

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: P841549

Luminaire Tested: **ARCH4-190-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841549
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: ARCH4-190-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30735 lumens
Efficiency: N/A
Efficacy: 161.8 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

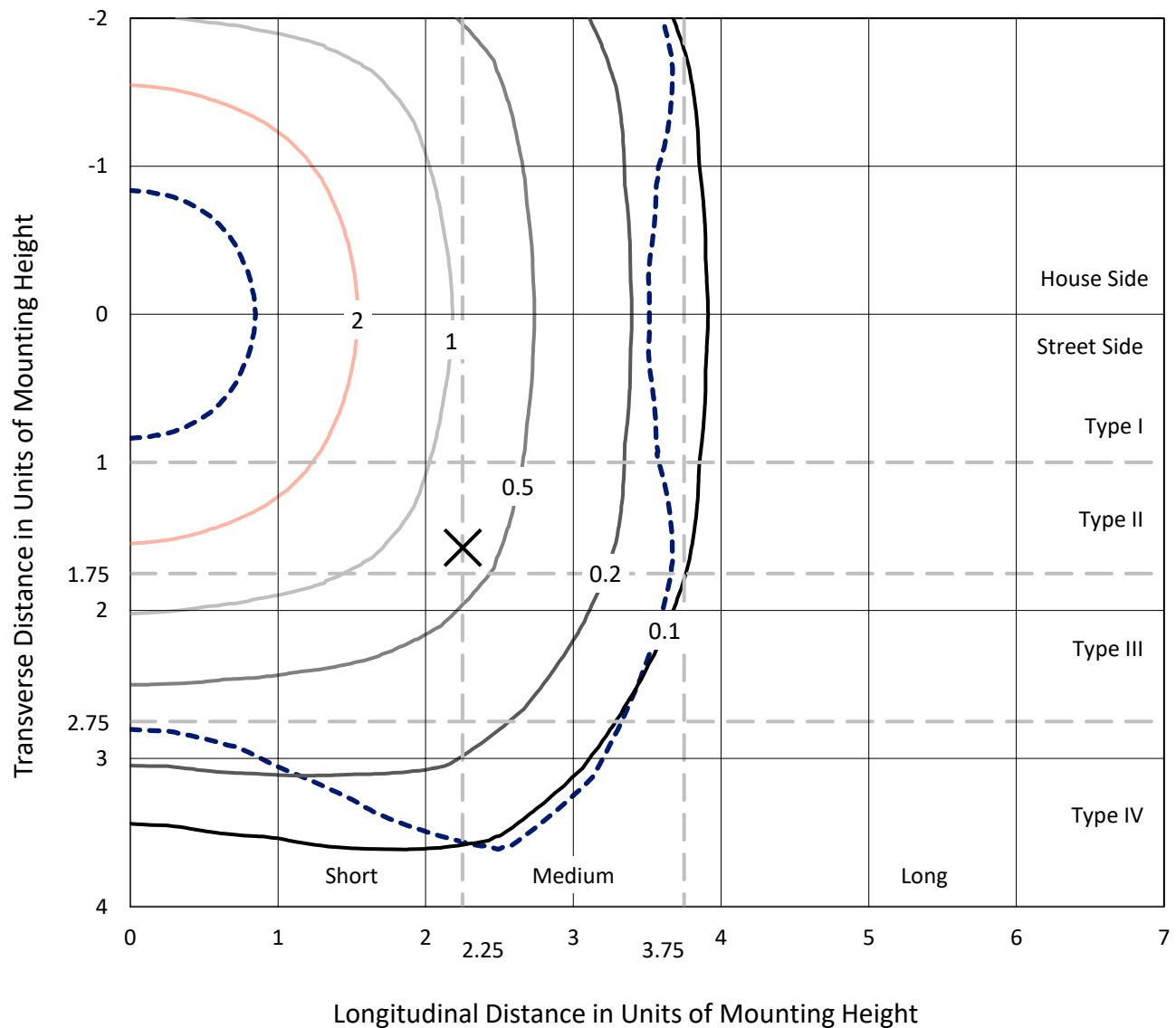
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

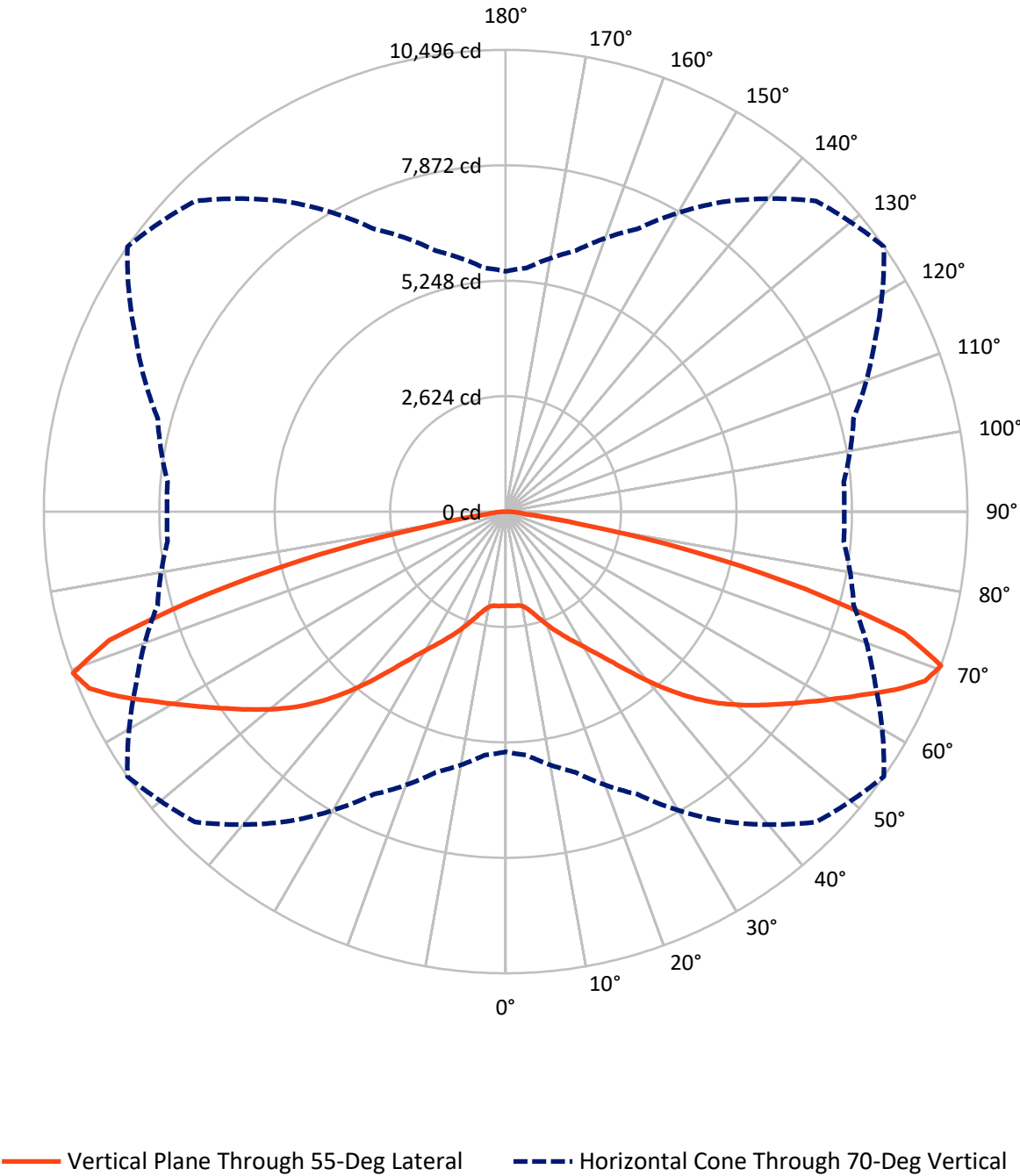
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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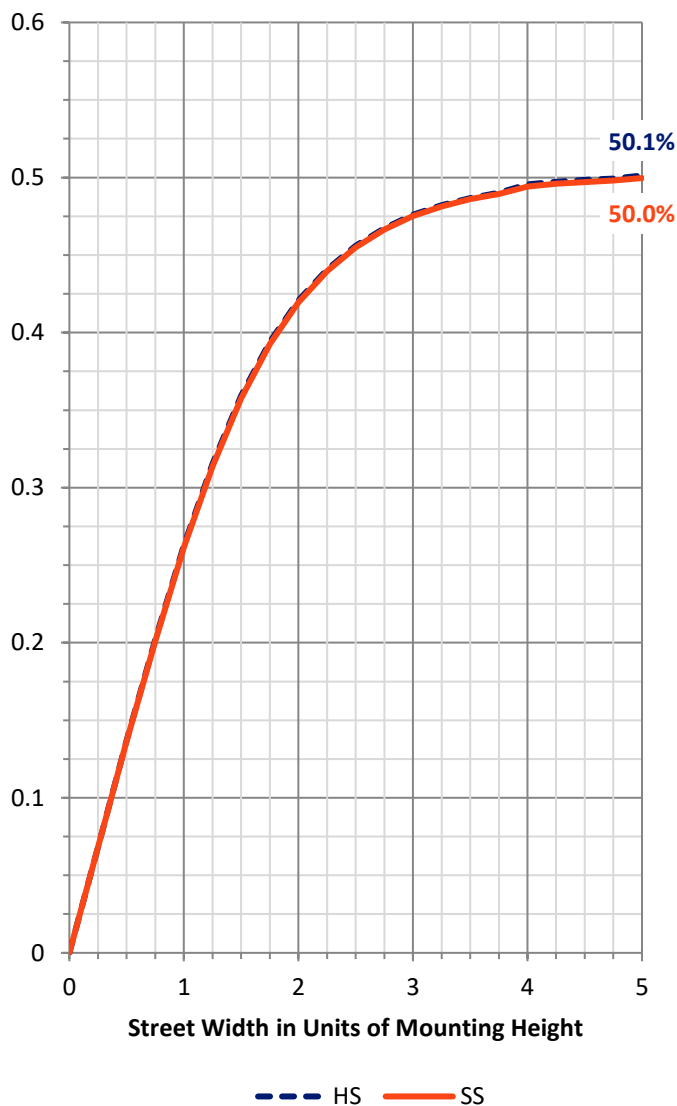
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15367.5	0.0	15367.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15367.5	0.0	15367.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30735.0	0.0	30735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	0.7
