

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: P836485

Luminaire Tested: **ARCH3-190-740-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25476 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 189.4
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

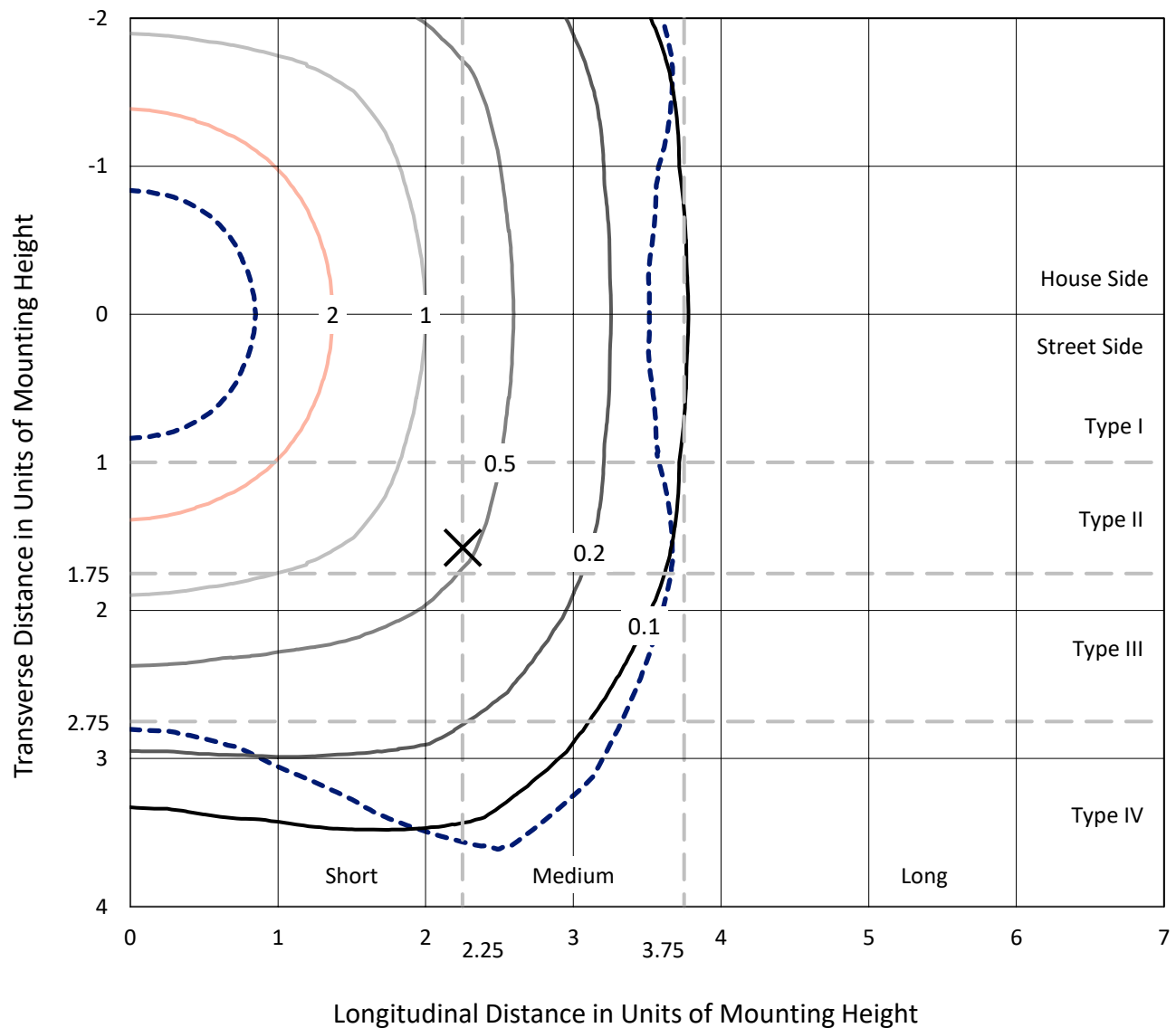


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Iso-Footcandle Lines of Horizontal Illumination

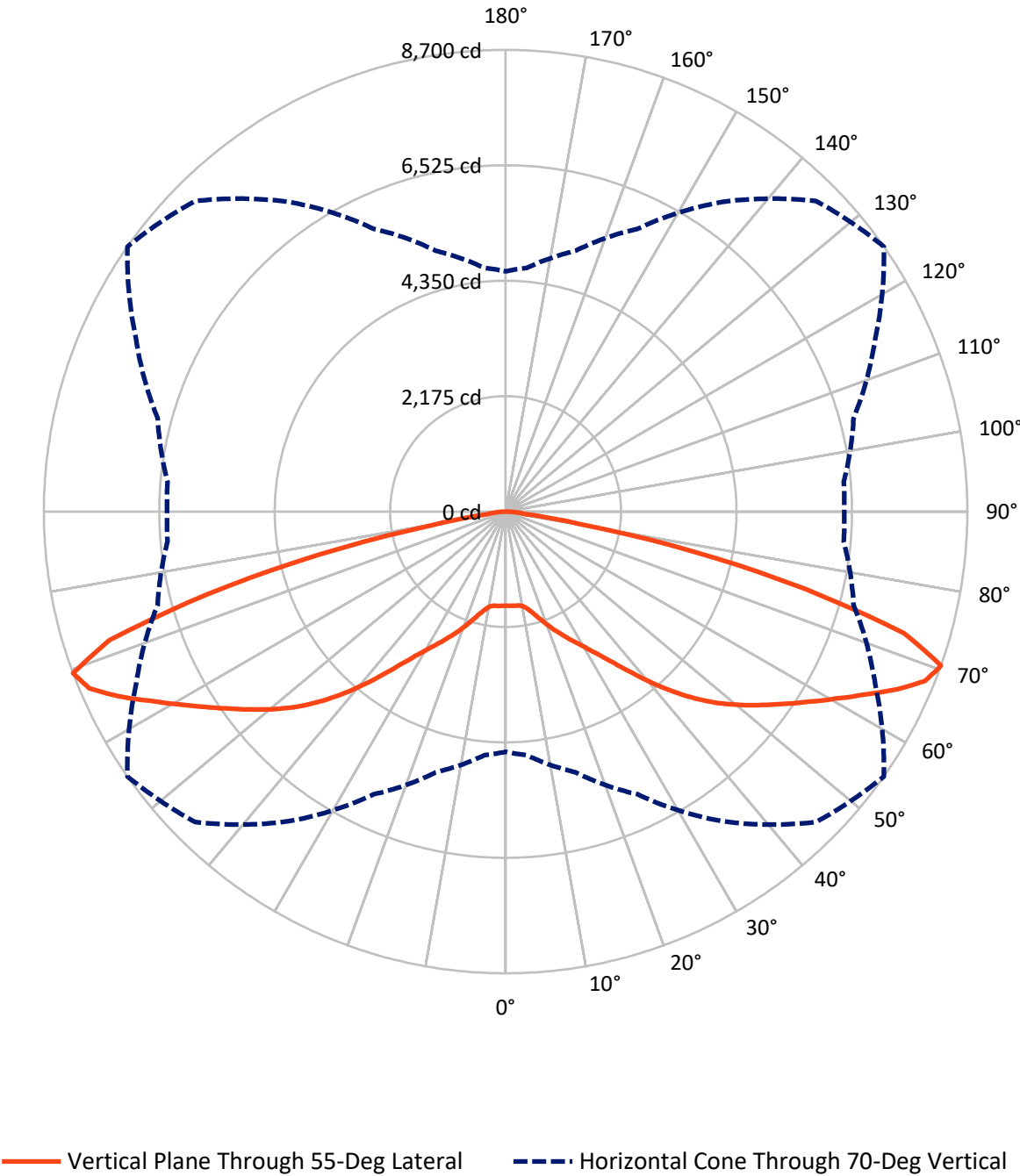
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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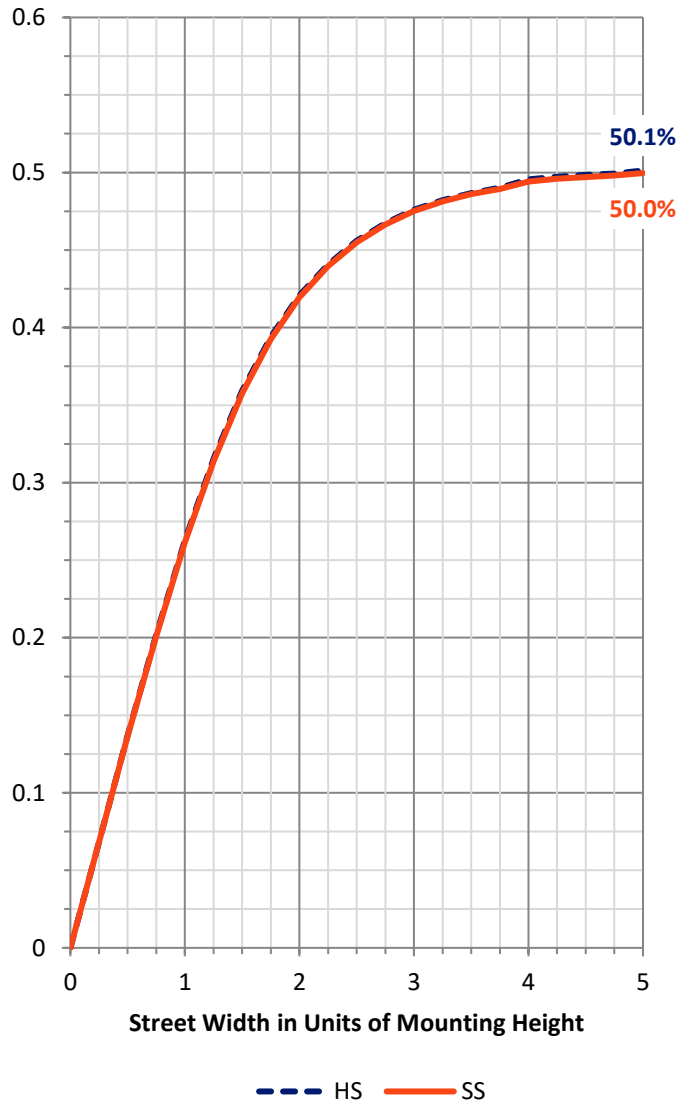
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12738.0	0.0	12738.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12738.0	0.0	12738.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25476.0	0.0	25476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	0.7
10°-20°	583.5	2.3
20°-30°	1212.4	4.8
