

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: P841666

Luminaire Tested: **ARCH4-210-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841666
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: ARCH4-210-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31831 lumens
Efficiency: N/A
Efficacy: 149.4 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): 213.1
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

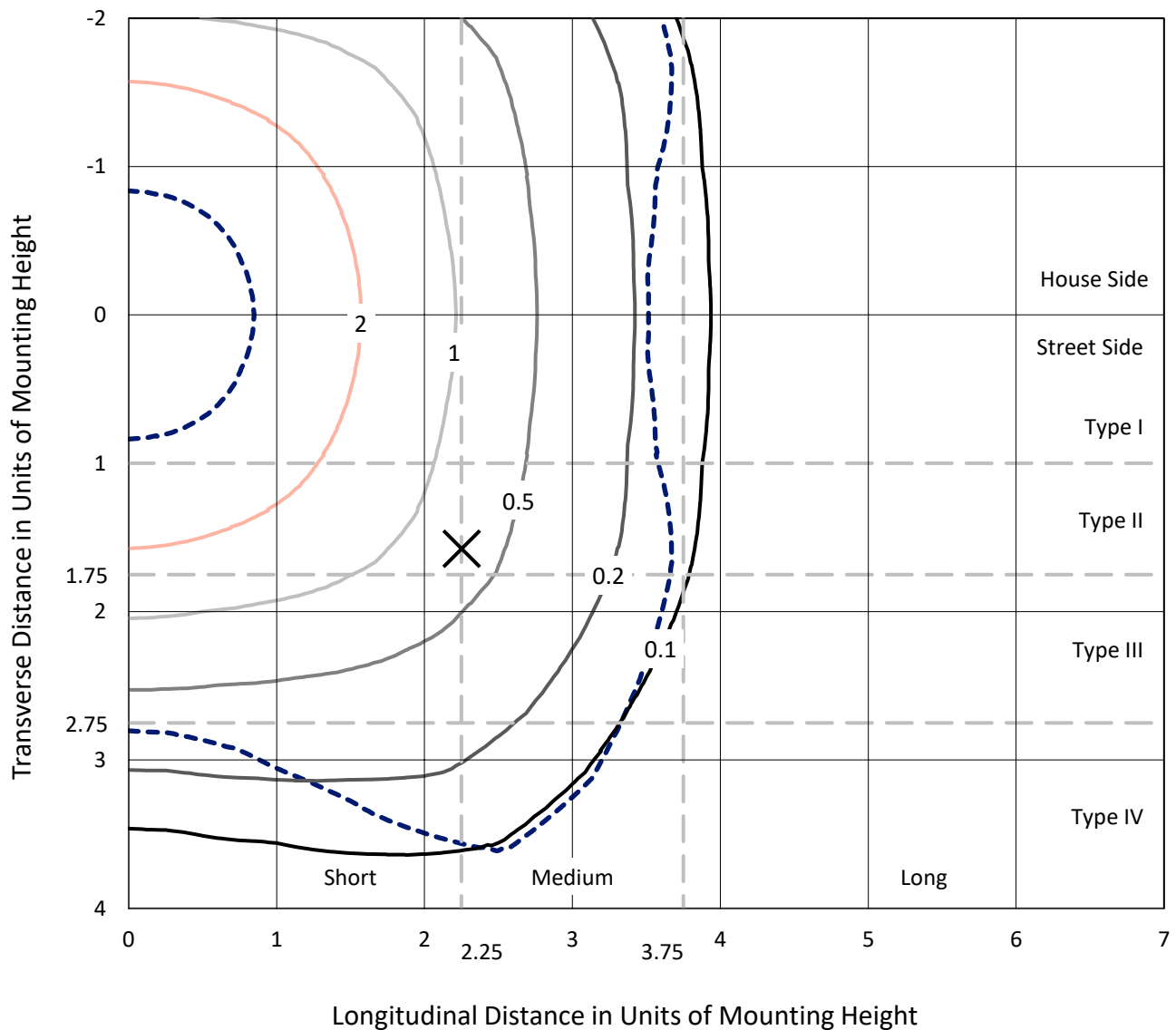


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

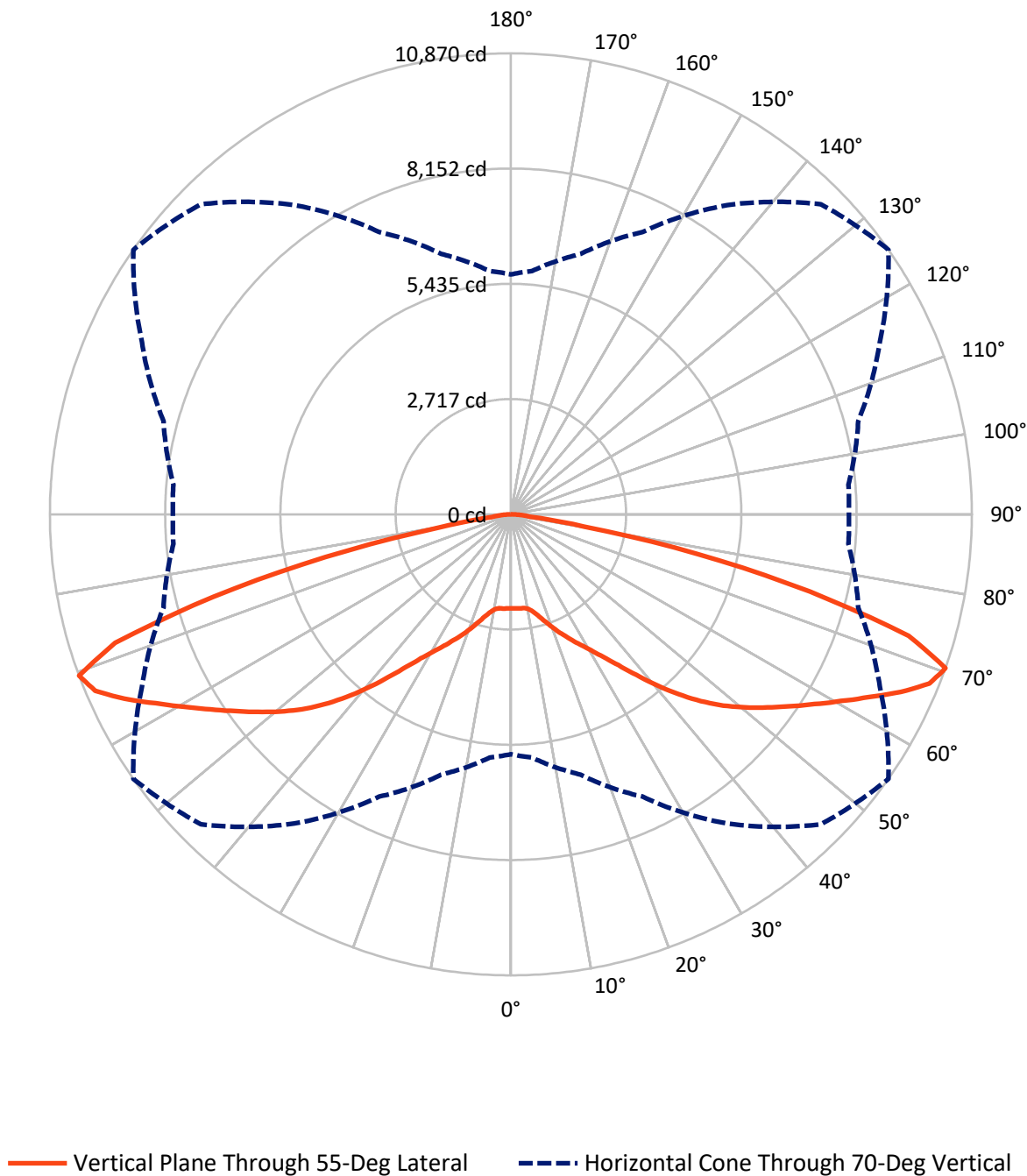


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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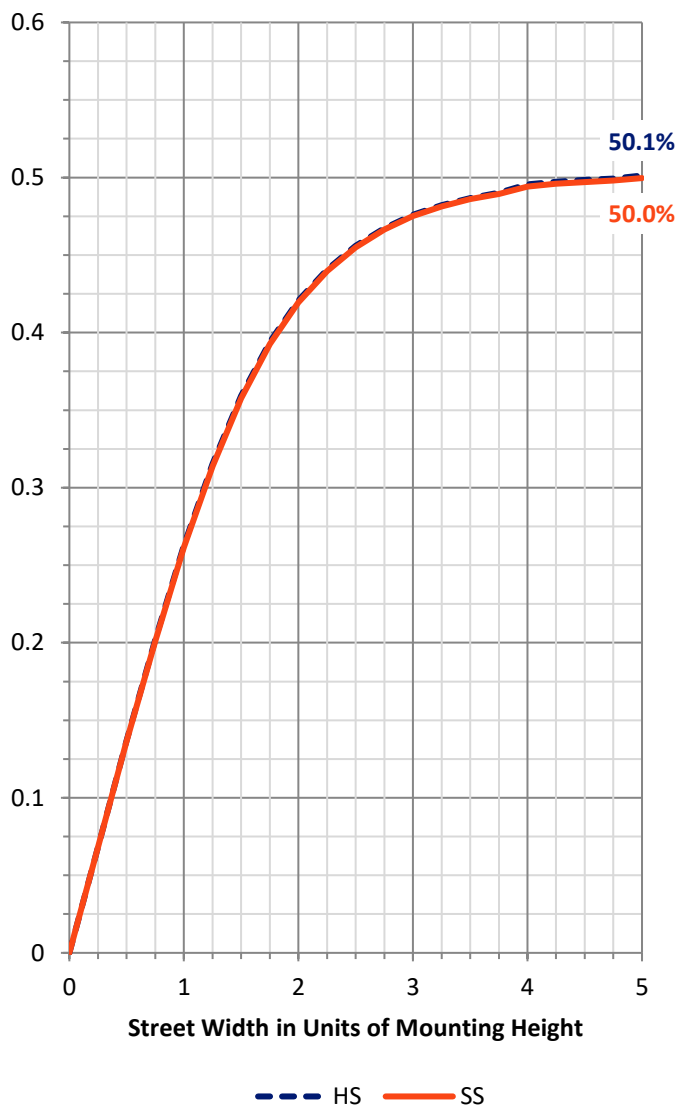
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15915.5	0.0	15915.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15915.5	0.0	15915.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31831.0	0.0	31831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	0.7
