

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: P841872

Luminaire Tested: **ARCH4-240-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30542 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 240.2
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



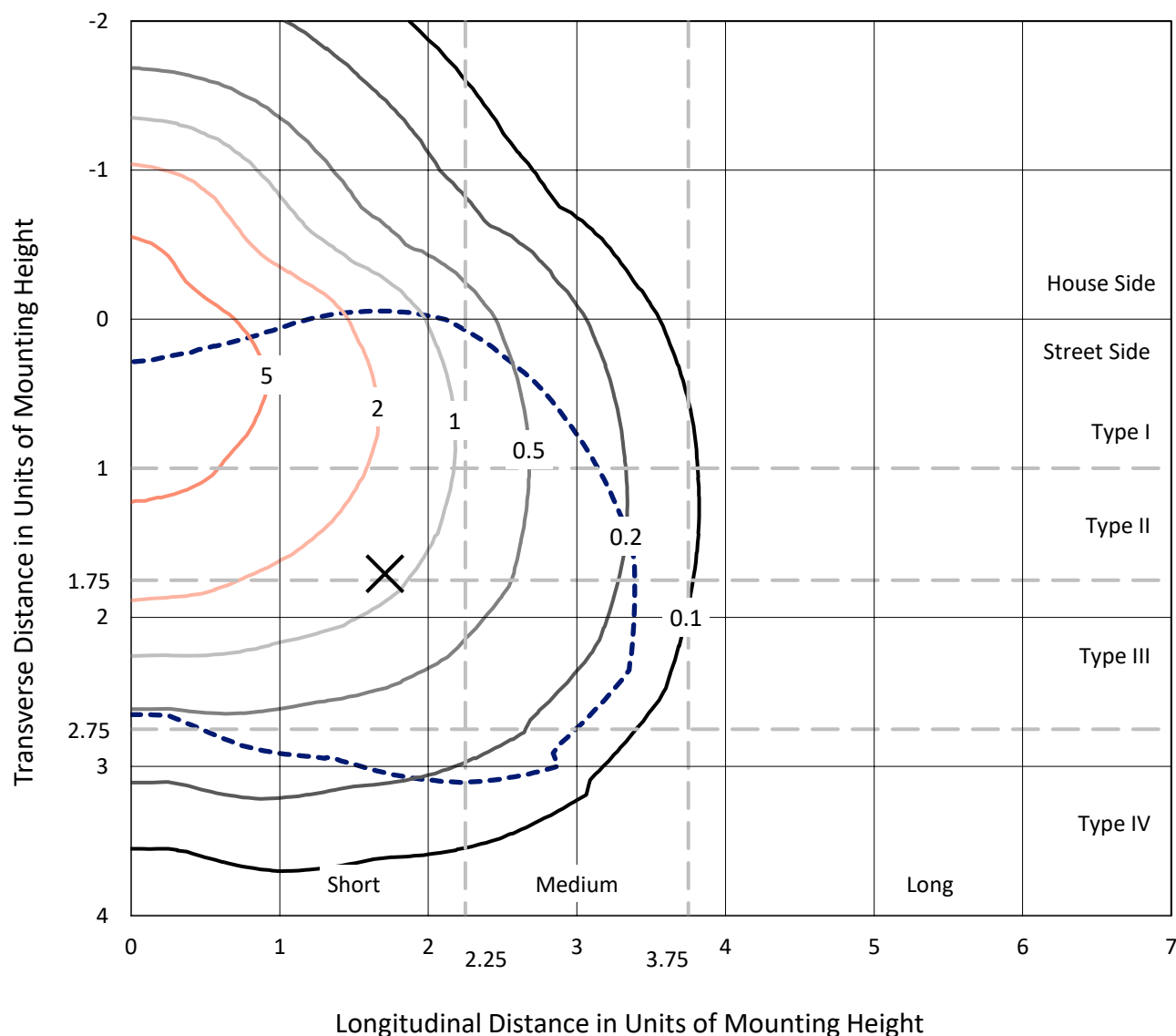
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

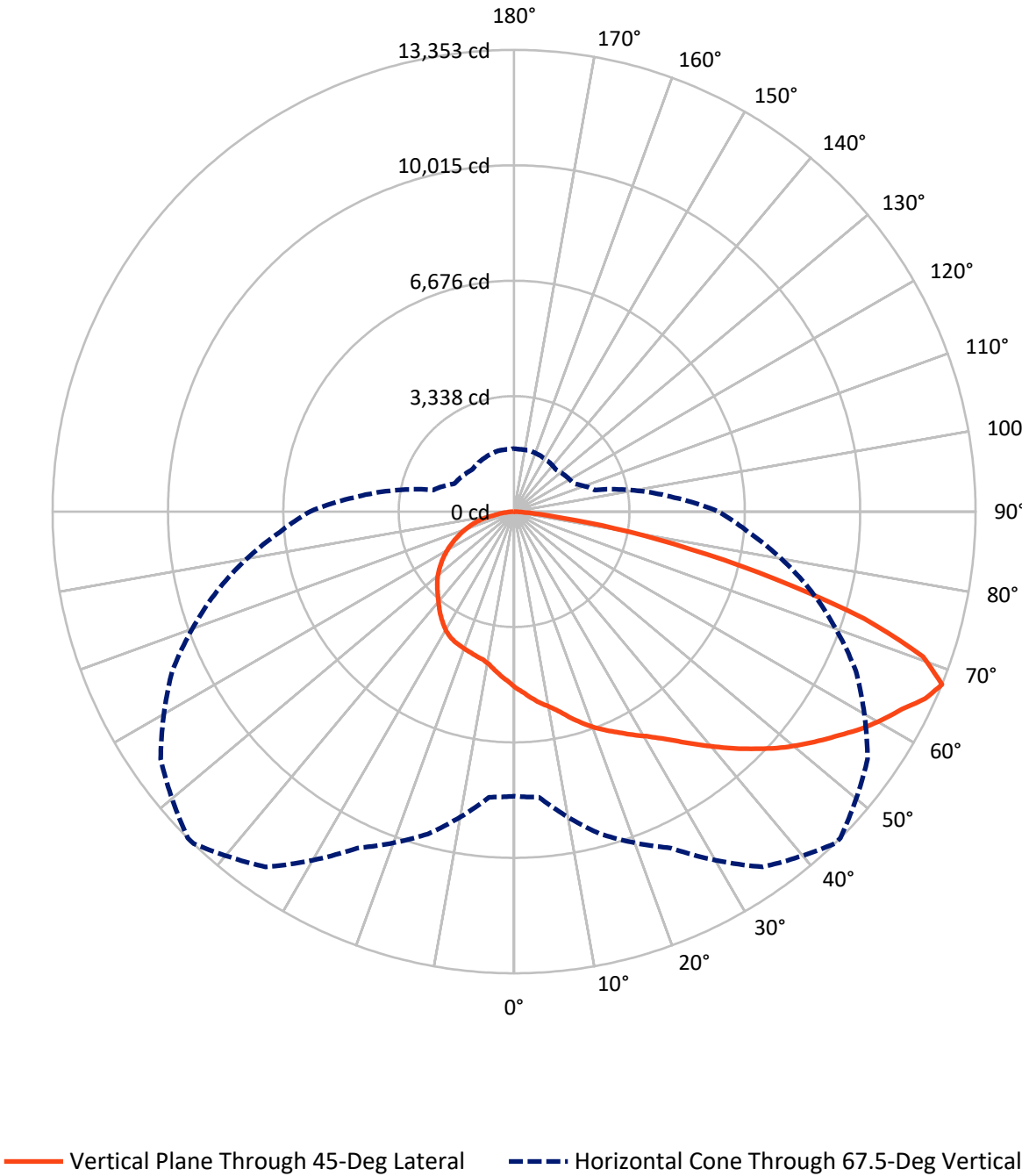


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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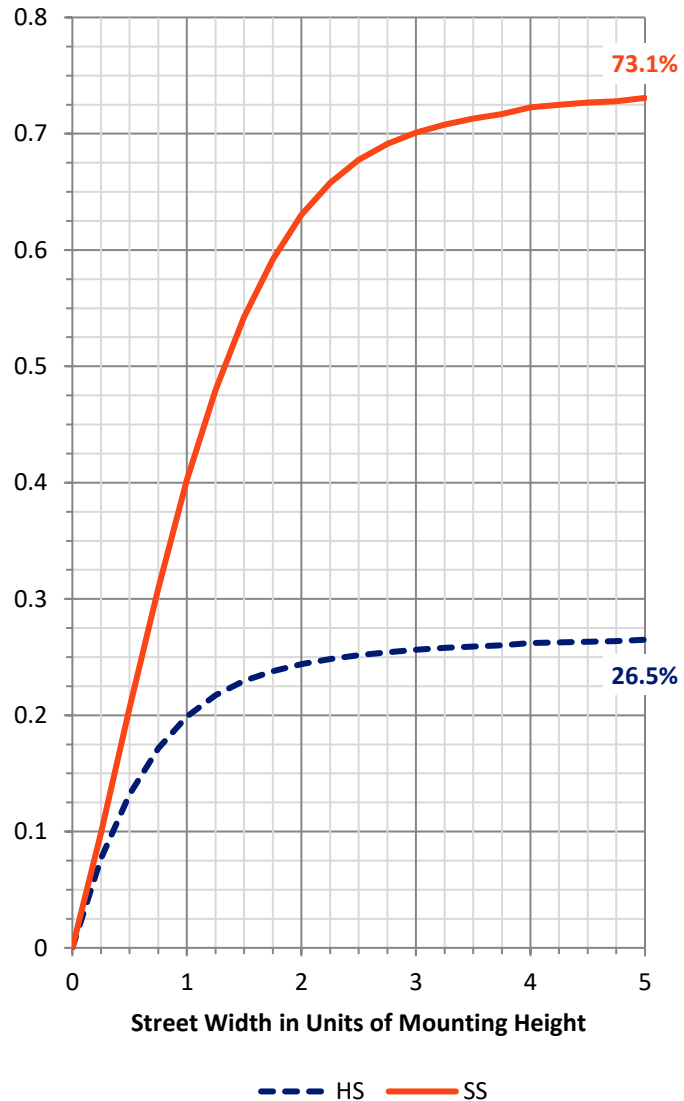
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8159.3	0.0	8159.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	22382.7	0.0	22382.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	30542.0	0.0	30542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.7	1.6
10°-20°	1506.6	4.9
20°-30°	2600.5	8.5
30°-40°	3834.9	12.6
40°-50°	5195.5	17.0
50°-60°	6350.2	20.8
60°-70°	6549.3	21.4
70°-80°	3587.3	11.7
80°-90°	430.0	1.4
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°	30542.0	100.0
0°-180°	30542.0	100.0

Coefficient of Utilization



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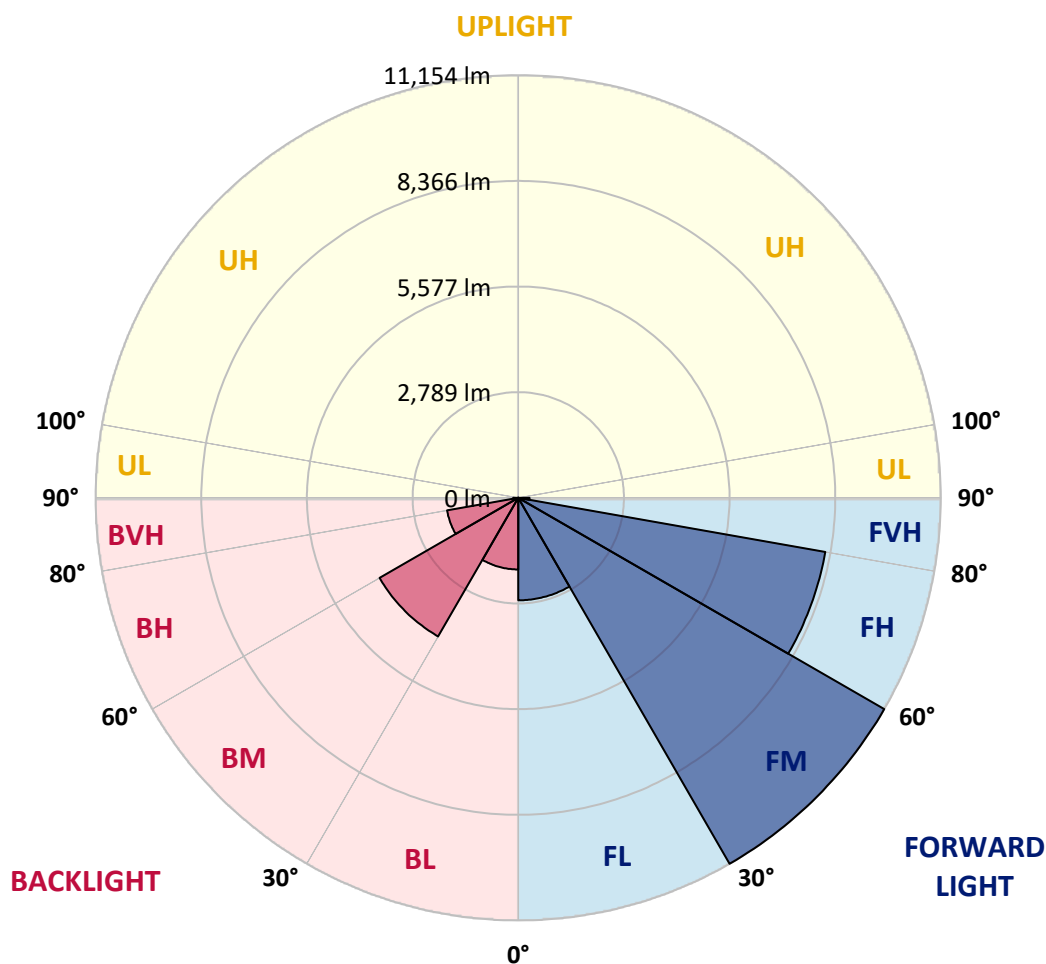
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2703.8	8.9			
