

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: P842305

Luminaire Tested: **ARCH4-300-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842305
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: ARCH4-300-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39671 lumens
Efficiency: N/A
Efficacy: 132.6 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): 299.2
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

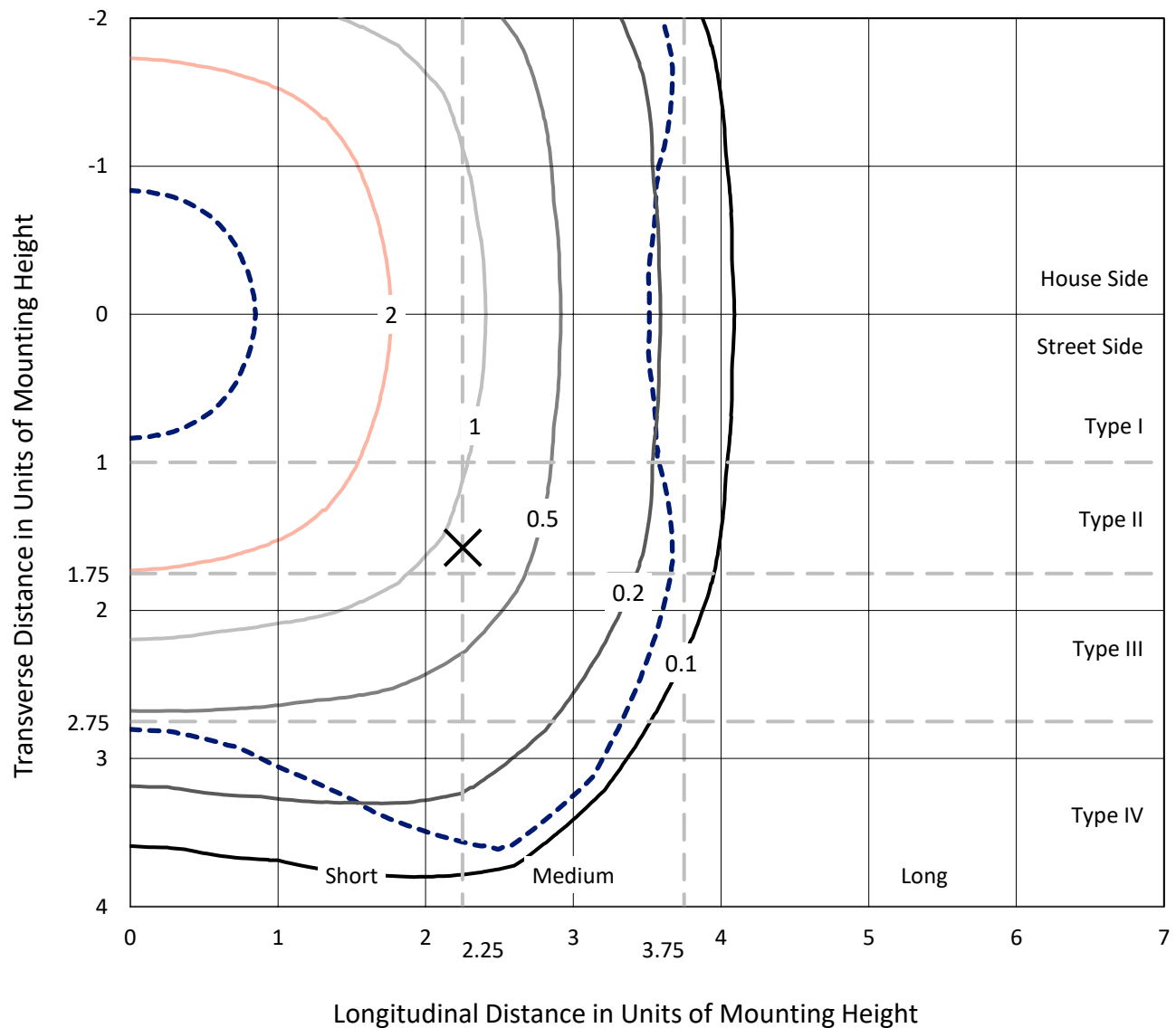


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

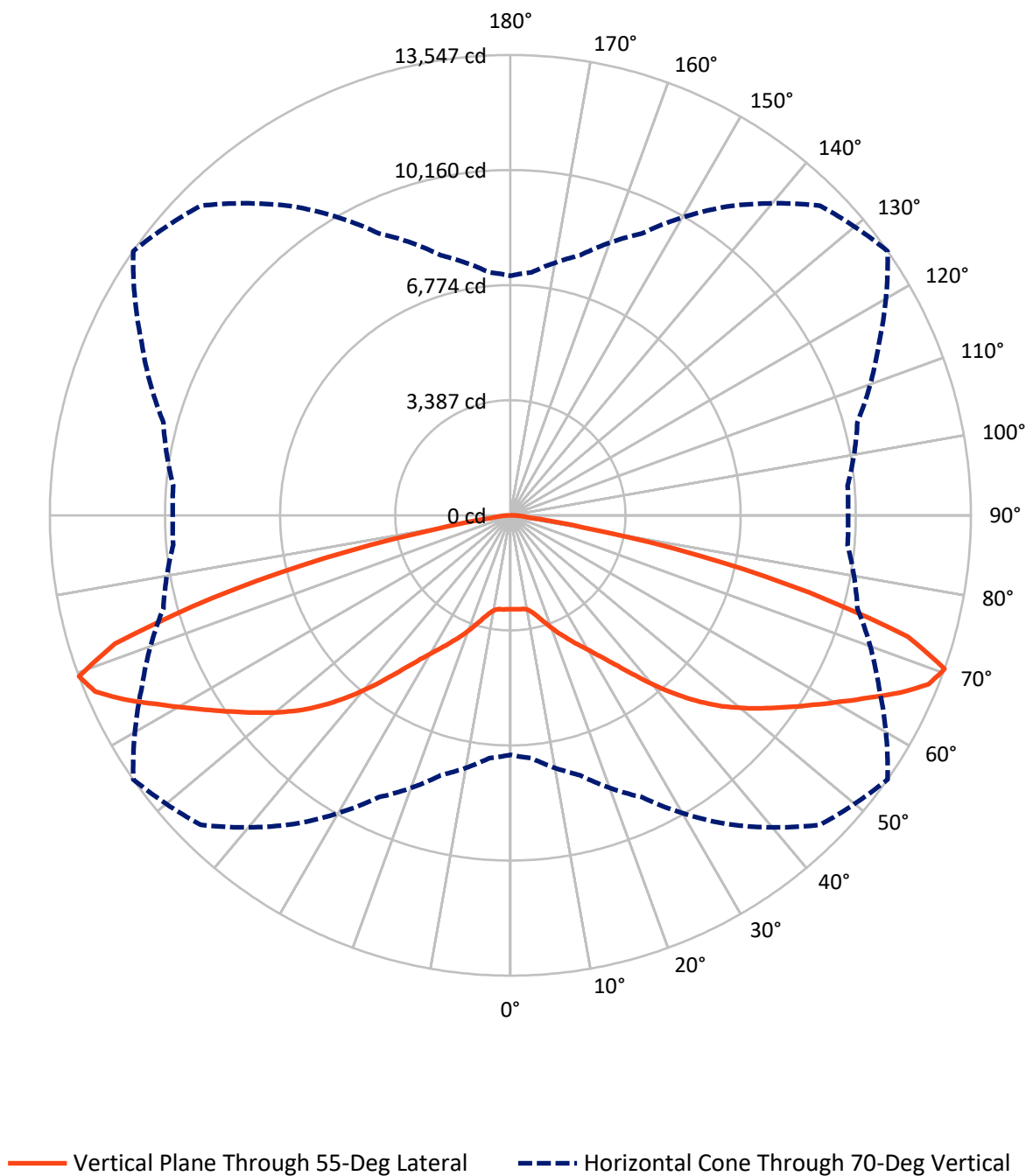


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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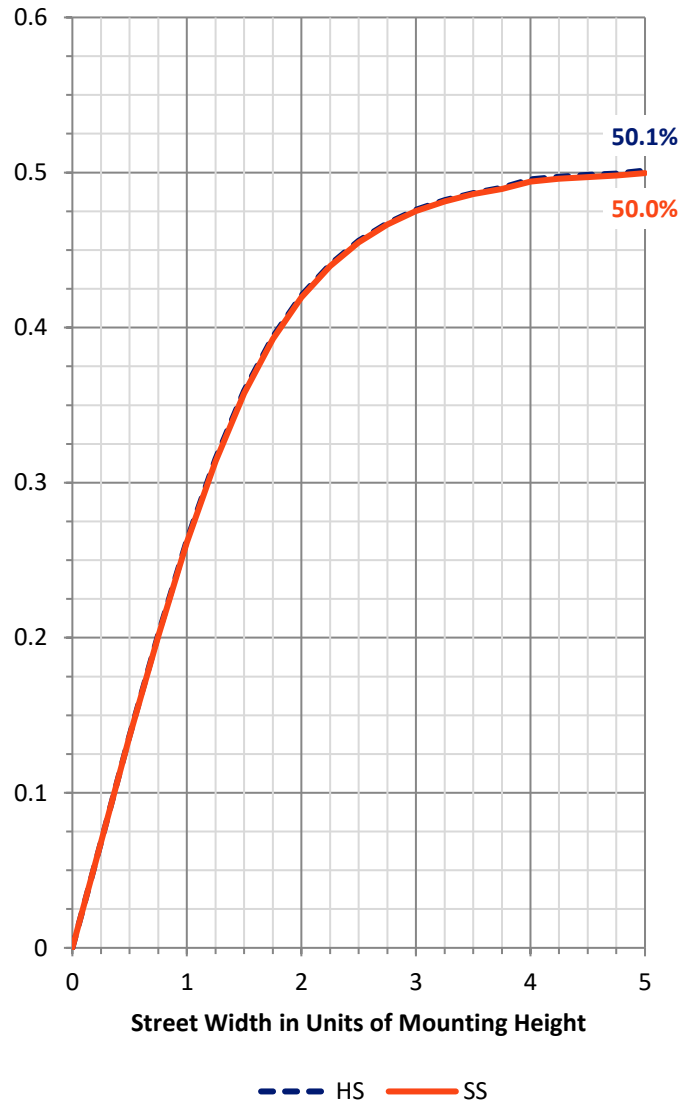
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19835.5	0.0	19835.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19835.5	0.0	19835.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39671.0	0.0	39671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	0.7
