

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: P836179

Luminaire Tested: **ARCH3-150-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836179
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: ARCH3-150-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20973 lumens
Efficiency: N/A
Efficacy: 139.2 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): 150.7
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

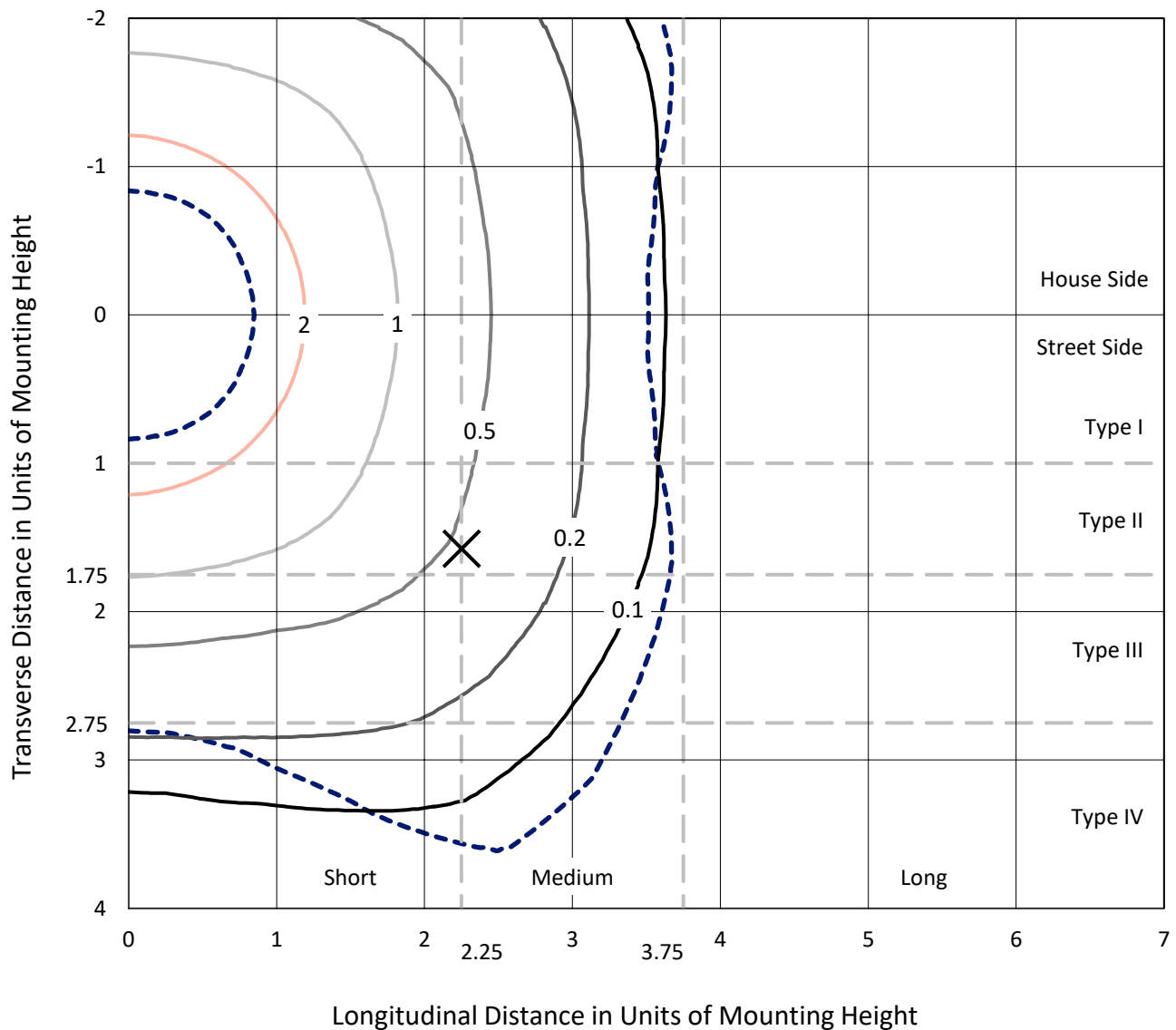


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Iso-Footcandle Lines of Horizontal Illumination

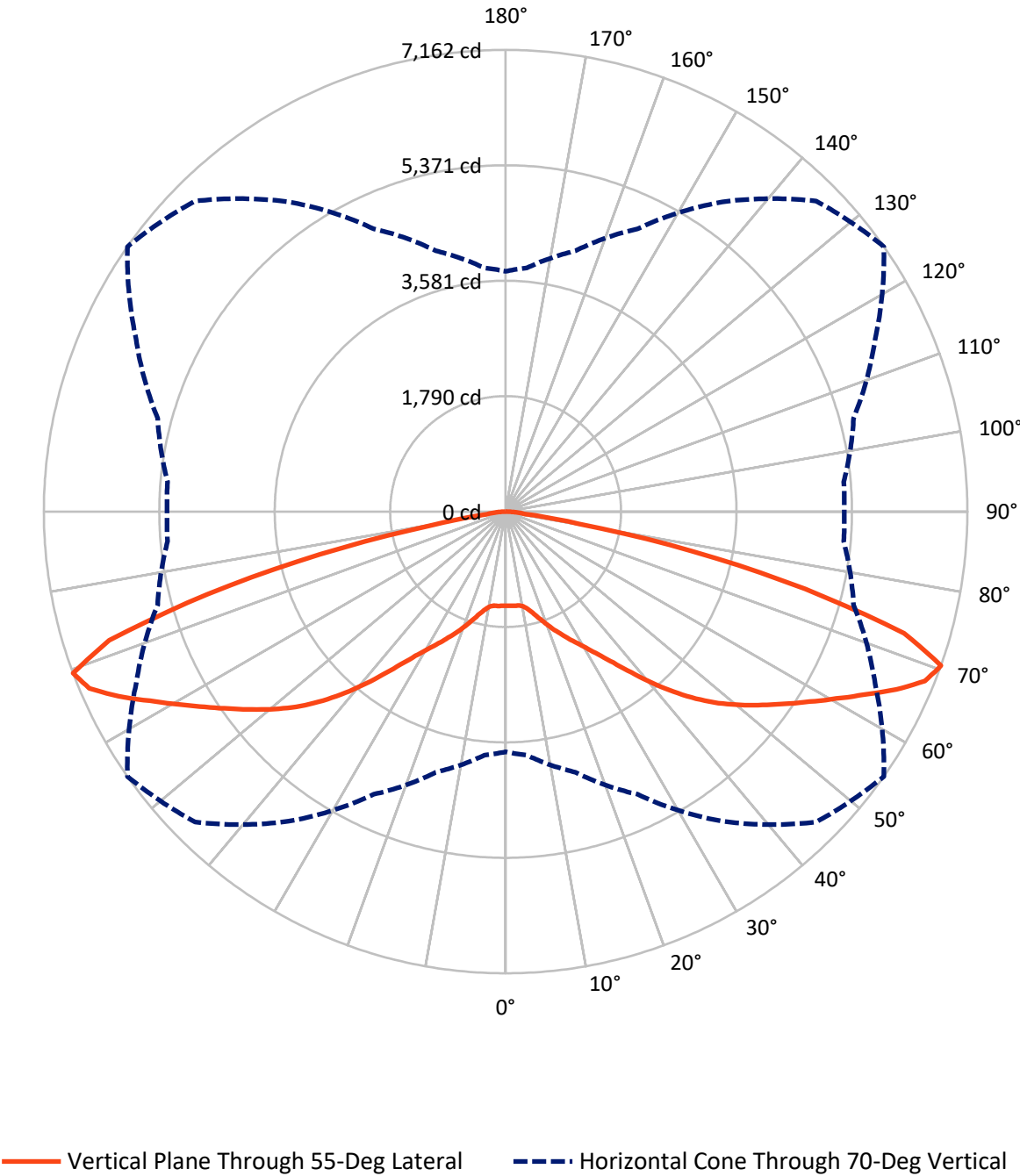
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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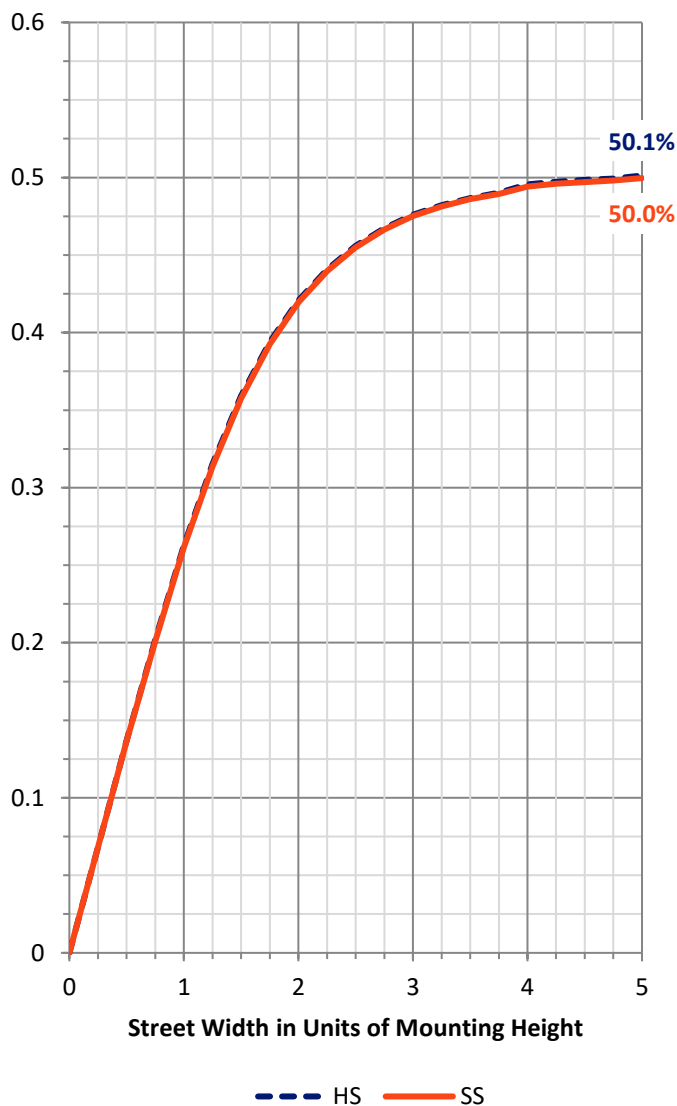
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10486.5	0.0	10486.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10486.5	0.0	10486.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20973.0	0.0	20973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	0.7
