

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: P842125

Luminaire Tested: **ARCH4-270-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842125
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: ARCH4-270-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39650 lumens
Efficiency: N/A
Efficacy: 147.4 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): 269
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

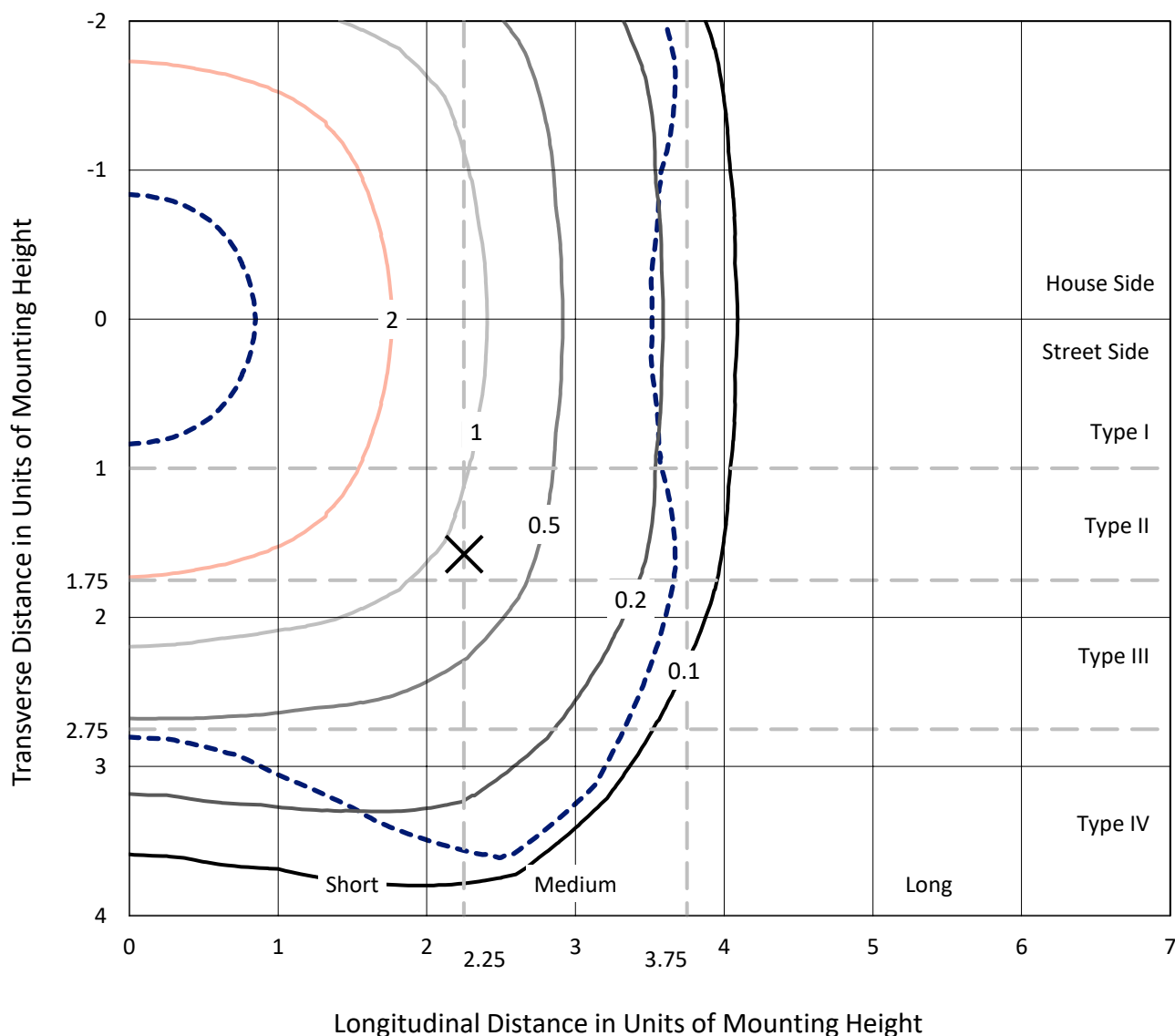


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Iso-Footcandle Lines of Horizontal Illumination

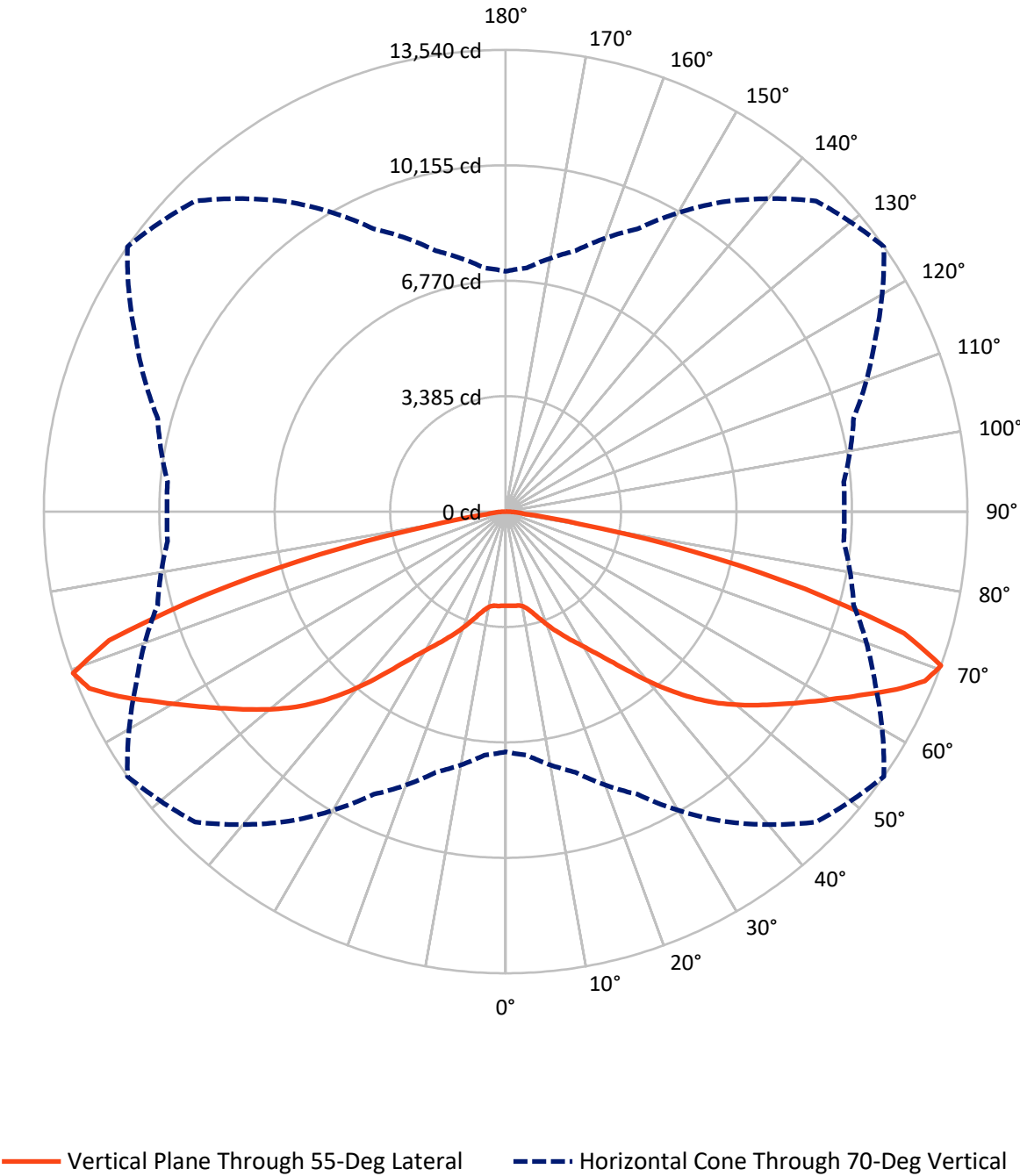
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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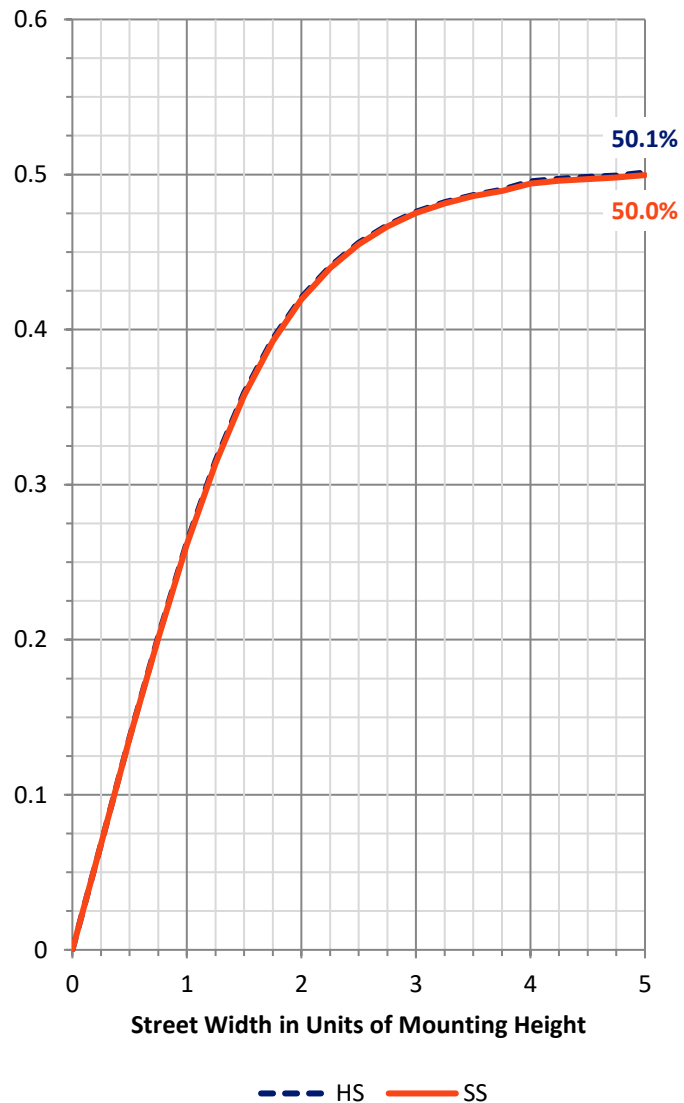
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19825.0	0.0	19825.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19825.0	0.0	19825.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39650.0	0.0	39650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	0.7