10°-20°	908.6	2.3
20°-30°	1888.0	4.8
30°-40°	3487.0	8.8
40°-50°	6125.9	15.4
50°-60°	8835.1	22.3
60°-70°	10813.2	27.3
70°-80°	6880.6	17.3
80°-90°	465.6	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°	39671.0	100.0
0°-180°	39671.0	100.0

Coefficient of Utilization



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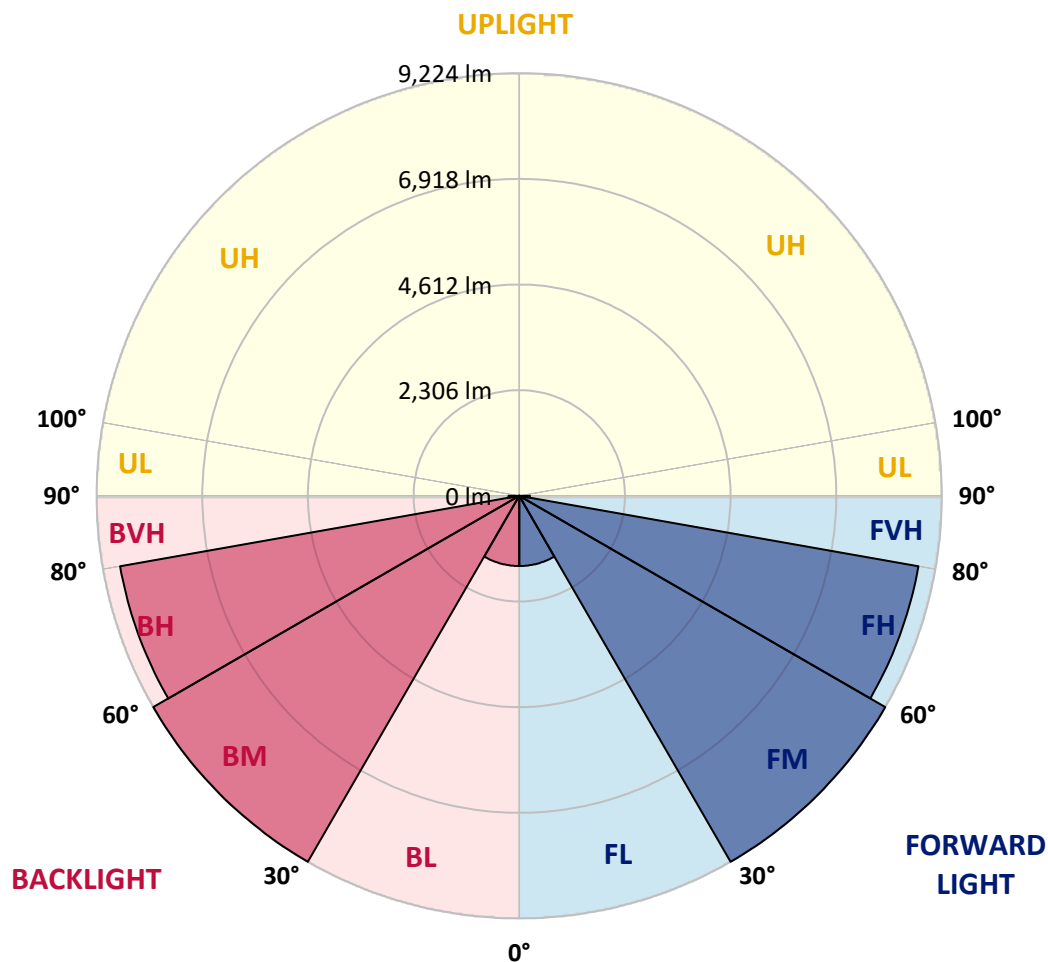
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.8	3.9			
FM	(30°-60°)	9224.0	23.3			
FH	(60°-80°)	8846.9	22.3			G4/12000
FVH	(80°-90°)	232.8	0.6			G3/500
BL	(0°-30°)	1531.8	3.9	B3/2500		
BM	(30°-60°)	9224.0	23.3	B5		
BH	(60°-80°)	8846.9	22.3	B5		G4/12000
BVH	(80°-90°)	232.8	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°	2765.4	2765.4	2765.4	2765.4	2765.4	2765.4	2765.4	2765.4	2765.4	2765.4	2765.4
2.5°	2802.3	2802.3	2794.9	2794.9	2780.2	2772.8	2765.4	2765.4	2758.1	2758.1	2750.7
