

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: P841162

Luminaire Tested: **ARCH4-140-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841162
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: ARCH4-140-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22939 lumens
Efficiency: N/A
Efficacy: 162.3 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): 141.3
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

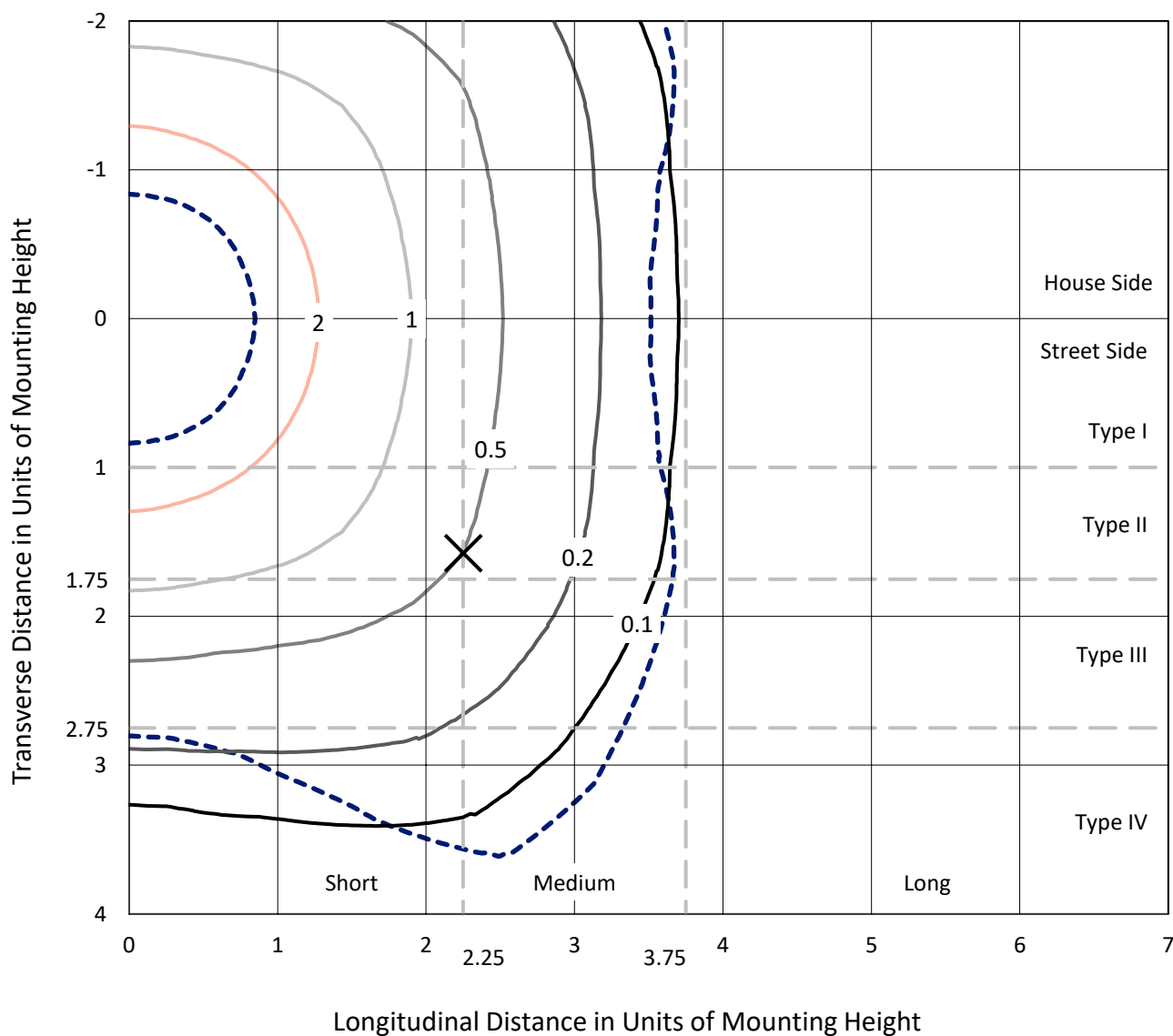


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Iso-Footcandle Lines of Horizontal Illumination

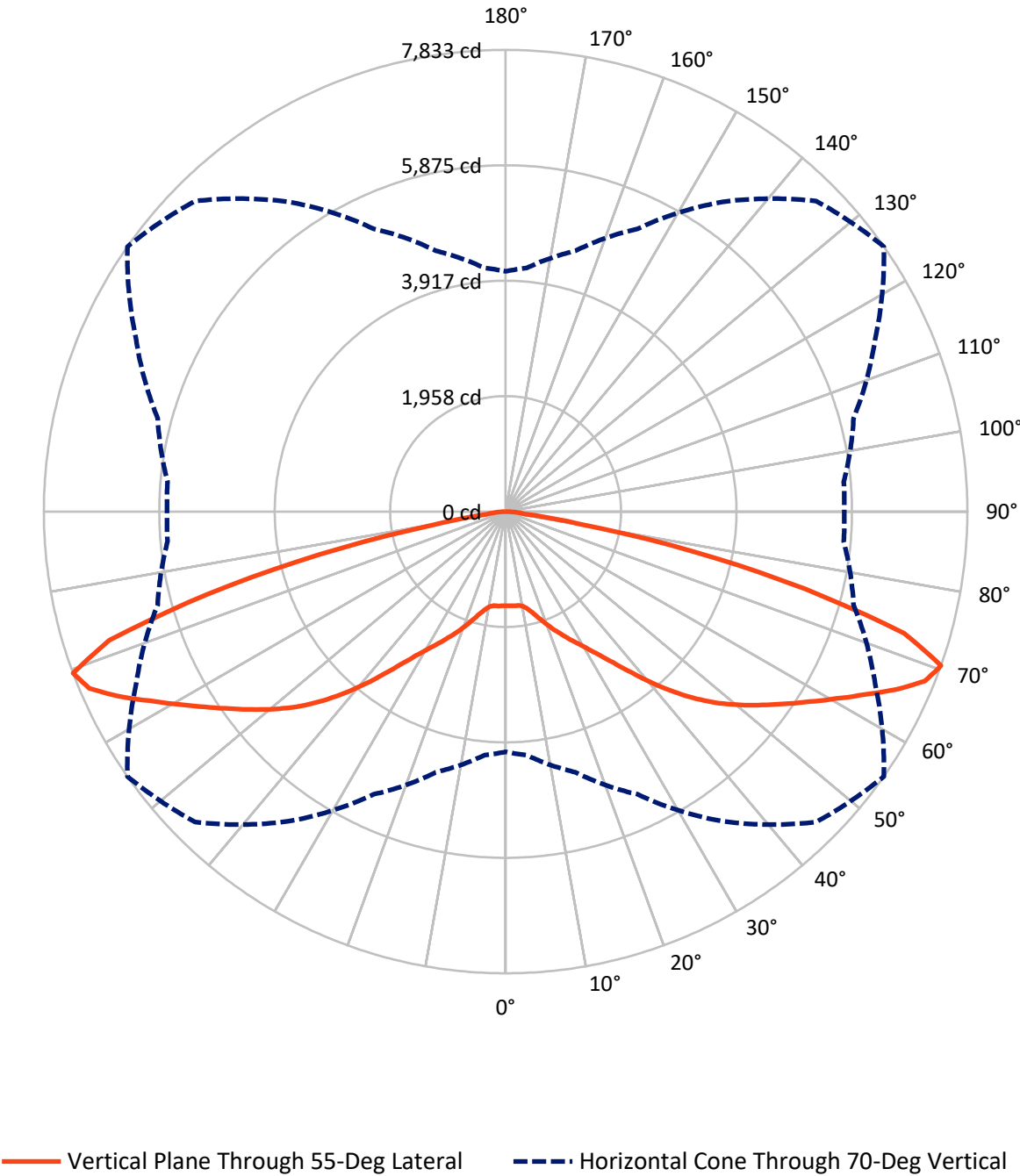
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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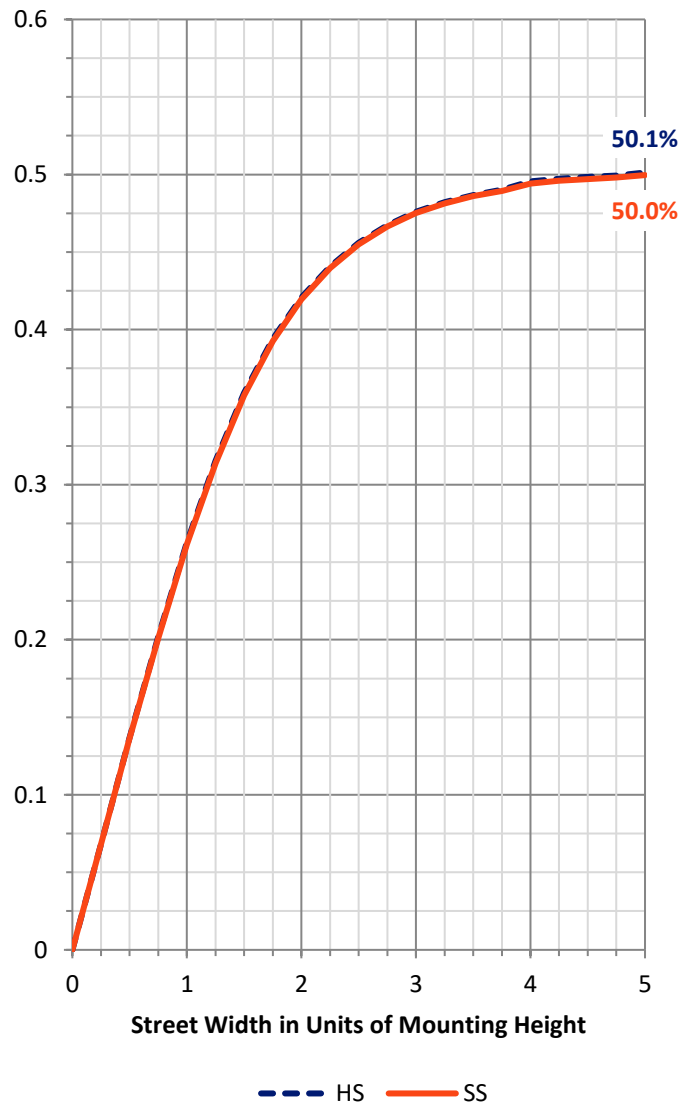
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11469.5	0.0	11469.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11469.5	0.0	11469.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22939.0	0.0	22939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	0.7
