

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: P835971

Luminaire Tested: **ARCH3-120-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835971
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: ARCH3-120-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17886 lumens
Efficiency: N/A
Efficacy: 145.8 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

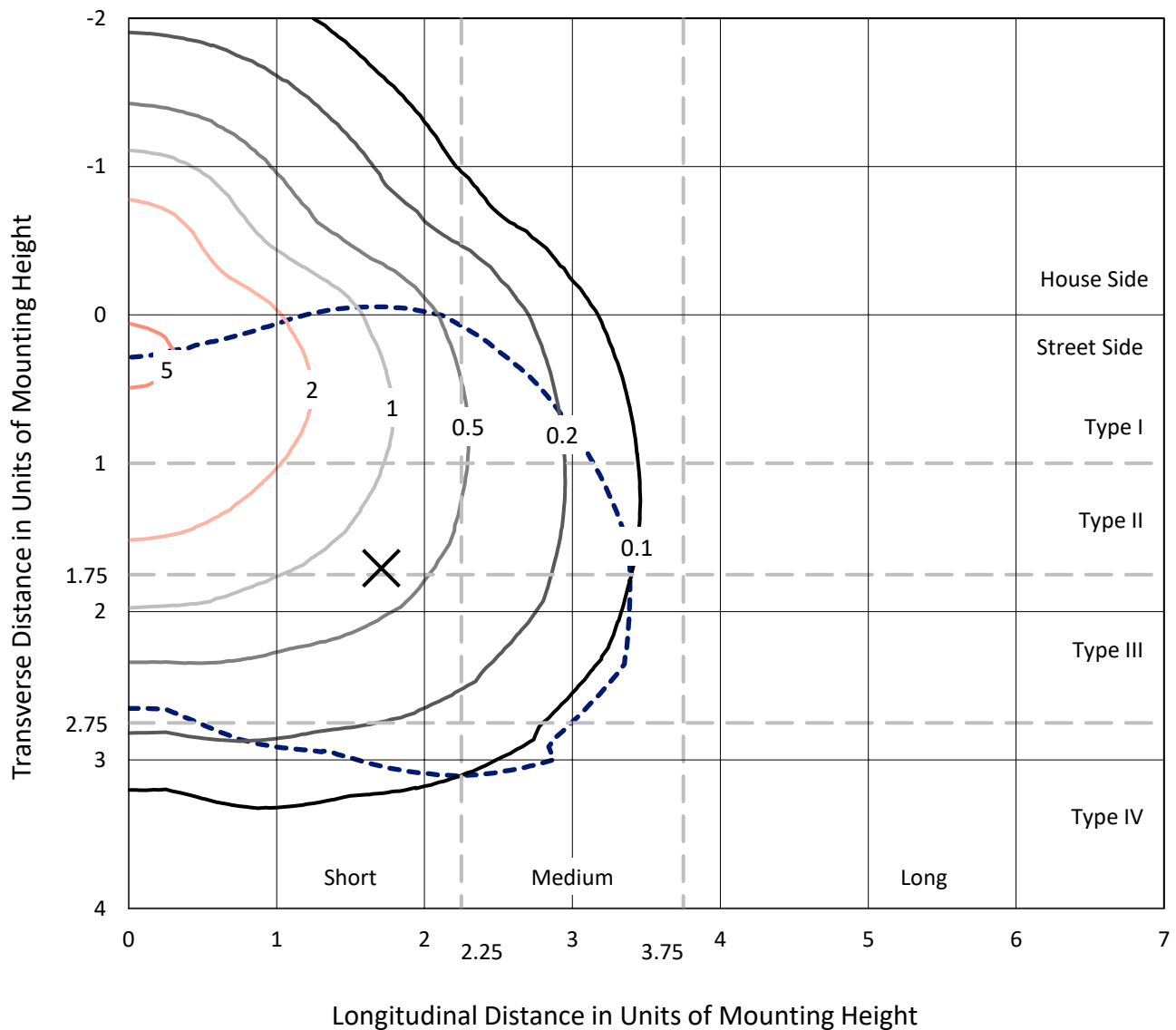


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Iso-Footcandle Lines of Horizontal Illumination

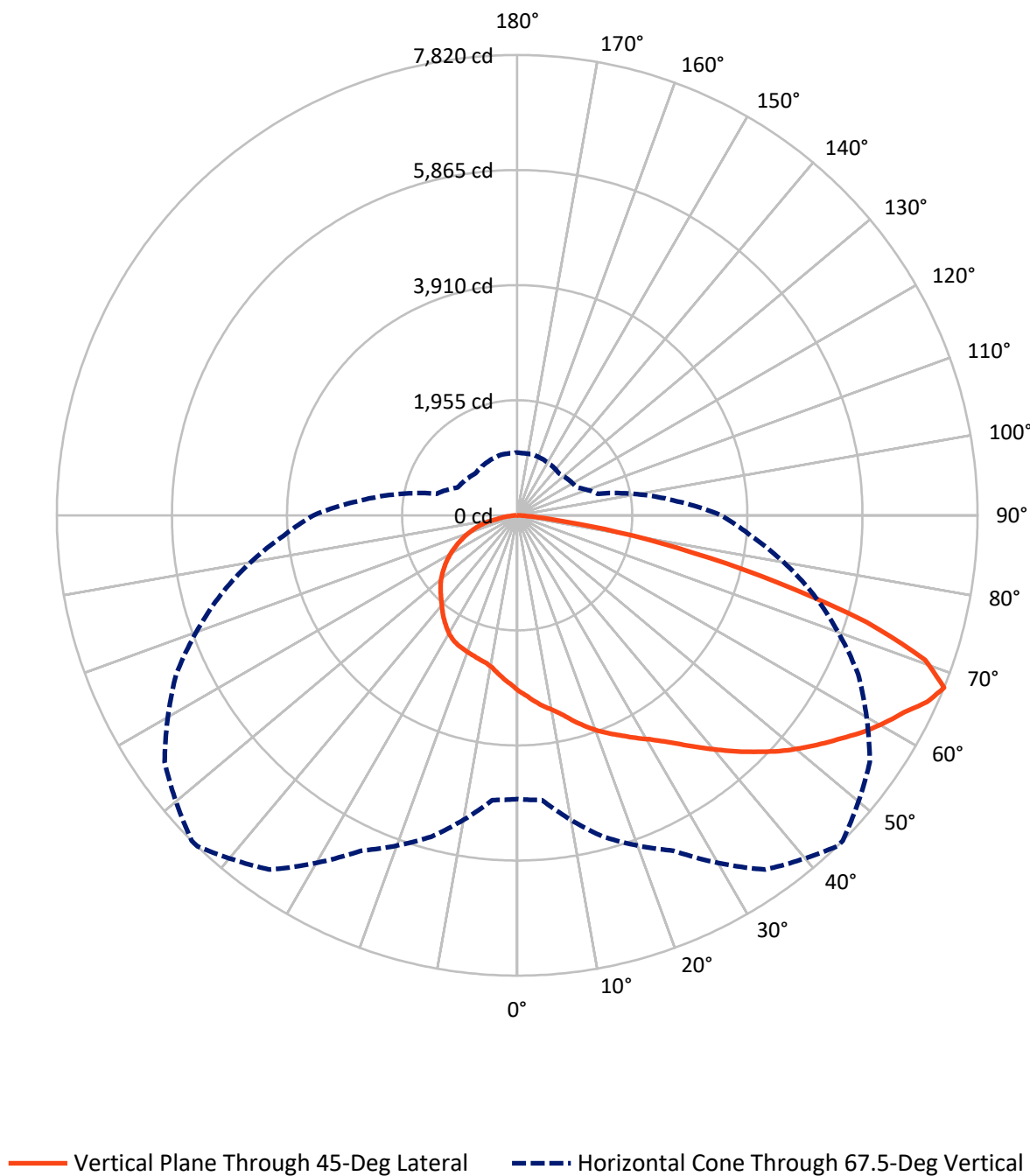
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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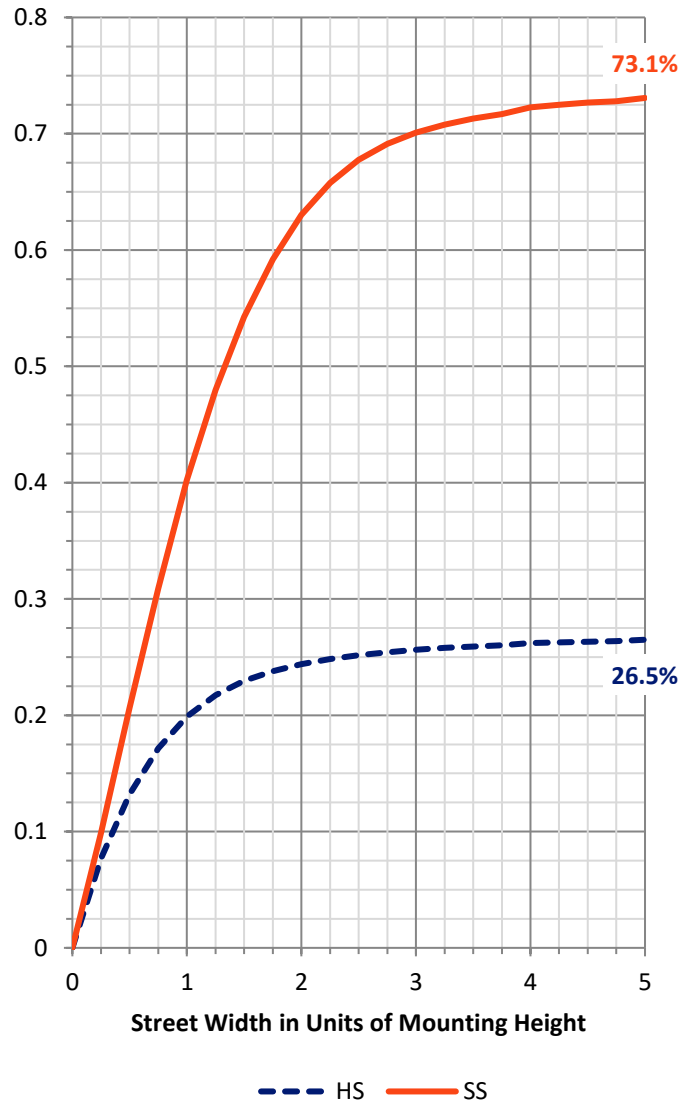
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4778.3	0.0	4778.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	13107.7	0.0	13107.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	17886.0	0.0	17886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.6
10°-20°	882.3	4.9
20°-30°	1522.9	8.5
30°-40°	2245.8	12.6
40°-50°	3042.6	17.0
50°-60°	3718.8	20.8
60°-70°	3835.4	21.4
70°-80°	2100.8	11.7
80°-90°	251.8	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°	17886.0	100.0
0°-180°	17886.0	100.0

Coefficient of Utilization



