

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: P1211162

Luminaire Tested: **ARCH4-190-727-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-190-727-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19762 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 190  
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



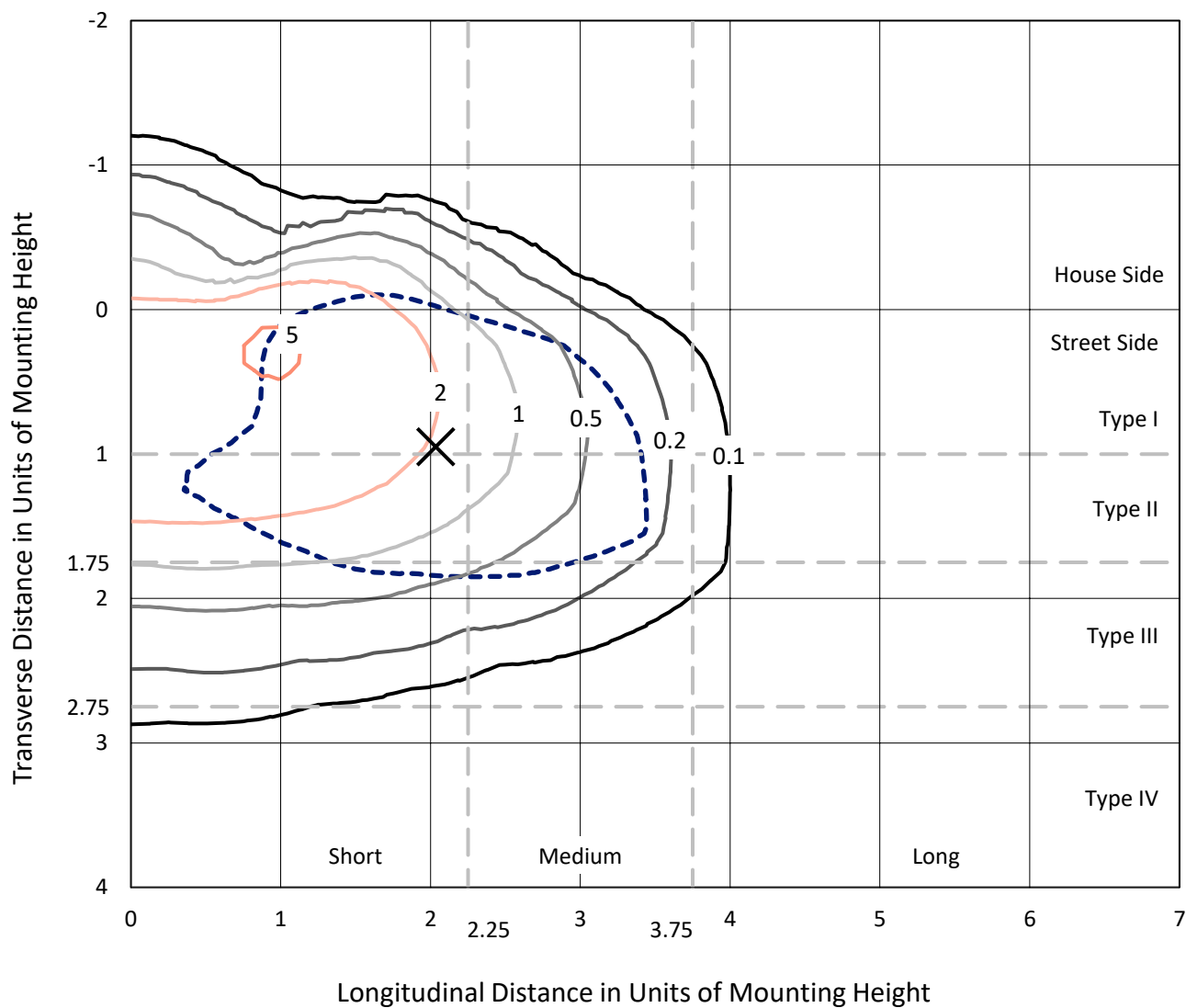
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

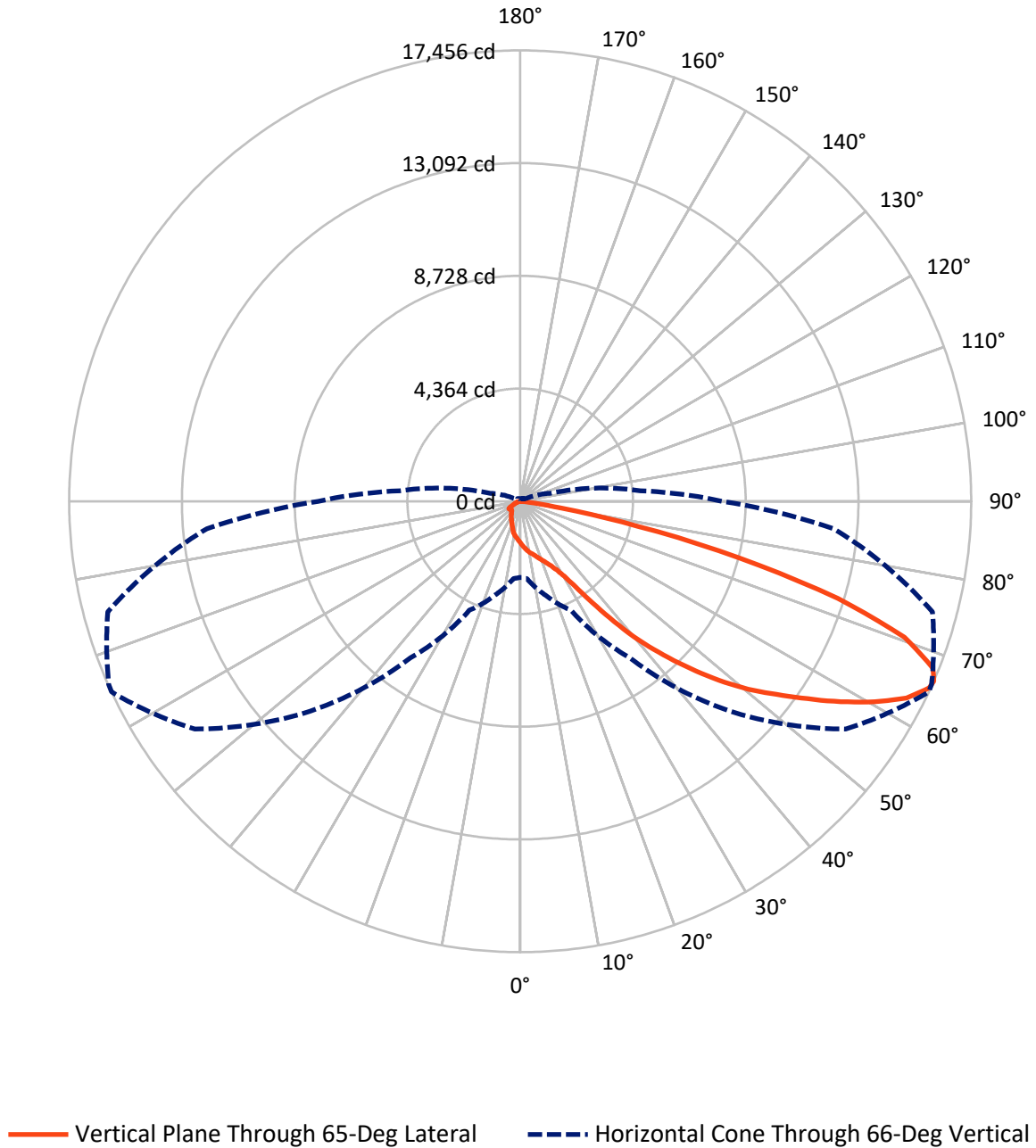
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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    | 2332.3   | 0.0    | 2332.3  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 17429.7  | 0.0    | 17429.7 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 19762.0  | 0.0    | 19762.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 152.6   | 0.8       |
| 10°-20°   | 451.8   | 2.3       |
| 20°-30°   | 827.0   | 4.2       |
| 30°-40°   | 1680.5  | 8.5       |
| 40°-50°   | 3548.7  | 18.0      |
| 50°-60°   | 5455.5  | 27.6      |
| 60°-70°   | 5491.4  | 27.8      |
| 70°-80°   | 2051.9  | 10.4      |
| 80°-90°   | 102.5   | 0.5       |
| 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°    | 19762.0 | 100.0     |
| 0°-180°   | 19762.0 | 100.0     |

**Coefficient of Utilization**



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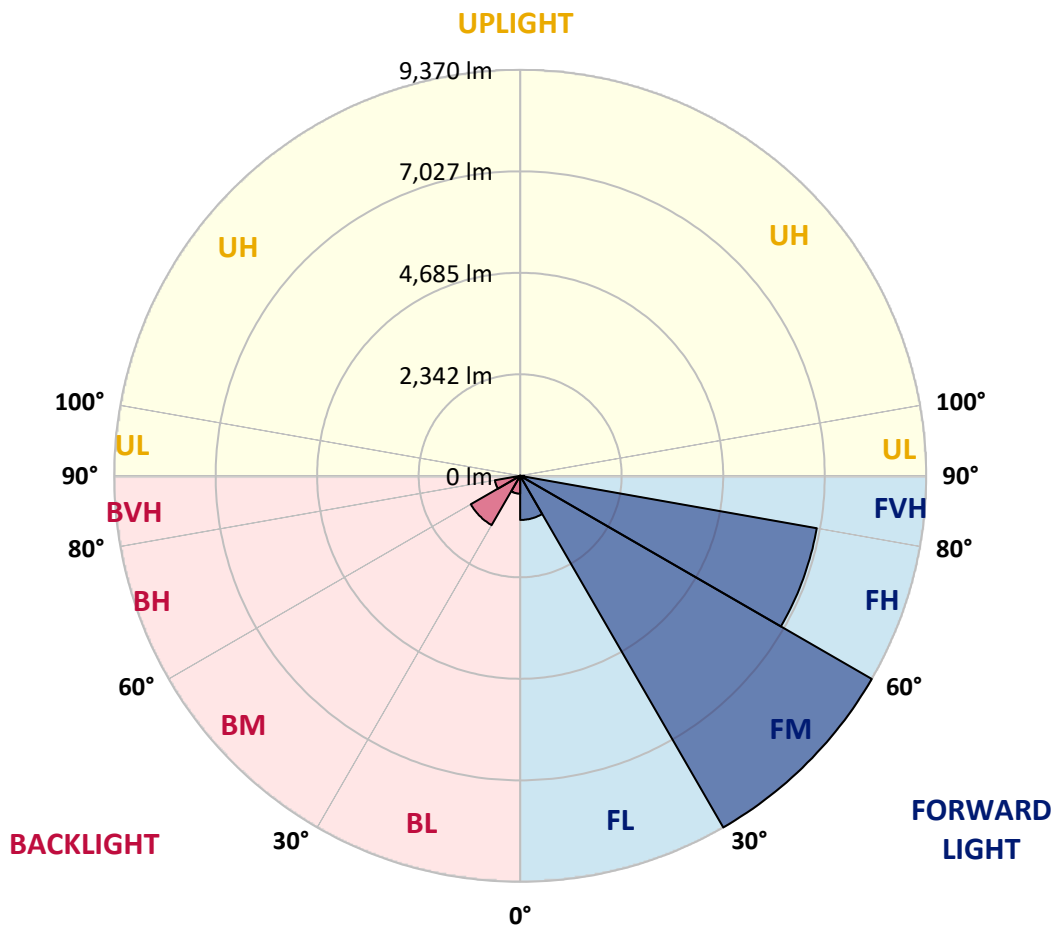
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1018.7 | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 9369.8 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 6950.8 | 35.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 90.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 412.8  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1315.0 | 6.