FM	(30°-60°)	11154.2	36.5			
FH	(60°-80°)	8228.5	26.9			G4/12000
FVH	(80°-90°)	296.2	1.0			G3/500
BL	(0°-30°)	1891.0	6.2	B3/2500		
BM	(30°-60°)	4226.4	13.8	B3/5000		
BH	(60°-80°)	1908.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	133.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8
2.5°	5316.9	5312.3	5321.6	5289.0	5247.2	5242.6	5242.6	5214.7	5182.1	5117.1	5065.9
5°	5567.9	5558.6	5563.2	5516.8	5461.0	5433.1	5428.5	5368.0	5293.7	5191.4	5098.5
7.5°	5800.3	5791.0	5786.3	5735.2	5651.5	5605.1	5600.4	5512.1	5423.8	5265.8	5131.0
10°	6018.7	6009.4	6000.1	5930.4	5828.2	5758.4	5749.1	5637.6	5526.1	5330.9	5158.9
12.5°	6297.6	6279.0	6269.7	6186.0	6037.3	5962.9	5949.0	5800.3	5660.8	5423.8	5214.7
15°	6590.4	6576.4	6562.5	6483.5	6316.2	6218.6	6195.3	6009.4	5818.9	5544.6	5298.3
17.5°	6808.8	6794.9	6794.9	6725.2	6571.8	6460.2	6441.6	6218.6	5981.5	5656.2	5363.4
20°	6943.6	6929.6	6943.6	6901.8	6785.6	6692.6	6674.0	6427.7	6144.2	5758.4	5419.2
22.5°	7041.2	7027.2	7050.5	7031.9	6948.2	6892.5	6878.5	6636.8	6311.5	5865.3	5474.9
25°	7213.2	7213.2	7213.2	7180.6	7101.6	7083.0	7083.0	6873.9	6525.3	6004.8	5558.6
27.5°	7557.1	7538.5	7515.3	7422.3	7287.5	7282.9	7310.8	7115.6	6771.6	6186.0	5660.8
