

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: P800024

Luminaire Tested: **ARCH2-70-730-U-T4W-HSS**

Issue Date: 4/4/2024

### Test Information

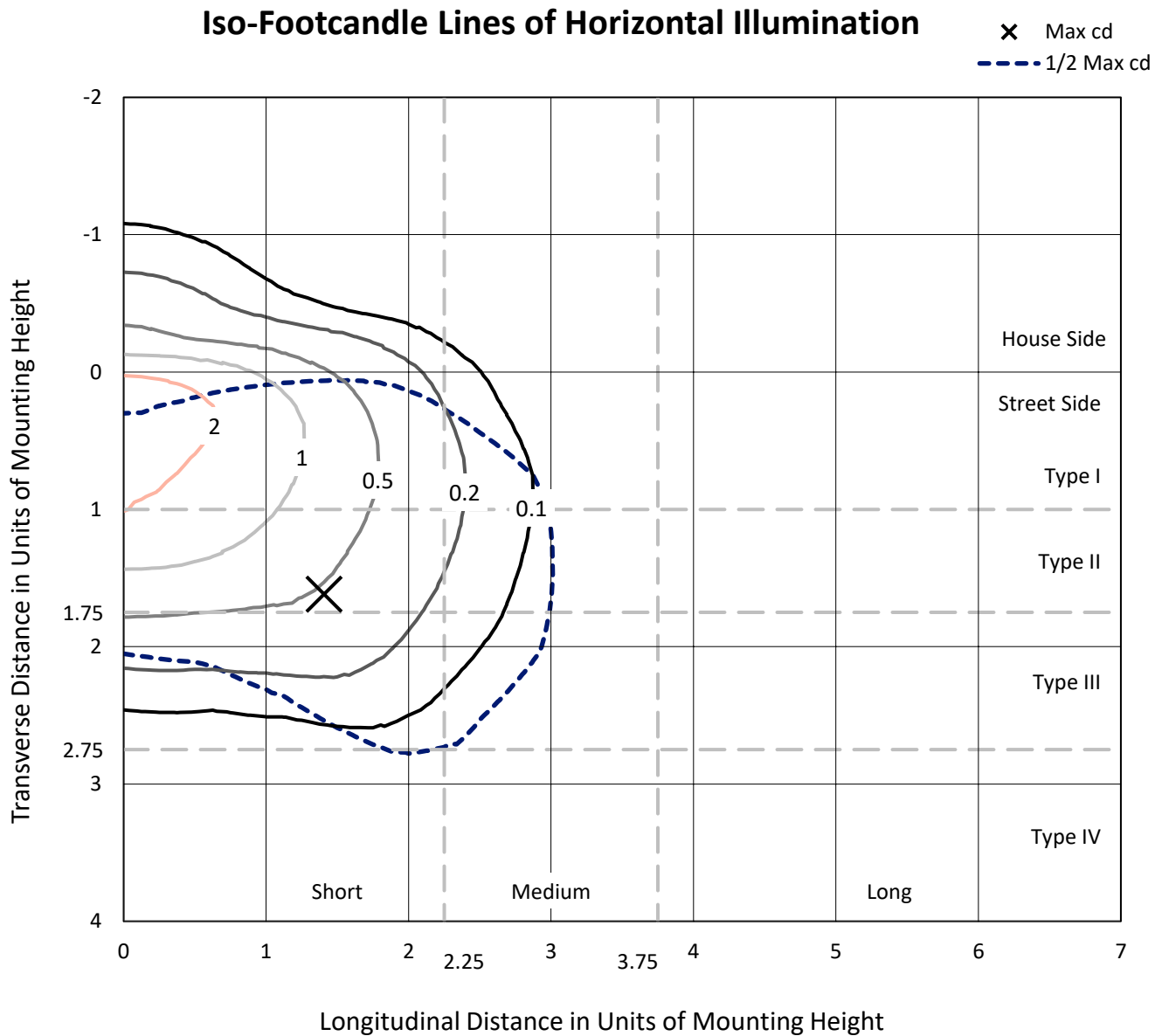
Test Method: LM-79-08  
Report Number: P800024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-70-730-U-T4W-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6893 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.6  
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



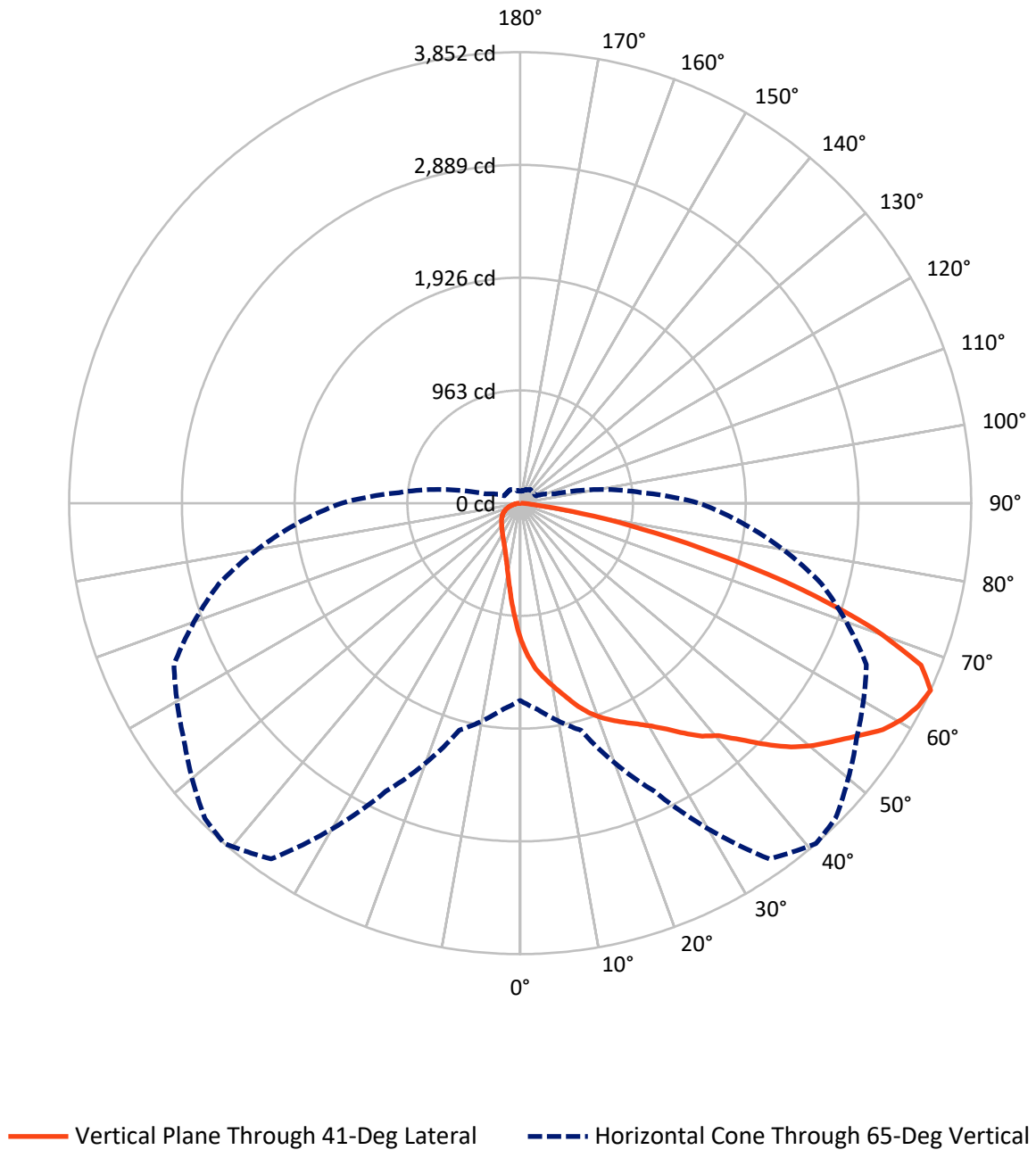
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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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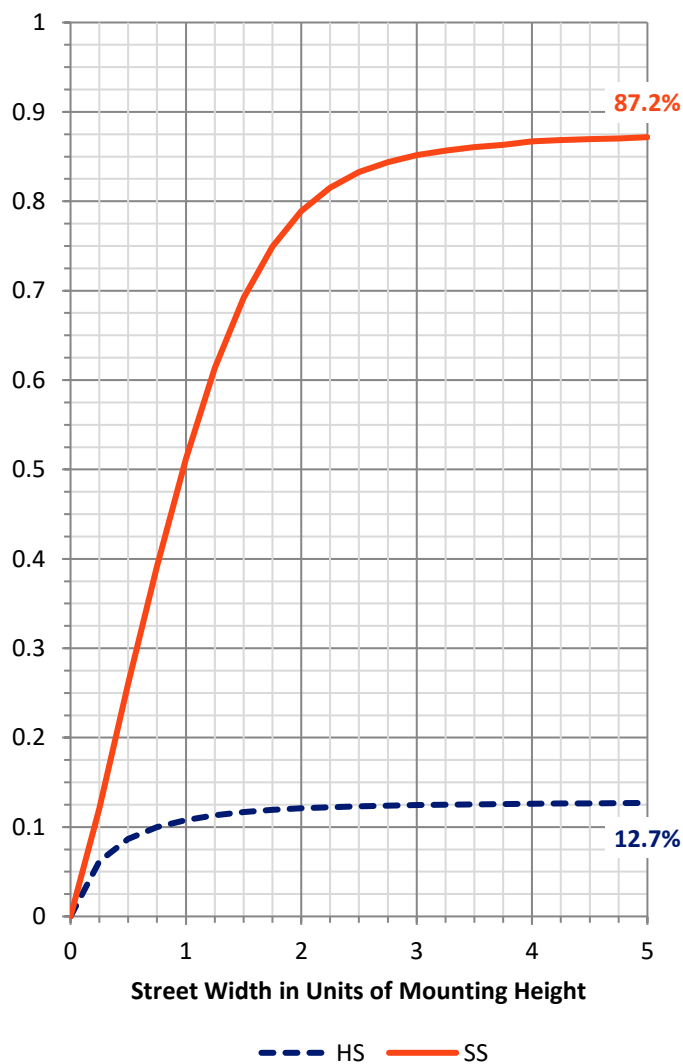
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 885.0    | 0.0    | 885.0  |
|                    | % Fixture | 12.8     | 0.0    | 12.8   |
| <b>Street Side</b> | Lumens    | 6008.1   | 0.0    | 6008.1 |
|                    | % Fixture | 87.2     | 0.0    | 87.2   |
| <b>Total</b>       | Lumens    | 6893.0   | 0.0    | 6893.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.4  | 1.6       |
| 10°-20°   | 328.2  | 4.8       |
| 20°-30°   | 564.5  | 8.2       |
| 30°-40°   | 856.2  | 12.4      |
| 40°-50°   | 1254.4 | 18.2      |
| 50°-60°   | 1584.0 | 23.0      |
| 60°-70°   | 1485.3 | 21.5      |
| 70°-80°   | 662.0  | 9.6       |
| 80°-90°   | 49.0   | 0.7       |
