

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: P1210357

Luminaire Tested: **ARCH3-100-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13436 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

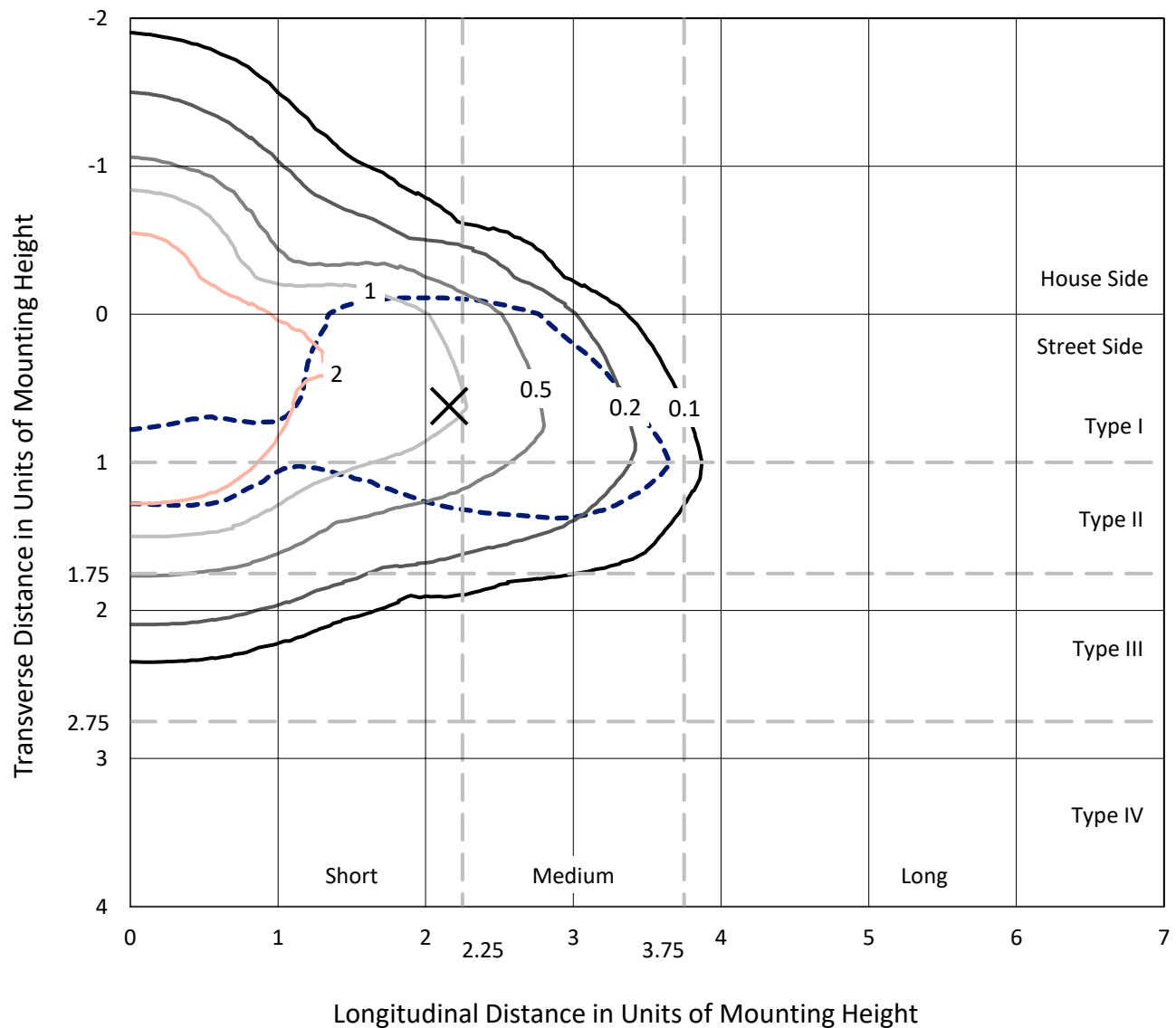


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Iso-Footcandle Lines of Horizontal Illumination

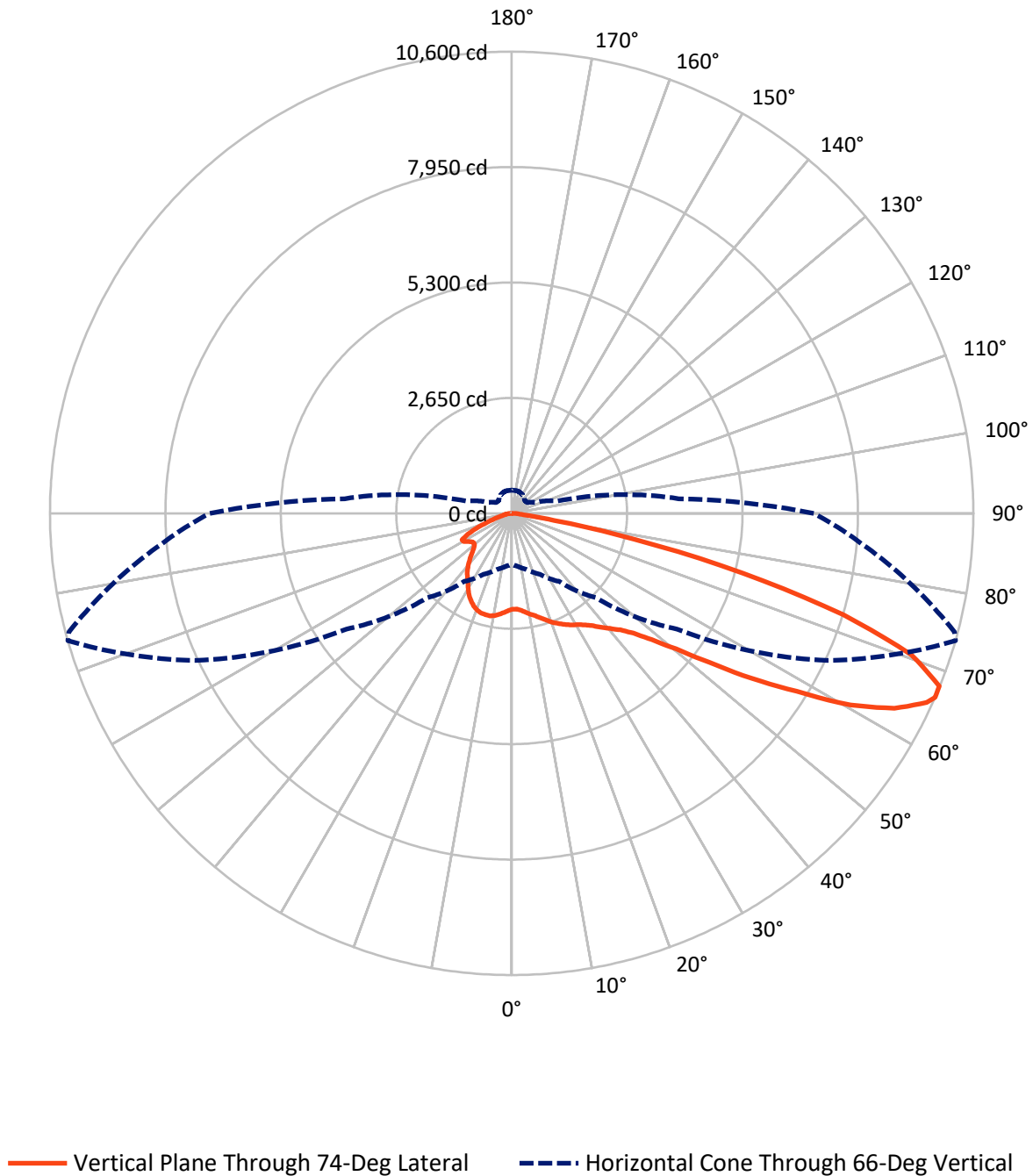
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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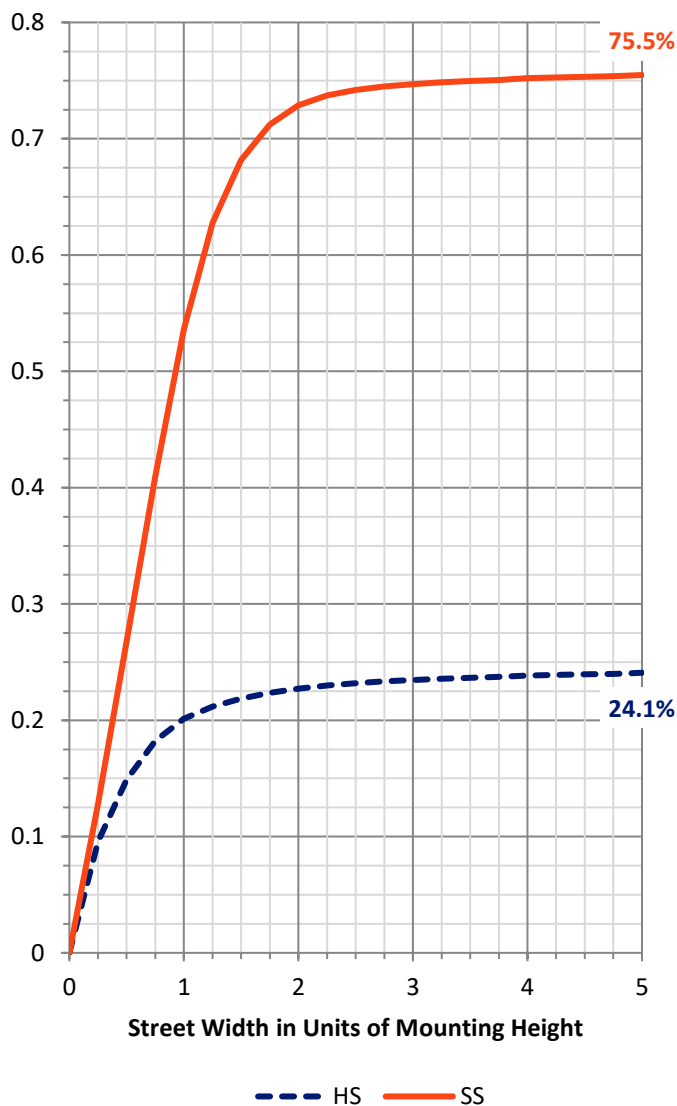
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3272.0	0.0	3272.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10164.0	0.0	10164.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	13436.0	0.0	13436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	1.6
10°-20°	646.1	4.8
20°-30°	1212.5	9.0
30°-40°	1865.1	13.9
40°-50°	2508.7	18.7
50°-60°	2966.8	22.1
60°-70°	2744.4	20.4
70°-80°	1154.6	8.6
80°-90°	127.8	1.0
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°	13436.0	100.0
0°-180°	13436.0	100.0

Coefficient of Utilization



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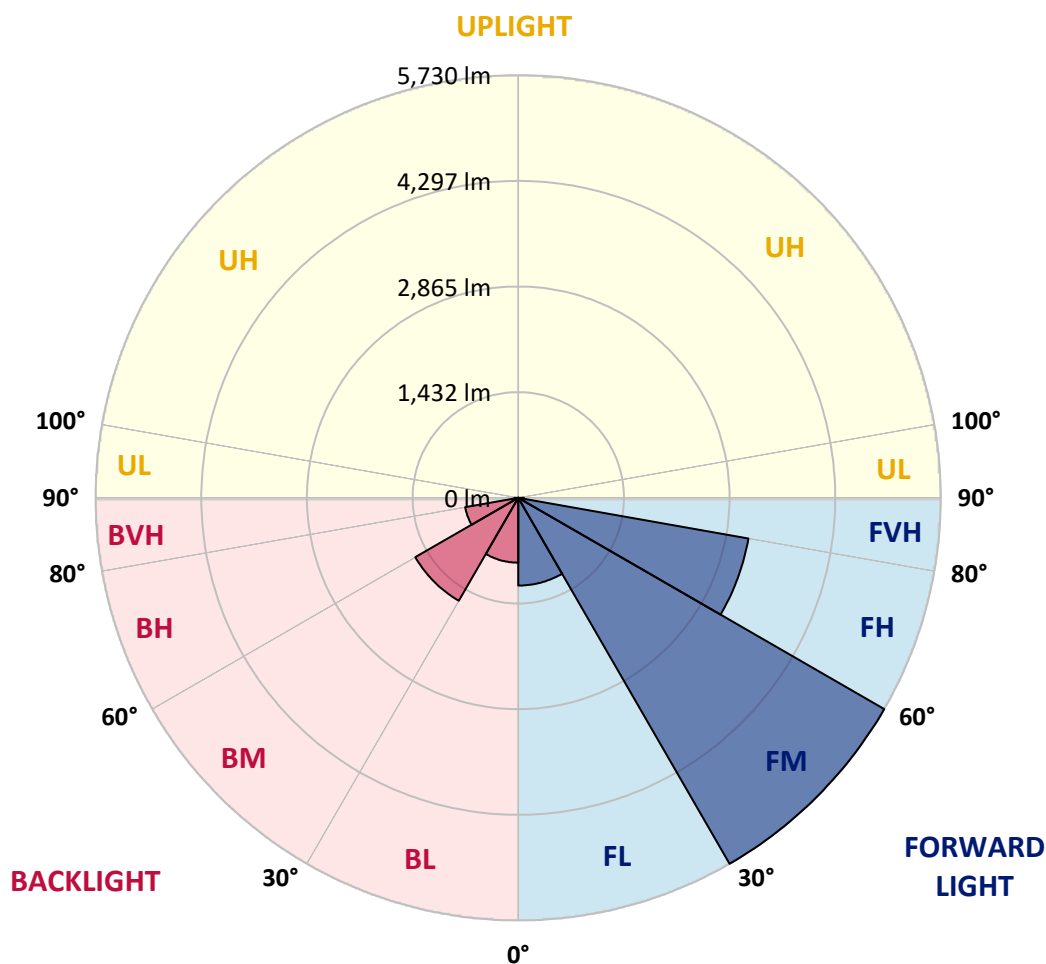
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1189.2	8.9			
