

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: P841216

Luminaire Tested: **ARCH4-150-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841216
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: ARCH4-150-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21214 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

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



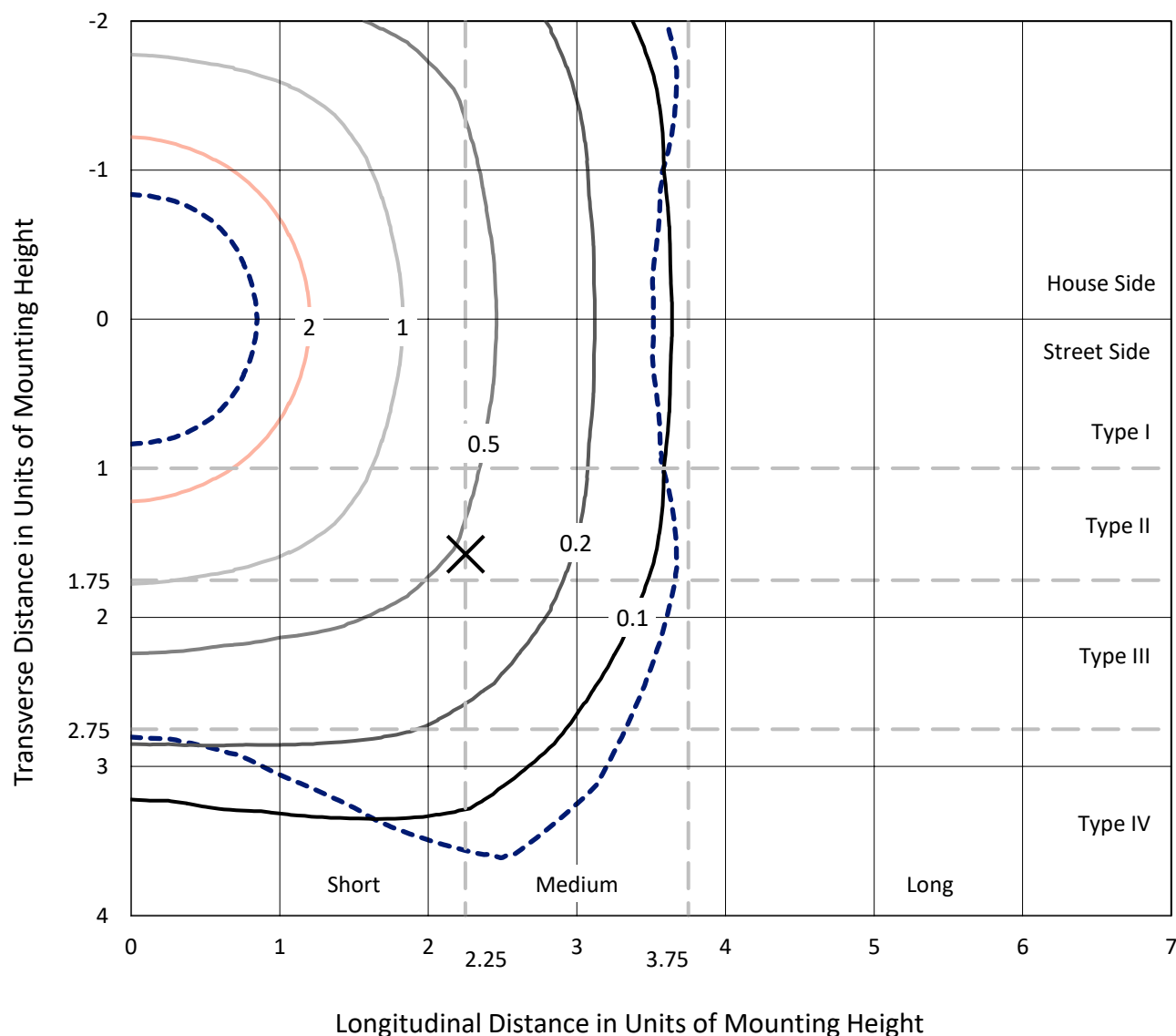
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

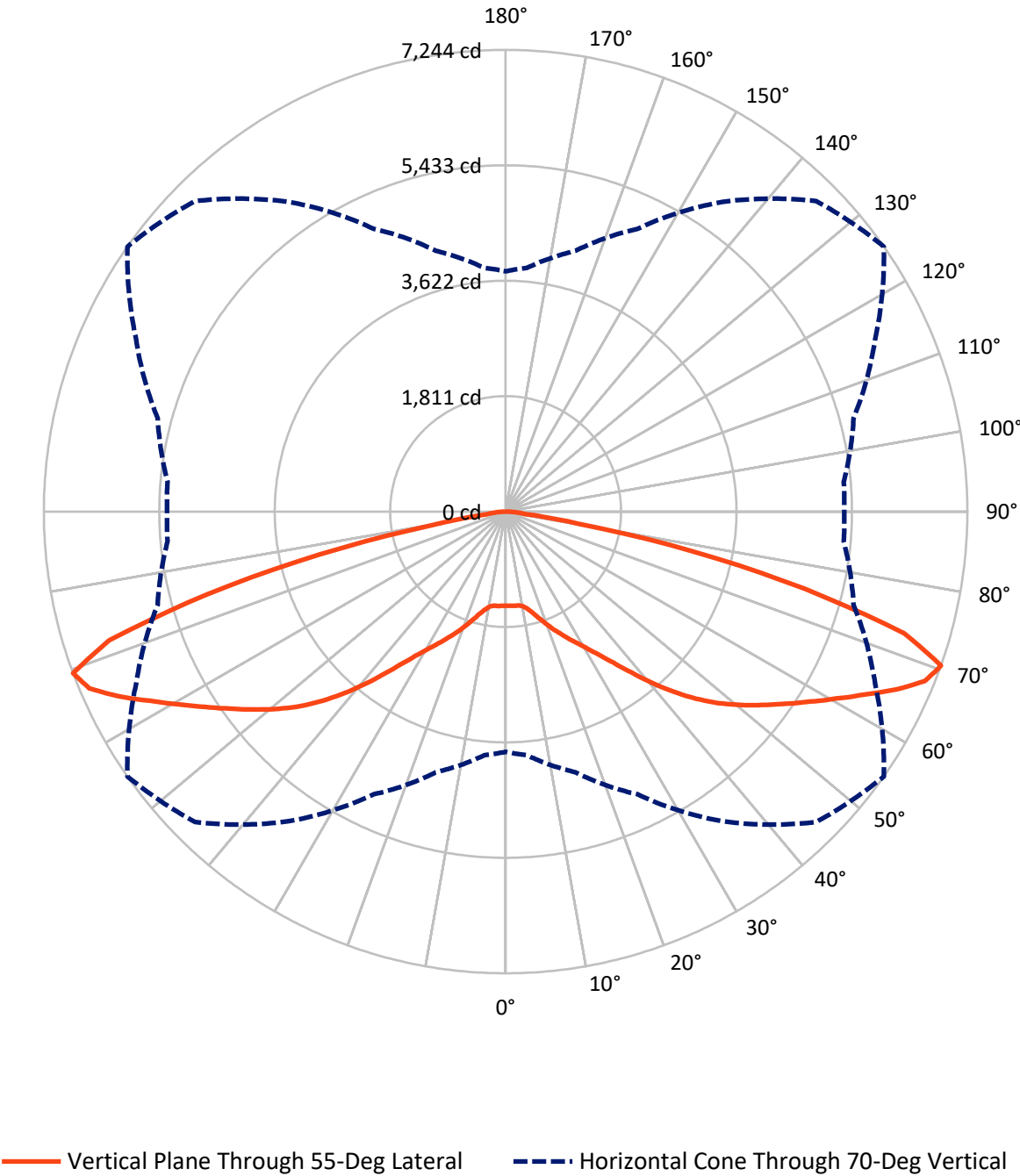
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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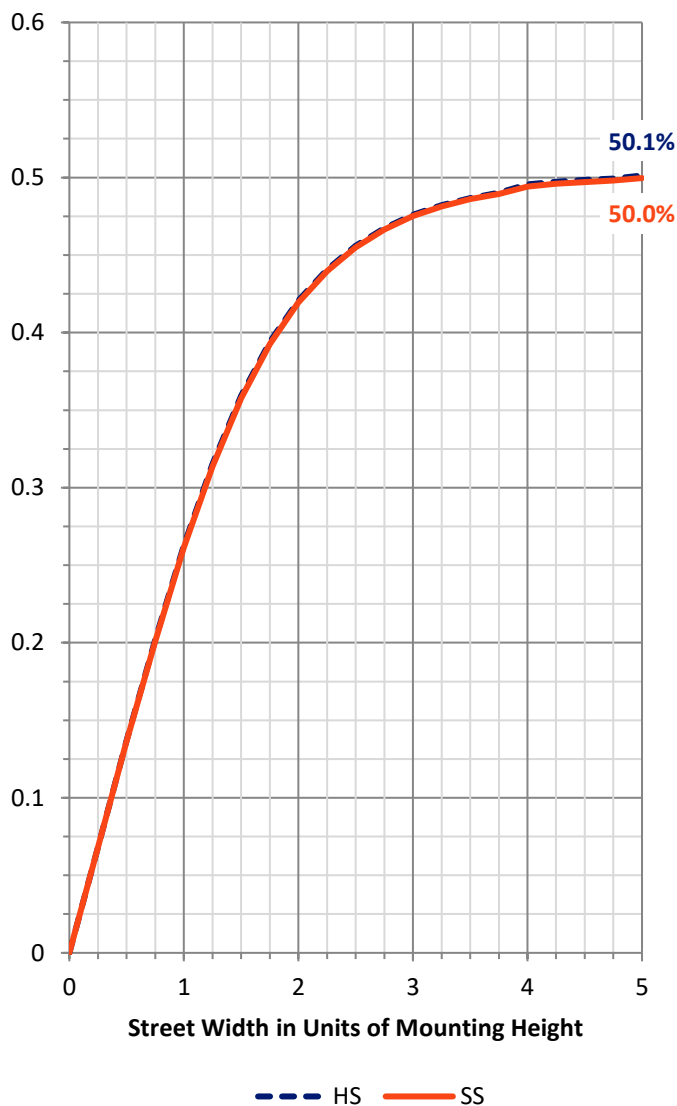
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10607.0	0.0	10607.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10607.0	0.0	10607.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21214.0	0.0	21214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	0.7
