

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: P691418

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7030-U0**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691418  
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-C016-5TLD-U-T3-7030-U0  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K LED WITH TYPE III OPTIC AND U0 SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5875 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

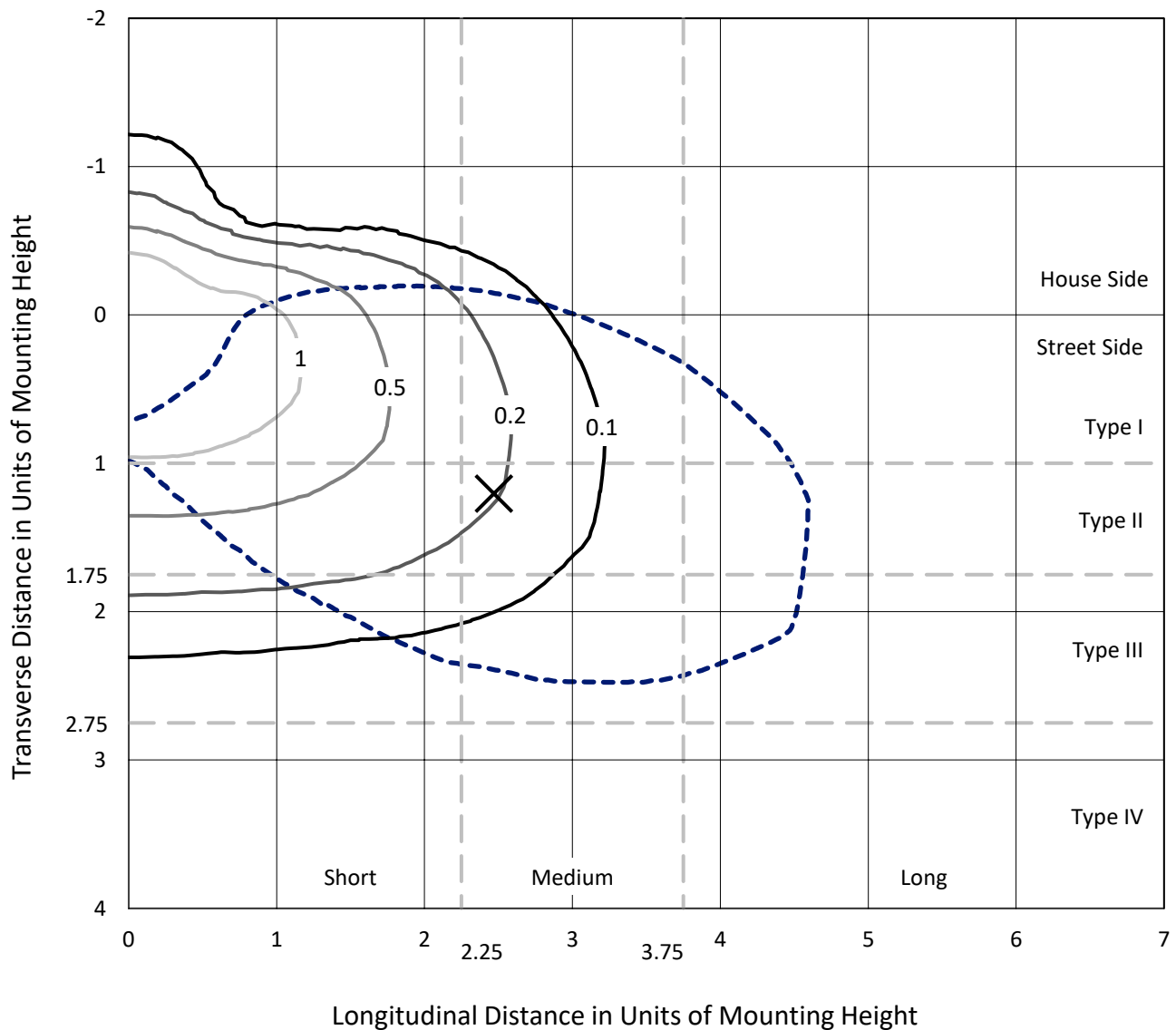
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

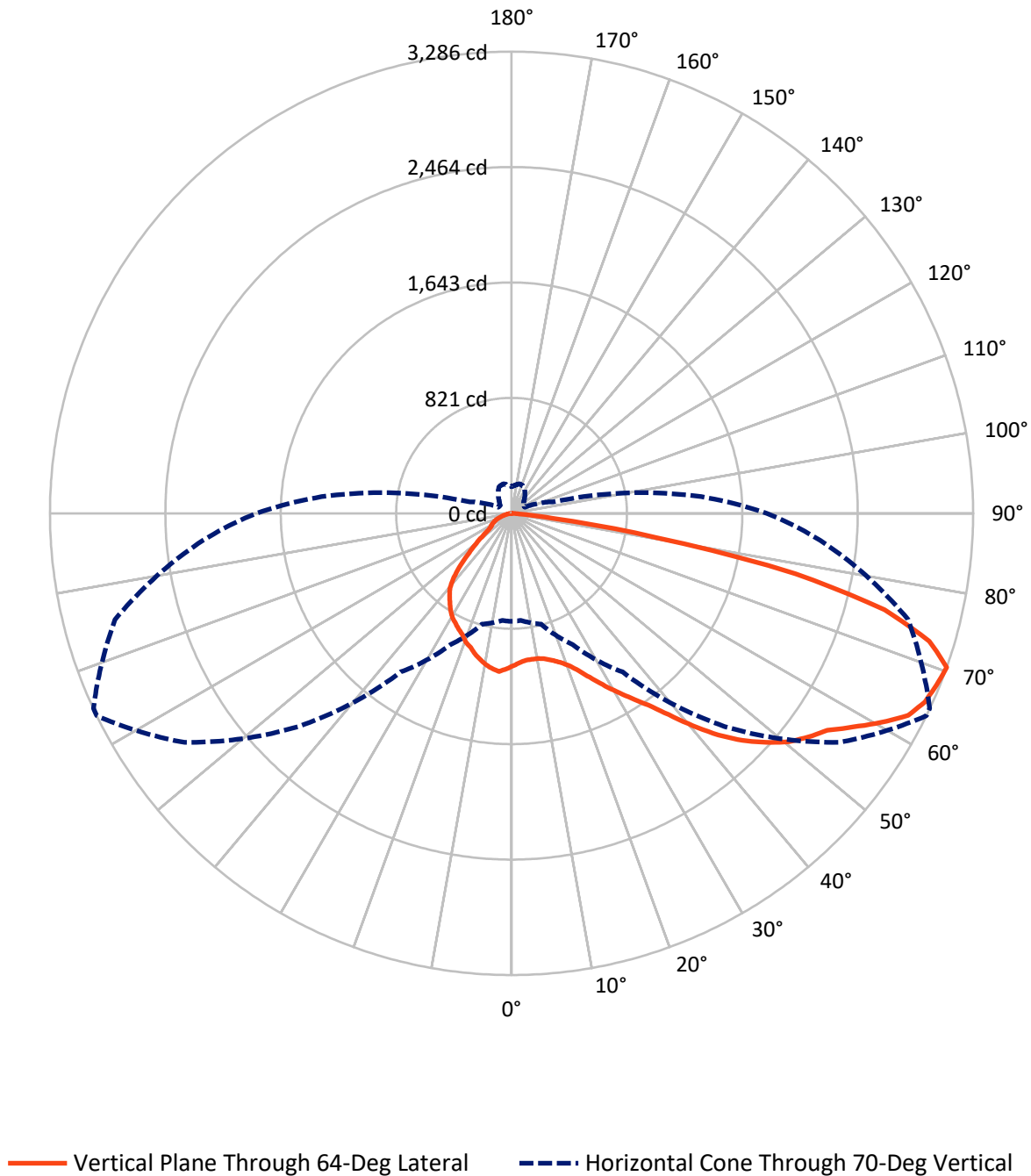
✕ Max cd  
 - - - 1/2 Max cd



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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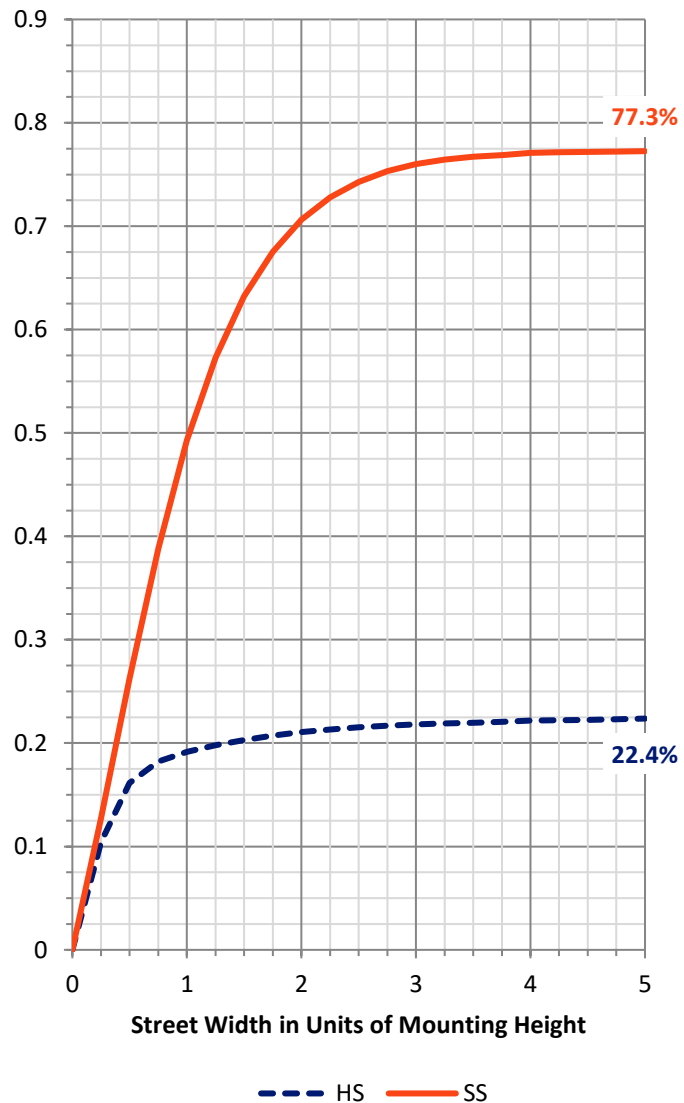
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1334.6   | 0.0    | 1334.6 |
|                    | % Fixture | 22.7     | 0.0    | 22.7   |
| <b>Street Side</b> | Lumens    | 4540.4   | 0.0    | 4540.4 |
|                    | % Fixture | 77.3     | 0.0    | 77.3   |
| <b>Total</b>       | Lumens    | 5875.0   | 0.0    | 5875.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.5  | 1.8       |
| 10°-20°   | 306.4  | 5.2       |
| 20°-30°   | 508.6  | 8.7       |
| 30°-40°   | 727.4  | 12.4      |
| 40°-50°   | 971.4  | 16.5      |
| 50°-60°   | 1174.0 | 20.0      |
| 60°-70°   | 1249.4 | 21.3      |
| 70°-80°   | 767.5  | 13.1      |
