

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: P835821

Luminaire Tested: **ARCH3-100-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15903 lumens
Efficiency: N/A
Efficacy: 155.0 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

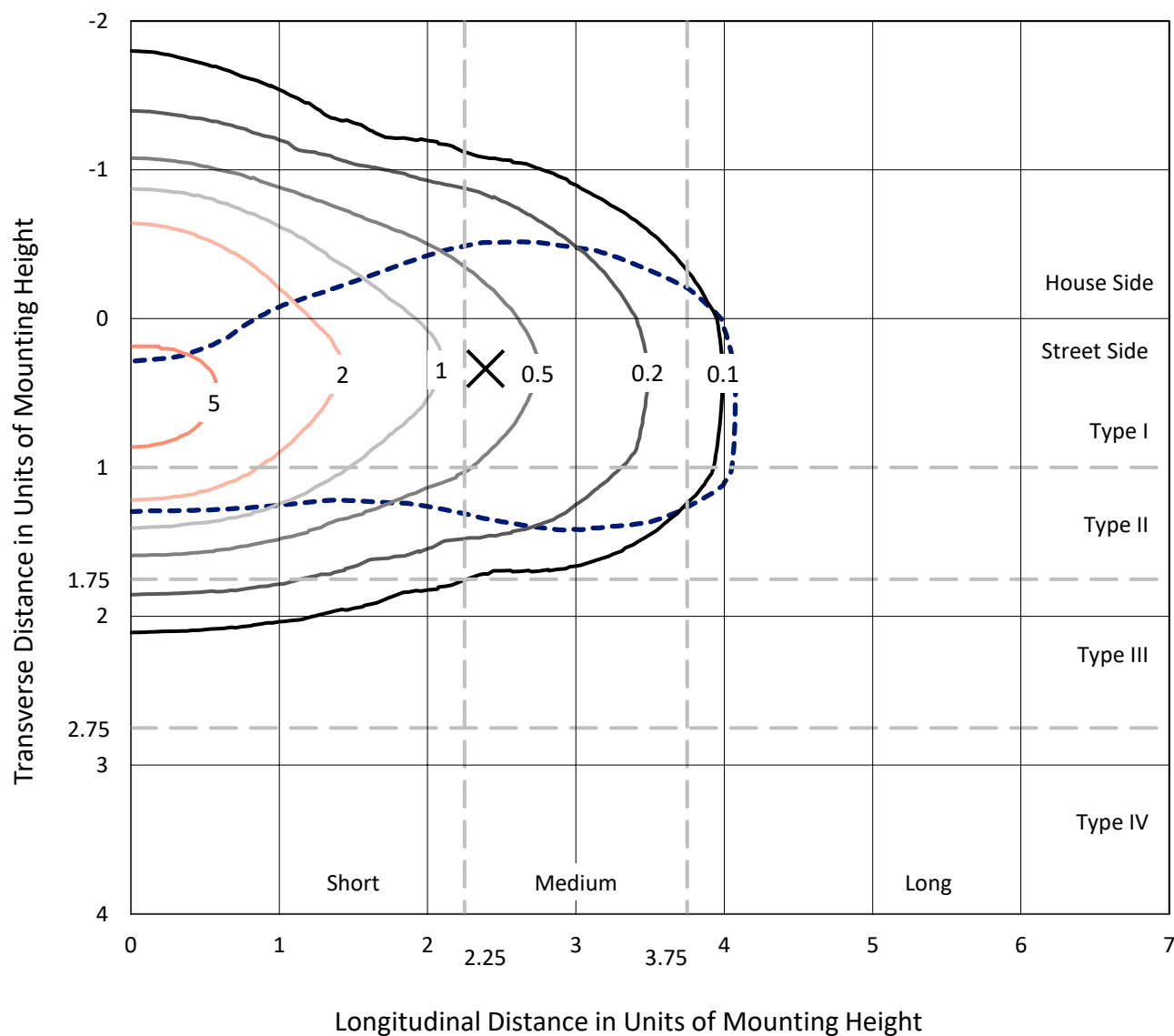
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

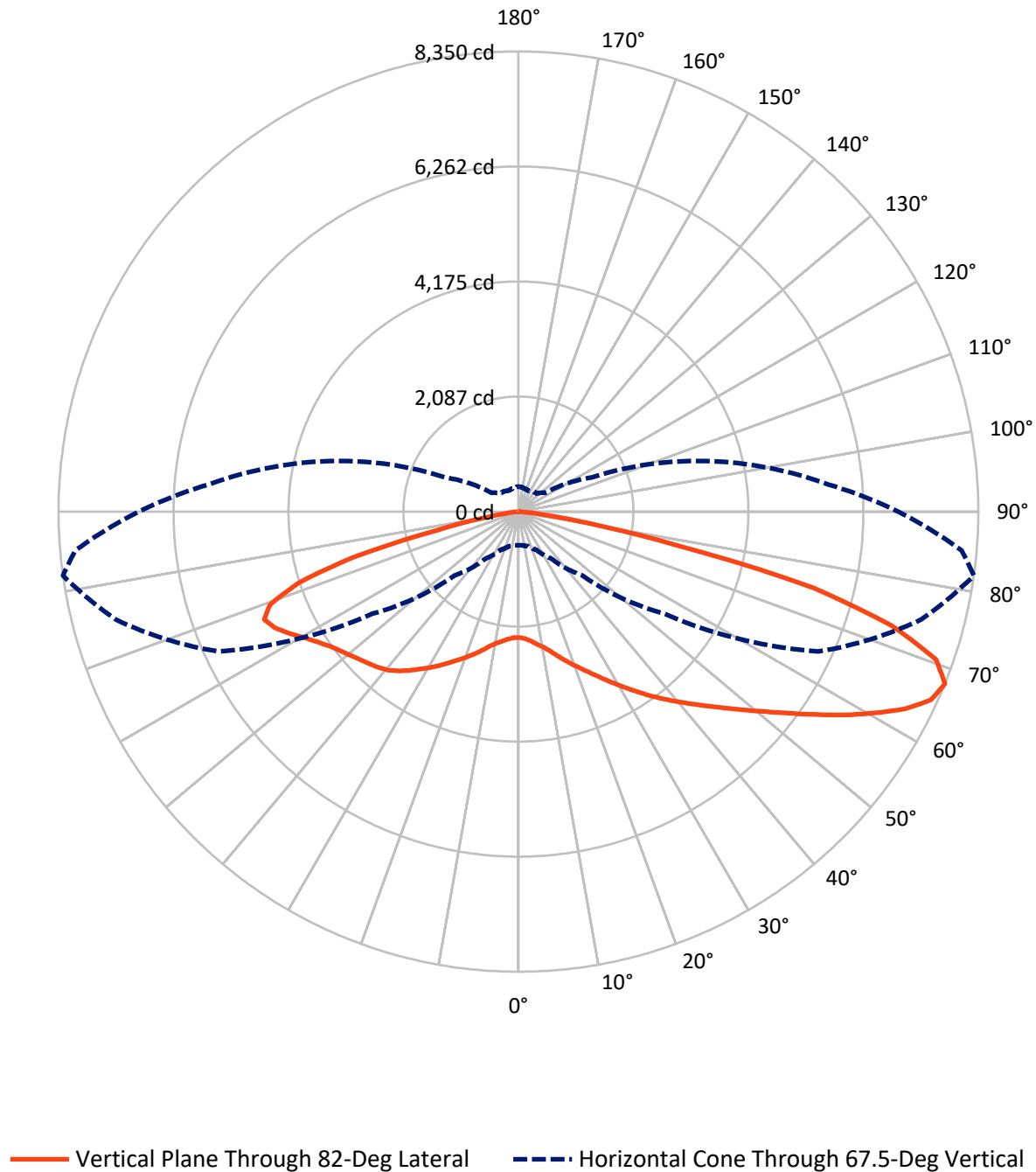
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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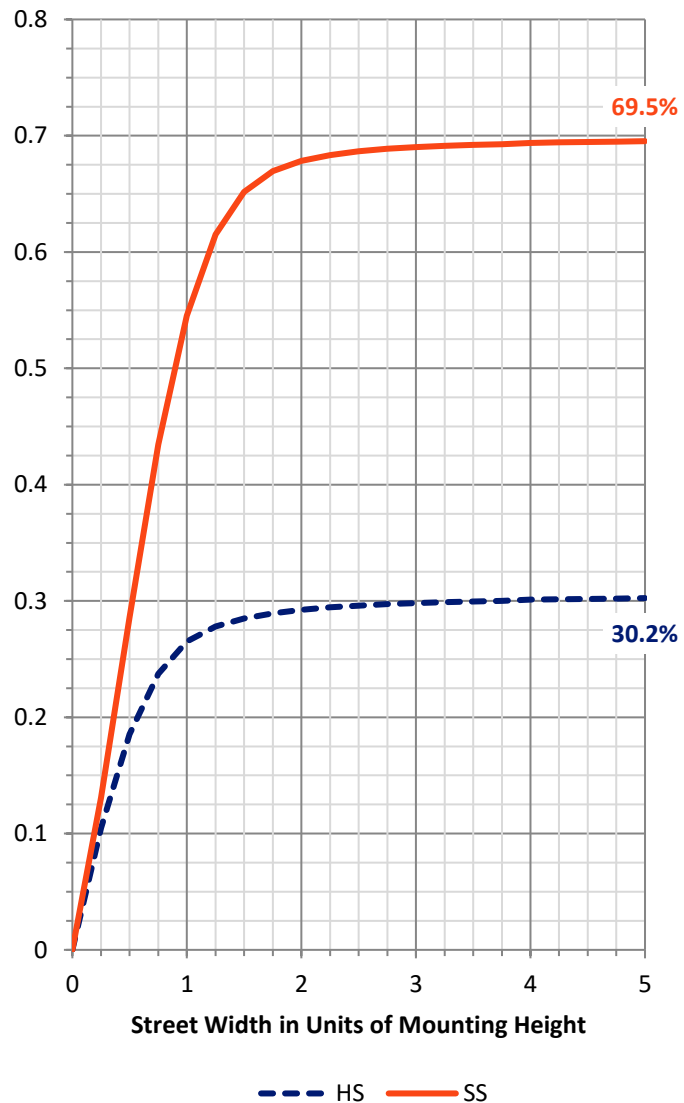
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4843.1	0.0	4843.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	11059.9	0.0	11059.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	15903.0	0.0	15903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	1.5
10°-20°	851.0	5.4
20°-30°	1710.3	10.8
30°-40°	2686.6	16.9
40°-50°	3272.9	20.6
50°-60°	3092.4	19.4
60°-70°	2553.6	16.1
70°-80°	1390.6	8.7
80°-90°	109.3	0.7
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°	15903.0	100.0
0°-180°	15903.0	100.0

Coefficient of Utilization



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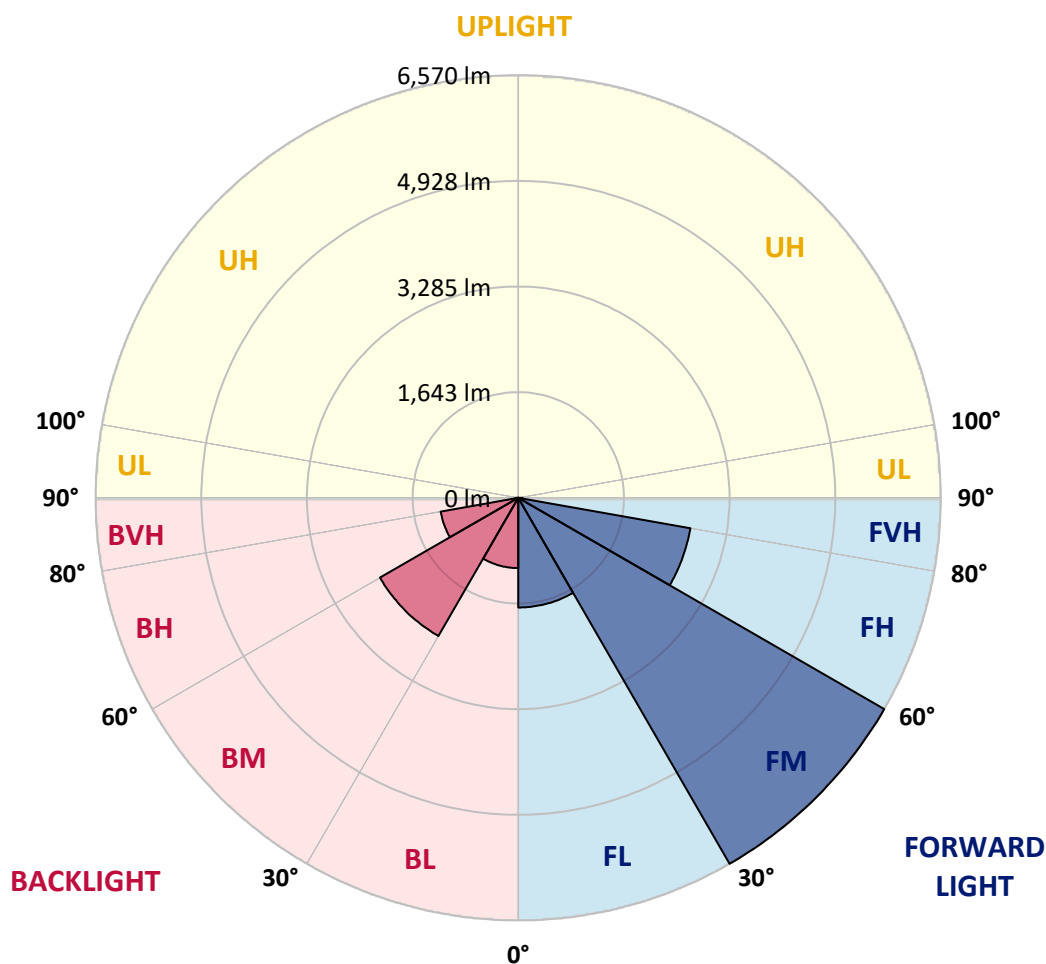
