

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: P836134

Luminaire Tested: **ARCH3-140-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21147 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 142.5
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

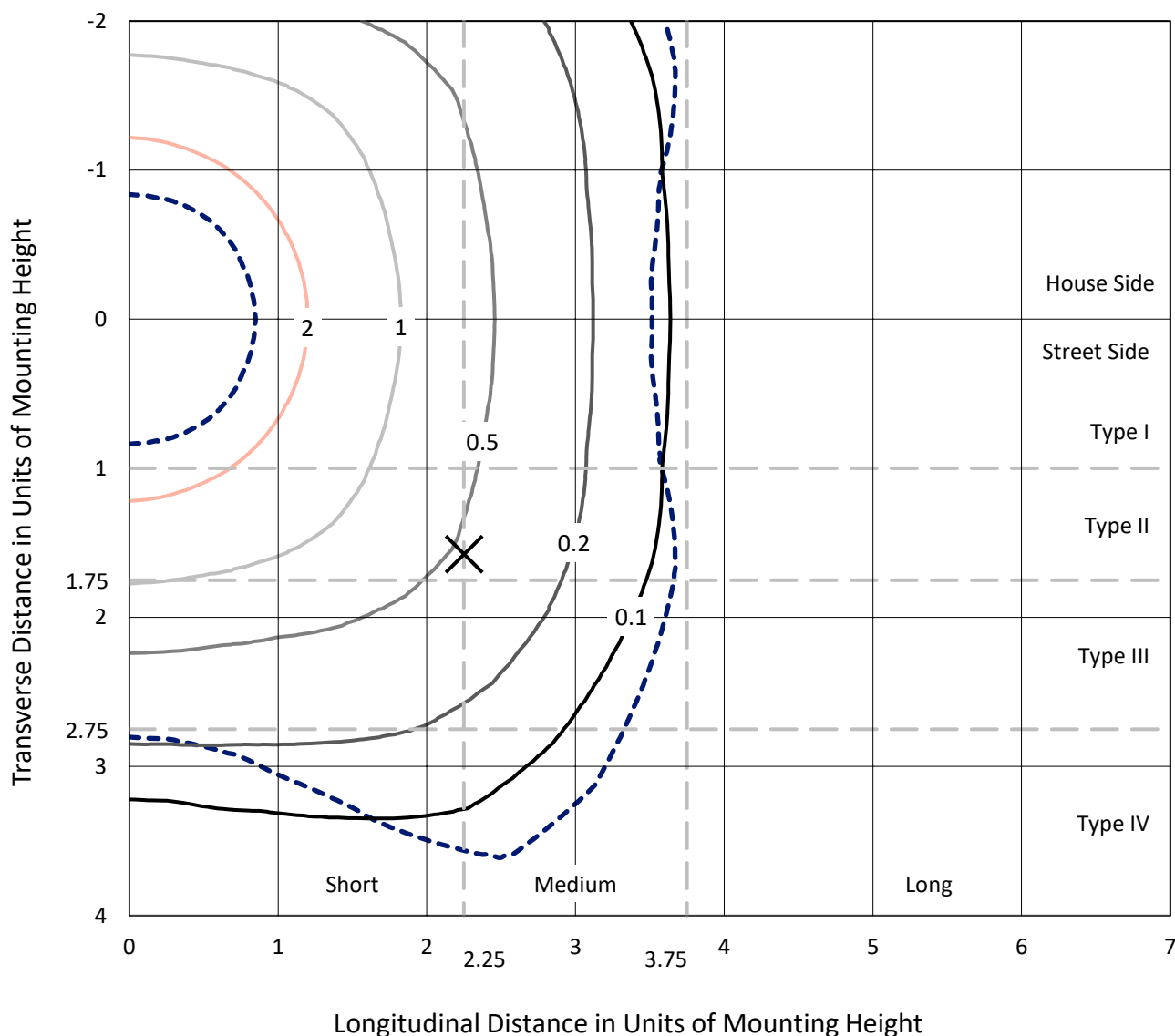


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Iso-Footcandle Lines of Horizontal Illumination

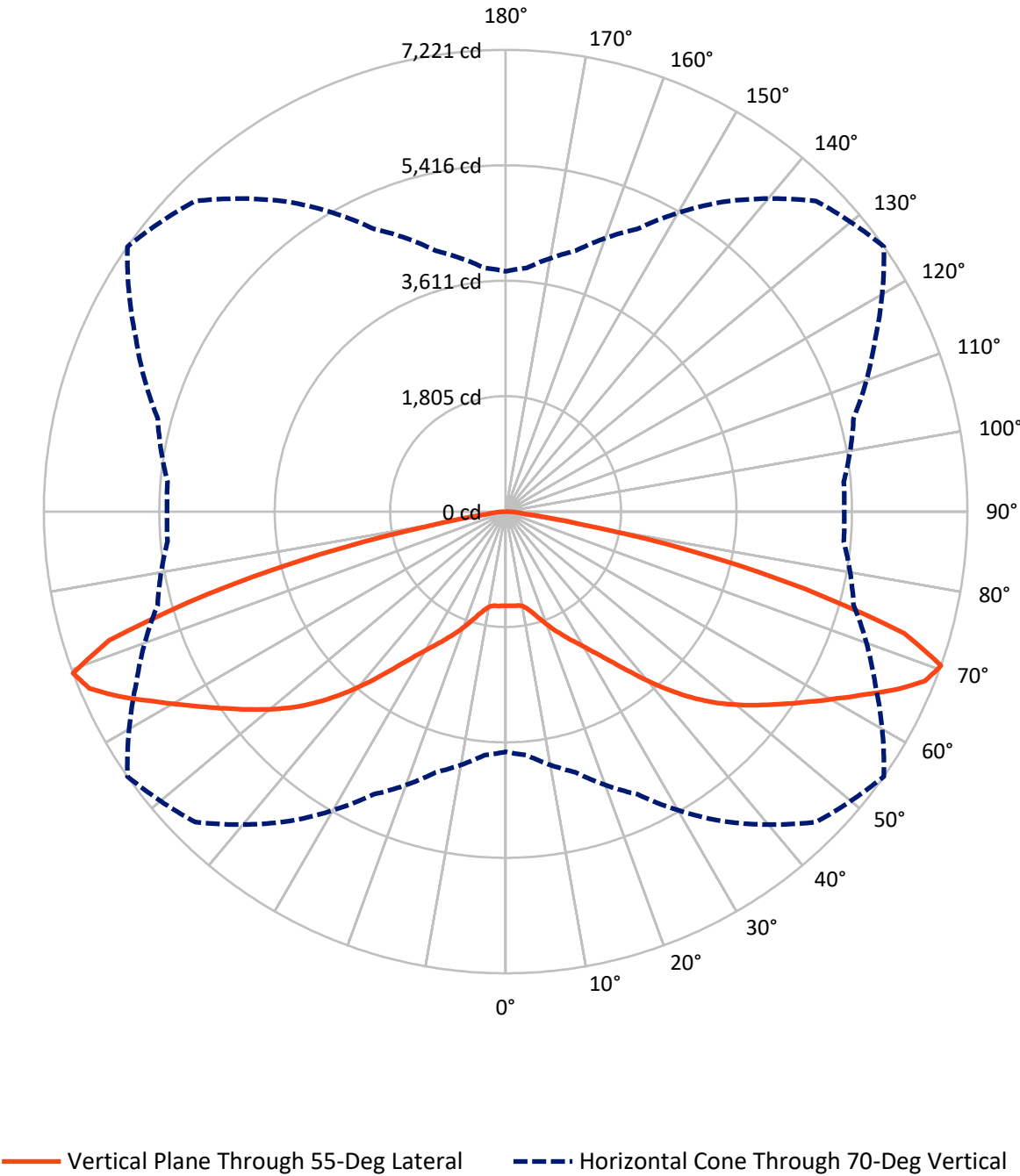
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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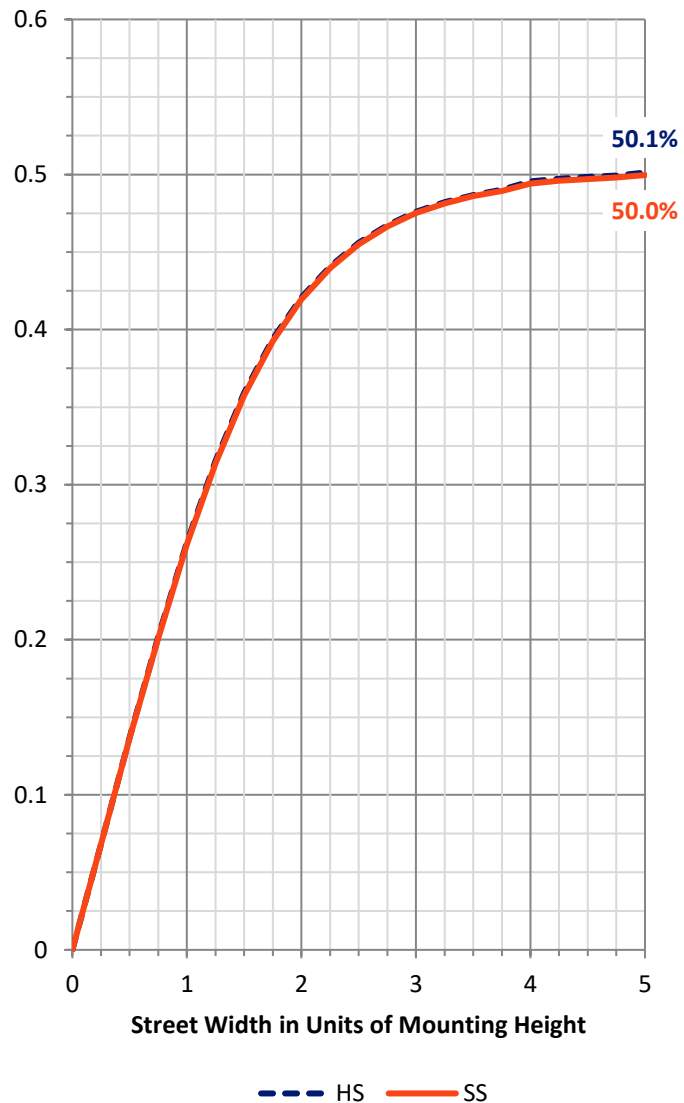
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10573.5	0.0	10573.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10573.5	0.0	10573.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21147.0	0.0	21147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	0.7
10°-20°	484.4	2.3
20°-30°	1006.4	4.8