| 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°    | 6893.0 | 100.0     |
| 0°-180°   | 6893.0 | 100.0     |

**Coefficient of Utilization**



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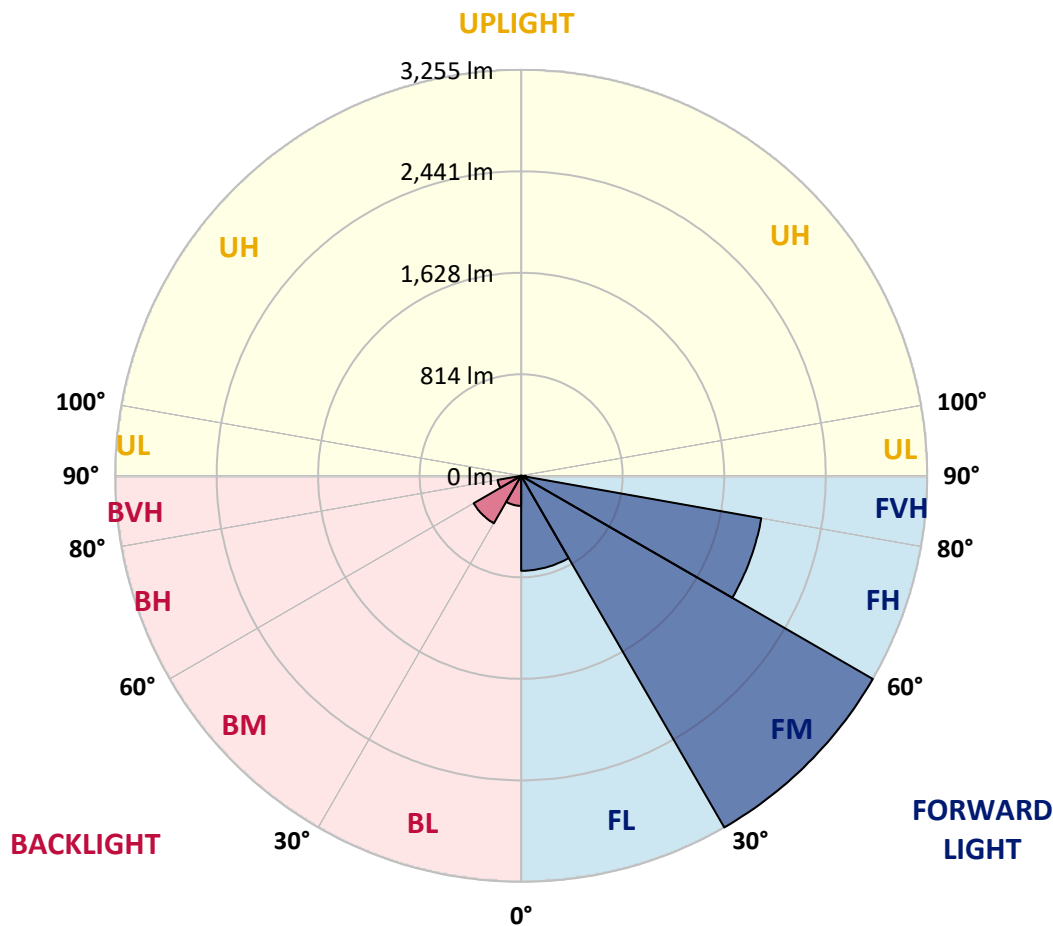
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 761.2  | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 3255.1 | 47.2      |                         |      |         |
| FH   | (60°-80°)   | 1955.0 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 36.6   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 240.9  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 439.4  | 6.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 192.2  | 2.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.4   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 41°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 |
| 2.5°  | 1354.8 | 1350.4 | 1347.5 | 1331.5 | 1331.5 | 1309.7 | 1311.2 | 1290.8 | 1266.1 | 1226.9 | 1184.7 |
| 5°    | 1482.7 | 1476.9 | 1469.6 | 1453.6 | 1447.8 | 1426.0 | 1423.1 | 1394.0 | 1351.9 | 1283.6 | 1208.0 |
| 7.5°  | 1594.6 | 1588.8 | 1578.6 | 1555.4 | 1539.4 | 1513.2 | 1506.0 | 1468.2 | 1421.6 | 1337.3 | 1231.2 |
| 10°   | 1696.4 | 1692.0 | 1678.9 | 1649.9 | 1628.1 | 1596.1 | 1583.0 | 1532.1 | 1474.0 | 1380.9 | 1250.1 |
| 12.5° | 1799.6 | 1793.8 | 1776.3 | 1751.6 | 1725.5 | 1687.7 | 1671.7 | 1606.3 | 1532.1 | 1428.9 | 1277.7 |
