

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: P842044

Luminaire Tested: **ARCH4-260-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842044
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: ARCH4-260-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38996 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 259.2
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

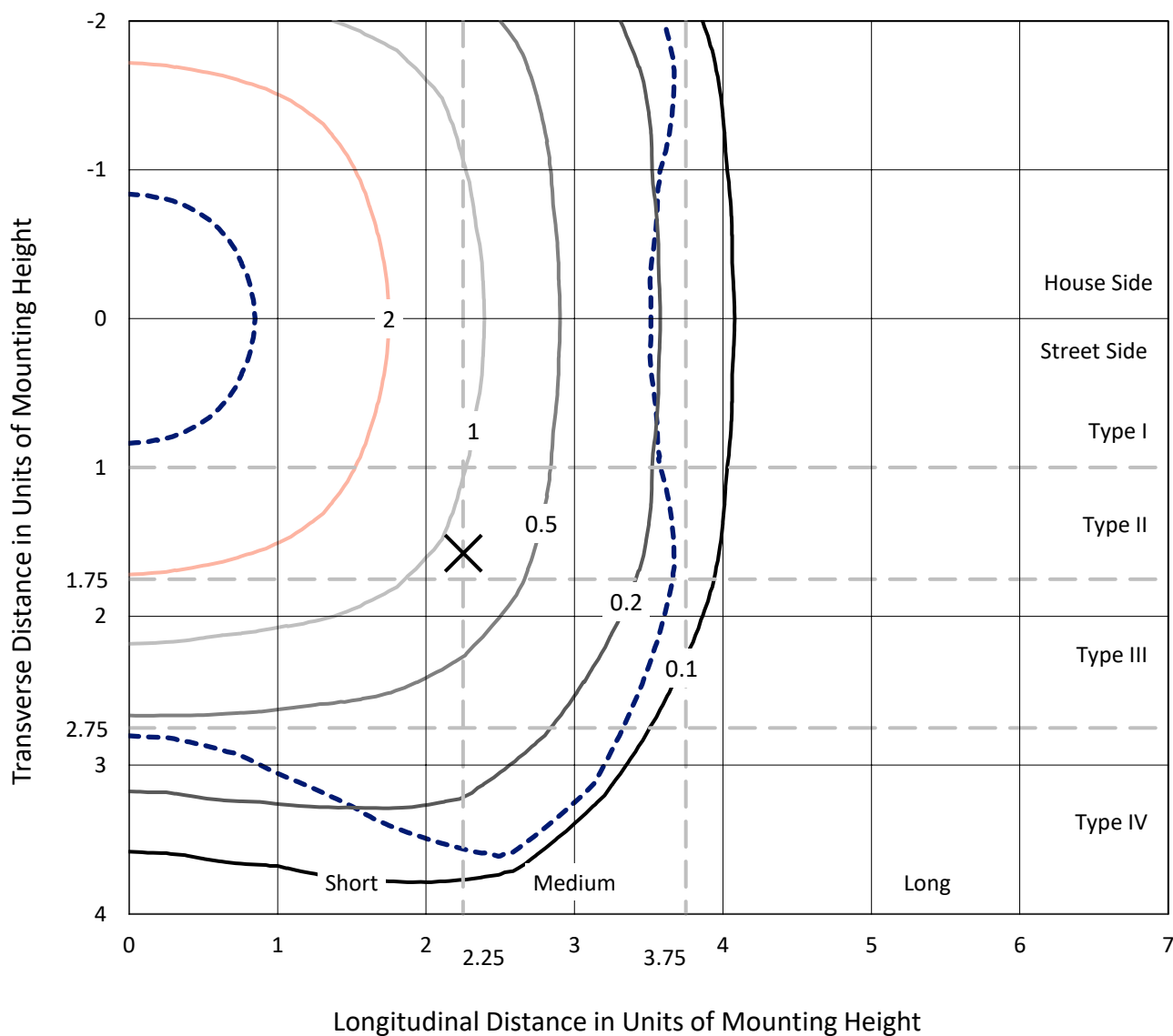


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Iso-Footcandle Lines of Horizontal Illumination

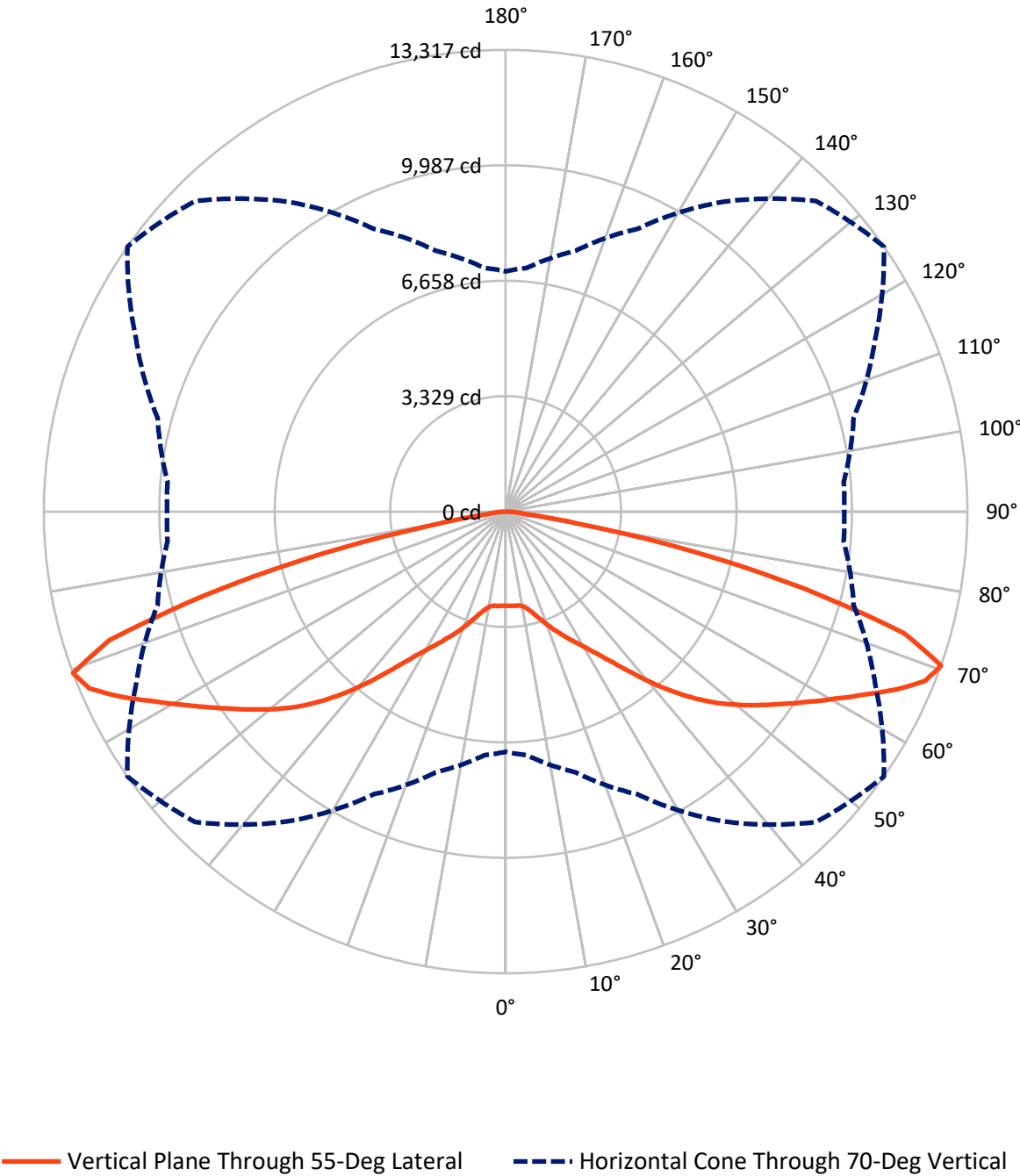
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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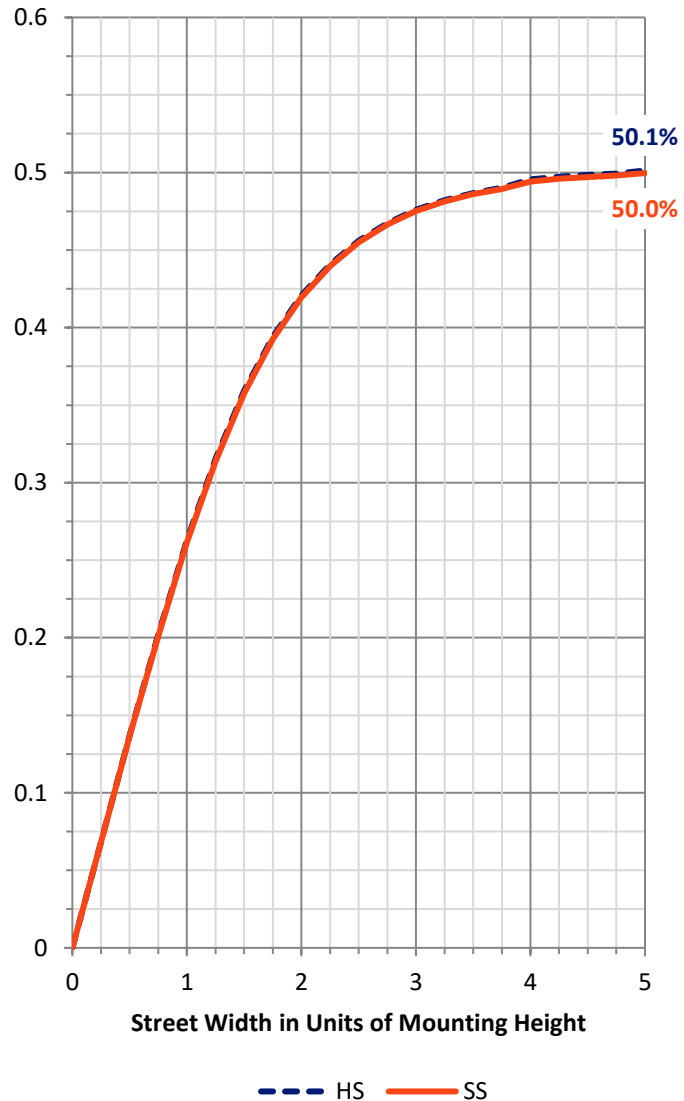
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19498.0	0.0	19498.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19498.0	0.0	19498.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38996.0	0.0	38996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	0.7
