

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: P835845

Luminaire Tested: **ARCH3-100-740-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835845
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: ARCH3-100-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16197 lumens
Efficiency: N/A
Efficacy: 157.9 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): 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

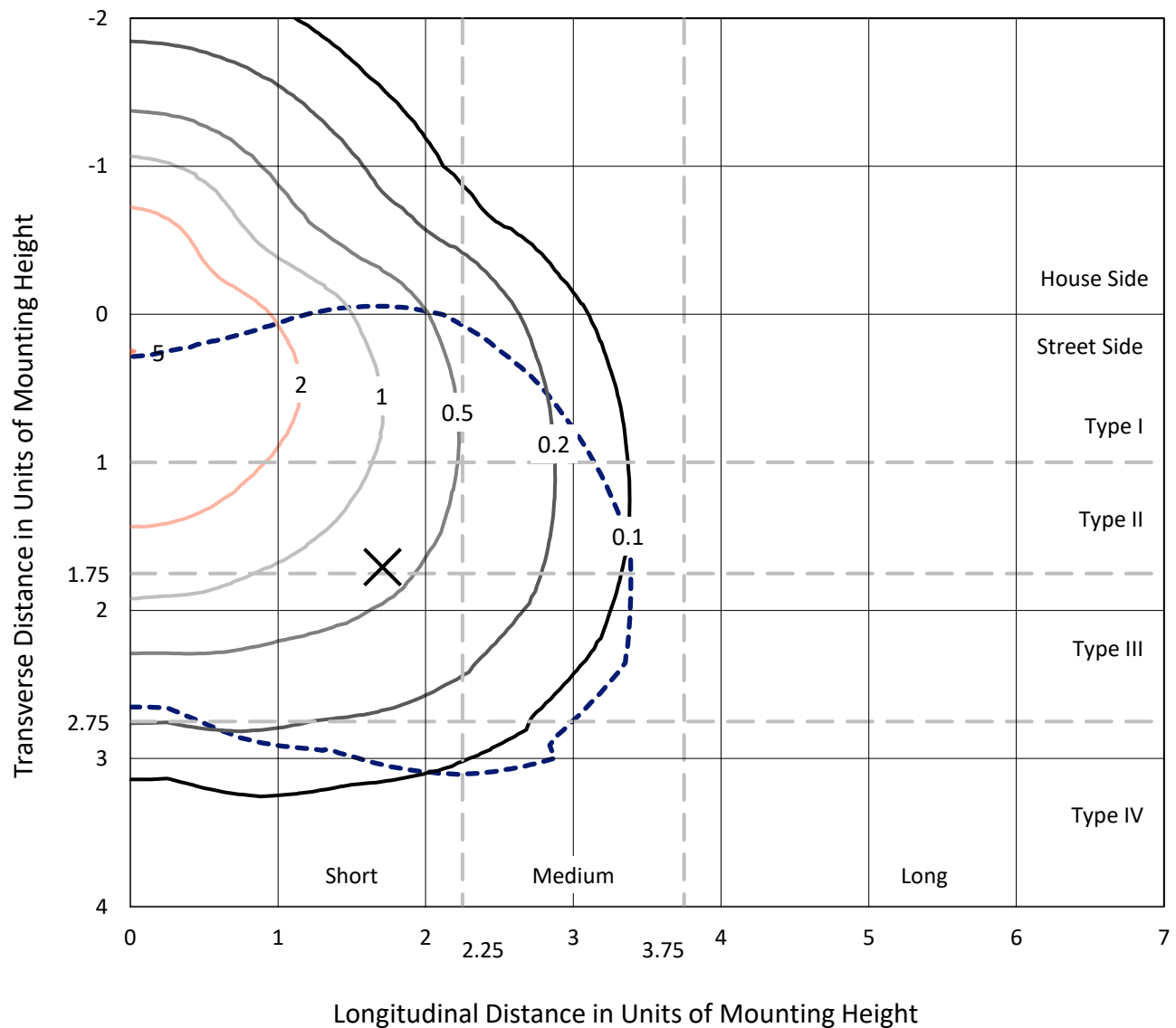


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

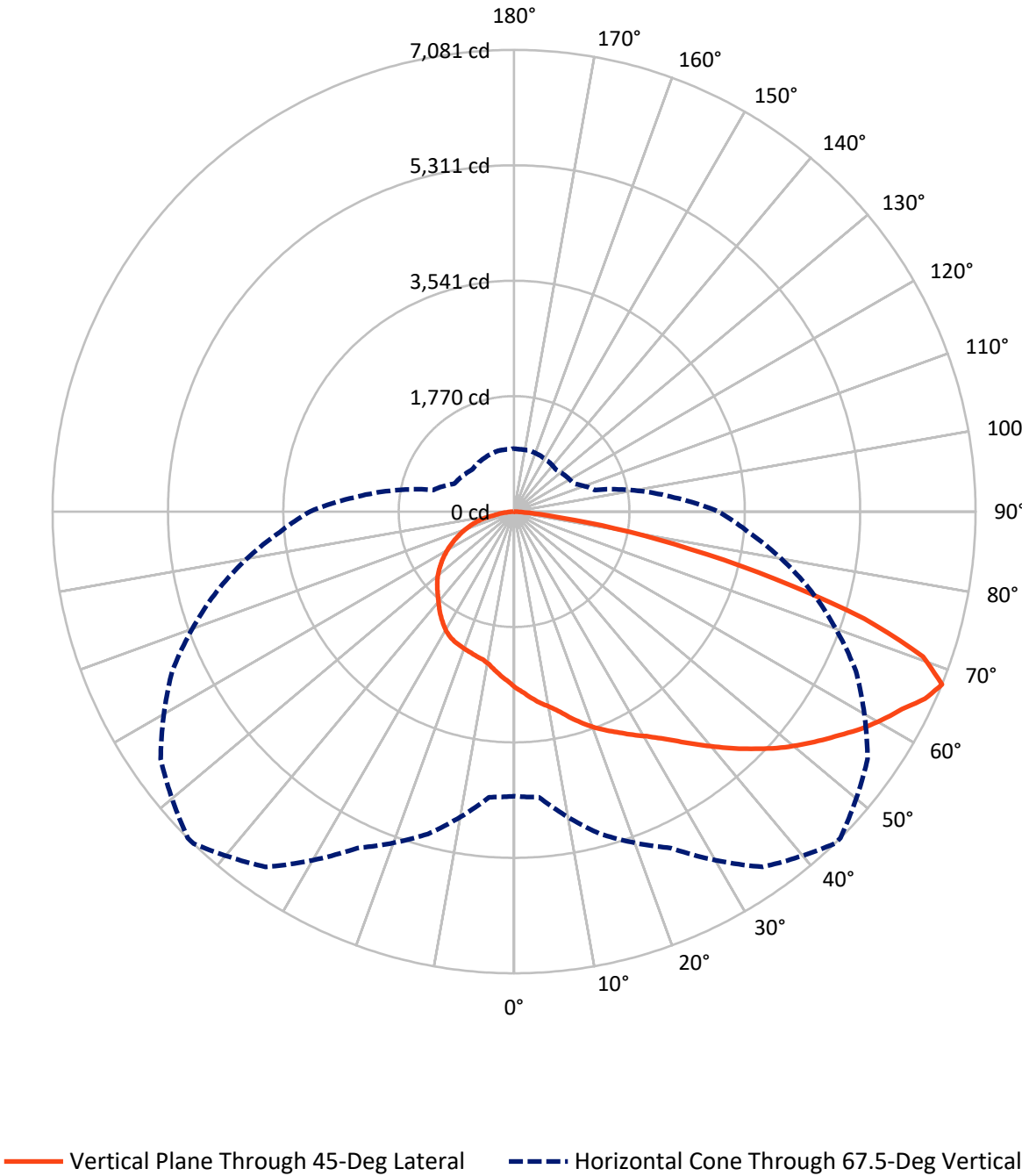


Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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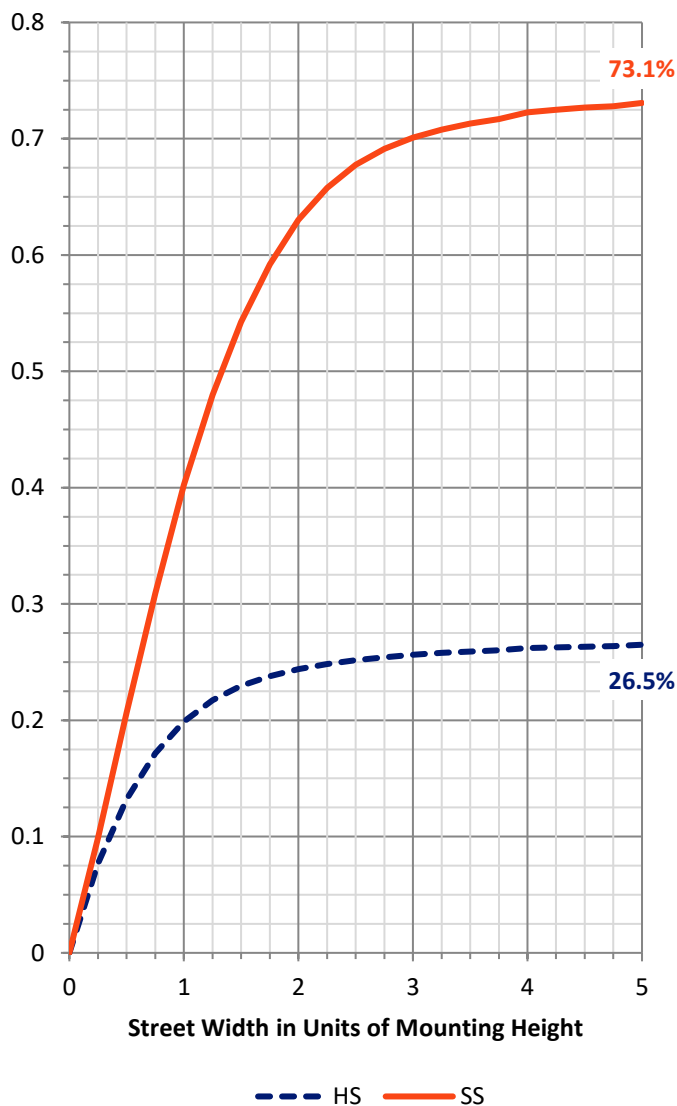
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4327.0	0.0	4327.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	11870.0	0.0	11870.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	16197.0	0.0	16197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	1.6
10°-20°	799.0	4.9
20°-30°	1379.1	8.5
30°-40°	2033.7	12.6
40°-50°	2755.3	17.0
50°-60°	3367.6	20.8
60°-70°	3473.2	21.4
70°-80°	1902.4	11.7
80°-90°	228.0	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°	16197.0	100.0
0°-180°	16197.0	100.0

Coefficient of Utilization



