

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: P836323

Luminaire Tested: **ARCH3-170-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836323
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: ARCH3-170-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22743 lumens
Efficiency: N/A
Efficacy: 133.3 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): 170.6
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

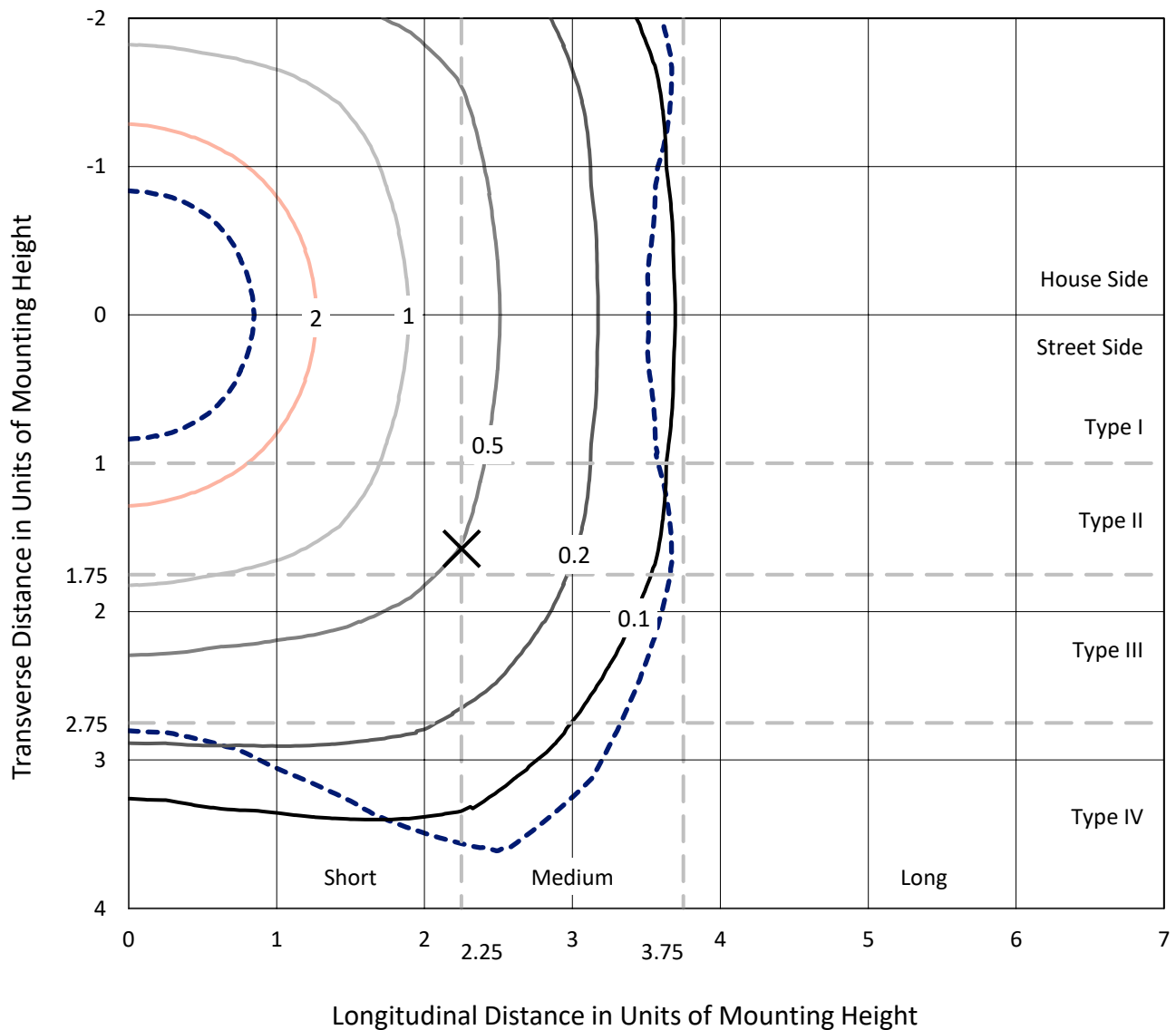


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Iso-Footcandle Lines of Horizontal Illumination

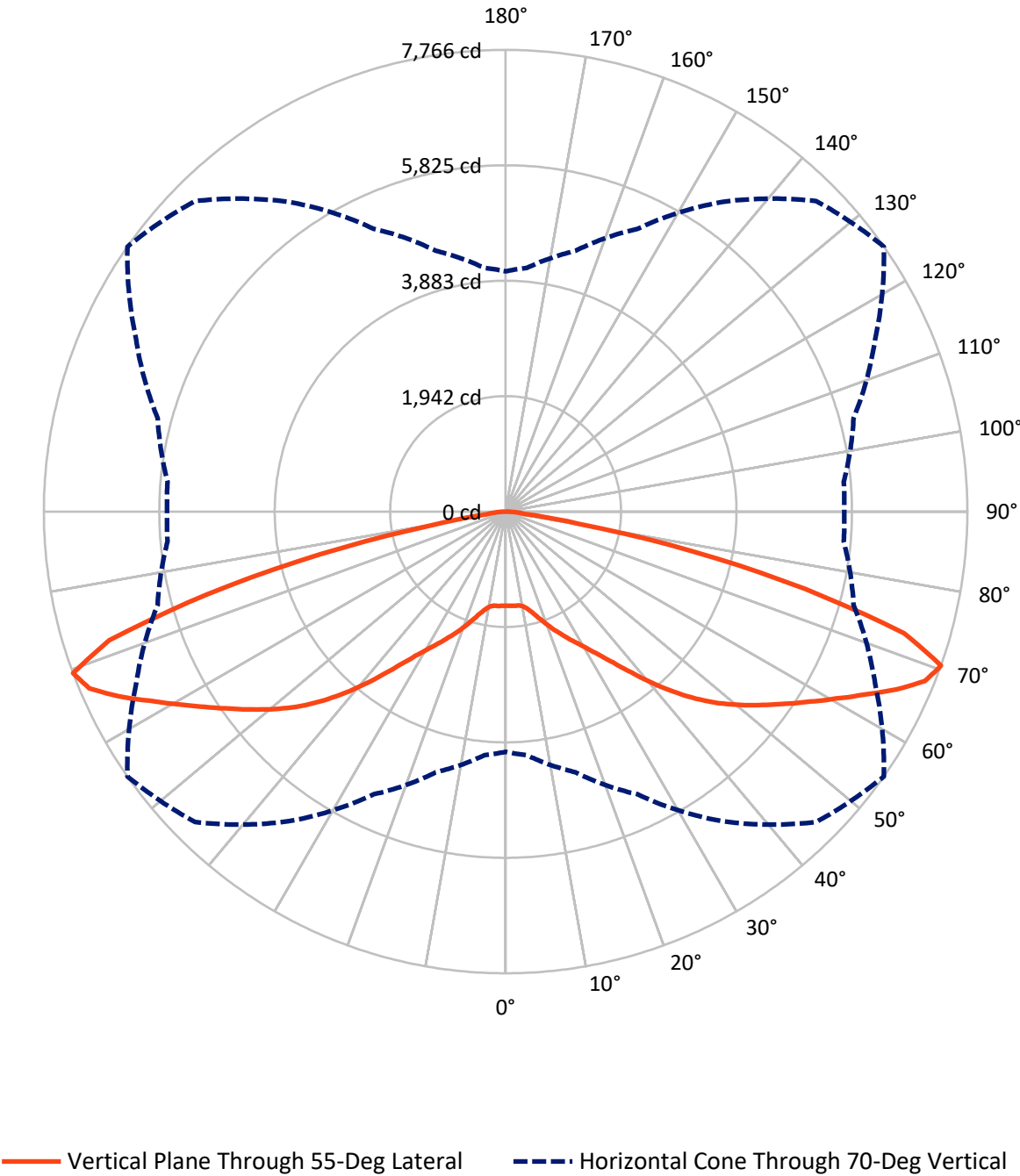
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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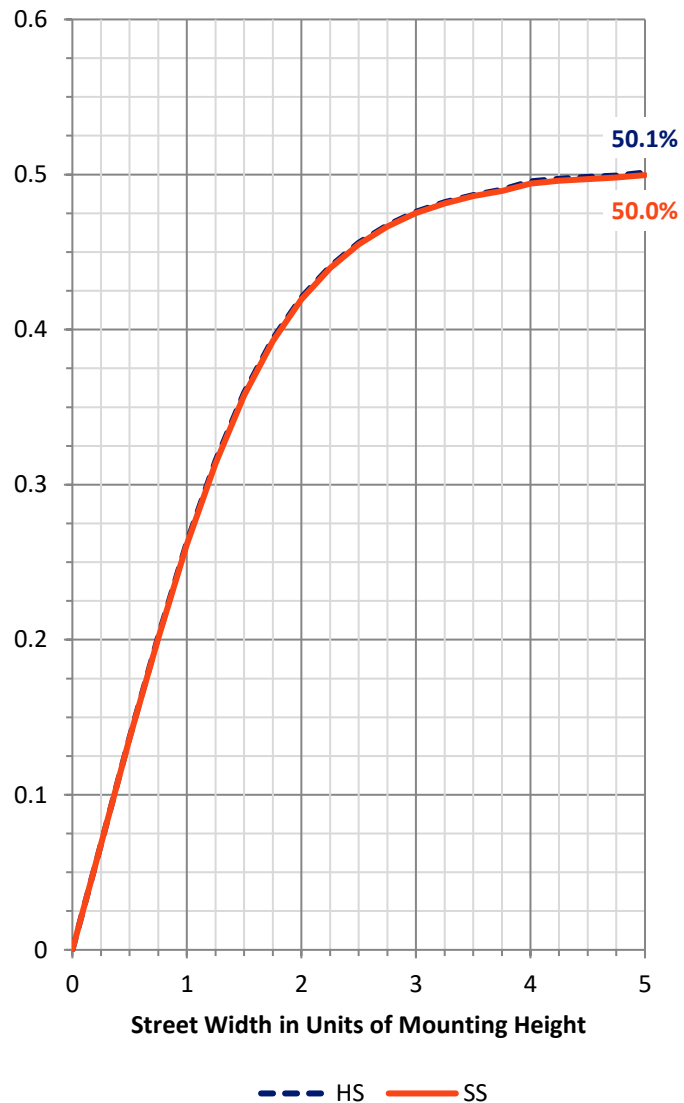
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11371.5	0.0	11371.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11371.5	0.0	11371.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22743.0	0.0	22743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	0.7
