

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: P1210887

Luminaire Tested: **ARCH4-100-740-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-100-740-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17838 lumens  
Efficiency: N/A  
Efficacy: 173.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 103.1  
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

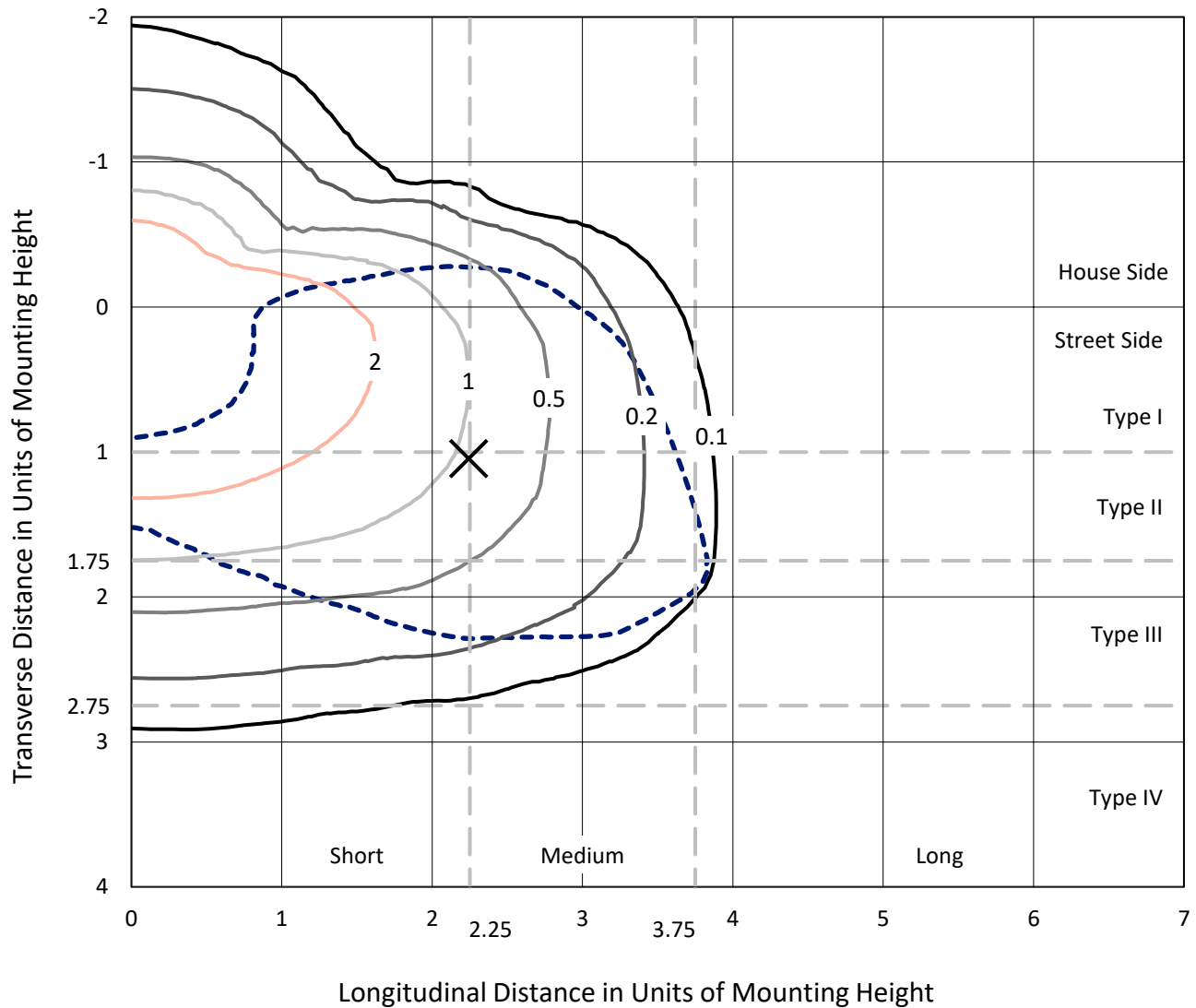


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

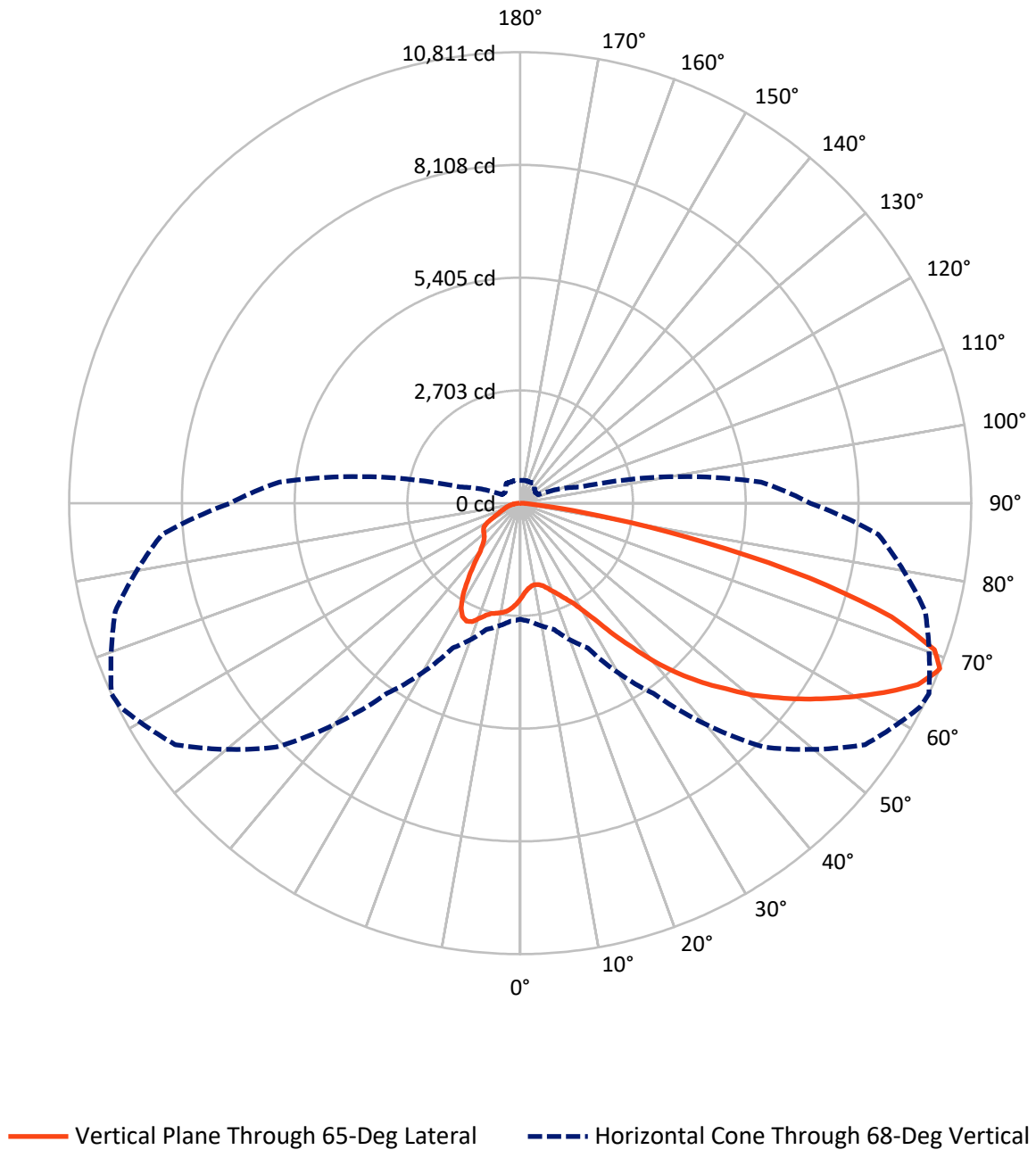


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4373.3   | 0.0    | 4373.3  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 13464.6  | 0.0    | 13464.6 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 17838.0  | 0.0    | 17838.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 217.9   | 1.2       |
| 10°-20°   | 709.3   | 4.0       |
| 20°-30°   | 1283.8  | 7.2       |
| 30°-40°   | 2019.6  | 11.3      |
| 40°-50°   | 3007.9  | 16.9      |
| 50°-60°   | 3945.8  | 22.1      |
| 60°-70°   | 4314.9  | 24.2      |
| 70°-80°   | 2135.1  | 12.0      |
| 80°-90°   | 203.7   | 1.1       |
| 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°    | 17838.0 | 100.0     |
| 0°-180°   | 17838.0 | 100.0     |

**Coefficient of Utilization**



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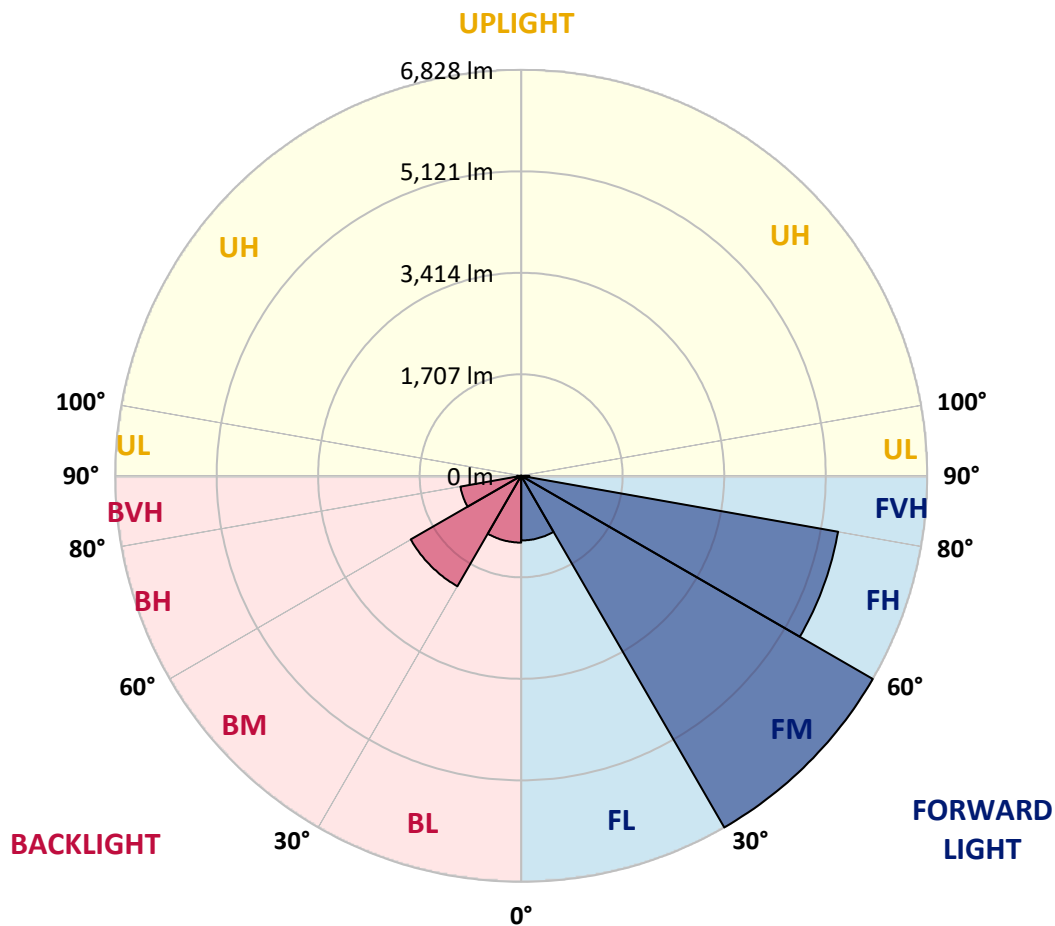
