

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: P841738

Luminaire Tested: **ARCH4-220-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841738
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: ARCH4-220-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32953 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 221.8
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

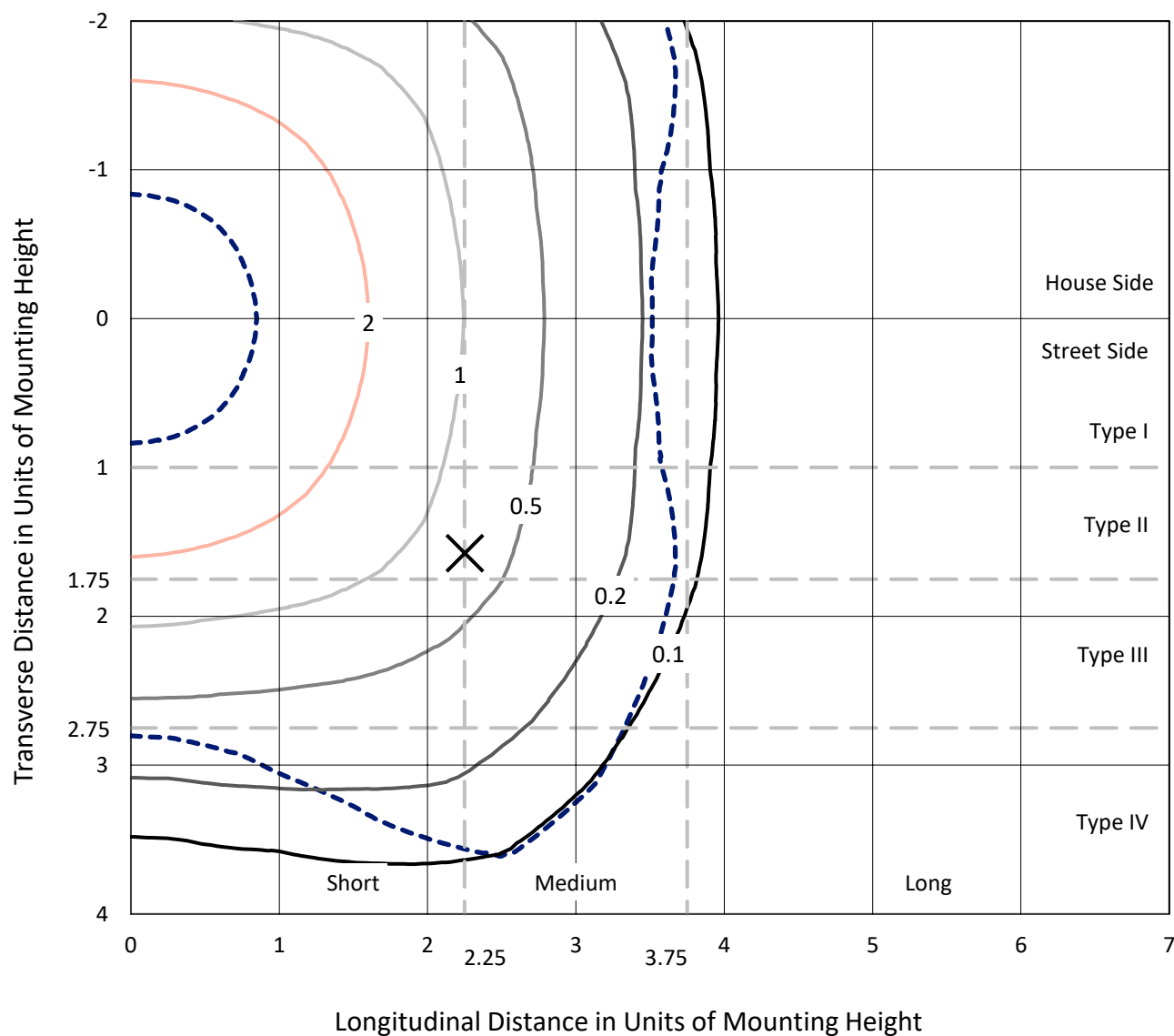


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Iso-Footcandle Lines of Horizontal Illumination

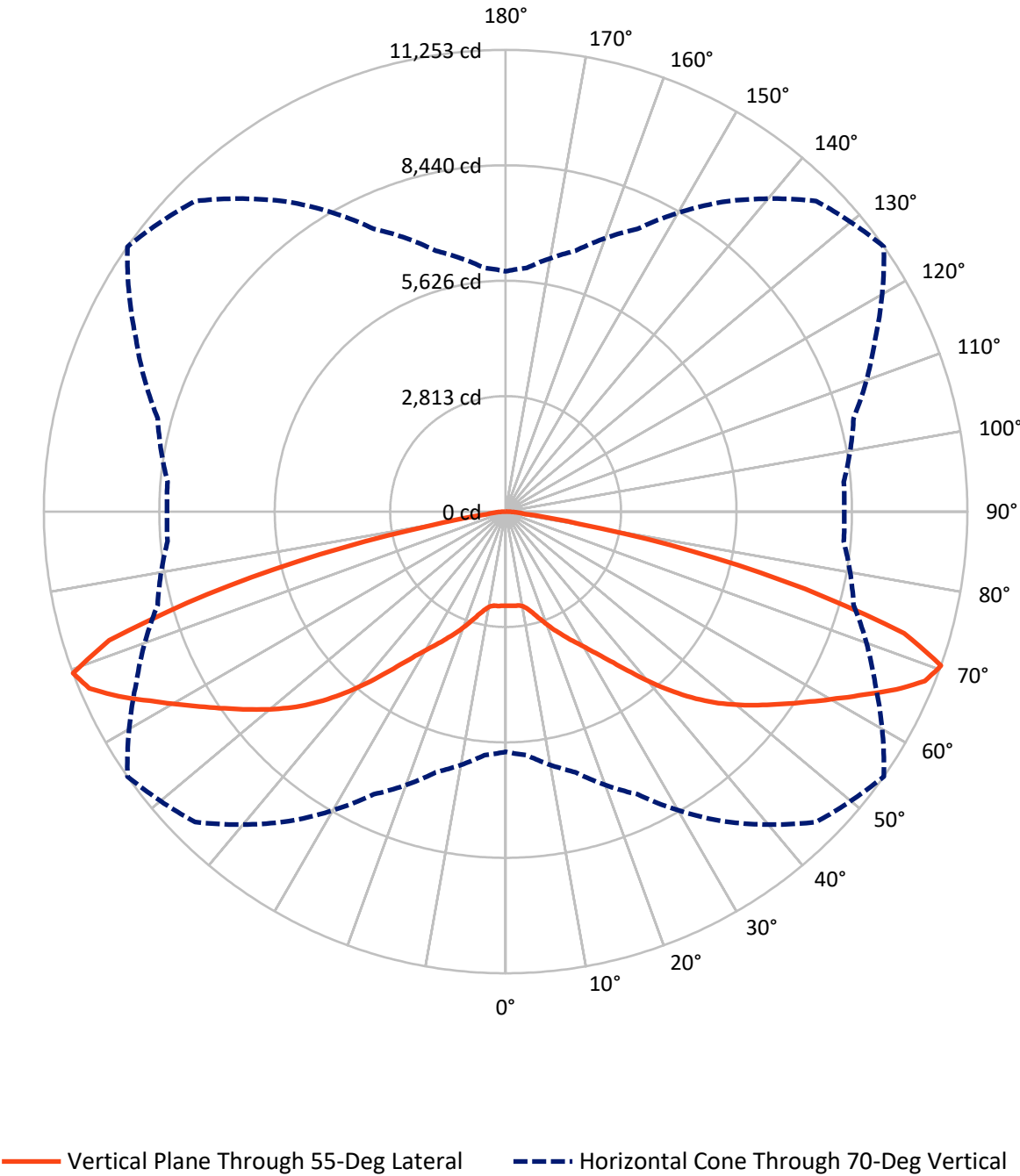
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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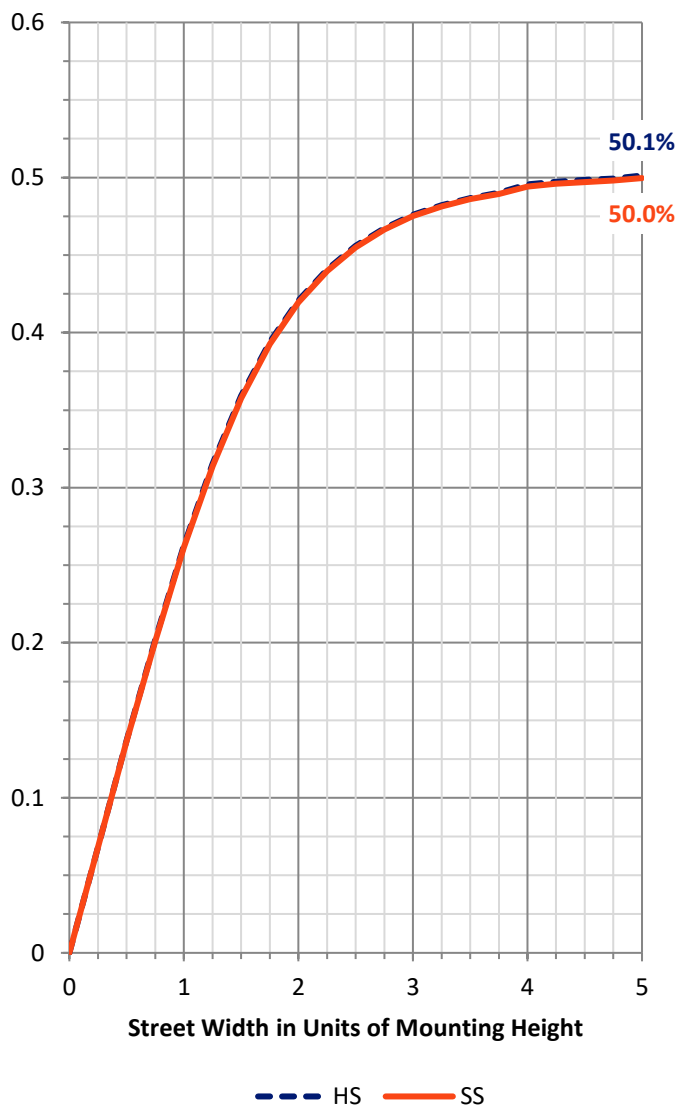
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16476.5	0.0	16476.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16476.5	0.0	16476.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32953.0	0.0	32953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	0.7
