

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: P841080

Luminaire Tested: **ARCH4-130-722-U-T4W**

Issue Date: 5/27/2024

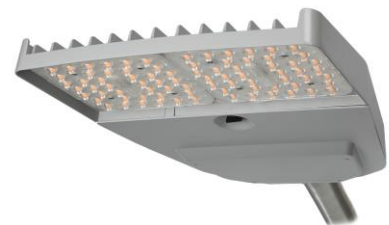
Test Information

Test Method: LM-79-08
Report Number: P841080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18832 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 132
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

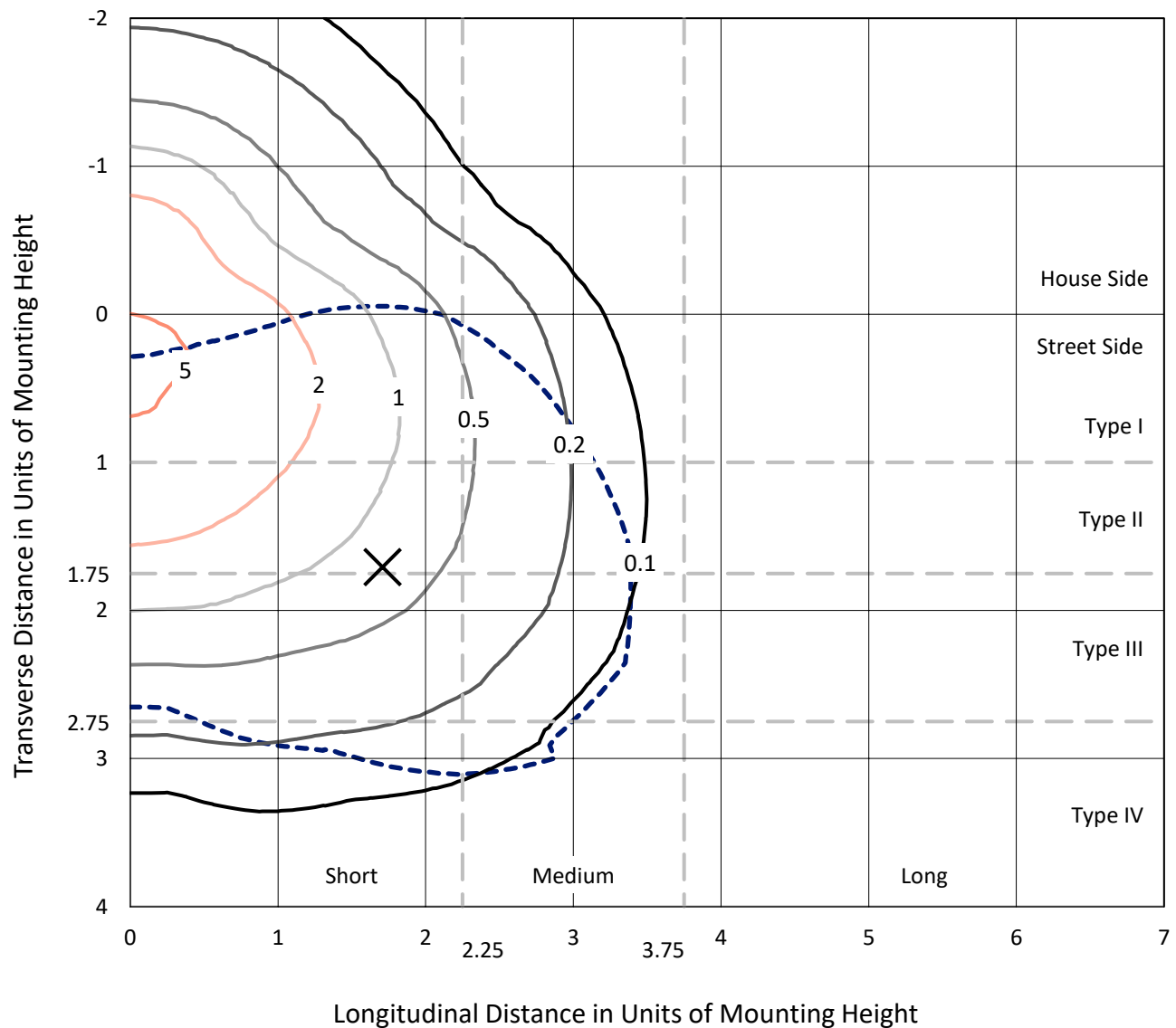


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Iso-Footcandle Lines of Horizontal Illumination