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1087.4 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 6828.1 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 5412.1 | 30.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 137.0  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1123.5 | 6.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2145.1 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1038.0 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 66.7   | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 63°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5  | 2279.5  | 2279.5  | 2279.5  | 2279.5 |
| 2.5°  | 1989.7 | 1985.1 | 1996.6 | 2008.1 | 2033.4 | 2063.3 | 2104.7  | 2139.2  | 2143.8  | 2208.2  | 2258.8 |
| 5°    | 1872.3 | 1865.4 | 1876.9 | 1890.7 | 1902.2 | 1939.1 | 1982.8  | 2033.4  | 2054.1  | 2148.4  | 2256.5 |
| 7.5°  | 1883.8 | 1881.5 | 1886.1 | 1881.5 | 1881.5 | 1897.6 | 1927.6  | 1978.2  | 2001.2  | 2113.9  | 2268.0 |
| 10°   | 1950.6 | 1955.2 | 1957.5 | 1943.7 | 1929.9 | 1923.0 | 1932.2  | 1966.7  | 1982.8  | 2116.2  | 2318.6 |
| 12.5° | 2061.0 | 2067.9 | 2070.2 | 2044.9 | 2026.5 | 1996.6 | 1980.5  | 1994.3  | 2005.8  | 2139.2  | 2389.9 |
| 15°   | 2210.5 | 2215.1 | 2199.0 | 2182.9 | 2136.9 | 2100.1 | 2061.0  | 2049.5  | 2054.1  | 2187.5  | 2470.4 |
| 17.5° | 2385.3 | 2378.4 | 2378.4 | 2339.3 | 2279.5 | 2222.0 | 2157.6  | 2148.4  | 2148.4  | 2265.7  | 2585.4 |
| 20°   | 2576.2 | 2583.1 | 2562.4 | 2509.5 | 2449.7 | 2360.0 | 2295.6  | 2254.2  | 2258.8  | 2355.4  | 2725.7 |