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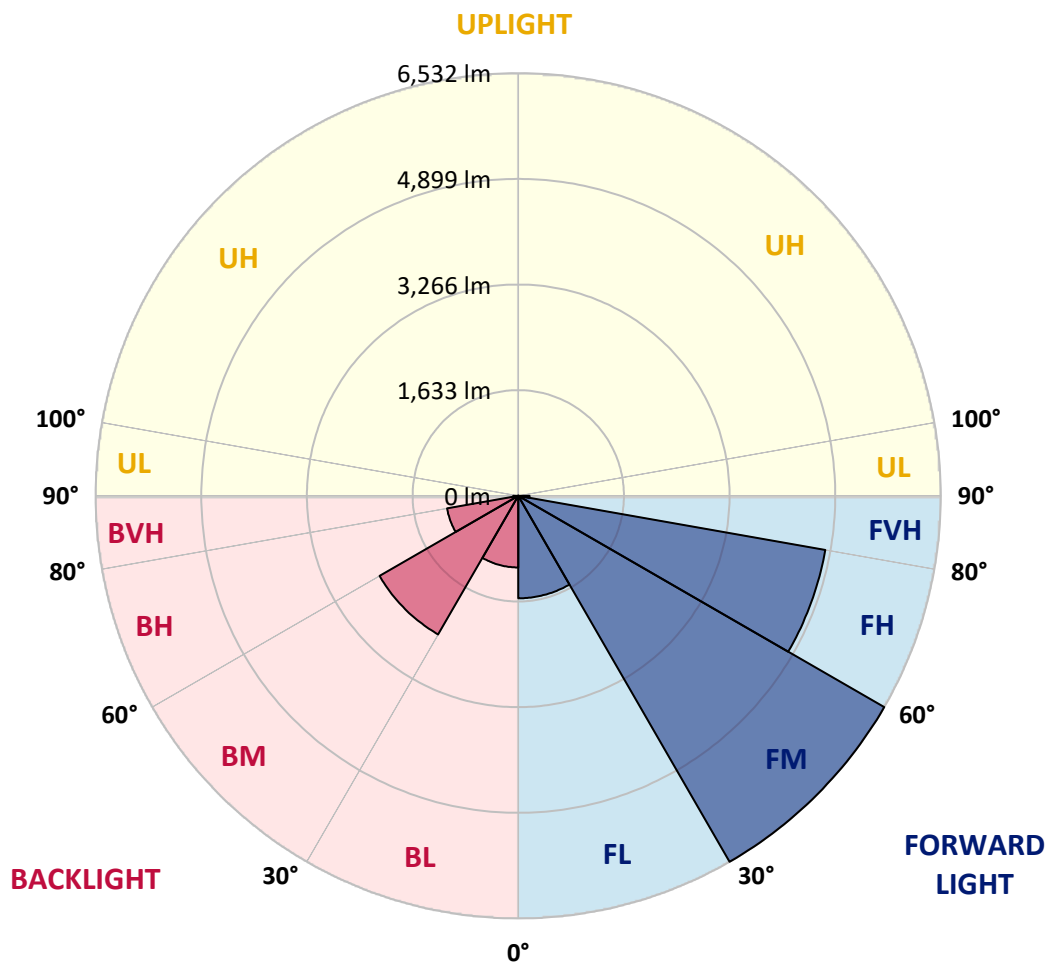
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.4	8.9			
FM	(30°-60°)	6532.1	36.5			
FH	(60°-80°)	4818.8	26.9			G2/5000
FVH	(80°-90°)	173.5	1.0			G2/225
BL	(0°-30°)	1107.4	6.2	B3/2500		
BM	(30°-60°)	2475.1	13.8	B2/2500		
BH	(60°-80°)	1117.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	78.3	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°	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0
2.5°	3113.7	3111.0	3116.4	3097.4	3072.9	3070.1	3070.1	3053.8	3034.8	2996.7	2966.7
5°	3260.7	3255.2	3257.9	3230.7	3198.1	3181.7	3179.0	3143.6	3100.1	3040.2	2985.8
7.5°	3396.8	3391.3	3388.6	3358.6	3309.7	3282.4	3279.7	3228.0	3176.3	3083.8	3004.8
10°	3524.7	3519.2	3513.8	3473.0	3413.1	3372.3	3366.8	3301.5	3236.2	3121.9	3021.2
12.5°	3688.0	3677.1	3671.7	3622.7	3535.6	3492.0	3483.8	3396.8	3315.1	3176.3	3053.8
15°	3859.5	3851.3	3843.1	3796.9	3698.9	3641.7	3628.1	3519.2	3407.6	3247.1	3102.8
17.5°	3987.4	3979.2	3979.2	3938.4	3848.6	3783.2	3772.4	3641.7	3502.9	3312.4	3140.9
20°	4066.3	4058.1	4066.3	4041.8	3973.8	3919.3	3908.4	3764.2	3598.2	3372.3	3173.6
22.5°	4123.5	4115.3	4128.9	4118.0	4069.0	4036.4	4028.2	3886.7	3696.1	3434.9	3206.2
