

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: P144204

Luminaire Tested: **RDG-F03-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144204  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: RDG-F03-LED-E-U-5WQ-7030  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6934.2 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 78.3  
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: 28.75 FT



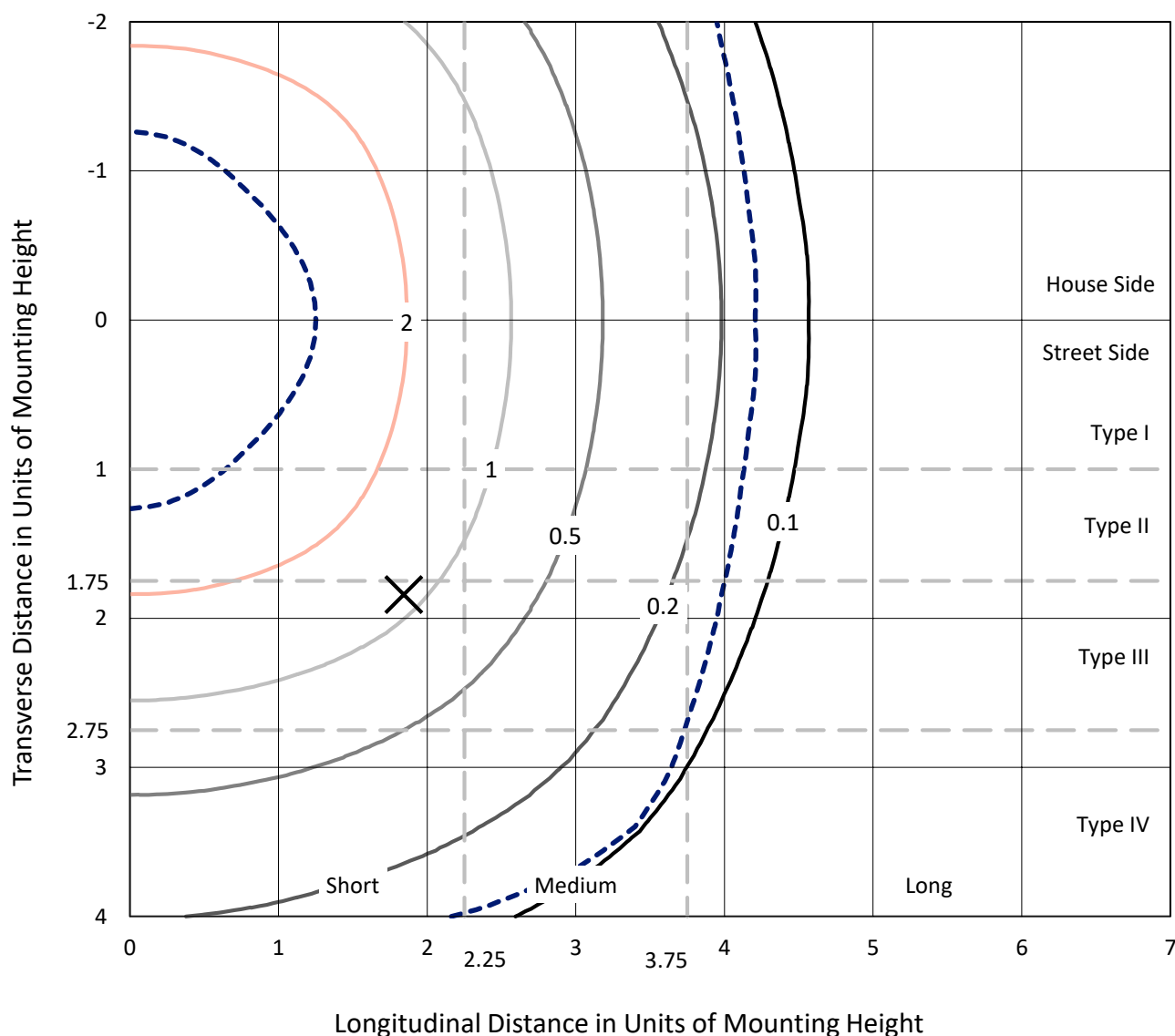
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

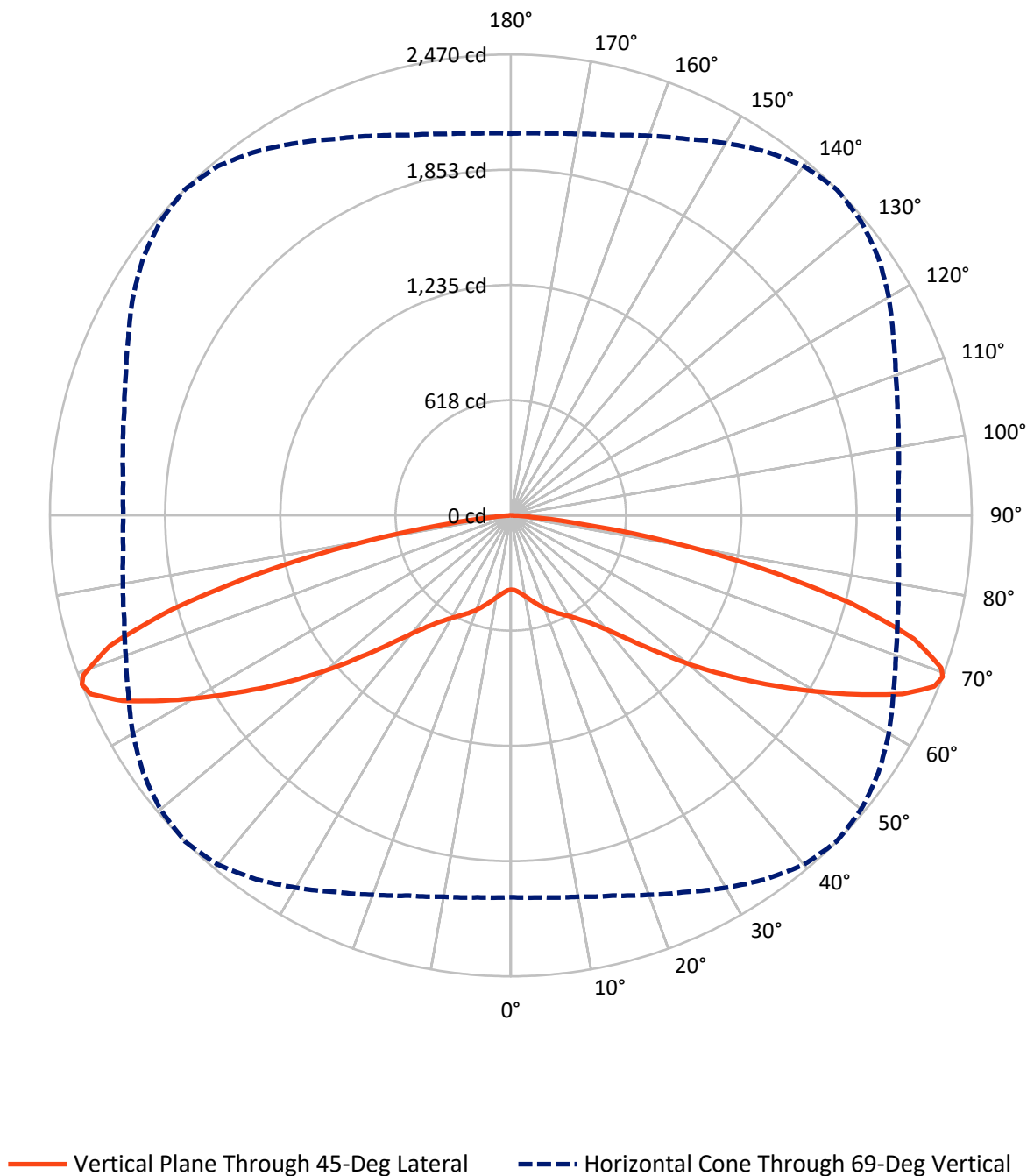


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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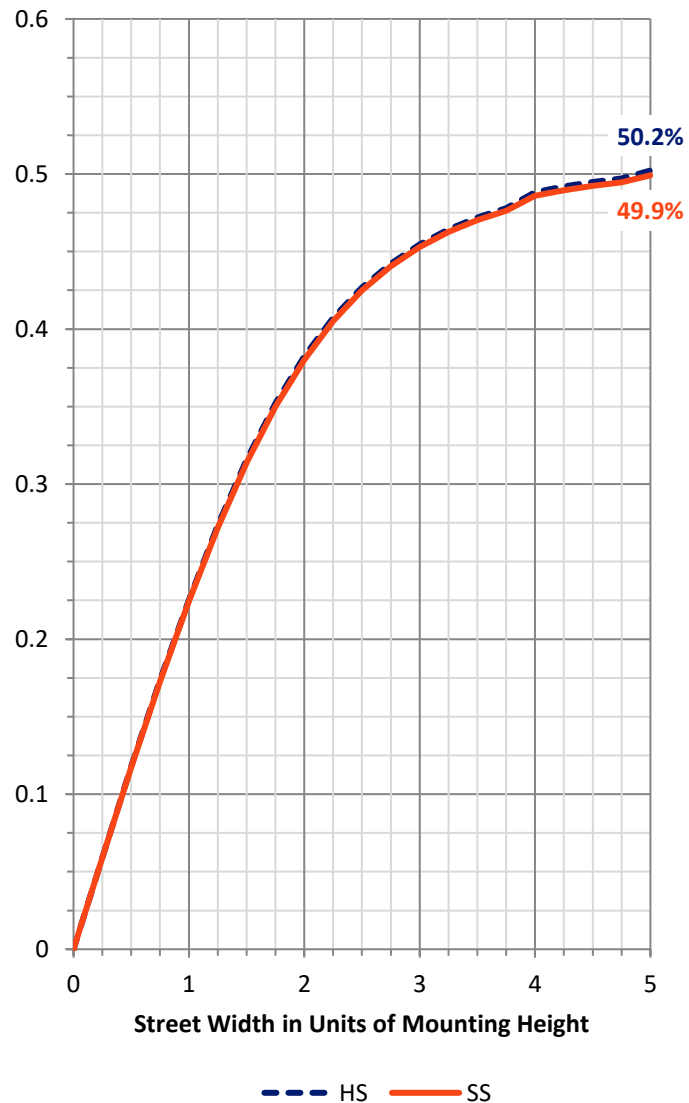
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3467.1   | 0.0    | 3467.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3467.1   | 0.0    | 3467.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6934.2   | 0.0    | 6934.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.2   | 0.6       |
| 10°-20°   | 138.6  | 2.0       |
| 20°-30°   | 267.1  | 3.9       |
| 30°-40°   | 437.7  | 6.3       |
| 40°-50°   | 761.1  | 11.0      |
| 50°-60°   | 1352.0 | 19.5      |
| 60°-70°   | 2099.0 | 30.3      |
| 70°-80°   | 1672.3 | 24.1      |
| 80°-90°   | 166.3  | 2.4       |
| 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°    | 6934.2 | 100.0     |
| 0°-180°   | 6934.2 | 100.0     |

