

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: P841225

Luminaire Tested: **ARCH4-150-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841225
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: ARCH4-150-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23396 lumens
Efficiency: N/A
Efficacy: 155.1 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

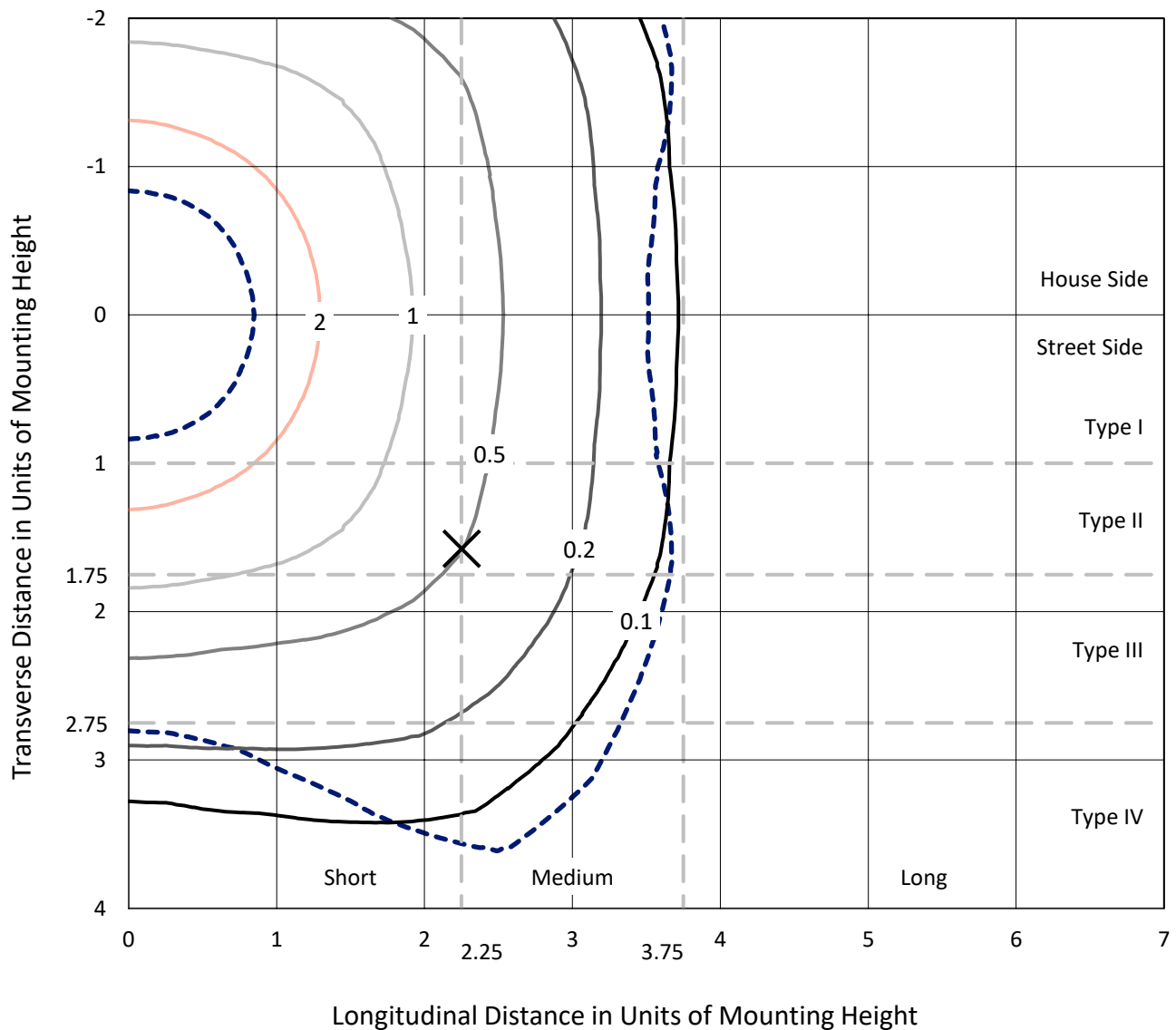


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Iso-Footcandle Lines of Horizontal Illumination

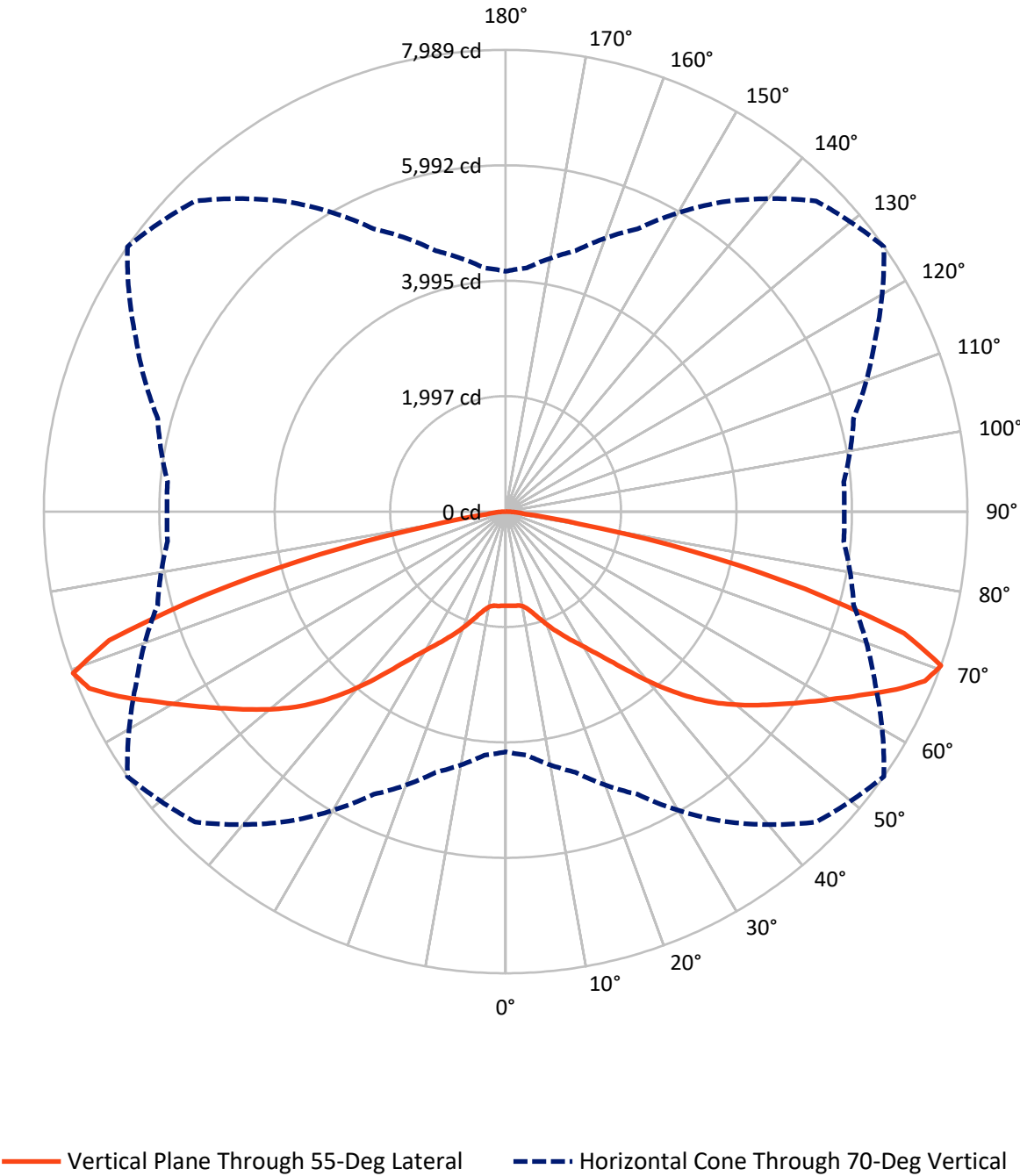
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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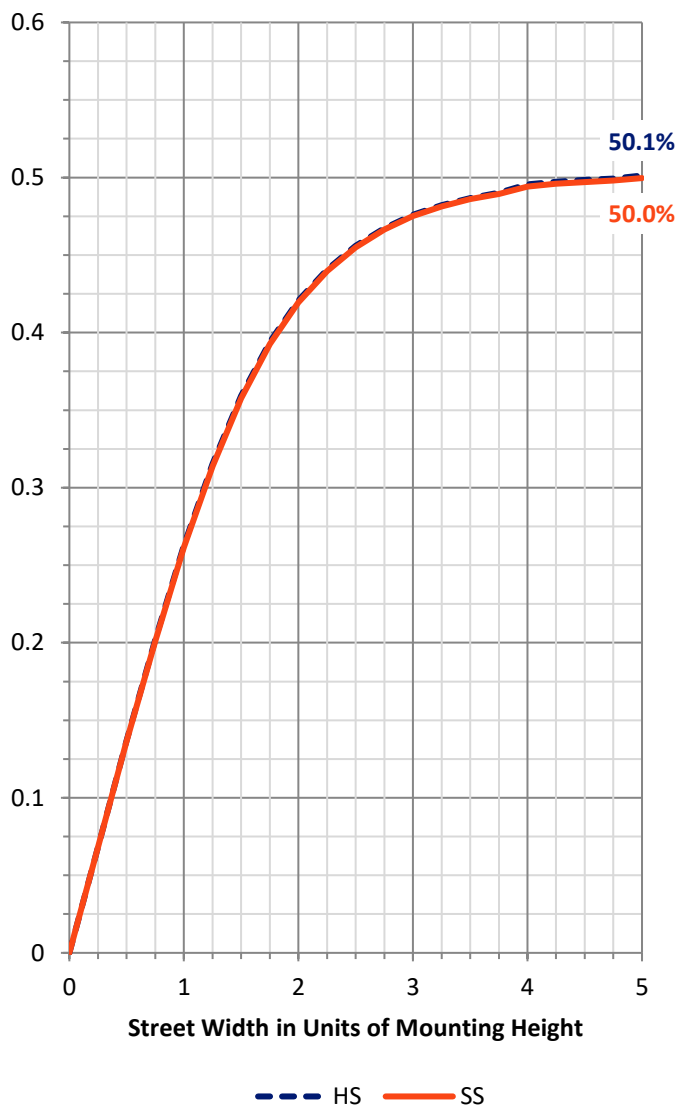
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11698.0	0.0	11698.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11698.0	0.0	11698.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23396.0	0.0	23396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	0.7