10°-20°	704.0	2.3
20°-30°	1462.7	4.8
30°-40°	2701.6	8.8
40°-50°	4746.1	15.4
50°-60°	6844.9	22.3
60°-70°	8377.5	27.3
70°-80°	5330.8	17.3
80°-90°	360.7	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°	30735.0	100.0
0°-180°	30735.0	100.0

Coefficient of Utilization



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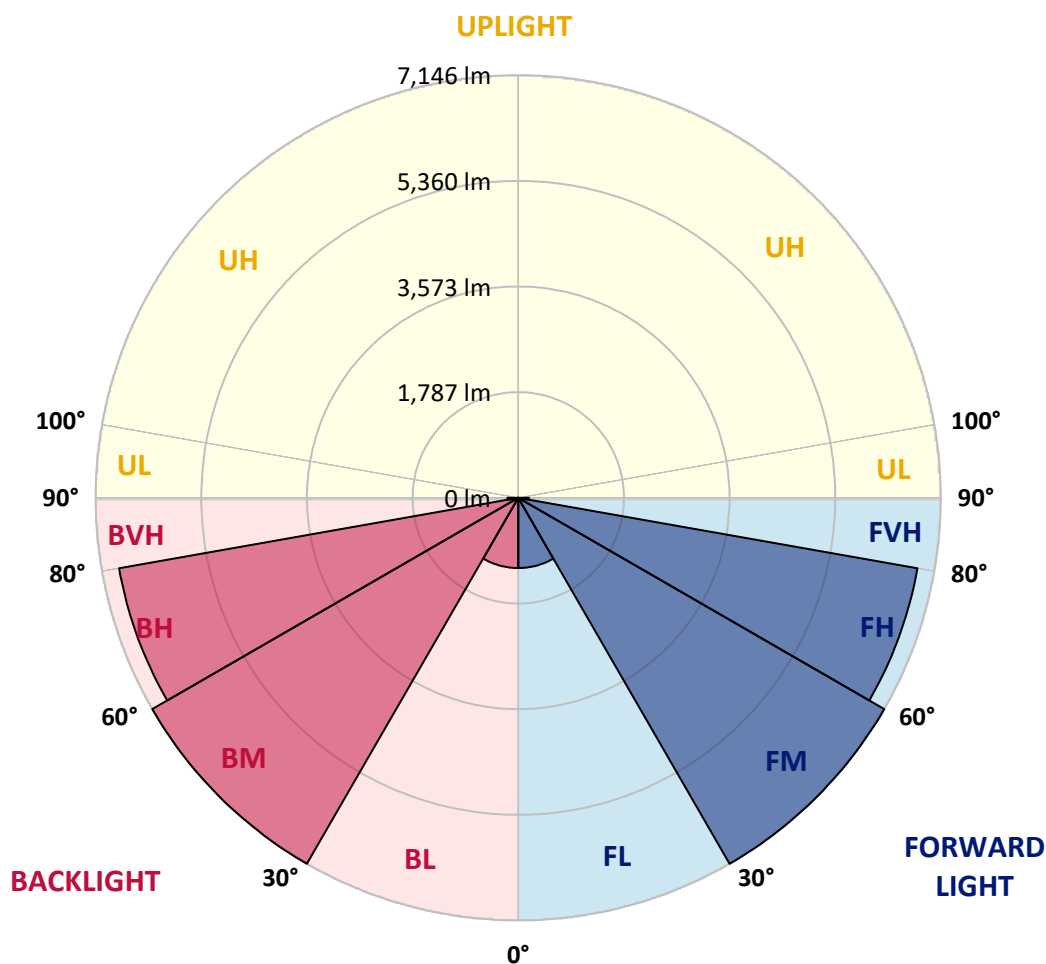
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1186.8	3.9			
FM	(30°-60°)	7146.3	23.3			
FH	(60°-80°)	6854.1	22.3			G3/7500
FVH	(80°-90°)	180.3	0.6			G2/225
BL	(0°-30°)	1186.8	3.9	B3/2500		
BM	(30°-60°)	7146.3	23.3	B4/8500		
BH	(60°-80°)	6854.1	22.3	B5		G3/7500
BVH	(80°-90°)	180.3	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-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5	2142.5
2.5°	2171.1	2171.1	2165.4	2165.4	2153.9	2148.2	2142.5	2142.5	2136.8	2136.8	2131.1
5°	2182.5	2182.5	2182.5	2176.8	2171.1	2165.4	2153.9	2142.5	2136.8	2131.1	2125.4