30°-40°	2239.3	8.8
40°-50°	3934.0	15.4
50°-60°	5673.7	22.3
60°-70°	6944.0	27.3
70°-80°	4418.6	17.3
80°-90°	299.0	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°	25476.0	100.0
0°-180°	25476.0	100.0

Coefficient of Utilization



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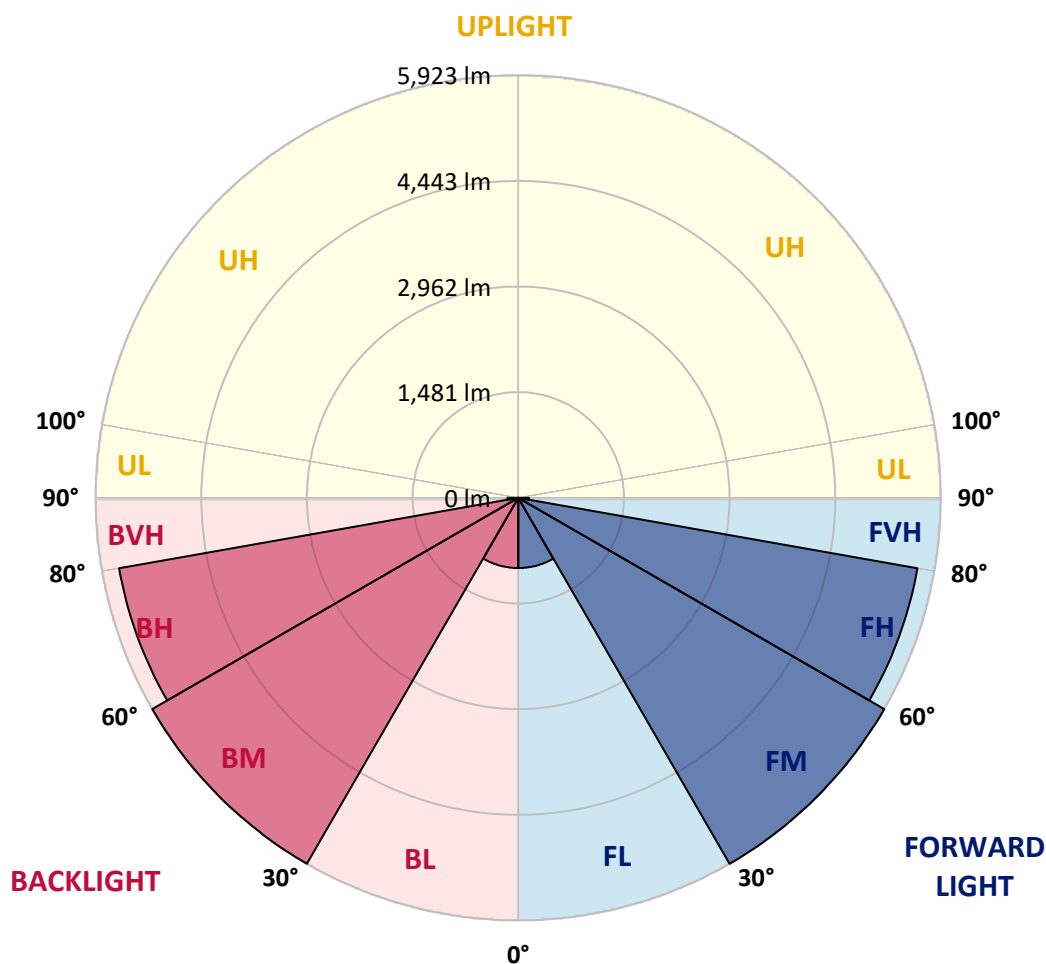
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	983.7	3.9			
FM	(30°-60°)	5923.5	23.3			
FH	(60°-80°)	5681.3	22.3			G3/7500
FVH	(80°-90°)	149.5	0.6			G2/225
BL	(0°-30°)	983.7	3.9	B2/1000		
BM	(30°-60°)	5923.5	23.3	B4/8500		
BH	(60°-80°)	5681.3	22.3	B5		G3/7500
BVH	(80°-90°)	149.5	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°	1775.9	1775.9	1775.9	1775.9	1775.9	1775.9	1775.9	1775.9	1775.9	1775.9	1775.9
2.5°	1799.6	1799.6	1794.9	1794.9	1785.4	1780.7	1775.9	1775.9	1771.2	1771.2	1766.4
5°	1809.1	1809.1	1809.1	1804.3	1799.6	1794.9	1785.4	1775.9	1771.2	1766.4	1761.7
