

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: P836489

Luminaire Tested: **ARCH3-190-740-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26059 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

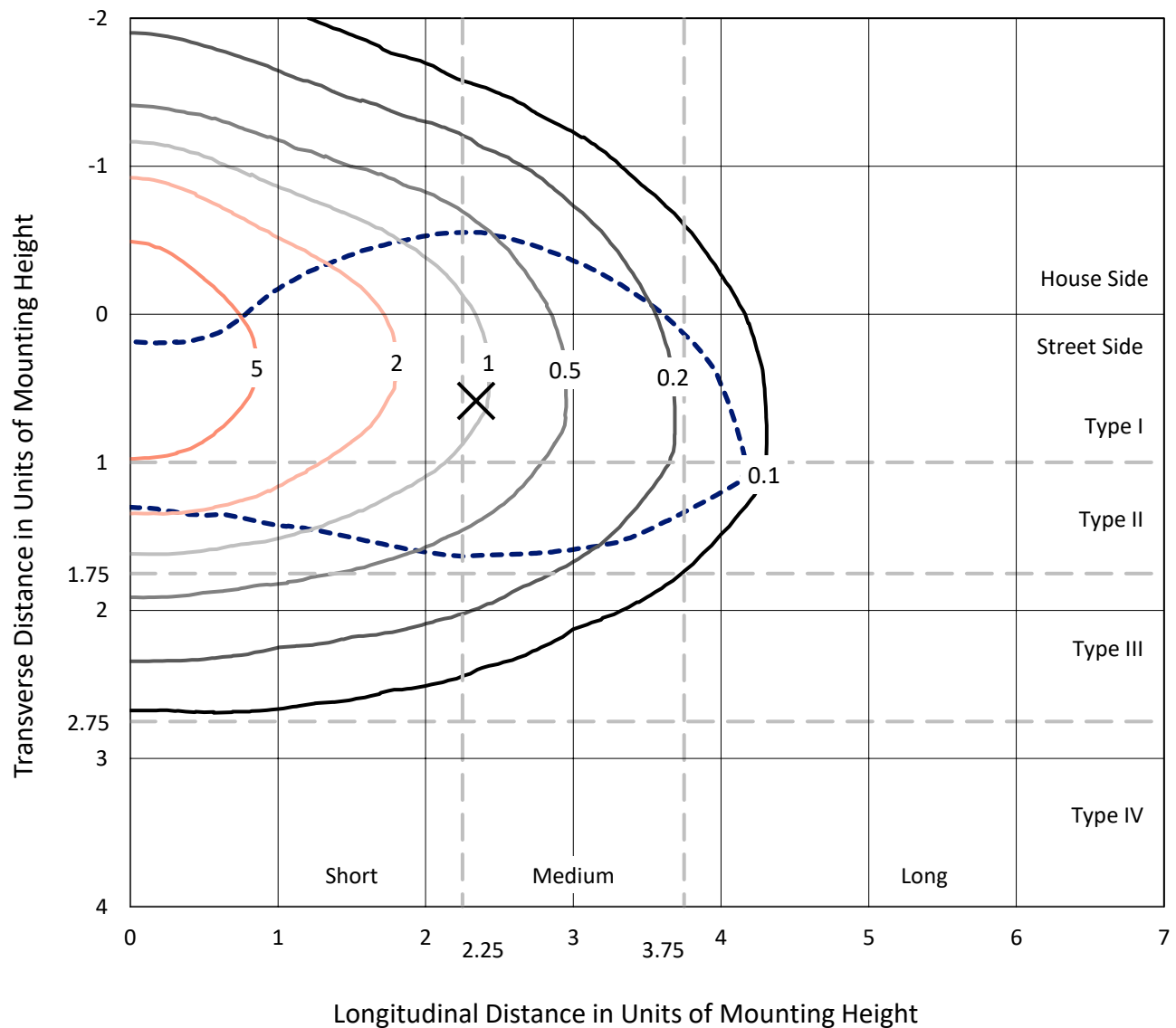


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Iso-Footcandle Lines of Horizontal Illumination

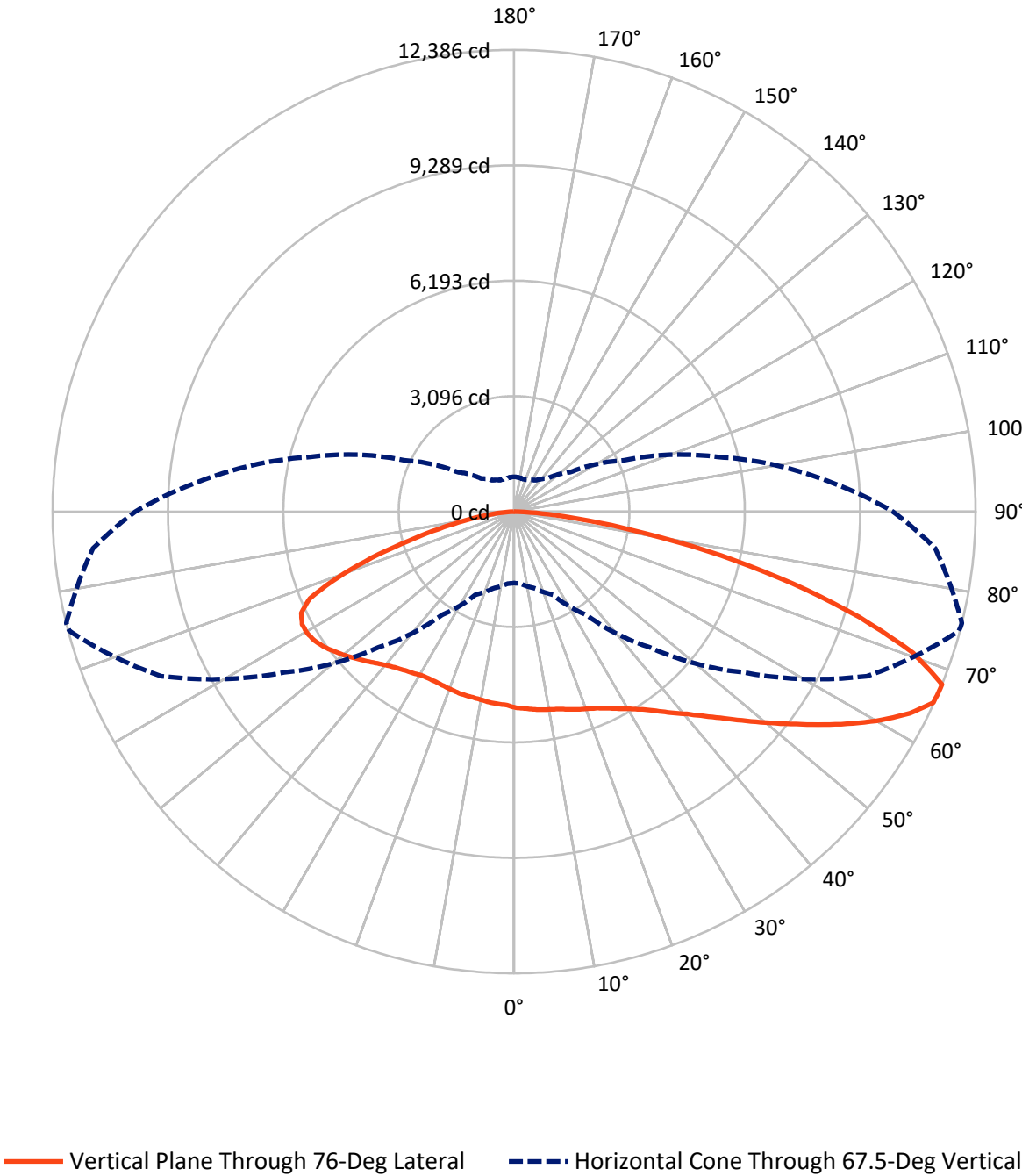
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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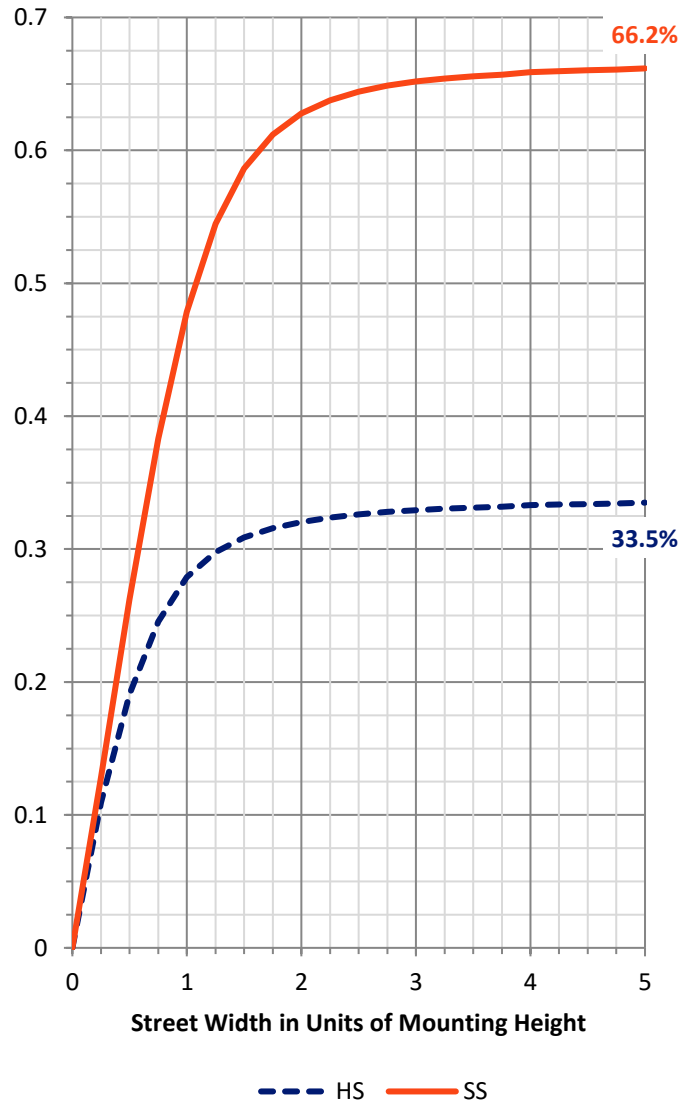
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8805.5	0.0	8805.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	17253.5	0.0	17253.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	26059.0	0.0	26059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.6	1.9
10°-20°	1551.8	6.0
20°-30°	2636.5	10.1
30°-40°	3751.4	14.4
40°-50°	4737.9	18.2
50°-60°	5129.6	19.7
60°-70°	4771.1	18.3
70°-80°	2562.5	9.8
80°-90°	410.6	1.6
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°	26059.0	100.0
0°-180°	26059.0	100.0

Coefficient of Utilization



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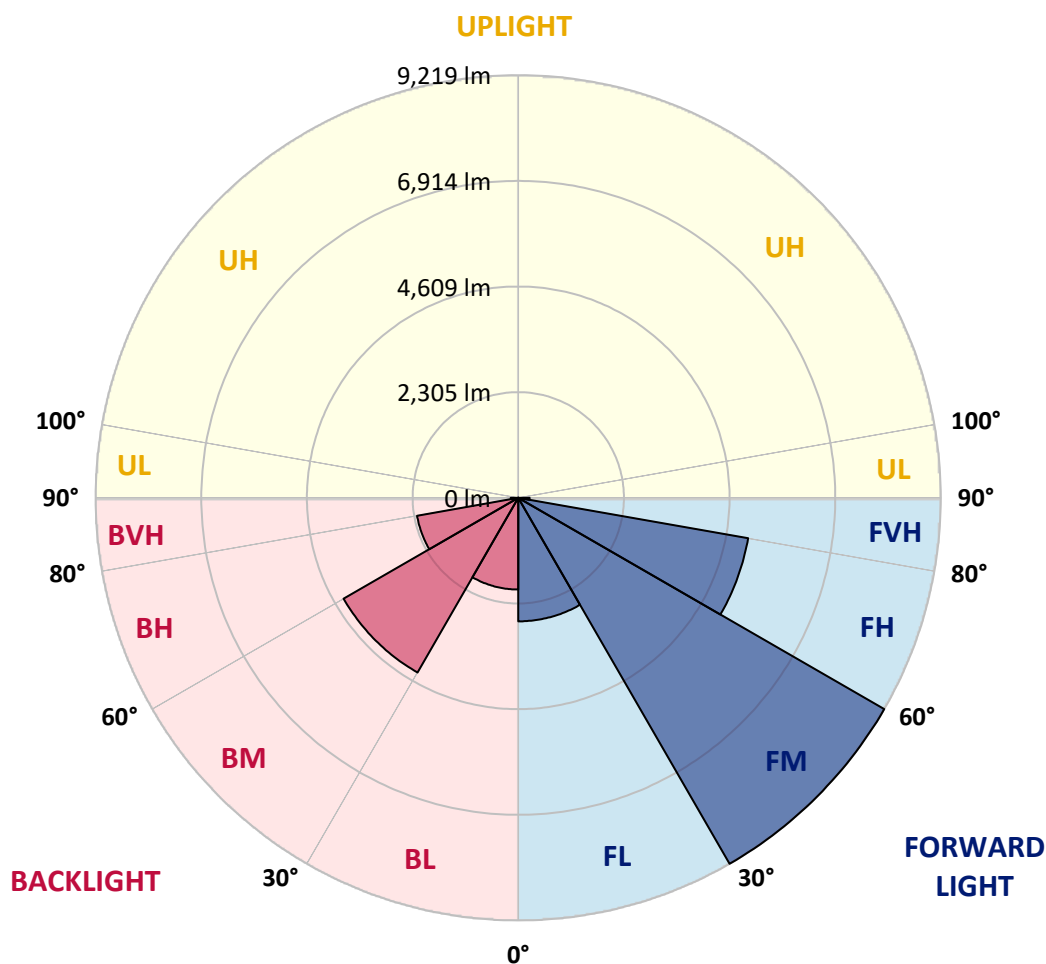