7.5°	2188.2	2188.2	2182.5	2182.5	2176.8	2171.1	2153.9	2136.8	2131.1	2125.4	2125.4
10°	2233.9	2228.2	2222.5	2211.1	2211.1	2211.1	2188.2	2171.1	2165.4	2165.4	2165.4
12.5°	2342.5	2336.8	2325.3	2308.2	2308.2	2313.9	2279.6	2256.8	2256.8	2251.1	2251.1
15°	2502.5	2496.7	2485.3	2456.8	2451.0	2462.5	2411.0	2388.2	2388.2	2388.2	2382.5
17.5°	2679.6	2668.2	2651.0	2628.2	2628.2	2628.2	2576.7	2548.2	2531.0	2531.0	2525.3
20°	2828.1	2822.4	2822.4	2816.7	2833.8	2833.8	2765.3	2719.6	2679.6	2656.7	2651.0
22.5°	2959.5	2953.8	2965.2	2988.1	3022.4	3033.8	2953.8	2885.3	2822.4	2776.7	2765.3
25°	3136.6	3130.9	3125.2	3159.5	3216.6	3233.8	3148.1	3062.4	2999.5	2976.7	2965.2
27.5°	3325.2	3330.9	3336.6	3370.9	3416.6	3445.2	3359.5	3279.5	3228.1	3193.8	3182.4
30°	3536.6	3548.0	3565.2	3616.6	3650.9	3662.3	3588.0	3530.9	3485.2	3456.6	3439.5
32.5°	3805.1	3828.0	3850.8	3896.5	3913.7	3902.2	3868.0	3828.0	3793.7	3753.7	3748.0