7.5°	1813.8	1813.8	1809.1	1809.1	1804.3	1799.6	1785.4	1771.2	1766.4	1761.7	1761.7
10°	1851.7	1847.0	1842.2	1832.7	1832.7	1832.7	1813.8	1799.6	1794.9	1794.9	1794.9
12.5°	1941.7	1936.9	1927.5	1913.3	1913.3	1918.0	1889.6	1870.6	1870.6	1865.9	1865.9
15°	2074.3	2069.5	2060.1	2036.4	2031.6	2041.1	1998.5	1979.6	1979.6	1979.6	1974.8
17.5°	2221.1	2211.6	2197.4	2178.5	2178.5	2178.5	2135.8	2112.2	2098.0	2098.0	2093.2
20°	2344.2	2339.5	2339.5	2334.7	2348.9	2348.9	2292.1	2254.2	2221.1	2202.1	2197.4
22.5°	2453.1	2448.4	2457.9	2476.8	2505.2	2514.7	2448.4	2391.6	2339.5	2301.6	2292.1
25°	2599.9	2595.2	2590.5	2618.9	2666.2	2680.5	2609.4	2538.4	2486.3	2467.3	2457.9
27.5°	2756.2	2761.0	2765.7	2794.1	2832.0	2855.7	2784.6	2718.3	2675.7	2647.3	2637.8
30°	2931.4	2940.9	2955.1	2997.7	3026.2	3035.6	2974.1	2926.7	2888.8	2865.1	2850.9
32.5°	3154.0	3173.0	3191.9	3229.8	3244.0	3234.5	3206.1	3173.0	3144.6	3111.4	3106.7