25°	4224.2	4224.2	4224.2	4205.1	4158.8	4148.0	4148.0	4025.5	3821.3	3516.5	3255.2
27.5°	4425.6	4414.7	4401.1	4346.6	4267.7	4265.0	4281.3	4167.0	3965.6	3622.7	3315.1
30°	4722.2	4716.8	4665.1	4550.8	4417.4	4403.8	4414.7	4319.4	4120.7	3734.3	3383.1
32.5°	5106.0	5087.0	4980.8	4809.3	4618.8	4556.2	4578.0	4477.3	4284.0	3848.6	3448.5
35°	5378.2	5383.6	5307.4	5152.3	4926.4	4760.4	4776.7	4654.2	4461.0	3976.5	3530.1
37.5°	5691.2	5710.2	5595.9	5478.9	5269.3	4986.3	5002.6	4836.6	4637.9	4137.1	3617.2
40°	6124.0	6085.8	5892.6	5753.8	5522.4	5223.1	5236.7	5040.7	4842.0	4289.5	3717.9
42.5°	6485.9	6417.9	6183.8	6006.9	5729.3	5473.5	5487.1	5261.2	5048.9	4458.2	3829.5
45°	7005.8	6818.0	6480.5	6393.4	5941.6	5718.4	5732.0	5495.2	5266.6	4637.9	3949.3
47.5°	7307.9	7008.5	6793.5	6747.2	6175.7	5971.5	5987.9	5742.9	5500.7	4842.0	4074.5
50°	7288.9	7095.6	7033.0	6918.7	6382.5	6208.3	6224.7	5998.8	5737.5	5043.4	4194.2
52.5°	7163.7	7199.0	7166.4	6975.9	6589.4	6437.0	6456.0	6251.9	5979.7	5231.2	4305.8
55°	7356.9	7381.4	7318.8	7068.4	6818.0	6665.6	6687.4	6518.6	6219.2	5397.2	4401.1
57.5°	7588.3	7501.2	7438.6	7231.7	7054.8	6913.3	6937.8	6790.8	6426.1	5530.6	4474.6
60°	7577.4	7395.0	7457.6	7242.6	7215.4	7141.9	7163.7	7014.0	6583.9	5628.6	4504.5