10°-20°	485.9	2.3
20°-30°	1009.6	4.8
30°-40°	1864.7	8.8
40°-50°	3275.8	15.4
50°-60°	4724.5	22.3
60°-70°	5782.3	27.3
70°-80°	3679.4	17.3
80°-90°	249.0	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°	21214.0	100.0
0°-180°	21214.0	100.0

Coefficient of Utilization



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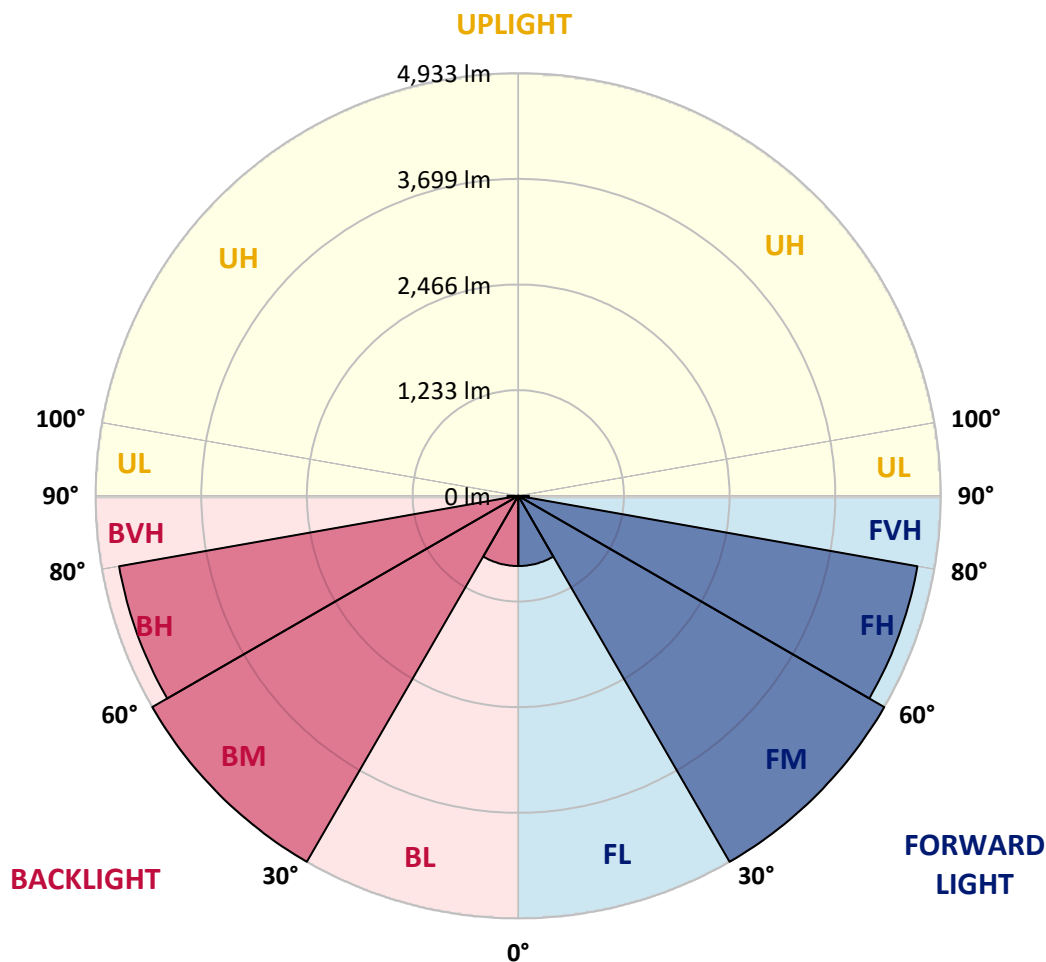
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.1	3.9			
FM	(30°-60°)	4932.5	23.3			
FH	(60°-80°)	4730.9	22.3			G2/5000
FVH	(80°-90°)	124.5	0.6			G2/225
BL	(0°-30°)	819.1	3.9	B2/1000		
BM	(30°-60°)	4932.5	23.3	B3/5000		
BH	(60°-80°)	4730.9	22.3	B4/5000		G2/5000
BVH	(80°-90°)	124.5	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°	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8
2.5°	1498.5	1498.5	1494.6	1494.6	1486.7	1482.8	1478.8	1478.8	1474.9	1474.9	1470.9
