

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: P841879

Luminaire Tested: **ARCH4-240-727-U-T3**

Issue Date: 5/27/2024

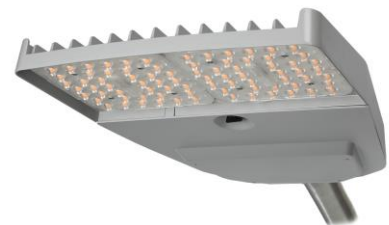
Test Information

Test Method: LM-79-08
Report Number: P841879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34552 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
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



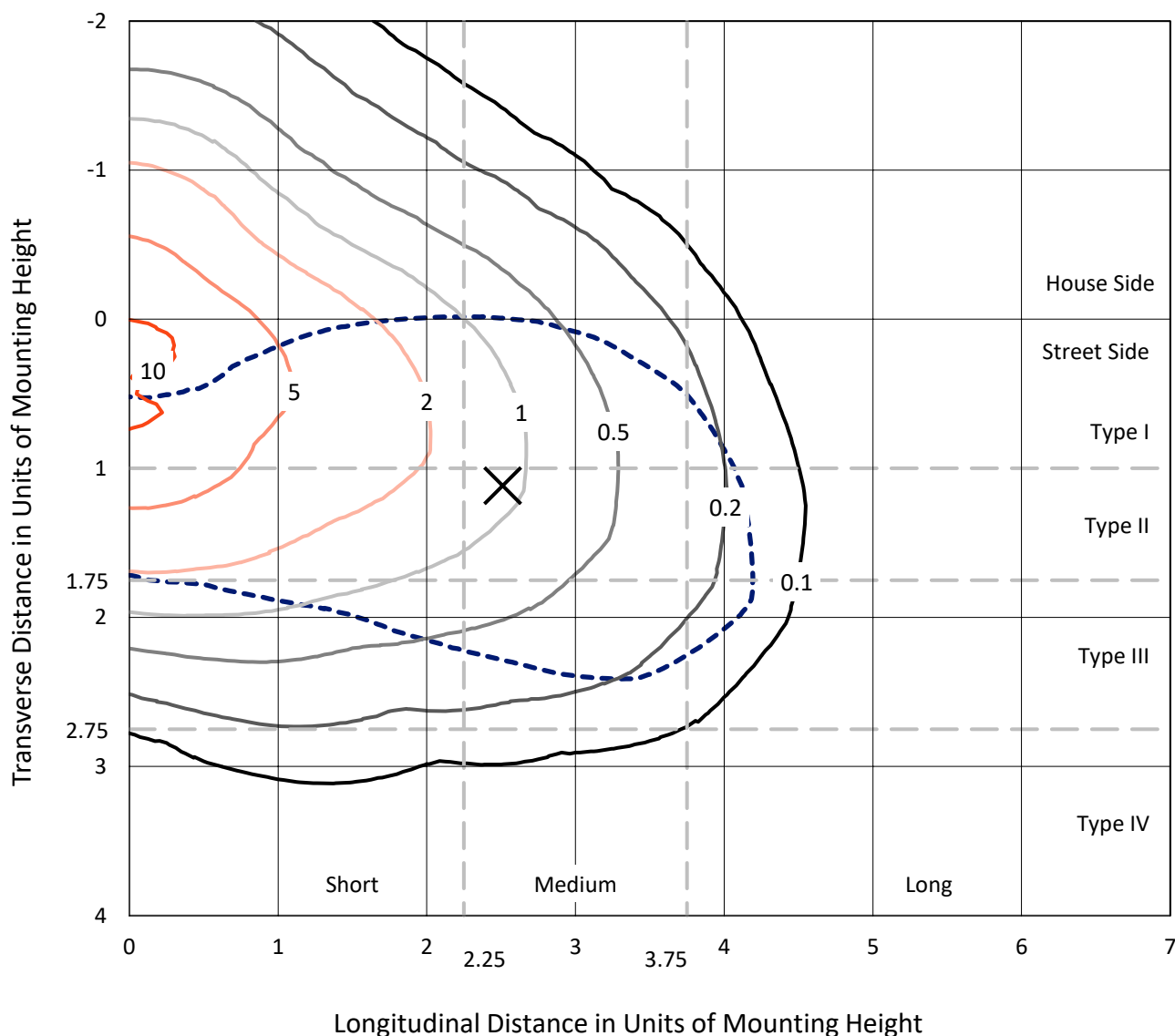
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

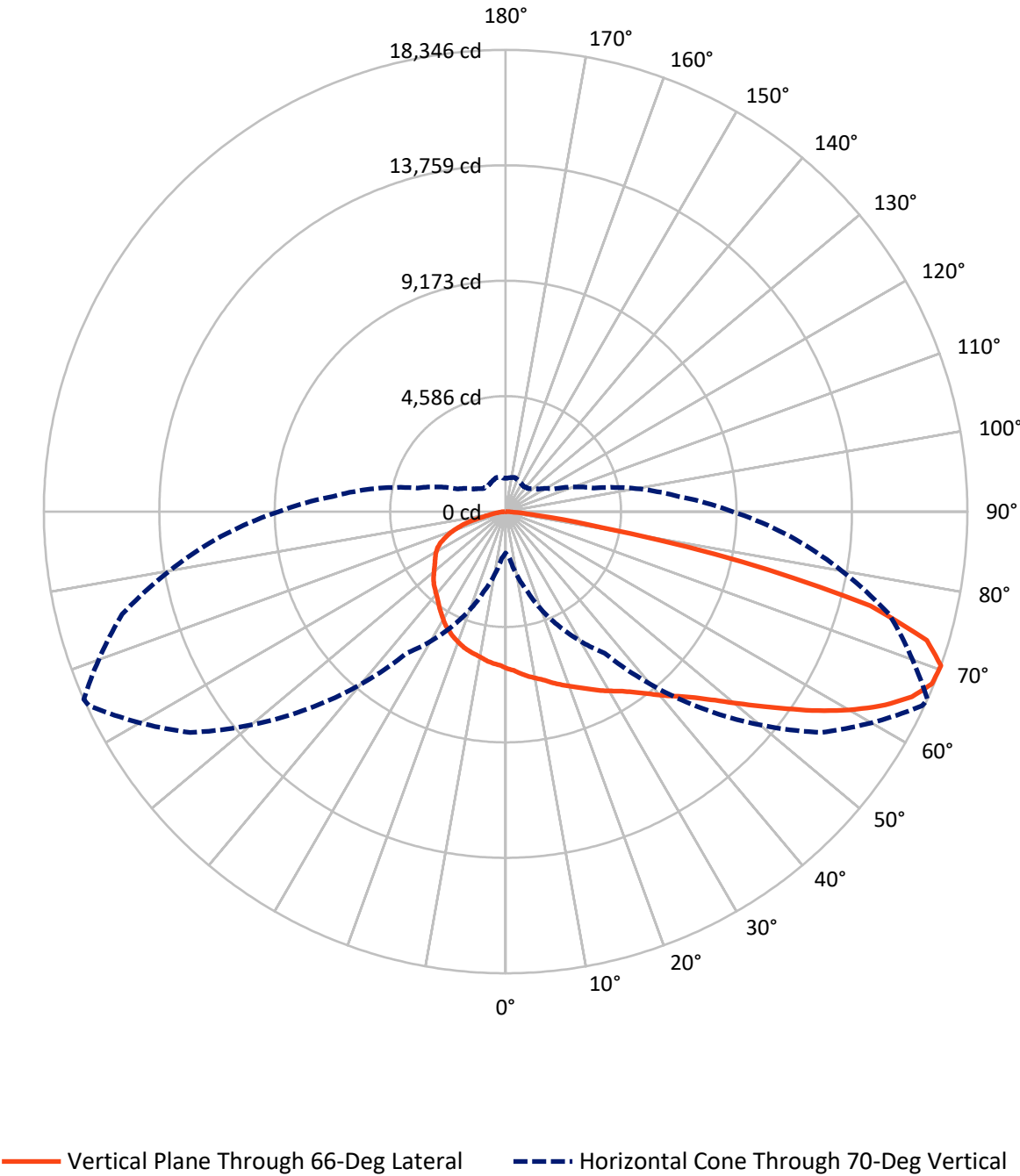
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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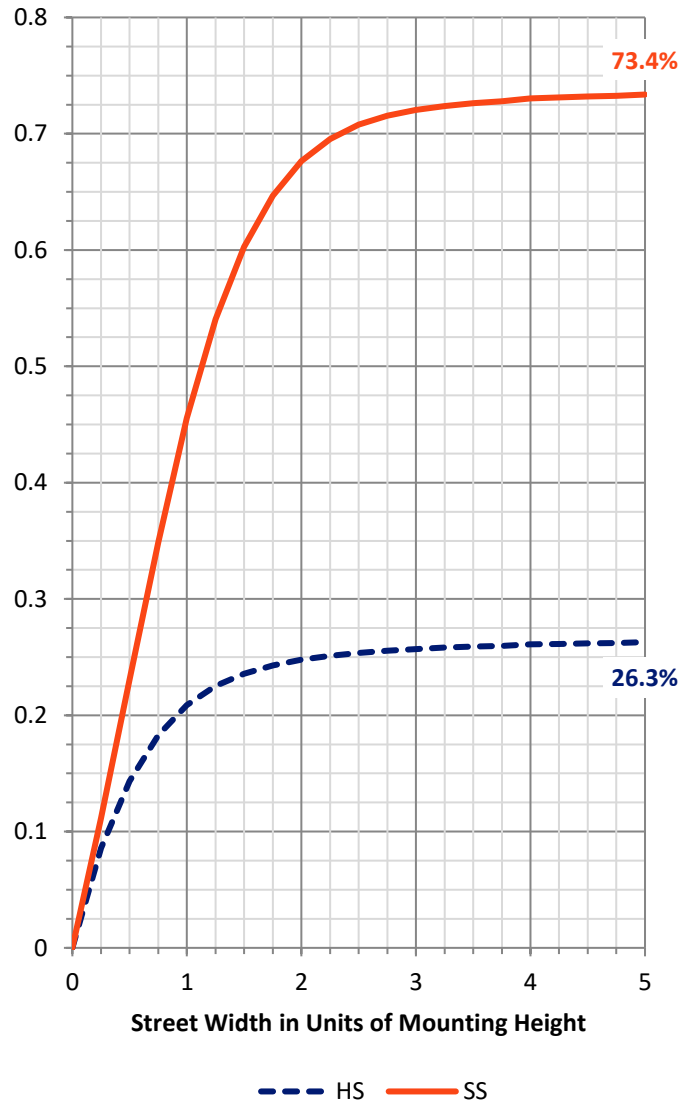
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9155.5	0.0	9155.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	25396.5	0.0	25396.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	34552.0	0.0	34552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.2	1.7
10°-20°	1797.4	5.2
20°-30°	3013.0	8.7
30°-40°	4511.5	13.1
40°-50°	6031.8	17.5
50°-60°	7042.4	20.4
60°-70°	7002.5	20.3
70°-80°	4145.6	12.0
80°-90°	408.6	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°	34552.0	100.0
0°-180°	34552.0	100.0

Coefficient of Utilization



