

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: P1210187

Luminaire Tested: **ARCH2-40-750-U-T3RE**

Issue Date: 11/5/2025

### Test Information

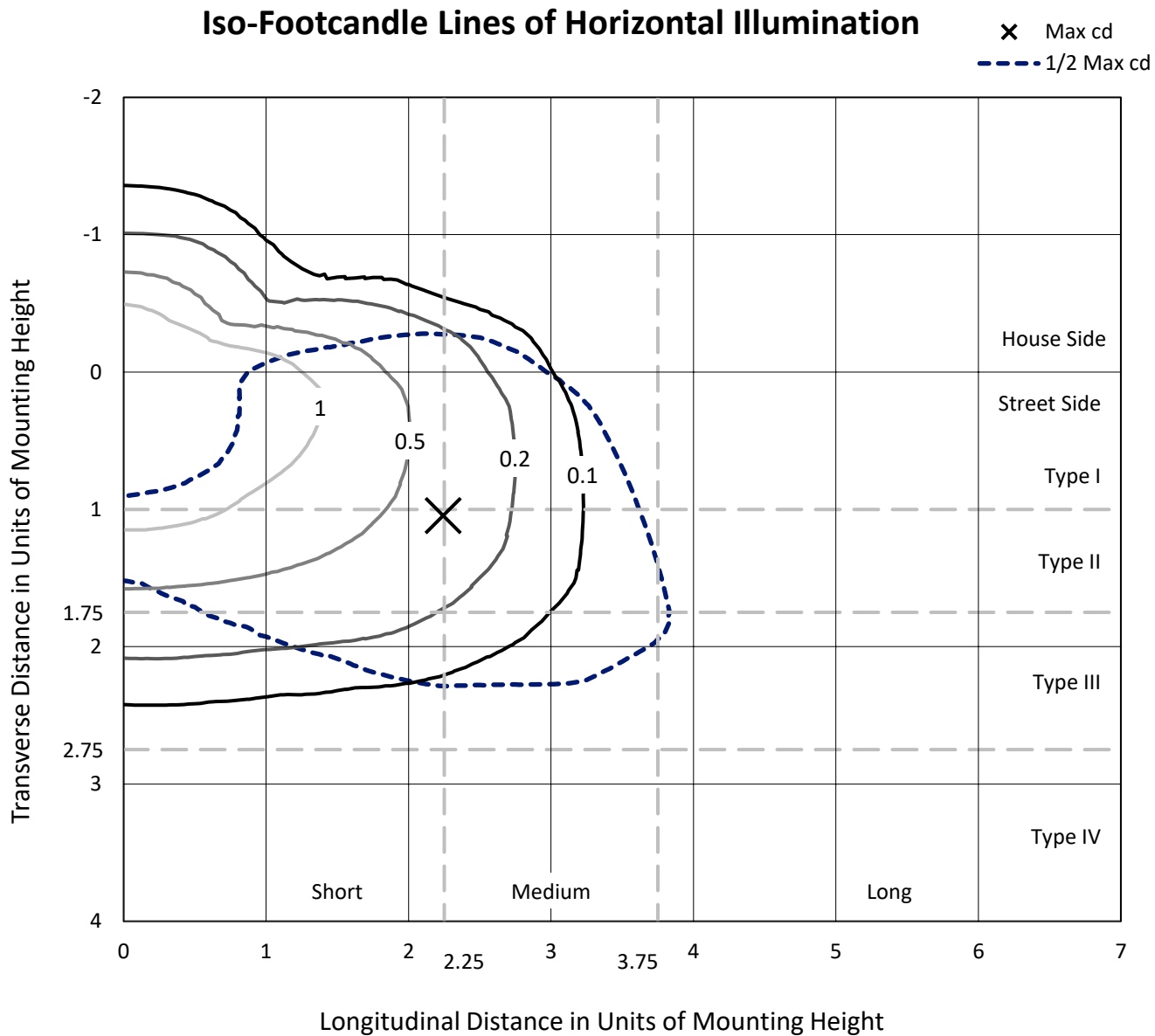
Test Method: LM-79-08  
Report Number: P1210187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-40-750-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6832 lumens  
Efficiency: N/A  
Efficacy: 154.9 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): 44.1  
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

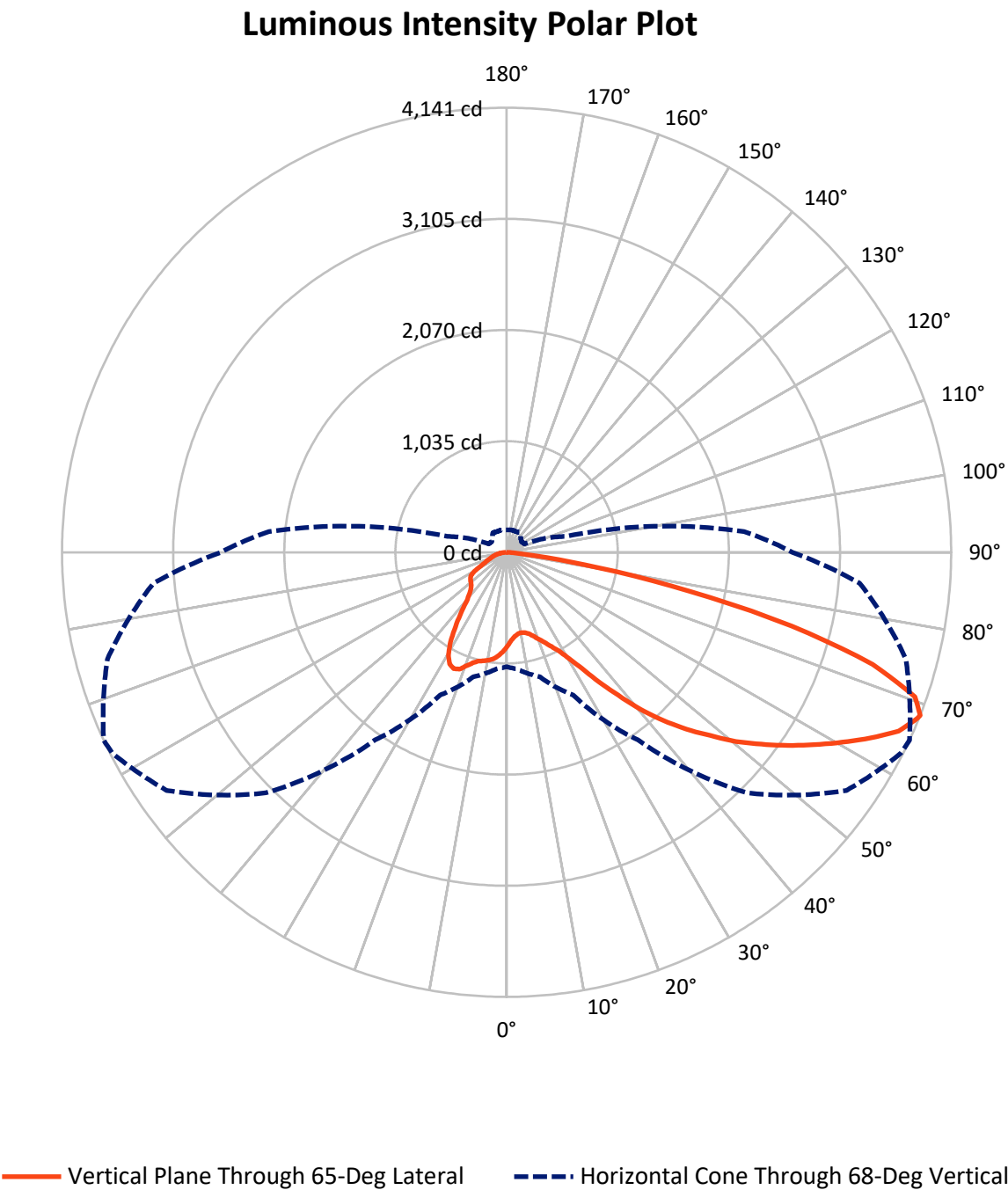


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Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
Type III - Short - N/A

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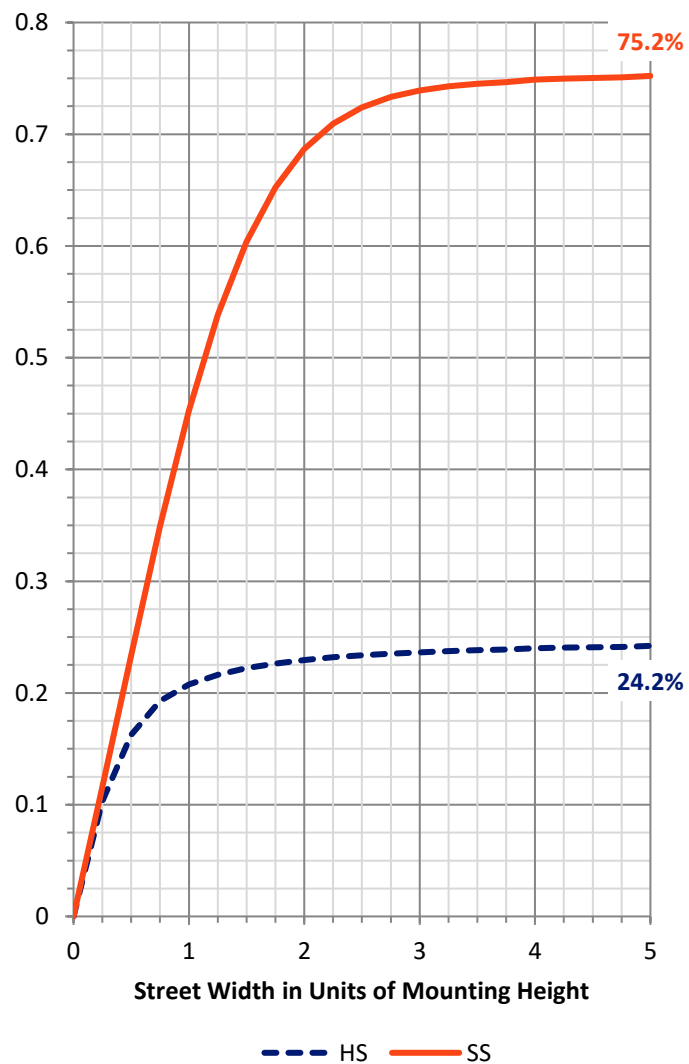
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1675.0   | 0.0    | 1675.0 |
|                    | % Fixture | 24.5     | 0.0    | 24.5   |
| <b>Street Side</b> | Lumens    | 5157.0   | 0.0    | 5157.0 |
|                    | % Fixture | 75.5     | 0.0    | 75.5   |
| <b>Total</b>       | Lumens    | 6832.0   | 0.0    | 6832.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.4   | 1.2       |
| 10°-20°   | 271.7  | 4.0       |
| 20°-30°   | 491.7  | 7.2       |
| 30°-40°   | 773.5  | 11.3      |
| 40°-50°   | 1152.0 | 16.9      |
| 50°-60°   | 1511.2 | 22.1      |
| 60°-70°   | 1652.6 | 24.2      |
| 70°-80°   | 817.8  | 12.0      |