5°	1506.4	1506.4	1506.4	1502.5	1498.5	1494.6	1486.7	1478.8	1474.9	1470.9	1467.0
7.5°	1510.4	1510.4	1506.4	1506.4	1502.5	1498.5	1486.7	1474.9	1470.9	1467.0	1467.0
10°	1541.9	1538.0	1534.0	1526.1	1526.1	1526.1	1510.4	1498.5	1494.6	1494.6	1494.6
12.5°	1616.8	1612.9	1605.0	1593.2	1593.2	1597.1	1573.5	1557.7	1557.7	1553.7	1553.7
15°	1727.3	1723.3	1715.4	1695.7	1691.8	1699.7	1664.2	1648.4	1648.4	1648.4	1644.4
17.5°	1849.5	1841.6	1829.8	1814.0	1814.0	1814.0	1778.5	1758.8	1747.0	1747.0	1743.0
20°	1952.0	1948.1	1948.1	1944.2	1956.0	1956.0	1908.7	1877.1	1849.5	1833.7	1829.8
22.5°	2042.7	2038.8	2046.7	2062.5	2086.1	2094.0	2038.8	1991.5	1948.1	1916.5	1908.7
25°	2165.0	2161.0	2157.1	2180.8	2220.2	2232.0	2172.9	2113.7	2070.3	2054.6	2046.7
27.5°	2295.1	2299.1	2303.0	2326.7	2358.2	2377.9	2318.8	2263.6	2228.1	2204.4	2196.5
30°	2441.0	2448.9	2460.7	2496.2	2519.9	2527.8	2476.5	2437.1	2405.5	2385.8	2374.0
32.5°	2626.4	2642.2	2657.9	2689.5	2701.3	2693.4	2669.8	2642.2	2618.5	2590.9	2586.9