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1705.4	10.7			
FM	(30°-60°)	6570.2	41.3			
FH	(60°-80°)	2718.4	17.1			G2/5000
FVH	(80°-90°)	65.9	0.4			G1/100
BL	(0°-30°)	1092.2	6.9	B3/2500		
BM	(30°-60°)	2481.7	15.6	B2/2500		
BH	(60°-80°)	1225.8	7.7	B3/2500		G3/2500
BVH	(80°-90°)	43.4	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0
2.5°	2390.0	2390.0	2408.4	2408.4	2392.3	2366.9	2359.9	2332.2	2306.8	2306.8	2309.1
5°	2618.6	2616.3	2630.1	2611.6	2572.4	2521.6	2486.9	2426.9	2376.1	2359.9	2357.6
7.5°	2898.0	2895.7	2902.6	2872.6	2798.7	2715.5	2646.3	2549.3	2466.2	2431.5	2422.3
10°	3209.7	3207.4	3200.5	3149.7	3050.4	2921.1	2817.2	2683.2	2558.5	2503.1	2491.6
12.5°	3567.6	3563.0	3546.8	3472.9	3336.7	3170.4	3020.4	2847.2	2680.9	2604.7	2579.3
15°	3967.1	3960.2	3930.2	3840.1	3657.7	3447.5	3253.6	3031.9	2828.7	2729.4	2694.8
17.5°	4387.4	4387.4	4341.2	4207.3	4004.0	3743.1	3503.0	3221.2	2983.4	2861.0	2819.5
20°	4814.6	4812.2	4754.5	4592.9	4352.7	4052.5	3747.7	3438.3	3142.7	2995.0	2944.2
22.5°	5264.8	5260.2	5188.6	5003.9	4717.6	4378.1	4022.5	3653.1	3318.2	3140.4	3075.8
25°	5782.1	5775.2	5687.4	5461.1	5121.7	4738.4	4331.9	3904.8	3519.1	3302.1	3225.9
27.5°	6331.7	6322.4	6218.5	5955.3	5583.5	5121.7	4673.7	4195.7	3740.8	3482.2	3396.7