| 80°-90°   | 65.7   | 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°    | 5875.0 | 100.0     |
| 0°-180°   | 5875.0 | 100.0     |

**Coefficient of Utilization**



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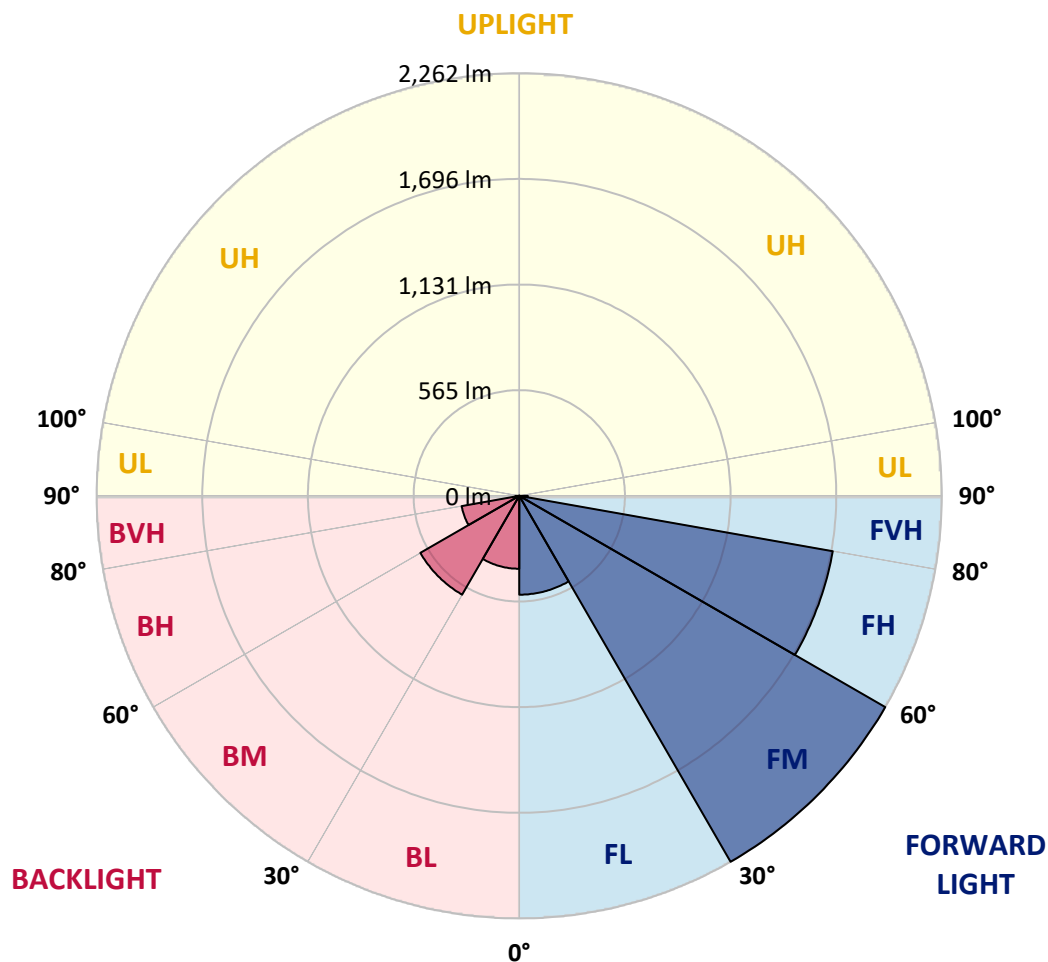
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 529.0  | 9.0       |                         |      |         |
| FM   | (30°-60°)   | 2261.8 | 38.5      |                         |      |         |
| FH   | (60°-80°)   | 1703.9 | 29.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 45.7   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 390.5  | 6.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 611.1  | 10.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 313.0  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 20.1   | 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°    | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 |
| 2.5°  | 1060.6 | 1060.6 | 1060.6 | 1060.6 | 1062.6 | 1064.6 | 1062.6 | 1064.6 | 1064.6 | 1068.6 | 1074.6 |
| 5°    | 1078.6 | 1078.6 | 1074.6 | 1066.6 | 1060.6 | 1052.6 | 1048.6 | 1050.6 | 1050.6 | 1060.6 | 1076.6 |
| 7.5°  | 1084.6 | 1084.6 | 1080.6 | 1080.6 | 1074.6 | 1056.6 | 1050.6 | 1048.6 | 1050.6 | 1054.6 | 1076.6 |
| 10°   | 1114.6 | 1112.6 | 1102.6 | 1090.6 | 1082.6 | 1066.6 | 1052.6 | 1050.6 | 1052.6 | 1058.6 | 1082.6 |
| 12.5° | 1146.5 | 1146.5 | 1142.5 | 1132.5 | 1110.6 | 1094.6 | 1070.6 | 1062.6 | 1060.6 | 1066.6 | 1080.6 |
