

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: P841234

Luminaire Tested: **ARCH4-150-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841234
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: ARCH4-150-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24245 lumens
Efficiency: N/A
Efficacy: 160.8 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): 150.8
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



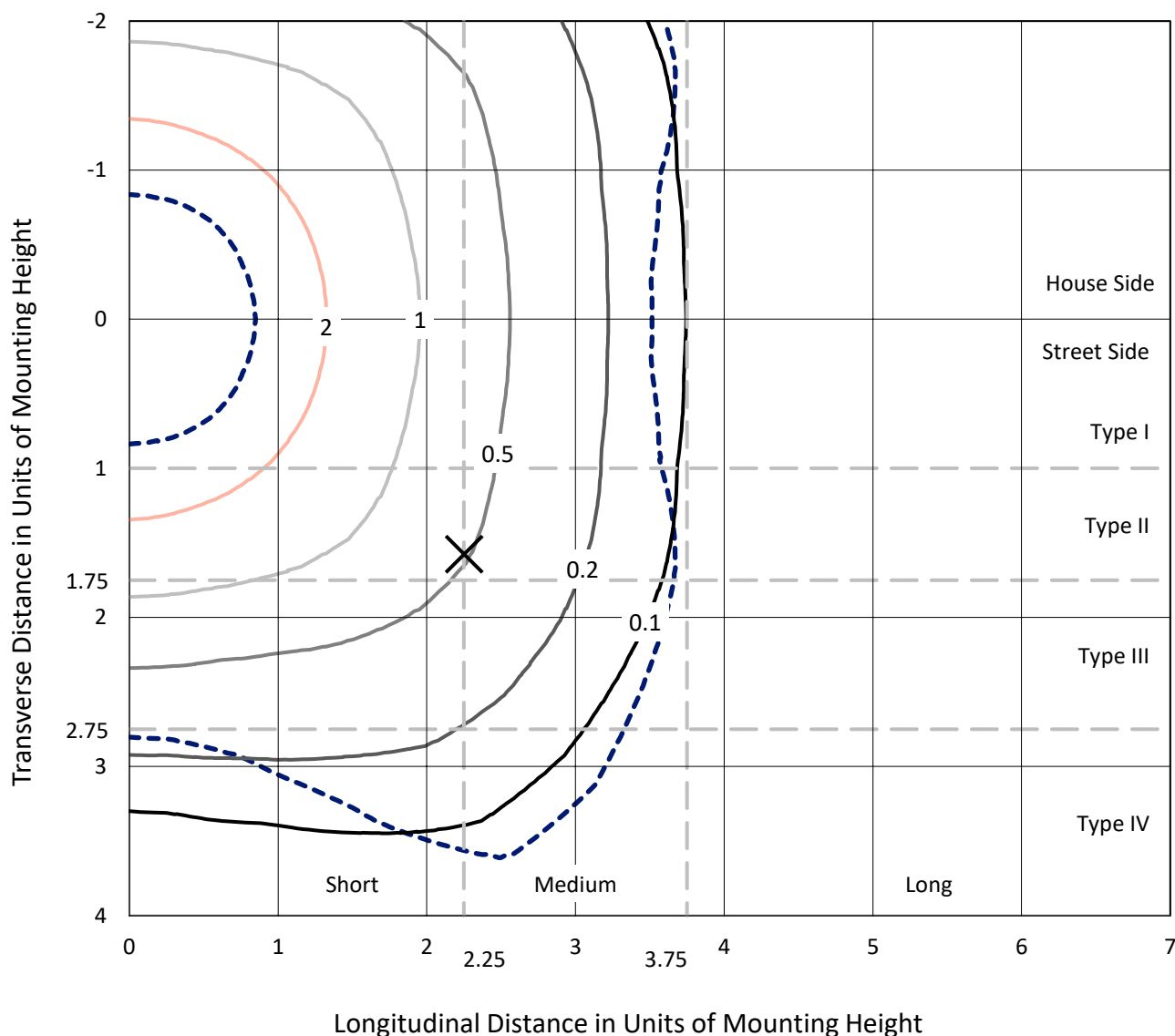
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

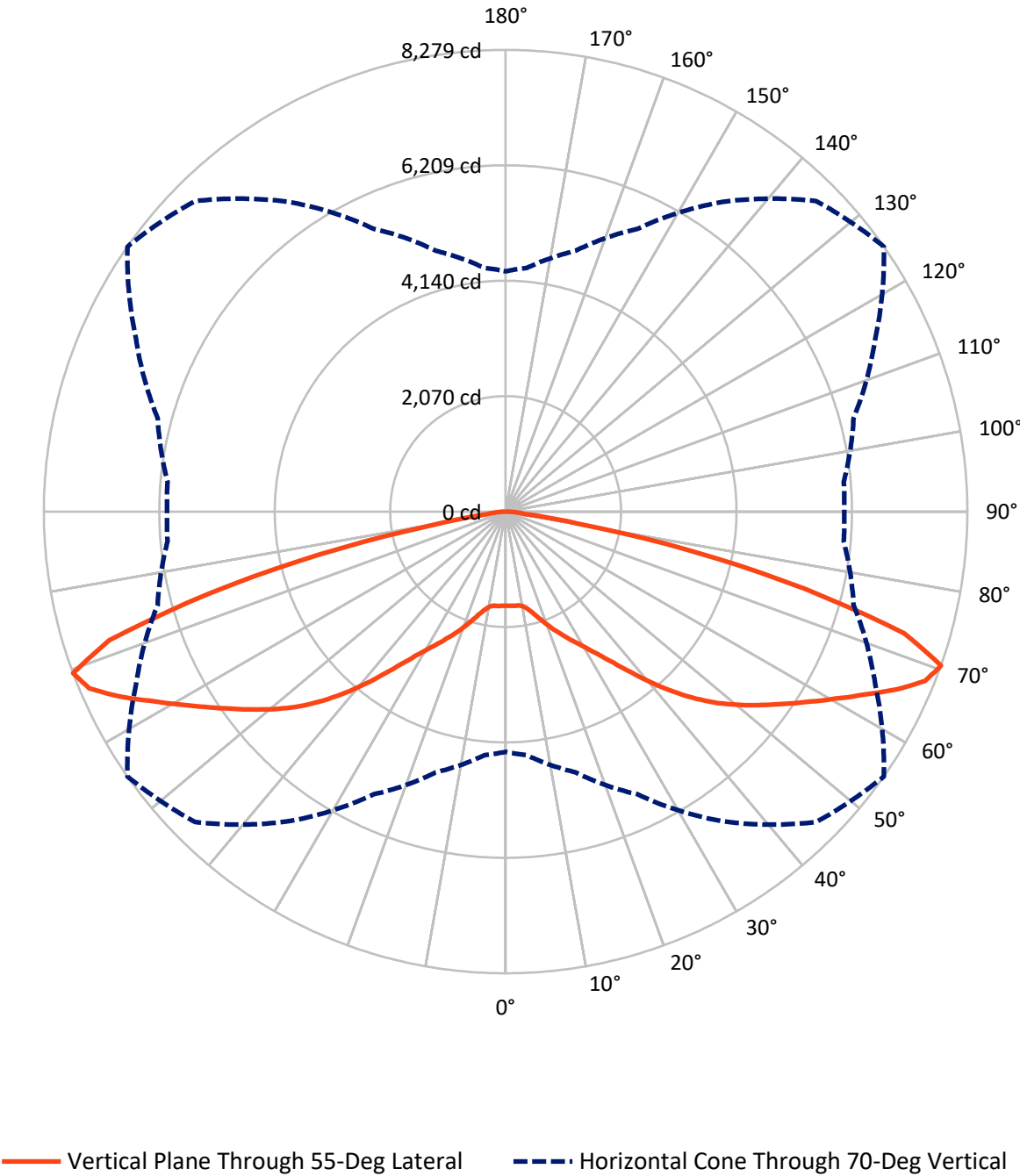
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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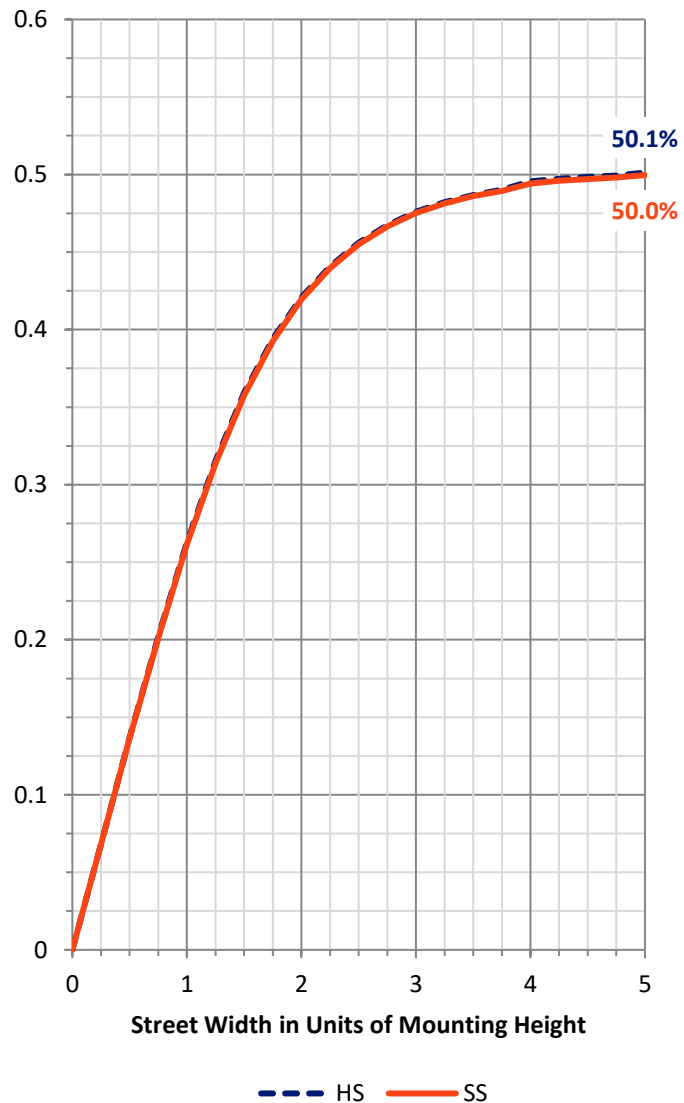
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12122.5	0.0	12122.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12122.5	0.0	12122.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24245.0	0.0	24245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	0.7