| 15°   | 1895.5 | 1886.8 | 1873.7 | 1847.6 | 1824.3 | 1788.0 | 1770.5 | 1693.5 | 1603.4 | 1482.7 | 1314.1 |
| 17.5° | 1958.0 | 1950.8 | 1939.1 | 1924.6 | 1905.7 | 1878.1 | 1860.6 | 1785.1 | 1674.6 | 1535.0 | 1351.9 |
| 20°   | 1995.8 | 1992.9 | 1988.6 | 1979.8 | 1971.1 | 1952.2 | 1939.1 | 1867.9 | 1751.6 | 1585.9 | 1388.2 |
| 22.5° | 2024.9 | 2022.0 | 2020.5 | 2020.5 | 2022.0 | 2014.7 | 2006.0 | 1945.0 | 1825.8 | 1639.7 | 1421.6 |
| 25°   | 2070.0 | 2068.5 | 2065.6 | 2062.7 | 2072.9 | 2074.3 | 2071.4 | 2029.3 | 1918.8 | 1710.9 | 1463.8 |
| 27.5° | 2132.5 | 2128.1 | 2122.3 | 2119.4 | 2129.6 | 2136.8 | 2142.6 | 2113.6 | 2017.6 | 1783.6 | 1511.8 |
| 30°   | 2228.4 | 2215.3 | 2200.8 | 2190.6 | 2197.9 | 2209.5 | 2222.6 | 2205.2 | 2119.4 | 1873.7 | 1561.2 |
| 32.5° | 2341.8 | 2325.8 | 2292.4 | 2273.5 | 2292.4 | 2301.1 | 2311.3 | 2302.5 | 2225.5 | 1971.1 | 1610.6 |
| 35°   | 2479.9 | 2461.0 | 2426.1 | 2398.5 | 2431.9 | 2413.0 | 2408.7 | 2399.9 | 2325.8 | 2067.1 | 1665.9 |
| 37.5° | 2709.6 | 2681.9 | 2626.7 | 2565.7 | 2565.7 | 2525.0 | 2509.0 | 2482.8 | 2415.9 | 2152.8 | 1719.6 |
| 40°   | 2975.6 | 2939.2 | 2868.0 | 2777.9 | 2695.0 | 2610.7 | 2600.5 | 2581.6 | 2522.0 | 2251.7 | 1780.7 |
| 42.5° | 3267.8 | 3198.0 | 3099.1 | 2990.1 | 2856.4 | 2760.4 | 2737.2 | 2683.4 | 2625.3 | 2352.0 | 1841.7 |
| 45°   | 3591.9 | 3446.6 | 3302.6 | 3247.4 | 3026.5 | 2939.2 | 2895.6 | 2798.2 | 2732.8 | 2456.6 | 1905.7 |
| 47.5° | 3644.2 | 3530.9 | 3434.9 | 3426.2 | 3184.9 | 3112.2 | 3062.8 | 2923.2 | 2849.1 | 2568.6 | 1972.6 |