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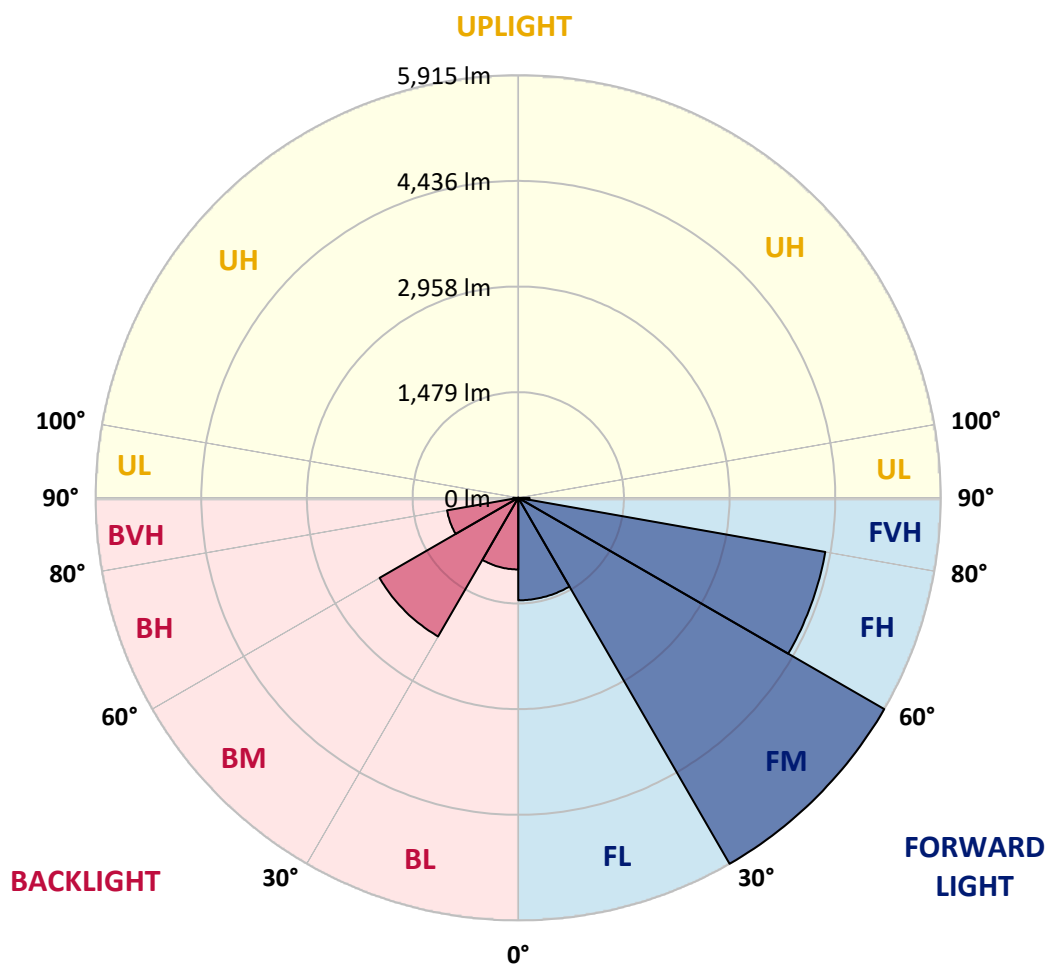
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1433.9	8.9			
FM	(30°-60°)	5915.3	36.5			
FH	(60°-80°)	4363.7	26.9			G2/5000
FVH	(80°-90°)	157.1	1.0			G2/225
BL	(0°-30°)	1002.9	6.2	B3/2500		
BM	(30°-60°)	2241.3	13.8	B2/2500		
BH	(60°-80°)	1011.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	70.9	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°	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4
2.5°	2819.7	2817.2	2822.1	2804.9	2782.7	2780.2	2780.2	2765.4	2748.2	2713.7	2686.6
5°	2952.8	2947.8	2950.3	2925.6	2896.1	2881.3	2878.8	2846.8	2807.3	2753.1	2703.8
7.5°	3076.0	3071.1	3068.6	3041.5	2997.1	2972.5	2970.0	2923.2	2876.3	2792.5	2721.1
10°	3191.8	3186.9	3182.0	3145.0	3090.8	3053.8	3048.9	2989.7	2930.6	2827.1	2735.9
12.5°	3339.7	3329.9	3324.9	3280.6	3201.7	3162.3	3154.9	3076.0	3002.1	2876.3	2765.4
15°	3495.0	3487.6	3480.2	3438.3	3349.6	3297.8	3285.5	3186.9	3085.9	2940.4	2809.8
17.5°	3610.8	3603.4	3603.4	3566.5	3485.1	3426.0	3416.1	3297.8	3172.1	2999.6	2844.3
20°	3682.3	3674.9	3682.3	3660.1	3598.5	3549.2	3539.4	3408.7	3258.4	3053.8	2873.9
22.5°	3734.1	3726.7	3739.0	3729.1	3684.8	3655.2	3647.8	3519.6	3347.1	3110.5	2903.5
