

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: P841612

Luminaire Tested: **ARCH4-200-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841612
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: ARCH4-200-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32243 lumens
Efficiency: N/A
Efficacy: 158.3 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): 203.7
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

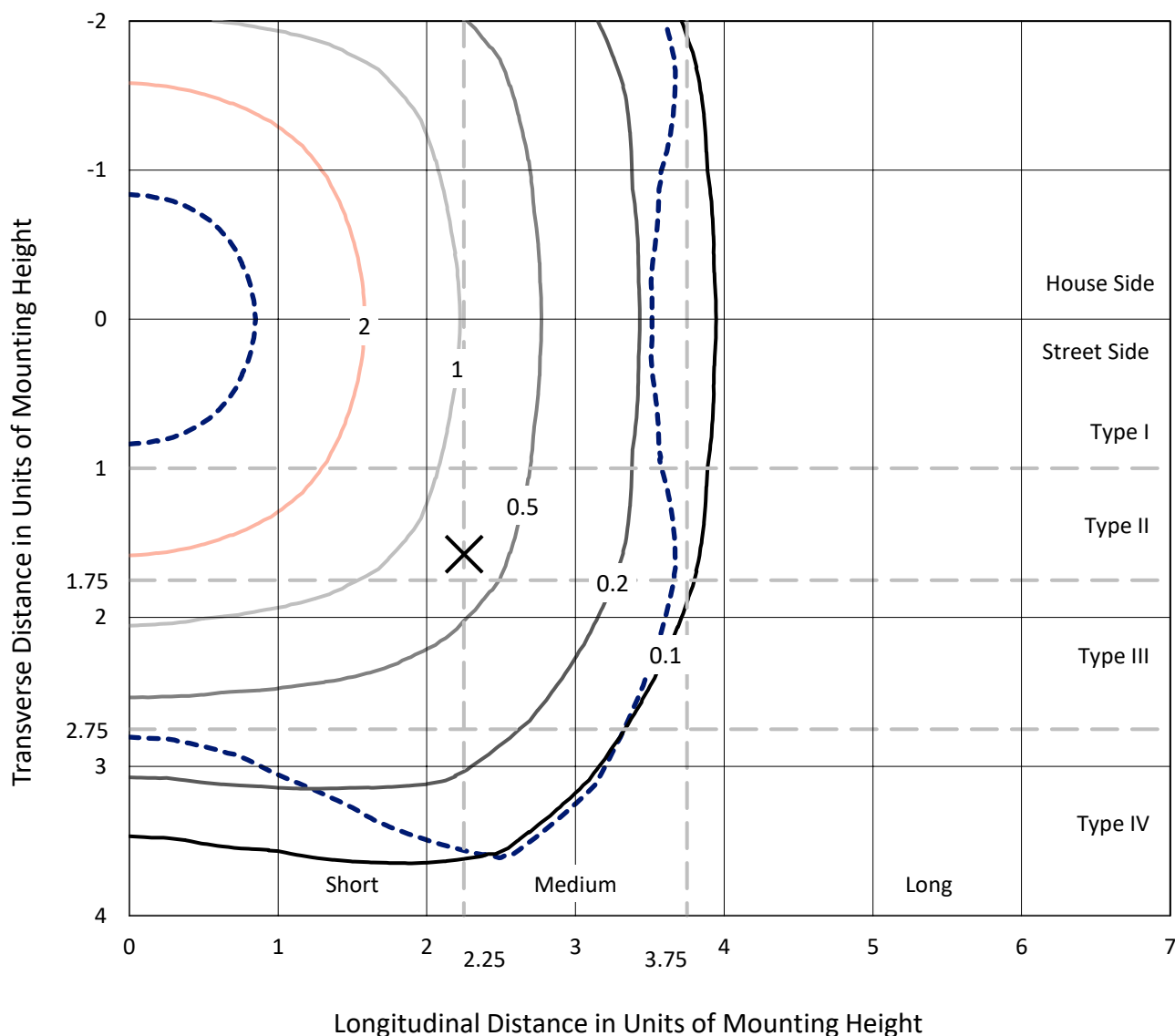


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Iso-Footcandle Lines of Horizontal Illumination

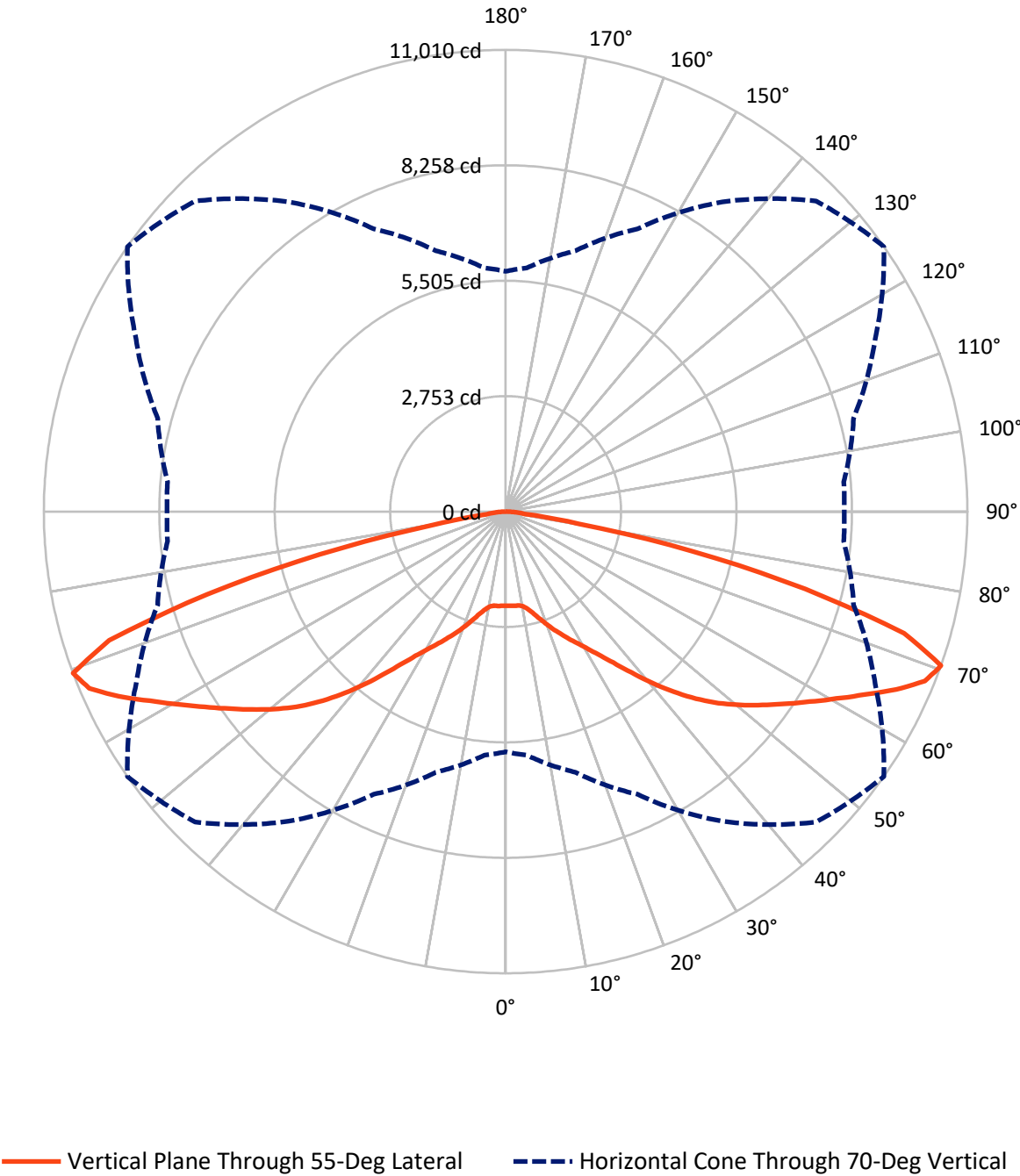
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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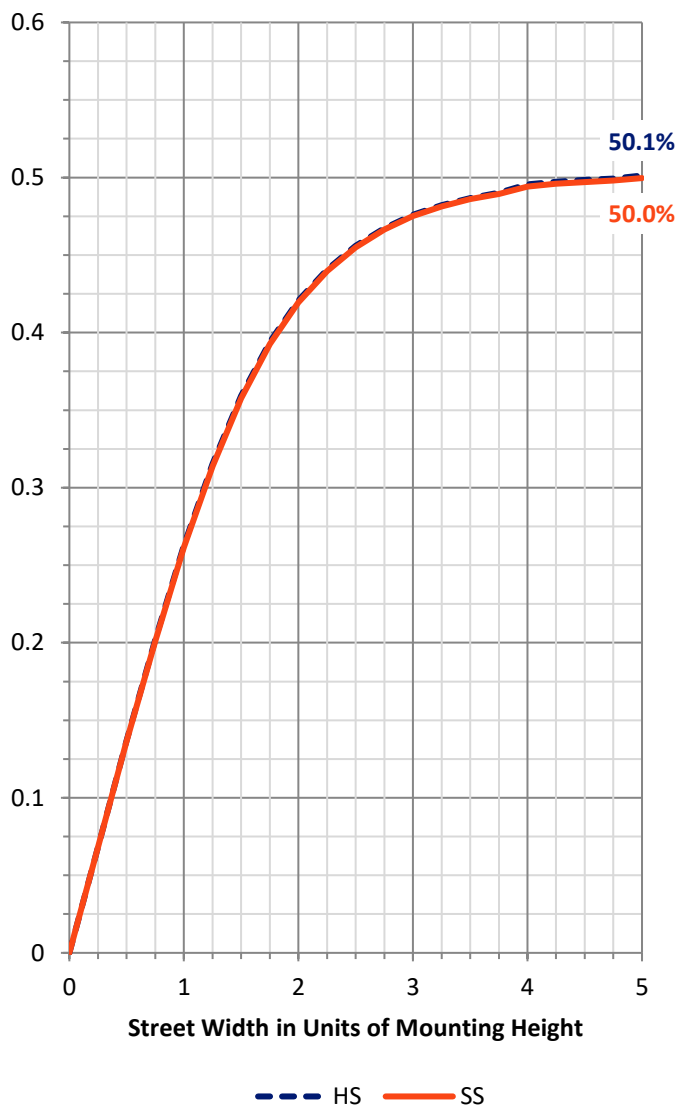
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16121.5	0.0	16121.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16121.5	0.0	16121.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32243.0	0.0	32243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	0.7