10°-20°	480.4	2.3
20°-30°	998.1	4.8
30°-40°	1843.5	8.8
40°-50°	3238.6	15.4
50°-60°	4670.9	22.3
60°-70°	5716.6	27.3
70°-80°	3637.6	17.3
80°-90°	246.1	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°	20973.0	100.0
0°-180°	20973.0	100.0

Coefficient of Utilization



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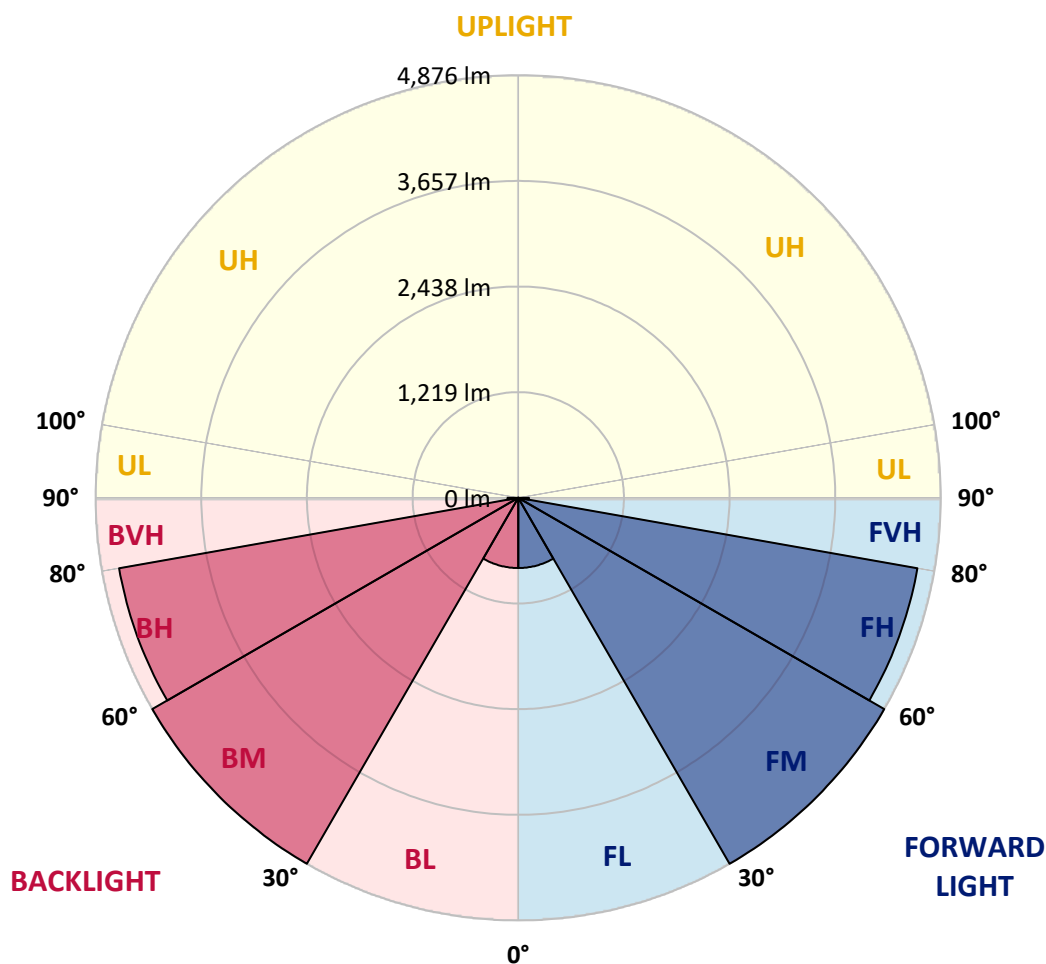
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.8	3.9			
FM	(30°-60°)	4876.5	23.3			
FH	(60°-80°)	4677.1	22.3			G2/5000
FVH	(80°-90°)	123.1	0.6			G2/225
BL	(0°-30°)	809.8	3.9	B2/1000		
BM	(30°-60°)	4876.5	23.3	B3/5000		
BH	(60°-80°)	4677.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	123.1	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°	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1481.5	1481.5	1477.6	1477.6	1469.8	1465.9	1462.0	1462.0	1458.1	1458.1	1454.2
