

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: P842734

Luminaire Tested: **ARCH4-90-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14042 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

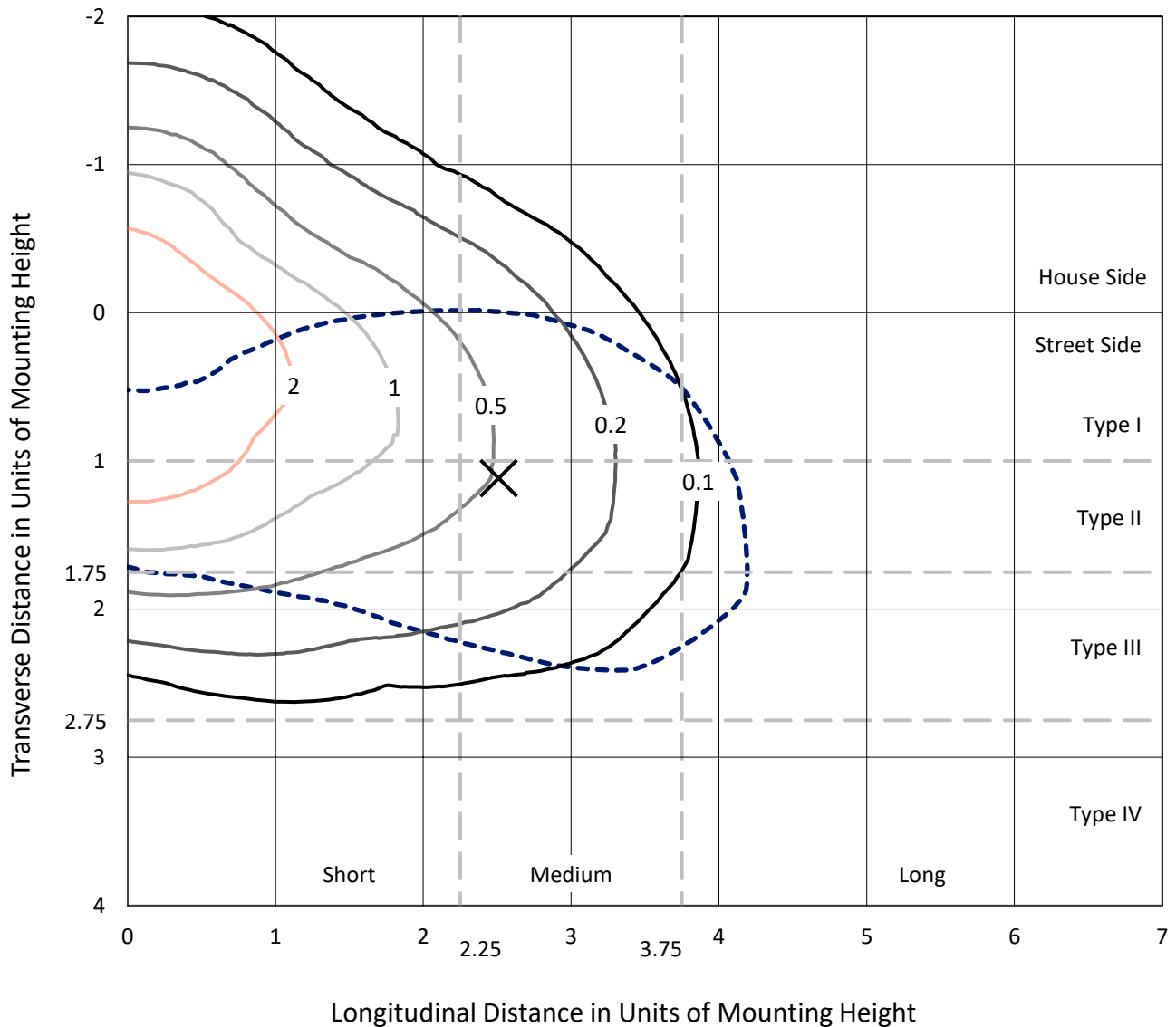
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

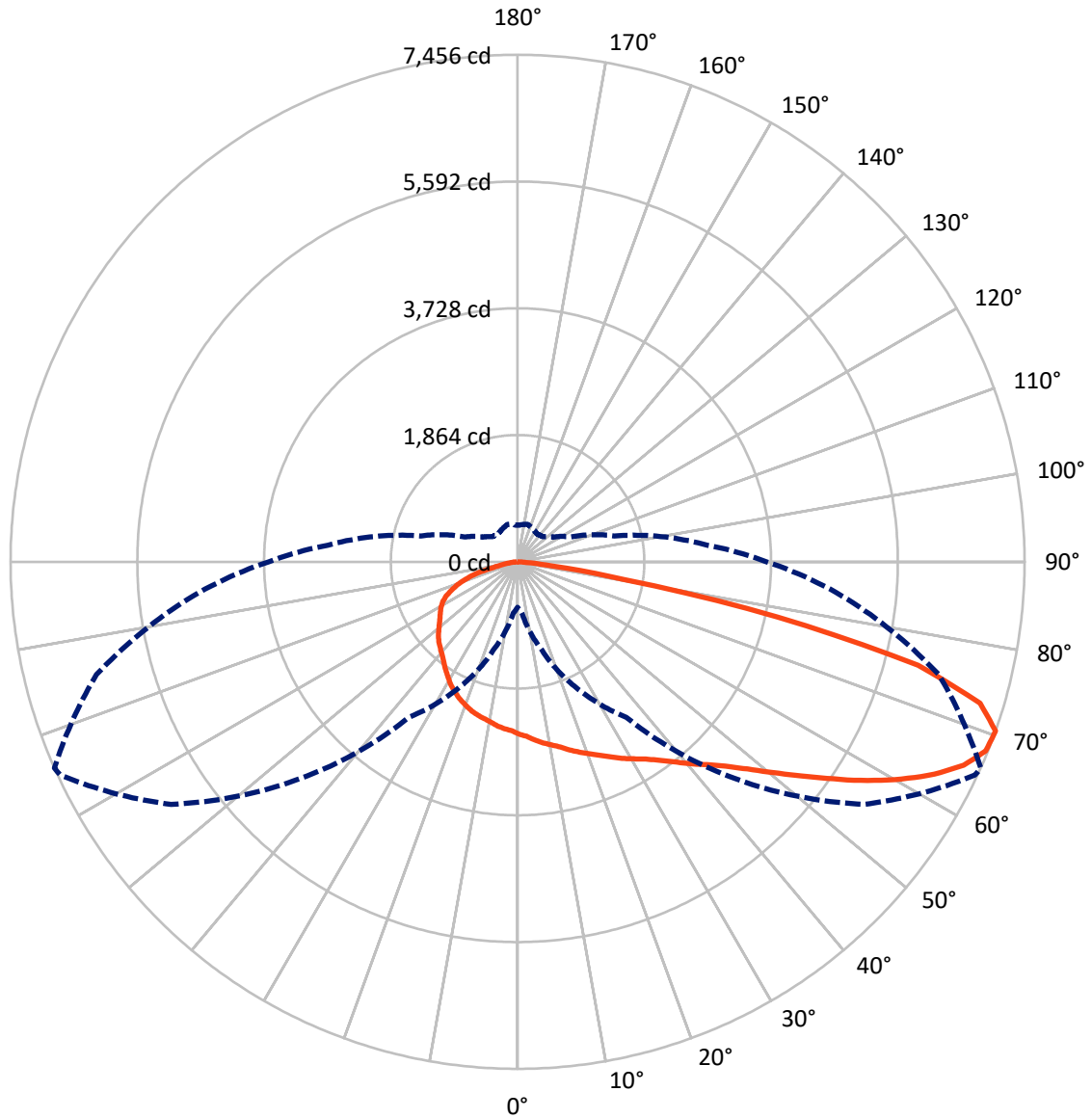
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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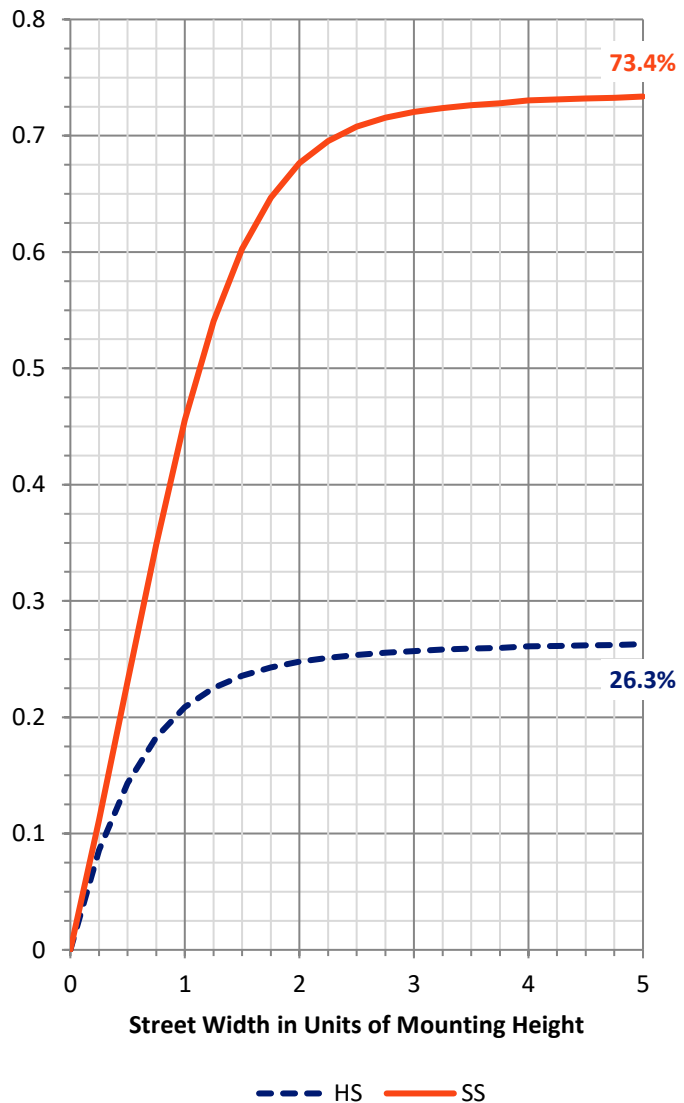
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3720.8 | 0.0 | 3720.8 |
| | % Fixture | 26.5 | 0.0 | 26.5 |
| Street Side | Lumens | 10321.2 | 0.0 | 10321.2 |
| | % Fixture | 73.5 | 0.0 | 73.5 |
| Total | Lumens | 14042.0 | 0.0 | 14042.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.5 | 1.7 |
| 10°-20° | 730.5 | 5.2 |
| 20°-30° | 1224.5 | 8.7 |
| 30°-40° | 1833.5 | 13.1 |
| 40°-50° | 2451.3 | 17.5 |
| 50°-60° | 2862.0 | 20.4 |
| 60°-70° | 2845.9 | 20.3 |
| 70°-80° | 1684.8 | 12.0 |
| 80°-90° | 166.1 | 1.2 |
| 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° | 14042.0 | 100.0 |
| 0°-180° | 14042.0 | 100.0 |

Coefficient of Utilization

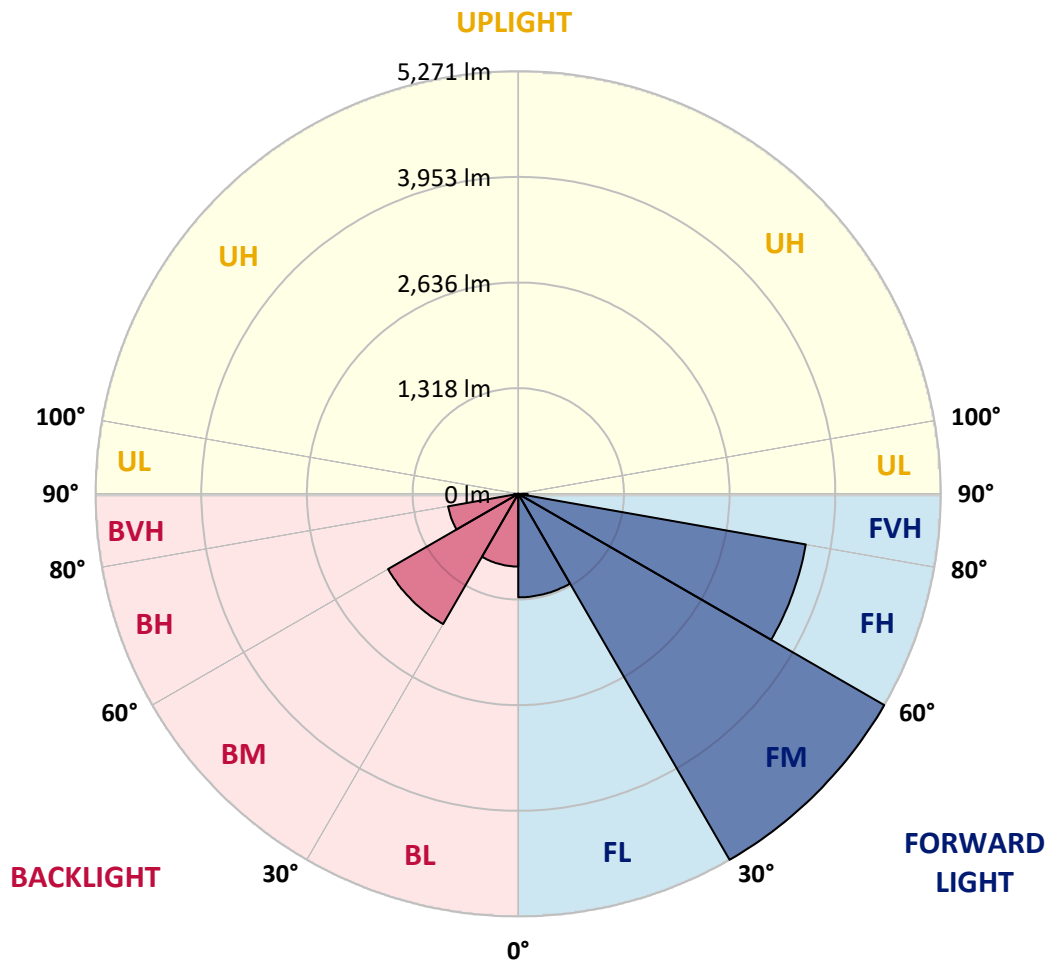


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1291.5 | 9.2 | | | |
| FM (30°-60°) | 5271.2 | 37.5 | | | |