30°-40°	1858.8	8.8
40°-50°	3265.5	15.4
50°-60°	4709.6	22.3
60°-70°	5764.0	27.3
70°-80°	3667.8	17.3
80°-90°	248.2	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°	21147.0	100.0
0°-180°	21147.0	100.0

Coefficient of Utilization



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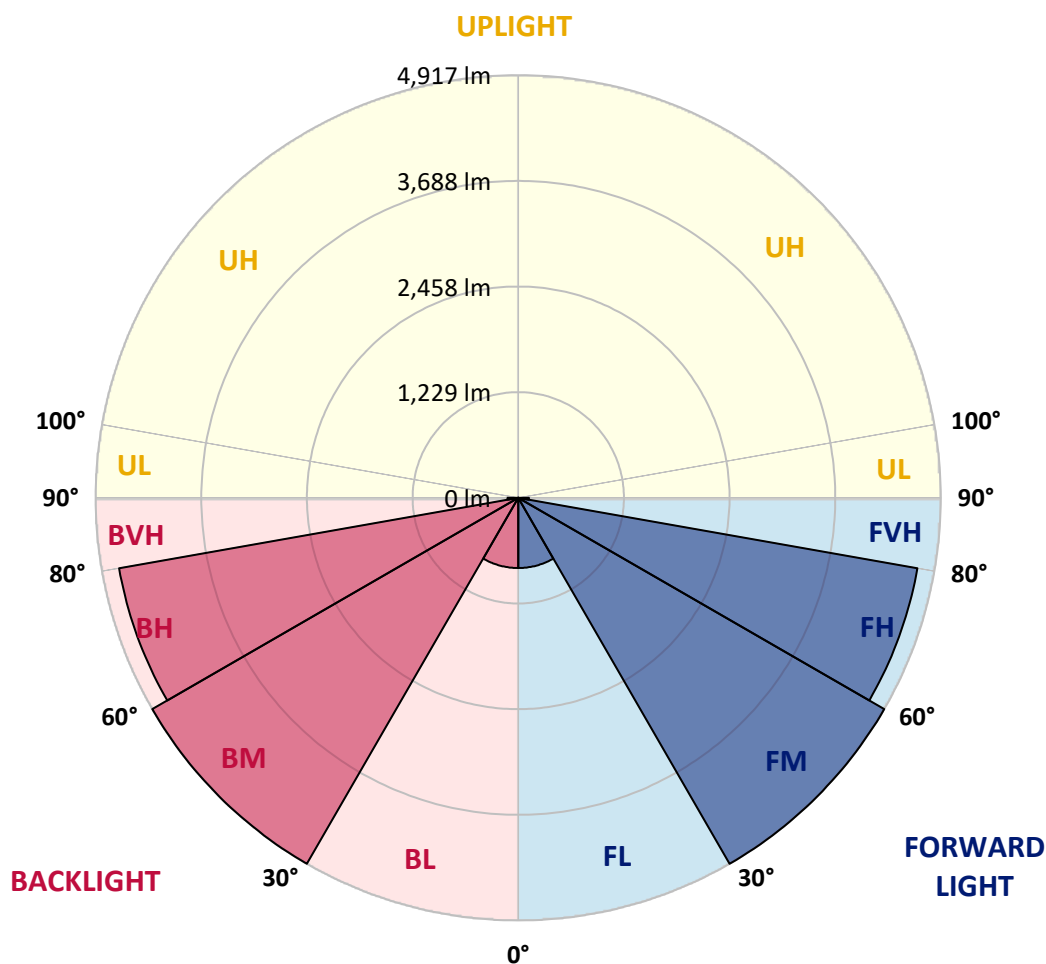
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	816.5	3.9			
FM	(30°-60°)	4916.9	23.3			
FH	(60°-80°)	4715.9	22.3			G2/5000
FVH	(80°-90°)	124.1	0.6			G2/225
BL	(0°-30°)	816.5	3.9	B2/1000		
BM	(30°-60°)	4916.9	23.3	B3/5000		
BH	(60°-80°)	4715.9	22.3	B4/5000		G2/5000
BVH	(80°-90°)	124.1	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°	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1
2.5°	1493.8	1493.8	1489.9	1489.9	1482.0	1478.1	1474.1	1474.1	1470.2	1470.2	1466.3
5°	1501.7	1501.7	1501.7	1497.7	1493.8	1489.9	1482.0	1474.1	1470.2	1466.3	1462.4