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2694.8	10.3			
FM	(30°-60°)	9218.7	35.4			
FH	(60°-80°)	5091.7	19.5			G3/7500
FVH	(80°-90°)	248.4	1.0			G3/500
BL	(0°-30°)	2001.1	7.7	B3/2500		
BM	(30°-60°)	4400.2	16.9	B3/5000		
BH	(60°-80°)	2242.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	162.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9
2.5°	5423.5	5413.8	5375.1	5380.0	5380.0	5375.1	5317.1	5292.9	5292.9	5288.1	5234.8
5°	5617.0	5602.5	5559.0	5549.3	5530.0	5505.8	5413.8	5360.6	5336.4	5331.6	5259.0
7.5°	5844.4	5825.1	5771.9	5742.8	5694.5	5631.6	5515.4	5433.2	5375.1	5370.3	5268.7
10°	6071.8	6052.5	5989.6	5936.4	5868.6	5767.0	5617.0	5496.1	5404.2	5394.5	5273.5
12.5°	6342.8	6323.4	6246.0	6178.3	6076.7	5941.2	5742.8	5578.3	5452.5	5438.0	5288.1
15°	6628.2	6599.2	6521.8	6444.4	6318.6	6144.4	5907.3	5689.6	5530.0	5505.8	5331.6
17.5°	6865.3	6826.6	6763.7	6686.3	6546.0	6342.8	6071.8	5800.9	5602.5	5583.2	5375.1
20°	7068.5	7039.4	6971.7	6899.1	6749.2	6526.6	6226.6	5912.2	5670.3	5646.1	5409.0
22.5°	7262.0	7223.3	7184.6	7131.4	6966.9	6720.1	6405.7	6047.6	5757.3	5728.3	5452.5
25°	7484.6	7441.0	7426.5	7397.5	7203.9	6952.4	6623.4	6217.0	5878.3	5844.4	5530.0
27.5°	7760.3	7711.9	7682.9	7682.9	7450.7	7189.4	6855.6	6415.3	6018.6	5989.6	5626.7