35°	2902.4	2918.2	2914.3	2926.1	2930.0	2922.1	2910.3	2894.5	2882.7	2847.2	2843.3
37.5°	3249.5	3265.2	3241.6	3229.7	3202.1	3206.1	3202.1	3214.0	3217.9	3182.4	3178.5
40°	3600.4	3616.2	3584.6	3553.1	3525.5	3513.7	3533.4	3572.8	3572.8	3549.2	3549.2
42.5°	3975.1	3986.9	3935.6	3896.2	3860.7	3852.8	3864.6	3912.0	3923.8	3919.8	3919.8
45°	4349.7	4341.8	4274.8	4235.3	4203.8	4184.1	4188.0	4223.5	4247.2	4259.0	4259.0
47.5°	4637.6	4625.7	4570.5	4539.0	4519.3	4491.7	4491.7	4511.4	4523.2	4527.1	4527.1
50°	4866.3	4854.5	4799.3	4795.3	4795.3	4783.5	4771.6	4767.7	4759.8	4763.8	4763.8
52.5°	5063.5	5047.7	5008.3	5016.1	5051.6	5059.5	5043.7	5012.2	4980.7	4968.8	4972.8
55°	5276.4	5252.8	5221.2	5244.9	5315.9	5347.4	5323.7	5260.6	5205.4	5169.9	5169.9
57.5°	5446.0	5418.4	5418.4	5485.4	5615.6	5678.7	5627.4	5509.1	5414.4	5375.0	5378.9
60°	5327.7	5304.0	5398.7	5694.4	5938.9	6045.4	5958.6	5749.6	5595.8	5548.5	5556.4
