

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: P841684

Luminaire Tested: **ARCH4-210-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841684
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: ARCH4-210-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33423 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 213.1
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

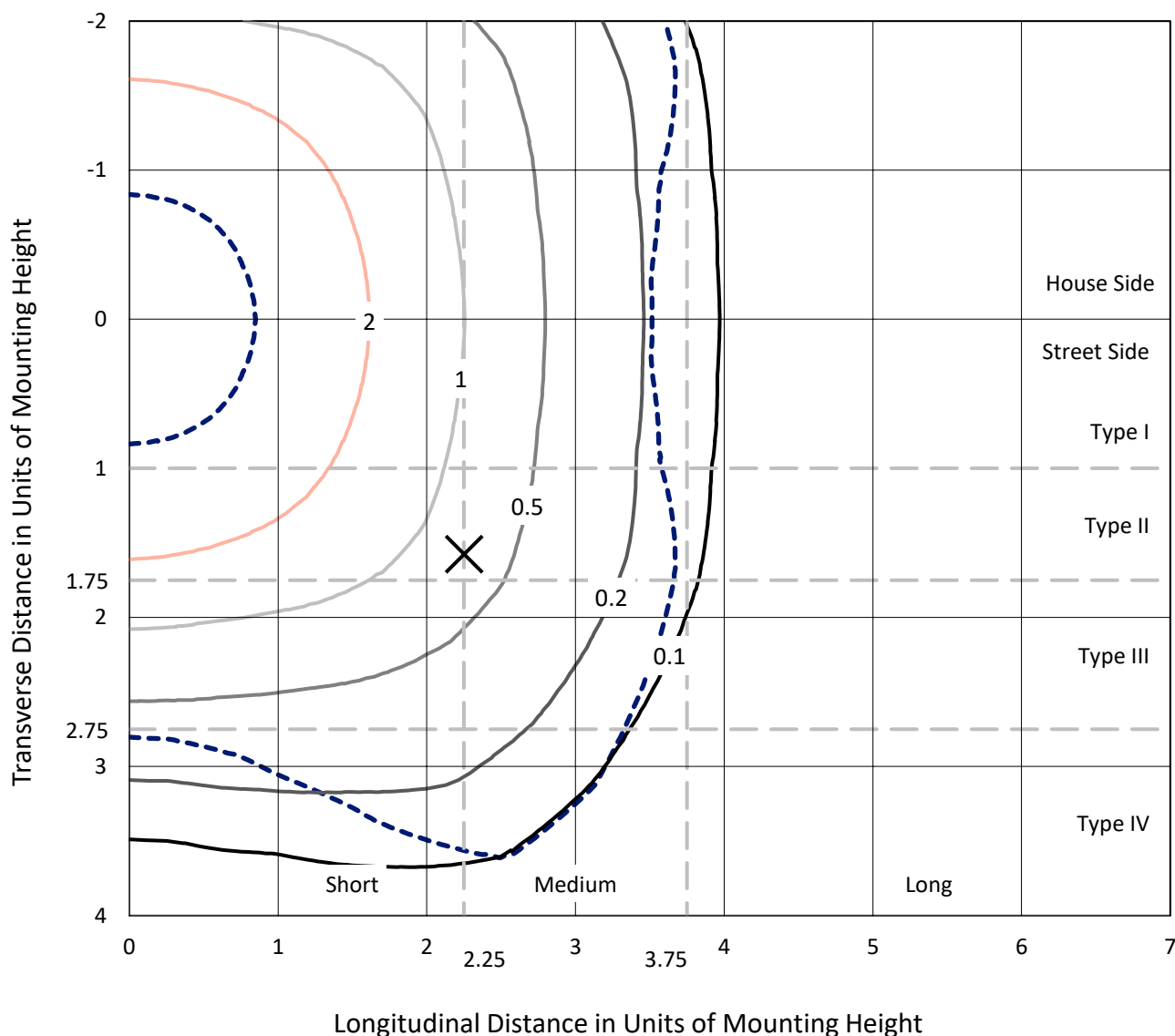


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Iso-Footcandle Lines of Horizontal Illumination

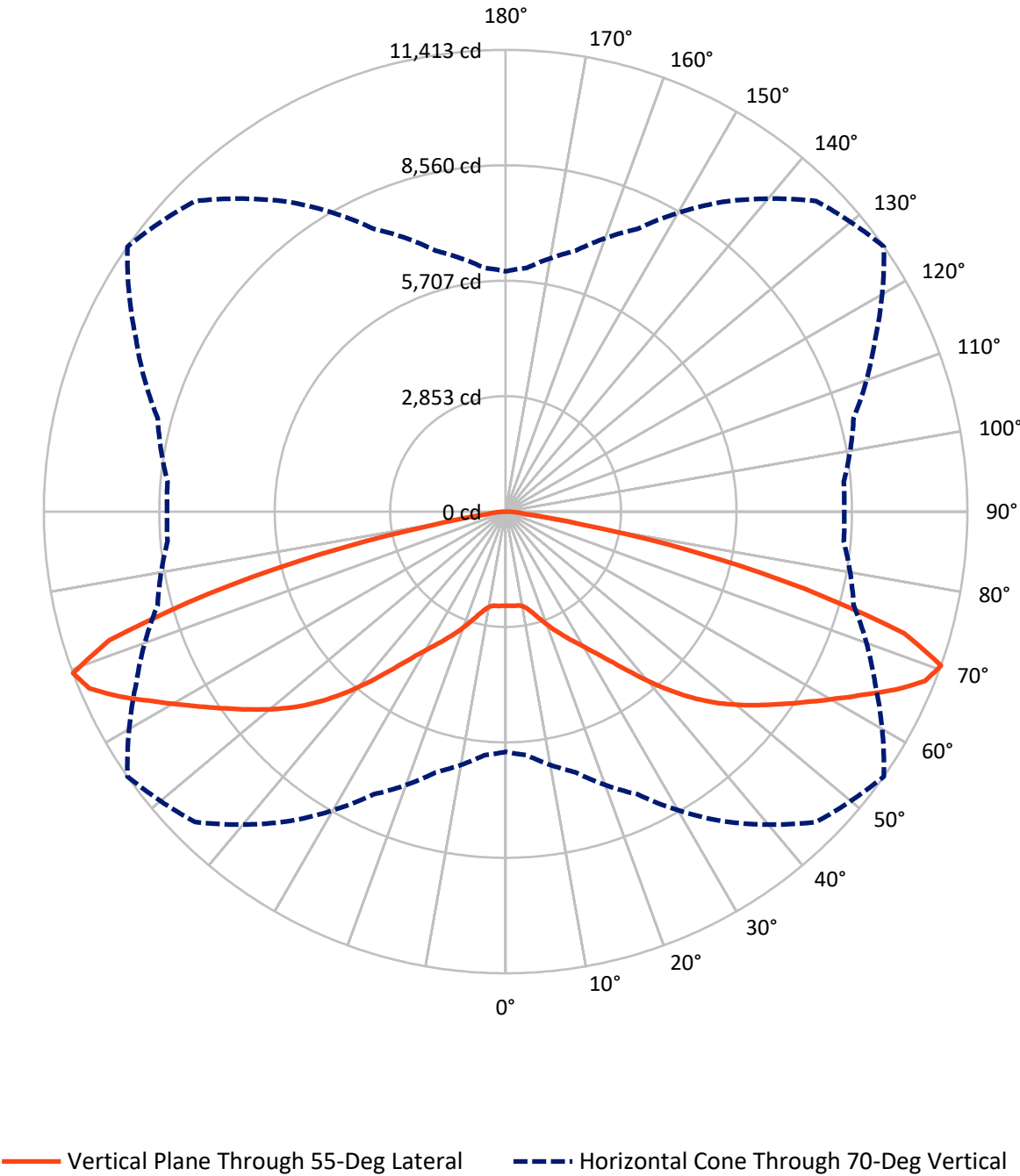
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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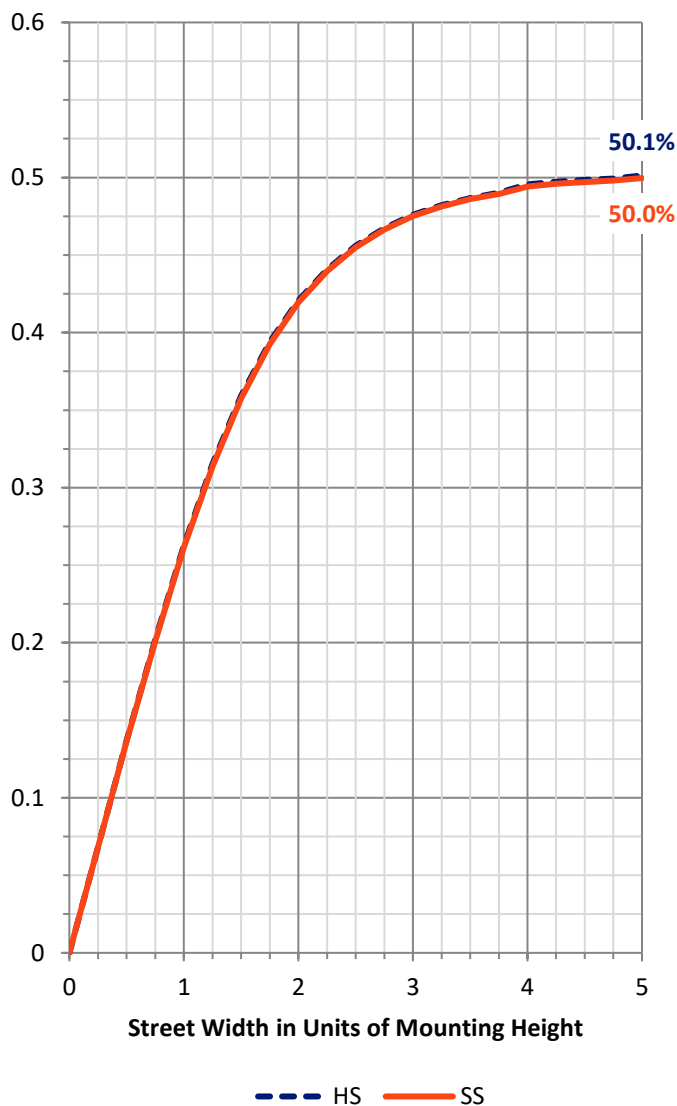
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16711.5	0.0	16711.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16711.5	0.0	16711.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33423.0	0.0	33423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	0.7