| FH (60°-80°) | 3641.8 | 25.9 | | | G2/5000 |
| FVH (80°-90°) | 116.7 | 0.8 | | | G2/225 |
| BL (0°-30°) | 907.0 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 1875.7 | 13.4 | B2/2500 | | |
| BH (60°-80°) | 888.8 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 49.4 | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 |
| 2.5° | 2627.4 | 2623.3 | 2621.2 | 2612.9 | 2594.3 | 2602.6 | 2584.0 | 2571.5 | 2569.5 | 2540.5 | 2523.9 |
| 5° | 2735.1 | 2733.0 | 2728.9 | 2716.5 | 2687.5 | 2691.6 | 2660.6 | 2637.8 | 2631.6 | 2586.0 | 2550.8 |
| 7.5° | 2826.2 | 2822.1 | 2820.0 | 2803.4 | 2772.4 | 2770.3 | 2733.0 | 2699.9 | 2689.5 | 2627.4 | 2573.6 |
| 10° | 2896.6 | 2890.4 | 2894.5 | 2878.0 | 2844.8 | 2838.6 | 2791.0 | 2747.5 | 2737.2 | 2658.5 | 2584.0 |
| 12.5° | 2956.6 | 2952.5 | 2958.7 | 2944.2 | 2917.3 | 2911.1 | 2863.5 | 2807.6 | 2795.1 | 2704.0 | 2606.7 |
| 15° | 3022.9 | 3008.4 | 3020.8 | 3014.6 | 2996.0 | 2993.9 | 2950.4 | 2888.3 | 2871.7 | 2762.0 | 2641.9 |
| 17.5° | 3058.1 | 3049.8 | 3064.3 | 3066.4 | 3058.1 | 3072.6 | 3031.2 | 2956.6 | 2942.1 | 2815.8 | 2673.0 |
| 20° | 3082.9 | 3070.5 | 3087.1 | 3099.5 | 3105.7 | 3134.7 | 3101.6 | 3029.1 | 3012.5 | 2867.6 | 2702.0 |
| 22.5° | 3167.8 | 3140.9 | 3143.0 | 3151.3 | 3155.4 | 3196.8 | 3176.1 | 3105.7 | 3089.1 | 2931.8 | 2737.2 |