| 80°-90°   | 78.0   | 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°    | 6832.0 | 100.0     |
| 0°-180°   | 6832.0 | 100.0     |

**Coefficient of Utilization**



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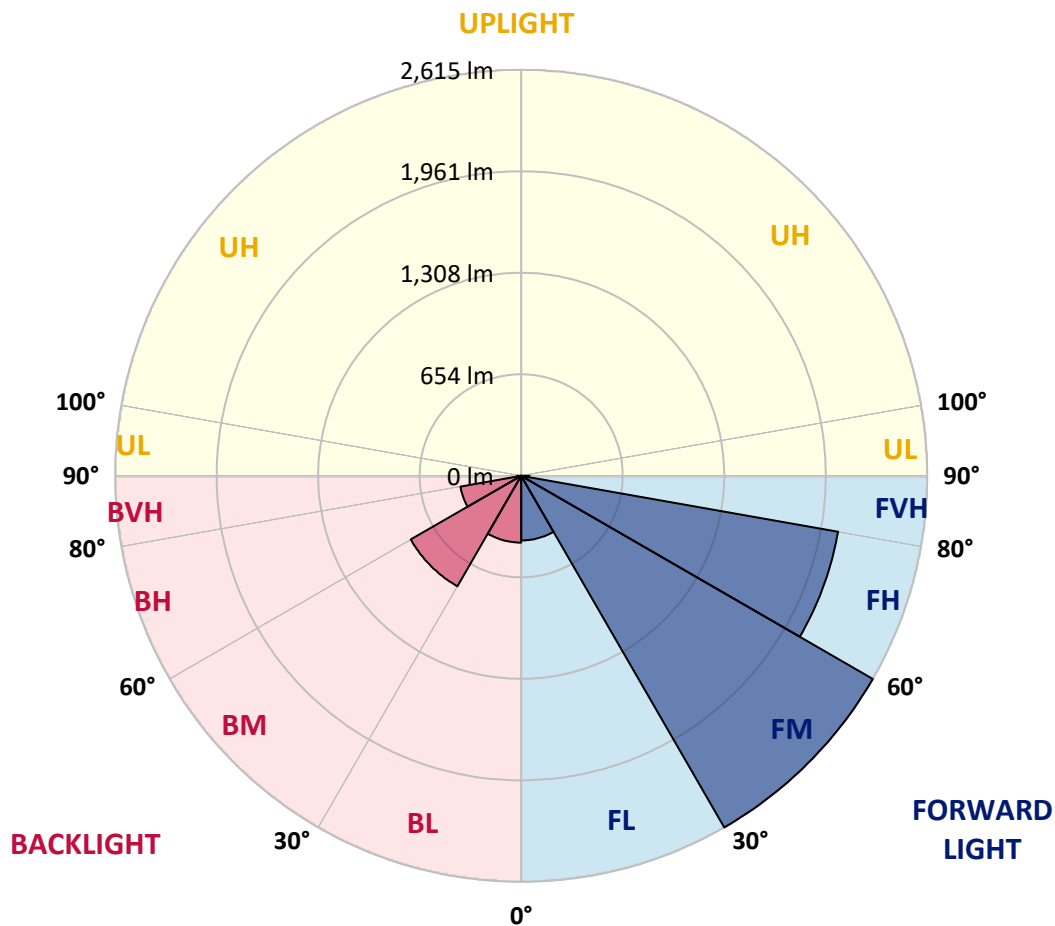
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 416.5  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 2615.2 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 2072.8 | 30.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 52.5   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 430.3  | 6.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 821.6  | 12.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 397.6  | 5.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 25.5   | 0.4       |                         |      | 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°    | 45°    | 55°    | 63°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  |
| 2.5°  | 762.0  | 760.3  | 764.7  | 769.1  | 778.8  | 790.2  | 806.1  | 819.3  | 821.1  | 845.7  | 865.1  |
| 5°    | 717.1  | 714.5  | 718.9  | 724.2  | 728.6  | 742.7  | 759.4  | 778.8  | 786.7  | 822.8  | 864.2  |
| 7.5°  | 721.5  | 720.6  | 722.4  | 720.6  | 720.6  | 726.8  | 738.3  | 757.6  | 766.4  | 809.6  | 868.6  |
| 10°   | 747.1  | 748.8  | 749.7  | 744.4  | 739.1  | 736.5  | 740.0  | 753.2  | 759.4  | 810.5  | 888.0  |
| 12.5° | 789.4  | 792.0  | 792.9  | 783.2  | 776.1  | 764.7  | 758.5  | 763.8  | 768.2  | 819.3  | 915.3  |