10°-20°	765.5	2.3
20°-30°	1590.7	4.8
30°-40°	2937.8	8.8
40°-50°	5161.1	15.4
50°-60°	7443.6	22.3
60°-70°	9110.1	27.3
70°-80°	5797.0	17.3
80°-90°	392.2	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°	33423.0	100.0
0°-180°	33423.0	100.0

Coefficient of Utilization



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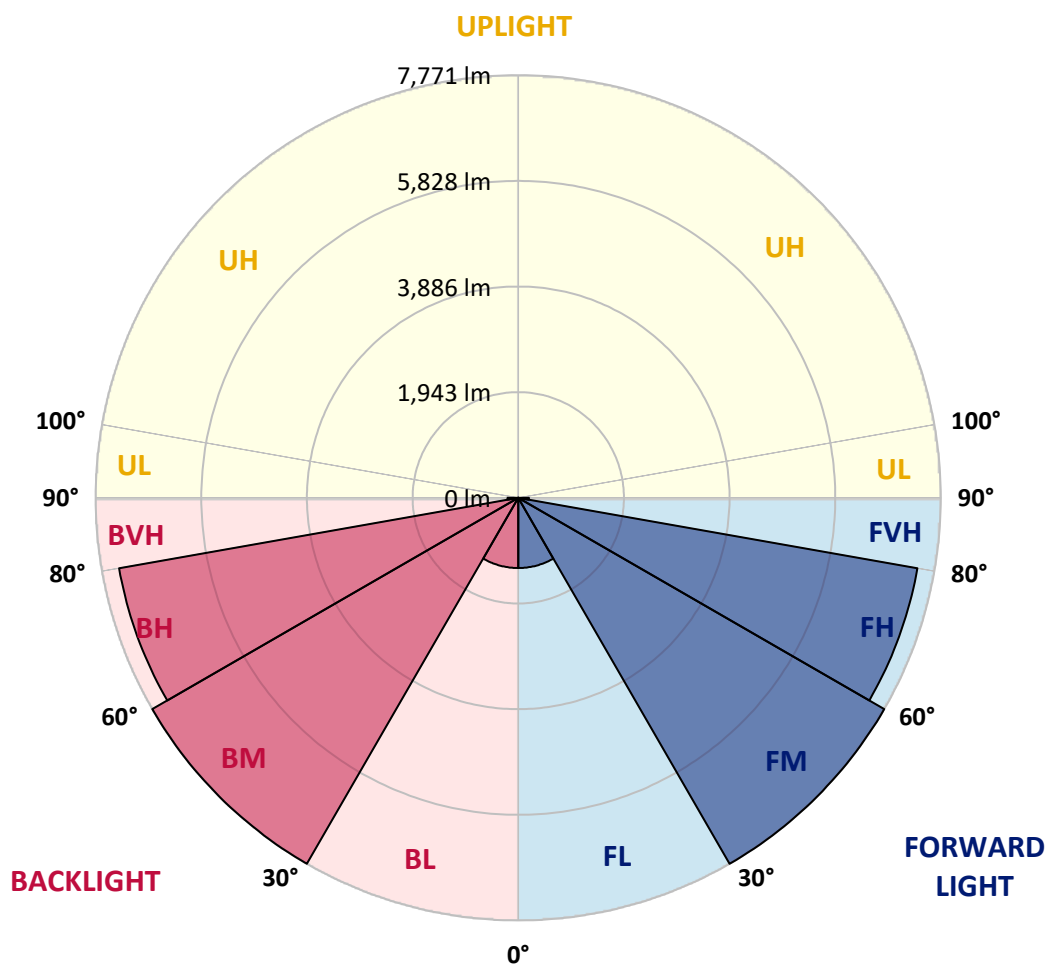
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1290.6	3.9			
FM	(30°-60°)	7771.3	23.3			
FH	(60°-80°)	7453.5	22.3			G3/7500
FVH	(80°-90°)	196.1	0.6			G2/225
BL	(0°-30°)	1290.6	3.9	B3/2500		
BM	(30°-60°)	7771.3	23.3	B4/8500		
BH	(60°-80°)	7453.5	22.3	B5		G3/7500
BVH	(80°-90°)	196.1	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-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9
2.5°	2361.0	2361.0	2354.8	2354.8	2342.3	2336.1	2329.9	2329.9	2323.7	2323.7	2317.5