5°	2817.1	2817.1	2817.1	2809.7	2802.3	2794.9	2780.2	2765.4	2758.1	2750.7	2743.3
7.5°	2824.4	2824.4	2817.1	2817.1	2809.7	2802.3	2780.2	2758.1	2750.7	2743.3	2743.3
10°	2883.4	2876.1	2868.7	2853.9	2853.9	2853.9	2824.4	2802.3	2794.9	2794.9	2794.9
12.5°	3023.6	3016.2	3001.4	2979.3	2979.3	2986.7	2942.4	2912.9	2912.9	2905.6	2905.6
15°	3230.0	3222.7	3207.9	3171.0	3163.7	3178.4	3112.0	3082.5	3082.5	3082.5	3075.2
17.5°	3458.6	3443.9	3421.8	3392.3	3392.3	3392.3	3325.9	3289.0	3266.9	3266.9	3259.5
20°	3650.4	3643.0	3643.0	3635.6	3657.8	3657.8	3569.3	3510.3	3458.6	3429.1	3421.8
22.5°	3820.0	3812.6	3827.4	3856.9	3901.1	3915.9	3812.6	3724.1	3643.0	3584.0	3569.3
25°	4048.6	4041.2	4033.9	4078.1	4151.9	4174.0	4063.4	3952.7	3871.6	3842.1	3827.4
27.5°	4292.0	4299.3	4306.7	4351.0	4410.0	4446.8	4336.2	4233.0	4166.6	4122.4	4107.6
30°	4564.8	4579.6	4601.7	4668.1	4712.3	4727.1	4631.2	4557.4	4498.5	4461.6	4439.5
32.5°	4911.4	4940.9	4970.4	5029.4	5051.5	5036.8	4992.5	4940.9	4896.7	4845.1	4837.7