| 15°   | 846.6  | 848.4  | 842.2  | 836.0  | 818.4  | 804.3  | 789.4  | 784.9  | 786.7  | 837.8  | 946.2  |
| 17.5° | 913.6  | 910.9  | 910.9  | 896.0  | 873.0  | 851.0  | 826.4  | 822.8  | 822.8  | 867.8  | 990.2  |
| 20°   | 986.7  | 989.3  | 981.4  | 961.1  | 938.2  | 903.9  | 879.2  | 863.4  | 865.1  | 902.1  | 1044.0 |
| 22.5° | 1092.4 | 1096.8 | 1075.7 | 1046.6 | 1011.4 | 971.7  | 936.5  | 910.9  | 911.8  | 947.0  | 1099.5 |
| 25°   | 1206.1 | 1207.8 | 1194.6 | 1155.8 | 1108.3 | 1051.9 | 1005.2 | 972.6  | 971.7  | 997.3  | 1170.8 |
| 27.5° | 1322.3 | 1330.3 | 1303.8 | 1266.8 | 1222.8 | 1152.3 | 1090.6 | 1046.6 | 1039.6 | 1073.9 | 1259.8 |
| 30°   | 1442.2 | 1451.8 | 1426.3 | 1390.2 | 1335.6 | 1275.7 | 1202.5 | 1151.4 | 1147.0 | 1192.8 | 1378.7 |
| 32.5° | 1562.9 | 1565.5 | 1545.2 | 1515.3 | 1465.9 | 1409.6 | 1350.5 | 1294.2 | 1289.7 | 1364.6 | 1532.9 |
| 35°   | 1661.5 | 1669.4 | 1655.4 | 1648.3 | 1612.2 | 1560.2 | 1502.9 | 1470.3 | 1481.8 | 1577.8 | 1732.9 |
| 37.5° | 1780.5 | 1788.4 | 1772.5 | 1770.8 | 1759.3 | 1714.4 | 1674.7 | 1677.4 | 1688.8 | 1819.2 | 1943.4 |
| 40°   | 1952.2 | 1961.1 | 1920.5 | 1902.9 | 1902.9 | 1858.9 | 1845.6 | 1908.2 | 1923.2 | 2057.1 | 2162.8 |
| 42.5° | 2097.6 | 2111.7 | 2087.9 | 2076.5 | 2042.1 | 2011.3 | 2027.1 | 2115.2 | 2140.8 | 2284.4 | 2354.0 |
| 45°   | 2168.1 | 2178.7 | 2206.8 | 2240.3 | 2206.8 | 2153.1 | 2213.0 | 2312.6 | 2348.7 | 2494.0 | 2545.1 |
| 47.5° | 2206.0 | 2215.7 | 2248.2 | 2338.1 | 2361.0 | 2316.1 | 2400.7 | 2524.9 | 2549.5 | 2702.0 | 2727.5 |