10°-20°	729.1	2.3
20°-30°	1514.9	4.8
30°-40°	2797.9	8.8
40°-50°	4915.3	15.4
50°-60°	7089.0	22.3
60°-70°	8676.2	27.3
70°-80°	5520.9	17.3
80°-90°	373.6	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°	31831.0	100.0
0°-180°	31831.0	100.0

Coefficient of Utilization



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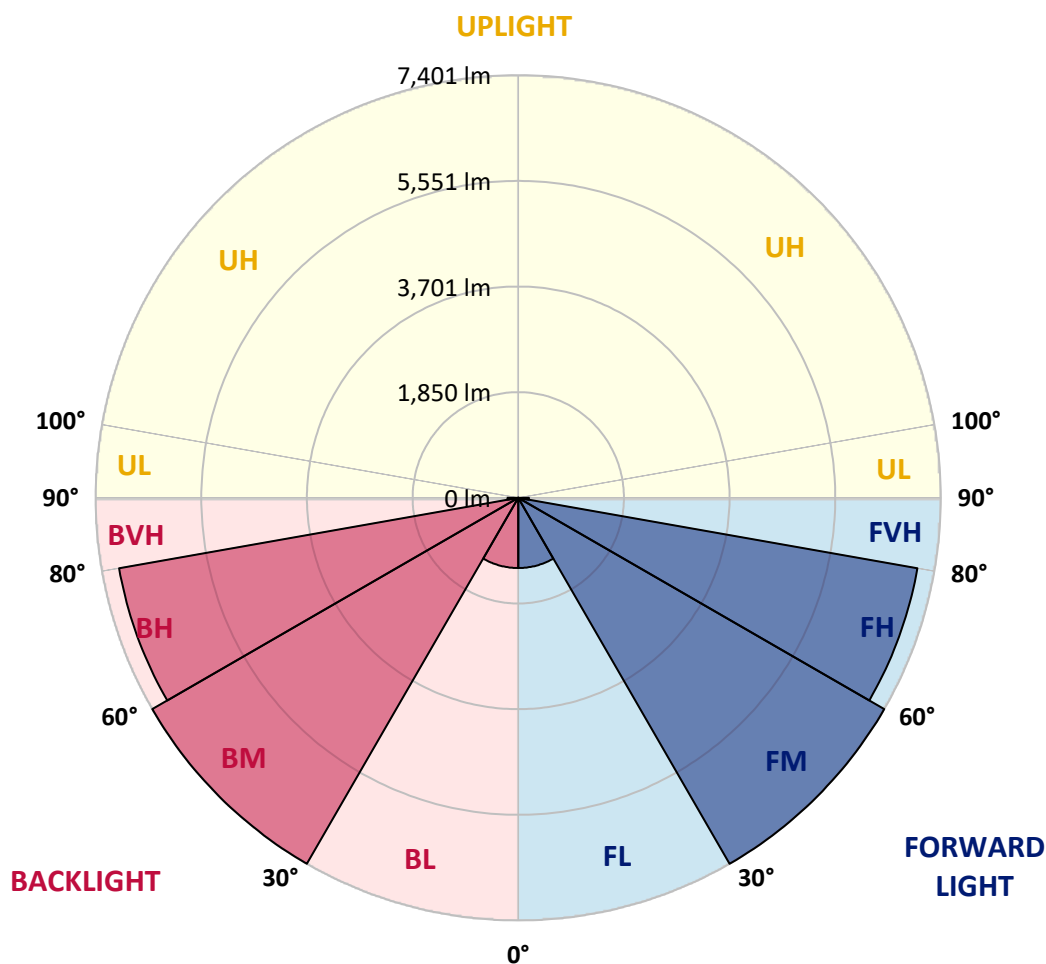
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1229.1	3.9			
FM	(30°-60°)	7401.1	23.3			
FH	(60°-80°)	7098.5	22.3			G3/7500
FVH	(80°-90°)	186.8	0.6			G2/225
BL	(0°-30°)	1229.1	3.9	B3/2500		
BM	(30°-60°)	7401.1	23.3	B4/8500		
BH	(60°-80°)	7098.5	22.3	B5		G3/7500
BVH	(80°-90°)	186.8	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°	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9
2.5°	2248.5	2248.5	2242.6	2242.6	2230.8	2224.8	2218.9	2218.9	2213.0	2213.0	2207.1