7.5°	1505.6	1505.6	1501.7	1501.7	1497.7	1493.8	1482.0	1470.2	1466.3	1462.4	1462.4
10°	1537.0	1533.1	1529.2	1521.3	1521.3	1521.3	1505.6	1493.8	1489.9	1489.9	1489.9
12.5°	1611.7	1607.8	1599.9	1588.1	1588.1	1592.1	1568.5	1552.8	1552.8	1548.8	1548.8
15°	1721.8	1717.9	1710.0	1690.4	1686.4	1694.3	1658.9	1643.2	1643.2	1643.2	1639.2
17.5°	1843.7	1835.8	1824.0	1808.3	1808.3	1808.3	1772.9	1753.3	1741.5	1741.5	1737.5
20°	1945.9	1941.9	1941.9	1938.0	1949.8	1949.8	1902.6	1871.2	1843.7	1827.9	1824.0
22.5°	2036.3	2032.4	2040.2	2055.9	2079.5	2087.4	2032.4	1985.2	1941.9	1910.5	1902.6
25°	2158.1	2154.2	2150.3	2173.9	2213.2	2225.0	2166.0	2107.0	2063.8	2048.1	2040.2
27.5°	2287.9	2291.8	2295.7	2319.3	2350.8	2370.4	2311.5	2256.4	2221.0	2197.5	2189.6
30°	2433.3	2441.2	2453.0	2488.4	2511.9	2519.8	2468.7	2429.4	2397.9	2378.3	2366.5
32.5°	2618.1	2633.8	2649.5	2681.0	2692.8	2684.9	2661.3	2633.8	2610.2	2582.7	2578.8
