

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: P835998

Luminaire Tested: **ARCH3-120-750-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18780 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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

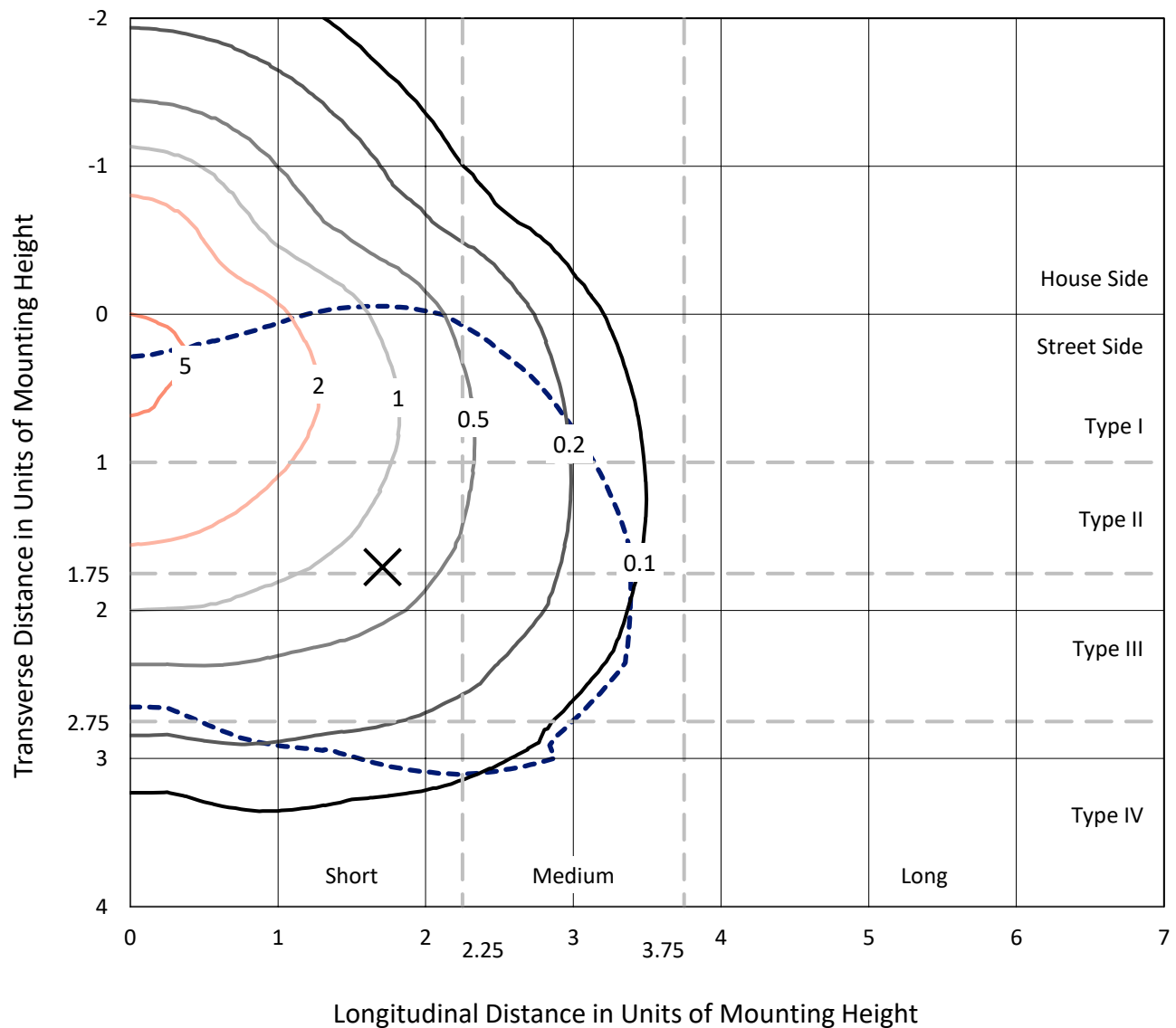


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Iso-Footcandle Lines of Horizontal Illumination

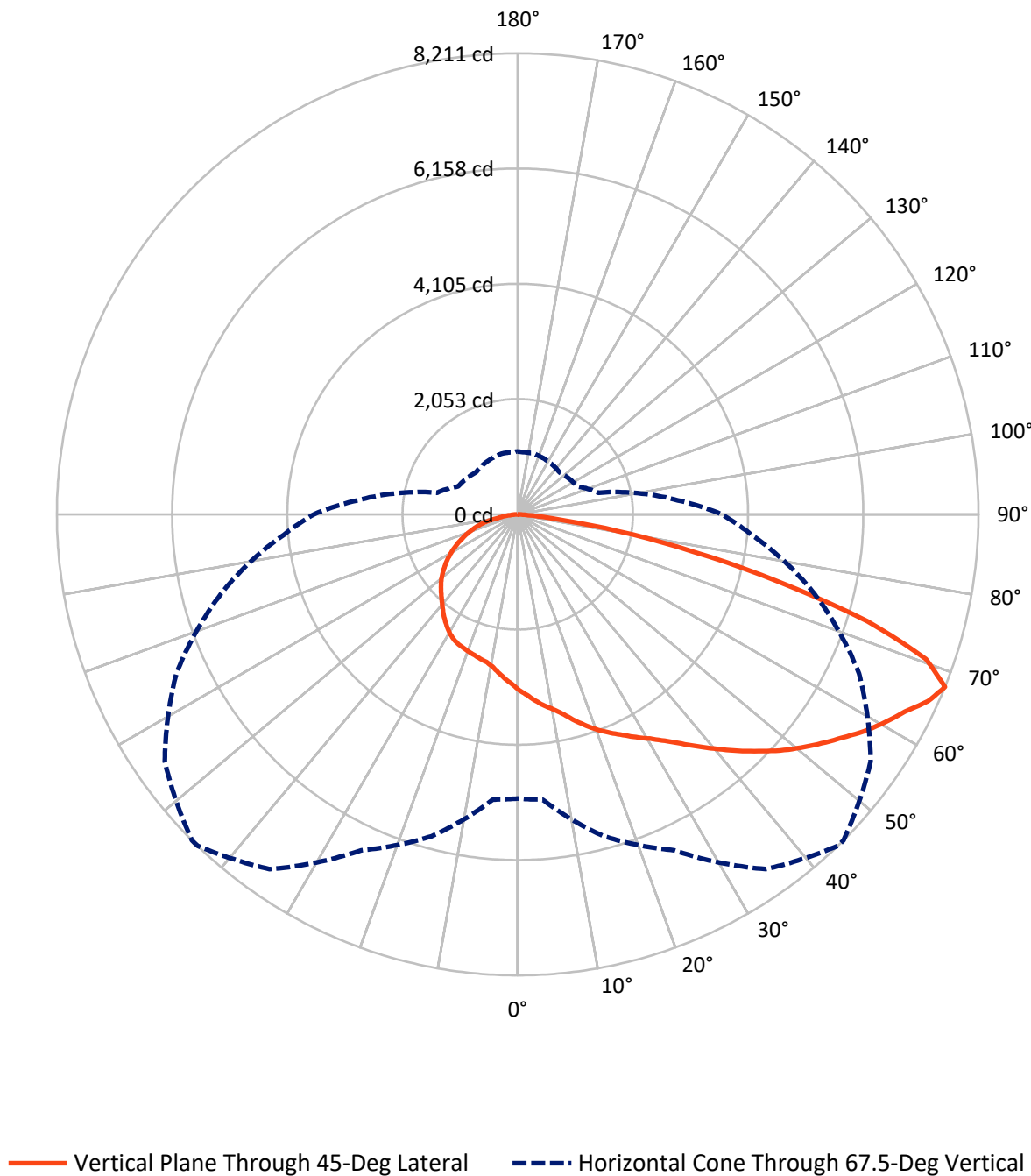
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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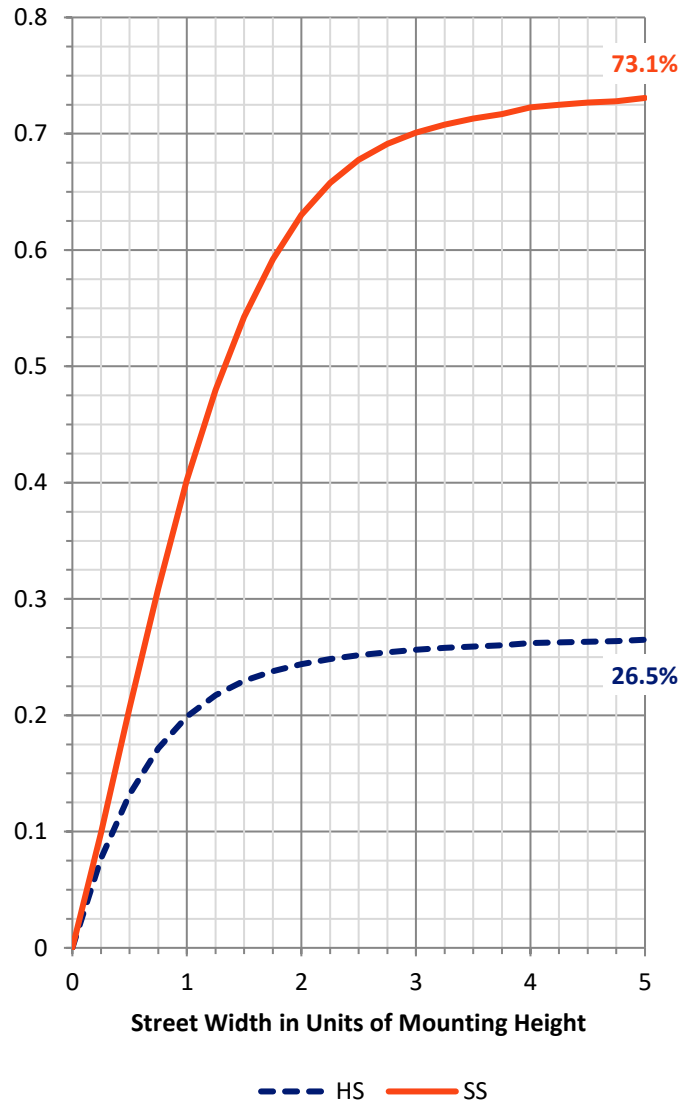
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5017.1	0.0	5017.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	13762.9	0.0	13762.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	18780.0	0.0	18780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.6
10°-20°	926.4	4.9
20°-30°	1599.1	8.5
30°-40°	2358.0	12.6
40°-50°	3194.7	17.0
50°-60°	3904.7	20.8
60°-70°	4027.1	21.4
70°-80°	2205.8	11.7
80°-90°	264.4	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°	18780.0	100.0
0°-180°	18780.0	100.0

Coefficient of Utilization



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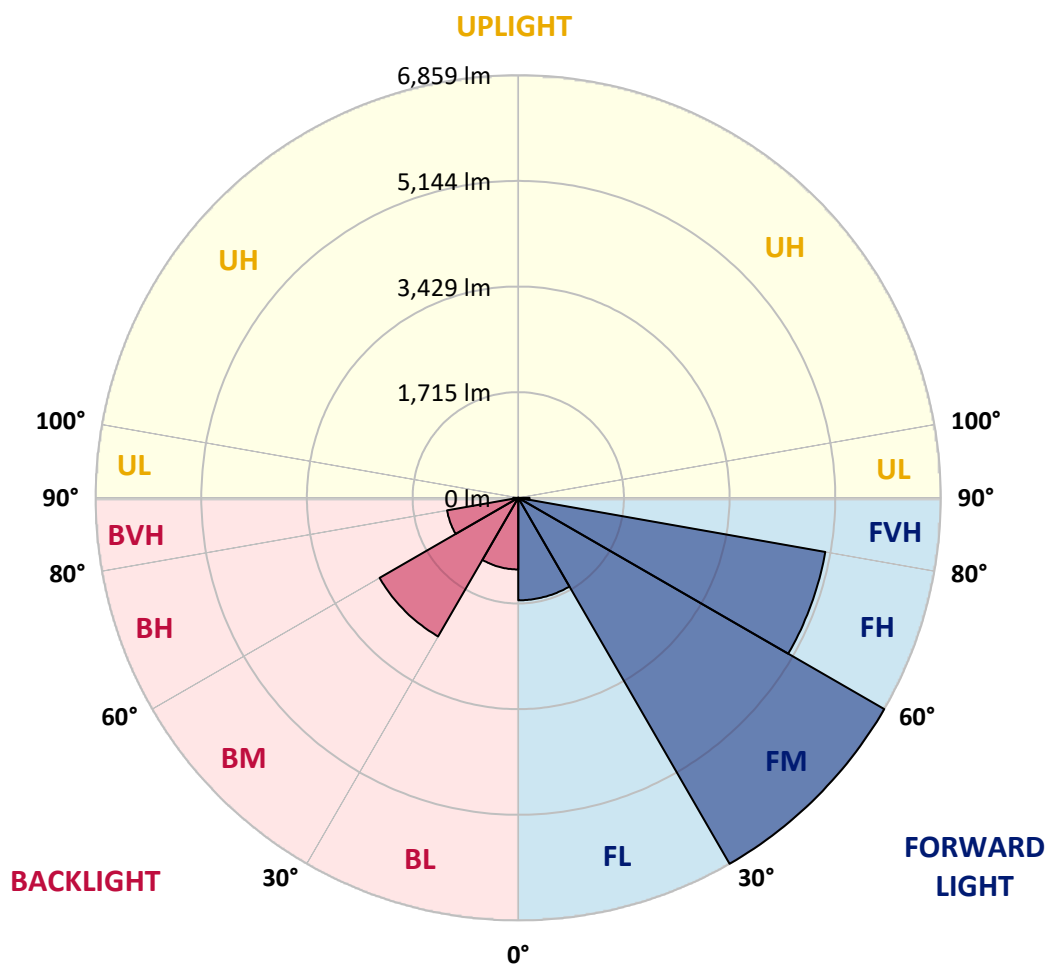
