

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: P841360

Luminaire Tested: **ARCH4-170-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841360
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: ARCH4-170-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23439 lumens
Efficiency: N/A
Efficacy: 138.0 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): 169.8
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



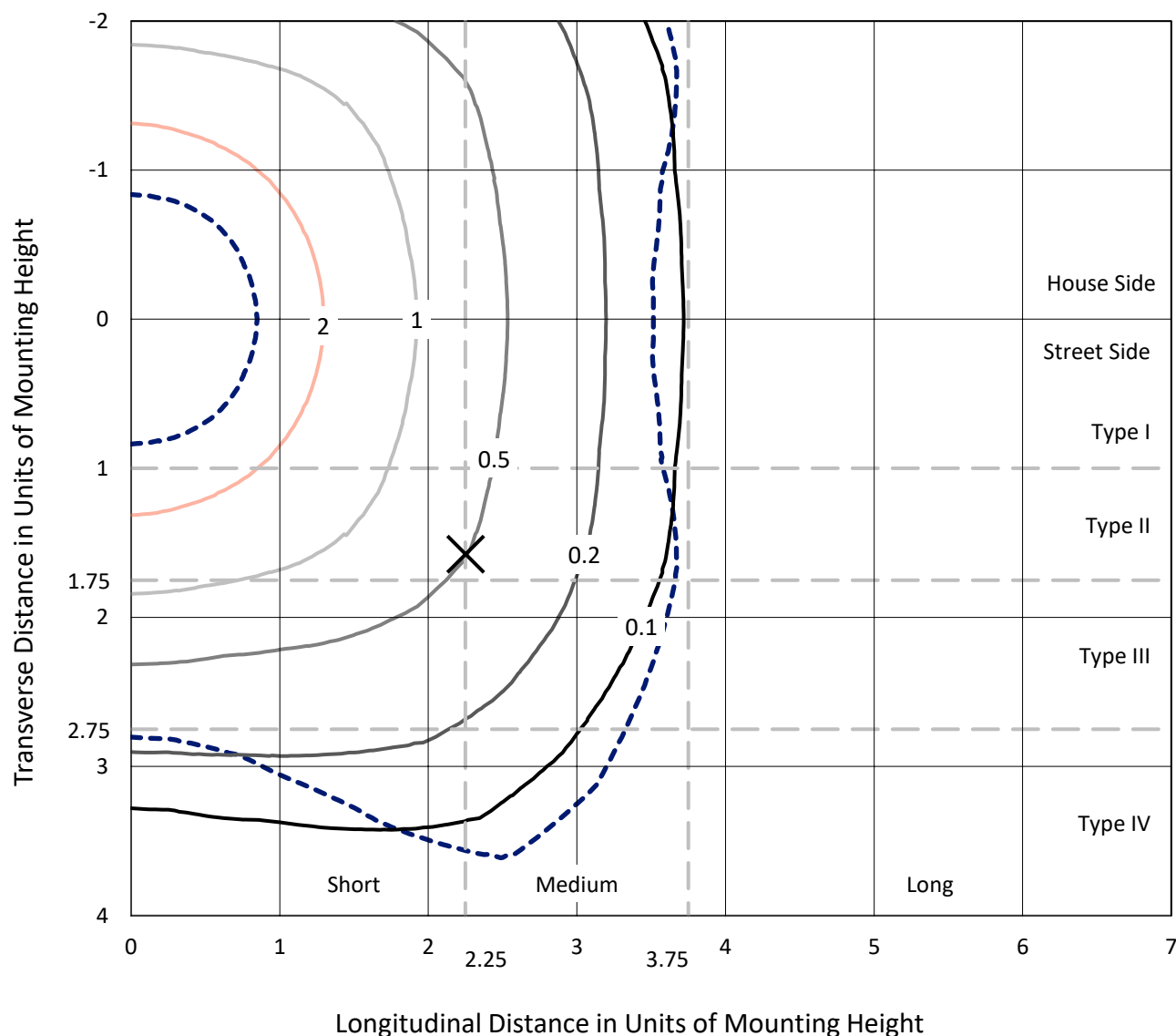
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

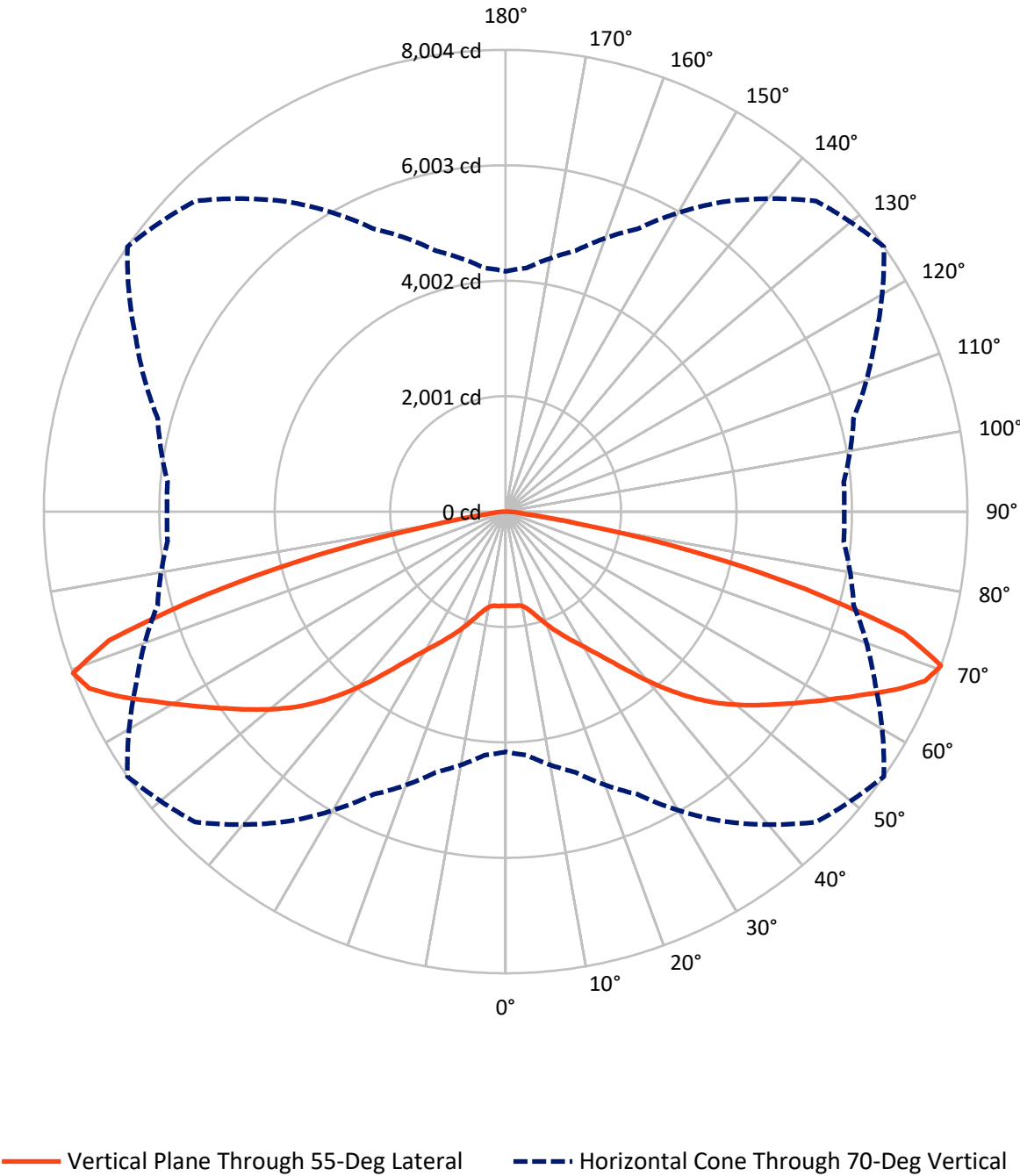
--- 1/2 Max cd



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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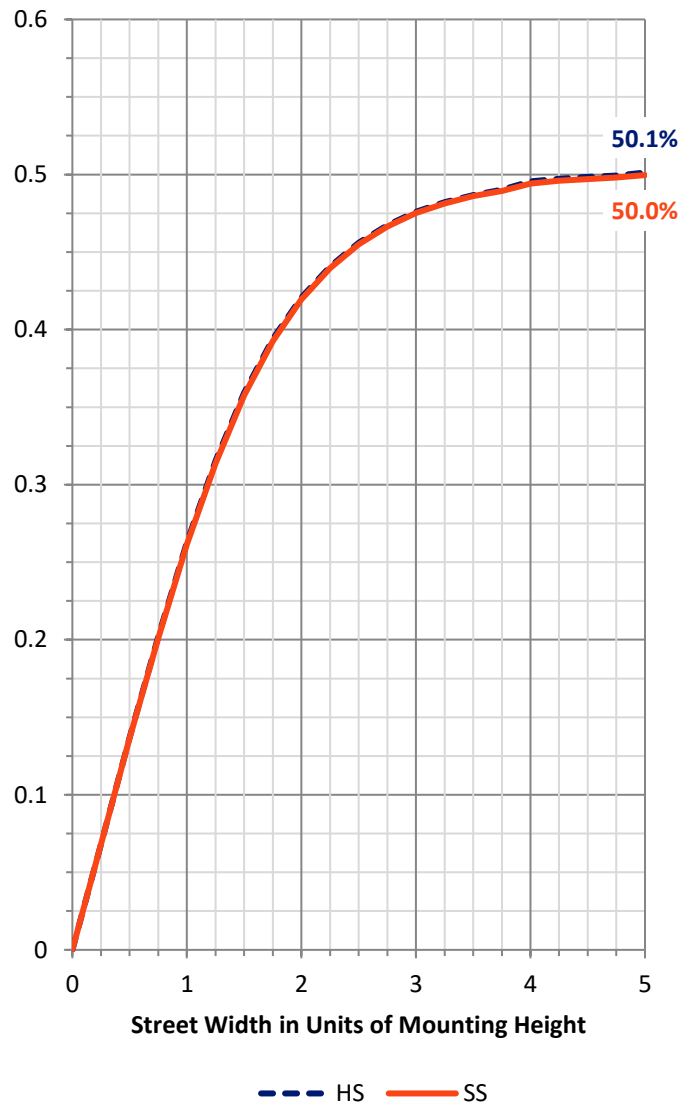
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11719.5	0.0	11719.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11719.5	0.0	11719.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23439.0	0.0	23439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	0.7