35°	3485.5	3504.5	3499.7	3513.9	3518.7	3509.2	3495.0	3476.1	3461.9	3419.2	3414.5
37.5°	3902.3	3921.2	3892.8	3878.6	3845.5	3850.2	3845.5	3859.7	3864.4	3821.8	3817.0
40°	4323.8	4342.7	4304.8	4266.9	4233.8	4219.6	4243.3	4290.6	4290.6	4262.2	4262.2
42.5°	4773.7	4787.9	4726.3	4679.0	4636.3	4626.9	4641.1	4697.9	4712.1	4707.4	4707.4
45°	5223.6	5214.1	5133.6	5086.2	5048.3	5024.7	5029.4	5072.0	5100.4	5114.6	5114.6
47.5°	5569.3	5555.1	5488.8	5450.9	5427.2	5394.1	5394.1	5417.7	5431.9	5436.7	5436.7
50°	5844.0	5829.7	5763.4	5758.7	5758.7	5744.5	5730.3	5725.6	5716.1	5720.8	5720.8
52.5°	6080.7	6061.8	6014.4	6023.9	6066.5	6076.0	6057.1	6019.2	5981.3	5967.1	5971.8
55°	6336.5	6308.1	6270.2	6298.6	6383.8	6421.7	6393.3	6317.5	6251.2	6208.6	6208.6
57.5°	6540.1	6507.0	6507.0	6587.5	6743.8	6819.5	6758.0	6615.9	6502.2	6454.9	6459.6
60°	6398.0	6369.6	6483.3	6838.5	7132.1	7260.0	7155.8	6904.8	6720.1	6663.2	6672.7