5°	2373.4	2373.4	2373.4	2367.2	2361.0	2354.8	2342.3	2329.9	2323.7	2317.5	2311.3
7.5°	2379.6	2379.6	2373.4	2373.4	2367.2	2361.0	2342.3	2323.7	2317.5	2311.3	2311.3
10°	2429.3	2423.1	2416.9	2404.5	2404.5	2404.5	2379.6	2361.0	2354.8	2354.8	2354.8
12.5°	2547.4	2541.1	2528.7	2510.1	2510.1	2516.3	2479.0	2454.2	2454.2	2447.9	2447.9
15°	2721.3	2715.1	2702.7	2671.6	2665.4	2677.8	2621.9	2597.1	2597.1	2597.1	2590.8
17.5°	2913.9	2901.5	2882.9	2858.0	2858.0	2858.0	2802.1	2771.0	2752.4	2752.4	2746.2
20°	3075.5	3069.3	3069.3	3063.0	3081.7	3081.7	3007.1	2957.4	2913.9	2889.1	2882.9
22.5°	3218.4	3212.2	3224.6	3249.4	3286.7	3299.1	3212.2	3137.6	3069.3	3019.5	3007.1
25°	3411.0	3404.8	3398.5	3435.8	3498.0	3516.6	3423.4	3330.2	3261.9	3237.0	3224.6
27.5°	3616.0	3622.2	3628.4	3665.7	3715.4	3746.5	3653.3	3566.3	3510.4	3473.1	3460.7
30°	3845.9	3858.3	3877.0	3932.9	3970.1	3982.6	3901.8	3839.7	3790.0	3758.9	3740.3
32.5°	4137.9	4162.8	4187.6	4237.3	4255.9	4243.5	4206.2	4162.8	4125.5	4082.0	4075.8