30°	8050.6	7992.6	7949.0	7949.0	7687.8	7426.5	7083.0	6613.7	6178.3	6144.4	5752.5
32.5°	8307.0	8249.0	8200.6	8195.8	7924.8	7663.6	7320.1	6831.4	6371.8	6328.2	5907.3
35°	8505.4	8452.2	8408.6	8418.3	8161.9	7905.5	7586.2	7121.7	6613.7	6565.3	6110.5
37.5°	8626.3	8607.0	8582.8	8616.7	8379.6	8137.7	7861.9	7402.3	6889.5	6845.9	6362.1
40°	8689.2	8674.7	8771.5	8815.0	8563.4	8345.7	8137.7	7692.6	7189.4	7141.0	6652.4
42.5°	8781.2	8902.1	8940.8	8931.1	8698.9	8505.4	8389.3	8007.1	7542.6	7499.1	7000.7
45°	8452.2	8423.1	8636.0	8752.1	8708.6	8607.0	8626.3	8384.4	7953.8	7910.3	7402.3
47.5°	8011.9	7973.2	8094.2	8379.6	8548.9	8645.7	8839.2	8776.3	8428.0	8389.3	7871.6
50°	7083.0	7136.2	7586.2	7968.4	8302.2	8636.0	9018.2	9197.2	8950.5	8911.8	8374.8
52.5°	6052.5	6105.7	6575.0	7455.5	8002.2	8563.4	9148.9	9618.2	9516.6	9473.0	8911.8
55°	5302.6	5418.7	5950.9	6589.5	7576.5	8336.1	9226.3	10048.7	10126.2	10087.5	9497.2
57.5°	4557.5	4644.6	5046.1	5612.2	6995.9	7939.3	9221.4	10450.3	10764.8	10726.1	10092.3
60°	3681.8	3793.1	4112.4	4722.0	6221.8	7465.2	9086.0	10764.8	11379.2	11350.2	10668.0
62.5°	3081.9	3115.7	3343.1	3870.5	5225.2	6865.3	8781.2	10934.1	11935.6	11916.3	11185.7