10°-20°	535.9	2.3
20°-30°	1113.5	4.8
30°-40°	2056.5	8.8
40°-50°	3612.8	15.4
50°-60°	5210.5	22.3
60°-70°	6377.1	27.3
70°-80°	4057.9	17.3
80°-90°	274.6	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°	23396.0	100.0
0°-180°	23396.0	100.0

Coefficient of Utilization



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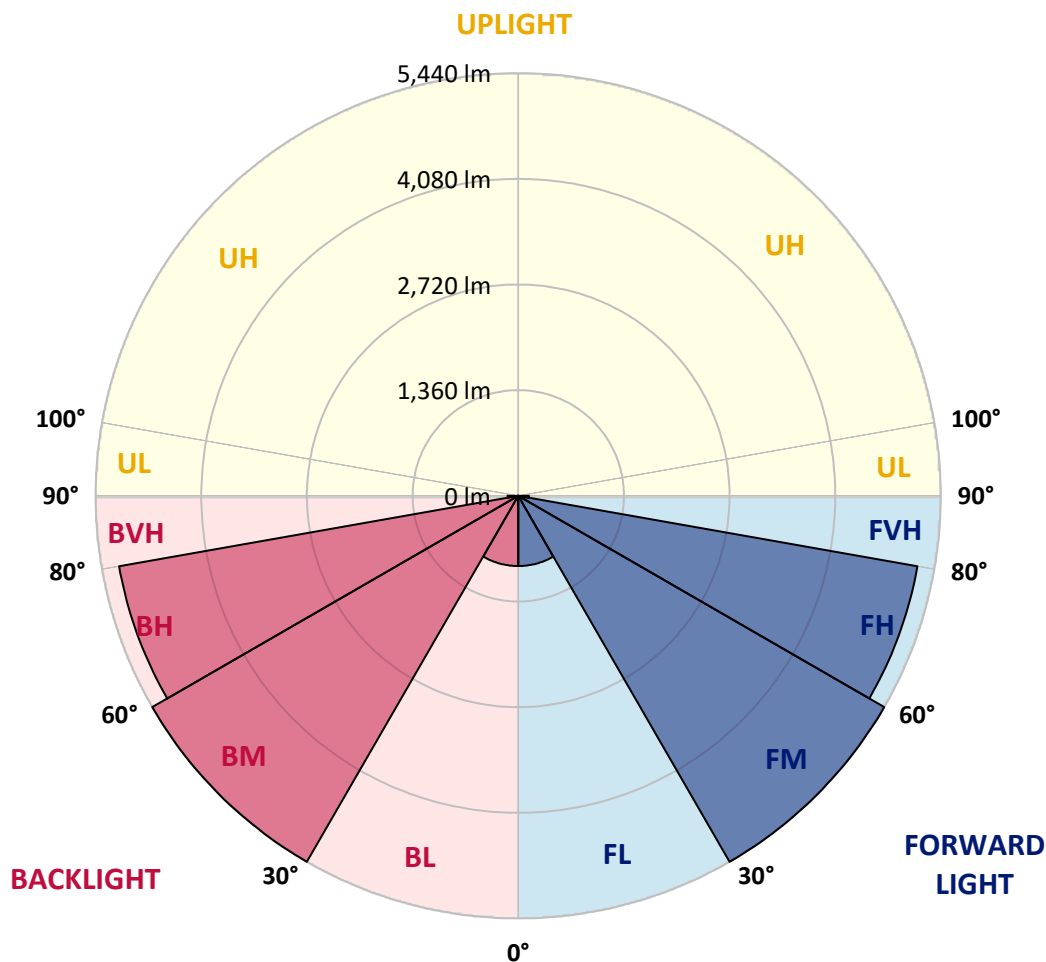
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.4	3.9			
FM	(30°-60°)	5439.9	23.3			
FH	(60°-80°)	5217.5	22.3			G3/7500
FVH	(80°-90°)	137.3	0.6			G2/225
BL	(0°-30°)	903.4	3.9	B2/1000		
BM	(30°-60°)	5439.9	23.3	B4/8500		
BH	(60°-80°)	5217.5	22.3	B5		G3/7500
BVH	(80°-90°)	137.3	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°	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9
2.5°	1652.7	1652.7	1648.3	1648.3	1639.6	1635.3	1630.9	1630.9	1626.6	1626.6	1622.2
