

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: P836062

Luminaire Tested: **ARCH3-130-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836062
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: ARCH3-130-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20024 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 132.6
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

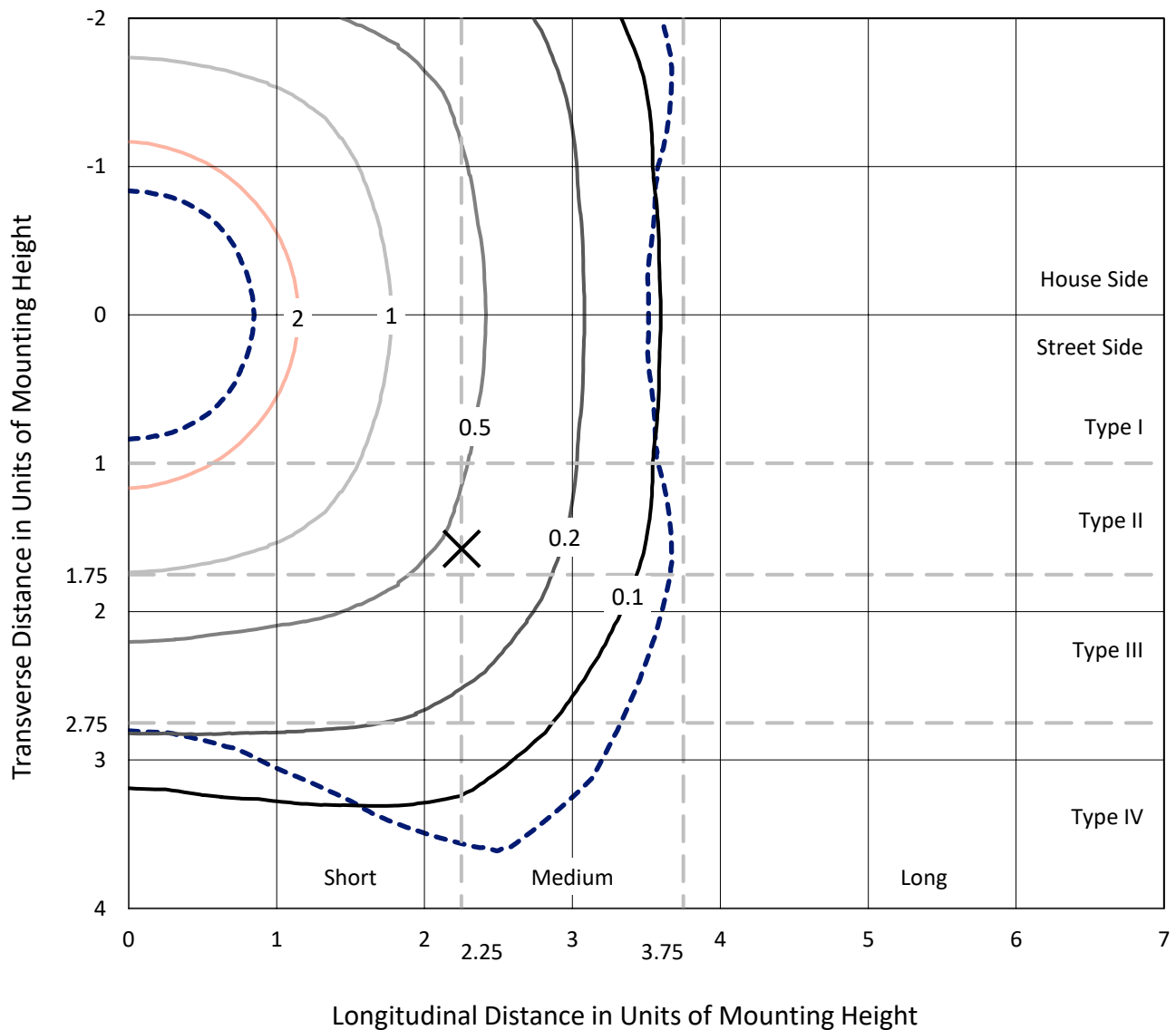


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Iso-Footcandle Lines of Horizontal Illumination

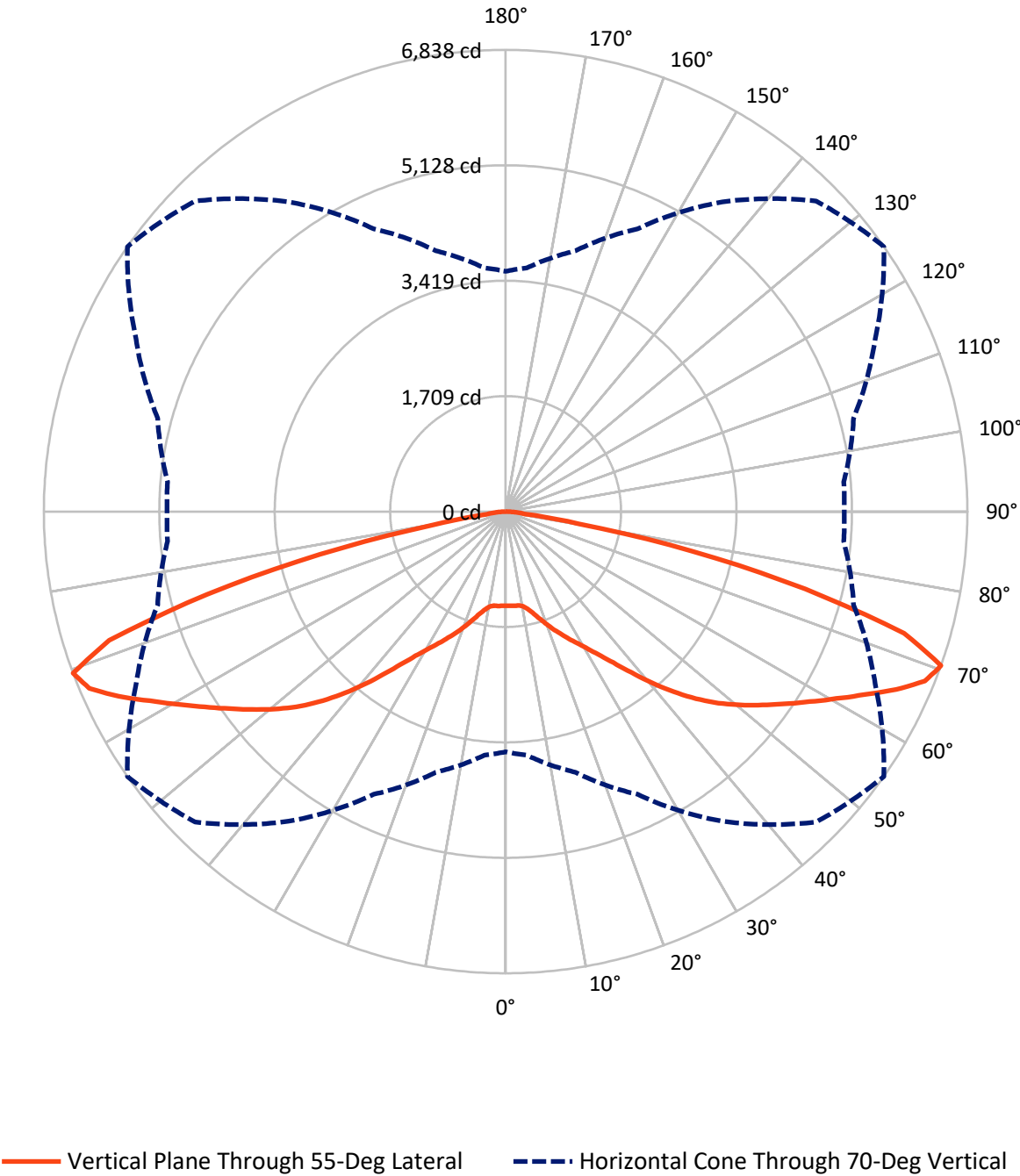
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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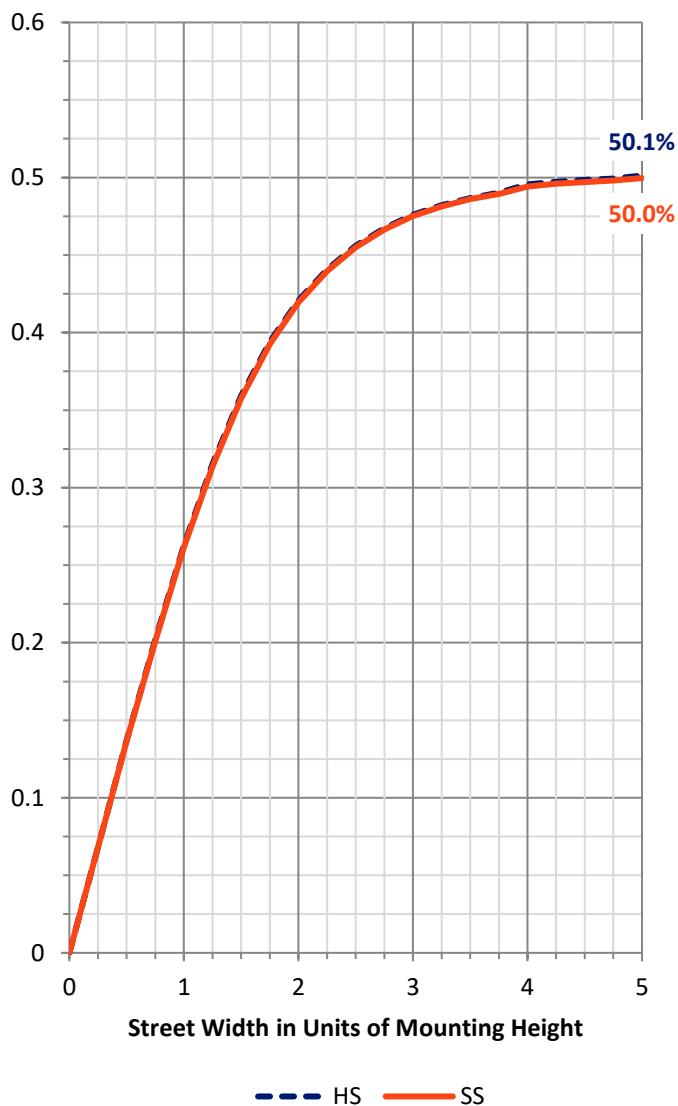
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10012.0	0.0	10012.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10012.0	0.0	10012.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20024.0	0.0	20024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	0.7