FM	(30°-60°)	5729.7	42.6			
FH	(60°-80°)	3168.6	23.6			G2/5000
FVH	(80°-90°)	76.4	0.6			G1/100
BL	(0°-30°)	879.4	6.5	B2/1000		
BM	(30°-60°)	1610.8	12.0	B2/2500		
BH	(60°-80°)	730.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	51.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6
2.5°	2195.7	2192.2	2199.1	2209.5	2214.7	2206.1	2202.6	2200.9	2200.9	2195.7	2204.3
5°	2092.0	2090.2	2105.8	2124.8	2161.1	2187.0	2221.6	2242.4	2235.5	2225.1	2232.0
7.5°	1957.1	1953.6	1972.7	2009.0	2059.1	2116.2	2200.9	2266.6	2292.5	2289.1	2287.3
10°	2009.0	2005.5	2003.8	1993.4	2010.7	2066.0	2154.2	2270.0	2358.2	2359.9	2361.7
12.5°	2188.8	2197.4	2188.8	2155.9	2117.9	2097.1	2149.0	2278.7	2413.5	2423.9	2467.1
15°	2434.3	2425.6	2408.3	2370.3	2311.5	2249.3	2211.3	2318.4	2493.1	2501.7	2596.8
17.5°	2650.4	2657.3	2646.9	2610.6	2541.5	2460.2	2344.4	2387.6	2577.8	2602.0	2735.1
20°	2885.5	2913.2	2899.4	2854.4	2797.3	2676.3	2531.1	2487.9	2671.1	2688.4	2878.6
22.5°	3157.0	3186.3	3160.4	3117.2	3070.5	2921.8	2735.1	2610.6	2748.9	2785.2	3016.9
25°	3482.0	3509.6	3485.4	3418.0	3359.2	3177.7	2954.7	2748.9	2825.0	2864.8	3129.3
27.5°	3739.6	3760.3	3782.8	3743.0	3653.1	3464.7	3182.9	2892.4	2901.1	2942.6	3233.0