5°	1489.3	1489.3	1489.3	1485.4	1481.5	1477.6	1469.8	1462.0	1458.1	1454.2	1450.3
7.5°	1493.2	1493.2	1489.3	1489.3	1485.4	1481.5	1469.8	1458.1	1454.2	1450.3	1450.3
10°	1524.4	1520.5	1516.6	1508.8	1508.8	1508.8	1493.2	1481.5	1477.6	1477.6	1477.6
12.5°	1598.5	1594.6	1586.8	1575.1	1575.1	1579.0	1555.6	1540.0	1540.0	1536.1	1536.1
15°	1707.6	1703.7	1695.9	1676.4	1672.5	1680.3	1645.3	1629.7	1629.7	1629.7	1625.8
17.5°	1828.5	1820.7	1809.0	1793.4	1793.4	1793.4	1758.3	1738.8	1727.1	1727.1	1723.2
20°	1929.9	1926.0	1926.0	1922.1	1933.8	1933.8	1887.0	1855.8	1828.5	1812.9	1809.0
22.5°	2019.5	2015.6	2023.4	2039.0	2062.4	2070.2	2015.6	1968.8	1926.0	1894.8	1887.0
25°	2140.4	2136.5	2132.6	2156.0	2195.0	2206.7	2148.2	2089.7	2046.8	2031.2	2023.4
27.5°	2269.0	2272.9	2276.8	2300.2	2331.4	2350.9	2292.4	2237.9	2202.8	2179.4	2171.6
30°	2413.3	2421.1	2432.8	2467.9	2491.3	2499.1	2448.4	2409.4	2378.2	2358.7	2347.0