62.5°	7019.4	6921.4	7237.2	7163.7	7346.0	7346.0	7373.2	7150.1	6679.2	5669.4	4488.2
65°	6050.5	6055.9	6611.1	6916.0	7501.2	7626.4	7648.1	7234.4	6624.8	5549.7	4335.8
67.5°	4820.2	4855.6	5653.1	6287.3	7346.0	7816.9	7819.6	7310.6	6390.7	5212.2	3981.9
70°	3527.4	3554.6	4496.3	5266.6	6613.9	7395.0	7351.5	7095.6	5881.7	4624.3	3429.4
72.5°	2384.3	2408.8	3377.7	4044.5	5427.2	6298.1	6202.9	6270.9	5013.5	3799.6	2757.1
75°	1603.1	1633.1	2403.3	2893.2	3992.8	4782.1	4569.8	4749.5	3878.5	2876.9	2011.4
77.5°	1009.8	1028.8	1526.9	1897.1	2727.2	3255.2	3042.9	3045.6	2234.6	1548.7	1080.5
80°	642.3	647.8	925.4	1094.1	1578.6	1956.9	1731.0	1407.1	1007.1	822.0	645.1
82.5°	372.9	364.7	552.5	617.8	751.2	743.0	615.1	582.5	440.9	411.0	329.3
85°	149.7	138.8	242.2	225.9	228.6	242.2	179.6	179.6	144.3	111.6	81.7
87.5°	29.9	29.9	32.7	29.9	29.9	32.7	24.5	24.5	21.8	21.8	21.8
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°	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0	2983.0
2.5°	2961.3	2955.8	2942.2	2906.8	2887.8	2876.9	2860.6	2855.1	2852.4	2855.1	2863.3
5°	2969.4	2950.4	2912.3	2855.1	2817.0	2792.5	2765.3	2754.4	2746.3	2746.3	2754.4
7.5°	2974.9	2944.9	2879.6	2795.2	2740.8	2702.7	2670.0	2656.4	2653.7	2661.9	2664.6
10°	2977.6	2934.1	2841.5	2735.4	2664.6	2615.6	2582.9	2574.8	2582.9	2599.3	2602.0