10°-20°	754.8	2.3
20°-30°	1568.3	4.8
30°-40°	2896.5	8.8
40°-50°	5088.6	15.4
50°-60°	7338.9	22.3
60°-70°	8982.0	27.3
70°-80°	5715.5	17.3
80°-90°	386.7	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°	32953.0	100.0
0°-180°	32953.0	100.0

Coefficient of Utilization



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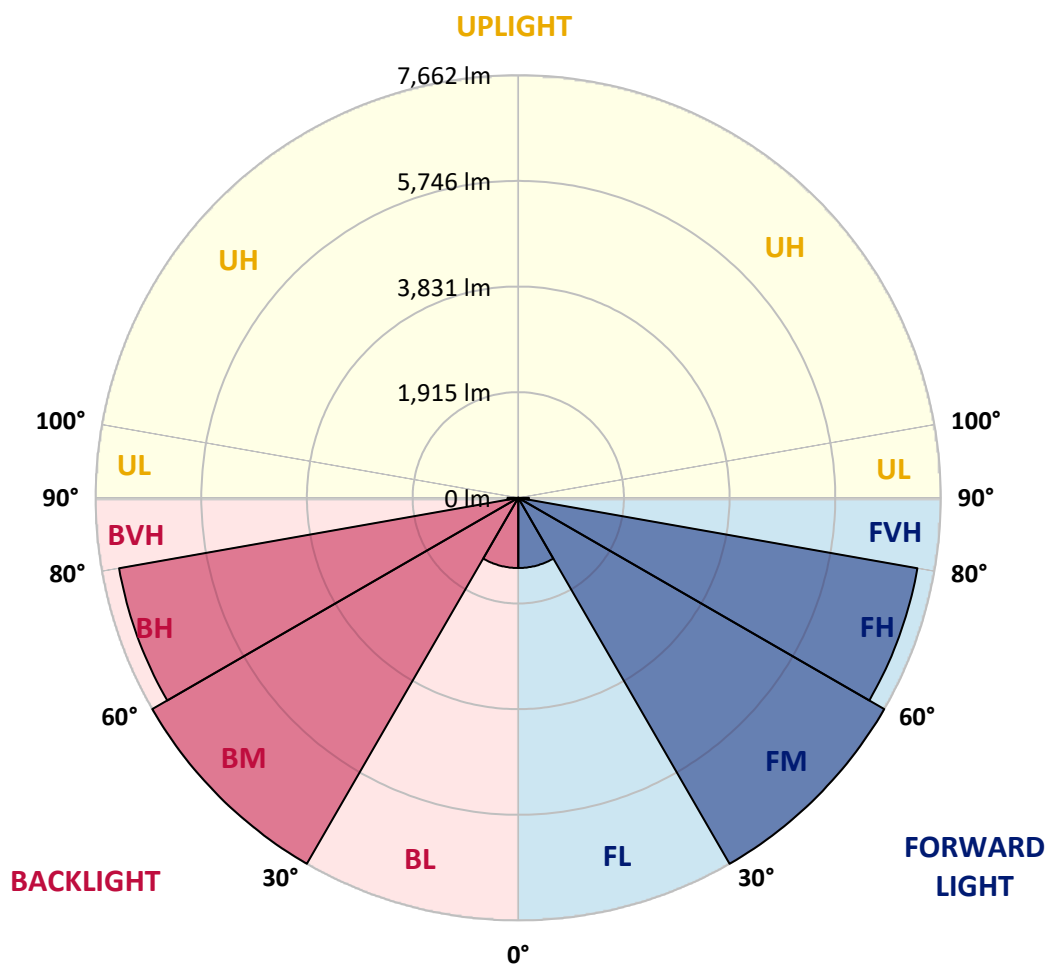
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.4	3.9			
FM	(30°-60°)	7662.0	23.3			
FH	(60°-80°)	7348.7	22.3			G3/7500
FVH	(80°-90°)	193.4	0.6			G2/225
BL	(0°-30°)	1272.4	3.9	B3/2500		
BM	(30°-60°)	7662.0	23.3	B4/8500		
BH	(60°-80°)	7348.7	22.3	B5		G3/7500
BVH	(80°-90°)	193.4	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°	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1
2.5°	2327.8	2327.8	2321.6	2321.6	2309.4	2303.3	2297.1	2297.1	2291.0	2291.0	2284.9