| 22.5° | 2852.2 | 2863.7 | 2808.5 | 2732.6 | 2640.6 | 2537.1 | 2445.1  | 2378.4  | 2380.7  | 2472.7  | 2870.6 |
| 25°   | 3148.9 | 3153.5 | 3119.0 | 3017.8 | 2893.6 | 2746.4 | 2624.5  | 2539.4  | 2537.1  | 2603.8  | 3056.9 |
| 27.5° | 3452.6 | 3473.3 | 3404.3 | 3307.7 | 3192.7 | 3008.6 | 2847.6  | 2732.6  | 2714.2  | 2803.9  | 3289.3 |
| 30°   | 3765.4 | 3790.7 | 3724.0 | 3629.7 | 3487.1 | 3330.7 | 3139.7  | 3006.3  | 2994.8  | 3114.4  | 3599.8 |
| 32.5° | 4080.5 | 4087.4 | 4034.5 | 3956.3 | 3827.5 | 3680.3 | 3526.2  | 3379.0  | 3367.5  | 3563.0  | 4002.3 |
| 35°   | 4338.1 | 4358.8 | 4322.0 | 4303.6 | 4209.3 | 4073.6 | 3924.1  | 3839.0  | 3868.9  | 4119.6  | 4524.5 |
| 37.5° | 4648.7 | 4669.4 | 4628.0 | 4623.4 | 4593.5 | 4476.2 | 4372.6  | 4379.5  | 4409.4  | 4749.9  | 5074.2 |
| 40°   | 5097.2 | 5120.2 | 5014.4 | 4968.4 | 4968.4 | 4853.4 | 4818.9  | 4982.2  | 5021.3  | 5370.9  | 5646.9 |
| 42.5° | 5476.7 | 5513.5 | 5451.4 | 5421.5 | 5331.8 | 5251.3 | 5292.7  | 5522.7  | 5589.4  | 5964.4  | 6146.1 |
| 45°   | 5660.7 | 5688.3 | 5762.0 | 5849.4 | 5762.0 | 5621.6 | 5778.1  | 6038.0  | 6132.3  | 6511.8  | 6645.2 |
| 47.5° | 5759.7 | 5785.0 | 5870.1 | 6104.7 | 6164.5 | 6047.2 | 6268.0  | 6592.3  | 6656.7  | 7054.7  | 7121.4 |
| 50°   | 5773.5 | 5854.0 | 5964.4 | 6199.0 | 6472.7 | 6488.8 | 6760.2  | 7155.9  | 7231.8  | 7588.3  | 7540.0 |
| 52.5° | 5660.7 | 5692.9 | 5920.7 | 6316.3 | 6619.9 | 6895.9 | 7296.2  | 7696.4  | 7751.6  | 8089.7  | 7910.3 |