| 15°   | 1210.4 | 1202.4 | 1186.5 | 1172.5 | 1156.5 | 1130.5 | 1098.6 | 1084.6 | 1080.6 | 1088.6 | 1082.6 |
| 17.5° | 1248.4 | 1242.4 | 1244.4 | 1222.4 | 1208.4 | 1172.5 | 1140.5 | 1114.6 | 1112.6 | 1120.6 | 1094.6 |
| 20°   | 1290.3 | 1288.3 | 1292.3 | 1290.3 | 1268.4 | 1236.4 | 1186.5 | 1154.5 | 1150.5 | 1152.5 | 1112.6 |
| 22.5° | 1354.2 | 1354.2 | 1352.3 | 1352.3 | 1340.3 | 1302.3 | 1246.4 | 1214.4 | 1208.4 | 1194.5 | 1142.5 |
| 25°   | 1424.2 | 1424.2 | 1424.2 | 1428.2 | 1428.2 | 1384.2 | 1328.3 | 1292.3 | 1288.3 | 1268.4 | 1192.5 |
| 27.5° | 1490.1 | 1494.1 | 1496.1 | 1498.1 | 1504.1 | 1484.1 | 1422.2 | 1380.2 | 1378.2 | 1352.3 | 1258.4 |
| 30°   | 1542.0 | 1544.0 | 1562.0 | 1566.0 | 1578.0 | 1572.0 | 1512.0 | 1472.1 | 1476.1 | 1442.1 | 1332.3 |
| 32.5° | 1587.9 | 1589.9 | 1615.9 | 1629.9 | 1643.9 | 1645.9 | 1595.9 | 1568.0 | 1568.0 | 1538.0 | 1422.2 |
| 35°   | 1631.9 | 1633.9 | 1665.8 | 1699.8 | 1727.8 | 1719.8 | 1691.8 | 1675.8 | 1681.8 | 1671.8 | 1546.0 |
| 37.5° | 1669.8 | 1677.8 | 1719.8 | 1769.7 | 1801.7 | 1807.7 | 1795.7 | 1817.7 | 1829.6 | 1845.6 | 1713.8 |
| 40°   | 1705.8 | 1709.8 | 1749.7 | 1801.7 | 1855.6 | 1883.6 | 1897.5 | 1987.4 | 1999.4 | 2011.4 | 1809.7 |
| 42.5° | 1671.8 | 1679.8 | 1765.7 | 1843.6 | 1911.5 | 1959.5 | 2025.4 | 2157.2 | 2183.2 | 2117.3 | 1939.5 |
| 45°   | 1631.9 | 1641.9 | 1727.8 | 1859.6 | 1955.5 | 2043.4 | 2165.2 | 2305.0 | 2325.0 | 2225.1 | 2009.4 |