30°	8063.7	8054.4	7966.1	7770.9	7543.1	7519.9	7538.5	7375.8	7036.5	6376.6	5777.0
32.5°	8719.0	8686.5	8505.2	8212.4	7887.1	7780.2	7817.4	7645.4	7315.4	6571.8	5888.6
35°	9183.8	9193.1	9062.9	8798.0	8412.2	8128.7	8156.6	7947.5	7617.5	6790.2	6028.0
37.5°	9718.2	9750.8	9555.6	9355.7	8997.9	8514.5	8542.4	8258.9	7919.6	7064.4	6176.7
40°	10457.2	10392.1	10062.2	9825.1	9430.1	8918.8	8942.1	8607.5	8268.2	7324.7	6348.7
42.5°	11075.4	10959.2	10559.5	10257.4	9783.3	9346.4	9369.7	8983.9	8621.4	7612.9	6539.2
45°	11963.1	11642.4	11066.1	10917.3	10145.8	9764.7	9788.0	9383.6	8993.2	7919.6	6743.7
47.5°	12478.9	11967.7	11600.5	11521.5	10545.5	10196.9	10224.8	9806.5	9392.9	8268.2	6957.5
50°	12446.4	12116.4	12009.5	11814.3	10898.7	10601.3	10629.2	10243.4	9797.2	8612.1	7162.0
52.5°	12232.6	12293.0	12237.3	11911.9	11252.0	10991.7	11024.2	10675.7	10210.9	8932.8	7352.6
55°	12562.6	12604.4	12497.5	12070.0	11642.4	11382.1	11419.3	11131.1	10619.9	9216.3	7515.3
57.5°	12957.7	12808.9	12702.0	12348.8	12046.7	11805.0	11846.9	11595.9	10973.1	9444.0	7640.7
60°	12939.1	12627.7	12734.6	12367.4	12320.9	12195.4	12232.6	11977.0	11242.7	9611.3	7691.9
62.5°	11986.3	11819.0	12358.1	12232.6	12544.0	12544.0	12590.5	12209.4	11405.3	9681.1	7664.0
65°	10331.7	10341.0	11289.1	11809.7	12808.9	13022.7	13059.9	12353.5	11312.4	9476.6	7403.7