62.5°	6118.6	6099.7	6241.8	6791.1	7482.5	7747.7	7591.5	7231.5	6956.9	6890.6	6890.6
65°	5706.6	5701.9	5900.8	6578.0	7563.0	8216.6	8084.0	7586.7	7231.5	7141.6	7160.5
67.5°	5280.4	5280.4	5460.4	6213.3	7468.3	8415.5	8519.7	7908.8	7364.1	7141.6	7146.3
70°	4527.4	4607.9	5086.2	5877.1	7122.6	8273.4	8699.6	7681.4	6786.4	6393.3	6379.1
72.5°	2983.5	3087.7	4039.6	5289.9	6781.6	7757.2	7851.9	6748.5	5635.6	5176.2	5152.5
75°	1799.6	1889.6	2618.9	4129.6	5962.3	6246.5	5829.7	5289.9	4210.1	3850.2	3850.2
77.5°	530.4	592.0	1207.6	2618.9	4124.9	4105.9	3594.5	3116.1	2491.0	2116.9	2145.3
80°	312.6	322.0	393.1	1193.4	1709.6	1799.6	1387.6	866.6	866.6	644.1	625.1
82.5°	241.5	241.5	251.0	298.4	412.0	459.4	350.4	298.4	341.0	288.9	274.7
85°	170.5	170.5	170.5	175.2	180.0	184.7	194.2	198.9	217.8	180.0	170.5
87.5°	52.1	56.8	61.6	71.0	85.2	90.0	94.7	85.2	85.2	80.5	75.8
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)