| 25° | 3381.1 | 3327.3 | 3292.1 | 3267.2 | 3238.2 | 3273.4 | 3261.0 | 3192.7 | 3178.2 | 3008.4 | 2780.6 |
| 27.5° | 3712.4 | 3644.0 | 3573.6 | 3501.2 | 3387.3 | 3372.8 | 3352.1 | 3290.0 | 3273.4 | 3085.0 | 2824.1 |
| 30° | 4089.2 | 4020.9 | 3938.0 | 3822.1 | 3608.8 | 3497.0 | 3449.4 | 3381.1 | 3362.5 | 3153.3 | 2865.5 |
| 32.5° | 4463.9 | 4403.9 | 4321.1 | 4180.3 | 3875.9 | 3648.2 | 3546.7 | 3476.3 | 3457.7 | 3227.9 | 2915.2 |
| 35° | 4755.9 | 4718.6 | 4664.8 | 4488.8 | 4140.9 | 3826.2 | 3687.5 | 3602.6 | 3581.9 | 3345.9 | 3006.3 |
| 37.5° | 4991.9 | 4965.0 | 4919.4 | 4735.2 | 4333.5 | 4004.3 | 3849.0 | 3751.7 | 3728.9 | 3474.3 | 3103.6 |
| 40° | 5339.8 | 5269.4 | 5232.1 | 4965.0 | 4501.2 | 4165.8 | 4031.2 | 3929.8 | 3904.9 | 3610.9 | 3182.3 |
| 42.5° | 5635.8 | 5584.1 | 5538.5 | 5170.0 | 4660.6 | 4304.5 | 4203.1 | 4109.9 | 4076.8 | 3745.5 | 3267.2 |
| 45° | 5685.5 | 5706.2 | 5683.5 | 5271.4 | 4913.2 | 4441.2 | 4377.0 | 4316.9 | 4285.9 | 3927.7 | 3395.6 |
| 47.5° | 5687.6 | 5687.6 | 5553.0 | 5329.4 | 5225.9 | 4594.4 | 4563.3 | 4584.0 | 4550.9 | 4159.6 | 3548.8 |
| 50° | 5538.5 | 5565.4 | 5495.0 | 5343.9 | 5308.7 | 4747.6 | 4791.1 | 4902.9 | 4869.8 | 4406.0 | 3714.4 |
| 52.5° | 5230.0 | 5319.0 | 5317.0 | 5321.1 | 5188.6 | 4878.0 | 5031.3 | 5285.9 | 5230.0 | 4683.4 | 3890.4 |
