

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: P691518

Luminaire Tested: **CRTK2-C016-D-U-T3-7040-U0**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C016-D-U-T3-7040-U0  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND U0 SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

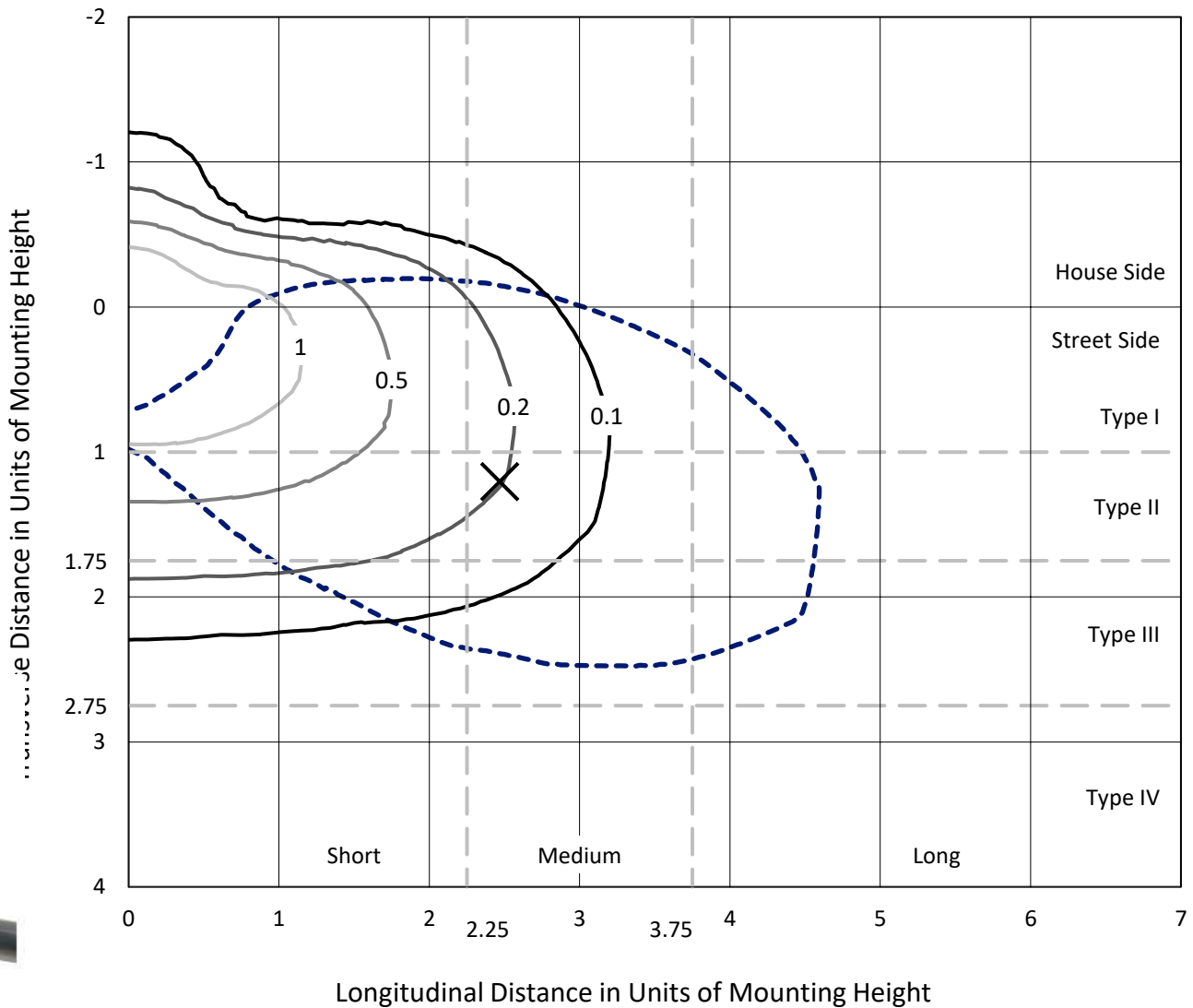
Lumens per Lamp: N/A  
Luminaire Lumens: 5758 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 41.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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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## Iso-Footcandle Lines of Horizontal Illumination

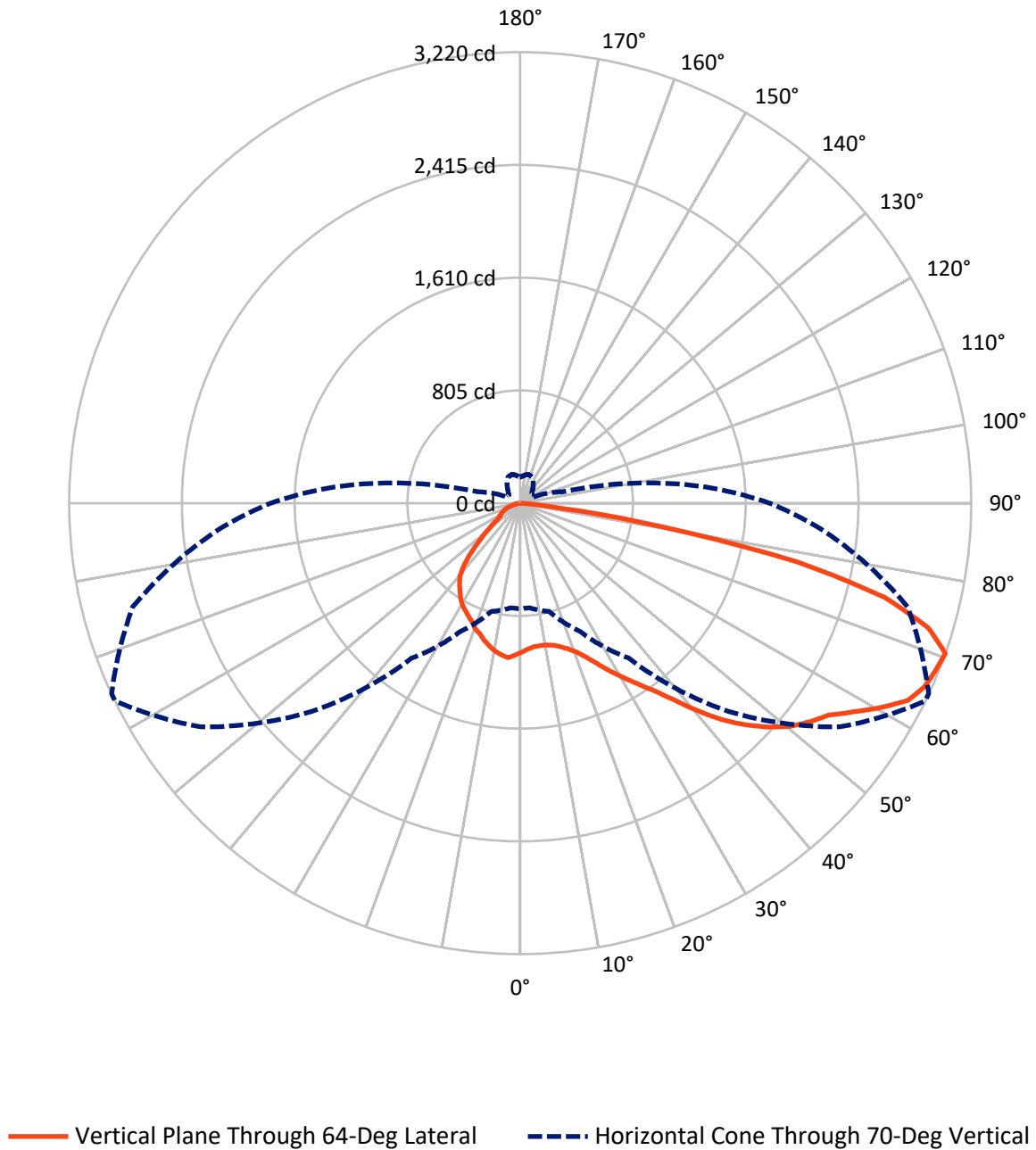
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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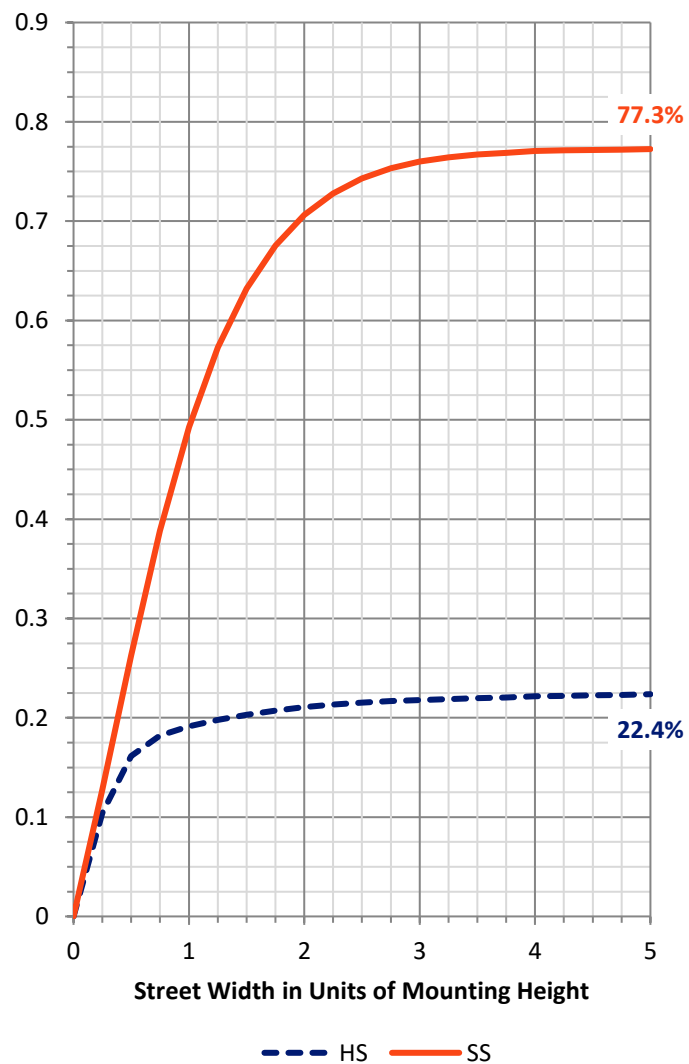
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1308.0   | 0.0    | 1308.0 |
|                    | % Fixture | 22.7     | 0.0    | 22.7   |
| <b>Street Side</b> | Lumens    | 4450.0   | 0.0    | 4450.0 |
|                    | % Fixture | 77.3     | 0.0    | 77.3   |
| <b>Total</b>       | Lumens    | 5758.0   | 0.0    | 5758.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.4  | 1.8       |
| 10°-20°   | 300.3  | 5.2       |
| 20°-30°   | 498.4  | 8.7       |
| 30°-40°   | 713.0  | 12.4      |
| 40°-50°   | 952.1  | 16.5      |
| 50°-60°   | 1150.6 | 20.0      |
| 60°-70°   | 1224.5 | 21.3      |