25°	3825.3	3825.3	3825.3	3808.0	3766.1	3756.3	3756.3	3645.3	3460.5	3184.4	2947.8
27.5°	4007.7	3997.8	3985.5	3936.2	3864.7	3862.2	3877.0	3773.5	3591.1	3280.6	3002.1
30°	4276.3	4271.4	4224.6	4121.0	4000.3	3987.9	3997.8	3911.5	3731.6	3381.6	3063.7
32.5°	4623.8	4606.6	4510.5	4355.2	4182.7	4126.0	4145.7	4054.5	3879.5	3485.1	3122.8
35°	4870.3	4875.3	4806.2	4665.7	4461.2	4310.8	4325.6	4214.7	4039.7	3601.0	3196.8
37.5°	5153.8	5171.0	5067.5	4961.5	4771.7	4515.4	4530.2	4379.8	4199.9	3746.4	3275.6
40°	5545.7	5511.2	5336.2	5210.5	5001.0	4729.8	4742.2	4564.7	4384.8	3884.4	3366.8
42.5°	5873.5	5811.9	5599.9	5439.7	5188.3	4956.6	4968.9	4764.3	4572.1	4037.2	3467.9
45°	6344.2	6174.2	5868.5	5789.7	5380.5	5178.4	5190.7	4976.3	4769.3	4199.9	3576.3
47.5°	6617.8	6346.7	6152.0	6110.1	5592.5	5407.6	5422.4	5200.6	4981.2	4384.8	3689.7
50°	6600.6	6425.6	6368.9	6265.4	5779.8	5622.1	5636.9	5432.3	5195.7	4567.2	3798.2
52.5°	6487.2	6519.2	6489.7	6317.1	5967.1	5829.1	5846.4	5661.5	5415.0	4737.2	3899.2
55°	6662.2	6684.4	6627.7	6400.9	6174.2	6036.1	6055.9	5903.0	5631.9	4887.6	3985.5
57.5°	6871.7	6792.8	6736.1	6548.8	6388.6	6260.4	6282.6	6149.5	5819.2	5008.3	4052.0
60°	6861.8	6696.7	6753.4	6558.7	6534.0	6467.5	6487.2	6351.6	5962.2	5097.1	4079.1
