

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: P836386

Luminaire Tested: **ARCH3-180-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836386
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: ARCH3-180-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22748 lumens
Efficiency: N/A
Efficacy: 126.0 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): 180.5
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

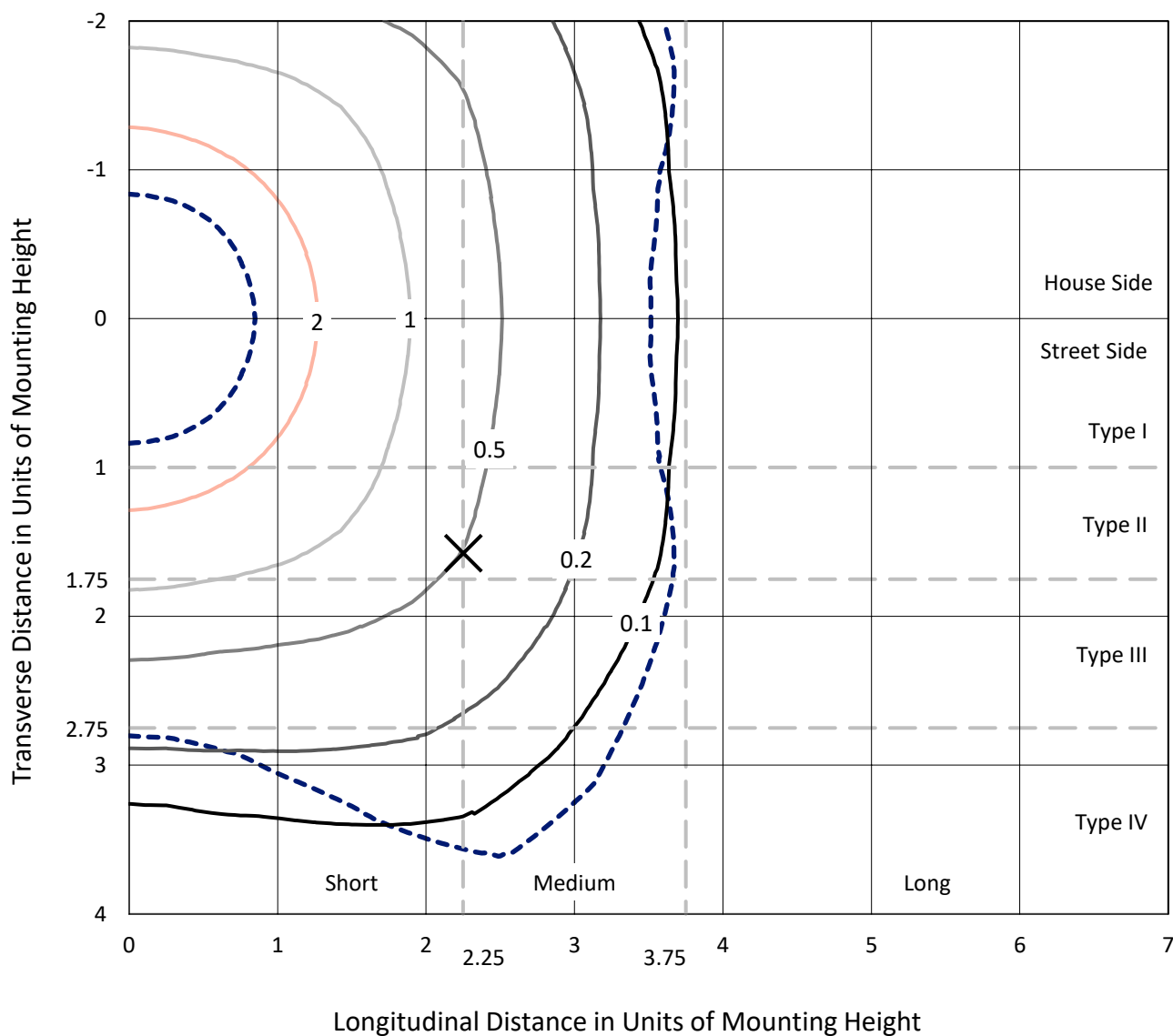


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Iso-Footcandle Lines of Horizontal Illumination

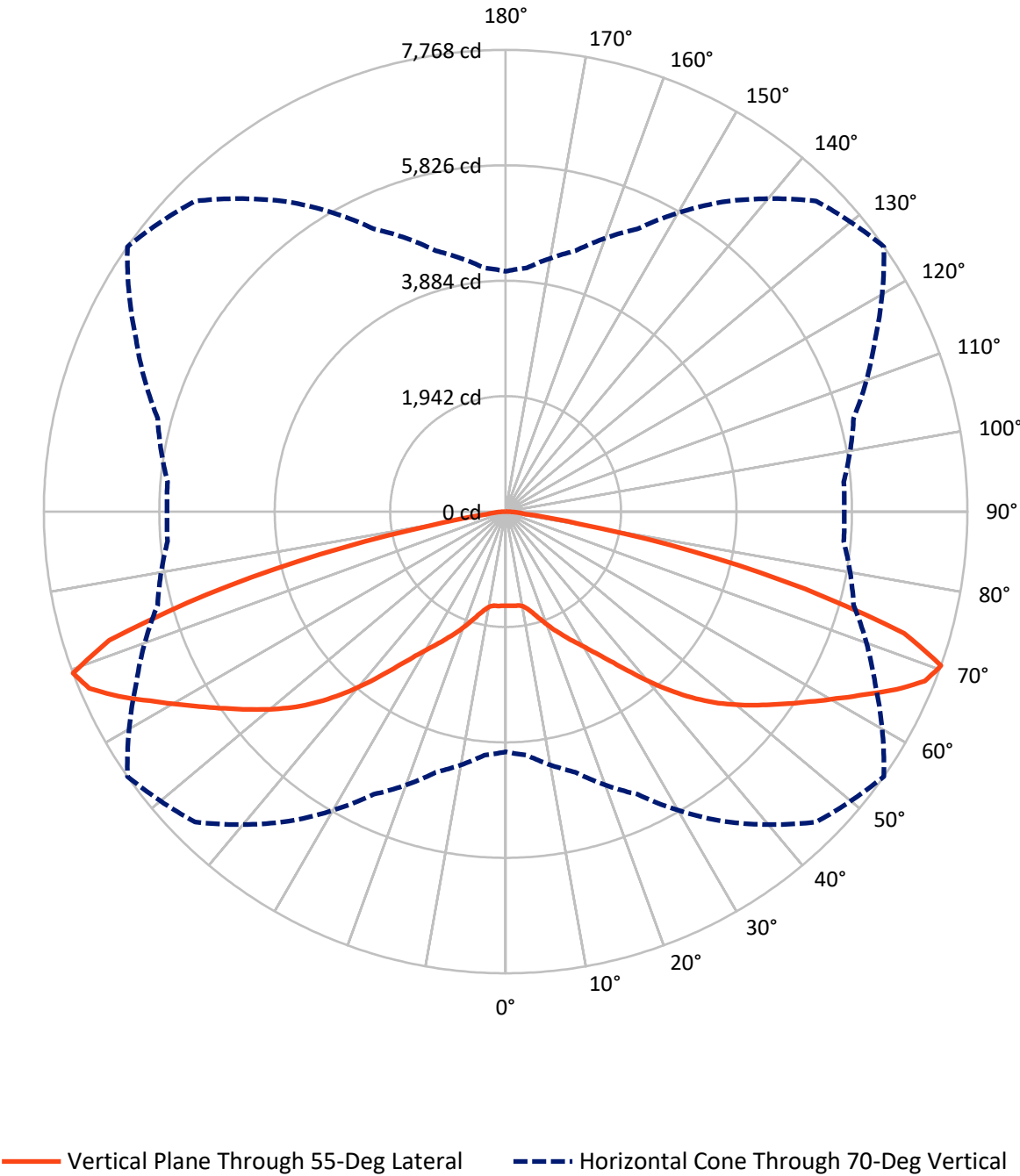
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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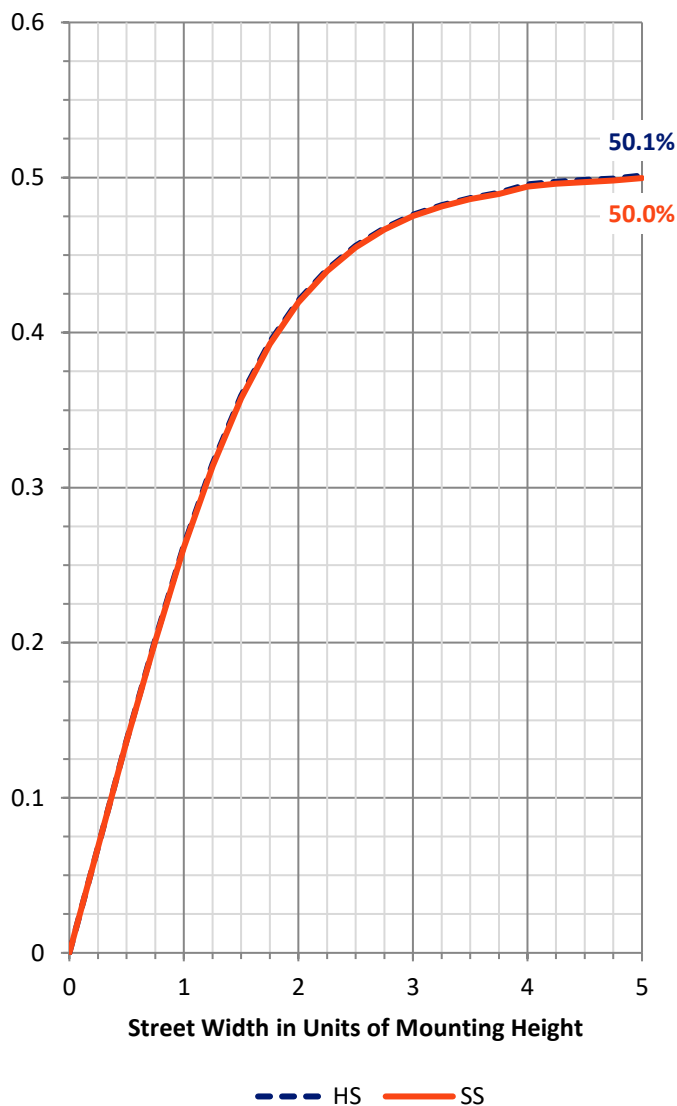
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11374.0	0.0	11374.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11374.0	0.0	11374.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22748.0	0.0	22748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	0.7
