

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: P841261

Luminaire Tested: **ARCH4-150-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25457 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 150.8
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

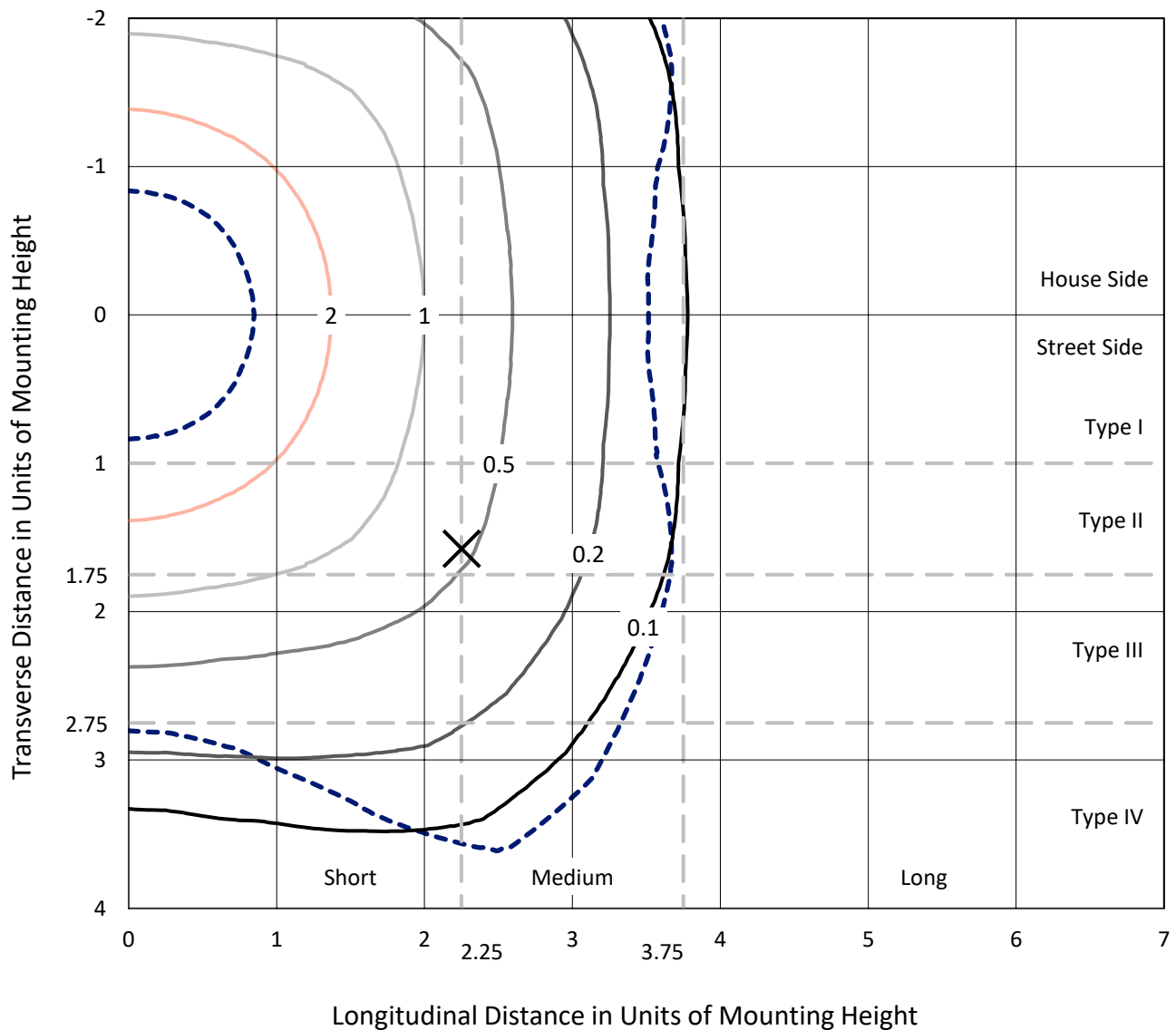


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Iso-Footcandle Lines of Horizontal Illumination

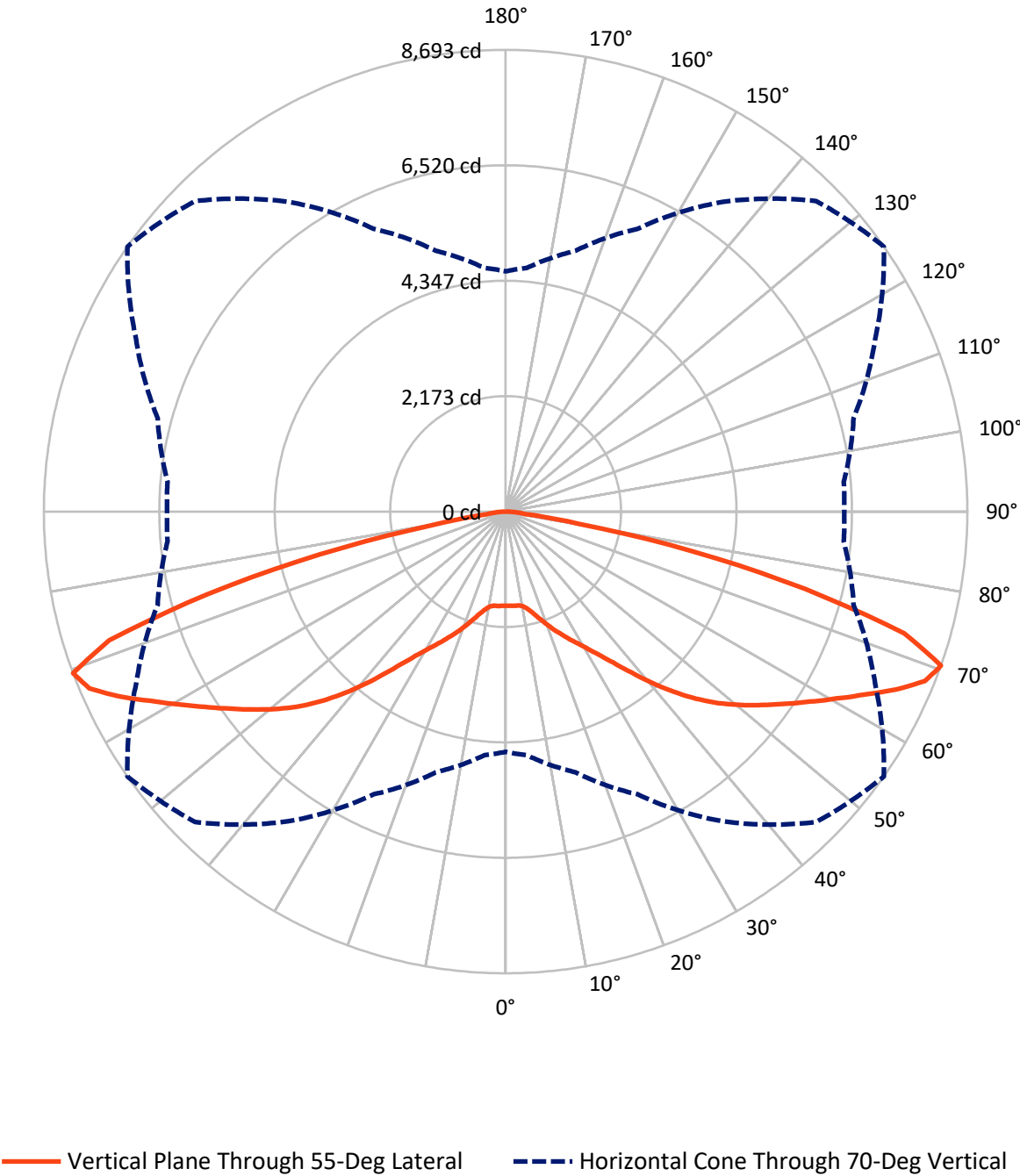
× Max cd
- - - 1/2 Max cd



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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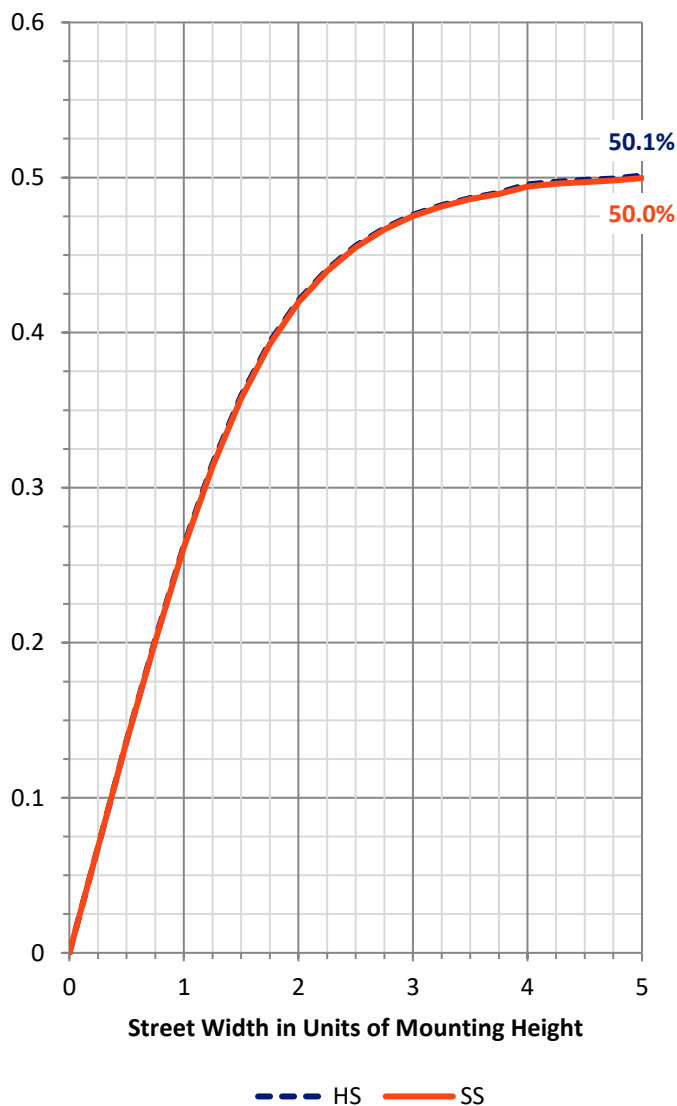
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12728.5	0.0	12728.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12728.5	0.0	12728.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25457.0	0.0	25457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	0.7