5°	2260.3	2260.3	2260.3	2254.4	2248.5	2242.6	2230.8	2218.9	2213.0	2207.1	2201.2
7.5°	2266.3	2266.3	2260.3	2260.3	2254.4	2248.5	2230.8	2213.0	2207.1	2201.2	2201.2
10°	2313.6	2307.7	2301.8	2289.9	2289.9	2289.9	2266.3	2248.5	2242.6	2242.6	2242.6
12.5°	2426.0	2420.1	2408.3	2390.5	2390.5	2396.4	2360.9	2337.3	2337.3	2331.3	2331.3
15°	2591.7	2585.8	2573.9	2544.4	2538.4	2550.3	2497.0	2473.4	2473.4	2473.4	2467.4
17.5°	2775.1	2763.3	2745.5	2721.9	2721.9	2721.9	2668.6	2639.0	2621.3	2621.3	2615.4
20°	2929.0	2923.1	2923.1	2917.1	2934.9	2934.9	2863.9	2816.6	2775.1	2751.5	2745.5
22.5°	3065.1	3059.2	3071.0	3094.7	3130.2	3142.0	3059.2	2988.1	2923.1	2875.7	2863.9
25°	3248.5	3242.6	3236.7	3272.2	3331.3	3349.1	3260.3	3171.6	3106.5	3082.8	3071.0
27.5°	3443.8	3449.7	3455.6	3491.1	3538.4	3568.0	3479.3	3396.4	3343.2	3307.7	3295.8
30°	3662.7	3674.5	3692.3	3745.5	3781.0	3792.9	3716.0	3656.8	3609.4	3579.9	3562.1
32.5°	3940.8	3964.5	3988.1	4035.5	4053.2	4041.4	4005.9	3964.5	3929.0	3887.5	3881.6