5°	2340.0	2340.0	2340.0	2333.9	2327.8	2321.6	2309.4	2297.1	2291.0	2284.9	2278.8
7.5°	2346.1	2346.1	2340.0	2340.0	2333.9	2327.8	2309.4	2291.0	2284.9	2278.8	2278.8
10°	2395.1	2389.0	2382.9	2370.6	2370.6	2370.6	2346.1	2327.8	2321.6	2321.6	2321.6
12.5°	2511.5	2505.4	2493.2	2474.8	2474.8	2480.9	2444.2	2419.6	2419.6	2413.5	2413.5
15°	2683.1	2676.9	2664.7	2634.0	2627.9	2640.2	2585.0	2560.5	2560.5	2560.5	2554.4
17.5°	2873.0	2860.7	2842.3	2817.8	2817.8	2817.8	2762.7	2732.1	2713.7	2713.7	2707.6
20°	3032.2	3026.1	3026.1	3020.0	3038.3	3038.3	2964.8	2915.8	2873.0	2848.4	2842.3
22.5°	3173.1	3167.0	3179.2	3203.7	3240.5	3252.7	3167.0	3093.5	3026.1	2977.1	2964.8
25°	3363.0	3356.9	3350.8	3387.5	3448.8	3467.1	3375.3	3283.4	3216.0	3191.5	3179.2
27.5°	3565.2	3571.3	3577.4	3614.2	3663.2	3693.8	3601.9	3516.1	3461.0	3424.3	3412.0
30°	3791.8	3804.1	3822.4	3877.6	3914.3	3926.6	3846.9	3785.7	3736.7	3706.0	3687.7
32.5°	4079.7	4104.2	4128.7	4177.7	4196.1	4183.8	4147.1	4104.2	4067.5	4024.6	4018.5