10°-20°	458.6	2.3
20°-30°	953.0	4.8
30°-40°	1760.1	8.8
40°-50°	3092.1	15.4
50°-60°	4459.5	22.3
60°-70°	5458.0	27.3
70°-80°	3473.0	17.3
80°-90°	235.0	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°	20024.0	100.0
0°-180°	20024.0	100.0

Coefficient of Utilization



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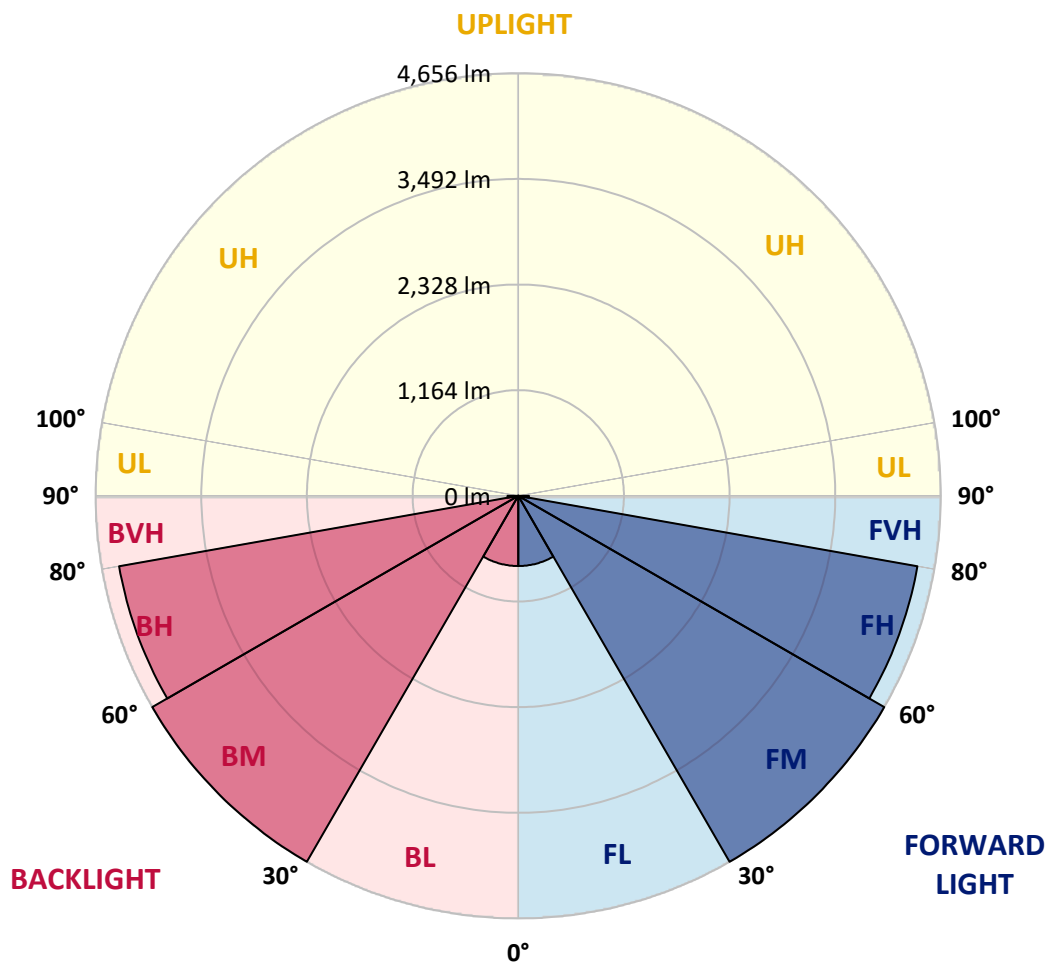
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.2	3.9			
FM	(30°-60°)	4655.8	23.3			
FH	(60°-80°)	4465.5	22.3			G2/5000
FVH	(80°-90°)	117.5	0.6			G2/225
BL	(0°-30°)	773.2	3.9	B2/1000		
BM	(30°-60°)	4655.8	23.3	B3/5000		
BH	(60°-80°)	4465.5	22.3	B4/5000		G2/5000
BVH	(80°-90°)	117.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1395.9	1395.9	1395.9	1395.9	1395.9	1395.9	1395.9	1395.9	1395.9	1395.9	1395.9
2.5°	1414.5	1414.5	1410.8	1410.8	1403.3	1399.6	1395.9	1395.9	1392.1	1392.1	1388.4