**Coefficient of Utilization**



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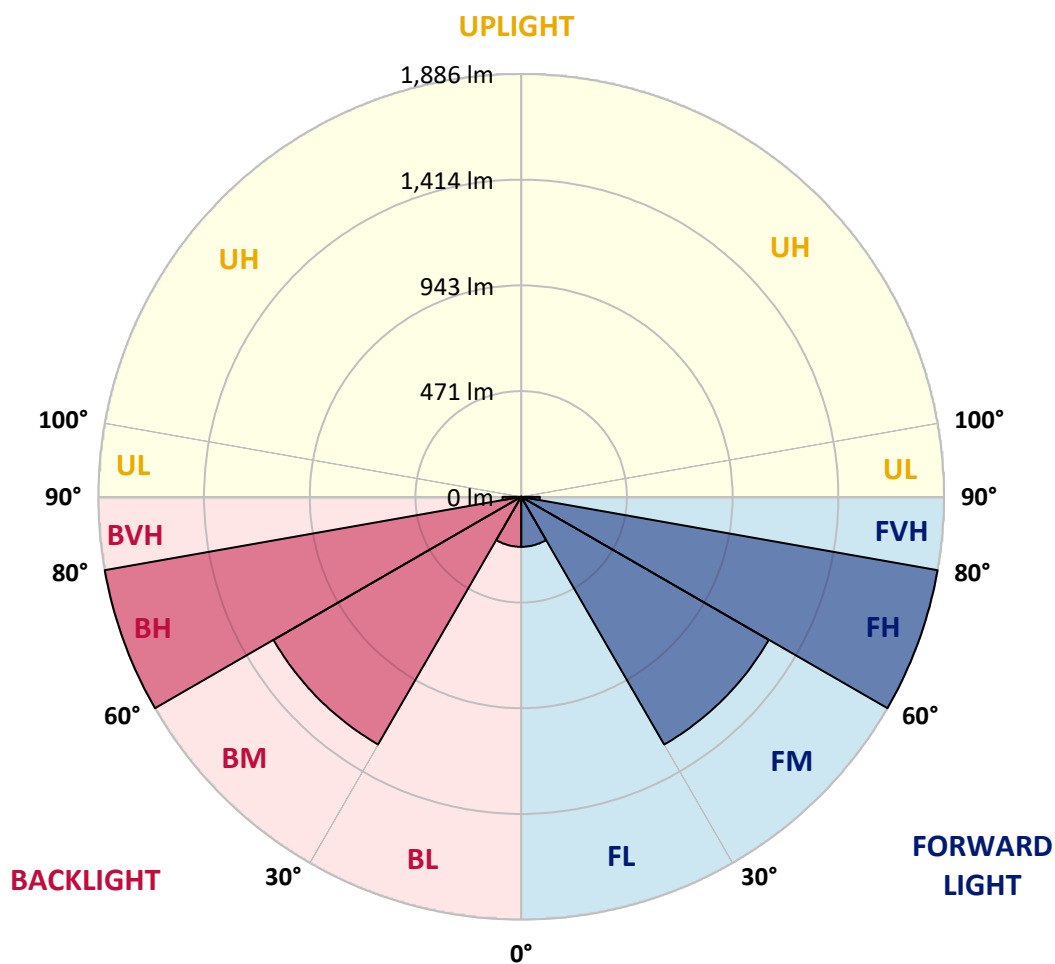
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 222.9  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 1275.4 | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 1885.7 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 83.1   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 222.9  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1275.4 | 18.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1885.7 | 27.2      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 83.1   | 1.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  |
| 2.5°  | 401.7  | 401.7  | 401.7  | 401.3  | 401.3  | 400.8  | 401.3  | 400.8  | 400.8  | 400.8  | 400.8  |
| 5°    | 412.1  | 411.2  | 411.2  | 410.8  | 411.7  | 411.7  | 410.8  | 411.2  | 410.8  | 411.2  | 411.2  |
| 7.5°  | 425.3  | 425.3  | 425.3  | 424.8  | 425.7  | 425.3  | 424.8  | 425.3  | 425.3  | 424.8  | 424.8  |
| 10°   | 441.5  | 442.0  | 441.5  | 441.5  | 442.9  | 442.4  | 442.9  | 442.9  | 443.3  | 442.9  | 442.9  |
| 12.5° | 460.5  | 460.5  | 461.0  | 461.4  | 461.9  | 462.3  | 463.7  | 463.3  | 464.2  | 463.3  | 463.3  |
| 15°   | 482.7  | 483.6  | 482.7  | 482.7  | 484.1  | 485.0  | 485.4  | 485.4  | 486.3  | 485.9  | 485.0  |
| 17.5° | 506.2  | 506.7  | 506.2  | 505.8  | 507.1  | 508.5  | 508.9  | 508.9  | 510.3  | 509.4  | 509.4  |