35°	4508.5	4533.0	4526.9	4545.3	4551.4	4539.1	4520.8	4496.3	4477.9	4422.8	4416.6
37.5°	5047.6	5072.1	5035.3	5016.9	4974.1	4980.2	4974.1	4992.4	4998.6	4943.4	4937.3
40°	5592.8	5617.3	5568.3	5519.2	5476.4	5458.0	5488.6	5549.9	5549.9	5513.1	5513.1
42.5°	6174.7	6193.1	6113.4	6052.2	5997.1	5984.8	6003.2	6076.7	6095.1	6088.9	6088.9
45°	6756.6	6744.4	6640.3	6579.0	6530.0	6499.4	6505.5	6560.6	6597.4	6615.7	6615.7
47.5°	7203.8	7185.4	7099.7	7050.7	7020.0	6977.2	6977.2	7007.8	7026.2	7032.3	7032.3
50°	7559.1	7540.7	7455.0	7448.8	7448.8	7430.5	7412.1	7406.0	7393.7	7399.8	7399.8
52.5°	7865.4	7840.9	7779.6	7791.9	7847.0	7859.3	7834.8	7785.8	7736.8	7718.4	7724.5
55°	8196.2	8159.4	8110.4	8147.2	8257.4	8306.4	8269.7	8171.7	8085.9	8030.8	8030.8
57.5°	8459.6	8416.7	8416.7	8520.8	8723.0	8821.0	8741.4	8557.6	8410.6	8349.3	8355.4
60°	8275.8	8239.1	8386.1	8845.5	9225.3	9390.7	9255.9	8931.3	8692.4	8618.9	8631.1
