

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: P1210431

Luminaire Tested: **ARCH3-120-730-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210431  
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: ARCH3-120-730-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

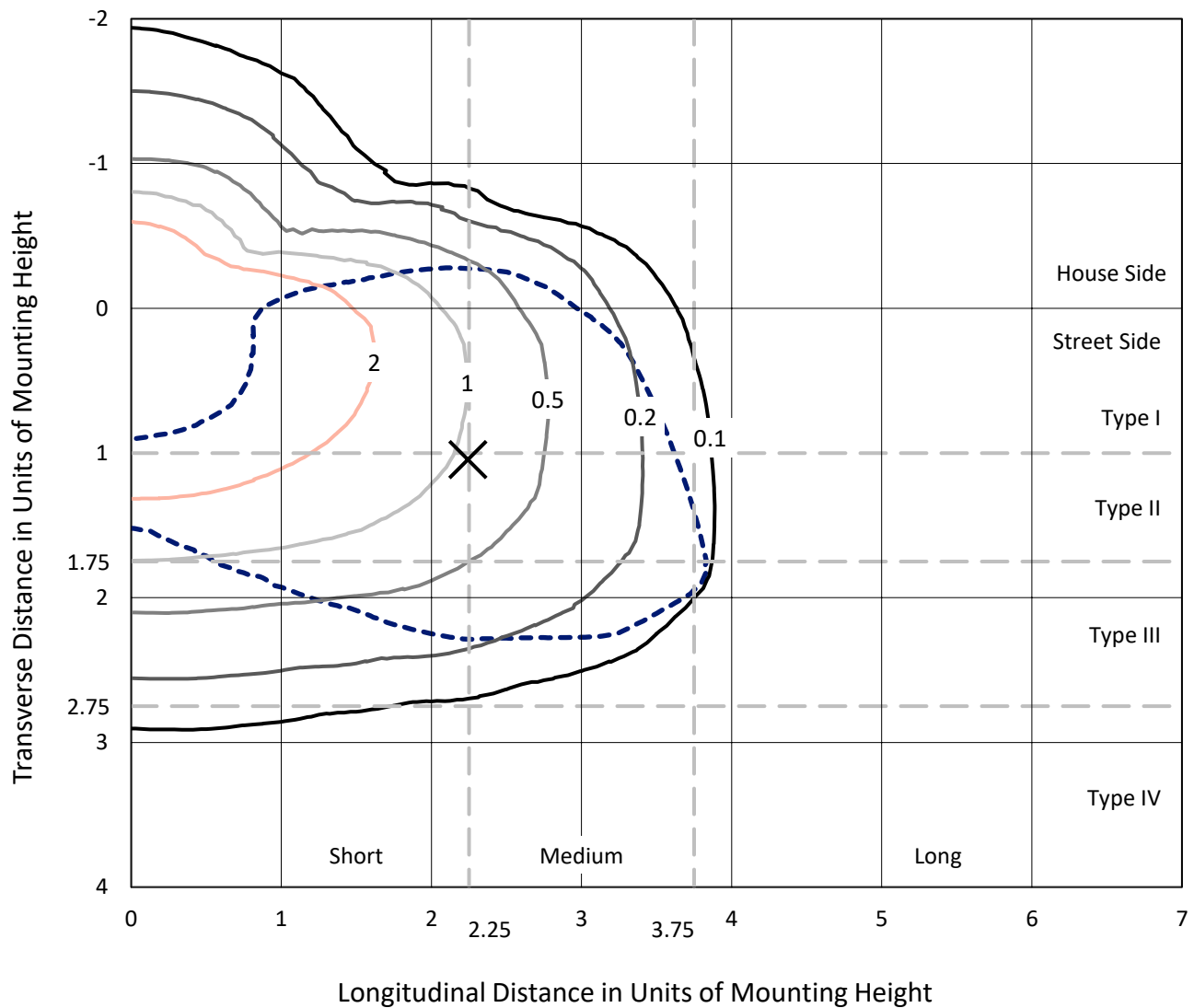
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17767 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 122.7  
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



## Iso-Footcandle Lines of Horizontal Illumination

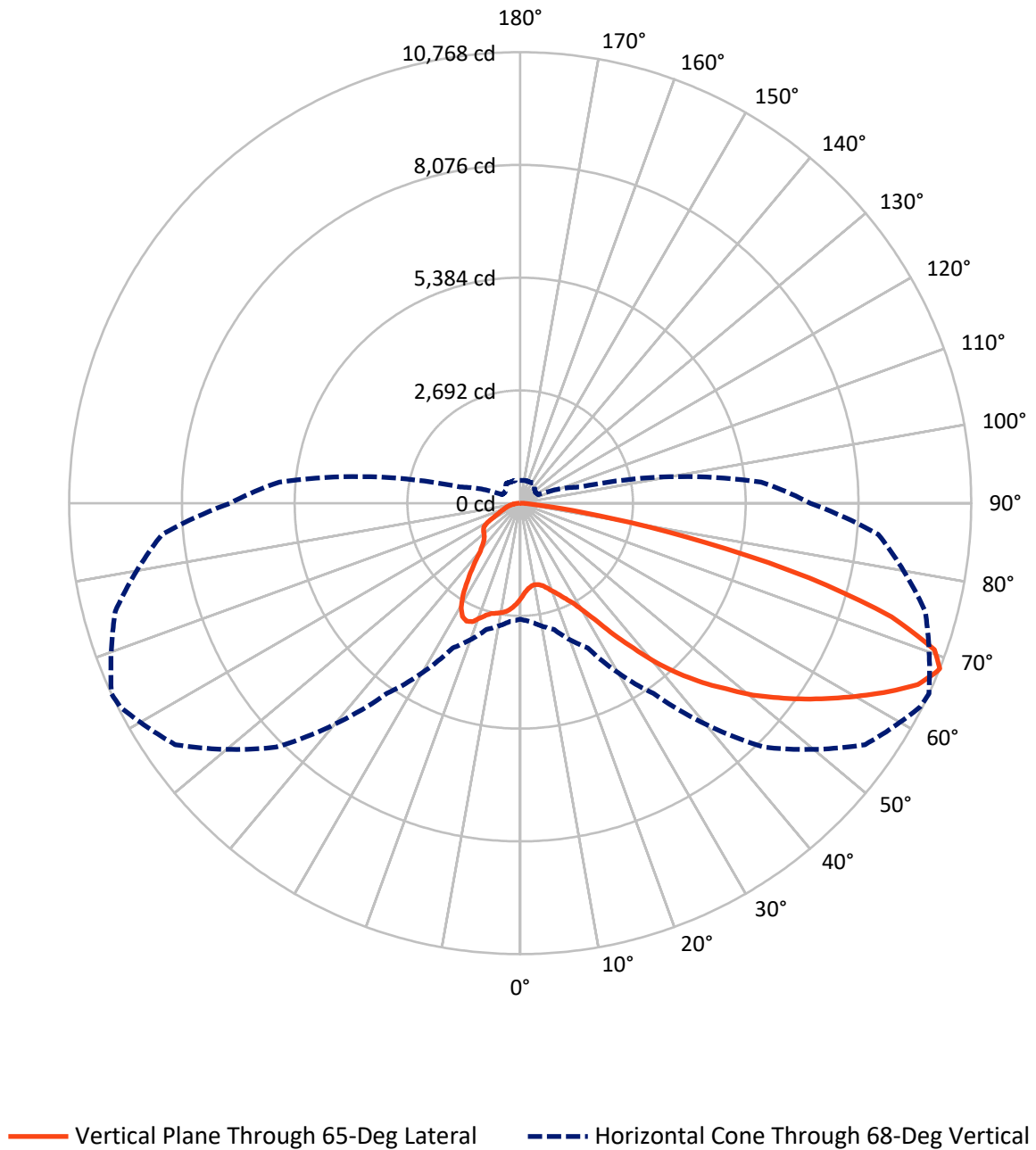
✕ Max cd  
 --- 1/2 Max cd



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    | 4355.9   | 0.0    | 4355.9  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 13411.1  | 0.0    | 13411.1 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 17767.0  | 0.0    | 17767.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 217.0   | 1.2       |
| 10°-20°   | 706.5   | 4.0       |
| 20°-30°   | 1278.7  | 7.2       |
| 30°-40°   | 2011.5  | 11.3      |
| 40°-50°   | 2995.9  | 16.9      |
| 50°-60°   | 3930.1  | 22.1      |
| 60°-70°   | 4297.8  | 24.2      |
| 70°-80°   | 2126.7  | 12.0      |
| 80°-90°   | 202.9   | 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°    | 17767.0 | 100.0     |
| 0°-180°   | 17767.0 | 100.0     |

**Coefficient of Utilization**



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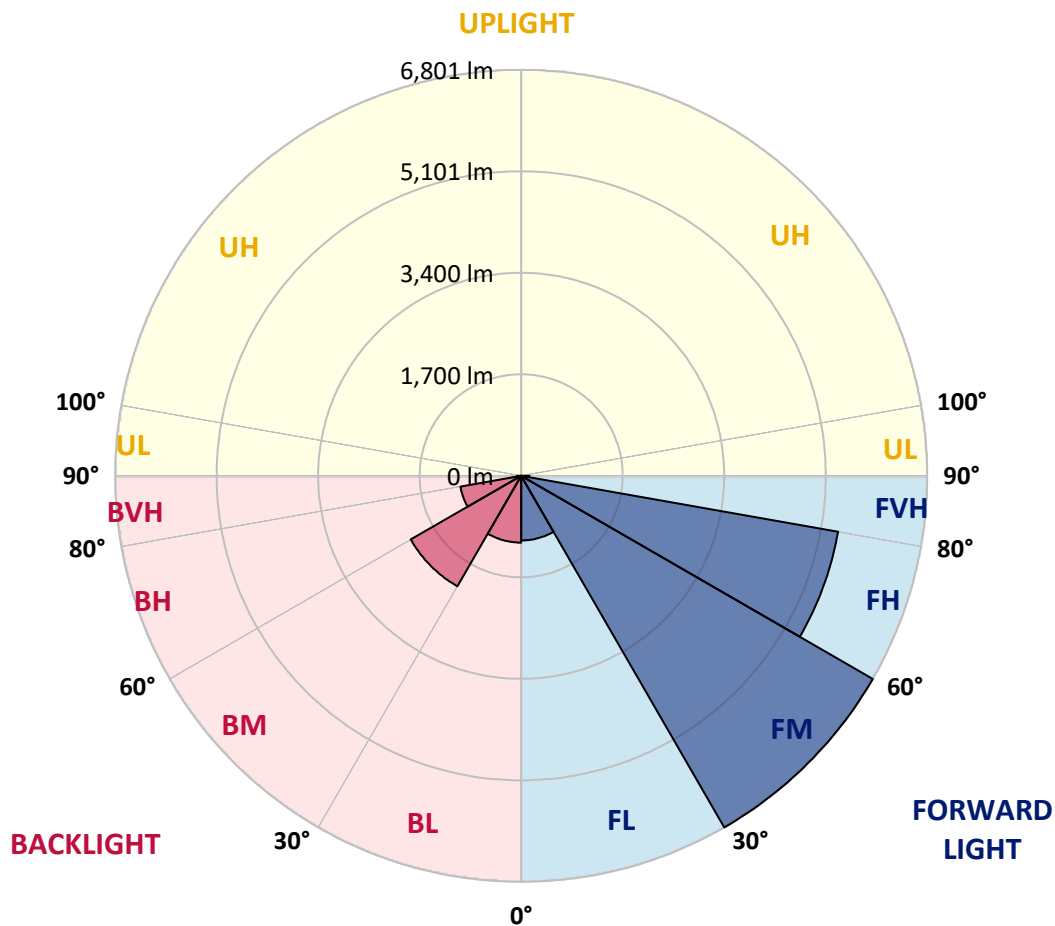