| 20°   | 530.2  | 530.7  | 529.8  | 529.3  | 531.1  | 531.1  | 532.0  | 532.5  | 533.8  | 534.3  | 532.9  |
| 22.5° | 552.4  | 552.8  | 552.4  | 551.9  | 553.7  | 553.7  | 555.1  | 555.5  | 557.4  | 556.9  | 556.9  |
| 25°   | 574.1  | 574.1  | 573.6  | 573.6  | 575.4  | 575.9  | 577.3  | 578.2  | 580.0  | 580.0  | 580.0  |
| 27.5° | 594.0  | 594.4  | 593.5  | 593.1  | 596.7  | 598.1  | 599.0  | 600.8  | 602.1  | 603.0  | 602.6  |
| 30°   | 616.6  | 616.6  | 616.2  | 617.5  | 619.8  | 621.6  | 623.4  | 626.1  | 628.8  | 627.9  | 627.9  |
| 32.5° | 643.3  | 644.2  | 643.8  | 645.6  | 648.3  | 651.0  | 653.3  | 656.4  | 657.8  | 660.0  | 658.2  |
| 35°   | 679.0  | 680.9  | 680.0  | 681.8  | 684.0  | 685.8  | 690.8  | 694.0  | 696.2  | 697.6  | 696.7  |
| 37.5° | 723.8  | 722.9  | 724.7  | 725.2  | 729.7  | 732.0  | 737.9  | 742.4  | 746.0  | 747.4  | 746.5  |
| 40°   | 779.5  | 778.1  | 780.4  | 782.6  | 788.5  | 790.8  | 797.6  | 804.4  | 809.3  | 811.1  | 810.2  |
| 42.5° | 846.0  | 847.8  | 851.4  | 854.6  | 862.7  | 869.1  | 876.7  | 886.7  | 892.1  | 894.4  | 891.2  |
| 45°   | 933.3  | 930.1  | 936.9  | 945.1  | 949.6  | 963.6  | 976.3  | 986.7  | 995.7  | 999.3  | 995.7  |
| 47.5° | 1032.8 | 1032.4 | 1040.5 | 1050.5 | 1062.2 | 1075.3 | 1090.3 | 1103.8 | 1119.7 | 1120.6 | 1116.1 |
| 50°   | 1142.8 | 1151.8 | 1156.3 | 1166.3 | 1188.0 | 1204.3 | 1223.3 | 1243.6 | 1258.1 | 1262.6 | 1254.5 |
| 52.5° | 1275.3 | 1282.1 | 1284.8 | 1301.5 | 1321.4 | 1341.4 | 1368.0 | 1392.5 | 1409.2 | 1411.0 | 1407.0 |