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1662.5	8.9			
FM	(30°-60°)	6858.6	36.5			
FH	(60°-80°)	5059.6	26.9			G3/7500
FVH	(80°-90°)	182.1	1.0			G2/225
BL	(0°-30°)	1162.8	6.2	B3/2500		
BM	(30°-60°)	2598.8	13.8	B3/5000		
BH	(60°-80°)	1173.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	82.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1
2.5°	3269.3	3266.5	3272.2	3252.2	3226.5	3223.6	3223.6	3206.5	3186.4	3146.4	3115.0
5°	3423.6	3417.9	3420.8	3392.2	3357.9	3340.8	3337.9	3300.8	3255.0	3192.2	3135.0
7.5°	3566.5	3560.8	3558.0	3526.5	3475.1	3446.5	3443.6	3389.3	3335.1	3237.9	3155.0
10°	3700.8	3695.1	3689.4	3646.6	3583.7	3540.8	3535.1	3466.5	3397.9	3277.9	3172.2
12.5°	3872.3	3860.9	3855.2	3803.7	3712.3	3666.6	3658.0	3566.5	3480.8	3335.1	3206.5
15°	4052.4	4043.8	4035.2	3986.6	3883.7	3823.7	3809.4	3695.1	3578.0	3409.4	3257.9
17.5°	4186.7	4178.1	4178.1	4135.2	4040.9	3972.3	3960.9	3823.7	3678.0	3477.9	3297.9
20°	4269.6	4261.0	4269.6	4243.8	4172.4	4115.2	4103.8	3952.3	3778.0	3540.8	3332.2
22.5°	4329.6	4321.0	4335.3	4323.9	4272.4	4238.1	4229.5	4080.9	3880.9	3606.5	3366.5
25°	4435.3	4435.3	4435.3	4415.3	4366.7	4355.3	4355.3	4226.7	4012.3	3692.3	3417.9