| 50°   | 3615.2 | 3546.9 | 3557.0 | 3522.1 | 3301.2 | 3253.2 | 3215.4 | 3057.0 | 2963.9 | 2676.1 | 2033.6 |
| 52.5° | 3493.1 | 3530.9 | 3589.0 | 3525.0 | 3411.7 | 3372.4 | 3353.5 | 3200.9 | 3071.5 | 2775.0 | 2088.9 |
| 55°   | 3347.7 | 3373.9 | 3498.9 | 3577.4 | 3539.6 | 3504.7 | 3487.3 | 3368.1 | 3177.6 | 2857.8 | 2139.7 |
| 57.5° | 3135.5 | 3123.8 | 3261.9 | 3568.7 | 3673.3 | 3653.0 | 3634.1 | 3532.3 | 3276.5 | 2917.4 | 2171.7 |
| 60°   | 2817.1 | 2792.4 | 2966.9 | 3394.2 | 3716.9 | 3748.9 | 3740.2 | 3641.3 | 3352.1 | 2916.0 | 2158.6 |
| 62.5° | 2266.2 | 2327.3 | 2568.6 | 3109.3 | 3735.8 | 3817.2 | 3801.2 | 3650.1 | 3376.8 | 2831.7 | 2075.8 |
| 65°   | 1684.8 | 1772.0 | 2008.9 | 2716.8 | 3709.7 | 3852.1 | 3808.5 | 3507.6 | 3261.9 | 2664.5 | 1894.1 |
| 67.5° | 1213.8 | 1290.8 | 1463.8 | 2235.7 | 3458.2 | 3692.2 | 3641.3 | 3275.0 | 2997.4 | 2427.6 | 1642.6 |
| 70°   | 830.0  | 885.3  | 1003.0 | 1628.1 | 2952.3 | 3192.2 | 3160.2 | 2927.6 | 2580.2 | 2145.6 | 1334.4 |
| 72.5° | 585.8  | 609.1  | 684.7  | 1074.2 | 2242.9 | 2504.6 | 2466.8 | 2408.7 | 2072.9 | 1783.6 | 1037.9 |
| 75°   | 439.0  | 453.5  | 494.2  | 694.8  | 1513.2 | 1735.6 | 1700.7 | 1734.2 | 1548.1 | 1350.4 | 755.9  |
| 77.5° | 165.7  | 180.2  | 280.6  | 443.4  | 895.4  | 1065.5 | 1030.6 | 1051.0 | 860.5  | 681.8  | 376.5  |
| 80°   | 45.1   | 48.0   | 93.0   | 210.8  | 407.0  | 530.6  | 482.6  | 414.3  | 319.8  | 314.0  | 199.1  |