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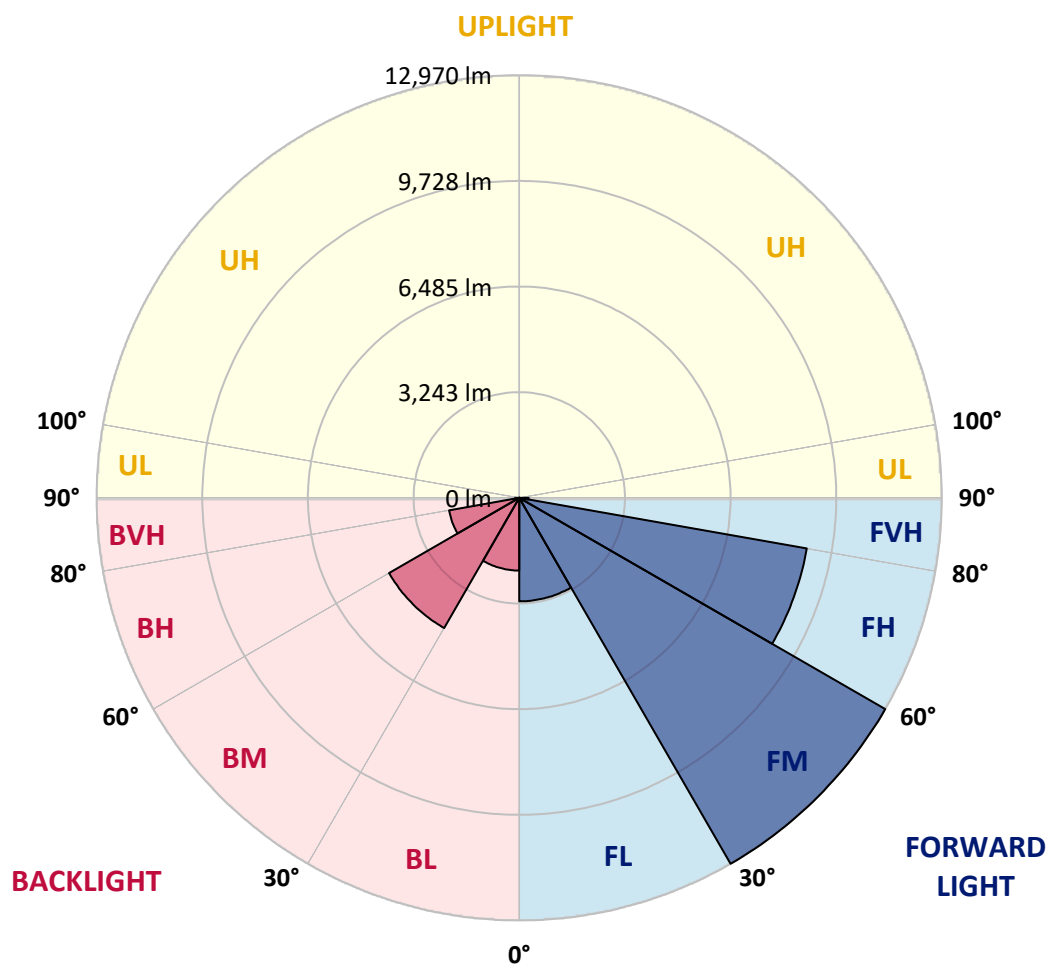
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3177.9	9.2			
FM	(30°-60°)	12970.4	37.5			
FH	(60°-80°)	8961.1	25.9			G4/12000
FVH	(80°-90°)	287.2	0.8			G3/500
BL	(0°-30°)	2231.7	6.5	B3/2500		
BM	(30°-60°)	4615.3	13.4	B3/5000		
BH	(60°-80°)	2187.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	121.4	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8
2.5°	6465.1	6454.9	6449.8	6429.4	6383.6	6404.0	6358.1	6327.6	6322.5	6251.1	6210.4
5°	6730.0	6724.9	6714.7	6684.2	6612.9	6623.0	6546.6	6490.6	6475.3	6363.2	6276.6
7.5°	6954.2	6944.0	6938.9	6898.2	6821.7	6816.6	6724.9	6643.4	6617.9	6465.1	6332.6
10°	7127.4	7112.1	7122.3	7081.6	7000.0	6984.8	6867.6	6760.6	6735.1	6541.5	6358.1
12.5°	7275.2	7265.0	7280.3	7244.6	7178.4	7163.1	7045.9	6908.3	6877.8	6653.6	6414.2
15°	7438.2	7402.5	7433.1	7417.8	7372.0	7366.9	7259.9	7107.0	7066.3	6796.3	6500.8
17.5°	7524.8	7504.4	7540.1	7545.2	7524.8	7560.5	7458.6	7275.2	7239.5	6928.7	6577.2
20°	7585.9	7555.4	7596.1	7626.7	7642.0	7713.3	7631.8	7453.5	7412.7	7056.1	6648.5
22.5°	7794.8	7728.6	7733.7	7754.1	7764.2	7866.1	7815.2	7642.0	7601.2	7214.0	6735.1
25°	8319.6	8187.1	8100.5	8039.4	7968.0	8054.6	8024.1	7855.9	7820.3	7402.5	6842.1