10°-20°	521.0	2.3
20°-30°	1082.6	4.8
30°-40°	1999.5	8.8
40°-50°	3512.7	15.4
50°-60°	5066.2	22.3
60°-70°	6200.4	27.3
70°-80°	3945.5	17.3
80°-90°	267.0	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°	22748.0	100.0
0°-180°	22748.0	100.0

Coefficient of Utilization



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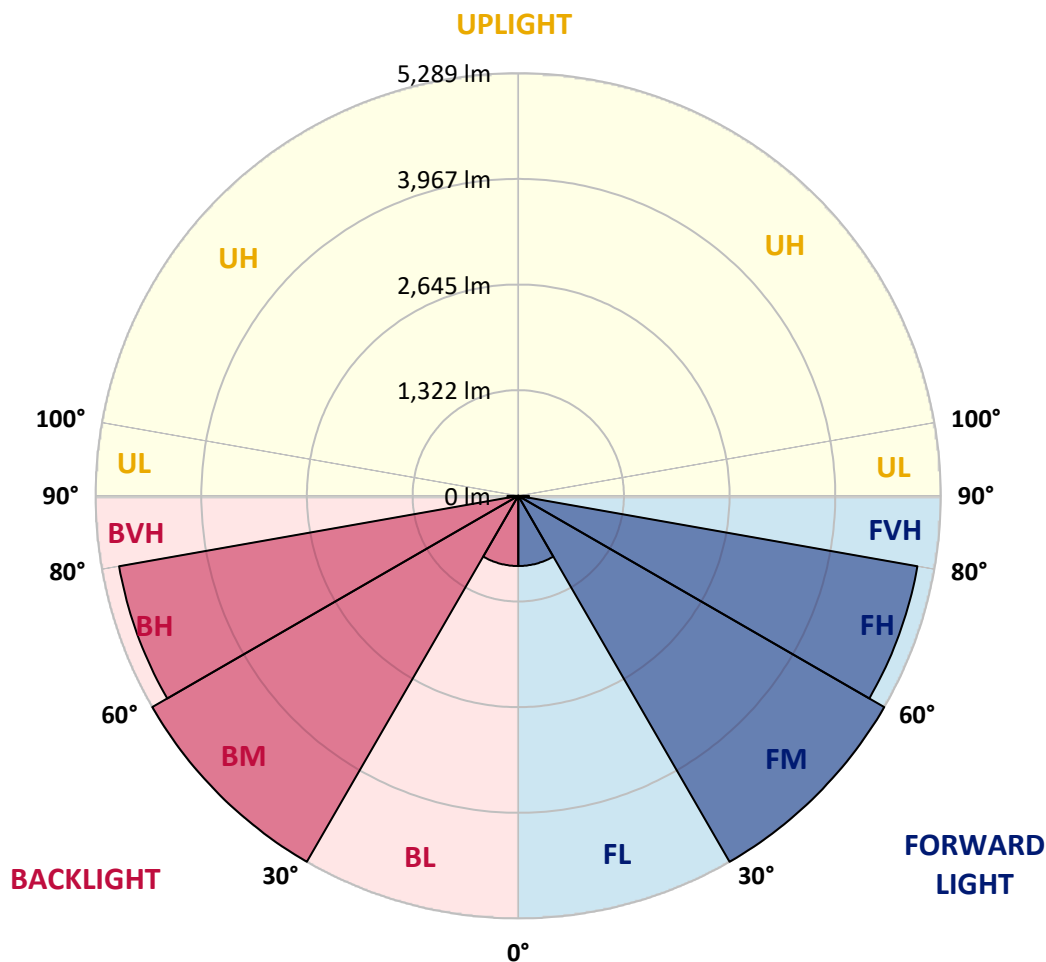
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.4	3.9			
FM	(30°-60°)	5289.2	23.3			
FH	(60°-80°)	5073.0	22.3			G3/7500
FVH	(80°-90°)	133.5	0.6			G2/225
BL	(0°-30°)	878.4	3.9	B2/1000		
BM	(30°-60°)	5289.2	23.3	B4/8500		
BH	(60°-80°)	5073.0	22.3	B5		G3/7500
BVH	(80°-90°)	133.5	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°	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8	1585.8
2.5°	1606.9	1606.9	1602.7	1602.7	1594.2	1590.0	1585.8	1585.8	1581.5	1581.5	1577.3