| 82.5° | 18.9   | 21.8   | 42.2   | 113.4  | 145.4  | 145.4  | 122.1  | 151.2  | 122.1  | 146.8  | 95.9   |
| 85°   | 7.3    | 8.7    | 10.2   | 29.1   | 18.9   | 20.4   | 21.8   | 29.1   | 24.7   | 30.5   | 21.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 2.9    | 1.5    | 2.9    | 4.4    | 4.4    | 4.4    |
| 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°    | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 | 1174.5 |
| 2.5°  | 1167.3 | 1151.3 | 1128.0 | 1090.2 | 1051.0 | 1029.2 | 1001.5 | 997.2  | 968.1  | 965.2  | 953.6  |
| 5°    | 1174.5 | 1141.1 | 1081.5 | 1008.8 | 937.6  | 882.4  | 841.7  | 819.8  | 777.7  | 777.7  | 766.1  |
| 7.5°  | 1180.3 | 1128.0 | 1032.1 | 924.5  | 827.1  | 753.0  | 697.7  | 674.5  | 636.7  | 633.8  | 625.1  |
| 10°   | 1181.8 | 1112.0 | 978.3  | 838.7  | 719.5  | 644.0  | 590.2  | 564.0  | 530.6  | 527.7  | 521.9  |
| 12.5° | 1193.4 | 1103.3 | 930.3  | 764.6  | 642.5  | 561.1  | 508.8  | 487.0  | 460.8  | 457.9  | 452.1  |
| 15°   | 1212.3 | 1103.3 | 889.6  | 702.1  | 574.2  | 498.6  | 453.5  | 433.2  | 414.3  | 411.4  | 408.5  |
| 17.5° | 1231.2 | 1100.4 | 848.9  | 644.0  | 517.5  | 449.2  | 409.9  | 393.9  | 379.4  | 377.9  | 375.0  |
| 20°   | 1248.7 | 1098.9 | 808.2  | 594.5  | 473.9  | 408.5  | 377.9  | 363.4  | 351.8  | 351.8  | 350.3  |
| 22.5° | 1266.1 | 1096.0 | 769.0  | 548.0  | 436.1  | 377.9  | 351.8  | 335.8  | 327.1  | 327.1  | 325.6  |