| 55° | 4685.5 | 4863.5 | 5023.0 | 5159.6 | 5085.1 | 4956.7 | 5325.3 | 5693.8 | 5635.8 | 4994.0 | 4068.5 |
| 57.5° | 4219.6 | 4333.5 | 4532.3 | 4919.4 | 4962.9 | 5025.0 | 5600.6 | 6120.3 | 6068.6 | 5337.7 | 4254.8 |
| 60° | 3687.5 | 3844.9 | 4043.6 | 4594.4 | 4813.9 | 5114.1 | 5902.9 | 6536.5 | 6486.8 | 5685.5 | 4435.0 |
| 62.5° | 2869.7 | 3072.6 | 3470.1 | 4095.4 | 4596.5 | 5170.0 | 6141.0 | 6903.0 | 6880.2 | 6014.7 | 4596.5 |
| 65° | 2000.1 | 2180.2 | 2737.2 | 3482.5 | 4250.7 | 5145.1 | 6331.5 | 7230.1 | 7209.4 | 6283.9 | 4710.3 |
| 67.5° | 1167.7 | 1376.9 | 2006.3 | 2803.4 | 3639.9 | 4973.3 | 6393.6 | 7422.7 | 7422.7 | 6447.5 | 4741.4 |
| 70° | 666.7 | 764.0 | 1323.0 | 2043.6 | 2791.0 | 4499.1 | 6219.7 | 7420.6 | 7455.8 | 6410.2 | 4613.0 |
| 72.5° | 465.9 | 509.3 | 890.3 | 1374.8 | 1892.4 | 3639.9 | 5764.2 | 7062.4 | 7110.0 | 6058.2 | 4174.1 |
| 75° | 362.3 | 393.4 | 627.4 | 937.9 | 1192.6 | 2472.1 | 4768.3 | 5954.7 | 6081.0 | 5163.8 | 3374.9 |
| 77.5° | 275.4 | 298.1 | 366.5 | 585.9 | 764.0 | 1420.3 | 3147.1 | 3904.9 | 3913.2 | 3161.6 | 1809.6 |
| 80° | 200.8 | 223.6 | 244.3 | 358.2 | 405.8 | 664.6 | 1188.5 | 1631.5 | 1586.0 | 1530.1 | 979.3 |
| 82.5° | 120.1 | 142.9 | 149.1 | 194.6 | 198.8 | 283.7 | 416.2 | 525.9 | 505.2 | 672.9 | 459.6 |
| 85° | 51.8 | 72.5 | 76.6 | 89.0 | 84.9 | 115.9 | 165.6 | 138.7 | 124.2 | 142.9 | 99.4 |