| 55°   | 1419.2 | 1424.6 | 1429.6 | 1449.9 | 1471.6 | 1489.3 | 1523.2 | 1547.2 | 1563.9 | 1570.3 | 1567.6 |
| 57.5° | 1568.0 | 1573.0 | 1579.3 | 1601.5 | 1623.6 | 1648.5 | 1680.7 | 1708.7 | 1728.2 | 1739.9 | 1736.7 |
| 60°   | 1733.1 | 1733.1 | 1747.6 | 1769.8 | 1787.9 | 1817.3 | 1850.8 | 1883.3 | 1904.6 | 1923.1 | 1918.2 |
| 62.5° | 1906.8 | 1911.8 | 1925.9 | 1943.9 | 1962.9 | 1990.1 | 2028.1 | 2067.0 | 2099.6 | 2113.6 | 2113.1 |
| 65°   | 2038.5 | 2047.5 | 2066.1 | 2086.9 | 2118.6 | 2150.7 | 2198.6 | 2247.1 | 2286.4 | 2306.8 | 2306.8 |
| 67.5° | 2077.0 | 2082.8 | 2105.9 | 2137.6 | 2183.3 | 2234.4 | 2299.5 | 2366.9 | 2420.8 | 2447.5 | 2430.7 |
| 69°   | 2046.2 | 2054.8 | 2075.1 | 2109.5 | 2163.8 | 2226.2 | 2303.6 | 2380.1 | 2442.5 | 2470.1 | 2450.6 |
| 70°   | 2010.4 | 2019.9 | 2040.3 | 2074.2 | 2130.3 | 2196.8 | 2274.2 | 2356.5 | 2423.5 | 2447.0 | 2424.8 |
| 72.5° | 1864.8 | 1876.5 | 1891.0 | 1920.4 | 1971.1 | 2033.5 | 2103.2 | 2175.6 | 2239.8 | 2258.4 | 2230.8 |
| 75°   | 1616.4 | 1618.7 | 1625.9 | 1647.6 | 1665.7 | 1710.1 | 1769.3 | 1826.8 | 1875.2 | 1886.0 | 1856.6 |
| 77.5° | 1144.1 | 1131.9 | 1119.7 | 1138.2 | 1152.7 | 1209.7 | 1273.9 | 1321.0 | 1371.7 | 1387.0 | 1357.2 |
| 80°   | 501.7  | 497.2  | 514.4  | 538.8  | 602.6  | 640.6  | 703.5  | 770.9  | 813.9  | 864.1  | 810.2  |
| 82.5° | 99.1   | 104.5  | 120.8  | 149.3  | 184.1  | 231.6  | 272.8  | 319.4  | 361.5  | 380.5  | 361.0  |