27.5°	9134.7	8966.6	8793.4	8615.0	8334.8	8299.2	8248.2	8095.4	8054.6	7591.0	6949.1
30°	10061.9	9893.8	9690.0	9404.7	8880.0	8604.9	8487.7	8319.6	8273.7	7759.1	7051.0
32.5°	10984.1	10836.3	10632.5	10286.1	9537.2	8976.8	8727.1	8553.9	8508.1	7942.6	7173.3
35°	11702.4	11610.7	11478.2	11045.2	10189.3	9414.9	9073.6	8864.7	8813.7	8233.0	7397.4
37.5°	12283.2	12217.0	12104.9	11651.5	10663.1	9853.0	9471.0	9231.5	9175.5	8548.8	7636.9
40°	13139.1	12965.9	12874.2	12217.0	11075.8	10250.4	9919.3	9669.6	9608.5	8885.1	7830.5
42.5°	13867.6	13740.3	13628.2	12721.3	11468.1	10591.8	10342.1	10112.9	10031.4	9216.2	8039.4
45°	13989.9	14040.8	13984.8	12971.0	12089.6	10928.0	10770.1	10622.3	10545.9	9664.5	8355.2
47.5°	13995.0	13995.0	13663.8	13113.6	12858.9	11305.0	11228.6	11279.6	11198.0	10235.1	8732.2
50°	13628.2	13694.4	13521.2	13149.3	13062.7	11682.0	11789.0	12064.1	11982.6	10841.4	9139.8
52.5°	12869.1	13088.2	13083.1	13093.2	12767.2	12003.0	12380.0	13006.6	12869.1	11524.1	9572.8
55°	11529.2	11967.3	12359.6	12695.9	12512.5	12196.6	13103.4	14010.3	13867.6	12288.3	10011.0
57.5°	10382.9	10663.1	11152.2	12104.9	12211.9	12364.7	13781.0	15059.8	14932.4	13134.0	10469.5
60°	9073.6	9460.8	9949.8	11305.0	11845.1	12583.8	14524.8	16083.8	15961.5	13989.9	10912.7
62.5°	7061.2	7560.5	8538.6	10077.2	11310.1	12721.3	15110.7	16985.6	16929.5	14800.0	11310.1