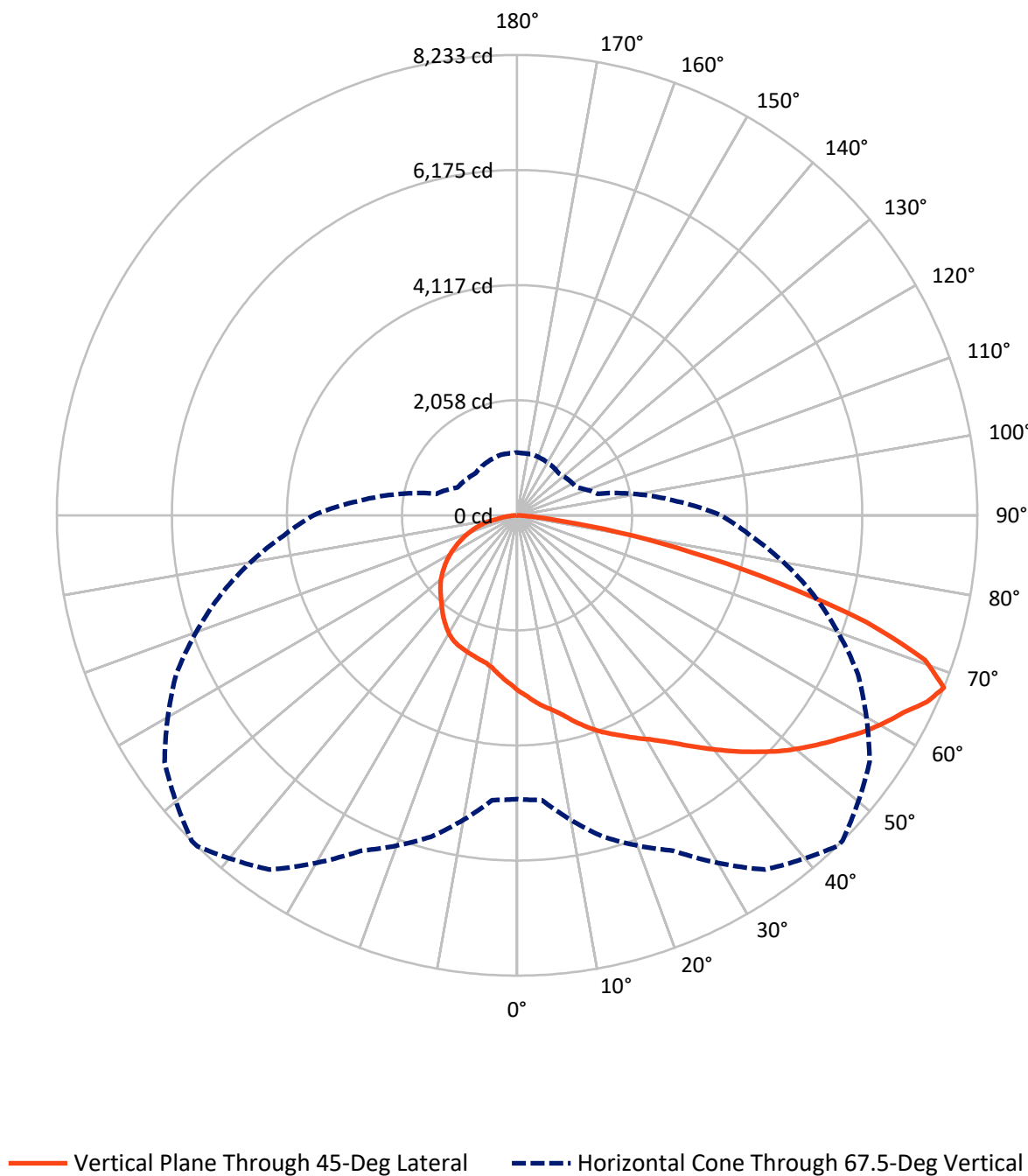
× Max cd
- - - 1/2 Max cd



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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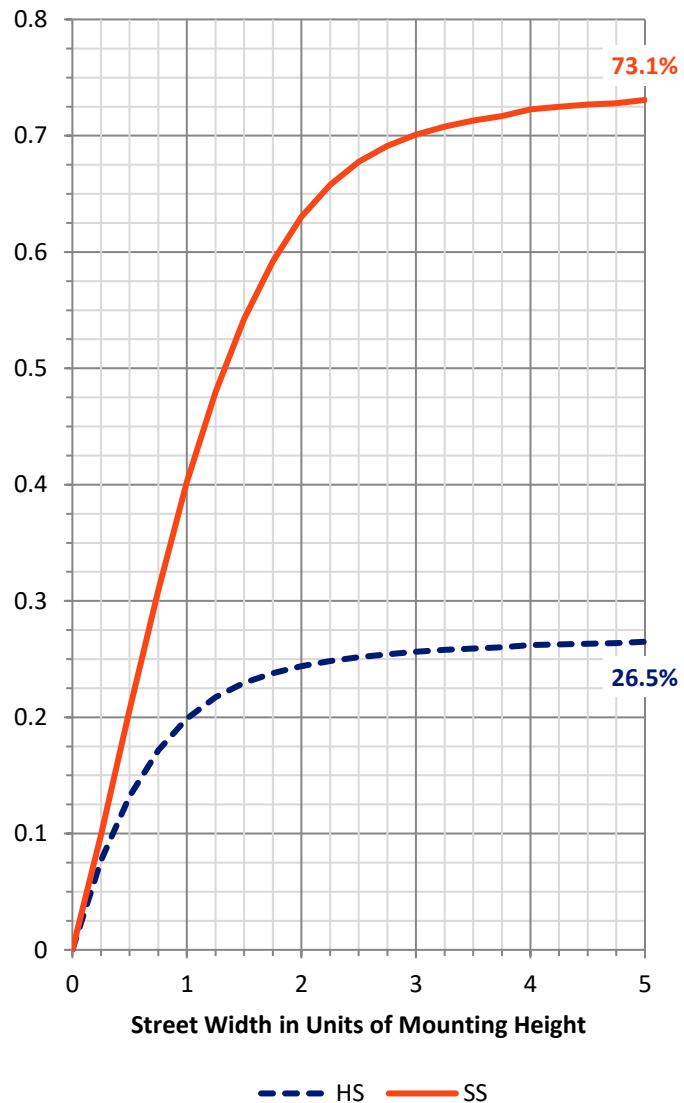
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5031.0	0.0	5031.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	13801.0	0.0	13801.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	18832.0	0.0	18832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	1.6
10°-20°	928.9	4.9
20°-30°	1603.5	8.5
30°-40°	2364.6	12.6
40°-50°	3203.5	17.0
50°-60°	3915.5	20.8
60°-70°	4038.3	21.4
70°-80°	2211.9	11.7
80°-90°	265.1	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°	18832.0	100.0
0°-180°	18832.0	100.0