30°	6821.2	6814.3	6701.1	6431.0	6003.8	5502.7	4999.3	4486.7	3974.0	3673.8	3567.6
32.5°	7190.7	7190.7	7089.1	6823.5	6380.2	5867.5	5327.2	4761.4	4216.5	3879.4	3754.7
35°	7414.6	7421.6	7333.8	7121.4	6703.4	6211.6	5666.6	5084.7	4475.1	4098.7	3964.8
37.5°	7447.0	7470.1	7419.3	7276.1	6927.4	6497.9	5999.1	5396.5	4743.0	4320.4	4170.3
40°	7296.9	7313.0	7315.4	7259.9	7019.8	6703.4	6292.4	5726.7	5027.0	4553.6	4380.4
42.5°	6996.7	7008.2	7029.0	7045.2	6952.8	6793.5	6516.4	6033.8	5329.5	4791.5	4588.3
45°	6608.8	6606.4	6641.1	6710.4	6705.7	6742.7	6641.1	6313.2	5643.5	5061.6	4819.2
47.5°	6029.2	6017.6	6140.0	6297.0	6375.5	6548.7	6643.4	6532.6	5985.3	5359.5	5082.4
50°	5121.7	5110.1	5378.0	5747.4	5978.4	6241.6	6516.4	6664.2	6343.2	5694.3	5368.7
52.5°	4017.9	4006.4	4345.8	4992.4	5495.8	5879.1	6260.1	6694.2	6682.6	6068.4	5692.0
55°	2988.0	2978.8	3309.0	4008.7	4823.8	5458.8	5946.0	6615.7	7001.3	6497.9	6084.6
57.5°	2105.9	2101.3	2387.7	2967.2	3960.2	4946.2	5643.5	6463.3	7294.6	6964.4	6527.9
60°	1477.8	1470.9	1678.7	2126.7	2995.0	4172.6	5343.3	6260.1	7513.9	7423.9	6999.0
62.5°	995.2	990.6	1138.4	1512.5	2126.7	3212.0	4888.4	6123.8	7638.6	7885.7	7474.7