35°	4572.8	4597.7	4591.5	4610.1	4616.3	4603.9	4585.2	4560.4	4541.7	4485.8	4479.6
37.5°	5119.6	5144.4	5107.1	5088.5	5045.0	5051.2	5045.0	5063.6	5069.9	5013.9	5007.7
40°	5672.5	5697.4	5647.7	5598.0	5554.5	5535.8	5566.9	5629.0	5629.0	5591.8	5591.8
42.5°	6262.8	6281.4	6200.6	6138.5	6082.6	6070.2	6088.8	6163.4	6182.0	6175.8	6175.8
45°	6853.0	6840.6	6735.0	6672.8	6623.1	6592.1	6598.3	6654.2	6691.5	6710.1	6710.1
47.5°	7306.6	7287.9	7200.9	7151.2	7120.2	7076.7	7076.7	7107.7	7126.4	7132.6	7132.6
50°	7666.9	7648.3	7561.3	7555.1	7555.1	7536.4	7517.8	7511.6	7499.2	7505.4	7505.4
52.5°	7977.6	7952.7	7890.6	7903.0	7958.9	7971.4	7946.5	7896.8	7847.1	7828.5	7834.7
55°	8313.1	8275.8	8226.1	8263.4	8375.2	8424.9	8387.6	8288.2	8201.2	8145.3	8145.3
57.5°	8580.2	8536.7	8536.7	8642.4	8847.4	8946.8	8866.0	8679.6	8530.5	8468.4	8474.6
60°	8393.8	8356.6	8505.7	8971.7	9356.9	9524.6	9387.9	9058.6	8816.3	8741.8	8754.2
