

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: P148032

Luminaire Tested: **AVM-E02-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148032  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVM-E02-LED-E-U-5WQ-7060  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (42) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6533.8 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

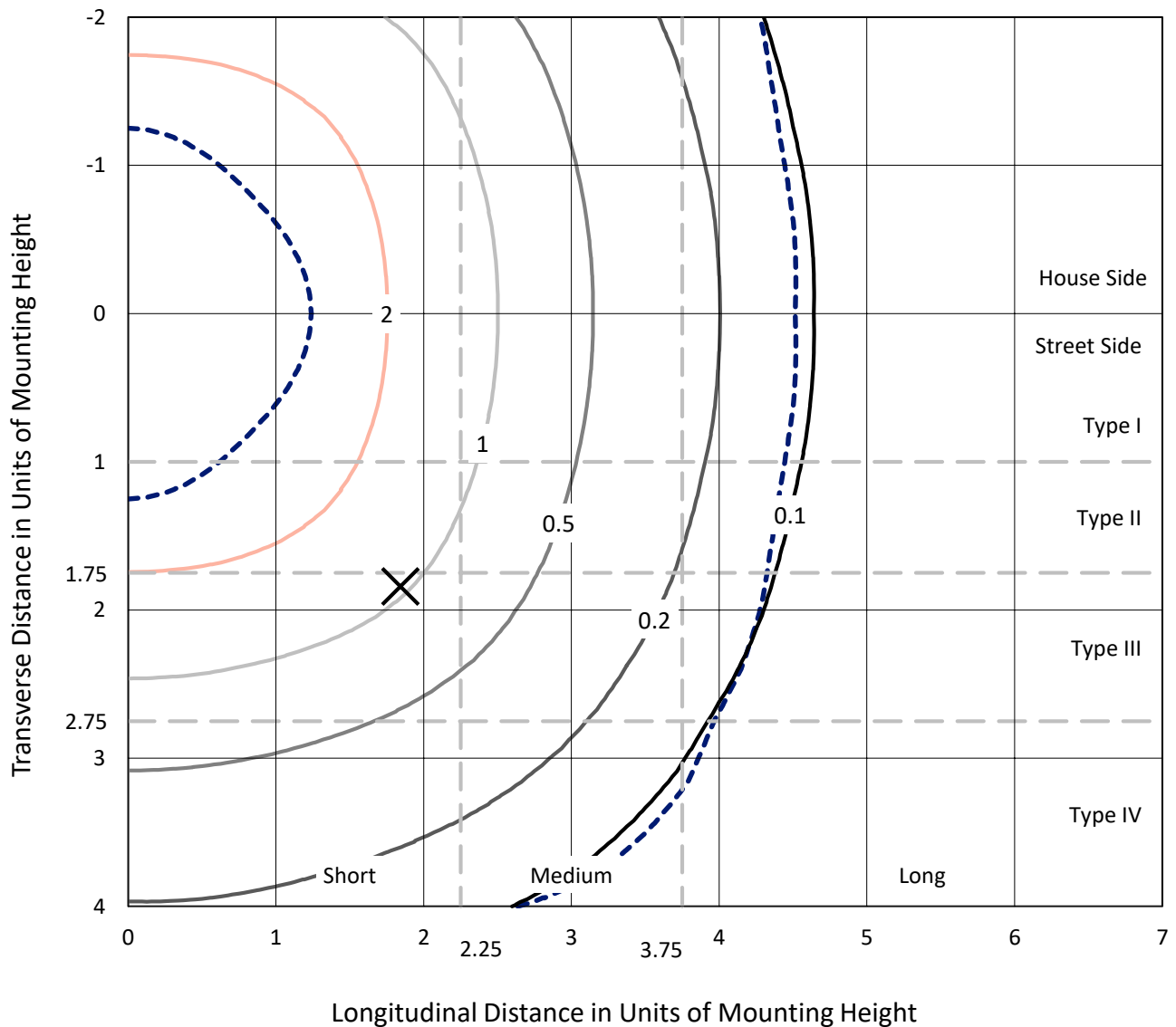
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

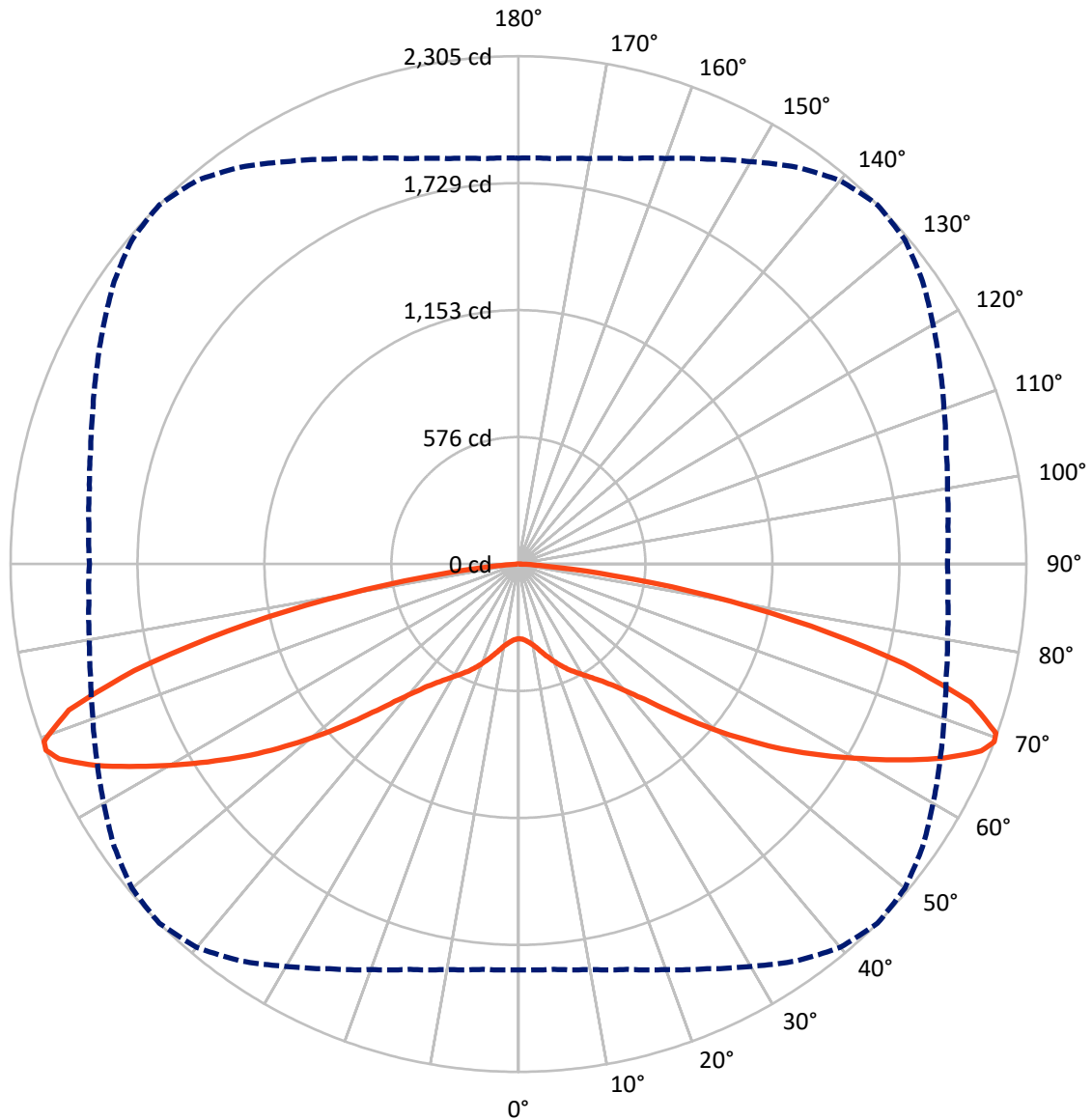


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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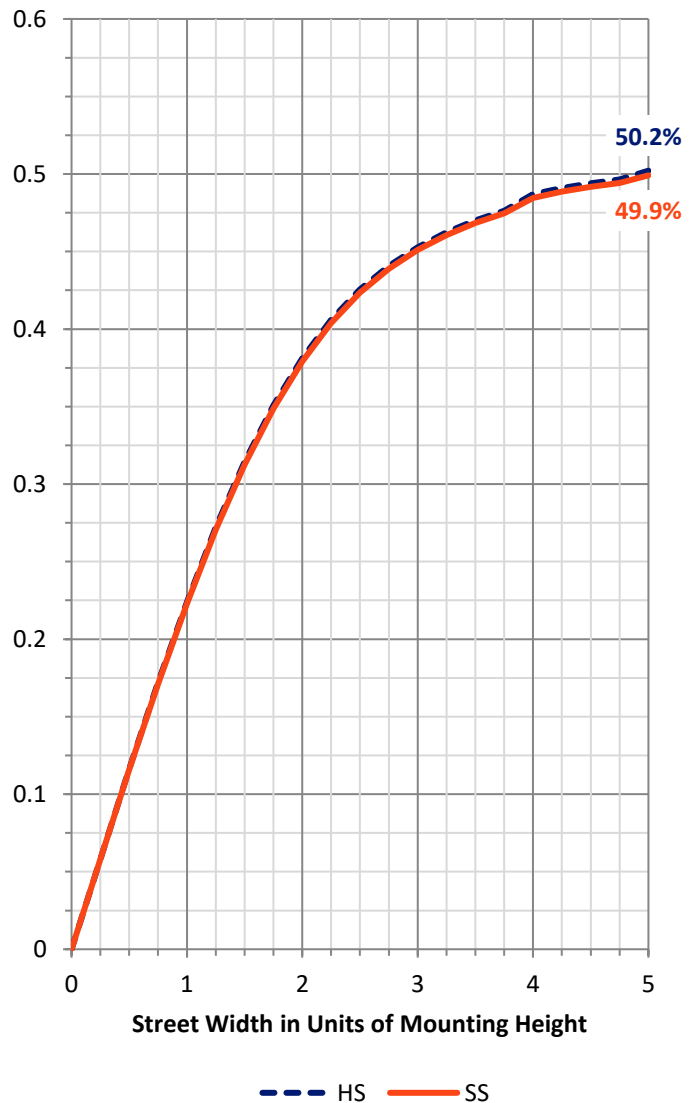
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3266.9   | 0.0    | 3266.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3266.9   | 0.0    | 3266.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6533.8   | 0.0    | 6533.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.1   | 0.5       |
| 10°-20°   | 120.3  | 1.8       |
| 20°-30°   | 243.6  | 3.7       |
| 30°-40°   | 408.4  | 6.3       |
| 40°-50°   | 720.4  | 11.0      |
| 50°-60°   | 1270.5 | 19.4      |
| 60°-70°   | 1939.6 | 29.7      |
| 70°-80°   | 1620.8 | 24.8      |
| 80°-90°   | 176.1  | 2.7       |