30°	3969.5	4021.4	4040.4	4045.6	3969.5	3758.6	3416.3	3041.1	2966.8	3010.0	3336.8
32.5°	4284.2	4362.0	4330.9	4362.0	4317.0	4035.2	3658.3	3195.0	3051.5	3091.3	3435.3
35°	4744.1	4806.3	4725.1	4700.9	4628.2	4315.3	3891.7	3354.0	3163.9	3207.1	3528.7
37.5°	5238.5	5309.4	5191.9	5095.0	4956.7	4591.9	4092.3	3563.2	3319.5	3354.0	3615.1
40°	5670.8	5729.5	5627.5	5499.6	5267.9	4835.7	4265.2	3710.2	3475.1	3518.3	3715.4
42.5°	6070.1	6108.2	5994.1	5871.3	5561.8	5055.3	4451.9	3865.8	3656.6	3698.1	3796.6
45°	6474.7	6504.1	6345.0	6170.4	5807.3	5255.8	4657.6	4083.6	3922.9	3978.2	3928.0
47.5°	6547.3	6556.0	6528.3	6410.7	6001.0	5447.7	4911.8	4375.8	4329.1	4389.7	4154.5
50°	6044.2	6122.0	6293.2	6409.0	6078.8	5608.5	5165.9	4794.2	4889.3	4967.1	4624.8
52.5°	5067.4	5141.7	5537.6	5976.8	5892.1	5644.8	5439.1	5325.0	5679.4	5772.8	5264.5
55°	4037.0	4102.7	4521.0	5153.8	5288.7	5478.9	5731.3	6002.7	6687.4	6749.6	5966.4
57.5°	3324.7	3361.0	3660.1	4268.6	4484.7	4948.1	5888.6	6808.4	7712.6	7807.7	6576.7
60°	2726.5	2766.2	2989.3	3490.6	3777.6	4189.1	5764.1	7603.7	8936.6	8936.6	7359.9
62.5°	2052.2	2086.8	2294.2	2686.7	3169.1	3546.0	5366.5	8131.0	9859.9	9818.4	7927.0
65°	1409.0	1436.7	1587.1	1848.2	2282.1	3022.1	4823.6	8137.9	10471.9	10416.6	8169.0