10°-20°	583.1	2.3
20°-30°	1211.5	4.8
30°-40°	2237.6	8.8
40°-50°	3931.0	15.4
50°-60°	5669.5	22.3
60°-70°	6938.8	27.3
70°-80°	4415.3	17.3
80°-90°	298.8	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°	25457.0	100.0
0°-180°	25457.0	100.0

Coefficient of Utilization



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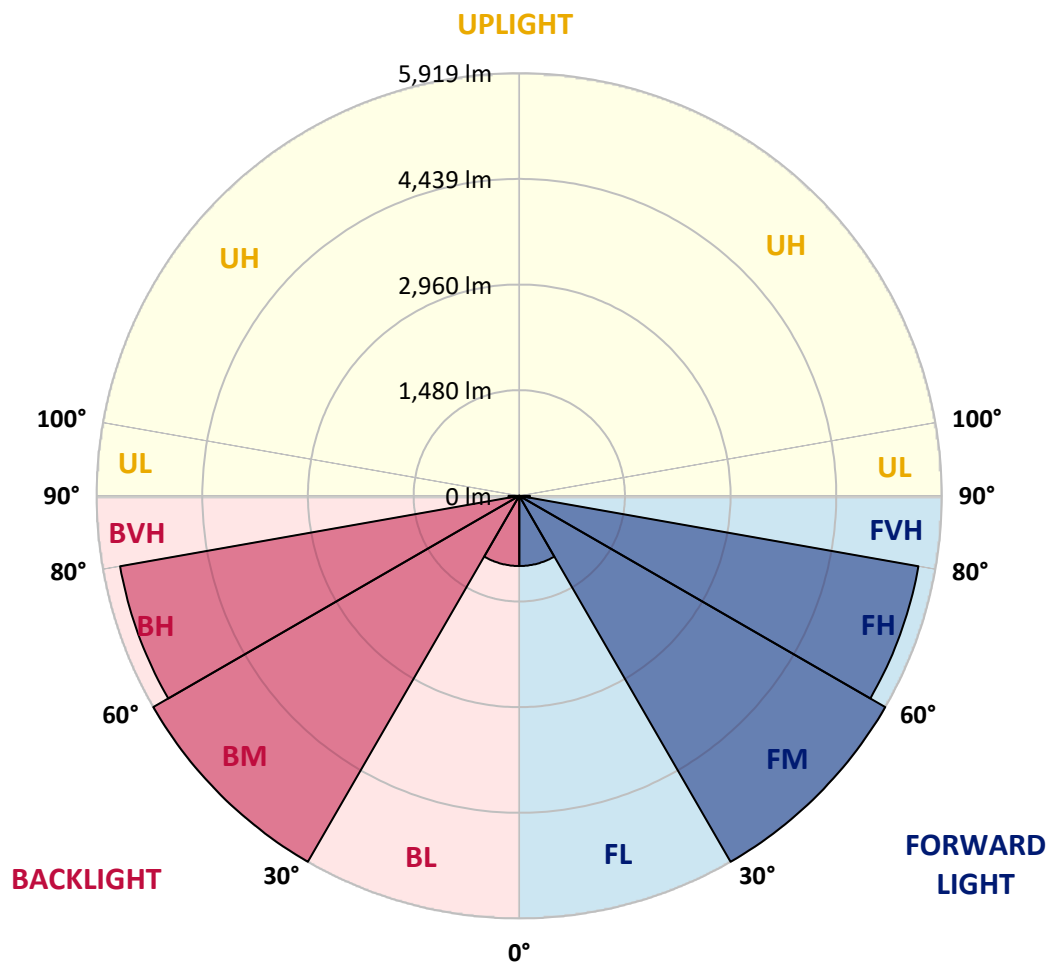
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	983.0	3.9			
FM	(30°-60°)	5919.1	23.3			
FH	(60°-80°)	5677.1	22.3			G3/7500
FVH	(80°-90°)	149.4	0.6			G2/225
BL	(0°-30°)	983.0	3.9	B2/1000		
BM	(30°-60°)	5919.1	23.3	B4/8500		
BH	(60°-80°)	5677.1	22.3	B5		G3/7500
BVH	(80°-90°)	149.4	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°	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6
2.5°	1798.3	1798.3	1793.5	1793.5	1784.1	1779.3	1774.6	1774.6	1769.9	1769.9	1765.1
5°	1807.7	1807.7	1807.7	1803.0	1798.3	1793.5	1784.1	1774.6	1769.9	1765.1	1760.4