| 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°    | 6533.8 | 100.0     |
| 0°-180°   | 6533.8 | 100.0     |

**Coefficient of Utilization**



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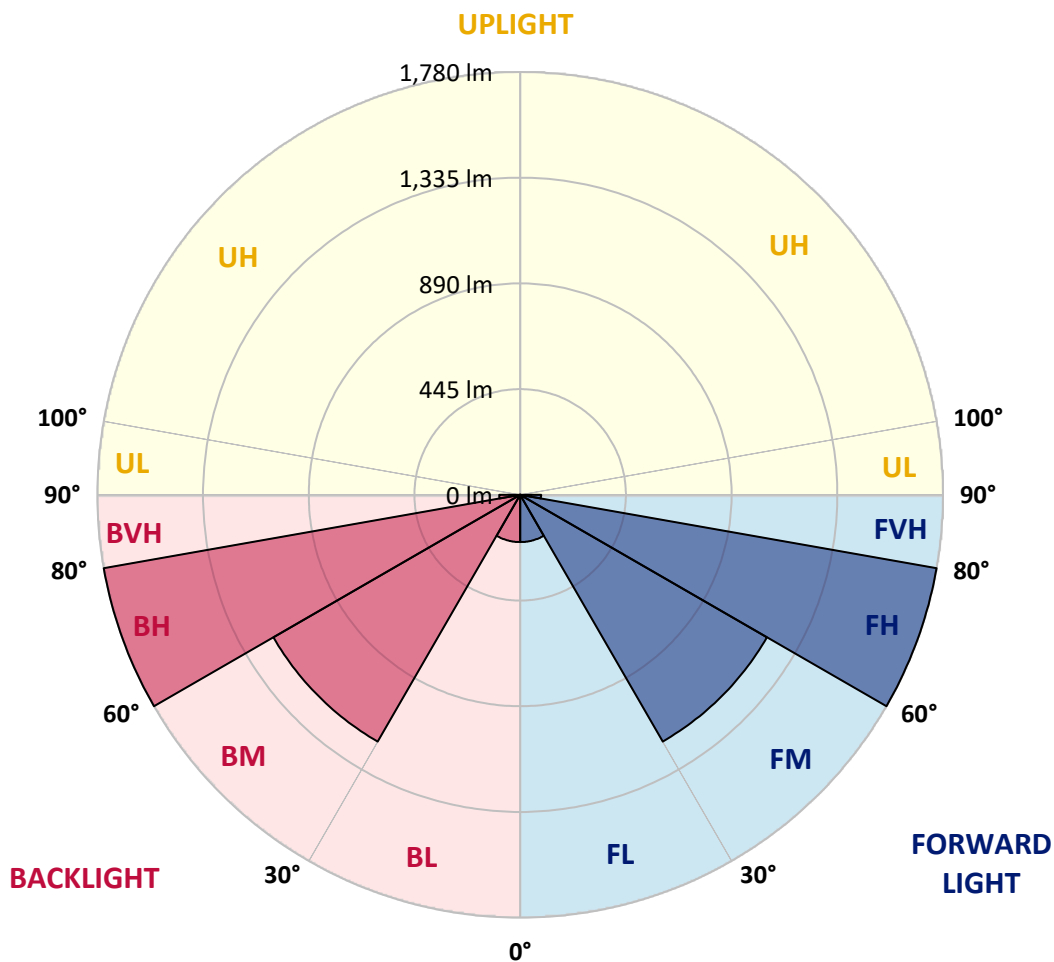
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 199.0  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 1199.7 | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 1780.2 | 27.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 88.1   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 199.0  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1199.7 | 18.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1780.2 | 27.2      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 88.1   | 1.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  |
| 2.5°  | 342.0  | 342.7  | 342.0  | 342.0  | 342.0  | 342.0  | 342.0  | 341.4  | 341.4  | 341.4  | 342.0  |
| 5°    | 348.9  | 349.6  | 348.9  | 349.6  | 349.6  | 349.6  | 349.6  | 348.9  | 348.9  | 348.9  | 348.9  |
| 7.5°  | 359.8  | 359.8  | 359.8  | 360.5  | 359.8  | 359.8  | 360.5  | 359.8  | 359.8  | 359.8  | 359.8  |
| 10°   | 375.6  | 374.9  | 374.9  | 374.9  | 374.9  | 374.9  | 375.6  | 375.6  | 375.6  | 374.9  | 374.9  |
| 12.5° | 394.7  | 394.0  | 394.7  | 394.7  | 395.4  | 395.4  | 395.4  | 395.4  | 395.4  | 395.4  | 394.7  |