10°-20°	525.4	2.3
20°-30°	1091.7	4.8
30°-40°	2016.3	8.8
40°-50°	3542.2	15.4
50°-60°	5108.7	22.3
60°-70°	6252.5	27.3
70°-80°	3978.6	17.3
80°-90°	269.2	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°	22939.0	100.0
0°-180°	22939.0	100.0

Coefficient of Utilization



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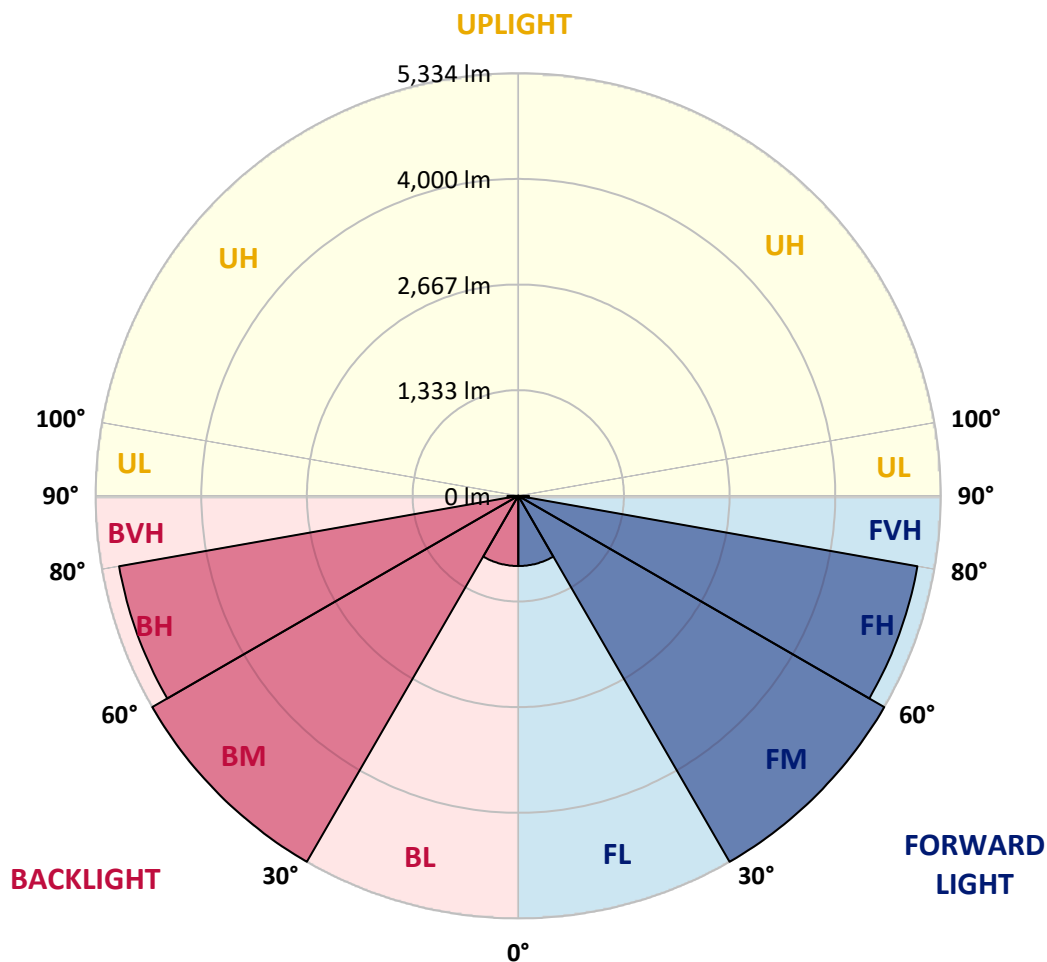
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.7	3.9			
FM	(30°-60°)	5333.6	23.3			
FH	(60°-80°)	5115.6	22.3			G3/7500
FVH	(80°-90°)	134.6	0.6			G2/225
BL	(0°-30°)	885.7	3.9	B2/1000		
BM	(30°-60°)	5333.6	23.3	B4/8500		
BH	(60°-80°)	5115.6	22.3	B5		G3/7500
BVH	(80°-90°)	134.6	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°	1599.1	1599.1	1599.1	1599.1	1599.1	1599.1	1599.1	1599.1	1599.1	1599.1	1599.1
2.5°	1620.4	1620.4	1616.1	1616.1	1607.6	1603.3	1599.1	1599.1	1594.8	1594.8	1590.5