7.5°	1812.5	1812.5	1807.7	1807.7	1803.0	1798.3	1784.1	1769.9	1765.1	1760.4	1760.4
10°	1850.3	1845.6	1840.8	1831.4	1831.4	1831.4	1812.5	1798.3	1793.5	1793.5	1793.5
12.5°	1940.2	1935.5	1926.0	1911.8	1911.8	1916.6	1888.2	1869.2	1869.2	1864.5	1864.5
15°	2072.7	2068.0	2058.5	2034.9	2030.1	2039.6	1997.0	1978.1	1978.1	1978.1	1973.3
17.5°	2219.4	2210.0	2195.8	2176.8	2176.8	2176.8	2134.2	2110.6	2096.4	2096.4	2091.7
20°	2342.5	2337.7	2337.7	2333.0	2347.2	2347.2	2290.4	2252.6	2219.4	2200.5	2195.8
22.5°	2451.3	2446.6	2456.0	2475.0	2503.4	2512.8	2446.6	2389.8	2337.7	2299.9	2290.4
25°	2598.0	2593.3	2588.5	2616.9	2664.3	2678.5	2607.5	2536.5	2484.4	2465.5	2456.0
27.5°	2754.2	2758.9	2763.6	2792.0	2829.9	2853.5	2782.6	2716.3	2673.7	2645.3	2635.9
30°	2929.3	2938.7	2952.9	2995.5	3023.9	3033.4	2971.9	2924.5	2886.7	2863.0	2848.8
32.5°	3151.7	3170.6	3189.5	3227.4	3241.6	3232.1	3203.7	3170.6	3142.2	3109.1	3104.4