| 15°   | 418.0  | 418.0  | 418.0  | 418.7  | 420.0  | 420.0  | 419.3  | 420.0  | 420.0  | 420.0  | 420.0  |
| 17.5° | 444.0  | 445.3  | 444.0  | 444.6  | 445.3  | 444.6  | 446.0  | 446.7  | 447.4  | 446.7  | 444.6  |
| 20°   | 470.6  | 471.3  | 471.3  | 471.3  | 471.3  | 472.7  | 473.4  | 473.4  | 475.4  | 474.7  | 474.1  |
| 22.5° | 496.0  | 497.3  | 497.3  | 498.0  | 498.0  | 500.1  | 500.1  | 500.1  | 501.4  | 502.8  | 501.4  |
| 25°   | 522.6  | 521.9  | 521.9  | 523.3  | 524.0  | 526.7  | 526.7  | 528.1  | 530.2  | 530.8  | 529.5  |
| 27.5° | 546.6  | 545.9  | 545.9  | 547.9  | 548.6  | 552.0  | 552.0  | 554.8  | 556.1  | 556.8  | 555.5  |
| 30°   | 571.9  | 571.9  | 571.2  | 573.3  | 575.3  | 578.0  | 579.4  | 582.1  | 584.2  | 584.9  | 583.5  |
| 32.5° | 602.0  | 600.6  | 601.3  | 602.7  | 604.0  | 606.8  | 608.8  | 612.2  | 615.0  | 615.7  | 614.3  |
| 35°   | 636.2  | 634.1  | 634.8  | 636.2  | 638.2  | 642.3  | 645.8  | 647.8  | 651.9  | 653.3  | 650.6  |
| 37.5° | 673.8  | 674.5  | 673.8  | 677.2  | 680.6  | 685.4  | 689.5  | 692.3  | 696.4  | 698.4  | 696.4  |
| 40°   | 727.2  | 725.1  | 727.2  | 730.6  | 736.1  | 742.2  | 750.4  | 752.5  | 756.6  | 760.7  | 755.9  |