35°	2893.3	2909.0	2905.0	2916.8	2920.8	2912.9	2901.1	2885.4	2873.6	2838.2	2834.3
37.5°	3239.2	3254.9	3231.3	3219.5	3192.0	3195.9	3192.0	3203.8	3207.7	3172.4	3168.4
40°	3589.1	3604.8	3573.3	3541.9	3514.4	3502.6	3522.2	3561.5	3561.5	3537.9	3537.9
42.5°	3962.5	3974.3	3923.2	3883.9	3848.5	3840.6	3852.4	3899.6	3911.4	3907.5	3907.5
45°	4336.0	4328.1	4261.3	4222.0	4190.5	4170.8	4174.8	4210.2	4233.7	4245.5	4245.5
47.5°	4622.9	4611.1	4556.1	4524.6	4505.0	4477.5	4477.5	4497.1	4508.9	4512.9	4512.9
50°	4850.9	4839.1	4784.1	4780.2	4780.2	4768.4	4756.6	4752.6	4744.8	4748.7	4748.7
52.5°	5047.5	5031.7	4992.4	5000.3	5035.7	5043.5	5027.8	4996.4	4964.9	4953.1	4957.1
55°	5259.8	5236.2	5204.7	5228.3	5299.1	5330.5	5306.9	5244.0	5189.0	5153.6	5153.6
57.5°	5428.8	5401.3	5401.3	5468.1	5597.8	5660.7	5609.6	5491.7	5397.3	5358.0	5362.0
60°	5310.9	5287.3	5381.6	5676.4	5920.2	6026.3	5939.8	5731.5	5578.2	5531.0	5538.9