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1083.1 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 6801.0 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 5390.6 | 30.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 136.4  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1119.1 | 6.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2136.6 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1033.9 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 66.4   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: 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°    | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4  | 2270.4  | 2270.4  | 2270.4  | 2270.4 |
| 2.5°  | 1981.7 | 1977.2 | 1988.6 | 2000.1 | 2025.3 | 2055.1 | 2096.3  | 2130.7  | 2135.2  | 2199.4  | 2249.8 |
| 5°    | 1864.9 | 1858.0 | 1869.5 | 1883.2 | 1894.7 | 1931.3 | 1974.9  | 2025.3  | 2045.9  | 2139.8  | 2247.5 |
| 7.5°  | 1876.4 | 1874.1 | 1878.6 | 1874.1 | 1874.1 | 1890.1 | 1919.9  | 1970.3  | 1993.2  | 2105.5  | 2259.0 |
| 10°   | 1942.8 | 1947.4 | 1949.7 | 1935.9 | 1922.2 | 1915.3 | 1924.5  | 1958.8  | 1974.9  | 2107.7  | 2309.4 |
| 12.5° | 2052.8 | 2059.6 | 2061.9 | 2036.7 | 2018.4 | 1988.6 | 1972.6  | 1986.3  | 1997.8  | 2130.7  | 2380.4 |
| 15°   | 2201.7 | 2206.3 | 2190.2 | 2174.2 | 2128.4 | 2091.7 | 2052.8  | 2041.3  | 2045.9  | 2178.8  | 2460.6 |
| 17.5° | 2375.8 | 2368.9 | 2368.9 | 2330.0 | 2270.4 | 2213.1 | 2149.0  | 2139.8  | 2139.8  | 2256.7  | 2575.1 |