35°	4355.0	4378.7	4372.8	4390.5	4396.4	4384.6	4366.8	4343.2	4325.4	4272.2	4266.2
37.5°	4875.7	4899.4	4863.9	4846.1	4804.7	4810.6	4804.7	4822.5	4828.4	4775.1	4769.2
40°	5402.3	5426.0	5378.7	5331.3	5289.9	5272.2	5301.7	5360.9	5360.9	5325.4	5325.4
42.5°	5964.5	5982.2	5905.3	5846.1	5792.9	5781.0	5798.8	5869.8	5887.5	5881.6	5881.6
45°	6526.6	6514.8	6414.2	6355.0	6307.7	6278.1	6284.0	6337.2	6372.7	6390.5	6390.5
47.5°	6958.5	6940.8	6857.9	6810.6	6781.0	6739.6	6739.6	6769.2	6786.9	6792.9	6792.9
50°	7301.7	7284.0	7201.1	7195.2	7195.2	7177.5	7159.7	7153.8	7142.0	7147.9	7147.9
52.5°	7597.6	7573.9	7514.7	7526.6	7579.8	7591.7	7568.0	7520.7	7473.3	7455.6	7461.5
55°	7917.1	7881.6	7834.3	7869.8	7976.3	8023.6	7988.1	7893.4	7810.6	7757.3	7757.3
57.5°	8171.5	8130.1	8130.1	8230.7	8426.0	8520.7	8443.7	8266.2	8124.2	8065.0	8071.0
60°	7994.0	7958.5	8100.5	8544.3	8911.2	9070.9	8940.8	8627.2	8396.4	8325.4	8337.2