65°	755.1	752.8	819.7	1025.3	1505.6	2306.8	4165.7	6107.7	7654.8	8232.1	7878.8
67.5°	609.6	611.9	648.9	766.6	1041.4	1639.5	3230.5	6006.1	7569.4	8349.8	8075.1
70°	498.8	498.8	514.9	593.4	768.9	1106.1	2256.0	5544.2	7331.5	8042.7	7841.8
72.5°	381.0	383.3	434.1	480.3	579.6	775.9	1445.5	4588.3	6770.4	7091.4	6939.0
75°	302.5	300.2	330.2	394.9	450.3	554.2	886.7	3290.5	5761.3	5541.9	5445.0
77.5°	217.1	214.7	237.8	293.3	341.8	392.6	528.8	1660.3	3133.5	2879.5	2807.9
80°	147.8	143.2	163.9	203.2	226.3	230.9	258.6	637.3	1367.0	1288.5	1272.3
82.5°	76.2	76.2	87.7	115.5	117.8	120.1	115.5	205.5	452.6	422.6	404.1
85°	30.0	30.0	32.3	39.3	39.3	41.6	41.6	53.1	48.5	46.2	43.9
87.5°	2.3	2.3	4.6	4.6	6.9	6.9	6.9	9.2	11.5	11.5	11.5
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°	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0
2.5°	2304.5	2295.3	2265.3	2258.3	2253.7	2246.8	2249.1	2232.9	2226.0	2228.3	2219.1
5°	2346.1	2329.9	2293.0	2276.8	2272.2	2265.3	2272.2	2260.6	2249.1	2253.7	2249.1
7.5°	2403.8	2380.7	2334.5	2318.4	2316.1	2309.1	2318.4	2309.1	2299.9	2304.5	2295.3
10°	2463.9	2433.8	2383.0	2366.9	2366.9	2364.6	2373.8	2359.9	2350.7	2353.0	2348.4
12.5°	2551.6	2512.3	2456.9	2443.1	2436.1	2443.1	2445.4	2426.9	2410.7	2413.1	2406.1