65°	2481.9	2486.8	2694.8	3135.1	4262.4	6120.2	8263.5	10871.2	12356.5	12366.2	11558.2
67.5°	1915.9	1940.1	2128.8	2462.6	3386.7	5152.6	7523.3	10445.5	12361.4	12385.6	11345.4
70°	1325.6	1345.0	1630.4	1954.6	2617.4	4107.6	6521.8	9318.2	11345.4	11364.7	10169.7
72.5°	933.8	943.4	1248.2	1562.7	2046.5	3096.4	4920.4	7707.1	9671.4	9685.9	8553.8
75°	696.7	706.4	880.5	1185.3	1567.5	2143.3	3362.5	5902.5	7726.5	7726.5	6754.0
77.5°	493.5	498.3	570.9	817.6	1045.0	1446.6	2022.3	3865.6	5670.3	5679.9	4920.4
80°	333.8	338.7	372.5	551.5	653.1	783.8	1098.3	2027.2	3575.4	3589.9	3125.4
82.5°	174.2	183.8	208.0	280.6	329.0	435.4	566.1	1030.5	1978.8	2017.5	1877.2
85°	67.7	67.7	77.4	91.9	121.0	169.3	261.3	391.9	895.0	924.1	827.3
87.5°	24.2	24.2	29.0	29.0	33.9	38.7	43.5	58.1	101.6	101.6	96.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9
2.5°	5215.5	5215.5	5191.3	5201.0	5196.1	5186.5	5176.8	5191.3	5176.8	5142.9	5138.1
5°	5225.2	5215.5	5176.8	5171.9	5157.4	5138.1	5113.9	5123.6	5099.4	5070.3	5065.5
7.5°	5230.0	5210.6	5157.4	5138.1	5109.0	5070.3	5031.6	5031.6	4997.8	4968.7	4963.9
10°	5220.3	5196.1	5123.6	5084.9	5031.6	4973.6	4920.4	4905.8	4867.1	4833.3	4833.3
12.5°	5225.2	5191.3	5099.4	5036.5	4963.9	4891.3	4823.6	4804.2	4770.4	4736.5	4731.7