| 42.5° | 796.3  | 794.9  | 799.7  | 802.4  | 808.6  | 815.4  | 825.7  | 831.1  | 837.3  | 840.0  | 835.9  |
| 45°   | 886.6  | 886.6  | 892.0  | 892.7  | 902.3  | 911.2  | 925.5  | 932.4  | 944.0  | 944.0  | 944.0  |
| 47.5° | 986.4  | 990.5  | 994.0  | 1000.8 | 1007.6 | 1024.1 | 1038.4 | 1053.5 | 1064.4 | 1065.8 | 1063.7 |
| 50°   | 1089.7 | 1093.8 | 1104.1 | 1113.7 | 1128.7 | 1149.2 | 1165.0 | 1184.8 | 1194.4 | 1202.6 | 1199.9 |
| 52.5° | 1204.0 | 1204.6 | 1217.0 | 1229.3 | 1251.2 | 1273.7 | 1299.0 | 1319.6 | 1336.7 | 1344.2 | 1338.0 |
| 55°   | 1329.1 | 1330.5 | 1341.5 | 1354.5 | 1379.1 | 1405.1 | 1436.5 | 1457.8 | 1479.6 | 1493.3 | 1483.1 |
| 57.5° | 1464.6 | 1465.3 | 1476.2 | 1492.0 | 1521.4 | 1547.4 | 1577.5 | 1607.6 | 1628.1 | 1640.4 | 1633.6 |
| 60°   | 1614.4 | 1617.8 | 1626.0 | 1645.9 | 1673.9 | 1701.3 | 1731.4 | 1758.1 | 1782.0 | 1795.0 | 1788.2 |
| 62.5° | 1774.5 | 1777.9 | 1789.5 | 1805.3 | 1829.9 | 1860.0 | 1888.7 | 1922.9 | 1942.8 | 1957.1 | 1946.9 |
| 65°   | 1881.9 | 1888.0 | 1906.5 | 1927.7 | 1964.0 | 2003.0 | 2036.5 | 2083.0 | 2106.9 | 2124.0 | 2114.5 |
| 67.5° | 1888.7 | 1892.1 | 1914.7 | 1946.9 | 1995.4 | 2054.3 | 2122.7 | 2195.2 | 2242.4 | 2265.0 | 2248.5 |
| 69°   | 1842.2 | 1847.0 | 1868.9 | 1905.1 | 1959.2 | 2027.6 | 2109.0 | 2199.3 | 2271.8 | 2305.3 | 2289.6 |