62.5°	6356.6	6267.8	6553.7	6487.2	6652.3	6652.3	6677.0	6474.9	6048.5	5134.0	4064.4
65°	5479.1	5484.0	5986.8	6262.9	6792.8	6906.2	6925.9	6551.3	5999.2	5025.6	3926.3
67.5°	4365.1	4397.1	5119.3	5693.5	6652.3	7078.7	7081.2	6620.3	5787.2	4720.0	3605.9
70°	3194.3	3218.9	4071.7	4769.3	5989.3	6696.7	6657.3	6425.6	5326.3	4187.6	3105.6
72.5°	2159.1	2181.3	3058.7	3662.6	4914.7	5703.4	5617.1	5678.8	4540.0	3440.8	2496.8
75°	1451.7	1478.8	2176.4	2620.0	3615.8	4330.5	4138.3	4301.0	3512.3	2605.2	1821.4
77.5°	914.4	931.7	1382.7	1717.9	2469.7	2947.8	2755.6	2758.0	2023.5	1402.4	978.5
80°	581.7	586.6	838.0	990.8	1429.5	1772.1	1567.6	1274.3	912.0	744.4	584.1
82.5°	337.7	330.3	500.3	559.5	680.3	672.9	557.0	527.5	399.3	372.2	298.2
85°	135.6	125.7	219.4	204.6	207.0	219.4	162.7	162.7	130.6	101.1	73.9
87.5°	27.1	27.1	29.6	27.1	27.1	29.6	22.2	22.2	19.7	19.7	19.7
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°	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4	2701.4
2.5°	2681.6	2676.7	2664.4	2632.3	2615.1	2605.2	2590.4	2585.5	2583.0	2585.5	2592.9
5°	2689.0	2671.8	2637.3	2585.5	2551.0	2528.8	2504.2	2494.3	2486.9	2486.9	2494.3
7.5°	2694.0	2666.8	2607.7	2531.3	2482.0	2447.5	2417.9	2405.6	2403.1	2410.5	2413.0
10°	2696.4	2657.0	2573.2	2477.1	2413.0	2368.6	2339.0	2331.6	2339.0	2353.8	2356.3