12.5°	2996.7	2936.8	2819.7	2694.5	2610.2	2561.2	2536.7	2536.7	2558.5	2588.4	2591.1
15°	3029.3	2955.8	2808.9	2661.9	2574.8	2531.2	2523.1	2536.7	2569.3	2615.6	2621.1
17.5°	3053.8	2966.7	2784.4	2618.3	2528.5	2501.3	2514.9	2547.6	2593.8	2656.4	2661.9
20°	3070.1	2966.7	2749.0	2566.6	2482.2	2476.8	2514.9	2566.6	2615.6	2689.1	2697.3
22.5°	3086.5	2961.3	2708.1	2504.0	2430.5	2446.9	2517.6	2582.9	2631.9	2710.9	2724.5
25°	3116.4	2969.4	2667.3	2441.4	2376.1	2422.4	2514.9	2593.8	2645.5	2727.2	2749.0
27.5°	3157.2	2988.5	2637.4	2384.3	2321.7	2384.3	2495.9	2591.1	2645.5	2724.5	2749.0
30°	3200.8	3010.3	2602.0	2321.7	2259.1	2329.8	2455.0	2561.2	2623.8	2697.3	2727.2
32.5°	3247.1	3034.8	2572.1	2253.6	2182.8	2256.3	2395.1	2514.9	2582.9	2651.0	2683.7
35°	3309.7	3078.3	2555.7	2199.2	2114.8	2180.1	2318.9	2455.0	2528.5	2591.1	2629.2
37.5°	3385.9	3132.7	2547.6	2144.7	2041.3	2095.8	2237.3	2381.5	2460.5	2512.2	2547.6
40°	3473.0	3200.8	2544.8	2093.0	1967.8	2008.7	2152.9	2297.2	2373.4	2414.2	2444.1
42.5°	3570.9	3277.0	2539.4	2041.3	1894.3	1927.0	2071.3	2212.8	2278.1	2313.5	2340.7
45°	3674.4	3353.2	2528.5	1978.7	1815.4	1853.5	1986.9	2112.1	2180.1	2210.1	2240.0
47.5°	3777.8	3429.4	2506.7	1908.0	1744.6	1780.0	1897.1	2005.9	2060.4	2087.6	2117.5