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 592.5  | 3.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 12.1   | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0  | 1610.0  | 1610.0  | 1610.0  | 1610.0  | 1610.0  | 1610.0  |
| 2.5°  | 1836.0 | 1839.5 | 1832.4 | 1818.0 | 1803.7  | 1785.8  | 1757.1  | 1710.5  | 1703.3  | 1671.0  | 1635.1  |
| 5°    | 1961.5 | 1968.6 | 1957.9 | 1954.3 | 1947.1  | 1922.0  | 1882.6  | 1814.4  | 1807.3  | 1742.7  | 1660.2  |
| 7.5°  | 2004.5 | 2015.2 | 2008.1 | 2008.1 | 2008.1  | 1997.3  | 1979.4  | 1918.4  | 1907.7  | 1825.2  | 1699.7  |
| 10°   | 2036.8 | 2043.9 | 2040.3 | 2054.7 | 2065.5  | 2058.3  | 2047.5  | 2011.7  | 2000.9  | 1918.4  | 1753.5  |
| 12.5° | 2087.0 | 2090.6 | 2094.1 | 2101.3 | 2119.2  | 2126.4  | 2122.8  | 2090.6  | 2083.4  | 2026.0  | 1821.6  |
| 15°   | 2133.6 | 2133.6 | 2137.2 | 2169.4 | 2194.5  | 2208.9  | 2212.5  | 2187.4  | 2180.2  | 2133.6  | 1907.7  |
| 17.5° | 2176.6 | 2180.2 | 2191.0 | 2226.8 | 2269.8  | 2298.5  | 2316.5  | 2305.7  | 2294.9  | 2259.1  | 2008.1  |
| 20°   | 2241.2 | 2248.3 | 2259.1 | 2309.3 | 2352.3  | 2398.9  | 2434.8  | 2431.2  | 2427.6  | 2402.5  | 2126.4  |
| 22.5° | 2352.3 | 2359.5 | 2377.4 | 2424.0 | 2467.1  | 2524.4  | 2585.4  | 2581.8  | 2571.1  | 2553.1  | 2266.3  |
| 25°   | 2520.9 | 2520.9 | 2531.6 | 2571.1 | 2624.8  | 2693.0  | 2750.3  | 2761.1  | 2750.3  | 2739.6  | 2442.0  |
| 27.5° | 2732.4 | 2736.0 | 2736.0 | 2779.0 | 2829.2  | 2915.3  | 2987.0  | 2997.8  | 2997.8  | 2987.0  | 2678.6  |
| 30°   | 3026.5 | 3015.7 | 3008.5 | 3044.4 | 3098.2  | 3223.7  | 3349.2  | 3370.7  | 3359.9  | 3377.9  | 3012.1  |