| 25°   | 1292.3 | 1096.0 | 732.6  | 508.8  | 405.6  | 354.7  | 328.5  | 316.9  | 309.6  | 308.2  | 308.2  |
| 27.5° | 1322.8 | 1104.8 | 700.6  | 473.9  | 379.4  | 331.4  | 311.1  | 299.4  | 290.7  | 287.8  | 289.3  |
| 30°   | 1356.2 | 1112.0 | 671.6  | 443.4  | 354.7  | 314.0  | 292.2  | 280.6  | 271.8  | 268.9  | 270.4  |
| 32.5° | 1389.7 | 1120.7 | 645.4  | 415.7  | 330.0  | 298.0  | 276.2  | 263.1  | 254.4  | 252.9  | 252.9  |
| 35°   | 1426.0 | 1129.5 | 619.2  | 392.5  | 309.6  | 282.0  | 261.7  | 247.1  | 241.3  | 238.4  | 239.8  |
| 37.5° | 1462.3 | 1144.0 | 594.5  | 370.7  | 295.1  | 267.5  | 248.6  | 234.0  | 229.7  | 228.2  | 228.2  |
| 40°   | 1506.0 | 1165.8 | 584.4  | 356.1  | 282.0  | 254.4  | 238.4  | 223.9  | 219.5  | 219.5  | 219.5  |
| 42.5° | 1542.3 | 1183.3 | 575.6  | 340.1  | 271.8  | 242.8  | 228.2  | 216.6  | 213.7  | 212.2  | 213.7  |
| 45°   | 1578.6 | 1199.2 | 564.0  | 325.6  | 258.7  | 231.1  | 219.5  | 207.9  | 205.0  | 205.0  | 205.0  |
| 47.5° | 1615.0 | 1208.0 | 548.0  | 311.1  | 247.1  | 221.0  | 210.8  | 200.6  | 197.7  | 197.7  | 197.7  |
| 50°   | 1644.1 | 1215.2 | 524.8  | 295.1  | 234.0  | 212.2  | 202.1  | 191.9  | 189.0  | 189.0  | 189.0  |
| 52.5° | 1673.1 | 1216.7 | 500.0  | 276.2  | 221.0  | 202.1  | 193.3  | 183.2  | 180.2  | 178.8  | 178.8  |
| 55°   | 1699.3 | 1215.2 | 471.0  | 254.4  | 206.4  | 190.4  | 183.2  | 174.4  | 168.6  | 162.8  | 165.7  |