35°	3482.9	3501.9	3497.1	3511.3	3516.1	3506.6	3492.4	3473.5	3459.3	3416.7	3412.0
37.5°	3899.4	3918.3	3889.9	3875.7	3842.6	3847.3	3842.6	3856.8	3861.5	3818.9	3814.2
40°	4320.5	4339.5	4301.6	4263.8	4230.6	4216.4	4240.1	4287.4	4287.4	4259.0	4259.0
42.5°	4770.1	4784.3	4722.8	4675.5	4632.9	4623.4	4637.6	4694.4	4708.6	4703.9	4703.9
45°	5219.7	5210.2	5129.8	5082.4	5044.6	5020.9	5025.6	5068.2	5096.6	5110.8	5110.8
47.5°	5565.1	5550.9	5484.7	5446.8	5423.2	5390.0	5390.0	5413.7	5427.9	5432.6	5432.6
50°	5839.6	5825.4	5759.1	5754.4	5754.4	5740.2	5726.0	5721.3	5711.8	5716.6	5716.6
52.5°	6076.2	6057.3	6010.0	6019.4	6062.0	6071.5	6052.5	6014.7	5976.8	5962.6	5967.4
55°	6331.7	6303.4	6265.5	6293.9	6379.1	6416.9	6388.5	6312.8	6246.6	6204.0	6204.0
57.5°	6535.2	6502.1	6502.1	6582.6	6738.7	6814.4	6752.9	6611.0	6497.4	6450.1	6454.8
60°	6393.3	6364.9	6478.4	6833.4	7126.8	7254.5	7150.4	6899.6	6715.1	6658.3	6667.7