65°	4921.4	5364.7	6735.1	8569.2	10459.3	12660.2	15579.4	17790.5	17739.6	15462.3	11590.3
67.5°	2873.4	3387.9	4936.7	6898.2	8956.4	12237.3	15732.3	18264.3	18264.3	15864.7	11666.7
70°	1640.5	1879.9	3255.5	5028.4	6867.6	11070.7	15304.3	18259.2	18345.8	15773.0	11350.9
72.5°	1146.3	1253.3	2190.7	3382.8	4656.5	8956.4	14183.5	17377.8	17495.0	14906.9	10270.8
75°	891.6	968.0	1543.7	2307.9	2934.5	6083.0	11733.0	14652.2	14963.0	12706.1	8304.3
77.5°	677.6	733.6	901.8	1441.8	1879.9	3494.9	7743.9	9608.5	9628.9	7779.5	4452.7
80°	494.2	550.2	601.2	881.4	998.6	1635.4	2924.3	4014.6	3902.5	3764.9	2409.8
82.5°	295.5	351.5	366.8	478.9	489.1	698.0	1024.0	1294.0	1243.1	1655.8	1131.0
85°	127.4	178.3	188.5	219.1	208.9	285.3	407.6	341.3	305.7	351.5	244.5
87.5°	30.6	50.9	50.9	56.0	45.9	71.3	76.4	56.0	50.9	61.1	61.1
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°	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8	6235.8
2.5°	6200.2	6184.9	6190.0	6103.4	6077.9	6052.4	6037.2	6027.0	6016.8	6032.1	6047.3
5°	6246.0	6210.4	6169.6	6042.3	5991.3	5935.3	5894.5	5858.8	5843.6	5843.6	5858.8
7.5°	6281.7	6220.6	6134.0	5965.8	5874.1	5797.7	5731.5	5685.6	5660.2	5660.2	5675.4
10°	6286.8	6200.2	6062.6	5858.8	5736.6	5624.5	5548.1	5497.1	5461.5	5461.5	5471.7