10°-20°	893.2	2.3
20°-30°	1855.9	4.8
30°-40°	3427.7	8.8
40°-50°	6021.7	15.4
50°-60°	8684.7	22.3
60°-70°	10629.2	27.3
70°-80°	6763.6	17.3
80°-90°	457.7	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°	38996.0	100.0
0°-180°	38996.0	100.0

Coefficient of Utilization



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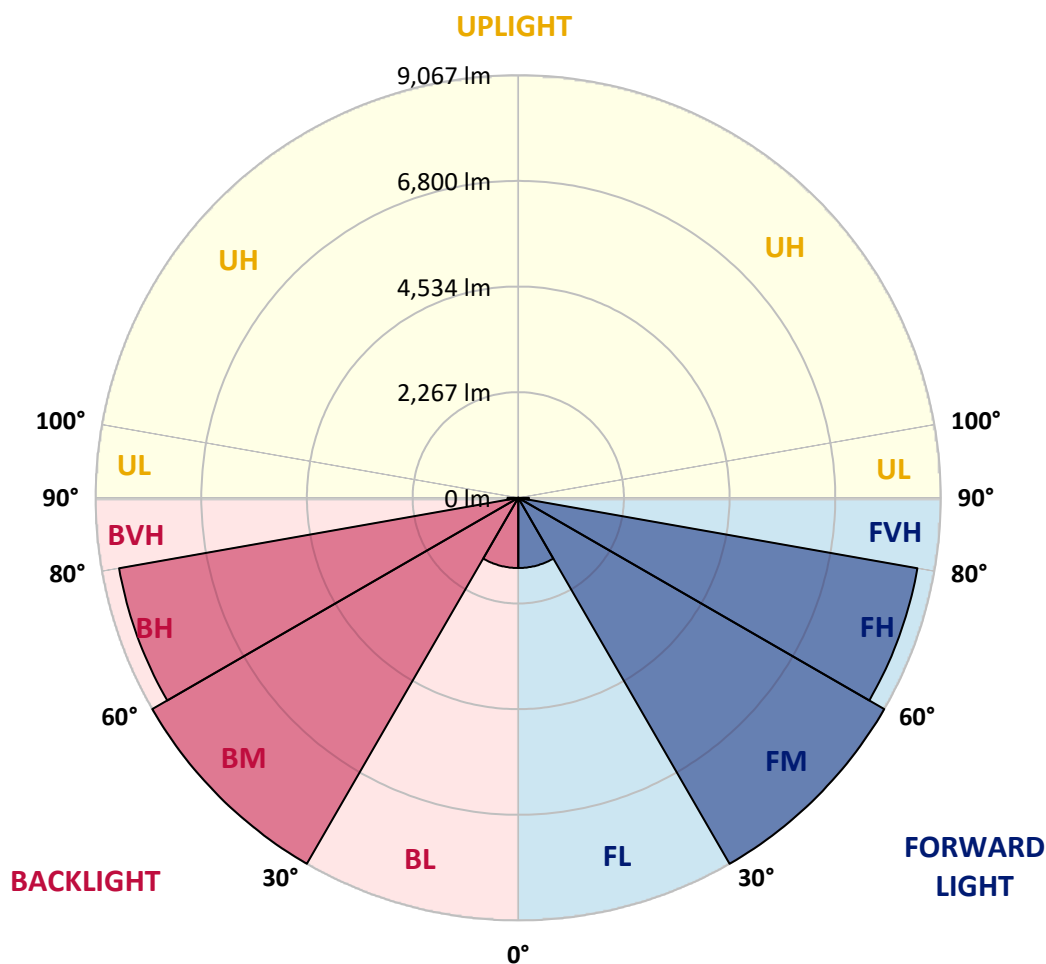
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1505.7	3.9			
FM	(30°-60°)	9067.1	23.3			
FH	(60°-80°)	8696.4	22.3			G4/12000
FVH	(80°-90°)	228.8	0.6			G3/500
BL	(0°-30°)	1505.7	3.9	B3/2500		
BM	(30°-60°)	9067.1	23.3	B5		
BH	(60°-80°)	8696.4	22.3	B5		G4/12000
BVH	(80°-90°)	228.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2718.4	2718.4	2718.4	2718.4	2718.4	2718.4	2718.4	2718.4	2718.4	2718.4	2718.4
2.5°	2754.6	2754.6	2747.4	2747.4	2732.9	2725.6	2718.4	2718.4	2711.1	2711.1	2703.9