| 57.5° | 1718.2 | 1213.8 | 437.5  | 232.6  | 191.9  | 178.8  | 175.9  | 164.3  | 152.6  | 138.1  | 141.0  |
| 60°   | 1710.9 | 1197.8 | 401.2  | 205.0  | 175.9  | 167.2  | 167.2  | 151.2  | 130.8  | 123.6  | 125.0  |
| 62.5° | 1664.4 | 1152.7 | 363.4  | 175.9  | 159.9  | 155.5  | 154.1  | 136.6  | 120.7  | 113.4  | 114.8  |
| 65°   | 1524.9 | 1039.3 | 308.2  | 149.7  | 143.9  | 142.5  | 142.5  | 126.5  | 111.9  | 103.2  | 104.7  |
| 67.5° | 1312.6 | 872.2  | 251.5  | 126.5  | 127.9  | 130.8  | 130.8  | 116.3  | 101.8  | 93.0   | 94.5   |
| 70°   | 1052.4 | 681.8  | 200.6  | 109.0  | 110.5  | 114.8  | 117.7  | 104.7  | 91.6   | 82.9   | 82.9   |
| 72.5° | 792.2  | 517.5  | 161.4  | 91.6   | 98.8   | 98.8   | 103.2  | 93.0   | 79.9   | 71.2   | 72.7   |
| 75°   | 574.2  | 370.7  | 127.9  | 77.0   | 85.8   | 84.3   | 84.3   | 78.5   | 68.3   | 62.5   | 62.5   |
| 77.5° | 271.8  | 194.8  | 101.8  | 55.2   | 66.9   | 65.4   | 66.9   | 62.5   | 58.1   | 52.3   | 53.8   |
| 80°   | 133.7  | 95.9   | 65.4   | 39.2   | 46.5   | 48.0   | 52.3   | 49.4   | 48.0   | 43.6   | 43.6   |
| 82.5° | 64.0   | 37.8   | 30.5   | 27.6   | 32.0   | 33.4   | 36.3   | 36.3   | 37.8   | 34.9   | 34.9   |
| 85°   | 17.4   | 10.2   | 13.1   | 17.4   | 20.4   | 21.8   | 24.7   | 26.2   | 26.2   | 24.7   | 26.2   |
| 87.5° | 4.4    | 4.4    | 5.8    | 8.7    | 10.2   | 11.6   | 13.1   | 13.1   | 5.8    | 0.0    | 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)