Coefficient of Utilization



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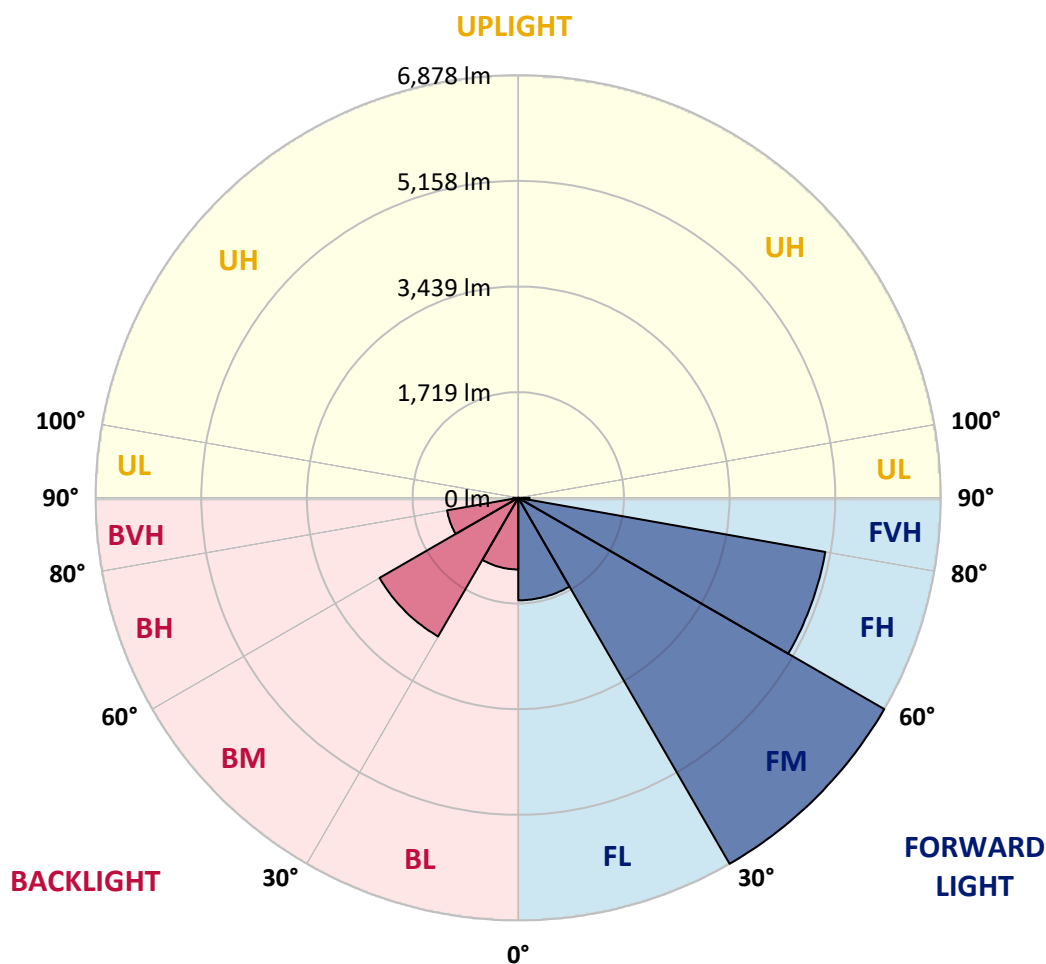
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1667.1	8.9			
FM	(30°-60°)	6877.6	36.5			
FH	(60°-80°)	5073.6	26.9			G3/7500
FVH	(80°-90°)	182.6	1.0			G2/225
BL	(0°-30°)	1166.0	6.2	B3/2500		
BM	(30°-60°)	2606.0	13.8	B3/5000		
BH	(60°-80°)	1176.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	82.5	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°	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8
2.5°	3278.4	3275.5	3281.2	3261.2	3235.4	3232.5	3232.5	3215.3	3195.3	3155.1	3123.6
5°	3433.1	3427.4	3430.3	3401.6	3367.2	3350.0	3347.2	3309.9	3264.0	3201.0	3143.7
7.5°	3576.4	3570.7	3567.8	3536.3	3484.7	3456.0	3453.2	3398.7	3344.3	3246.9	3163.7
10°	3711.1	3705.4	3699.6	3656.6	3593.6	3550.6	3544.9	3476.1	3407.3	3287.0	3180.9
12.5°	3883.0	3871.6	3865.8	3814.3	3722.6	3676.7	3668.1	3576.4	3490.4	3344.3	3215.3
15°	4063.6	4055.0	4046.4	3997.7	3894.5	3834.3	3820.0	3705.4	3587.9	3418.8	3266.9
17.5°	4198.3	4189.7	4189.7	4146.7	4052.1	3983.3	3971.9	3834.3	3688.2	3487.6	3307.0
20°	4281.4	4272.8	4281.4	4255.6	4183.9	4126.6	4115.2	3963.3	3788.5	3550.6	3341.4
22.5°	4341.6	4333.0	4347.3	4335.8	4284.2	4249.9	4241.3	4092.2	3891.6	3616.5	3375.8
25°	4447.6	4447.6	4447.6	4427.5	4378.8	4367.3	4367.3	4238.4	4023.5	3702.5	3427.4
27.5°	4659.6	4648.2	4633.9	4576.5	4493.4	4490.6	4507.8	4387.4	4175.3	3814.3	3490.4
30°	4972.0	4966.3	4911.8	4791.5	4651.1	4636.7	4648.2	4547.9	4338.7	3931.8	3562.1
32.5°	5376.1	5356.0	5244.3	5063.7	4863.1	4797.2	4820.1	4714.1	4510.6	4052.1	3630.9
35°	5662.6	5668.4	5588.1	5424.8	5186.9	5012.1	5029.3	4900.4	4696.9	4186.8	3716.8
37.5°	5992.2	6012.3	5891.9	5768.7	5548.0	5250.0	5267.2	5092.4	4883.2	4355.9	3808.5
40°	6447.9	6407.7	6204.3	6058.1	5814.5	5499.3	5513.6	5307.3	5098.1	4516.4	3914.6
42.5°	6829.0	6757.3	6510.9	6324.6	6032.3	5762.9	5777.3	5539.4	5315.9	4694.0	4032.1
45°	7376.3	7178.6	6823.3	6731.6	6255.8	6020.9	6035.2	5785.9	5545.2	4883.2	4158.1
47.5°	7694.4	7379.2	7152.8	7104.1	6502.3	6287.4	6304.6	6046.7	5791.6	5098.1	4290.0