32.5°	2596.5	2612.1	2627.7	2658.9	2670.6	2662.8	2639.4	2612.1	2588.7	2561.5	2557.6
35°	2869.4	2885.0	2881.1	2892.8	2896.7	2888.9	2877.2	2861.7	2850.0	2814.9	2811.0
37.5°	3212.5	3228.1	3204.7	3193.0	3165.8	3169.7	3165.8	3177.4	3181.3	3146.3	3142.4
40°	3559.5	3575.1	3543.9	3512.7	3485.4	3473.7	3493.2	3532.2	3532.2	3508.8	3508.8
42.5°	3929.9	3941.6	3890.9	3851.9	3816.8	3809.0	3820.7	3867.5	3879.2	3875.3	3875.3
45°	4300.3	4292.5	4226.2	4187.2	4156.0	4136.5	4140.4	4175.5	4198.9	4210.6	4210.6
47.5°	4584.9	4573.2	4518.6	4487.4	4467.9	4440.6	4440.6	4460.1	4471.8	4475.7	4475.7
50°	4811.0	4799.3	4744.7	4740.8	4740.8	4729.1	4717.4	4713.5	4705.7	4709.6	4709.6
52.5°	5005.9	4990.3	4951.4	4959.2	4994.2	5002.0	4986.4	4955.3	4924.1	4912.4	4916.3
55°	5216.5	5193.1	5161.9	5185.3	5255.5	5286.6	5263.3	5200.9	5146.3	5111.2	5111.2
57.5°	5384.1	5356.8	5356.8	5423.1	5551.8	5614.1	5563.5	5446.5	5352.9	5313.9	5317.8
60°	5267.2	5243.8	5337.3	5629.7	5871.5	5976.7	5890.9	5684.3	5532.3	5485.5	5493.3