| 50°   | 2211.2 | 2242.1 | 2284.4 | 2374.2 | 2479.1 | 2485.2 | 2589.2 | 2740.7 | 2769.8 | 2906.3 | 2887.8 |
| 52.5° | 2168.1 | 2180.4 | 2267.6 | 2419.2 | 2535.4 | 2641.2 | 2794.5 | 2947.7 | 2968.9 | 3098.4 | 3029.7 |
| 55°   | 2097.6 | 2115.2 | 2202.4 | 2408.6 | 2590.1 | 2789.2 | 3003.2 | 3151.2 | 3175.0 | 3285.2 | 3160.9 |
| 57.5° | 2034.2 | 2043.0 | 2136.4 | 2377.8 | 2644.7 | 2937.2 | 3189.1 | 3363.6 | 3379.4 | 3449.0 | 3257.8 |
| 60°   | 1963.7 | 1973.4 | 2066.8 | 2311.7 | 2685.2 | 3049.1 | 3382.9 | 3577.6 | 3591.7 | 3621.7 | 3370.6 |
| 62.5° | 1781.3 | 1806.9 | 1924.1 | 2202.4 | 2674.6 | 3176.8 | 3590.0 | 3789.1 | 3806.7 | 3774.1 | 3459.6 |
| 65°   | 1446.6 | 1482.7 | 1626.3 | 1954.9 | 2576.0 | 3259.6 | 3759.1 | 3983.8 | 4013.7 | 3888.6 | 3483.4 |
| 67.5° | 1123.2 | 1148.8 | 1264.2 | 1551.4 | 2229.7 | 3218.2 | 3868.4 | 4117.7 | 4126.5 | 3870.1 | 3351.2 |
| 68°   | 1065.1 | 1090.6 | 1200.8 | 1466.8 | 2133.7 | 3168.9 | 3865.7 | 4121.2 | 4140.6 | 3849.9 | 3300.1 |
| 70°   | 814.9  | 844.0  | 948.8  | 1162.0 | 1719.7 | 2855.2 | 3704.5 | 4036.6 | 4034.0 | 3605.0 | 2983.0 |
| 72.5° | 509.2  | 525.9  | 598.2  | 733.0  | 1137.3 | 2172.5 | 3144.2 | 3560.0 | 3567.1 | 2938.9 | 2287.9 |
| 75°   | 323.3  | 323.3  | 319.8  | 355.0  | 583.2  | 1237.8 | 2337.2 | 2740.7 | 2746.0 | 2058.0 | 1442.2 |
| 77.5° | 281.0  | 273.1  | 235.2  | 199.1  | 232.6  | 481.0  | 1383.1 | 1769.9 | 1740.8 | 1108.3 | 684.5  |
| 80°   | 237.0  | 223.8  | 192.9  | 160.3  | 149.8  | 150.6  | 531.2  | 898.6  | 859.8  | 399.1  | 227.3  |