| 55°   | 5476.7 | 5522.7 | 5750.5 | 6288.7 | 6762.5 | 7282.4 | 7841.3  | 8227.7  | 8289.9  | 8577.4  | 8253.0 |
| 57.5° | 5311.1 | 5334.1 | 5577.9 | 6208.2 | 6905.1 | 7668.8 | 8326.7  | 8782.1  | 8823.5  | 9005.2  | 8506.1 |
| 60°   | 5127.1 | 5152.4 | 5396.2 | 6035.7 | 7011.0 | 7960.9 | 8832.7  | 9341.0  | 9377.8  | 9456.0  | 8800.5 |
| 62.5° | 4651.0 | 4717.7 | 5023.6 | 5750.5 | 6983.3 | 8294.5 | 9373.2  | 9893.1  | 9939.1  | 9854.0  | 9032.8 |
| 65°   | 3776.9 | 3871.2 | 4246.1 | 5104.1 | 6725.7 | 8510.7 | 9814.9  | 10401.4 | 10479.6 | 10153.0 | 9094.9 |
| 67.5° | 2932.7 | 2999.4 | 3300.8 | 4050.6 | 5821.8 | 8402.6 | 10100.1 | 10751.0 | 10774.0 | 10104.7 | 8749.9 |
| 68°   | 2780.9 | 2847.6 | 3135.1 | 3829.8 | 5571.0 | 8273.8 | 10093.2 | 10760.2 | 10810.9 | 10051.8 | 8616.5 |
| 70°   | 2127.7 | 2203.6 | 2477.3 | 3033.9 | 4490.0 | 7454.9 | 9672.3  | 10539.4 | 10532.5 | 9412.3  | 7788.4 |
| 72.5° | 1329.5 | 1373.2 | 1561.8 | 1913.8 | 2969.5 | 5672.2 | 8209.3  | 9295.0  | 9313.4  | 7673.4  | 5973.6 |
| 75°   | 844.2  | 844.2  | 835.0  | 927.0  | 1522.7 | 3231.8 | 6102.4  | 7155.9  | 7169.7  | 5373.2  | 3765.4 |
| 77.5° | 733.8  | 713.1  | 614.1  | 519.8  | 607.2  | 1255.9 | 3611.3  | 4621.1  | 4545.2  | 2893.6  | 1787.2 |
| 80°   | 618.7  | 584.2  | 503.7  | 418.6  | 391.0  | 393.3  | 1387.0  | 2346.2  | 2245.0  | 1042.0  | 593.4  |
| 82.5° | 446.2  | 416.3  | 379.5  | 328.9  | 301.3  | 234.6  | 289.8   | 678.6   | 662.5   | 301.3   | 193.2  |