10°-20°	520.9	2.3
20°-30°	1082.4	4.8
30°-40°	1999.1	8.8
40°-50°	3511.9	15.4
50°-60°	5065.1	22.3
60°-70°	6199.1	27.3
70°-80°	3944.6	17.3
80°-90°	266.9	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°	22743.0	100.0
0°-180°	22743.0	100.0

Coefficient of Utilization



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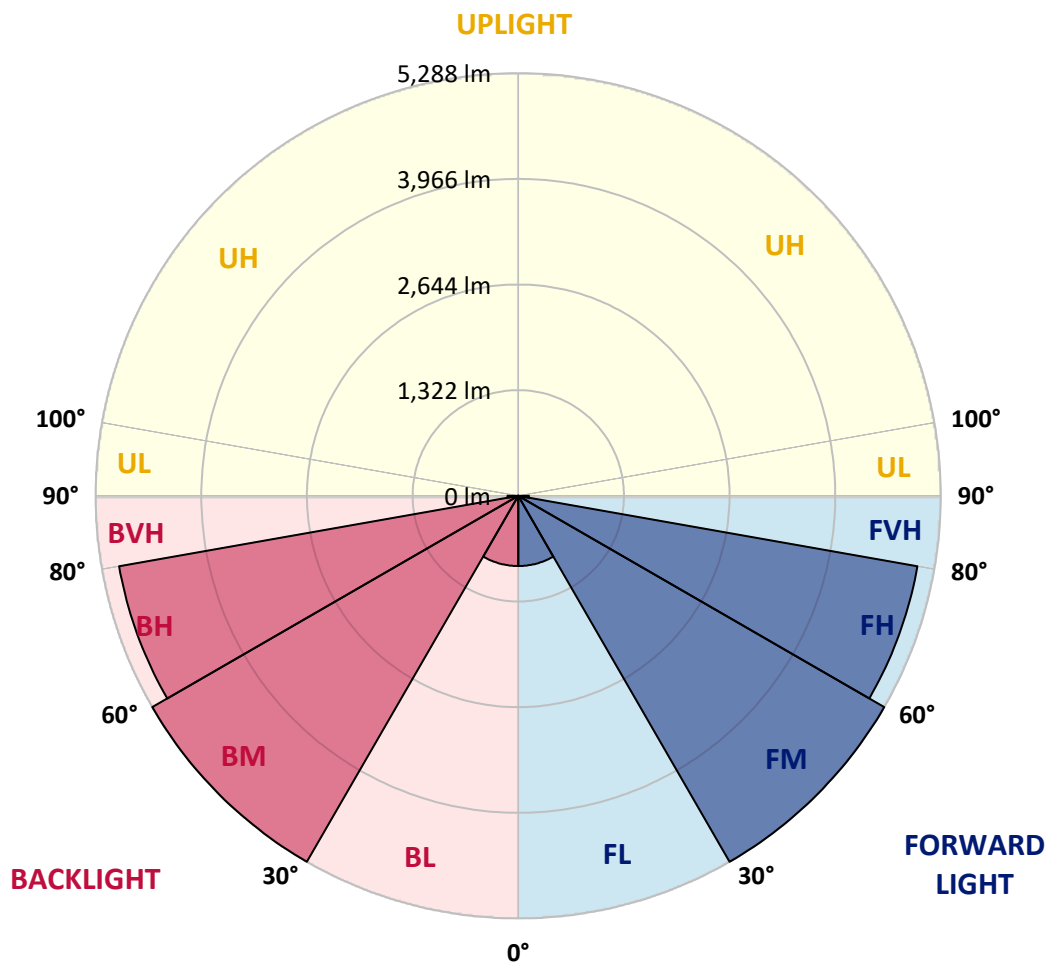
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.2	3.9			
FM	(30°-60°)	5288.0	23.3			
FH	(60°-80°)	5071.8	22.3			G3/7500
FVH	(80°-90°)	133.5	0.6			G2/225
BL	(0°-30°)	878.2	3.9	B2/1000		
BM	(30°-60°)	5288.0	23.3	B4/8500		
BH	(60°-80°)	5071.8	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°	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4
2.5°	1606.5	1606.5	1602.3	1602.3	1593.9	1589.6	1585.4	1585.4	1581.2	1581.2	1576.9