12.5°	6317.4	6200.2	6021.9	5777.3	5624.5	5486.9	5395.2	5318.8	5303.5	5303.5	5313.7
15°	6368.3	6225.7	5996.4	5706.0	5522.6	5364.7	5262.8	5181.3	5150.7	5171.1	5176.2
17.5°	6414.2	6240.9	5950.5	5614.3	5395.2	5222.0	5109.9	5038.6	4997.8	5043.7	5043.7
20°	6444.7	6240.9	5884.3	5497.1	5257.7	5064.1	4957.1	4870.5	4839.9	4896.0	4901.1
22.5°	6490.6	6235.8	5813.0	5379.9	5109.9	4906.1	4799.2	4732.9	4717.6	4778.8	4799.2
25°	6541.5	6246.0	5736.6	5247.5	4946.9	4748.2	4666.7	4636.1	4646.3	4722.7	4748.2
27.5°	6597.6	6266.4	5660.2	5099.7	4768.6	4590.3	4544.4	4559.7	4600.5	4697.3	4727.8
30°	6648.5	6271.5	5553.2	4926.5	4564.8	4396.7	4417.1	4483.3	4544.4	4641.2	4676.9
32.5°	6714.7	6276.6	5441.1	4738.0	4345.7	4223.5	4315.2	4422.2	4483.3	4575.0	4615.8
35°	6877.8	6363.2	5354.5	4554.6	4141.9	4075.7	4228.6	4366.1	4401.8	4483.3	4519.0
37.5°	7066.3	6505.9	5308.6	4366.1	3943.3	3928.0	4121.6	4259.1	4269.3	4320.3	4355.9
40°	7183.5	6567.0	5257.7	4208.2	3764.9	3775.1	3973.8	4080.8	4060.4	4096.1	4121.6
42.5°	7300.6	6587.4	5150.7	4075.7	3596.8	3607.0	3759.9	3836.3	3846.5	3922.9	3958.5
45°	7499.3	6643.4	5033.5	3953.4	3444.0	3408.3	3500.0	3601.9	3734.4	3882.1	3922.9
47.5°	7764.2	6760.6	4911.2	3805.7	3296.2	3179.1	3214.7	3393.0	3530.6	3668.1	3693.6