| 20°   | 2565.9 | 2572.8 | 2552.2 | 2499.5 | 2439.9 | 2350.6 | 2286.4  | 2245.2  | 2249.8  | 2346.0  | 2714.9 |
| 22.5° | 2840.9 | 2852.3 | 2797.3 | 2721.7 | 2630.1 | 2527.0 | 2435.4  | 2368.9  | 2371.2  | 2462.9  | 2859.2 |
| 25°   | 3136.4 | 3141.0 | 3106.6 | 3005.8 | 2882.1 | 2735.5 | 2614.1  | 2529.3  | 2527.0  | 2593.4  | 3044.8 |
| 27.5° | 3438.8 | 3459.4 | 3390.7 | 3294.5 | 3179.9 | 2996.7 | 2836.3  | 2721.7  | 2703.4  | 2792.8  | 3276.2 |
| 30°   | 3750.4 | 3775.6 | 3709.2 | 3615.2 | 3473.2 | 3317.4 | 3127.3  | 2994.4  | 2982.9  | 3102.0  | 3585.5 |
| 32.5° | 4064.3 | 4071.2 | 4018.5 | 3940.6 | 3812.3 | 3665.6 | 3512.1  | 3365.5  | 3354.1  | 3548.8  | 3986.4 |
| 35°   | 4320.9 | 4341.5 | 4304.8 | 4286.5 | 4192.6 | 4057.4 | 3908.5  | 3823.7  | 3853.5  | 4103.2  | 4506.4 |
| 37.5° | 4630.2 | 4650.8 | 4609.5 | 4605.0 | 4575.2 | 4458.3 | 4355.2  | 4362.1  | 4391.9  | 4731.0  | 5054.0 |
| 40°   | 5076.9 | 5099.8 | 4994.4 | 4948.6 | 4948.6 | 4834.1 | 4799.7  | 4962.4  | 5001.3  | 5349.5  | 5624.5 |
| 42.5° | 5454.9 | 5491.6 | 5429.7 | 5399.9 | 5310.6 | 5230.4 | 5271.7  | 5500.8  | 5567.2  | 5940.6  | 6121.6 |
| 45°   | 5638.2 | 5665.7 | 5739.0 | 5826.1 | 5739.0 | 5599.3 | 5755.1  | 6013.9  | 6107.9  | 6485.9  | 6618.8 |
| 47.5° | 5736.7 | 5761.9 | 5846.7 | 6080.4 | 6139.9 | 6023.1 | 6243.0  | 6566.1  | 6630.2  | 7026.6  | 7093.0 |
| 50°   | 5750.5 | 5830.7 | 5940.6 | 6174.3 | 6446.9 | 6463.0 | 6733.3  | 7127.4  | 7203.0  | 7558.1  | 7510.0 |