5°	1628.9	1628.9	1628.9	1624.6	1620.4	1616.1	1607.6	1599.1	1594.8	1590.5	1586.3
7.5°	1633.2	1633.2	1628.9	1628.9	1624.6	1620.4	1607.6	1594.8	1590.5	1586.3	1586.3
10°	1667.3	1663.0	1658.8	1650.2	1650.2	1650.2	1633.2	1620.4	1616.1	1616.1	1616.1
12.5°	1748.3	1744.0	1735.5	1722.7	1722.7	1727.0	1701.4	1684.3	1684.3	1680.1	1680.1
15°	1867.7	1863.4	1854.9	1833.6	1829.3	1837.9	1799.5	1782.4	1782.4	1782.4	1778.2
17.5°	1999.9	1991.4	1978.6	1961.5	1961.5	1961.5	1923.1	1901.8	1889.0	1889.0	1884.8
20°	2110.8	2106.5	2106.5	2102.2	2115.0	2115.0	2063.9	2029.7	1999.9	1982.8	1978.6
22.5°	2208.8	2204.6	2213.1	2230.2	2255.7	2264.3	2204.6	2153.4	2106.5	2072.4	2063.9
25°	2341.0	2336.8	2332.5	2358.1	2400.7	2413.5	2349.6	2285.6	2238.7	2221.6	2213.1
27.5°	2481.7	2486.0	2490.3	2515.9	2550.0	2571.3	2507.3	2447.6	2409.3	2383.7	2375.1
30°	2639.5	2648.1	2660.8	2699.2	2724.8	2733.3	2677.9	2635.3	2601.1	2579.8	2567.0