10°-20°	908.1	2.3
20°-30°	1887.0	4.8
30°-40°	3485.2	8.8
40°-50°	6122.7	15.4
50°-60°	8830.4	22.3
60°-70°	10807.4	27.3
70°-80°	6877.0	17.3
80°-90°	465.3	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°	39650.0	100.0
0°-180°	39650.0	100.0

Coefficient of Utilization



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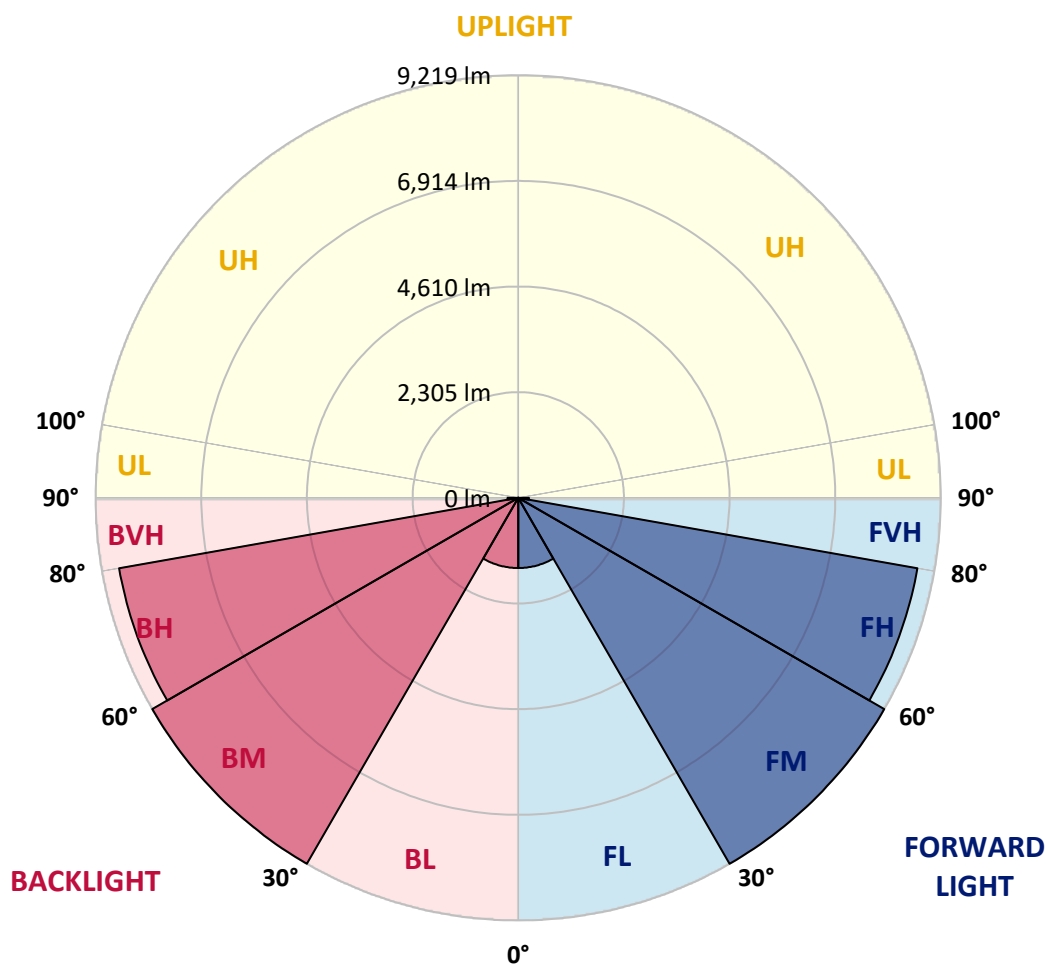
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.0	3.9			
FM	(30°-60°)	9219.1	23.3			
FH	(60°-80°)	8842.2	22.3			G4/12000
FVH	(80°-90°)	232.7	0.6			G3/500
BL	(0°-30°)	1531.0	3.9	B3/2500		
BM	(30°-60°)	9219.1	23.3	B5		
BH	(60°-80°)	8842.2	22.3	B5		G4/12000
BVH	(80°-90°)	232.7	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°	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0	2764.0
2.5°	2800.8	2800.8	2793.5	2793.5	2778.7	2771.3	2764.0	2764.0	2756.6	2756.6	2749.2