66°	1182.6	1206.8	1334.7	1545.6	1910.4	2742.0	4631.7	7990.9	10599.8	10522.0	8067.0
67.5°	933.6	950.9	1035.6	1160.1	1400.4	2219.9	4329.1	7574.3	10587.7	10541.0	7807.7
70°	667.4	679.5	741.7	767.6	828.1	1284.6	3438.8	6633.8	9738.8	9752.7	6787.6
72.5°	516.9	536.0	574.0	579.2	565.3	682.9	2086.8	5534.2	7966.7	7961.5	5038.0
75°	416.7	427.0	446.1	456.4	453.0	440.9	883.5	4128.6	5484.0	5548.0	2821.6
77.5°	328.5	326.8	344.0	357.9	368.3	345.8	404.6	2420.4	2875.1	2793.9	1059.8
80°	242.0	242.0	266.2	271.4	287.0	290.5	269.7	933.6	987.2	897.3	274.9
82.5°	159.1	159.1	185.0	188.4	204.0	226.5	195.4	280.1	273.2	259.3	124.5
85°	86.4	83.0	91.6	103.7	112.4	133.1	117.6	140.0	143.5	141.8	83.0
87.5°	17.3	15.6	24.2	27.7	31.1	41.5	38.0	57.1	79.5	77.8	36.3
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°	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6	2202.6
2.5°	2216.4	2214.7	2233.7	2256.2	2282.1	2297.7	2304.6	2316.7	2308.1	2311.5	2321.9
5°	2249.3	2254.5	2282.1	2311.5	2323.6	2315.0	2296.0	2289.1	2273.5	2270.0	2266.6
7.5°	2297.7	2306.3	2334.0	2340.9	2304.6	2244.1	2200.9	2176.7	2150.7	2143.8	2140.4
10°	2377.2	2382.4	2389.3	2318.4	2228.5	2147.3	2093.7	2071.2	2053.9	2040.1	2043.5
12.5°	2477.5	2474.0	2420.4	2273.5	2145.6	2062.6	2026.3	2012.4	2000.3	1991.7	1990.0