| 70°-80°   | 752.2  | 13.1      |
| 80°-90°   | 64.4   | 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°    | 5758.0 | 100.0     |
| 0°-180°   | 5758.0 | 100.0     |

**Coefficient of Utilization**



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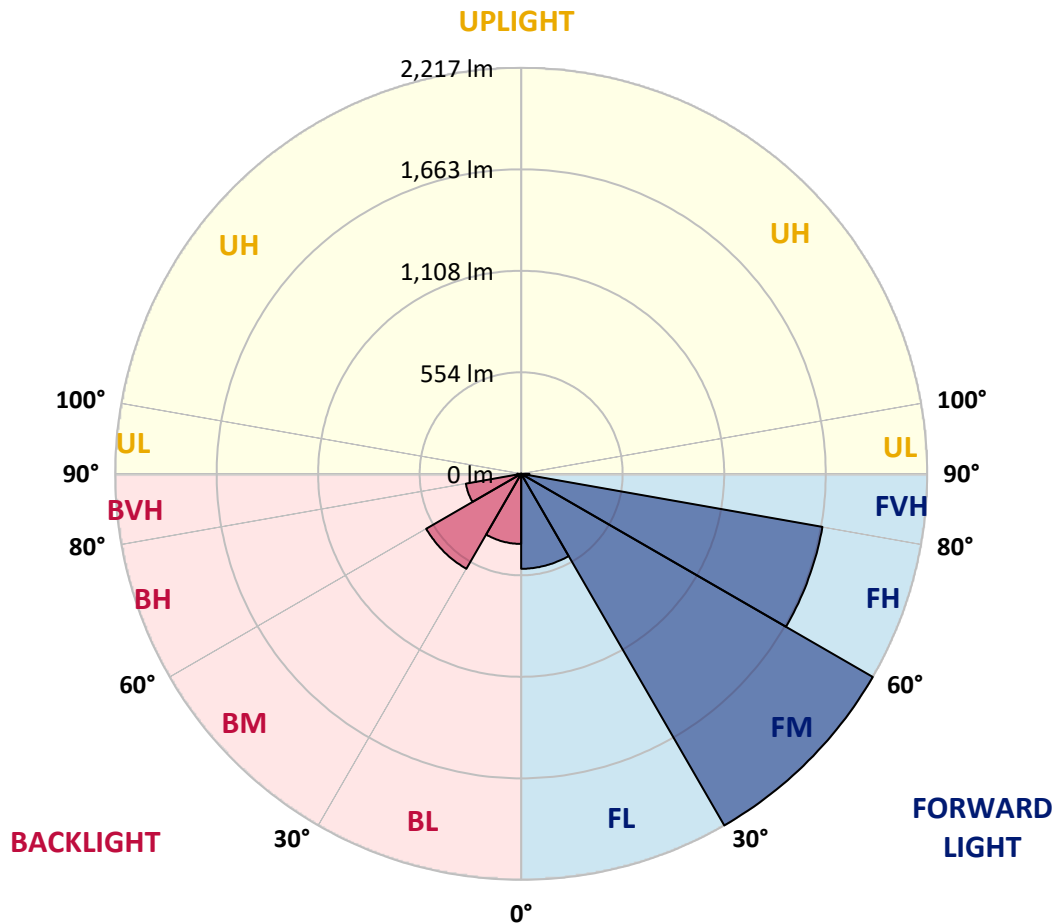
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 518.5  | 9.0       |                         |      |         |
| FM   | (30°-60°)   | 2216.7 | 38.5      |                         |      |         |
| FH   | (60°-80°)   | 1670.0 | 29.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 44.7   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 382.7  | 6.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 598.9  | 10.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 306.8  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 19.7   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 |
| 2.5°  | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1041.5 | 1043.4 | 1041.5 | 1043.4 | 1043.4 | 1047.3 | 1053.2 |
| 5°    | 1057.1 | 1057.1 | 1053.2 | 1045.4 | 1039.5 | 1031.7 | 1027.8 | 1029.7 | 1029.7 | 1039.5 | 1055.2 |
| 7.5°  | 1063.0 | 1063.0 | 1059.1 | 1059.1 | 1053.2 | 1035.6 | 1029.7 | 1027.8 | 1029.7 | 1033.6 | 1055.2 |
| 10°   | 1092.4 | 1090.4 | 1080.6 | 1068.9 | 1061.0 | 1045.4 | 1031.7 | 1029.7 | 1031.7 | 1037.5 | 1061.0 |
| 12.5° | 1123.7 | 1123.7 | 1119.8 | 1110.0 | 1088.4 | 1072.8 | 1049.3 | 1041.5 | 1039.5 | 1045.4 | 1059.1 |