10°-20°	738.5	2.3
20°-30°	1534.5	4.8
30°-40°	2834.1	8.8
40°-50°	4978.9	15.4
50°-60°	7180.8	22.3
60°-70°	8788.5	27.3
70°-80°	5592.3	17.3
80°-90°	378.4	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°	32243.0	100.0
0°-180°	32243.0	100.0

Coefficient of Utilization



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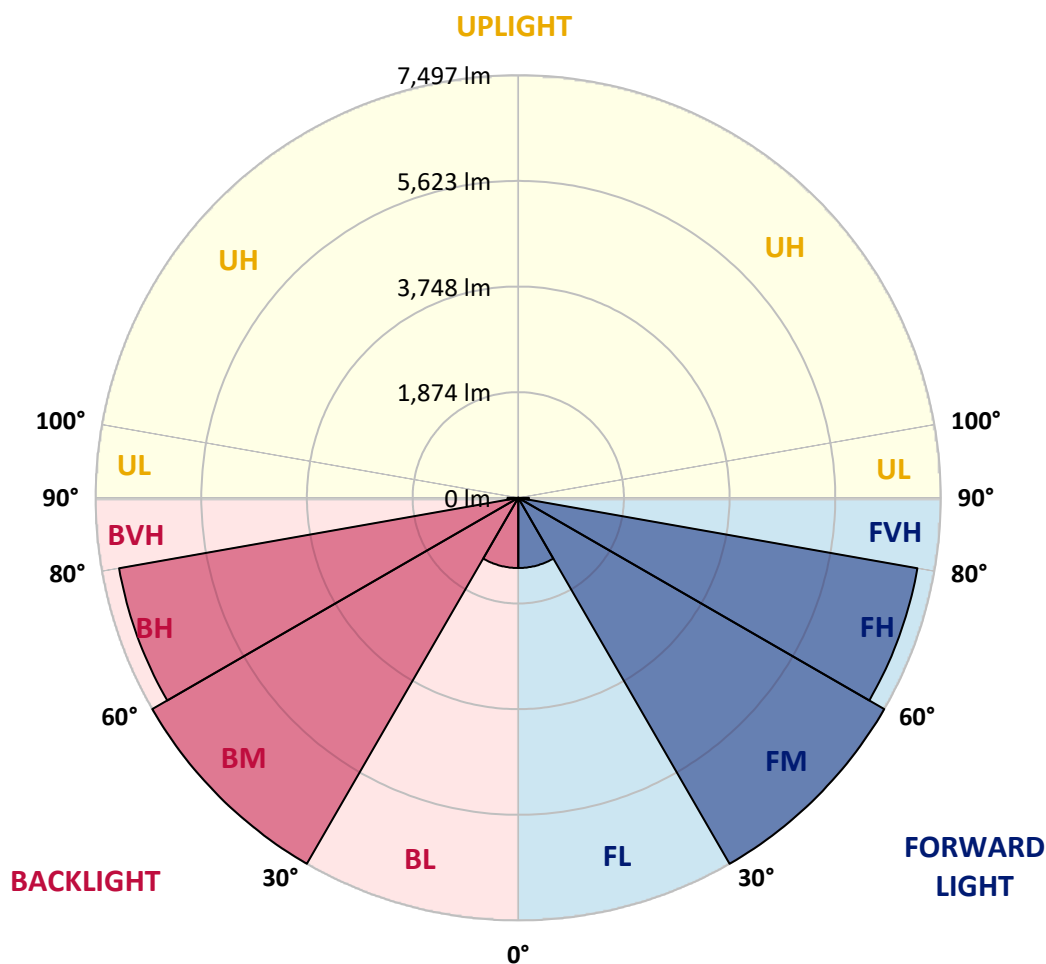
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.0	3.9			
FM	(30°-60°)	7496.9	23.3			
FH	(60°-80°)	7190.4	22.3			G3/7500
FVH	(80°-90°)	189.2	0.6			G2/225
BL	(0°-30°)	1245.0	3.9	B3/2500		
BM	(30°-60°)	7496.9	23.3	B4/8500		
BH	(60°-80°)	7190.4	22.3	B5		G3/7500
BVH	(80°-90°)	189.2	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°	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6	2247.6
2.5°	2277.6	2277.6	2271.6	2271.6	2259.6	2253.6	2247.6	2247.6	2241.6	2241.6	2235.7