35°	5427.6	5457.1	5449.8	5471.9	5479.3	5464.5	5442.4	5412.9	5390.8	5324.4	5317.0
37.5°	6076.6	6106.1	6061.9	6039.7	5988.1	5995.5	5988.1	6010.2	6017.6	5951.2	5943.9
40°	6732.9	6762.4	6703.4	6644.4	6592.8	6570.7	6607.6	6681.3	6681.3	6637.1	6637.1
42.5°	7433.5	7455.6	7359.8	7286.0	7219.6	7204.9	7227.0	7315.5	7337.6	7330.3	7330.3
45°	8134.1	8119.3	7994.0	7920.2	7861.2	7824.4	7831.7	7898.1	7942.4	7964.5	7964.5
47.5°	8672.4	8650.3	8547.1	8488.1	8451.2	8399.6	8399.6	8436.4	8458.6	8465.9	8465.9
50°	9100.2	9078.0	8974.8	8967.4	8967.4	8945.3	8923.2	8915.8	8901.0	8908.4	8908.4
52.5°	9468.9	9439.4	9365.6	9380.4	9446.8	9461.5	9432.0	9373.0	9314.0	9291.9	9299.3
55°	9867.1	9822.9	9763.9	9808.1	9940.8	9999.8	9955.6	9837.6	9734.4	9668.0	9668.0
57.5°	10184.2	10132.6	10132.6	10257.9	10501.3	10619.3	10523.4	10302.2	10125.2	10051.5	10058.8
60°	9963.0	9918.7	10095.7	10648.8	11106.0	11305.1	11142.9	10752.0	10464.4	10375.9	10390.7