35°	4205.1	4227.9	4222.2	4239.3	4245.0	4233.6	4216.5	4193.6	4176.5	4125.1	4119.4
37.5°	4707.8	4730.7	4696.4	4679.3	4639.3	4645.0	4639.3	4656.4	4662.1	4610.7	4605.0
40°	5216.3	5239.2	5193.5	5147.8	5107.8	5090.6	5119.2	5176.3	5176.3	5142.0	5142.0
42.5°	5759.1	5776.2	5702.0	5644.8	5593.4	5582.0	5599.1	5667.7	5684.8	5679.1	5679.1
45°	6301.9	6290.4	6193.3	6136.2	6090.5	6061.9	6067.6	6119.0	6153.3	6170.5	6170.5
47.5°	6718.9	6701.8	6621.8	6576.1	6547.5	6507.5	6507.5	6536.1	6553.3	6559.0	6559.0
50°	7050.3	7033.2	6953.2	6947.5	6947.5	6930.3	6913.2	6907.5	6896.1	6901.8	6901.8
52.5°	7336.0	7313.1	7256.0	7267.4	7318.8	7330.3	7307.4	7261.7	7216.0	7198.9	7204.6
55°	7644.5	7610.2	7564.5	7598.8	7701.6	7747.4	7713.1	7621.7	7541.7	7490.2	7490.2
57.5°	7890.2	7850.2	7850.2	7947.3	8135.9	8227.3	8153.0	7981.6	7844.5	7787.3	7793.1
60°	7718.8	7684.5	7821.6	8250.1	8604.4	8758.6	8632.9	8330.1	8107.3	8038.7	8050.2