| 47.5° | 1597.9 | 1609.9 | 1697.8 | 1845.6 | 2001.4 | 2157.2 | 2279.1 | 2436.9 | 2448.8 | 2317.0 | 2105.3 |
| 50°   | 1560.0 | 1570.0 | 1663.8 | 1827.6 | 2025.4 | 2261.1 | 2398.9 | 2556.7 | 2560.7 | 2392.9 | 2155.2 |
| 52.5° | 1510.0 | 1520.0 | 1615.9 | 1799.7 | 2043.4 | 2331.0 | 2498.8 | 2644.6 | 2628.6 | 2490.8 | 2213.1 |
| 55°   | 1446.1 | 1460.1 | 1564.0 | 1761.7 | 2053.3 | 2372.9 | 2566.7 | 2726.5 | 2718.5 | 2606.6 | 2289.0 |
| 57.5° | 1378.2 | 1392.2 | 1498.1 | 1709.8 | 2043.4 | 2398.9 | 2636.6 | 2868.3 | 2866.3 | 2700.5 | 2345.0 |
| 60°   | 1302.3 | 1314.3 | 1404.2 | 1641.9 | 1989.4 | 2440.8 | 2790.4 | 3022.1 | 3038.1 | 2806.4 | 2366.9 |
| 62.5° | 1202.4 | 1204.4 | 1294.3 | 1544.0 | 1919.5 | 2470.8 | 2900.3 | 3167.9 | 3157.9 | 2876.3 | 2370.9 |
| 65°   | 1070.6 | 1076.6 | 1156.5 | 1408.2 | 1805.7 | 2446.8 | 2928.2 | 3233.8 | 3233.8 | 2928.2 | 2366.9 |
| 67.5° | 942.8  | 940.8  | 1008.7 | 1238.4 | 1629.9 | 2341.0 | 2904.2 | 3261.8 | 3275.8 | 2962.2 | 2315.0 |
| 70°   | 769.0  | 765.0  | 816.9  | 1030.7 | 1378.2 | 2145.2 | 2842.3 | 3285.8 | 3283.8 | 2922.2 | 2205.1 |
| 72.5° | 569.3  | 567.3  | 603.2  | 781.0  | 1054.6 | 1835.6 | 2658.6 | 3110.0 | 3090.0 | 2730.5 | 1991.4 |
| 75°   | 315.6  | 299.6  | 297.6  | 483.4  | 613.2  | 1286.3 | 2259.1 | 2742.5 | 2750.4 | 2412.9 | 1667.8 |
| 77.5° | 45.9   | 47.9   | 49.9   | 87.9   | 105.9  | 481.4  | 1468.1 | 2067.3 | 2063.3 | 1861.6 | 1216.4 |
| 80°   | 32.0   | 34.0   | 36.0   | 43.9   | 49.9   | 113.9  | 507.3  | 1042.7 | 1102.6 | 978.7  | 561.3  |