15°	5254.2	5205.8	5089.7	5007.4	4901.0	4818.8	4746.2	4731.7	4702.6	4678.4	4678.4
17.5°	5283.2	5220.3	5075.2	4959.1	4828.4	4736.5	4668.8	4668.8	4649.4	4634.9	4634.9
20°	5297.7	5225.2	5046.1	4891.3	4741.3	4644.6	4581.7	4591.4	4586.5	4581.7	4581.7
22.5°	5331.6	5234.8	5022.0	4828.4	4649.4	4547.8	4489.8	4504.3	4499.4	4499.4	4504.3
25°	5384.8	5259.0	5002.6	4770.4	4562.3	4451.1	4388.2	4397.8	4397.8	4397.8	4397.8
27.5°	5457.4	5307.4	4997.8	4717.2	4475.2	4349.5	4272.0	4272.0	4252.7	4257.5	4262.4
30°	5568.7	5399.3	5007.4	4668.8	4383.3	4223.7	4131.7	4117.2	4112.4	4122.1	4126.9
32.5°	5704.1	5525.1	5065.5	4634.9	4286.6	4083.4	3967.2	3962.4	3947.9	3947.9	3947.9
35°	5873.5	5646.1	5118.7	4630.1	4189.8	3933.4	3807.6	3793.1	3759.2	3744.7	3744.7
37.5°	6091.2	5834.8	5181.6	4596.2	4107.6	3788.2	3638.3	3589.9	3551.2	3546.3	3546.3
40°	6357.3	6047.6	5273.5	4557.5	4020.5	3638.3	3439.9	3357.6	3362.5	3381.8	3381.8
42.5°	6671.7	6308.9	5389.7	4538.1	3894.7	3483.4	3207.7	3110.9	3144.8	3164.1	3169.0
45°	7039.4	6618.5	5520.3	4514.0	3778.6	3309.3	2960.9	2840.0	2854.5	2859.3	2864.2
47.5°	7465.2	6962.0	5655.7	4494.6	3647.9	3091.6	2690.0	2530.3	2525.5	2496.5	2506.1
50°	7910.3	7324.9	5796.1	4460.7	3488.3	2835.1	2404.5	2215.9	2177.1	2133.6	2138.4