| 15°   | 1186.3 | 1178.5 | 1162.8 | 1149.1 | 1133.5 | 1108.0 | 1076.7 | 1063.0 | 1059.1 | 1066.9 | 1061.0 |
| 17.5° | 1223.5 | 1217.7 | 1219.6 | 1198.1 | 1184.4 | 1149.1 | 1117.8 | 1092.4 | 1090.4 | 1098.2 | 1072.8 |
| 20°   | 1264.6 | 1262.7 | 1266.6 | 1264.6 | 1243.1 | 1211.8 | 1162.8 | 1131.5 | 1127.6 | 1129.6 | 1090.4 |
| 22.5° | 1327.3 | 1327.3 | 1325.3 | 1325.3 | 1313.6 | 1276.4 | 1221.6 | 1190.2 | 1184.4 | 1170.7 | 1119.8 |
| 25°   | 1395.8 | 1395.8 | 1395.8 | 1399.7 | 1399.7 | 1356.6 | 1301.8 | 1266.6 | 1262.7 | 1243.1 | 1168.7 |
| 27.5° | 1460.4 | 1464.3 | 1466.3 | 1468.2 | 1474.1 | 1454.5 | 1393.8 | 1352.7 | 1350.8 | 1325.3 | 1233.3 |
| 30°   | 1511.3 | 1513.3 | 1530.9 | 1534.8 | 1546.5 | 1540.7 | 1481.9 | 1442.8 | 1446.7 | 1413.4 | 1305.7 |
| 32.5° | 1556.3 | 1558.3 | 1583.7 | 1597.4 | 1611.1 | 1613.1 | 1564.2 | 1536.7 | 1536.7 | 1507.4 | 1393.8 |
| 35°   | 1599.4 | 1601.3 | 1632.7 | 1666.0 | 1693.4 | 1685.5 | 1658.1 | 1642.5 | 1648.3 | 1638.5 | 1515.2 |
| 37.5° | 1636.6 | 1644.4 | 1685.5 | 1734.5 | 1765.8 | 1771.7 | 1759.9 | 1781.5 | 1793.2 | 1808.9 | 1679.7 |
| 40°   | 1671.8 | 1675.7 | 1714.9 | 1765.8 | 1818.6 | 1846.1 | 1859.8 | 1947.9 | 1959.6 | 1971.3 | 1773.6 |
| 42.5° | 1638.5 | 1646.4 | 1730.6 | 1806.9 | 1873.5 | 1920.4 | 1985.0 | 2114.3 | 2139.7 | 2075.1 | 1900.9 |
| 45°   | 1599.4 | 1609.2 | 1693.4 | 1822.6 | 1916.5 | 2002.7 | 2122.1 | 2259.1 | 2278.7 | 2180.8 | 1969.4 |