5°	1421.9	1421.9	1421.9	1418.2	1414.5	1410.8	1403.3	1395.9	1392.1	1388.4	1384.7
7.5°	1425.6	1425.6	1421.9	1421.9	1418.2	1414.5	1403.3	1392.1	1388.4	1384.7	1384.7
10°	1455.4	1451.7	1448.0	1440.5	1440.5	1440.5	1425.6	1414.5	1410.8	1410.8	1410.8
12.5°	1526.1	1522.4	1515.0	1503.8	1503.8	1507.5	1485.2	1470.3	1470.3	1466.6	1466.6
15°	1630.4	1626.6	1619.2	1600.6	1596.9	1604.3	1570.8	1555.9	1555.9	1555.9	1552.2
17.5°	1745.8	1738.3	1727.1	1712.3	1712.3	1712.3	1678.8	1660.1	1649.0	1649.0	1645.3
20°	1842.5	1838.8	1838.8	1835.1	1846.3	1846.3	1801.6	1771.8	1745.8	1730.9	1727.1
22.5°	1928.2	1924.4	1931.9	1946.8	1969.1	1976.5	1924.4	1879.8	1838.8	1809.0	1801.6
25°	2043.5	2039.8	2036.1	2058.4	2095.7	2106.8	2051.0	1995.2	1954.2	1939.3	1931.9
27.5°	2166.4	2170.1	2173.8	2196.2	2225.9	2244.5	2188.7	2136.6	2103.1	2080.8	2073.3
30°	2304.1	2311.5	2322.7	2356.2	2378.5	2386.0	2337.6	2300.4	2270.6	2252.0	2240.8