62.5°	5078.9	5063.2	5181.1	5637.1	6211.1	6431.2	6301.5	6002.7	5774.7	5719.7	5719.7
65°	4736.9	4733.0	4898.1	5460.2	6277.9	6820.4	6710.3	6297.5	6002.7	5928.0	5943.8
67.5°	4383.1	4383.1	4532.5	5157.5	6199.3	6985.5	7072.0	6564.9	6112.8	5928.0	5932.0
70°	3758.1	3824.9	4222.0	4878.4	5912.3	6867.6	7221.3	6376.2	5633.2	5306.9	5295.1
72.5°	2476.6	2563.0	3353.2	4391.0	5629.3	6439.1	6517.7	5601.8	4678.0	4296.6	4277.0
75°	1493.8	1568.5	2173.9	3427.9	4949.2	5185.1	4839.1	4391.0	3494.7	3195.9	3195.9
77.5°	440.3	491.4	1002.4	2173.9	3423.9	3408.2	2983.7	2586.6	2067.7	1757.2	1780.8
80°	259.4	267.3	326.3	990.6	1419.1	1493.8	1151.8	719.4	719.4	534.6	518.9
82.5°	200.5	200.5	208.3	247.7	342.0	381.3	290.9	247.7	283.0	239.8	228.0
85°	141.5	141.5	141.5	145.4	149.4	153.3	161.2	165.1	180.8	149.4	141.5
87.5°	43.2	47.2	51.1	59.0	70.8	74.7	78.6	70.8	70.8	66.8	62.9
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)