| 47.5° | 1566.1 | 1577.9 | 1664.0 | 1808.9 | 1961.6 | 2114.3 | 2233.7 | 2388.3 | 2400.1 | 2270.9 | 2063.4 |
| 50°   | 1528.9 | 1538.7 | 1630.7 | 1791.2 | 1985.0 | 2216.0 | 2351.1 | 2505.8 | 2509.7 | 2345.3 | 2112.3 |
| 52.5° | 1480.0 | 1489.8 | 1583.7 | 1763.8 | 2002.7 | 2284.6 | 2449.0 | 2591.9 | 2576.3 | 2441.2 | 2169.1 |
| 55°   | 1417.3 | 1431.0 | 1532.8 | 1726.6 | 2012.5 | 2325.7 | 2515.6 | 2672.2 | 2664.3 | 2554.7 | 2243.5 |
| 57.5° | 1350.8 | 1364.5 | 1468.2 | 1675.7 | 2002.7 | 2351.1 | 2584.1 | 2811.2 | 2809.2 | 2646.7 | 2298.3 |
| 60°   | 1276.4 | 1288.1 | 1376.2 | 1609.2 | 1949.8 | 2392.2 | 2734.8 | 2961.9 | 2977.6 | 2750.5 | 2319.8 |
| 62.5° | 1178.5 | 1180.5 | 1268.6 | 1513.3 | 1881.3 | 2421.6 | 2842.5 | 3104.8 | 3095.0 | 2819.0 | 2323.7 |
| 65°   | 1049.3 | 1055.2 | 1133.5 | 1380.1 | 1769.7 | 2398.1 | 2869.9 | 3169.4 | 3169.4 | 2869.9 | 2319.8 |
| 67.5° | 924.0  | 922.0  | 988.6  | 1213.7 | 1597.4 | 2294.4 | 2846.4 | 3196.8 | 3210.5 | 2903.2 | 2268.9 |
| 70°   | 753.7  | 749.8  | 800.7  | 1010.1 | 1350.8 | 2102.5 | 2785.7 | 3220.3 | 3218.4 | 2864.0 | 2161.2 |
| 72.5° | 557.9  | 556.0  | 591.2  | 765.4  | 1033.6 | 1799.1 | 2605.6 | 3048.0 | 3028.5 | 2676.1 | 1951.8 |
| 75°   | 309.3  | 293.6  | 291.7  | 473.7  | 601.0  | 1260.7 | 2214.1 | 2687.8 | 2695.7 | 2364.8 | 1634.6 |
| 77.5° | 45.0   | 47.0   | 48.9   | 86.1   | 103.8  | 471.8  | 1438.9 | 2026.2 | 2022.2 | 1824.5 | 1192.2 |