27.5°	4646.8	4635.4	4621.1	4563.9	4481.0	4478.2	4495.3	4375.3	4163.8	3803.7	3480.8
30°	4958.3	4952.6	4898.3	4778.2	4638.2	4623.9	4635.4	4535.3	4326.7	3920.9	3552.2
32.5°	5361.2	5341.2	5229.8	5049.7	4849.7	4784.0	4806.8	4701.1	4498.2	4040.9	3620.8
35°	5647.0	5652.7	5572.7	5409.8	5172.6	4998.3	5015.4	4886.8	4683.9	4175.2	3706.6
37.5°	5975.7	5995.7	5875.6	5752.7	5532.7	5235.5	5252.6	5078.3	4869.7	4343.9	3798.0
40°	6430.0	6390.0	6187.1	6041.4	5798.5	5484.1	5498.4	5292.6	5084.0	4503.9	3903.8
42.5°	6810.1	6738.7	6492.9	6307.2	6015.7	5747.0	5761.3	5524.1	5301.2	4681.1	4020.9
45°	7356.0	7158.8	6804.4	6713.0	6238.6	6004.2	6018.5	5769.9	5529.8	4869.7	4146.7
47.5°	7673.2	7358.8	7133.1	7084.5	6484.3	6270.0	6287.2	6030.0	5775.6	5084.0	4278.1
50°	7653.2	7450.3	7384.6	7264.5	6701.5	6518.6	6535.8	6298.6	6024.2	5295.5	4403.9
52.5°	7521.7	7558.9	7524.6	7324.5	6918.7	6758.7	6778.7	6564.4	6278.6	5492.7	4521.0
55°	7724.6	7750.4	7684.6	7421.7	7158.8	6998.7	7021.6	6844.4	6530.1	5667.0	4621.1
57.5°	7967.5	7876.1	7810.4	7593.2	7407.4	7258.8	7284.5	7130.2	6747.3	5807.0	4698.2
60°	7956.1	7764.6	7830.4	7604.6	7576.0	7498.9	7521.7	7364.5	6913.0	5909.9	4729.7
62.5°	7370.3	7267.4	7598.9	7521.7	7713.2	7713.2	7741.8	7507.4	7013.0	5952.8	4712.5