10°-20°	555.3	2.3
20°-30°	1153.9	4.8
30°-40°	2131.1	8.8
40°-50°	3743.9	15.4
50°-60°	5399.6	22.3
60°-70°	6608.5	27.3
70°-80°	4205.1	17.3
80°-90°	284.5	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°	24245.0	100.0
0°-180°	24245.0	100.0

Coefficient of Utilization



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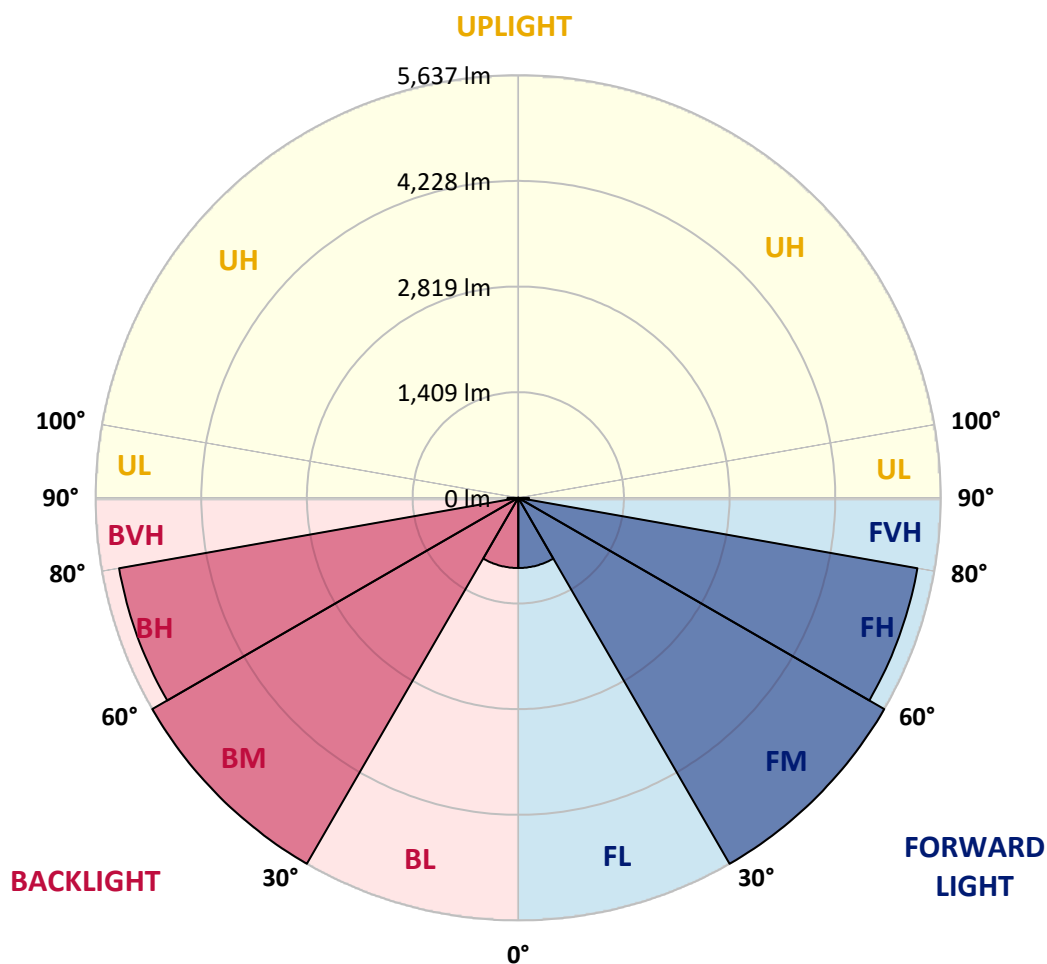
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.2	3.9			
FM	(30°-60°)	5637.3	23.3			
FH	(60°-80°)	5406.8	22.3			G3/7500
FVH	(80°-90°)	142.3	0.6			G2/225
BL	(0°-30°)	936.2	3.9	B2/1000		
BM	(30°-60°)	5637.3	23.3	B4/8500		
BH	(60°-80°)	5406.8	22.3	B5		G3/7500
BVH	(80°-90°)	142.3	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°	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1
2.5°	1712.6	1712.6	1708.1	1708.1	1699.1	1694.6	1690.1	1690.1	1685.6	1685.6	1681.1