| 52.5° | 5638.2 | 5670.3 | 5897.1 | 6291.2 | 6593.6 | 6868.5 | 7267.1  | 7665.8  | 7720.8  | 8057.5  | 7878.8 |
| 55°   | 5454.9 | 5500.8 | 5727.6 | 6263.7 | 6735.6 | 7253.4 | 7810.1  | 8195.0  | 8256.9  | 8543.2  | 8220.2 |
| 57.5° | 5290.0 | 5312.9 | 5555.7 | 6183.5 | 6877.7 | 7638.3 | 8293.5  | 8747.1  | 8788.4  | 8969.4  | 8472.2 |
| 60°   | 5106.7 | 5131.9 | 5374.7 | 6011.7 | 6983.0 | 7929.2 | 8797.5  | 9303.9  | 9340.5  | 9418.4  | 8765.5 |
| 62.5° | 4632.5 | 4698.9 | 5003.6 | 5727.6 | 6955.6 | 8261.4 | 9335.9  | 9853.7  | 9899.5  | 9814.8  | 8996.9 |
| 65°   | 3761.9 | 3855.8 | 4229.2 | 5083.8 | 6699.0 | 8476.8 | 9775.8  | 10360.0 | 10437.9 | 10112.6 | 9058.7 |
| 67.5° | 2921.1 | 2987.5 | 3287.6 | 4034.5 | 5798.6 | 8369.1 | 10059.9 | 10708.3 | 10731.2 | 10064.5 | 8715.1 |
| 68°   | 2769.9 | 2836.3 | 3122.7 | 3814.6 | 5548.9 | 8240.8 | 10053.0 | 10717.4 | 10767.8 | 10011.8 | 8582.2 |
| 70°   | 2119.2 | 2194.8 | 2467.4 | 3021.9 | 4472.1 | 7425.2 | 9633.8  | 10497.5 | 10490.6 | 9374.9  | 7757.4 |
| 72.5° | 1324.2 | 1367.7 | 1555.6 | 1906.1 | 2957.7 | 5649.7 | 8176.7  | 9258.0  | 9276.4  | 7642.9  | 5949.8 |
| 75°   | 840.8  | 840.8  | 831.6  | 923.3  | 1516.7 | 3218.9 | 6078.1  | 7127.4  | 7141.1  | 5351.8  | 3750.4 |
| 77.5° | 730.8  | 710.2  | 611.7  | 517.8  | 604.8  | 1250.9 | 3596.9  | 4602.7  | 4527.1  | 2882.1  | 1780.1 |
| 80°   | 616.3  | 581.9  | 501.7  | 417.0  | 389.5  | 391.8  | 1381.5  | 2336.8  | 2236.0  | 1037.8  | 591.1  |