32.5°	2839.9	2857.0	2874.1	2908.2	2921.0	2912.4	2886.8	2857.0	2831.4	2801.6	2797.3
35°	3138.4	3155.5	3151.2	3164.0	3168.3	3159.8	3147.0	3129.9	3117.1	3078.7	3074.5
37.5°	3513.7	3530.7	3505.1	3492.4	3462.5	3466.8	3462.5	3475.3	3479.6	3441.2	3436.9
40°	3893.2	3910.2	3876.1	3842.0	3812.2	3799.4	3820.7	3863.3	3863.3	3837.8	3837.8
42.5°	4298.3	4311.1	4255.6	4213.0	4174.6	4166.1	4178.9	4230.1	4242.9	4238.6	4238.6
45°	4703.4	4694.9	4622.4	4579.7	4545.6	4524.3	4528.6	4566.9	4592.5	4605.3	4605.3
47.5°	5014.7	5001.9	4942.2	4908.1	4886.7	4856.9	4856.9	4878.2	4891.0	4895.3	4895.3
50°	5262.0	5249.2	5189.5	5185.2	5185.2	5172.4	5159.6	5155.4	5146.9	5151.1	5151.1
52.5°	5475.2	5458.1	5415.5	5424.0	5462.4	5470.9	5453.9	5419.8	5385.6	5372.9	5377.1
55°	5705.5	5679.9	5645.8	5671.3	5748.1	5782.2	5756.6	5688.4	5628.7	5590.3	5590.3
57.5°	5888.8	5859.0	5859.0	5931.5	6072.2	6140.4	6085.0	5957.0	5854.7	5812.1	5816.3
60°	5760.9	5735.3	5837.7	6157.5	6421.8	6537.0	6443.2	6217.2	6050.9	5999.7	6008.2