| 32.5° | 3532.1 | 3514.1 | 3453.2 | 3460.3 | 3492.6  | 3664.7  | 3876.3  | 3951.6  | 3948.0  | 3980.3  | 3550.0  |
| 35°   | 4231.3 | 4195.4 | 4105.8 | 4030.5 | 4026.9  | 4213.4  | 4536.1  | 4819.4  | 4815.8  | 4927.0  | 4367.6  |
| 37.5° | 5020.2 | 5066.8 | 4898.3 | 4769.2 | 4729.7  | 4876.8  | 5292.7  | 5905.9  | 5938.2  | 6131.8  | 5439.7  |
| 40°   | 6074.4 | 6103.1 | 5888.0 | 5705.1 | 5518.6  | 5572.4  | 6121.0  | 7074.9  | 7132.3  | 7347.4  | 6511.9  |
| 42.5° | 6992.4 | 7021.1 | 6895.6 | 6673.3 | 6436.6  | 6336.2  | 6956.6  | 8136.3  | 8182.9  | 8480.5  | 7616.3  |
| 45°   | 7616.3 | 7637.9 | 7680.9 | 7702.4 | 7433.5  | 7225.5  | 7978.5  | 9226.4  | 9283.8  | 9628.0  | 8695.7  |
| 47.5° | 8104.0 | 8122.0 | 8208.0 | 8423.2 | 8369.4  | 8204.4  | 9018.4  | 10359.5 | 10373.9 | 10757.6 | 9746.3  |
| 50°   | 8329.9 | 8373.0 | 8584.5 | 8914.4 | 9151.1  | 9197.7  | 10148.0 | 11431.7 | 11471.1 | 11836.9 | 10739.6 |
| 52.5° | 8078.9 | 8093.3 | 8627.6 | 9247.9 | 9724.8  | 10198.2 | 11281.1 | 12425.0 | 12539.7 | 12812.2 | 11632.5 |
| 55°   | 7232.7 | 7336.7 | 8147.1 | 9237.2 | 10176.6 | 11148.4 | 12493.1 | 13497.1 | 13601.1 | 13773.3 | 12417.8 |
| 57.5° | 6250.1 | 6364.9 | 7351.0 | 8774.6 | 10370.3 | 12026.9 | 13615.5 | 14637.4 | 14709.2 | 14755.8 | 13138.6 |
| 60°   | 5400.3 | 5507.9 | 6522.7 | 7888.9 | 10176.6 | 12647.3 | 14659.0 | 15770.6 | 15831.5 | 15706.0 | 13500.7 |
| 62.5° | 4356.8 | 4464.4 | 5486.4 | 6716.3 | 9416.4  | 12772.8 | 15433.5 | 16778.2 | 16803.3 | 16462.6 | 13278.4 |
| 65°   | 3284.6 | 3356.4 | 4209.8 | 5264.0 | 8086.1  | 12105.8 | 15609.2 | 17405.7 | 17380.6 | 16681.4 | 12611.4 |
| 66°   | 2944.0 | 3004.9 | 3758.0 | 4654.4 | 7394.0  | 11496.2 | 15372.5 | 17455.9 | 17430.8 | 16520.0 | 12174.0 |