| 87.5° | 12.4 | 20.7 | 20.7 | 22.8 | 18.6 | 29.0 | 31.1 | 22.8 | 20.7 | 24.8 | 24.8 |
| 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° | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 | 2534.3 |
| 2.5° | 2519.8 | 2513.6 | 2515.6 | 2480.4 | 2470.1 | 2459.7 | 2453.5 | 2449.4 | 2445.2 | 2451.4 | 2457.7 |
| 5° | 2538.4 | 2523.9 | 2507.3 | 2455.6 | 2434.9 | 2412.1 | 2395.5 | 2381.0 | 2374.8 | 2374.8 | 2381.0 |
| 7.5° | 2552.9 | 2528.0 | 2492.9 | 2424.5 | 2387.3 | 2356.2 | 2329.3 | 2310.6 | 2300.3 | 2300.3 | 2306.5 |
| 10° | 2555.0 | 2519.8 | 2463.9 | 2381.0 | 2331.4 | 2285.8 | 2254.7 | 2234.0 | 2219.5 | 2219.5 | 2223.7 |
| 12.5° | 2567.4 | 2519.8 | 2447.3 | 2347.9 | 2285.8 | 2229.9 | 2192.6 | 2161.6 | 2155.4 | 2155.4 | 2159.5 |
| 15° | 2588.1 | 2530.1 | 2436.9 | 2318.9 | 2244.4 | 2180.2 | 2138.8 | 2105.7 | 2093.3 | 2101.5 | 2103.6 |
| 17.5° | 2606.7 | 2536.3 | 2418.3 | 2281.7 | 2192.6 | 2122.2 | 2076.7 | 2047.7 | 2031.1 | 2049.8 | 2049.8 |
| 20° | 2619.2 | 2536.3 | 2391.4 | 2234.0 | 2136.7 | 2058.1 | 2014.6 | 1979.4 | 1967.0 | 1989.7 | 1991.8 |
| 22.5° | 2637.8 | 2534.3 | 2362.4 | 2186.4 | 2076.7 | 1993.9 | 1950.4 | 1923.5 | 1917.3 | 1942.1 | 1950.4 |
| 25° | 2658.5 | 2538.4 | 2331.4 | 2132.6 | 2010.4 | 1929.7 | 1896.6 | 1884.1 | 1888.3 | 1919.3 | 1929.7 |