50°	8034.3	6877.8	4799.2	3627.4	3148.5	2934.5	2949.8	3112.8	3224.9	3331.9	3347.2
52.5°	8299.2	6979.7	4702.4	3459.3	2980.4	2644.1	2705.3	2873.4	2949.8	3000.7	3016.0
55°	8564.1	7066.3	4615.8	3316.6	2786.8	2414.9	2470.9	2628.8	2705.3	2730.7	2740.9
57.5°	8839.2	7168.2	4549.5	3194.3	2567.7	2211.1	2246.7	2358.8	2430.1	2460.7	2450.5
60°	9068.5	7254.8	4513.9	3067.0	2348.6	2022.6	2012.4	2114.3	2216.2	2246.7	2236.6
62.5°	9246.8	7310.8	4457.8	2903.9	2155.0	1834.1	1783.1	1915.6	2022.6	2043.0	2058.2
65°	9343.6	7315.9	4320.3	2695.1	1956.3	1630.3	1594.6	1727.1	1793.3	1813.7	1813.7
67.5°	9328.3	7234.4	4050.2	2414.9	1772.9	1446.9	1416.3	1497.8	1594.6	1609.9	1594.6
70°	9012.4	6898.2	3617.2	2119.4	1553.9	1283.9	1227.8	1309.3	1401.0	1345.0	1319.5
72.5°	8115.8	6027.0	2980.4	1793.3	1309.3	1080.1	1054.6	1136.1	1141.2	1151.4	1125.9
75°	6404.0	4488.4	2231.5	1395.9	1059.7	906.8	901.8	886.5	906.8	947.6	917.0
77.5°	3362.5	2241.6	1207.4	855.9	769.3	728.5	692.9	687.8	748.9	774.4	743.8
80°	1823.9	1258.4	692.9	514.6	468.7	473.8	519.7	509.5	575.7	591.0	565.5
82.5°	794.8	596.1	341.3	310.8	310.8	305.7	321.0	356.6	428.0	428.0	341.3
85°	173.2	147.7	132.5	152.8	173.2	173.2	173.2	173.2	122.3	66.2	45.9
87.5°	56.0	56.0	56.0	61.1	66.2	66.2	56.0	40.8	25.5	5.1	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)