5°	1721.7	1721.7	1721.7	1717.1	1712.6	1708.1	1699.1	1690.1	1685.6	1681.1	1676.6
7.5°	1726.2	1726.2	1721.7	1721.7	1717.1	1712.6	1699.1	1685.6	1681.1	1676.6	1676.6
10°	1762.2	1757.7	1753.2	1744.2	1744.2	1744.2	1726.2	1712.6	1708.1	1708.1	1708.1
12.5°	1847.8	1843.3	1834.3	1820.8	1820.8	1825.3	1798.3	1780.2	1780.2	1775.7	1775.7
15°	1974.0	1969.5	1960.5	1938.0	1933.5	1942.5	1901.9	1883.9	1883.9	1883.9	1879.4
17.5°	2113.8	2104.7	2091.2	2073.2	2073.2	2073.2	2032.6	2010.1	1996.6	1996.6	1992.1
20°	2230.9	2226.4	2226.4	2221.9	2235.4	2235.4	2181.4	2145.3	2113.8	2095.7	2091.2
22.5°	2334.6	2330.1	2339.1	2357.1	2384.2	2393.2	2330.1	2276.0	2226.4	2190.4	2181.4
25°	2474.3	2469.8	2465.3	2492.3	2537.4	2550.9	2483.3	2415.7	2366.1	2348.1	2339.1
27.5°	2623.0	2627.6	2632.1	2659.1	2695.2	2717.7	2650.1	2587.0	2546.4	2519.4	2510.4
30°	2789.8	2798.8	2812.3	2852.9	2879.9	2889.0	2830.4	2785.3	2749.2	2726.7	2713.2