65°	6352.9	6358.6	6941.6	7261.7	7876.1	8007.6	8030.4	7596.0	6955.9	5827.1	4552.5
67.5°	5061.2	5098.3	5935.6	6601.5	7713.2	8207.6	8210.5	7676.0	6710.1	5472.7	4181.0
70°	3703.7	3732.3	4721.1	5529.8	6944.5	7764.6	7718.9	7450.3	6175.7	4855.4	3600.8
72.5°	2503.4	2529.2	3546.5	4246.7	5698.5	6612.9	6512.9	6584.4	5264.1	3989.5	2895.0
75°	1683.2	1714.7	2523.4	3037.8	4192.4	5021.2	4798.2	4986.9	4072.4	3020.7	2111.9
77.5°	1060.2	1080.2	1603.2	1991.9	2863.5	3417.9	3195.0	3197.9	2346.3	1626.1	1134.5
80°	674.4	680.2	971.7	1148.8	1657.5	2054.8	1817.6	1477.5	1057.4	863.1	677.3
82.5°	391.5	382.9	580.1	648.7	788.8	780.2	645.9	611.6	463.0	431.5	345.8
85°	157.2	145.7	254.3	237.2	240.1	254.3	188.6	188.6	151.5	117.2	85.7
87.5°	31.4	31.4	34.3	31.4	31.4	34.3	25.7	25.7	22.9	22.9	22.9
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°	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1
2.5°	3109.3	3103.6	3089.3	3052.1	3032.1	3020.7	3003.5	2997.8	2995.0	2997.8	3006.4
5°	3117.9	3097.9	3057.8	2997.8	2957.8	2932.1	2903.5	2892.1	2883.5	2883.5	2892.1
7.5°	3123.6	3092.1	3023.6	2935.0	2877.8	2837.8	2803.5	2789.2	2786.4	2794.9	2797.8
10°	3126.4	3080.7	2983.5	2872.1	2797.8	2746.3	2712.1	2703.5	2712.1	2729.2	2732.1
12.5°	3146.4	3083.6	2960.7	2829.2	2740.6	2689.2	2663.5	2663.5	2686.3	2717.8	2720.6