10°-20°	536.8	2.3
20°-30°	1115.5	4.8
30°-40°	2060.3	8.8
40°-50°	3619.4	15.4
50°-60°	5220.1	22.3
60°-70°	6388.8	27.3
70°-80°	4065.3	17.3
80°-90°	275.1	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°	23439.0	100.0
0°-180°	23439.0	100.0

Coefficient of Utilization



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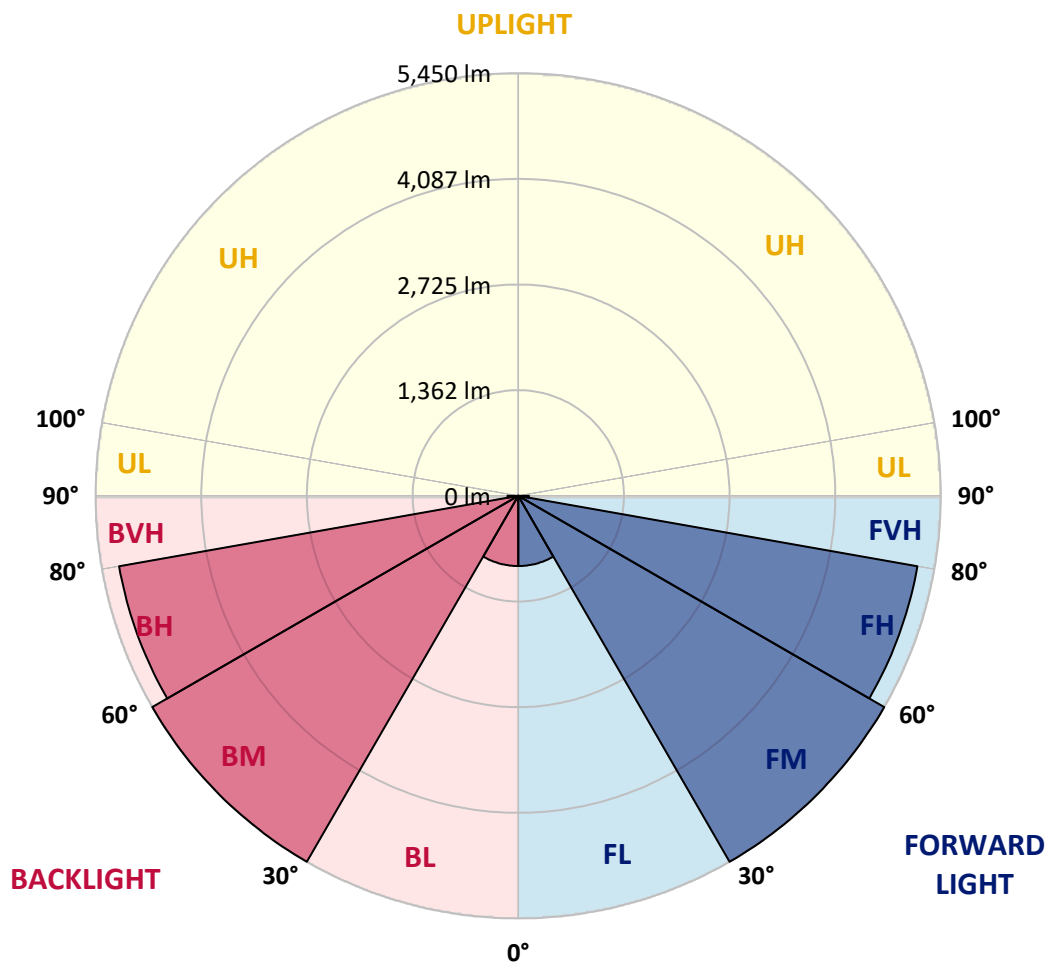
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.0	3.9			
FM	(30°-60°)	5449.9	23.3			
FH	(60°-80°)	5227.1	22.3			G3/7500
FVH	(80°-90°)	137.5	0.6			G2/225
BL	(0°-30°)	905.0	3.9	B2/1000		
BM	(30°-60°)	5449.9	23.3	B4/8500		
BH	(60°-80°)	5227.1	22.3	B5		G3/7500
BVH	(80°-90°)	137.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9	1633.9
2.5°	1655.7	1655.7	1651.3	1651.3	1642.6	1638.3	1633.9	1633.9	1629.6	1629.6	1625.2