52.5°	8384.4	7697.4	5926.7	4407.5	3289.9	2573.9	2133.6	1930.4	1853.0	1804.6	1814.3
55°	8907.0	8079.6	6052.5	4325.3	3081.9	2312.6	1891.7	1683.7	1586.9	1548.2	1553.0
57.5°	9385.9	8447.3	6144.4	4223.7	2854.5	2075.5	1678.8	1475.6	1412.7	1407.9	1412.7
60°	9850.4	8757.0	6183.1	4083.4	2622.3	1857.8	1480.5	1325.6	1282.1	1306.3	1311.1
62.5°	10242.3	8955.3	6163.7	3894.7	2385.2	1649.8	1320.8	1209.5	1180.5	1228.9	1233.7
65°	10469.7	9018.2	6028.3	3623.7	2128.8	1446.6	1170.8	1049.9	1035.4	1064.4	1078.9
67.5°	10169.7	8626.3	5660.6	3251.2	1843.3	1257.9	1025.7	928.9	904.7	928.9	928.9
70°	9013.4	7474.9	4789.7	2661.0	1528.8	1074.1	890.2	822.5	803.1	822.5	817.6
72.5°	7508.7	6217.0	3773.7	2075.5	1204.7	904.7	774.1	711.2	691.8	672.5	662.8
75°	5825.1	4722.0	2738.4	1524.0	909.6	725.7	648.3	590.2	541.9	561.2	551.5
77.5°	4267.2	3314.1	1940.1	1054.7	653.1	561.2	508.0	464.5	430.6	469.3	464.5
80°	2748.0	2143.3	1296.6	706.4	449.9	391.9	372.5	348.3	382.2	498.3	508.0
82.5°	1678.8	1359.5	774.1	459.6	295.1	261.3	241.9	241.9	391.9	430.6	435.4
85°	749.9	720.9	420.9	237.1	164.5	150.0	135.5	174.2	159.7	116.1	121.0
87.5°	121.0	125.8	91.9	82.2	62.9	62.9	48.4	33.9	24.2	14.5	14.5
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)