15°	2657.8	2613.9	2553.9	2533.1	2528.5	2526.2	2517.0	2493.9	2473.1	2470.8	2463.9
17.5°	2773.3	2717.9	2646.3	2625.5	2604.7	2597.8	2574.7	2544.7	2512.3	2512.3	2503.1
20°	2884.1	2821.8	2736.3	2706.3	2676.3	2648.6	2609.3	2560.8	2519.3	2512.3	2503.1
22.5°	3004.2	2930.3	2831.0	2787.1	2734.0	2678.6	2611.6	2547.0	2493.9	2482.3	2475.4
25°	3138.1	3045.8	2928.0	2863.3	2777.9	2692.5	2593.2	2510.0	2447.7	2429.2	2424.6
27.5°	3285.9	3175.1	3031.9	2937.2	2812.5	2678.6	2551.6	2452.3	2376.1	2353.0	2346.1
30°	3436.0	3304.4	3126.6	2988.0	2812.5	2634.7	2475.4	2359.9	2272.2	2239.9	2235.2
32.5°	3586.1	3438.3	3212.0	3015.7	2784.8	2560.8	2376.1	2239.9	2140.6	2101.3	2110.6
35°	3766.2	3586.1	3290.5	3027.3	2738.6	2470.8	2263.0	2103.6	2002.0	1967.4	1974.3
37.5°	3953.2	3733.9	3352.9	3018.0	2674.0	2369.2	2136.0	1981.2	1854.2	1794.2	1801.1
40°	4114.9	3867.8	3396.7	2985.7	2590.9	2253.7	2011.3	1808.1	1632.6	1574.8	1567.9
42.5°	4267.3	3967.1	3419.8	2937.2	2496.2	2119.8	1833.5	1572.5	1397.0	1325.4	1327.8
45°	4426.6	4064.1	3410.6	2872.6	2378.4	1962.8	1604.9	1341.6	1186.9	1122.2	1124.6
47.5°	4609.0	4168.0	3401.4	2803.3	2235.2	1759.6	1385.5	1138.4	1004.5	958.3	953.7