50°	7674.4	7470.9	7405.0	7284.6	6720.1	6536.7	6553.9	6316.0	6040.9	5310.2	4416.1
52.5°	7542.6	7579.8	7545.4	7344.8	6937.9	6777.4	6797.5	6582.5	6296.0	5507.9	4533.6
55°	7746.0	7771.8	7705.9	7442.3	7178.6	7018.1	7041.1	6863.4	6548.2	5682.7	4633.9
57.5°	7989.6	7897.9	7832.0	7614.2	7427.9	7278.9	7304.7	7150.0	6765.9	5823.1	4711.2
60°	7978.1	7786.1	7852.1	7625.7	7597.0	7519.6	7542.6	7384.9	6932.2	5926.3	4742.8
62.5°	7390.7	7287.5	7619.9	7542.6	7734.6	7734.6	7763.2	7528.2	7032.5	5969.3	4725.6
65°	6370.5	6376.2	6960.8	7281.8	7897.9	8029.7	8052.7	7617.1	6975.1	5843.2	4565.1
67.5°	5075.2	5112.4	5952.1	6619.8	7734.6	8230.3	8233.2	7697.3	6728.7	5487.8	4192.5
70°	3714.0	3742.6	4734.2	5545.2	6963.7	7786.1	7740.3	7470.9	6192.8	4868.8	3610.8
72.5°	2510.4	2536.2	3556.3	4258.4	5714.2	6631.3	6531.0	6602.6	5278.6	4000.5	2903.0
75°	1687.9	1719.4	2530.4	3046.3	4204.0	5035.1	4811.5	5000.7	4083.6	3029.1	2117.8
77.5°	1063.2	1083.2	1607.7	1997.4	2871.4	3427.4	3203.9	3206.7	2352.7	1630.6	1137.7
80°	676.3	682.0	974.3	1152.0	1662.1	2060.4	1822.6	1481.6	1060.3	865.4	679.2
82.5°	392.6	384.0	581.7	650.5	790.9	782.3	647.7	613.3	464.2	432.7	346.8
85°	157.6	146.2	255.0	237.9	240.7	255.0	189.1	189.1	151.9	117.5	86.0
87.5°	31.5	31.5	34.4	31.5	31.5	34.4	25.8	25.8	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°	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8	3140.8
2.5°	3117.9	3112.2	3097.8	3060.6	3040.5	3029.1	3011.9	3006.1	3003.3	3006.1	3014.7
5°	3126.5	3106.4	3066.3	3006.1	2966.0	2940.2	2911.6	2900.1	2891.5	2891.5	2900.1
7.5°	3132.2	3100.7	3031.9	2943.1	2885.8	2845.7	2811.3	2796.9	2794.1	2802.7	2805.5
10°	3135.1	3089.2	2991.8	2880.0	2805.5	2753.9	2719.6	2711.0	2719.6	2736.8	2739.6
12.5°	3155.1	3092.1	2968.9	2837.1	2748.2	2696.6	2670.8	2670.8	2693.8	2725.3	2728.2
15°	3189.5	3112.2	2957.4	2802.7	2711.0	2665.1	2656.5	2670.8	2705.2	2753.9	2759.7
17.5°	3215.3	3123.6	2931.6	2756.8	2662.2	2633.6	2647.9	2682.3	2731.0	2796.9	2802.7
20°	3232.5	3123.6	2894.4	2702.4	2613.5	2607.8	2647.9	2702.4	2753.9	2831.3	2839.9
22.5°	3249.7	3117.9	2851.4	2636.5	2559.1	2576.3	2650.8	2719.6	2771.1	2854.2	2868.6