32.5°	2479.1	2493.9	2508.8	2538.6	2549.8	2542.3	2520.0	2493.9	2471.6	2445.5	2441.8
35°	2739.6	2754.5	2750.8	2761.9	2765.7	2758.2	2747.1	2732.2	2721.0	2687.5	2683.8
37.5°	3067.2	3082.1	3059.7	3048.6	3022.5	3026.2	3022.5	3033.7	3037.4	3003.9	3000.2
40°	3398.5	3413.3	3383.6	3353.8	3327.7	3316.6	3335.2	3372.4	3372.4	3350.1	3350.1
42.5°	3752.1	3763.2	3714.9	3677.6	3644.1	3636.7	3647.9	3692.5	3703.7	3700.0	3700.0
45°	4105.7	4098.2	4035.0	3997.7	3968.0	3949.4	3953.1	3986.6	4008.9	4020.1	4020.1
47.5°	4377.4	4366.3	4314.1	4284.4	4265.8	4239.7	4239.7	4258.3	4269.5	4273.2	4273.2
50°	4593.3	4582.1	4530.0	4526.3	4526.3	4515.1	4504.0	4500.3	4492.8	4496.5	4496.5
52.5°	4779.4	4764.5	4727.3	4734.8	4768.3	4775.7	4760.8	4731.0	4701.3	4690.1	4693.8
55°	4980.4	4958.1	4928.3	4950.7	5017.7	5047.4	5025.1	4965.5	4913.4	4879.9	4879.9
57.5°	5140.5	5114.4	5114.4	5177.7	5300.6	5360.1	5311.7	5200.1	5110.7	5073.5	5077.2
60°	5028.8	5006.5	5095.8	5375.0	5605.8	5706.3	5624.4	5427.1	5281.9	5237.3	5244.7