5°	1615.0	1615.0	1615.0	1610.8	1606.5	1602.3	1593.9	1585.4	1581.2	1576.9	1572.7
7.5°	1619.2	1619.2	1615.0	1615.0	1610.8	1606.5	1593.9	1581.2	1576.9	1572.7	1572.7
10°	1653.0	1648.8	1644.6	1636.1	1636.1	1636.1	1619.2	1606.5	1602.3	1602.3	1602.3
12.5°	1733.4	1729.1	1720.7	1708.0	1708.0	1712.2	1686.9	1670.0	1670.0	1665.7	1665.7
15°	1851.7	1847.5	1839.1	1817.9	1813.7	1822.2	1784.1	1767.2	1767.2	1767.2	1763.0
17.5°	1982.8	1974.4	1961.7	1944.8	1944.8	1944.8	1906.7	1885.6	1872.9	1872.9	1868.7
20°	2092.7	2088.5	2088.5	2084.3	2097.0	2097.0	2046.2	2012.4	1982.8	1965.9	1961.7
22.5°	2190.0	2185.7	2194.2	2211.1	2236.5	2244.9	2185.7	2135.0	2088.5	2054.7	2046.2
25°	2321.0	2316.8	2312.6	2337.9	2380.2	2392.9	2329.5	2266.1	2219.6	2202.7	2194.2
27.5°	2460.5	2464.8	2469.0	2494.4	2528.2	2549.3	2485.9	2426.7	2388.7	2363.3	2354.8
30°	2617.0	2625.4	2638.1	2676.2	2701.5	2710.0	2655.0	2612.7	2578.9	2557.8	2545.1