| 70°   | 1789.5 | 1799.8 | 1823.7 | 1863.4 | 1916.1 | 1987.9 | 2072.0 | 2168.5 | 2253.3 | 2299.2 | 2287.5 |
| 72.5° | 1678.7 | 1681.4 | 1697.2 | 1728.6 | 1769.0 | 1828.5 | 1907.9 | 1998.9 | 2079.6 | 2145.2 | 2154.8 |
| 75°   | 1489.9 | 1498.8 | 1510.4 | 1531.6 | 1552.2 | 1595.3 | 1648.6 | 1710.9 | 1758.1 | 1808.7 | 1810.7 |
| 77.5° | 1126.0 | 1152.7 | 1161.6 | 1166.3 | 1175.2 | 1209.4 | 1256.0 | 1310.0 | 1349.0 | 1357.2 | 1355.8 |
| 80°   | 505.5  | 541.1  | 549.3  | 588.3  | 612.2  | 669.0  | 740.2  | 822.9  | 878.3  | 884.5  | 869.5  |
| 82.5° | 99.2   | 106.0  | 123.8  | 154.6  | 210.7  | 244.2  | 290.7  | 348.9  | 402.2  | 433.0  | 414.5  |
| 85°   | 32.8   | 34.9   | 40.4   | 44.5   | 51.3   | 58.1   | 70.5   | 87.6   | 108.8  | 120.4  | 107.4  |
| 87.5° | 13.0   | 13.0   | 15.0   | 16.4   | 17.8   | 17.8   | 17.8   | 16.4   | 15.7   | 13.0   | 11.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  | 339.3  |
| 2.5°  | 341.4  | 341.4  | 341.4  | 341.4  | 341.4  | 341.4  | 341.4  | 341.4  |
| 5°    | 348.9  | 348.2  | 348.2  | 347.5  | 347.5  | 347.5  | 347.5  | 347.5  |
| 7.5°  | 359.1  | 358.5  | 357.8  | 358.5  | 357.8  | 357.8  | 357.8  | 357.8  |
| 10°   | 374.9  | 373.5  | 372.8  | 372.1  | 372.1  | 372.1  | 371.5  | 371.5  |
| 12.5° | 393.3  | 393.3  | 392.7  | 392.0  | 390.6  | 391.3  | 390.6  | 389.2  |