62.5°	8027.3	8002.4	8188.8	8909.5	9816.6	10164.6	9959.5	9487.3	9127.0	9040.0	9040.0
65°	7486.7	7480.5	7741.5	8629.9	9922.3	10779.7	10605.7	9953.3	9487.3	9369.3	9394.2
67.5°	6927.6	6927.6	7163.7	8151.5	9798.0	11040.6	11177.3	10375.8	9661.3	9369.3	9375.5
70°	5939.7	6045.3	6672.8	7710.4	9344.4	10854.2	11413.4	10077.6	8903.3	8387.6	8369.0
72.5°	3914.2	4050.9	5299.7	6940.0	8897.1	10177.0	10301.3	8853.6	7393.5	6790.9	6759.8
75°	2361.0	2479.0	3435.8	5417.8	7822.2	8195.0	7648.3	6940.0	5523.4	5051.2	5051.2
77.5°	695.9	776.6	1584.3	3435.8	5411.6	5386.7	4715.7	4088.2	3268.1	2777.2	2814.5
80°	410.1	422.5	515.7	1565.7	2242.9	2361.0	1820.4	1137.0	1137.0	845.0	820.1
82.5°	316.9	316.9	329.3	391.4	540.5	602.7	459.8	391.4	447.3	379.0	360.4
85°	223.7	223.7	223.7	229.9	236.1	242.3	254.7	260.9	285.8	236.1	223.7
87.5°	68.3	74.6	80.8	93.2	111.8	118.0	124.3	111.8	111.8	105.6	99.4
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)