5°	1615.4	1615.4	1615.4	1611.1	1606.9	1602.7	1594.2	1585.8	1581.5	1577.3	1573.1
7.5°	1619.6	1619.6	1615.4	1615.4	1611.1	1606.9	1594.2	1581.5	1577.3	1573.1	1573.1
10°	1653.4	1649.2	1645.0	1636.5	1636.5	1636.5	1619.6	1606.9	1602.7	1602.7	1602.7
12.5°	1733.8	1729.5	1721.1	1708.4	1708.4	1712.6	1687.2	1670.3	1670.3	1666.1	1666.1
15°	1852.2	1847.9	1839.5	1818.3	1814.1	1822.6	1784.5	1767.6	1767.6	1767.6	1763.4
17.5°	1983.2	1974.8	1962.1	1945.2	1945.2	1945.2	1907.1	1886.0	1873.3	1873.3	1869.1
20°	2093.2	2089.0	2089.0	2084.7	2097.4	2097.4	2046.7	2012.8	1983.2	1966.3	1962.1
22.5°	2190.4	2186.2	2194.7	2211.6	2237.0	2245.4	2186.2	2135.5	2089.0	2055.1	2046.7
25°	2321.5	2317.3	2313.1	2338.5	2380.7	2393.4	2330.0	2266.6	2220.1	2203.1	2194.7
27.5°	2461.1	2465.3	2469.5	2494.9	2528.7	2549.9	2486.5	2427.3	2389.2	2363.8	2355.4
30°	2617.5	2626.0	2638.7	2676.7	2702.1	2710.6	2655.6	2613.3	2579.5	2558.3	2545.7