25°	3281.2	3126.5	2808.4	2570.5	2501.8	2550.5	2647.9	2731.0	2785.5	2871.4	2894.4
27.5°	3324.2	3146.6	2776.9	2510.4	2444.5	2510.4	2627.9	2728.2	2785.5	2868.6	2894.4
30°	3370.1	3169.5	2739.6	2444.5	2378.5	2453.0	2584.9	2696.6	2762.5	2839.9	2871.4
32.5°	3418.8	3195.3	2708.1	2372.8	2298.3	2375.7	2521.8	2647.9	2719.6	2791.2	2825.6
35°	3484.7	3241.1	2690.9	2315.5	2226.7	2295.4	2441.6	2584.9	2662.2	2728.2	2768.3
37.5°	3564.9	3298.4	2682.3	2258.2	2149.3	2206.6	2355.6	2507.5	2590.6	2645.1	2682.3
40°	3656.6	3370.1	2679.4	2203.7	2071.9	2114.9	2266.8	2418.7	2498.9	2541.9	2573.4
42.5°	3759.8	3450.3	2673.7	2149.3	1994.5	2028.9	2180.8	2329.8	2398.6	2435.9	2464.5
45°	3868.7	3530.6	2662.2	2083.4	1911.4	1951.5	2092.0	2223.8	2295.4	2327.0	2358.5
47.5°	3977.6	3610.8	2639.3	2008.9	1836.9	1874.2	1997.4	2112.0	2169.3	2198.0	2229.5
50°	4083.6	3682.4	2584.9	1922.9	1759.5	1793.9	1888.5	1965.9	2008.9	2031.8	2063.3
52.5°	4178.2	3731.2	2507.5	1822.6	1682.2	1699.4	1762.4	1828.3	1862.7	1865.6	1894.2
55°	4258.4	3756.9	2395.7	1719.4	1599.1	1601.9	1636.3	1687.9	1702.2	1690.8	1710.8
57.5°	4304.3	3742.6	2272.5	1613.4	1513.1	1501.6	1527.4	1553.2	1556.1	1527.4	1547.5
60°	4315.8	3676.7	2112.0	1507.4	1427.1	1395.6	1404.2	1398.5	1392.7	1381.3	1398.5
62.5°	4258.4	3536.3	1934.4	1404.2	1335.4	1286.7	1283.8	1281.0	1289.6	1292.4	1295.3
65°	4049.3	3272.6	1722.3	1298.2	1238.0	1172.1	1169.2	1203.6	1215.1	1197.9	1203.6
67.5°	3645.2	2868.6	1490.2	1174.9	1114.8	1057.4	1080.4	1100.4	1120.5	1114.8	1120.5
70°	3072.0	2355.6	1278.1	1037.4	980.1	948.6	974.3	991.5	994.4	988.7	994.4
72.5°	2415.8	1839.8	1080.4	897.0	845.4	831.1	862.6	876.9	902.7	914.2	917.0
75°	1745.2	1358.3	885.5	745.1	702.1	702.1	730.8	756.5	779.5	765.1	756.5
77.5°	974.3	811.0	636.2	513.0	521.6	561.7	573.1	601.8	624.7	621.9	616.1
80°	590.3	507.2	429.9	332.4	329.6	361.1	435.6	484.3	495.8	470.0	467.1
82.5°	306.6	266.5	229.3	186.3	206.3	240.7	252.2	303.8	335.3	323.8	338.2
85°	77.4	74.5	83.1	86.0	106.0	117.5	129.0	151.9	100.3	48.7	48.7
87.5°	22.9	22.9	28.7	28.7	37.3	45.9	43.0	43.0	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)