| 85°   | 241.5  | 218.5  | 213.9  | 216.2  | 181.7  | 144.9  | 121.9   | 149.5   | 149.5   | 131.1   | 110.4  |
| 87.5° | 85.1   | 62.1   | 73.6   | 82.8   | 71.3   | 59.8   | 48.3    | 57.5    | 59.8    | 57.5    | 52.9   |
| 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°    | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 | 2279.5 |
| 2.5°  | 2288.7 | 2311.7 | 2366.9 | 2415.2 | 2449.7 | 2479.6 | 2495.7 | 2502.6 | 2518.7 | 2521.0 | 2516.4 |
| 5°    | 2307.1 | 2366.9 | 2449.7 | 2521.0 | 2560.1 | 2576.2 | 2580.8 | 2583.1 | 2576.2 | 2580.8 | 2576.2 |
| 7.5°  | 2355.4 | 2431.3 | 2548.6 | 2610.7 | 2617.6 | 2592.3 | 2594.6 | 2585.4 | 2594.6 | 2603.8 | 2603.8 |
| 10°   | 2429.0 | 2525.6 | 2636.0 | 2659.0 | 2629.1 | 2615.3 | 2642.9 | 2698.1 | 2716.5 | 2741.8 | 2741.8 |
| 12.5° | 2525.6 | 2640.6 | 2718.8 | 2698.1 | 2670.5 | 2716.5 | 2797.0 | 2852.2 | 2870.6 | 2879.8 | 2872.9 |
| 15°   | 2636.0 | 2760.2 | 2799.3 | 2730.3 | 2780.9 | 2879.8 | 2907.4 | 2875.2 | 2829.2 | 2808.5 | 2820.0 |
| 17.5° | 2776.3 | 2879.8 | 2856.8 | 2810.8 | 2925.8 | 2939.6 | 2849.9 | 2746.4 | 2672.8 | 2645.2 | 2663.6 |
| 20°   | 2923.5 | 3013.2 | 2907.4 | 2928.1 | 2999.4 | 2852.2 | 2682.0 | 2548.6 | 2484.2 | 2472.7 | 2491.1 |
| 22.5° | 3079.9 | 3137.4 | 2958.0 | 3063.8 | 2958.0 | 2659.0 | 2454.3 | 2385.3 | 2369.2 | 2387.6 | 2403.7 |
| 25°   | 3257.1 | 3250.2 | 3045.4 | 3105.2 | 2803.9 | 2422.1 | 2300.2 | 2295.6 | 2295.6 | 2307.1 | 2330.1 |