62.5°	9527.9	9498.4	9719.6	10575.1	11651.7	12064.7	11821.3	11260.9	10833.2	10729.9	10729.9
65°	8886.3	8878.9	9188.6	10243.2	11777.1	12794.8	12588.3	11814.0	11260.9	11120.8	11150.3
67.5°	8222.6	8222.6	8502.8	9675.4	11629.6	13104.5	13266.8	12315.4	11467.4	11120.8	11128.1
70°	7050.0	7175.4	7920.2	9151.8	11091.3	12883.3	13547.0	11961.5	10567.7	9955.6	9933.5
72.5°	4645.9	4808.2	6290.5	8237.3	10560.3	12079.5	12226.9	10508.7	8775.7	8060.3	8023.5
75°	2802.3	2942.4	4078.1	6430.6	9284.5	9727.0	9078.0	8237.3	6555.9	5995.5	5995.5
77.5°	825.9	921.8	1880.5	4078.1	6423.2	6393.7	5597.3	4852.4	3879.0	3296.4	3340.7
80°	486.7	501.5	612.1	1858.4	2662.2	2802.3	2160.7	1349.5	1349.5	1002.9	973.4
82.5°	376.1	376.1	390.8	464.6	641.6	715.3	545.7	464.6	531.0	449.8	427.7
85°	265.5	265.5	265.5	272.9	280.2	287.6	302.4	309.7	339.2	280.2	265.5
87.5°	81.1	88.5	95.9	110.6	132.7	140.1	147.5	132.7	132.7	125.4	118.0
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)