| 15°   | 418.7  | 417.3  | 416.6  | 415.9  | 414.5  | 414.5  | 414.5  | 413.9  |
| 17.5° | 444.0  | 442.6  | 442.6  | 440.5  | 439.9  | 439.9  | 439.9  | 440.5  |
| 20°   | 472.0  | 470.0  | 468.6  | 467.2  | 465.9  | 466.5  | 465.2  | 466.5  |
| 22.5° | 500.1  | 497.3  | 496.0  | 493.9  | 491.8  | 491.8  | 491.2  | 489.8  |
| 25°   | 527.4  | 524.0  | 522.6  | 520.6  | 517.8  | 517.8  | 516.5  | 515.1  |
| 27.5° | 553.4  | 550.0  | 548.6  | 544.5  | 541.8  | 541.1  | 539.7  | 539.0  |
| 30°   | 582.1  | 578.0  | 576.0  | 571.9  | 567.8  | 567.1  | 565.0  | 565.0  |
| 32.5° | 612.2  | 608.1  | 606.8  | 600.6  | 597.2  | 597.2  | 595.8  | 594.5  |
| 35°   | 649.9  | 643.7  | 642.3  | 636.2  | 631.4  | 631.4  | 630.0  | 630.7  |
| 37.5° | 694.3  | 689.5  | 684.8  | 680.0  | 674.5  | 673.8  | 672.4  | 671.1  |
| 40°   | 753.8  | 748.4  | 742.9  | 736.1  | 731.3  | 729.9  | 727.9  | 727.2  |
| 42.5° | 833.2  | 827.7  | 816.8  | 811.3  | 806.5  | 802.4  | 801.7  | 801.0  |
| 45°   | 934.4  | 927.6  | 920.1  | 909.8  | 903.7  | 894.8  | 893.4  | 890.0  |
| 47.5° | 1056.2 | 1043.2 | 1030.2 | 1021.3 | 1011.7 | 1001.5 | 999.4  | 994.0  |
| 50°   | 1185.5 | 1175.2 | 1153.3 | 1139.0 | 1123.9 | 1113.7 | 1106.8 | 1104.8 |
| 52.5° | 1324.4 | 1305.2 | 1283.3 | 1264.2 | 1242.3 | 1228.6 | 1216.3 | 1212.9 |