| 85°   | 40.3   | 43.9   | 49.8   | 55.6   | 59.7   | 67.0   | 78.7   | 97.7   | 107.7  | 109.0  | 103.6  |
| 87.5° | 16.7   | 19.5   | 26.2   | 31.2   | 31.7   | 30.3   | 31.2   | 32.1   | 26.2   | 21.3   | 26.7   |
| 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°    | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  |
| 2.5°  | 400.8  | 401.3  | 400.8  | 401.3  | 400.8  | 400.8  | 401.3  | 400.8  |
| 5°    | 410.8  | 411.2  | 410.8  | 410.3  | 409.9  | 410.3  | 410.3  | 410.3  |
| 7.5°  | 424.8  | 424.3  | 423.9  | 423.9  | 423.4  | 423.0  | 423.9  | 423.9  |
| 10°   | 442.0  | 441.5  | 440.6  | 440.6  | 440.2  | 440.2  | 440.2  | 440.2  |
| 12.5° | 462.8  | 461.4  | 461.0  | 459.6  | 459.2  | 458.7  | 458.7  | 459.2  |
| 15°   | 484.5  | 483.2  | 482.7  | 480.4  | 480.4  | 480.0  | 480.0  | 480.0  |
| 17.5° | 507.6  | 506.2  | 504.4  | 504.4  | 503.1  | 502.2  | 502.6  | 501.7  |
| 20°   | 531.1  | 529.3  | 528.4  | 527.9  | 526.1  | 526.1  | 526.1  | 525.7  |
| 22.5° | 554.2  | 552.8  | 551.5  | 549.7  | 547.9  | 547.4  | 547.4  | 546.9  |
| 25°   | 577.7  | 575.4  | 572.7  | 570.9  | 569.1  | 567.8  | 567.8  | 567.8  |
| 27.5° | 601.2  | 598.5  | 594.4  | 592.2  | 589.5  | 588.1  | 588.1  | 587.7  |
| 30°   | 626.1  | 622.9  | 619.3  | 616.2  | 612.5  | 611.2  | 610.7  | 609.8  |
| 32.5° | 656.0  | 652.8  | 649.2  | 644.7  | 641.0  | 638.8  | 638.8  | 637.4  |
| 35°   | 694.0  | 690.4  | 687.6  | 681.8  | 677.2  | 673.6  | 674.1  | 675.0  |