| 82.5° | 170.9  | 159.5  | 145.4  | 126.0  | 115.4  | 89.9   | 111.0  | 259.9  | 253.7  | 115.4  | 74.0   |
| 85°   | 92.5   | 83.7   | 81.9   | 82.8   | 69.6   | 55.5   | 46.7   | 57.3   | 57.3   | 50.2   | 42.3   |
| 87.5° | 32.6   | 23.8   | 28.2   | 31.7   | 27.3   | 22.9   | 18.5   | 22.0   | 22.9   | 22.0   | 20.3   |
| 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°    | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  | 873.0  |
| 2.5°  | 876.6  | 885.4  | 906.5  | 925.0  | 938.2  | 949.7  | 955.9  | 958.5  | 964.7  | 965.5  | 963.8  |
| 5°    | 883.6  | 906.5  | 938.2  | 965.5  | 980.5  | 986.7  | 988.5  | 989.3  | 986.7  | 988.5  | 986.7  |
| 7.5°  | 902.1  | 931.2  | 976.1  | 999.9  | 1002.5 | 992.9  | 993.7  | 990.2  | 993.7  | 997.3  | 997.3  |
| 10°   | 930.3  | 967.3  | 1009.6 | 1018.4 | 1007.0 | 1001.7 | 1012.2 | 1033.4 | 1040.4 | 1050.1 | 1050.1 |
| 12.5° | 967.3  | 1011.4 | 1041.3 | 1033.4 | 1022.8 | 1040.4 | 1071.3 | 1092.4 | 1099.5 | 1103.0 | 1100.3 |
| 15°   | 1009.6 | 1057.2 | 1072.1 | 1045.7 | 1065.1 | 1103.0 | 1113.6 | 1101.2 | 1083.6 | 1075.7 | 1080.1 |
| 17.5° | 1063.3 | 1103.0 | 1094.2 | 1076.6 | 1120.6 | 1125.9 | 1091.5 | 1051.9 | 1023.7 | 1013.1 | 1020.2 |
| 20°   | 1119.7 | 1154.1 | 1113.6 | 1121.5 | 1148.8 | 1092.4 | 1027.2 | 976.1  | 951.5  | 947.0  | 954.1  |
| 22.5° | 1179.6 | 1201.7 | 1132.9 | 1173.5 | 1132.9 | 1018.4 | 940.0  | 913.6  | 907.4  | 914.5  | 920.6  |