| 80°   | 31.3   | 33.3   | 35.2   | 43.1   | 48.9   | 111.6  | 497.2  | 1021.9 | 1080.6 | 959.2  | 550.1  |
| 82.5° | 23.5   | 23.5   | 25.4   | 29.4   | 27.4   | 50.9   | 154.7  | 283.9  | 293.6  | 266.2  | 162.5  |
| 85°   | 15.7   | 15.7   | 13.7   | 15.7   | 9.8    | 13.7   | 35.2   | 52.9   | 56.8   | 54.8   | 45.0   |
| 87.5° | 7.8    | 7.8    | 5.9    | 5.9    | 3.9    | 3.9    | 3.9    | 2.0    | 3.9    | 2.0    | 3.9    |
| 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°    | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 | 1065.0 |
| 2.5°  | 1059.1 | 1063.0 | 1074.7 | 1084.5 | 1096.3 | 1110.0 | 1117.8 | 1125.6 | 1133.5 | 1129.6 | 1135.4 |
| 5°    | 1063.0 | 1070.8 | 1088.4 | 1106.1 | 1115.9 | 1117.8 | 1119.8 | 1125.6 | 1137.4 | 1137.4 | 1147.2 |
| 7.5°  | 1066.9 | 1080.6 | 1080.6 | 1090.4 | 1104.1 | 1108.0 | 1110.0 | 1113.9 | 1119.8 | 1121.7 | 1119.8 |
| 10°   | 1066.9 | 1061.0 | 1070.8 | 1072.8 | 1066.9 | 1076.7 | 1082.6 | 1080.6 | 1086.5 | 1088.4 | 1088.4 |
| 12.5° | 1055.2 | 1053.2 | 1045.4 | 1045.4 | 1043.4 | 1027.8 | 1027.8 | 1043.4 | 1043.4 | 1053.2 | 1055.2 |
| 15°   | 1055.2 | 1039.5 | 1029.7 | 1016.0 | 1002.3 | 996.4  | 988.6  | 976.9  | 980.8  | 994.5  | 998.4  |
| 17.5° | 1053.2 | 1035.6 | 1006.2 | 978.8  | 969.0  | 945.5  | 937.7  | 937.7  | 935.8  | 943.6  | 945.5  |
| 20°   | 1061.0 | 1035.6 | 990.6  | 959.2  | 906.4  | 898.6  | 882.9  | 884.9  | 886.8  | 875.1  | 869.2  |
| 22.5° | 1082.6 | 1051.3 | 978.8  | 918.1  | 877.0  | 841.8  | 812.4  | 792.8  | 790.9  | 785.0  | 790.9  |