5°	2769.1	2769.1	2769.1	2761.9	2754.6	2747.4	2732.9	2718.4	2711.1	2703.9	2696.6
7.5°	2776.4	2776.4	2769.1	2769.1	2761.9	2754.6	2732.9	2711.1	2703.9	2696.6	2696.6
10°	2834.4	2827.1	2819.9	2805.4	2805.4	2805.4	2776.4	2754.6	2747.4	2747.4	2747.4
12.5°	2972.1	2964.9	2950.4	2928.6	2928.6	2935.9	2892.4	2863.4	2863.4	2856.1	2856.1
15°	3175.1	3167.8	3153.3	3117.1	3109.8	3124.3	3059.1	3030.1	3030.1	3030.1	3022.8
17.5°	3399.8	3385.3	3363.6	3334.6	3334.6	3334.6	3269.3	3233.1	3211.3	3211.3	3204.1
20°	3588.3	3581.0	3581.0	3573.8	3595.5	3595.5	3508.5	3450.5	3399.8	3370.8	3363.6
22.5°	3755.0	3747.8	3762.3	3791.2	3834.7	3849.2	3747.8	3660.8	3581.0	3523.0	3508.5
25°	3979.7	3972.5	3965.2	4008.7	4081.2	4103.0	3994.2	3885.5	3805.7	3776.7	3762.3
27.5°	4218.9	4226.2	4233.4	4276.9	4334.9	4371.2	4262.4	4160.9	4095.7	4052.2	4037.7
30°	4487.2	4501.7	4523.4	4588.6	4632.1	4646.6	4552.4	4479.9	4421.9	4385.7	4363.9
32.5°	4827.9	4856.9	4885.9	4943.8	4965.6	4951.1	4907.6	4856.9	4813.4	4762.6	4755.4