12.5°	2713.7	2659.5	2553.5	2440.1	2363.7	2319.3	2297.1	2297.1	2316.9	2344.0	2346.4
15°	2743.3	2676.7	2543.6	2410.5	2331.6	2292.2	2284.8	2297.1	2326.7	2368.6	2373.5
17.5°	2765.4	2686.6	2521.4	2371.1	2289.7	2265.1	2277.4	2307.0	2348.9	2405.6	2410.5
20°	2780.2	2686.6	2489.4	2324.2	2247.8	2242.9	2277.4	2324.2	2368.6	2435.2	2442.6
22.5°	2795.0	2681.6	2452.4	2267.6	2201.0	2215.8	2279.9	2339.0	2383.4	2454.9	2467.2
25°	2822.1	2689.0	2415.4	2210.9	2151.7	2193.6	2277.4	2348.9	2395.7	2469.7	2489.4
27.5°	2859.1	2706.3	2388.3	2159.1	2102.4	2159.1	2260.2	2346.4	2395.7	2467.2	2489.4
30°	2898.5	2726.0	2356.3	2102.4	2045.7	2109.8	2223.2	2319.3	2376.0	2442.6	2469.7
32.5°	2940.4	2748.2	2329.2	2040.8	1976.7	2043.3	2169.0	2277.4	2339.0	2400.7	2430.2
35°	2997.1	2787.6	2314.4	1991.5	1915.1	1974.3	2100.0	2223.2	2289.7	2346.4	2380.9
37.5°	3066.1	2836.9	2307.0	1942.2	1848.6	1897.8	2026.0	2156.6	2228.1	2275.0	2307.0
40°	3145.0	2898.5	2304.5	1895.4	1782.0	1819.0	1949.6	2080.2	2149.3	2186.2	2213.3
42.5°	3233.7	2967.5	2299.6	1848.6	1715.5	1745.0	1875.7	2003.8	2063.0	2095.0	2119.7
45°	3327.4	3036.6	2289.7	1791.9	1644.0	1678.5	1799.3	1912.6	1974.3	2001.4	2028.5
47.5°	3421.1	3105.6	2270.0	1727.8	1579.9	1611.9	1717.9	1816.5	1865.8	1890.5	1917.6