5°	1664.4	1664.4	1664.4	1660.1	1655.7	1651.3	1642.6	1633.9	1629.6	1625.2	1620.8
7.5°	1668.8	1668.8	1664.4	1664.4	1660.1	1655.7	1642.6	1629.6	1625.2	1620.8	1620.8
10°	1703.6	1699.3	1694.9	1686.2	1686.2	1686.2	1668.8	1655.7	1651.3	1651.3	1651.3
12.5°	1786.4	1782.1	1773.3	1760.3	1760.3	1764.6	1738.5	1721.1	1721.1	1716.7	1716.7
15°	1908.4	1904.1	1895.3	1873.6	1869.2	1877.9	1838.7	1821.3	1821.3	1821.3	1816.9
17.5°	2043.5	2034.8	2021.7	2004.3	2004.3	2004.3	1965.1	1943.3	1930.2	1930.2	1925.8
20°	2156.8	2152.4	2152.4	2148.1	2161.1	2161.1	2108.8	2074.0	2043.5	2026.1	2021.7
22.5°	2257.0	2252.6	2261.3	2278.8	2304.9	2313.6	2252.6	2200.3	2152.4	2117.6	2108.8
25°	2392.1	2387.7	2383.3	2409.5	2453.1	2466.1	2400.8	2335.4	2287.5	2270.1	2261.3
27.5°	2535.8	2540.2	2544.6	2570.7	2605.6	2627.3	2562.0	2501.0	2461.8	2435.6	2426.9
30°	2697.1	2705.8	2718.8	2758.1	2784.2	2792.9	2736.3	2692.7	2657.8	2636.1	2623.0
32.5°	2901.8	2919.3	2936.7	2971.6	2984.6	2975.9	2949.8	2919.3	2893.1	2862.6	2858.3