5°	2289.6	2289.6	2289.6	2283.6	2277.6	2271.6	2259.6	2247.6	2241.6	2235.7	2229.7
7.5°	2295.6	2295.6	2289.6	2289.6	2283.6	2277.6	2259.6	2241.6	2235.7	2229.7	2229.7
10°	2343.5	2337.5	2331.6	2319.6	2319.6	2319.6	2295.6	2277.6	2271.6	2271.6	2271.6
12.5°	2457.4	2451.4	2439.4	2421.5	2421.5	2427.5	2391.5	2367.5	2367.5	2361.5	2361.5
15°	2625.2	2619.3	2607.3	2577.3	2571.3	2583.3	2529.3	2505.4	2505.4	2505.4	2499.4
17.5°	2811.1	2799.1	2781.1	2757.1	2757.1	2757.1	2703.2	2673.2	2655.2	2655.2	2649.2
20°	2966.9	2960.9	2960.9	2954.9	2972.9	2972.9	2901.0	2853.0	2811.1	2787.1	2781.1
22.5°	3104.7	3098.7	3110.7	3134.7	3170.7	3182.7	3098.7	3026.8	2960.9	2912.9	2901.0
25°	3290.5	3284.6	3278.6	3314.5	3374.5	3392.4	3302.5	3212.6	3146.7	3122.7	3110.7
27.5°	3488.3	3494.3	3500.3	3536.3	3584.2	3614.2	3524.3	3440.4	3386.4	3350.5	3338.5
30°	3710.1	3722.1	3740.1	3794.0	3830.0	3842.0	3764.0	3704.1	3656.2	3626.2	3608.2