| 82.5° | 24.0   | 24.0   | 26.0   | 30.0   | 28.0   | 51.9   | 157.8  | 289.6  | 299.6  | 271.6  | 165.8  |
| 85°   | 16.0   | 16.0   | 14.0   | 16.0   | 10.0   | 14.0   | 36.0   | 53.9   | 57.9   | 55.9   | 45.9   |
| 87.5° | 8.0    | 8.0    | 6.0    | 6.0    | 4.0    | 4.0    | 4.0    | 2.0    | 4.0    | 2.0    | 4.0    |
| 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°    | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 | 1086.6 |
| 2.5°  | 1080.6 | 1084.6 | 1096.6 | 1106.6 | 1118.6 | 1132.5 | 1140.5 | 1148.5 | 1156.5 | 1152.5 | 1158.5 |
| 5°    | 1084.6 | 1092.6 | 1110.6 | 1128.5 | 1138.5 | 1140.5 | 1142.5 | 1148.5 | 1160.5 | 1160.5 | 1170.5 |
| 7.5°  | 1088.6 | 1102.6 | 1102.6 | 1112.6 | 1126.5 | 1130.5 | 1132.5 | 1136.5 | 1142.5 | 1144.5 | 1142.5 |
| 10°   | 1088.6 | 1082.6 | 1092.6 | 1094.6 | 1088.6 | 1098.6 | 1104.6 | 1102.6 | 1108.6 | 1110.6 | 1110.6 |
| 12.5° | 1076.6 | 1074.6 | 1066.6 | 1066.6 | 1064.6 | 1048.6 | 1048.6 | 1064.6 | 1064.6 | 1074.6 | 1076.6 |
| 15°   | 1076.6 | 1060.6 | 1050.6 | 1036.7 | 1022.7 | 1016.7 | 1008.7 | 996.7  | 1000.7 | 1014.7 | 1018.7 |
| 17.5° | 1074.6 | 1056.6 | 1026.7 | 998.7  | 988.7  | 964.8  | 956.8  | 956.8  | 954.8  | 962.8  | 964.8  |
| 20°   | 1082.6 | 1056.6 | 1010.7 | 978.7  | 924.8  | 916.8  | 900.8  | 902.8  | 904.8  | 892.8  | 886.9  |
| 22.5° | 1104.6 | 1072.6 | 998.7  | 936.8  | 894.8  | 858.9  | 828.9  | 809.0  | 807.0  | 801.0  | 807.0  |