62.5°	7644.9	7621.3	7798.8	8485.2	9349.1	9680.4	9485.1	9035.4	8692.3	8609.4	8609.4
65°	7130.1	7124.2	7372.7	8218.9	9449.6	10266.2	10100.5	9479.2	9035.4	8923.0	8946.7
67.5°	6597.6	6597.6	6822.4	7763.3	9331.3	10514.7	10644.9	9881.6	9201.1	8923.0	8928.9
70°	5656.8	5757.4	6355.0	7343.1	8899.4	10337.2	10869.8	9597.6	8479.2	7988.1	7970.4
72.5°	3727.8	3858.0	5047.3	6609.4	8473.3	9692.2	9810.6	8431.9	7041.4	6467.4	6437.8
75°	2248.5	2360.9	3272.2	5159.7	7449.7	7804.7	7284.0	6609.4	5260.3	4810.6	4810.6
77.5°	662.7	739.6	1508.9	3272.2	5153.8	5130.1	4491.1	3893.5	3112.4	2645.0	2680.5
80°	390.5	402.4	491.1	1491.1	2136.1	2248.5	1733.7	1082.8	1082.8	804.7	781.1
82.5°	301.8	301.8	313.6	372.8	514.8	574.0	437.9	372.8	426.0	360.9	343.2
85°	213.0	213.0	213.0	218.9	224.9	230.8	242.6	248.5	272.2	224.9	213.0
87.5°	65.1	71.0	76.9	88.8	106.5	112.4	118.3	106.5	106.5	100.6	94.7
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)