32.5°	2815.7	2832.6	2849.5	2883.3	2896.0	2887.5	2862.2	2832.6	2807.2	2777.6	2773.4
35°	3111.6	3128.5	3124.3	3137.0	3141.2	3132.8	3120.1	3103.2	3090.5	3052.4	3048.2
37.5°	3483.7	3500.6	3475.2	3462.5	3432.9	3437.2	3432.9	3445.6	3449.8	3411.8	3407.6
40°	3859.9	3876.8	3843.0	3809.2	3779.6	3766.9	3788.1	3830.3	3830.3	3805.0	3805.0
42.5°	4261.6	4274.2	4219.3	4177.0	4139.0	4130.5	4143.2	4193.9	4206.6	4202.4	4202.4
45°	4663.2	4654.7	4582.9	4540.6	4506.8	4485.6	4489.9	4527.9	4553.3	4566.0	4566.0
47.5°	4971.8	4959.1	4899.9	4866.1	4845.0	4815.4	4815.4	4836.5	4849.2	4853.4	4853.4
50°	5217.0	5204.3	5145.2	5140.9	5140.9	5128.2	5115.6	5111.3	5102.9	5107.1	5107.1
52.5°	5428.4	5411.5	5369.2	5377.7	5415.7	5424.2	5407.3	5373.5	5339.6	5326.9	5331.2
55°	5656.7	5631.3	5597.5	5622.9	5699.0	5732.8	5707.4	5639.8	5580.6	5542.6	5542.6
57.5°	5838.5	5808.9	5808.9	5880.8	6020.3	6087.9	6033.0	5906.1	5804.7	5762.4	5766.6