50°	3878.5	3497.5	2455.0	1826.3	1671.2	1703.8	1793.6	1867.1	1908.0	1929.7	1959.7
52.5°	3968.3	3543.7	2381.5	1731.0	1597.7	1614.0	1673.9	1736.5	1769.1	1771.9	1799.1
55°	4044.5	3568.2	2275.4	1633.1	1518.7	1521.5	1554.1	1603.1	1616.7	1605.8	1624.9
57.5°	4088.1	3554.6	2158.4	1532.3	1437.1	1426.2	1450.7	1475.2	1477.9	1450.7	1469.7
60°	4099.0	3492.0	2005.9	1431.6	1355.4	1325.5	1333.7	1328.2	1322.8	1311.9	1328.2
62.5°	4044.5	3358.6	1837.2	1333.7	1268.3	1222.1	1219.3	1216.6	1224.8	1227.5	1230.2
65°	3845.8	3108.2	1635.8	1233.0	1175.8	1113.2	1110.5	1143.1	1154.0	1137.7	1143.1
67.5°	3462.1	2724.5	1415.3	1115.9	1058.8	1004.3	1026.1	1045.2	1064.2	1058.8	1064.2
70°	2917.7	2237.3	1213.9	985.3	930.8	900.9	925.4	941.7	944.4	939.0	944.4
72.5°	2294.4	1747.4	1026.1	851.9	802.9	789.3	819.2	832.9	857.4	868.2	871.0
75°	1657.5	1290.1	841.0	707.7	666.8	666.8	694.0	718.5	740.3	726.7	718.5
77.5°	925.4	770.3	604.2	487.2	495.4	533.5	544.4	571.6	593.3	590.6	585.2
80°	560.7	481.8	408.3	315.7	313.0	342.9	413.7	460.0	470.9	446.4	443.6
82.5°	291.2	253.1	217.7	176.9	196.0	228.6	239.5	288.5	318.4	307.6	321.2
85°	73.5	70.8	78.9	81.7	100.7	111.6	122.5	144.3	95.3	46.3	46.3
87.5°	21.8	21.8	27.2	27.2	35.4	43.5	40.8	40.8	21.8	2.7	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)