67.5°	8231.0	8291.4	9653.2	10736.1	12544.0	13348.1	13352.7	12483.6	10912.7	8900.3	6799.5
70°	6023.4	6069.8	7677.9	8993.2	11293.8	12627.7	12553.3	12116.4	10043.6	7896.4	5856.0
72.5°	4071.3	4113.2	5767.7	6906.4	9267.4	10754.7	10592.0	10708.2	8561.0	6488.1	4708.1
75°	2737.5	2788.6	4103.9	4940.5	6818.1	8165.9	7803.4	8110.2	6622.9	4912.6	3434.6
77.5°	1724.3	1756.8	2607.3	3239.4	4656.9	5558.6	5196.1	5200.7	3815.7	2644.5	1845.1
80°	1096.8	1106.1	1580.2	1868.4	2695.6	3341.7	2955.9	2402.8	1719.6	1403.6	1101.5
82.5°	636.7	622.8	943.5	1055.0	1282.8	1268.8	1050.4	994.6	752.9	701.8	562.4
85°	255.6	237.0	413.6	385.8	390.4	413.6	306.7	306.7	246.3	190.6	139.4
87.5°	51.1	51.1	55.8	51.1	51.1	55.8	41.8	41.8	37.2	37.2	37.2
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°	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8	5093.8
2.5°	5056.6	5047.3	5024.1	4963.7	4931.2	4912.6	4884.7	4875.4	4870.7	4875.4	4889.3
5°	5070.6	5038.1	4973.0	4875.4	4810.3	4768.5	4722.0	4703.4	4689.5	4689.5	4703.4
7.5°	5079.9	5028.8	4917.2	4773.1	4680.2	4615.1	4559.3	4536.1	4531.5	4545.4	4550.1
10°	5084.5	5010.2	4852.1	4670.9	4550.1	4466.4	4410.6	4396.7	4410.6	4438.5	4443.2
12.5°	5117.1	5014.8	4815.0	4601.2	4457.1	4373.4	4331.6	4331.6	4368.8	4419.9	4424.6