15°	2603.7	2579.5	2425.6	2211.3	2067.8	1998.6	1972.7	1967.5	1953.6	1953.6	1951.9
17.5°	2731.6	2669.4	2422.2	2145.6	1993.4	1955.4	1939.8	1936.4	1932.9	1931.2	1936.4
20°	2859.6	2748.9	2394.5	2064.3	1941.5	1919.1	1915.6	1917.3	1913.9	1919.1	1915.6
22.5°	2972.0	2800.8	2342.6	1977.9	1905.2	1903.5	1894.9	1898.3	1910.4	1912.2	1917.3
25°	3058.4	2819.8	2266.6	1898.3	1879.3	1875.8	1886.2	1900.1	1910.4	1912.2	1920.8
27.5°	3129.3	2809.4	2171.5	1836.1	1834.4	1853.4	1884.5	1889.7	1891.4	1891.4	1884.5
30°	3182.9	2787.0	2050.5	1766.9	1775.6	1822.3	1851.6	1851.6	1837.8	1834.4	1844.7
32.5°	3195.0	2757.6	1919.1	1696.0	1709.9	1765.2	1801.5	1789.4	1773.8	1773.8	1780.8
35°	3205.4	2717.8	1813.6	1599.2	1620.0	1685.7	1720.2	1696.0	1678.8	1673.6	1671.8
37.5°	3201.9	2702.3	1718.5	1476.5	1504.1	1568.1	1590.6	1568.1	1542.2	1530.1	1545.6
40°	3205.4	2691.9	1599.2	1341.6	1369.3	1407.3	1436.7	1419.4	1395.2	1364.1	1379.7
42.5°	3226.1	2705.7	1467.8	1210.2	1210.2	1231.0	1281.1	1269.0	1210.2	1198.1	1212.0
45°	3336.8	2780.1	1336.4	1078.8	1059.8	1073.6	1125.5	1073.6	1037.3	1037.3	1049.4
47.5°	3604.7	2918.4	1220.6	963.0	918.0	945.7	959.5	911.1	883.5	876.5	888.6
50°	4151.1	3195.0	1151.4	867.9	812.6	833.3	824.7	823.0	795.3	798.7	805.7