35°	3206.8	3224.3	3219.9	3233.0	3237.3	3228.6	3215.6	3198.1	3185.1	3145.8	3141.5
37.5°	3590.3	3607.7	3581.6	3568.5	3538.0	3542.3	3538.0	3551.1	3555.4	3516.2	3511.8
40°	3978.0	3995.5	3960.6	3925.8	3895.3	3882.2	3904.0	3947.5	3947.5	3921.4	3921.4
42.5°	4392.0	4405.0	4348.4	4304.8	4265.6	4256.9	4270.0	4322.3	4335.3	4331.0	4331.0
45°	4805.9	4797.2	4723.1	4679.5	4644.7	4622.9	4627.3	4666.5	4692.6	4705.7	4705.7
47.5°	5124.0	5110.9	5049.9	5015.0	4993.3	4962.8	4962.8	4984.5	4997.6	5002.0	5002.0
50°	5376.7	5363.6	5302.6	5298.3	5298.3	5285.2	5272.1	5267.8	5259.0	5263.4	5263.4
52.5°	5594.5	5577.1	5533.5	5542.3	5581.5	5590.2	5572.8	5537.9	5503.0	5490.0	5494.3
55°	5829.8	5803.7	5768.8	5795.0	5873.4	5908.3	5882.1	5812.4	5751.4	5712.2	5712.2
57.5°	6017.2	5986.7	5986.7	6060.8	6204.5	6274.3	6217.6	6086.9	5982.3	5938.8	5943.1
60°	5886.5	5860.3	5964.9	6291.7	6561.8	6679.5	6583.6	6352.7	6182.8	6130.5	6139.2