5°	2815.6	2815.6	2815.6	2808.2	2800.8	2793.5	2778.7	2764.0	2756.6	2749.2	2741.9
7.5°	2822.9	2822.9	2815.6	2815.6	2808.2	2800.8	2778.7	2756.6	2749.2	2741.9	2741.9
10°	2881.9	2874.5	2867.2	2852.4	2852.4	2852.4	2822.9	2800.8	2793.5	2793.5	2793.5
12.5°	3022.0	3014.6	2999.8	2977.7	2977.7	2985.1	2940.9	2911.4	2911.4	2904.0	2904.0
15°	3228.3	3221.0	3206.2	3169.4	3162.0	3176.7	3110.4	3080.9	3080.9	3080.9	3073.5
17.5°	3456.8	3442.1	3420.0	3390.5	3390.5	3390.5	3324.1	3287.3	3265.2	3265.2	3257.8
20°	3648.5	3641.1	3641.1	3633.7	3655.8	3655.8	3567.4	3508.4	3456.8	3427.3	3420.0
22.5°	3818.0	3810.6	3825.3	3854.8	3899.1	3913.8	3810.6	3722.2	3641.1	3582.1	3567.4
25°	4046.5	4039.1	4031.7	4075.9	4149.7	4171.8	4061.2	3950.6	3869.6	3840.1	3825.3
27.5°	4289.7	4297.1	4304.4	4348.7	4407.6	4444.5	4333.9	4230.7	4164.4	4120.2	4105.4
30°	4562.4	4577.1	4599.3	4665.6	4709.8	4724.6	4628.7	4555.0	4496.1	4459.2	4437.1
32.5°	4908.8	4938.3	4967.8	5026.8	5048.9	5034.1	4989.9	4938.3	4894.1	4842.5	4835.1