5°	1661.4	1661.4	1661.4	1657.0	1652.7	1648.3	1639.6	1630.9	1626.6	1622.2	1617.9
7.5°	1665.7	1665.7	1661.4	1661.4	1657.0	1652.7	1639.6	1626.6	1622.2	1617.9	1617.9
10°	1700.5	1696.2	1691.8	1683.1	1683.1	1683.1	1665.7	1652.7	1648.3	1648.3	1648.3
12.5°	1783.1	1778.8	1770.1	1757.0	1757.0	1761.4	1735.3	1717.9	1717.9	1713.6	1713.6
15°	1904.9	1900.6	1891.9	1870.1	1865.8	1874.5	1835.3	1817.9	1817.9	1817.9	1813.6
17.5°	2039.7	2031.0	2018.0	2000.6	2000.6	2000.6	1961.5	1939.7	1926.7	1926.7	1922.3
20°	2152.8	2148.5	2148.5	2144.1	2157.2	2157.2	2105.0	2070.2	2039.7	2022.3	2018.0
22.5°	2252.8	2248.5	2257.2	2274.6	2300.7	2309.4	2248.5	2196.3	2148.5	2113.7	2105.0
25°	2387.7	2383.3	2379.0	2405.1	2448.6	2461.6	2396.4	2331.1	2283.3	2265.9	2257.2
27.5°	2531.2	2535.5	2539.9	2566.0	2600.8	2622.5	2557.3	2496.4	2457.3	2431.2	2422.5
30°	2692.1	2700.8	2713.9	2753.0	2779.1	2787.8	2731.3	2687.8	2653.0	2631.2	2618.2
32.5°	2896.5	2913.9	2931.3	2966.1	2979.2	2970.5	2944.4	2913.9	2887.8	2857.4	2853.0