15°	5172.8	5047.3	4796.4	4545.4	4396.7	4322.3	4308.4	4331.6	4387.4	4466.4	4475.7
17.5°	5214.7	5065.9	4754.5	4471.0	4317.7	4271.2	4294.4	4350.2	4429.2	4536.1	4545.4
20°	5242.6	5065.9	4694.1	4382.7	4238.7	4229.4	4294.4	4382.7	4466.4	4591.9	4605.8
22.5°	5270.4	5056.6	4624.4	4275.8	4150.4	4178.2	4299.1	4410.6	4494.3	4629.1	4652.3
25°	5321.6	5070.6	4554.7	4168.9	4057.4	4136.4	4294.4	4429.2	4517.5	4656.9	4694.1
27.5°	5391.3	5103.1	4503.6	4071.3	3964.4	4071.3	4261.9	4424.6	4517.5	4652.3	4694.1
30°	5465.6	5140.3	4443.2	3964.4	3857.6	3978.4	4192.2	4373.4	4480.3	4605.8	4656.9
32.5°	5544.6	5182.1	4392.0	3848.3	3727.4	3852.9	4089.9	4294.4	4410.6	4526.8	4582.6
35°	5651.5	5256.5	4364.1	3755.3	3611.2	3722.8	3959.8	4192.2	4317.7	4424.6	4489.6
37.5°	5781.7	5349.4	4350.2	3662.3	3485.7	3578.7	3820.4	4066.7	4201.5	4289.8	4350.2
40°	5930.4	5465.6	4345.6	3574.0	3360.3	3430.0	3676.3	3922.6	4052.8	4122.5	4173.6
42.5°	6097.7	5595.8	4336.3	3485.7	3234.8	3290.5	3536.9	3778.5	3890.1	3950.5	3997.0
45°	6274.3	5725.9	4317.7	3378.8	3100.0	3165.1	3392.8	3606.6	3722.8	3773.9	3825.0
47.5°	6450.9	5856.0	4280.5	3258.0	2979.1	3039.6	3239.4	3425.3	3518.3	3564.7	3615.9
50°	6622.9	5972.2	4192.2	3118.6	2853.7	2909.4	3062.8	3188.3	3258.0	3295.2	3346.3