| 25°   | 1115.9 | 1078.7 | 980.8  | 894.6  | 828.1  | 777.2  | 757.6  | 710.6  | 689.1  | 691.0  | 702.8  |
| 27.5° | 1176.5 | 1111.9 | 990.6  | 869.2  | 788.9  | 716.5  | 653.9  | 624.5  | 601.0  | 601.0  | 604.9  |
| 30°   | 1233.3 | 1162.8 | 986.7  | 847.7  | 728.2  | 638.2  | 557.9  | 510.9  | 503.1  | 495.3  | 493.3  |
| 32.5° | 1339.0 | 1227.4 | 1025.8 | 816.3  | 671.5  | 538.4  | 458.1  | 393.5  | 399.4  | 401.3  | 405.2  |
| 35°   | 1444.7 | 1331.2 | 1033.6 | 777.2  | 589.2  | 438.5  | 354.3  | 319.1  | 334.8  | 338.7  | 342.6  |
| 37.5° | 1585.7 | 1460.4 | 1086.5 | 741.9  | 505.1  | 336.7  | 281.9  | 266.2  | 281.9  | 281.9  | 283.9  |
| 40°   | 1662.0 | 1521.1 | 1129.6 | 706.7  | 395.4  | 248.6  | 221.2  | 209.5  | 229.0  | 244.7  | 248.6  |
| 42.5° | 1769.7 | 1599.4 | 1168.7 | 636.2  | 279.9  | 186.0  | 170.3  | 193.8  | 225.1  | 240.8  | 242.7  |
| 45°   | 1824.5 | 1638.5 | 1155.0 | 542.3  | 184.0  | 150.7  | 166.4  | 195.8  | 227.1  | 242.7  | 244.7  |
| 47.5° | 1898.9 | 1693.4 | 1127.6 | 432.6  | 146.8  | 148.8  | 168.4  | 201.6  | 233.0  | 246.7  | 248.6  |
| 50°   | 1971.3 | 1750.1 | 1057.1 | 344.5  | 141.0  | 148.8  | 172.3  | 203.6  | 231.0  | 240.8  | 238.8  |
| 52.5° | 2012.5 | 1803.0 | 967.1  | 262.3  | 141.0  | 150.7  | 176.2  | 207.5  | 229.0  | 231.0  | 231.0  |
| 55°   | 2049.6 | 1808.9 | 892.7  | 203.6  | 139.0  | 152.7  | 180.1  | 211.4  | 231.0  | 231.0  | 227.1  |