60°	5711.7	5686.3	5787.8	6104.9	6367.0	6481.1	6388.1	6164.0	5999.2	5948.4	5956.9
62.5°	5462.2	5445.3	5572.2	6062.6	6679.8	6916.6	6777.1	6455.8	6210.5	6151.4	6151.4
65°	5094.4	5090.2	5267.8	5872.3	6751.7	7335.1	7216.7	6772.8	6455.8	6375.4	6392.3
67.5°	4713.9	4713.9	4874.6	5546.8	6667.1	7512.7	7605.7	7060.3	6574.1	6375.4	6379.7
70°	4041.7	4113.6	4540.6	5246.6	6358.5	7385.9	7766.4	6857.4	6058.3	5707.4	5694.8
72.5°	2663.5	2756.5	3606.3	4722.4	6054.1	6925.0	7009.6	6024.5	5031.0	4620.9	4599.8
75°	1606.5	1686.9	2337.9	3686.6	5322.7	5576.4	5204.3	4722.4	3758.5	3437.2	3437.2
77.5°	473.5	528.5	1078.1	2337.9	3682.4	3665.4	3208.9	2781.9	2223.8	1889.8	1915.2
80°	279.0	287.5	350.9	1065.4	1526.2	1606.5	1238.7	773.7	773.7	575.0	558.1
82.5°	215.6	215.6	224.1	266.3	367.8	410.1	312.9	266.3	304.4	257.9	245.2
85°	152.2	152.2	152.2	156.4	160.7	164.9	173.3	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	67.6
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)