35°	5335.3	5364.3	5357.0	5378.8	5386.0	5371.5	5349.8	5320.8	5299.0	5233.8	5226.6
37.5°	5973.2	6002.2	5958.7	5937.0	5886.2	5893.5	5886.2	5908.0	5915.2	5850.0	5842.7
40°	6618.4	6647.4	6589.4	6531.4	6480.6	6458.9	6495.1	6567.6	6567.6	6524.1	6524.1
42.5°	7307.0	7328.8	7234.5	7162.0	7096.8	7082.3	7104.1	7191.0	7212.8	7205.5	7205.5
45°	7995.7	7981.2	7858.0	7785.5	7727.5	7691.2	7698.5	7763.7	7807.2	7829.0	7829.0
47.5°	8524.9	8503.1	8401.6	8343.6	8307.4	8256.7	8256.7	8292.9	8314.6	8321.9	8321.9
50°	8945.3	8923.6	8822.1	8814.8	8814.8	8793.1	8771.3	8764.1	8749.6	8756.8	8756.8
52.5°	9307.8	9278.8	9206.3	9220.8	9286.0	9300.5	9271.5	9213.5	9155.5	9133.8	9141.0
55°	9699.2	9655.7	9597.7	9641.2	9771.7	9829.7	9786.2	9670.2	9568.7	9503.5	9503.5
57.5°	10010.9	9960.2	9960.2	10083.4	10322.6	10438.6	10344.4	10126.9	9952.9	9880.4	9887.7
60°	9793.4	9750.0	9923.9	10467.6	10917.1	11112.8	10953.3	10569.1	10286.4	10199.4	10213.9