| 27.5° | 2681.3 | 2546.7 | 2300.3 | 2072.5 | 1938.0 | 1865.5 | 1846.9 | 1853.1 | 1869.6 | 1909.0 | 1921.4 |
| 30° | 2702.0 | 2548.8 | 2256.8 | 2002.1 | 1855.1 | 1786.8 | 1795.1 | 1822.0 | 1846.9 | 1886.2 | 1900.7 |
| 32.5° | 2728.9 | 2550.8 | 2211.3 | 1925.5 | 1766.1 | 1716.4 | 1753.7 | 1797.2 | 1822.0 | 1859.3 | 1875.9 |
| 35° | 2795.1 | 2586.0 | 2176.1 | 1851.0 | 1683.3 | 1656.4 | 1718.5 | 1774.4 | 1788.9 | 1822.0 | 1836.5 |
| 37.5° | 2871.7 | 2644.0 | 2157.4 | 1774.4 | 1602.5 | 1596.3 | 1675.0 | 1730.9 | 1735.1 | 1755.8 | 1770.3 |
| 40° | 2919.4 | 2668.8 | 2136.7 | 1710.2 | 1530.1 | 1534.2 | 1615.0 | 1658.5 | 1650.2 | 1664.7 | 1675.0 |
| 42.5° | 2967.0 | 2677.1 | 2093.3 | 1656.4 | 1461.8 | 1465.9 | 1528.0 | 1559.1 | 1563.2 | 1594.3 | 1608.8 |
| 45° | 3047.7 | 2699.9 | 2045.6 | 1606.7 | 1399.6 | 1385.1 | 1422.4 | 1463.8 | 1517.7 | 1577.7 | 1594.3 |
| 47.5° | 3155.4 | 2747.5 | 1995.9 | 1546.6 | 1339.6 | 1292.0 | 1306.5 | 1378.9 | 1434.8 | 1490.7 | 1501.1 |
| 50° | 3265.1 | 2795.1 | 1950.4 | 1474.2 | 1279.6 | 1192.6 | 1198.8 | 1265.1 | 1310.6 | 1354.1 | 1360.3 |
| 52.5° | 3372.8 | 2836.6 | 1911.0 | 1405.9 | 1211.2 | 1074.6 | 1099.4 | 1167.7 | 1198.8 | 1219.5 | 1225.7 |
| 55° | 3480.5 | 2871.7 | 1875.9 | 1347.9 | 1132.5 | 981.4 | 1004.2 | 1068.4 | 1099.4 | 1109.8 | 1113.9 |