| 67.5° | 2538.8 | 2556.7 | 3177.1 | 3808.2 | 6185.6  | 10201.7 | 14651.8 | 17226.4 | 17247.9 | 16075.4 | 11374.3 |
| 70°   | 1983.0 | 1979.4 | 2338.0 | 2649.9 | 4224.1  | 7257.8  | 12220.6 | 15781.3 | 15885.3 | 14397.2 | 9699.7  |
| 72.5° | 1269.4 | 1226.4 | 1434.3 | 1620.8 | 2459.9  | 4213.4  | 8910.8  | 12862.4 | 13038.2 | 11309.8 | 7225.5  |
| 75°   | 756.6  | 713.6  | 763.8  | 810.4  | 1179.7  | 2026.0  | 5238.9  | 8753.1  | 8921.6  | 7250.6  | 4299.4  |
| 77.5° | 566.6  | 548.6  | 552.2  | 512.8  | 523.5   | 760.2   | 2391.8  | 4625.7  | 4747.7  | 2969.1  | 1631.6  |
| 80°   | 433.9  | 387.3  | 362.2  | 380.1  | 344.2   | 301.2   | 889.3   | 1592.1  | 1667.4  | 702.8   | 340.7   |
| 82.5° | 290.5  | 251.0  | 233.1  | 254.6  | 218.7   | 168.5   | 215.2   | 308.4   | 301.2   | 190.1   | 132.7   |
| 85°   | 150.6  | 129.1  | 129.1  | 129.1  | 111.2   | 82.5    | 93.2    | 125.5   | 125.5   | 100.4   | 78.9    |
| 87.5° | 43.0   | 39.4   | 46.6   | 43.0   | 32.3    | 32.3    | 35.9    | 43.0    | 43.0    | 39.4    | 35.9    |
| 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°    | 1610.0  | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 | 1610.0 |
| 2.5°  | 1606.5  | 1592.1 | 1552.7 | 1524.0 | 1495.3 | 1470.2 | 1441.5 | 1434.3 | 1420.0 | 1423.6 | 1416.4 |
| 5°    | 1617.2  | 1577.8 | 1509.6 | 1445.1 | 1394.9 | 1351.9 | 1298.1 | 1276.6 | 1247.9 | 1237.1 | 1229.9 |
| 7.5°  | 1631.6  | 1574.2 | 1473.8 | 1384.1 | 1298.1 | 1212.0 | 1126.0 | 1075.8 | 1043.5 | 1029.1 | 1018.4 |
| 10°   | 1663.8  | 1588.5 | 1455.9 | 1316.0 | 1169.0 | 1047.1 | 961.0  | 925.1  | 903.6  | 900.0  | 896.5  |
| 12.5° | 1706.9  | 1610.0 | 1437.9 | 1229.9 | 1036.3 | 921.6  | 867.8  | 857.0  | 853.4  | 853.4  | 849.8  |