| 25°   | 1138.5 | 1100.6 | 1000.7 | 912.8  | 844.9  | 793.0  | 773.0  | 725.1  | 703.1  | 705.1  | 717.1  |
| 27.5° | 1200.4 | 1134.5 | 1010.7 | 886.9  | 805.0  | 731.1  | 667.1  | 637.2  | 613.2  | 613.2  | 617.2  |
| 30°   | 1258.4 | 1186.5 | 1006.7 | 864.9  | 743.0  | 651.2  | 569.3  | 521.3  | 513.3  | 505.3  | 503.3  |
| 32.5° | 1366.2 | 1252.4 | 1046.6 | 832.9  | 685.1  | 549.3  | 467.4  | 401.5  | 407.5  | 409.5  | 413.5  |
| 35°   | 1474.1 | 1358.2 | 1054.6 | 793.0  | 601.2  | 447.4  | 361.5  | 325.6  | 341.6  | 345.6  | 349.5  |
| 37.5° | 1617.9 | 1490.1 | 1108.6 | 757.0  | 515.3  | 343.6  | 287.6  | 271.6  | 287.6  | 287.6  | 289.6  |
| 40°   | 1695.8 | 1552.0 | 1152.5 | 721.1  | 403.5  | 253.7  | 225.7  | 213.7  | 233.7  | 249.7  | 253.7  |
| 42.5° | 1805.7 | 1631.9 | 1192.5 | 649.2  | 285.6  | 189.8  | 173.8  | 197.7  | 229.7  | 245.7  | 247.7  |
| 45°   | 1861.6 | 1671.8 | 1178.5 | 553.3  | 187.8  | 153.8  | 169.8  | 199.7  | 231.7  | 247.7  | 249.7  |
| 47.5° | 1937.5 | 1727.8 | 1150.5 | 441.4  | 149.8  | 151.8  | 171.8  | 205.7  | 237.7  | 251.7  | 253.7  |
| 50°   | 2011.4 | 1785.7 | 1078.6 | 351.5  | 143.8  | 151.8  | 175.8  | 207.7  | 235.7  | 245.7  | 243.7  |
| 52.5° | 2053.3 | 1839.6 | 986.7  | 267.7  | 143.8  | 153.8  | 179.8  | 211.7  | 233.7  | 235.7  | 235.7  |
| 55°   | 2091.3 | 1845.6 | 910.8  | 207.7  | 141.8  | 155.8  | 183.8  | 215.7  | 235.7  | 235.7  | 231.7  |