62.5°	5629.4	5612.0	5742.7	6248.1	6884.2	7128.2	6984.5	6653.3	6400.6	6339.6	6339.6
65°	5250.3	5246.0	5429.0	6052.0	6958.3	7559.6	7437.6	6980.1	6653.3	6570.5	6588.0
67.5°	4858.2	4858.2	5023.8	5716.5	6871.2	7742.6	7838.5	7276.4	6775.3	6570.5	6574.9
70°	4165.4	4239.5	4679.5	5407.2	6553.1	7611.9	8004.0	7067.2	6243.8	5882.1	5869.0
72.5°	2745.0	2840.8	3716.6	4866.9	6239.4	7137.0	7224.1	6208.9	5185.0	4762.3	4740.5
75°	1655.7	1738.5	2409.5	3799.4	5485.6	5747.0	5363.6	4866.9	3873.5	3542.3	3542.3
77.5°	488.0	544.6	1111.1	2409.5	3795.1	3777.6	3307.1	2867.0	2291.8	1947.6	1973.8
80°	287.6	296.3	361.6	1098.0	1572.9	1655.7	1276.6	797.4	797.4	592.6	575.1
82.5°	222.2	222.2	230.9	274.5	379.1	422.6	322.4	274.5	313.7	265.8	252.7
85°	156.9	156.9	156.9	161.2	165.6	169.9	178.6	183.0	200.4	165.6	156.9
87.5°	47.9	52.3	56.6	65.4	78.4	82.8	87.1	78.4	78.4	74.1	69.7
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)