32.5°	2816.3	2833.2	2850.1	2884.0	2896.6	2888.2	2862.8	2833.2	2807.8	2778.2	2774.0
35°	3112.3	3129.2	3125.0	3137.7	3141.9	3133.4	3120.8	3103.8	3091.2	3053.1	3048.9
37.5°	3484.4	3501.3	3476.0	3463.3	3433.7	3437.9	3433.7	3446.4	3450.6	3412.5	3408.3
40°	3860.8	3877.7	3843.9	3810.0	3780.4	3767.7	3788.9	3831.2	3831.2	3805.8	3805.8
42.5°	4262.5	4275.2	4220.2	4177.9	4139.9	4131.4	4144.1	4194.8	4207.5	4203.3	4203.3
45°	4664.2	4655.8	4583.9	4541.6	4507.8	4486.6	4490.8	4528.9	4554.3	4567.0	4567.0
47.5°	4972.9	4960.2	4901.0	4867.2	4846.1	4816.5	4816.5	4837.6	4850.3	4854.5	4854.5
50°	5218.2	5205.5	5146.3	5142.1	5142.1	5129.4	5116.7	5112.5	5104.0	5108.2	5108.2
52.5°	5429.6	5412.7	5370.4	5378.9	5416.9	5425.4	5408.5	5374.6	5340.8	5328.1	5332.3
55°	5658.0	5632.6	5598.8	5624.1	5700.2	5734.1	5708.7	5641.0	5581.8	5543.8	5543.8
57.5°	5839.8	5810.2	5810.2	5882.1	6021.6	6089.3	6034.3	5907.4	5806.0	5763.7	5767.9
60°	5712.9	5687.6	5789.0	6106.2	6368.4	6482.5	6389.5	6165.4	6000.5	5949.7	5958.2