| 27.5° | 3457.2 | 3349.1 | 3132.8 | 3050.0 | 2537.1 | 2226.6 | 2203.6 | 2205.9 | 2199.0 | 2201.3 | 2212.8 |
| 30°   | 3689.5 | 3482.5 | 3229.5 | 2868.3 | 2238.1 | 2079.4 | 2070.2 | 2063.3 | 2047.2 | 2042.6 | 2047.2 |
| 32.5° | 3981.6 | 3622.8 | 3328.4 | 2569.3 | 1975.9 | 1927.6 | 1923.0 | 1886.1 | 1847.0 | 1842.4 | 1858.5 |
| 35°   | 4351.9 | 3878.1 | 3379.0 | 2194.4 | 1759.6 | 1757.3 | 1741.2 | 1683.7 | 1633.1 | 1633.1 | 1621.6 |
| 37.5° | 4775.2 | 4207.0 | 3399.7 | 1828.6 | 1580.2 | 1591.7 | 1545.7 | 1472.1 | 1433.0 | 1410.0 | 1416.9 |
| 40°   | 5207.6 | 4582.0 | 3397.4 | 1508.9 | 1423.8 | 1426.1 | 1391.6 | 1301.9 | 1205.3 | 1147.8 | 1161.6 |
| 42.5° | 5623.9 | 4922.4 | 3337.6 | 1338.7 | 1297.3 | 1290.4 | 1262.8 | 1140.9 | 1060.4 | 1014.4 | 1016.7 |
| 45°   | 5957.5 | 5274.3 | 3245.6 | 1237.5 | 1182.3 | 1193.8 | 1131.7 | 1058.1 | 984.5  | 943.1  | 940.8  |
| 47.5° | 6291.0 | 5541.1 | 3098.3 | 1175.4 | 1097.2 | 1076.5 | 1051.2 | 1000.6 | 945.4  | 899.4  | 901.7  |
| 50°   | 6594.6 | 5768.9 | 2960.3 | 1134.0 | 1019.0 | 966.1  | 970.7  | 940.8  | 892.5  | 851.1  | 848.8  |
| 52.5° | 6808.5 | 5918.4 | 2884.4 | 1111.0 | 924.7  | 867.2  | 883.3  | 867.2  | 821.2  | 791.3  | 789.0  |
| 55°   | 7022.5 | 6033.4 | 2909.7 | 1081.1 | 821.2  | 775.2  | 802.8  | 798.2  | 772.9  | 763.7  | 766.0  |
| 57.5° | 7195.0 | 6120.8 | 2999.4 | 1025.9 | 722.3  | 694.7  | 740.7  | 726.9  | 708.5  | 710.8  | 710.8  |
