937.5
20°	3289.8	3283.1	3283.1	3276.5	3296.4	3296.4	3216.7	3163.5	3117.0	3090.4	3083.7
22.5°	3442.6	3436.0	3449.3	3475.9	3515.7	3529.0	3436.0	3356.2	3283.1	3230.0	3216.7
25°	3648.7	3642.0	3635.4	3675.2	3741.7	3761.6	3661.9	3562.3	3489.2	3462.6	3449.3
27.5°	3868.0	3874.6	3881.3	3921.1	3974.3	4007.5	3907.9	3814.8	3755.0	3715.1	3701.8
30°	4113.9	4127.2	4147.1	4206.9	4246.8	4260.1	4173.7	4107.2	4054.1	4020.8	4000.9
32.5°	4426.2	4452.8	4479.4	4532.6	4552.5	4539.2	4499.3	4452.8	4412.9	4366.4	4359.8
35°	4891.5	4918.0	4911.4	4931.3	4938.0	4924.7	4904.8	4878.2	4858.2	4798.4	4791.8
37.5°	5476.3	5502.9	5463.0	5443.1	5396.6	5403.2	5396.6	5416.5	5423.1	5363.3	5356.7
40°	6067.8	6094.4	6041.2	5988.1	5941.5	5921.6	5954.8	6021.3	6021.3	5981.4	5981.4
42.5°	6699.2	6719.1	6632.7	6566.3	6506.4	6493.1	6513.1	6592.8	6612.8	6606.1	6606.1
45°	7330.5	7317.3	7204.3	7137.8	7084.6	7051.4	7058.1	7117.9	7157.7	7177.7	7177.7
47.5°	7815.7	7795.8	7702.7	7649.6	7616.3	7569.8	7569.8	7603.0	7623.0	7629.6	7629.6
50°	8201.2	8181.2	8088.2	8081.5	8081.5	8061.6	8041.7	8035.0	8021.7	8028.4	8028.4
52.5°	8533.5	8506.9	8440.4	8453.7	8513.5	8526.8	8500.2	8447.1	8393.9	8374.0	8380.6
55°	8892.4	8852.5	8799.3	8839.2	8958.8	9012.0	8972.1	8865.8	8772.7	8712.9	8712.9
57.5°	9178.1	9131.6	9131.6	9244.6	9463.9	9570.2	9483.8	9284.5	9125.0	9058.5	9065.2
60°	8978.8	8938.9	9098.4	9596.8	10008.9	10188.3	10042.1	9689.9	9430.7	9350.9	9364.2
62.5°	8586.6	8560.1	8759.4	9530.4	10500.7	10872.9	10653.5	10148.4	9763.0	9669.9	9669.9
65°	8008.4	8001.8	8280.9	9231.3	10613.7	11530.8	11344.7	10646.9	10148.4	10022.2	10048.8
67.5°	7410.3	7410.3	7662.8	8719.6	10480.7	11809.9	11956.2	11098.8	10334.5	10022.2	10028.8
70°	6353.6	6466.6	7137.8	8247.7	9995.6	11610.6	12208.7	10779.8	9523.7	8972.1	8952.2
72.5°	4187.0	4333.2	5669.0	7423.6	9517.1	10886.2	11019.1	9470.6	7908.7	7264.1	7230.9
75°	2525.5	2651.8	3675.2	5795.3	8367.3	8766.1	8181.2	7423.6	5908.3	5403.2	5403.2
77.5°	744.4	830.8	1694.7	3675.2	5788.7	5762.1	5044.3	4373.1	3495.8	2970.8	3010.6
80°	438.6	451.9	551.6	1674.8	2399.2	2525.5	1947.3	1216.2	1216.2	903.9	877.3
82.5°	338.9	338.9	352.2	418.7	578.2	644.7	491.8	418.7	478.5	405.4	385.5
85°	239.3	239.3	239.3	245.9	252.5	259.2	272.5	279.1	305.7	252.5	239.3
87.5°	73.1	79.8	86.4	99.7	119.6	126.3	132.9	119.6	119.6	113.0	106.3
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)