62.5°	7381.7	7358.8	7530.2	8193.0	9027.1	9347.1	9158.6	8724.3	8393.0	8313.0	8313.0
65°	6884.6	6878.9	7118.9	7935.9	9124.3	9912.7	9752.7	9152.8	8724.3	8615.8	8638.6
67.5°	6370.4	6370.4	6587.5	7496.0	9010.0	10152.7	10278.4	9541.4	8884.3	8615.8	8621.5
70°	5462.0	5559.1	6136.2	7090.3	8592.9	9981.3	10495.5	9267.1	8187.3	7713.1	7695.9
72.5°	3599.4	3725.1	4873.5	6381.9	8181.6	9358.5	9472.8	8141.6	6798.9	6244.7	6216.2
75°	2171.1	2279.6	3159.5	4982.1	7193.2	7536.0	7033.2	6381.9	5079.2	4645.0	4645.0
77.5°	639.9	714.2	1456.9	3159.5	4976.4	4953.5	4336.5	3759.4	3005.2	2553.9	2588.2
80°	377.1	388.5	474.2	1439.8	2062.5	2171.1	1674.0	1045.5	1045.5	777.0	754.2
82.5°	291.4	291.4	302.8	359.9	497.1	554.2	422.8	359.9	411.4	348.5	331.4
85°	205.7	205.7	205.7	211.4	217.1	222.8	234.2	240.0	262.8	217.1	205.7
87.5°	62.8	68.6	74.3	85.7	102.8	108.6	114.3	102.8	102.8	97.1	91.4
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)