| 82.5° | 444.5  | 414.7  | 378.0  | 327.6  | 300.1  | 233.7  | 288.7   | 675.9   | 659.8   | 300.1   | 192.4  |
| 85°   | 240.6  | 217.6  | 213.1  | 215.4  | 181.0  | 144.3  | 121.4   | 148.9   | 148.9   | 130.6   | 110.0  |
| 87.5° | 84.8   | 61.9   | 73.3   | 82.5   | 71.0   | 59.6   | 48.1    | 57.3    | 59.6    | 57.3    | 52.7   |
| 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°    | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 | 2270.4 |
| 2.5°  | 2279.6 | 2302.5 | 2357.5 | 2405.6 | 2439.9 | 2469.7 | 2485.8 | 2492.6 | 2508.7 | 2511.0 | 2506.4 |
| 5°    | 2297.9 | 2357.5 | 2439.9 | 2511.0 | 2549.9 | 2565.9 | 2570.5 | 2572.8 | 2565.9 | 2570.5 | 2565.9 |
| 7.5°  | 2346.0 | 2421.6 | 2538.5 | 2600.3 | 2607.2 | 2582.0 | 2584.3 | 2575.1 | 2584.3 | 2593.4 | 2593.4 |
| 10°   | 2419.3 | 2515.5 | 2625.5 | 2648.4 | 2618.6 | 2604.9 | 2632.4 | 2687.4 | 2705.7 | 2730.9 | 2730.9 |
| 12.5° | 2515.5 | 2630.1 | 2708.0 | 2687.4 | 2659.9 | 2705.7 | 2785.9 | 2840.9 | 2859.2 | 2868.4 | 2861.5 |
| 15°   | 2625.5 | 2749.2 | 2788.2 | 2719.4 | 2769.9 | 2868.4 | 2895.9 | 2863.8 | 2818.0 | 2797.3 | 2808.8 |
| 17.5° | 2765.3 | 2868.4 | 2845.5 | 2799.6 | 2914.2 | 2927.9 | 2838.6 | 2735.5 | 2662.2 | 2634.7 | 2653.0 |
| 20°   | 2911.9 | 3001.2 | 2895.9 | 2916.5 | 2987.5 | 2840.9 | 2671.3 | 2538.5 | 2474.3 | 2462.9 | 2481.2 |
| 22.5° | 3067.7 | 3125.0 | 2946.3 | 3051.6 | 2946.3 | 2648.4 | 2444.5 | 2375.8 | 2359.8 | 2378.1 | 2394.1 |