| 57.5° | 2073.1 | 1785.4 | 835.9  | 176.2  | 139.0  | 152.7  | 180.1  | 211.4  | 240.8  | 246.7  | 240.8  |
| 60°   | 2063.4 | 1740.3 | 796.8  | 164.4  | 135.1  | 150.7  | 178.1  | 217.3  | 295.6  | 309.3  | 297.6  |
| 62.5° | 2039.9 | 1714.9 | 712.6  | 150.7  | 129.2  | 144.9  | 174.2  | 234.9  | 317.1  | 319.1  | 309.3  |
| 65°   | 2018.3 | 1630.7 | 610.8  | 135.1  | 121.4  | 139.0  | 168.4  | 238.8  | 268.2  | 258.4  | 256.5  |
| 67.5° | 1920.4 | 1521.1 | 465.9  | 119.4  | 109.6  | 131.2  | 162.5  | 219.3  | 238.8  | 227.1  | 223.2  |
| 70°   | 1781.5 | 1329.2 | 311.3  | 101.8  | 97.9   | 121.4  | 162.5  | 205.6  | 213.4  | 193.8  | 186.0  |
| 72.5° | 1527.0 | 1100.2 | 170.3  | 82.2   | 82.2   | 111.6  | 146.8  | 191.8  | 197.7  | 174.2  | 160.5  |
| 75°   | 1243.1 | 796.8  | 109.6  | 62.6   | 62.6   | 94.0   | 133.1  | 182.1  | 193.8  | 168.4  | 150.7  |
| 77.5° | 855.5  | 436.6  | 76.3   | 45.0   | 41.1   | 72.4   | 105.7  | 148.8  | 172.3  | 144.9  | 123.3  |
| 80°   | 289.7  | 115.5  | 48.9   | 29.4   | 25.4   | 41.1   | 70.5   | 115.5  | 156.6  | 148.8  | 133.1  |
| 82.5° | 113.5  | 72.4   | 33.3   | 19.6   | 17.6   | 19.6   | 35.2   | 72.4   | 125.3  | 135.1  | 156.6  |
| 85°   | 33.3   | 19.6   | 11.7   | 9.8    | 9.8    | 9.8    | 9.8    | 29.4   | 74.4   | 97.9   | 123.3  |
| 87.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 17.6   | 31.3   | 41.1   |
| 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)