| 57.5° | 3592.3 | 2913.2 | 1848.9 | 1298.2 | 1043.5 | 898.6 | 913.1 | 958.6 | 987.6 | 1000.0 | 995.9 |
| 60° | 3685.4 | 2948.4 | 1834.4 | 1246.4 | 954.5 | 822.0 | 817.8 | 859.2 | 900.7 | 913.1 | 908.9 |
| 62.5° | 3757.9 | 2971.1 | 1811.7 | 1180.2 | 875.8 | 745.4 | 724.7 | 778.5 | 822.0 | 830.3 | 836.5 |
| 65° | 3797.3 | 2973.2 | 1755.8 | 1095.3 | 795.1 | 662.6 | 648.1 | 701.9 | 728.8 | 737.1 | 737.1 |
| 67.5° | 3791.0 | 2940.1 | 1646.0 | 981.4 | 720.5 | 588.0 | 575.6 | 608.7 | 648.1 | 654.3 | 648.1 |
| 70° | 3662.7 | 2803.4 | 1470.0 | 861.3 | 631.5 | 521.8 | 499.0 | 532.1 | 569.4 | 546.6 | 536.3 |
| 72.5° | 3298.3 | 2449.4 | 1211.2 | 728.8 | 532.1 | 438.9 | 428.6 | 461.7 | 463.8 | 467.9 | 457.6 |
| 75° | 2602.6 | 1824.1 | 906.9 | 567.3 | 430.7 | 368.5 | 366.5 | 360.3 | 368.5 | 385.1 | 372.7 |
| 77.5° | 1366.5 | 911.0 | 490.7 | 347.8 | 312.6 | 296.1 | 281.6 | 279.5 | 304.4 | 314.7 | 302.3 |
| 80° | 741.2 | 511.4 | 281.6 | 209.1 | 190.5 | 192.6 | 211.2 | 207.0 | 234.0 | 240.2 | 229.8 |
| 82.5° | 323.0 | 242.2 | 138.7 | 126.3 | 126.3 | 124.2 | 130.4 | 144.9 | 173.9 | 173.9 | 138.7 |
| 85° | 70.4 | 60.0 | 53.8 | 62.1 | 70.4 | 70.4 | 70.4 | 70.4 | 49.7 | 26.9 | 18.6 |
| 87.5° | 22.8 | 22.8 | 22.8 | 24.8 | 26.9 | 26.9 | 22.8 | 16.6 | 10.4 | 2.1 | 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)