| 55°   | 1469.4 | 1442.0 | 1414.7 | 1392.1 | 1370.2 | 1353.8 | 1342.1 | 1336.7 |
| 57.5° | 1614.4 | 1584.3 | 1554.2 | 1529.6 | 1511.1 | 1489.9 | 1478.3 | 1475.5 |
| 60°   | 1765.6 | 1736.9 | 1706.1 | 1681.4 | 1658.9 | 1640.4 | 1633.6 | 1620.6 |
| 62.5° | 1925.7 | 1895.6 | 1866.8 | 1842.9 | 1814.2 | 1801.2 | 1789.5 | 1782.0 |
| 65°   | 2083.0 | 2048.1 | 2011.9 | 1986.5 | 1957.8 | 1939.3 | 1925.0 | 1914.7 |
| 67.5° | 2204.8 | 2152.1 | 2103.5 | 2061.1 | 2022.1 | 1993.4 | 1974.9 | 1965.3 |
| 69°   | 2239.0 | 2173.3 | 2111.0 | 2055.6 | 2009.8 | 1977.6 | 1957.1 | 1947.5 |
| 70°   | 2234.9 | 2162.3 | 2093.9 | 2033.1 | 1983.1 | 1948.9 | 1929.1 | 1911.3 |
| 72.5° | 2108.3 | 2041.9 | 1966.0 | 1899.7 | 1854.5 | 1821.7 | 1801.8 | 1792.3 |
| 75°   | 1799.1 | 1754.6 | 1699.9 | 1648.6 | 1615.8 | 1596.6 | 1572.0 | 1572.7 |
| 77.5° | 1310.0 | 1311.4 | 1274.4 | 1221.7 | 1184.8 | 1178.0 | 1167.0 | 1156.1 |
| 80°   | 812.7  | 747.7  | 705.3  | 648.5  | 606.8  | 570.5  | 554.8  | 520.6  |
| 82.5° | 374.9  | 292.8  | 227.1  | 171.7  | 132.0  | 103.3  | 90.3   | 73.9   |
| 85°   | 83.5   | 63.6   | 52.7   | 42.4   | 36.3   | 33.5   | 27.4   | 25.3   |
| 87.5° | 11.6   | 10.3   | 9.6    | 8.9    | 7.5    | 5.5    | 4.1    | 3.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)