32.5°	3001.6	3019.7	3037.7	3073.7	3087.3	3078.2	3051.2	3019.7	2992.6	2961.1	2956.6
35°	3317.1	3335.1	3330.6	3344.2	3348.7	3339.6	3326.1	3308.1	3294.6	3254.0	3249.5
37.5°	3713.7	3731.8	3704.7	3691.2	3659.6	3664.1	3659.6	3673.2	3677.7	3637.1	3632.6
40°	4114.8	4132.9	4096.8	4060.8	4029.2	4015.7	4038.2	4083.3	4083.3	4056.3	4056.3
42.5°	4543.0	4556.5	4497.9	4452.9	4412.3	4403.3	4416.8	4470.9	4484.4	4479.9	4479.9
45°	4971.2	4962.1	4885.5	4840.5	4804.4	4781.9	4786.4	4826.9	4854.0	4867.5	4867.5
47.5°	5300.2	5286.6	5223.6	5187.5	5165.0	5133.4	5133.4	5155.9	5169.5	5174.0	5174.0
50°	5561.6	5548.1	5485.0	5480.4	5480.4	5466.9	5453.4	5448.9	5439.9	5444.4	5444.4
52.5°	5786.9	5768.9	5723.8	5732.8	5773.4	5782.4	5764.4	5728.3	5692.3	5678.8	5683.3
55°	6030.3	6003.3	5967.2	5994.2	6075.4	6111.4	6084.4	6012.3	5949.2	5908.6	5908.6
57.5°	6224.1	6192.5	6192.5	6269.2	6417.9	6490.0	6431.4	6296.2	6188.0	6143.0	6147.5
60°	6088.9	6061.8	6170.0	6508.0	6787.5	6909.2	6810.0	6571.1	6395.4	6341.3	6350.3