62.5°	5037.1	5021.5	5138.5	5590.7	6160.0	6378.3	6249.6	5953.3	5727.2	5672.6	5672.6
65°	4697.9	4694.0	4857.8	5415.3	6226.2	6764.3	6655.1	6245.7	5953.3	5879.3	5894.8
67.5°	4347.1	4347.1	4495.2	5115.1	6148.3	6928.0	7013.8	6510.8	6062.5	5879.3	5883.2
70°	3727.2	3793.4	4187.2	4838.3	5863.7	6811.0	7161.9	6323.7	5586.9	5263.3	5251.6
72.5°	2456.2	2542.0	3325.6	4354.9	5583.0	6386.1	6464.1	5555.7	4639.5	4261.3	4241.8
75°	1481.5	1555.6	2156.0	3399.7	4908.5	5142.4	4799.3	4354.9	3466.0	3169.7	3169.7
77.5°	436.7	487.3	994.2	2156.0	3395.8	3380.2	2959.1	2565.4	2050.7	1742.7	1766.1
80°	257.3	265.1	323.6	982.5	1407.4	1481.5	1142.3	713.5	713.5	530.2	514.6
82.5°	198.8	198.8	206.6	245.6	339.2	378.2	288.5	245.6	280.7	237.8	226.1
85°	140.4	140.4	140.4	144.3	148.2	152.0	159.8	163.7	179.3	148.2	140.4
87.5°	42.9	46.8	50.7	58.5	70.2	74.1	78.0	70.2	70.2	66.3	62.4
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)