52.5°	4980.9	3734.4	1130.7	821.2	752.1	757.3	748.6	752.1	746.9	764.2	769.4
55°	5885.1	4303.2	1156.6	828.1	710.6	674.3	677.7	695.0	715.8	743.4	748.6
57.5°	6561.1	4588.5	1224.1	874.8	658.7	603.4	612.0	644.9	684.6	707.1	719.2
60°	7064.2	4553.9	1322.6	886.9	596.5	539.4	555.0	603.4	638.0	657.0	669.1
62.5°	7228.5	4337.8	1346.8	798.7	515.2	478.9	516.9	567.1	582.6	603.4	612.0
65°	7093.6	4031.8	1170.5	648.3	453.0	434.0	489.3	527.3	548.1	558.4	560.2
66°	6934.6	3848.5	1075.4	589.6	430.5	420.1	478.9	510.0	530.8	529.0	530.8
67.5°	6585.3	3464.7	921.5	506.6	397.6	399.4	461.6	482.4	489.3	484.1	484.1
70°	5397.6	2439.5	660.4	383.8	349.2	373.4	414.9	420.1	435.7	428.8	428.8
72.5°	3328.1	1198.1	442.6	293.9	311.2	349.2	347.5	364.8	401.1	411.5	418.4
75°	1635.5	485.8	292.2	249.0	278.4	292.2	288.7	331.9	383.8	428.8	444.3
77.5°	620.7	242.0	204.0	217.8	224.8	219.6	229.9	300.8	383.8	465.1	480.6
80°	191.9	167.7	160.8	179.8	169.4	160.8	172.9	249.0	325.0	352.7	352.7
82.5°	115.8	131.4	124.5	122.8	114.1	115.8	124.5	178.1	250.7	262.8	262.8
85°	81.3	86.4	70.9	67.4	65.7	64.0	64.0	103.7	148.7	147.0	152.1
87.5°	31.1	34.6	25.9	25.9	24.2	17.3	13.8	17.3	17.3	12.1	8.6
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)