62.5°	7914.4	7889.9	8073.7	8784.2	9678.6	10021.6	9819.5	9353.9	8998.6	8912.9	8912.9
65°	7381.5	7375.3	7632.6	8508.6	9782.7	10628.1	10456.6	9813.4	9353.9	9237.5	9262.0
67.5°	6830.1	6830.1	7062.9	8036.9	9660.2	10885.4	11020.1	10229.9	9525.5	9237.5	9243.7
70°	5856.2	5960.3	6579.0	7602.0	9213.0	10701.6	11252.9	9935.9	8778.1	8269.7	8251.3
72.5°	3859.2	3994.0	5225.2	6842.4	8772.0	10033.9	10156.4	8729.1	7289.6	6695.4	6664.8
75°	2327.8	2444.2	3387.5	5341.6	7712.2	8079.8	7540.7	6842.4	5445.7	4980.2	4980.2
77.5°	686.1	765.7	1562.1	3387.5	5335.5	5311.0	4649.4	4030.7	3222.1	2738.2	2774.9
80°	404.3	416.5	508.4	1543.7	2211.4	2327.8	1794.8	1121.0	1121.0	833.1	808.6
82.5°	312.4	312.4	324.7	385.9	532.9	594.2	453.3	385.9	441.0	373.7	355.3
85°	220.5	220.5	220.5	226.7	232.8	238.9	251.2	257.3	281.8	232.8	220.5
87.5°	67.4	73.5	79.6	91.9	110.3	116.4	122.5	110.3	110.3	104.1	98.0
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)