| 15°   | 1771.4  | 1645.9 | 1409.2 | 1129.5 | 932.3  | 853.4  | 828.3  | 810.4  | 803.2  | 803.2  | 803.2  |
| 17.5° | 1836.0  | 1688.9 | 1366.2 | 1025.6 | 860.6  | 810.4  | 785.3  | 774.5  | 767.4  | 771.0  | 767.4  |
| 20°   | 1918.4  | 1739.1 | 1308.8 | 935.9  | 814.0  | 774.5  | 749.4  | 738.7  | 735.1  | 735.1  | 735.1  |
| 22.5° | 2011.7  | 1796.5 | 1237.1 | 867.8  | 774.5  | 738.7  | 713.6  | 702.8  | 695.7  | 699.2  | 699.2  |
| 25°   | 2137.2  | 1868.2 | 1161.8 | 799.6  | 735.1  | 702.8  | 674.1  | 659.8  | 659.8  | 663.4  | 667.0  |
| 27.5° | 2298.5  | 1954.3 | 1086.5 | 756.6  | 699.2  | 667.0  | 634.7  | 620.4  | 623.9  | 631.1  | 631.1  |
| 30°   | 2535.2  | 2072.6 | 1011.2 | 710.0  | 659.8  | 623.9  | 595.3  | 580.9  | 588.1  | 602.4  | 602.4  |
| 32.5° | 2872.3  | 2266.3 | 946.7  | 656.2  | 602.4  | 563.0  | 534.3  | 523.5  | 541.5  | 570.2  | 570.2  |
| 35°   | 3474.7  | 2621.3 | 907.2  | 602.4  | 541.5  | 494.8  | 459.0  | 448.2  | 473.3  | 509.2  | 509.2  |
| 37.5° | 4281.5  | 3191.4 | 921.6  | 555.8  | 491.3  | 437.5  | 398.0  | 383.7  | 401.6  | 433.9  | 444.6  |
| 40°   | 5181.6  | 3879.9 | 1047.1 | 516.4  | 444.6  | 390.9  | 351.4  | 337.1  | 347.8  | 362.2  | 365.8  |
| 42.5° | 6081.6  | 4611.4 | 1283.7 | 487.7  | 408.8  | 351.4  | 315.6  | 304.8  | 312.0  | 315.6  | 319.1  |
| 45°   | 6978.1  | 5335.7 | 1581.4 | 469.7  | 376.5  | 319.1  | 283.3  | 283.3  | 286.9  | 286.9  | 286.9  |
| 47.5° | 7827.9  | 6042.2 | 1893.3 | 466.2  | 347.8  | 286.9  | 258.2  | 261.8  | 261.8  | 265.4  | 265.4  |
| 50°   | 8631.1  | 6673.3 | 2208.9 | 476.9  | 322.7  | 258.2  | 236.7  | 236.7  | 236.7  | 240.3  | 236.7  |
| 52.5° | 9301.7  | 7225.5 | 2538.8 | 494.8  | 297.6  | 236.7  | 215.2  | 215.2  | 215.2  | 218.7  | 215.2  |