62.5°	9365.8	9336.8	9554.2	10395.1	11453.5	11859.4	11620.2	11069.3	10648.8	10547.3	10547.3
65°	8735.1	8727.8	9032.3	10068.9	11576.7	12577.1	12374.1	11613.0	11069.3	10931.5	10960.5
67.5°	8082.7	8082.7	8358.1	9510.7	11431.7	12881.5	13041.0	12105.9	11272.3	10931.5	10938.8
70°	6930.1	7053.3	7785.5	8996.1	10902.6	12664.1	13316.5	11757.9	10387.9	9786.2	9764.5
72.5°	4566.9	4726.4	6183.4	8097.2	10380.6	11873.9	12018.9	10329.9	8626.4	7923.2	7887.0
75°	2754.6	2892.4	4008.7	6321.2	9126.5	9561.5	8923.6	8097.2	6444.4	5893.5	5893.5
77.5°	811.9	906.1	1848.5	4008.7	6313.9	6284.9	5502.0	4769.9	3813.0	3240.3	3283.8
80°	478.4	492.9	601.7	1826.8	2616.9	2754.6	2124.0	1326.6	1326.6	985.9	956.9
82.5°	369.7	369.7	384.2	456.7	630.7	703.2	536.4	456.7	521.9	442.2	420.4
85°	261.0	261.0	261.0	268.2	275.5	282.7	297.2	304.5	333.5	275.5	261.0
87.5°	79.7	87.0	94.2	108.7	130.5	137.7	145.0	130.5	130.5	123.2	116.0
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)