35°	5424.8	5454.3	5446.9	5469.0	5476.4	5461.6	5439.5	5410.0	5387.9	5321.6	5314.2
37.5°	6073.4	6102.9	6058.6	6036.5	5984.9	5992.3	5984.9	6007.0	6014.4	5948.1	5940.7
40°	6729.4	6758.9	6699.9	6640.9	6589.3	6567.2	6604.1	6677.8	6677.8	6633.5	6633.5
42.5°	7429.6	7451.7	7355.9	7282.2	7215.8	7201.1	7223.2	7311.6	7333.8	7326.4	7326.4
45°	8129.8	8115.0	7989.7	7916.0	7857.1	7820.2	7827.6	7893.9	7938.1	7960.3	7960.3
47.5°	8667.8	8645.7	8542.5	8483.6	8446.7	8395.1	8395.1	8432.0	8454.1	8461.5	8461.5
50°	9095.3	9073.2	8970.0	8962.7	8962.7	8940.6	8918.4	8911.1	8896.3	8903.7	8903.7
52.5°	9463.9	9434.4	9360.7	9375.4	9441.8	9456.5	9427.0	9368.0	9309.1	9287.0	9294.3
55°	9861.9	9817.7	9758.7	9802.9	9935.6	9994.5	9950.3	9832.4	9729.2	9662.9	9662.9
57.5°	10178.8	10127.2	10127.2	10252.5	10495.7	10613.7	10517.9	10296.7	10119.8	10046.1	10053.5
60°	9957.7	9913.5	10090.4	10643.2	11100.1	11299.1	11137.0	10746.4	10458.9	10370.4	10385.2