| 25°   | 1247.5 | 1244.8 | 1166.4 | 1189.3 | 1073.9 | 927.7  | 881.0  | 879.2  | 879.2  | 883.6  | 892.4  |
| 27.5° | 1324.1 | 1282.7 | 1199.9 | 1168.2 | 971.7  | 852.8  | 844.0  | 844.9  | 842.2  | 843.1  | 847.5  |
| 30°   | 1413.1 | 1333.8 | 1236.9 | 1098.6 | 857.2  | 796.4  | 792.9  | 790.2  | 784.1  | 782.3  | 784.1  |
| 32.5° | 1525.0 | 1387.5 | 1274.8 | 984.0  | 756.8  | 738.3  | 736.5  | 722.4  | 707.4  | 705.7  | 711.8  |
| 35°   | 1666.8 | 1485.3 | 1294.2 | 840.5  | 673.9  | 673.1  | 666.9  | 644.9  | 625.5  | 625.5  | 621.1  |
| 37.5° | 1828.9 | 1611.3 | 1302.1 | 700.4  | 605.2  | 609.6  | 592.0  | 563.8  | 548.8  | 540.0  | 542.7  |
| 40°   | 1994.5 | 1754.9 | 1301.2 | 577.9  | 545.3  | 546.2  | 533.0  | 498.6  | 461.6  | 439.6  | 444.9  |
| 42.5° | 2154.0 | 1885.3 | 1278.3 | 512.7  | 496.9  | 494.2  | 483.7  | 437.0  | 406.1  | 388.5  | 389.4  |
| 45°   | 2281.7 | 2020.1 | 1243.1 | 474.0  | 452.8  | 457.2  | 433.4  | 405.2  | 377.1  | 361.2  | 360.3  |
| 47.5° | 2409.5 | 2122.3 | 1186.7 | 450.2  | 420.2  | 412.3  | 402.6  | 383.2  | 362.1  | 344.5  | 345.3  |
| 50°   | 2525.8 | 2209.5 | 1133.8 | 434.3  | 390.3  | 370.0  | 371.8  | 360.3  | 341.8  | 326.0  | 325.1  |
| 52.5° | 2607.7 | 2266.7 | 1104.7 | 425.5  | 354.2  | 332.1  | 338.3  | 332.1  | 314.5  | 303.1  | 302.2  |
| 55°   | 2689.6 | 2310.8 | 1114.4 | 414.1  | 314.5  | 296.9  | 307.5  | 305.7  | 296.0  | 292.5  | 293.4  |
| 57.5° | 2755.7 | 2344.3 | 1148.8 | 392.9  | 276.6  | 266.1  | 283.7  | 278.4  | 271.3  | 272.2  | 272.2  |