62.5°	5095.0	5079.2	5197.5	5655.0	6230.7	6451.6	6321.4	6021.7	5793.0	5737.8	5737.8
65°	4751.9	4748.0	4913.6	5477.5	6297.8	6842.0	6731.6	6317.5	6021.7	5946.8	5962.6
67.5°	4397.0	4397.0	4546.9	5173.9	6218.9	7007.6	7094.4	6585.7	6132.2	5946.8	5950.8
70°	3770.0	3837.0	4235.3	4893.9	5931.0	6889.3	7244.2	6396.4	5651.0	5323.7	5311.9
72.5°	2484.4	2571.2	3363.8	4404.9	5647.1	6459.5	6538.3	5619.5	4692.8	4310.3	4290.5
75°	1498.5	1573.5	2180.8	3438.7	4964.9	5201.5	4854.5	4404.9	3505.8	3206.1	3206.1
77.5°	441.7	492.9	1005.6	2180.8	3434.8	3419.0	2993.1	2594.8	2074.3	1762.7	1786.4
80°	260.3	268.2	327.3	993.8	1423.6	1498.5	1155.4	721.7	721.7	536.3	520.5
82.5°	201.1	201.1	209.0	248.4	343.1	382.5	291.8	248.4	283.9	240.6	228.7
85°	142.0	142.0	142.0	145.9	149.9	153.8	161.7	165.6	181.4	149.9	142.0
87.5°	43.4	47.3	51.3	59.2	71.0	74.9	78.9	71.0	71.0	67.0	63.1
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)