15°	3180.7	3103.6	2949.2	2794.9	2703.5	2657.8	2649.2	2663.5	2697.8	2746.3	2752.1
17.5°	3206.5	3115.0	2923.5	2749.2	2654.9	2626.3	2640.6	2674.9	2723.5	2789.2	2794.9
20°	3223.6	3115.0	2886.4	2694.9	2606.3	2600.6	2640.6	2694.9	2746.3	2823.5	2832.1
22.5°	3240.7	3109.3	2843.5	2629.2	2552.0	2569.2	2643.5	2712.1	2763.5	2846.4	2860.7
25°	3272.2	3117.9	2800.6	2563.4	2494.9	2543.4	2640.6	2723.5	2777.8	2863.5	2886.4
27.5°	3315.0	3137.9	2769.2	2503.4	2437.7	2503.4	2620.6	2720.6	2777.8	2860.7	2886.4
30°	3360.8	3160.7	2732.1	2437.7	2372.0	2446.3	2577.7	2689.2	2754.9	2832.1	2863.5
32.5°	3409.4	3186.4	2700.6	2366.3	2292.0	2369.1	2514.9	2640.6	2712.1	2783.5	2817.8
35°	3475.1	3232.2	2683.5	2309.1	2220.5	2289.1	2434.8	2577.7	2654.9	2720.6	2760.6
37.5°	3555.1	3289.3	2674.9	2251.9	2143.3	2200.5	2349.1	2500.6	2583.5	2637.7	2674.9
40°	3646.6	3360.8	2672.0	2197.6	2066.2	2109.1	2260.5	2412.0	2492.0	2534.9	2566.3
42.5°	3749.4	3440.8	2666.3	2143.3	1989.0	2023.3	2174.8	2323.4	2392.0	2429.1	2457.7
45°	3858.0	3520.8	2654.9	2077.6	1906.2	1946.2	2086.2	2217.7	2289.1	2320.5	2352.0
47.5°	3966.6	3600.8	2632.0	2003.3	1831.8	1869.0	1991.9	2106.2	2163.4	2191.9	2223.4