62.5°	6114.1	6095.1	6237.1	6786.0	7477.0	7742.0	7585.8	7226.1	6951.7	6885.4	6885.4
65°	5702.4	5697.6	5896.4	6573.1	7557.4	8210.5	8077.9	7581.1	7226.1	7136.2	7155.2
67.5°	5276.5	5276.5	5456.3	6208.7	7462.8	8409.2	8513.3	7902.9	7358.6	7136.2	7141.0
70°	4524.0	4604.5	5082.4	5872.7	7117.3	8267.2	8693.1	7675.7	6781.3	6388.5	6374.3
72.5°	2981.3	3085.4	4036.6	5285.9	6776.6	7751.4	7846.1	6743.5	5631.4	5172.3	5148.7
75°	1798.3	1888.2	2616.9	4126.5	5957.9	6241.8	5825.4	5285.9	4207.0	3847.3	3847.3
77.5°	530.0	591.5	1206.7	2616.9	4121.8	4102.9	3591.8	3113.8	2489.2	2115.3	2143.7
80°	312.3	321.8	392.8	1192.5	1708.3	1798.3	1386.5	866.0	866.0	643.6	624.7
82.5°	241.3	241.3	250.8	298.1	411.7	459.0	350.2	298.1	340.7	288.7	274.5
85°	170.4	170.4	170.4	175.1	179.8	184.6	194.0	198.8	217.7	179.8	170.4
87.5°	52.1	56.8	61.5	71.0	85.2	89.9	94.6	85.2	85.2	80.4	75.7
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)