| 25°   | 3244.1 | 3237.2 | 3033.3 | 3092.9 | 2792.8 | 2412.5 | 2291.0 | 2286.4 | 2286.4 | 2297.9 | 2320.8 |
| 27.5° | 3443.4 | 3335.7 | 3120.4 | 3037.9 | 2527.0 | 2217.7 | 2194.8 | 2197.1 | 2190.2 | 2192.5 | 2204.0 |
| 30°   | 3674.8 | 3468.6 | 3216.6 | 2856.9 | 2229.2 | 2071.1 | 2061.9 | 2055.1 | 2039.0 | 2034.4 | 2039.0 |
| 32.5° | 3965.8 | 3608.4 | 3315.1 | 2559.1 | 1968.0 | 1919.9 | 1915.3 | 1878.6 | 1839.7 | 1835.1 | 1851.1 |
| 35°   | 4334.6 | 3862.7 | 3365.5 | 2185.6 | 1752.6 | 1750.3 | 1734.3 | 1677.0 | 1626.6 | 1626.6 | 1615.2 |
| 37.5° | 4756.2 | 4190.3 | 3386.1 | 1821.4 | 1573.9 | 1585.4 | 1539.6 | 1466.3 | 1427.3 | 1404.4 | 1411.3 |
| 40°   | 5186.9 | 4563.7 | 3383.8 | 1502.9 | 1418.1 | 1420.4 | 1386.1 | 1296.7 | 1200.5 | 1143.2 | 1157.0 |
| 42.5° | 5601.6 | 4902.8 | 3324.3 | 1333.4 | 1292.1 | 1285.3 | 1257.8 | 1136.3 | 1056.2 | 1010.3 | 1012.6 |
| 45°   | 5933.8 | 5253.3 | 3232.6 | 1232.6 | 1177.6 | 1189.0 | 1127.2 | 1053.9 | 980.6  | 939.3  | 937.0  |
| 47.5° | 6266.0 | 5519.1 | 3086.0 | 1170.7 | 1092.8 | 1072.2 | 1047.0 | 996.6  | 941.6  | 895.8  | 898.1  |
| 50°   | 6568.4 | 5745.9 | 2948.6 | 1129.5 | 1014.9 | 962.2  | 966.8  | 937.0  | 888.9  | 847.7  | 845.4  |
| 52.5° | 6781.4 | 5894.8 | 2872.9 | 1106.6 | 921.0  | 863.7  | 879.8  | 863.7  | 817.9  | 788.1  | 785.8  |
| 55°   | 6994.5 | 6009.4 | 2898.1 | 1076.8 | 817.9  | 772.1  | 799.6  | 795.0  | 769.8  | 760.6  | 762.9  |
| 57.5° | 7166.3 | 6096.4 | 2987.5 | 1021.8 | 719.4  | 691.9  | 737.7  | 724.0  | 705.6  | 707.9  | 707.9  |