50°	3512.3	3167.2	2223.2	1653.8	1513.3	1542.9	1624.3	1690.8	1727.8	1747.5	1774.6
52.5°	3593.6	3209.1	2156.6	1567.6	1446.8	1461.6	1515.8	1572.5	1602.1	1604.5	1629.2
55°	3662.6	3231.3	2060.5	1478.8	1375.3	1377.8	1407.4	1451.7	1464.1	1454.2	1471.4
57.5°	3702.0	3218.9	1954.5	1387.6	1301.4	1291.5	1313.7	1335.9	1338.4	1313.7	1331.0
60°	3711.9	3162.3	1816.5	1296.5	1227.4	1200.3	1207.7	1202.8	1197.9	1188.0	1202.8
62.5°	3662.6	3041.5	1663.7	1207.7	1148.6	1106.7	1104.2	1101.7	1109.1	1111.6	1114.1
65°	3482.7	2814.7	1481.3	1116.5	1064.8	1008.1	1005.6	1035.2	1045.0	1030.3	1035.2
67.5°	3135.1	2467.2	1281.7	1010.5	958.8	909.5	929.2	946.5	963.7	958.8	963.7
70°	2642.2	2026.0	1099.3	892.2	842.9	815.8	838.0	852.8	855.3	850.3	855.3
72.5°	2077.8	1582.4	929.2	771.5	727.1	714.8	741.9	754.2	776.4	786.3	788.7
75°	1501.0	1168.3	761.6	640.8	603.9	603.9	628.5	650.7	670.4	658.1	650.7
77.5°	838.0	697.5	547.2	441.2	448.6	483.1	492.9	517.6	537.3	534.8	529.9
80°	507.7	436.3	369.7	285.9	283.4	310.6	374.6	416.5	426.4	404.2	401.8
82.5°	263.7	229.2	197.2	160.2	177.5	207.0	216.9	261.3	288.4	278.5	290.8
85°	66.5	64.1	71.5	73.9	91.2	101.1	110.9	130.6	86.3	41.9	41.9
87.5°	19.7	19.7	24.6	24.6	32.0	39.4	37.0	37.0	19.7	2.5	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)