62.5°	5509.3	5492.3	5620.2	6114.8	6737.4	6976.2	6835.5	6511.4	6264.1	6204.4	6204.4
65°	5138.3	5134.1	5313.2	5922.9	6809.9	7398.3	7278.9	6831.2	6511.4	6430.4	6447.4
67.5°	4754.6	4754.6	4916.6	5594.6	6724.6	7577.4	7671.2	7121.2	6630.8	6430.4	6434.6
70°	4076.5	4149.0	4579.7	5291.8	6413.3	7449.5	7833.3	6916.5	6110.6	5756.6	5743.8
72.5°	2686.4	2780.2	3637.3	4763.1	6106.3	6984.7	7070.0	6076.4	5074.4	4660.7	4639.4
75°	1620.4	1701.4	2358.1	3718.4	5368.6	5624.4	5249.2	4763.1	3790.8	3466.8	3466.8
77.5°	477.6	533.0	1087.4	2358.1	3714.1	3697.0	3236.5	2805.8	2243.0	1906.1	1931.7
80°	281.4	290.0	353.9	1074.6	1539.4	1620.4	1249.4	780.3	780.3	579.9	562.9
82.5°	217.5	217.5	226.0	268.6	371.0	413.6	315.5	268.6	307.0	260.1	247.3
85°	153.5	153.5	153.5	157.8	162.0	166.3	174.8	179.1	196.2	162.0	153.5
87.5°	46.9	51.2	55.4	64.0	76.8	81.0	85.3	76.8	76.8	72.5	68.2
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)