62.5°	4809.2	4794.3	4906.0	5337.8	5881.2	6089.7	5966.8	5683.9	5468.1	5415.9	5415.9
65°	4485.4	4481.6	4638.0	5170.3	5944.5	6458.2	6354.0	5963.1	5683.9	5613.2	5628.1
67.5°	4150.4	4150.4	4291.8	4883.7	5870.1	6614.5	6696.4	6216.2	5788.2	5613.2	5616.9
70°	3558.5	3621.8	3997.7	4619.4	5598.3	6502.9	6837.9	6037.6	5334.1	5025.1	5013.9
72.5°	2345.0	2426.9	3175.1	4157.8	5330.3	6097.1	6171.6	5304.3	4429.5	4068.5	4049.9
75°	1414.5	1485.2	2058.4	3245.8	4686.4	4909.7	4582.1	4157.8	3309.1	3026.2	3026.2
77.5°	416.9	465.3	949.2	2058.4	3242.1	3227.2	2825.2	2449.3	1957.9	1663.9	1686.2
80°	245.7	253.1	309.0	938.0	1343.7	1414.5	1090.6	681.2	681.2	506.2	491.3
82.5°	189.8	189.8	197.3	234.5	323.8	361.1	275.5	234.5	268.0	227.1	215.9
85°	134.0	134.0	134.0	137.7	141.4	145.2	152.6	156.3	171.2	141.4	134.0
87.5°	40.9	44.7	48.4	55.8	67.0	70.7	74.4	67.0	67.0	63.3	59.6
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)