| 60°   | 2820.0 | 2387.4 | 1189.3 | 344.5  | 244.0  | 244.9  | 261.6  | 252.0  | 247.6  | 255.5  | 256.4  |
| 62.5° | 2887.0 | 2434.1 | 1155.8 | 274.0  | 215.8  | 222.0  | 241.4  | 233.5  | 235.2  | 246.7  | 250.2  |
| 65°   | 2879.0 | 2429.7 | 941.8  | 224.6  | 191.2  | 203.5  | 232.6  | 229.9  | 230.8  | 235.2  | 237.0  |
| 67.5° | 2716.9 | 2274.7 | 647.5  | 191.2  | 173.6  | 188.5  | 225.5  | 215.0  | 215.8  | 213.2  | 214.1  |
| 68°   | 2662.3 | 2220.1 | 570.9  | 185.9  | 170.0  | 185.0  | 222.0  | 212.3  | 213.2  | 210.6  | 209.7  |
| 70°   | 2364.5 | 1901.1 | 361.2  | 163.9  | 157.7  | 175.3  | 204.4  | 200.9  | 200.0  | 198.2  | 198.2  |
| 72.5° | 1802.5 | 1403.4 | 190.3  | 141.8  | 143.6  | 160.3  | 182.4  | 189.4  | 185.0  | 185.9  | 191.2  |
| 75°   | 1193.7 | 844.0  | 132.1  | 121.6  | 126.0  | 137.4  | 162.1  | 176.2  | 171.8  | 174.4  | 171.8  |
| 77.5° | 631.7  | 454.6  | 105.7  | 103.1  | 103.1  | 111.0  | 133.9  | 155.9  | 155.9  | 154.2  | 151.5  |
| 80°   | 207.0  | 160.3  | 84.6   | 81.0   | 82.8   | 87.2   | 107.5  | 127.7  | 130.4  | 126.9  | 125.1  |
| 82.5° | 69.6   | 74.0   | 63.4   | 59.0   | 60.8   | 64.3   | 81.0   | 97.8   | 98.7   | 91.6   | 89.9   |
| 85°   | 43.2   | 49.3   | 39.6   | 38.8   | 38.8   | 39.6   | 49.3   | 53.7   | 49.3   | 44.0   | 45.8   |
| 87.5° | 20.3   | 24.7   | 18.5   | 15.9   | 13.2   | 11.5   | 8.8    | 3.5    | 3.5    | 1.8    | 1.8    |
| 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)