| 55°   | 9936.4  | 7727.5 | 2875.9 | 519.9  | 276.1  | 218.7  | 197.2  | 190.1  | 190.1  | 193.6  | 190.1  |
| 57.5° | 10452.8 | 8061.0 | 3195.0 | 523.5  | 258.2  | 200.8  | 182.9  | 172.1  | 172.1  | 172.1  | 172.1  |
| 60°   | 10474.3 | 7867.4 | 3288.2 | 459.0  | 236.7  | 182.9  | 164.9  | 150.6  | 154.2  | 154.2  | 154.2  |
| 62.5° | 9789.4  | 6849.0 | 2642.8 | 344.2  | 211.6  | 164.9  | 150.6  | 136.3  | 136.3  | 136.3  | 136.3  |
| 65°   | 8444.7  | 5328.6 | 1549.1 | 272.5  | 182.9  | 147.0  | 132.7  | 121.9  | 121.9  | 121.9  | 118.3  |
| 66°   | 7813.6  | 4672.4 | 1186.9 | 247.4  | 172.1  | 143.4  | 129.1  | 118.3  | 114.7  | 111.2  | 111.2  |
| 67.5° | 6784.4  | 3693.4 | 742.3  | 218.7  | 157.8  | 132.7  | 118.3  | 107.6  | 104.0  | 100.4  | 100.4  |
| 70°   | 5109.8  | 2345.1 | 362.2  | 168.5  | 136.3  | 114.7  | 104.0  | 93.2   | 89.6   | 86.1   | 82.5   |
| 72.5° | 3585.9  | 1373.4 | 190.1  | 129.1  | 111.2  | 100.4  | 89.6   | 78.9   | 75.3   | 71.7   | 71.7   |
| 75°   | 2026.0  | 663.4  | 125.5  | 93.2   | 89.6   | 82.5   | 75.3   | 64.5   | 61.0   | 61.0   | 61.0   |
| 77.5° | 767.4   | 229.5  | 86.1   | 68.1   | 71.7   | 64.5   | 53.8   | 53.8   | 50.2   | 53.8   | 50.2   |
| 80°   | 200.8   | 100.4  | 53.8   | 50.2   | 53.8   | 46.6   | 39.4   | 43.0   | 43.0   | 43.0   | 43.0   |
| 82.5° | 107.6   | 57.4   | 32.3   | 35.9   | 32.3   | 32.3   | 25.1   | 28.7   | 32.3   | 28.7   | 32.3   |
| 85°   | 75.3    | 28.7   | 17.9   | 17.9   | 14.3   | 14.3   | 10.8   | 14.3   | 17.9   | 14.3   | 14.3   |
| 87.5° | 39.4    | 10.8   | 10.8   | 10.8   | 10.8   | 7.2    | 3.6    | 0.0    | 3.6    | 3.6    | 3.6    |
| 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)