35°	3201.0	3218.4	3214.0	3227.1	3231.4	3222.7	3209.7	3192.3	3179.2	3140.1	3135.7
37.5°	3583.7	3601.1	3575.0	3561.9	3531.5	3535.8	3531.5	3544.5	3548.9	3509.7	3505.4
40°	3970.8	3988.1	3953.4	3918.6	3888.1	3875.1	3896.8	3940.3	3940.3	3914.2	3914.2
42.5°	4383.9	4397.0	4340.4	4296.9	4257.8	4249.1	4262.1	4314.3	4327.4	4323.0	4323.0
45°	4797.1	4788.4	4714.5	4671.0	4636.2	4614.4	4618.8	4657.9	4684.0	4697.1	4697.1
47.5°	5114.6	5101.5	5040.6	5005.8	4984.1	4953.7	4953.7	4975.4	4988.4	4992.8	4992.8
50°	5366.8	5353.8	5292.9	5288.5	5288.5	5275.5	5262.4	5258.1	5249.4	5253.7	5253.7
52.5°	5584.3	5566.9	5523.4	5532.1	5571.2	5579.9	5562.5	5527.7	5492.9	5479.9	5484.2
55°	5819.1	5793.0	5758.2	5784.3	5862.6	5897.4	5871.3	5801.7	5740.8	5701.7	5701.7
57.5°	6006.1	5975.7	5975.7	6049.6	6193.2	6262.7	6206.2	6075.7	5971.3	5927.9	5932.2
60°	5875.7	5849.6	5954.0	6280.1	6549.8	6667.2	6571.5	6341.0	6171.4	6119.2	6127.9