| 60°   | 7362.9 | 6233.5 | 3105.2 | 899.4  | 637.2  | 639.5  | 683.2  | 657.9  | 646.4  | 667.1  | 669.4  |
| 62.5° | 7537.7 | 6355.4 | 3017.8 | 715.4  | 563.5  | 579.6  | 630.2  | 609.5  | 614.1  | 644.1  | 653.3  |
| 65°   | 7517.0 | 6343.9 | 2458.9 | 586.5  | 499.1  | 531.3  | 607.2  | 600.3  | 602.6  | 614.1  | 618.7  |
| 67.5° | 7093.8 | 5939.1 | 1690.6 | 499.1  | 453.1  | 492.2  | 588.8  | 561.2  | 563.5  | 556.6  | 558.9  |
| 68°   | 6951.1 | 5796.5 | 1490.5 | 485.3  | 443.9  | 483.0  | 579.6  | 554.3  | 556.6  | 549.7  | 547.4  |
| 70°   | 6173.7 | 4963.8 | 943.1  | 427.8  | 411.7  | 457.7  | 533.6  | 524.4  | 522.1  | 517.5  | 517.5  |
| 72.5° | 4706.2 | 3664.2 | 496.8  | 370.3  | 374.9  | 418.6  | 476.1  | 494.5  | 483.0  | 485.3  | 499.1  |
| 75°   | 3116.7 | 2203.6 | 345.0  | 317.4  | 328.9  | 358.8  | 423.2  | 460.0  | 448.5  | 455.4  | 448.5  |
| 77.5° | 1649.2 | 1186.9 | 276.0  | 269.1  | 269.1  | 289.8  | 349.6  | 407.1  | 407.1  | 402.5  | 395.6  |
| 80°   | 540.5  | 418.6  | 220.8  | 211.6  | 216.2  | 227.7  | 280.6  | 333.5  | 340.4  | 331.2  | 326.6  |
| 82.5° | 181.7  | 193.2  | 165.6  | 154.1  | 158.7  | 167.9  | 211.6  | 255.3  | 257.6  | 239.2  | 234.6  |
| 85°   | 112.7  | 128.8  | 103.5  | 101.2  | 101.2  | 103.5  | 128.8  | 140.3  | 128.8  | 115.0  | 119.6  |
| 87.5° | 52.9   | 64.4   | 48.3   | 41.4   | 34.5   | 29.9   | 23.0   | 9.2    | 9.2    | 4.6    | 4.6    |
| 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)