62.5°	5463.4	5446.5	5573.4	6063.9	6681.3	6918.1	6778.6	6457.2	6211.9	6152.7	6152.7
65°	5095.5	5091.3	5268.9	5873.6	6753.2	7336.7	7218.3	6774.3	6457.2	6376.8	6393.7
67.5°	4715.0	4715.0	4875.7	5548.0	6668.6	7514.3	7607.4	7061.9	6575.6	6376.8	6381.1
70°	4042.6	4114.5	4541.6	5247.8	6359.9	7387.5	7768.1	6858.9	6059.7	5708.7	5696.0
72.5°	2664.1	2757.1	3607.1	4723.4	6055.5	6926.6	7011.1	6025.9	5032.1	4621.9	4600.8
75°	1606.9	1687.2	2338.5	3687.4	5323.9	5577.6	5205.5	4723.4	3759.3	3437.9	3437.9
77.5°	473.6	528.6	1078.3	2338.5	3683.2	3666.3	3209.6	2782.5	2224.3	1890.2	1915.6
80°	279.1	287.5	351.0	1065.6	1526.5	1606.9	1239.0	773.8	773.8	575.1	558.2
82.5°	215.7	215.7	224.1	266.4	367.9	410.2	312.9	266.4	304.5	257.9	245.3
85°	152.2	152.2	152.2	156.5	160.7	164.9	173.4	177.6	194.5	160.7	152.2
87.5°	46.5	50.7	55.0	63.4	76.1	80.3	84.6	76.1	76.1	71.9	67.7
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)