| 60°   | 7333.6 | 6208.7 | 3092.9 | 895.8  | 634.6  | 636.9  | 680.4  | 655.2  | 643.8  | 664.4  | 666.7  |
| 62.5° | 7507.7 | 6330.1 | 3005.8 | 712.5  | 561.3  | 577.3  | 627.7  | 607.1  | 611.7  | 641.5  | 650.7  |
| 65°   | 7487.1 | 6318.6 | 2449.1 | 584.2  | 497.2  | 529.2  | 604.8  | 598.0  | 600.2  | 611.7  | 616.3  |
| 67.5° | 7065.5 | 5915.4 | 1683.9 | 497.2  | 451.3  | 490.3  | 586.5  | 559.0  | 561.3  | 554.4  | 556.7  |
| 68°   | 6923.5 | 5773.4 | 1484.6 | 483.4  | 442.2  | 481.1  | 577.3  | 552.1  | 554.4  | 547.6  | 545.3  |
| 70°   | 6149.1 | 4944.0 | 939.3  | 426.1  | 410.1  | 455.9  | 531.5  | 522.4  | 520.1  | 515.5  | 515.5  |
| 72.5° | 4687.4 | 3649.6 | 494.9  | 368.9  | 373.4  | 417.0  | 474.2  | 492.6  | 481.1  | 483.4  | 497.2  |
| 75°   | 3104.3 | 2194.8 | 343.7  | 316.2  | 327.6  | 357.4  | 421.5  | 458.2  | 446.8  | 453.6  | 446.8  |
| 77.5° | 1642.7 | 1182.2 | 274.9  | 268.1  | 268.1  | 288.7  | 348.2  | 405.5  | 405.5  | 400.9  | 394.1  |
| 80°   | 538.4  | 417.0  | 219.9  | 210.8  | 215.4  | 226.8  | 279.5  | 332.2  | 339.1  | 329.9  | 325.3  |
| 82.5° | 181.0  | 192.4  | 165.0  | 153.5  | 158.1  | 167.2  | 210.8  | 254.3  | 256.6  | 238.3  | 233.7  |
| 85°   | 112.3  | 128.3  | 103.1  | 100.8  | 100.8  | 103.1  | 128.3  | 139.8  | 128.3  | 114.6  | 119.1  |
| 87.5° | 52.7   | 64.1   | 48.1   | 41.2   | 34.4   | 29.8   | 22.9   | 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)