52.5°	6776.3	6051.2	4066.7	2955.9	2728.2	2756.1	2858.3	2965.2	3021.0	3025.6	3072.1
55°	6906.4	6093.1	3885.4	2788.6	2593.4	2598.0	2653.8	2737.5	2760.7	2742.1	2774.6
57.5°	6980.8	6069.8	3685.6	2616.6	2454.0	2435.4	2477.2	2519.0	2523.7	2477.2	2509.7
60°	6999.4	5962.9	3425.3	2444.7	2314.5	2263.4	2277.3	2268.1	2258.8	2240.2	2268.1
62.5°	6906.4	5735.2	3137.2	2277.3	2165.8	2086.8	2082.1	2077.5	2091.4	2096.1	2100.7
65°	6567.1	5307.6	2793.2	2105.4	2007.8	1900.9	1896.2	1952.0	1970.6	1942.7	1952.0
67.5°	5911.8	4652.3	2416.8	1905.5	1807.9	1715.0	1752.2	1784.7	1817.2	1807.9	1817.2
70°	4982.3	3820.4	2072.9	1682.4	1589.5	1538.4	1580.2	1608.1	1612.7	1603.4	1612.7
72.5°	3918.0	2983.8	1752.2	1454.7	1371.1	1347.8	1398.9	1422.2	1464.0	1482.6	1487.2
75°	2830.4	2203.0	1436.1	1208.4	1138.7	1138.7	1185.2	1227.0	1264.2	1240.9	1227.0
77.5°	1580.2	1315.3	1031.8	831.9	845.9	910.9	929.5	976.0	1013.2	1008.5	999.2
80°	957.4	822.6	697.1	539.1	534.5	585.6	706.4	785.5	804.0	762.2	757.6
82.5°	497.3	432.2	371.8	302.1	334.6	390.4	409.0	492.7	543.8	525.2	548.4
85°	125.5	120.8	134.8	139.4	172.0	190.6	209.1	246.3	162.7	79.0	79.0
87.5°	37.2	37.2	46.5	46.5	60.4	74.4	69.7	69.7	37.2	4.6	0.0
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)