32.5°	3991.8	4015.8	4039.8	4087.7	4105.7	4093.7	4057.7	4015.8	3979.8	3937.9	3931.9
35°	4411.4	4435.3	4429.4	4447.3	4453.3	4441.3	4423.4	4399.4	4381.4	4327.5	4321.5
37.5°	4938.8	4962.8	4926.8	4908.8	4866.9	4872.9	4866.9	4884.9	4890.9	4836.9	4830.9
40°	5472.3	5496.2	5448.3	5400.3	5358.4	5340.4	5370.4	5430.3	5430.3	5394.3	5394.3
42.5°	6041.7	6059.6	5981.7	5921.8	5867.8	5855.9	5873.8	5945.8	5963.7	5957.7	5957.7
45°	6611.1	6599.1	6497.2	6437.2	6389.3	6359.3	6365.3	6419.3	6455.2	6473.2	6473.2
47.5°	7048.6	7030.6	6946.7	6898.8	6868.8	6826.8	6826.8	6856.8	6874.8	6880.8	6880.8
50°	7396.2	7378.3	7294.3	7288.4	7288.4	7270.4	7252.4	7246.4	7234.4	7240.4	7240.4
52.5°	7695.9	7671.9	7612.0	7624.0	7677.9	7689.9	7666.0	7618.0	7570.1	7552.1	7558.1
55°	8019.6	7983.6	7935.7	7971.6	8079.5	8127.5	8091.5	7995.6	7911.7	7857.8	7857.8
57.5°	8277.3	8235.4	8235.4	8337.3	8535.0	8630.9	8553.0	8373.2	8229.4	8169.4	8175.4
60°	8097.5	8061.5	8205.4	8654.9	9026.5	9188.4	9056.5	8738.8	8505.1	8433.2	8445.1