50°	4803.0	4283.5	3389.8	2717.9	2075.9	1533.3	1168.4	949.1	835.9	805.9	799.0
52.5°	5022.4	4408.1	3382.9	2616.3	1884.3	1293.1	974.5	782.8	706.6	685.8	683.5
55°	5285.6	4553.6	3392.1	2493.9	1653.3	1066.8	810.5	674.3	623.5	611.9	609.6
57.5°	5606.6	4740.7	3419.8	2350.7	1410.9	870.5	690.4	607.3	575.0	565.7	565.7
60°	5955.3	4953.1	3470.6	2189.1	1168.4	718.1	611.9	554.2	540.3	551.9	551.9
62.5°	6331.7	5202.5	3560.7	1992.8	942.1	607.3	549.6	510.3	501.1	524.2	526.5
65°	6680.3	5445.0	3618.4	1757.3	748.2	526.5	501.1	466.4	471.1	494.2	491.8
67.5°	6895.1	5645.8	3537.6	1461.7	593.4	466.4	450.3	420.3	431.8	450.3	452.6
70°	6763.5	5532.7	3138.1	1103.8	464.1	406.4	394.9	376.4	385.6	408.7	418.0
72.5°	6119.2	4955.4	2440.8	745.9	374.1	341.8	346.4	337.1	348.7	369.5	390.2
75°	4967.0	3745.4	1637.2	478.0	295.6	291.0	297.9	291.0	295.6	316.4	327.9
77.5°	2593.2	1826.5	815.1	297.9	219.4	226.3	237.8	240.2	254.0	258.6	263.2
80°	1210.0	822.1	339.4	166.3	145.5	159.3	182.4	184.7	189.3	196.3	198.6
82.5°	394.9	247.1	157.0	90.1	83.1	90.1	117.8	140.9	143.2	157.0	157.0
85°	41.6	25.4	34.6	36.9	32.3	39.3	53.1	50.8	23.1	13.9	13.9
87.5°	11.5	9.2	11.5	11.5	9.2	9.2	6.9	2.3	0.0	0.0	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)