| 57.5° | 2115.3 | 1821.6 | 852.9  | 179.8  | 141.8  | 155.8  | 183.8  | 215.7  | 245.7  | 251.7  | 245.7  |
| 60°   | 2105.3 | 1775.7 | 812.9  | 167.8  | 137.8  | 153.8  | 181.8  | 221.7  | 301.6  | 315.6  | 303.6  |
| 62.5° | 2081.3 | 1749.7 | 727.1  | 153.8  | 131.8  | 147.8  | 177.8  | 239.7  | 323.6  | 325.6  | 315.6  |
| 65°   | 2059.3 | 1663.8 | 623.2  | 137.8  | 123.8  | 141.8  | 171.8  | 243.7  | 273.6  | 263.7  | 261.7  |
| 67.5° | 1959.5 | 1552.0 | 475.4  | 121.8  | 111.9  | 133.8  | 165.8  | 223.7  | 243.7  | 231.7  | 227.7  |
| 70°   | 1817.7 | 1356.2 | 317.6  | 103.9  | 99.9   | 123.8  | 165.8  | 209.7  | 217.7  | 197.7  | 189.8  |
| 72.5° | 1558.0 | 1122.5 | 173.8  | 83.9   | 83.9   | 113.9  | 149.8  | 195.7  | 201.7  | 177.8  | 163.8  |
| 75°   | 1268.4 | 812.9  | 111.9  | 63.9   | 63.9   | 95.9   | 135.8  | 185.8  | 197.7  | 171.8  | 153.8  |
| 77.5° | 872.9  | 445.4  | 77.9   | 45.9   | 41.9   | 73.9   | 107.9  | 151.8  | 175.8  | 147.8  | 125.8  |
| 80°   | 295.6  | 117.8  | 49.9   | 30.0   | 26.0   | 41.9   | 71.9   | 117.8  | 159.8  | 151.8  | 135.8  |
| 82.5° | 115.9  | 73.9   | 34.0   | 20.0   | 18.0   | 20.0   | 36.0   | 73.9   | 127.8  | 137.8  | 159.8  |
| 85°   | 34.0   | 20.0   | 12.0   | 10.0   | 10.0   | 10.0   | 10.0   | 30.0   | 75.9   | 99.9   | 125.8  |
| 87.5° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 18.0   | 32.0   | 41.9   |
| 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)