62.5°	9522.8	9493.3	9714.5	10569.5	11645.6	12058.3	11815.1	11254.9	10827.4	10724.2	10724.2
65°	8881.6	8874.2	9183.8	10237.8	11770.9	12788.0	12581.6	11807.7	11254.9	11114.9	11144.4
67.5°	8218.2	8218.2	8498.3	9670.2	11623.5	13097.6	13259.7	12308.9	11461.3	11114.9	11122.3
70°	7046.3	7171.6	7916.0	9146.9	11085.4	12876.5	13539.8	11955.1	10562.1	9950.3	9928.2
72.5°	4643.5	4805.6	6287.1	8233.0	10554.7	12073.1	12220.5	10503.1	8771.0	8056.1	8019.2
75°	2800.8	2940.9	4075.9	6427.2	9279.6	9721.8	9073.2	8233.0	6552.5	5992.3	5992.3
77.5°	825.5	921.3	1879.5	4075.9	6419.8	6390.3	5594.3	4849.9	3876.9	3294.7	3338.9
80°	486.5	501.2	611.8	1857.4	2660.8	2800.8	2159.6	1348.8	1348.8	1002.4	972.9
82.5°	375.9	375.9	390.6	464.3	641.2	714.9	545.4	464.3	530.7	449.6	427.5
85°	265.3	265.3	265.3	272.7	280.1	287.5	302.2	309.6	339.0	280.1	265.3
87.5°	81.1	88.4	95.8	110.6	132.7	140.0	147.4	132.7	132.7	125.3	117.9
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)