62.5°	7743.9	7719.9	7899.7	8595.0	9470.1	9805.7	9607.9	9152.4	8804.8	8720.8	8720.8
65°	7222.4	7216.4	7468.2	8325.3	9572.0	10399.1	10231.3	9601.9	9152.4	9038.5	9062.5
67.5°	6683.0	6683.0	6910.7	7863.7	9452.1	10650.8	10782.7	10009.5	9320.2	9038.5	9044.5
70°	5730.0	5831.9	6437.2	7438.2	9014.5	10471.0	11010.4	9721.8	8589.0	8091.5	8073.5
72.5°	3776.0	3907.9	5112.6	6695.0	8583.0	9817.7	9937.6	8541.0	7132.5	6551.1	6521.2
75°	2277.6	2391.5	3314.5	5226.5	7546.1	7905.7	7378.3	6695.0	5328.4	4872.9	4872.9
77.5°	671.3	749.2	1528.4	3314.5	5220.5	5196.5	4549.2	3943.9	3152.7	2679.2	2715.2
80°	395.6	407.6	497.5	1510.4	2163.7	2277.6	1756.2	1096.8	1096.8	815.1	791.2
82.5°	305.7	305.7	317.7	377.6	521.5	581.4	443.5	377.6	431.5	365.6	347.6
85°	215.8	215.8	215.8	221.8	227.8	233.8	245.7	251.7	275.7	227.8	215.8
87.5°	65.9	71.9	77.9	89.9	107.9	113.9	119.9	107.9	107.9	101.9	95.9
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)