62.5°	5619.1	5601.7	5732.1	6236.6	6871.6	7115.2	6971.6	6641.1	6388.9	6328.0	6328.0
65°	5240.7	5236.3	5419.0	6040.9	6945.6	7545.7	7424.0	6967.3	6641.1	6558.5	6575.9
67.5°	4849.3	4849.3	5014.5	5706.1	6858.6	7728.4	7824.1	7263.0	6762.9	6558.5	6562.8
70°	4157.8	4231.7	4671.0	5397.3	6541.1	7597.9	7989.3	7054.3	6232.3	5871.3	5858.3
72.5°	2739.9	2835.6	3709.8	4858.0	6227.9	7123.9	7210.8	6197.5	5175.5	4753.6	4731.8
75°	1652.7	1735.3	2405.1	3792.4	5475.5	5736.5	5353.8	4858.0	3866.4	3535.8	3535.8
77.5°	487.1	543.6	1109.0	2405.1	3788.1	3770.7	3301.0	2861.7	2287.6	1944.1	1970.2
80°	287.0	295.7	361.0	1096.0	1570.0	1652.7	1274.3	795.9	795.9	591.5	574.1
82.5°	221.8	221.8	230.5	274.0	378.4	421.9	321.8	274.0	313.1	265.3	252.2
85°	156.6	156.6	156.6	160.9	165.3	169.6	178.3	182.7	200.1	165.3	156.6
87.5°	47.8	52.2	56.5	65.2	78.3	82.6	87.0	78.3	78.3	73.9	69.6
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)