62.5°	5823.0	5804.9	5940.2	6463.0	7121.0	7373.4	7224.6	6882.1	6620.7	6557.6	6557.6
65°	5430.9	5426.4	5615.7	6260.1	7197.6	7819.6	7693.4	7220.1	6882.1	6796.5	6814.5
67.5°	5025.2	5025.2	5196.5	5913.1	7107.5	8008.8	8108.0	7526.6	7008.3	6796.5	6801.0
70°	4308.6	4385.3	4840.5	5593.1	6778.4	7873.6	8279.3	7310.3	6458.5	6084.4	6070.9
72.5°	2839.4	2938.5	3844.4	5034.3	6453.9	7382.4	7472.5	6422.4	5363.3	4926.1	4903.6
75°	1712.6	1798.3	2492.3	3930.1	5674.2	5944.7	5548.1	5034.3	4006.7	3664.1	3664.1
77.5°	504.8	563.4	1149.3	2492.3	3925.6	3907.5	3420.8	2965.6	2370.7	2014.6	2041.6
80°	297.5	306.5	374.1	1135.8	1627.0	1712.6	1320.5	824.8	824.8	612.9	594.9
82.5°	229.9	229.9	238.9	283.9	392.1	437.2	333.5	283.9	324.5	274.9	261.4
85°	162.3	162.3	162.3	166.8	171.3	175.8	184.8	189.3	207.3	171.3	162.3
87.5°	49.6	54.1	58.6	67.6	81.1	85.6	90.1	81.1	81.1	76.6	72.1
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)