50°	4072.4	3672.3	2577.7	1917.6	1754.7	1789.0	1883.3	1960.5	2003.3	2026.2	2057.6
52.5°	4166.7	3720.9	2500.6	1817.6	1677.5	1694.7	1757.5	1823.3	1857.6	1860.4	1889.0
55°	4246.7	3746.6	2389.1	1714.7	1594.7	1597.5	1631.8	1683.2	1697.5	1686.1	1706.1
57.5°	4292.4	3732.3	2266.2	1608.9	1508.9	1497.5	1523.2	1548.9	1551.8	1523.2	1543.2
60°	4303.8	3666.6	2106.2	1503.2	1423.2	1391.7	1400.3	1394.6	1388.9	1377.5	1394.6
62.5°	4246.7	3526.5	1929.0	1400.3	1331.7	1283.2	1280.3	1277.4	1286.0	1288.9	1291.7
65°	4038.1	3263.6	1717.5	1294.6	1234.6	1168.8	1166.0	1200.3	1211.7	1194.6	1200.3
67.5°	3635.1	2860.7	1486.1	1171.7	1111.7	1054.5	1077.4	1097.4	1117.4	1111.7	1117.4
70°	3063.6	2349.1	1274.6	1034.5	977.4	945.9	971.7	988.8	991.7	985.9	991.7
72.5°	2409.1	1834.7	1077.4	894.5	843.1	828.8	860.2	874.5	900.2	911.6	914.5
75°	1740.4	1354.6	883.1	743.0	700.2	700.2	728.7	754.5	777.3	763.0	754.5
77.5°	971.7	808.8	634.4	511.5	520.1	560.1	571.6	600.1	623.0	620.1	614.4
80°	588.7	505.8	428.7	331.5	328.6	360.1	434.4	483.0	494.4	468.7	465.8
82.5°	305.8	265.8	228.6	185.8	205.8	240.1	251.5	302.9	334.4	322.9	337.2
85°	77.2	74.3	82.9	85.7	105.7	117.2	128.6	151.5	100.0	48.6	48.6
87.5°	22.9	22.9	28.6	28.6	37.2	45.7	42.9	42.9	22.9	2.9	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)