| 37.5° | 743.7  | 739.2  | 737.0  | 729.7  | 723.8  | 720.2  | 720.2  | 719.8  |
| 40°   | 807.1  | 802.6  | 797.6  | 790.8  | 783.6  | 778.6  | 777.2  | 777.2  |
| 42.5° | 887.6  | 883.5  | 876.7  | 867.2  | 858.6  | 853.2  | 848.7  | 849.1  |
| 45°   | 988.5  | 983.5  | 974.0  | 962.2  | 951.8  | 944.2  | 937.8  | 937.8  |
| 47.5° | 1111.1 | 1100.7 | 1087.6 | 1077.2 | 1059.5 | 1047.7 | 1043.2 | 1042.3 |
| 50°   | 1250.9 | 1231.4 | 1215.1 | 1200.2 | 1181.7 | 1169.4 | 1162.7 | 1160.8 |
| 52.5° | 1397.5 | 1377.1 | 1356.7 | 1337.3 | 1314.7 | 1302.0 | 1291.1 | 1290.2 |
| 55°   | 1556.7 | 1530.9 | 1505.1 | 1486.1 | 1459.4 | 1446.3 | 1435.5 | 1429.1 |
| 57.5° | 1719.1 | 1690.2 | 1671.6 | 1644.5 | 1616.4 | 1606.9 | 1596.5 | 1588.8 |
| 60°   | 1901.9 | 1870.2 | 1845.8 | 1817.3 | 1799.2 | 1778.8 | 1768.9 | 1763.0 |
| 62.5° | 2088.7 | 2059.3 | 2028.1 | 2000.9 | 1975.6 | 1961.6 | 1948.0 | 1941.2 |
| 65°   | 2278.7 | 2230.3 | 2193.2 | 2155.7 | 2125.8 | 2100.5 | 2079.2 | 2076.5 |
| 67.5° | 2395.4 | 2334.4 | 2272.4 | 2217.6 | 2173.8 | 2138.0 | 2116.3 | 2108.6 |
| 69°   | 2404.9 | 2338.4 | 2261.1 | 2195.5 | 2144.8 | 2110.4 | 2084.6 | 2076.5 |
| 70°   | 2378.7 | 2311.7 | 2230.3 | 2159.7 | 2107.3 | 2069.7 | 2048.4 | 2034.9 |
| 72.5° | 2186.9 | 2128.1 | 2049.8 | 1980.1 | 1932.6 | 1888.8 | 1867.5 | 1862.1 |
| 75°   | 1804.2 | 1741.7 | 1669.8 | 1636.3 | 1603.3 | 1575.7 | 1561.2 | 1559.9 |
| 77.5° | 1281.2 | 1217.4 | 1162.7 | 1118.8 | 1083.0 | 1065.4 | 1069.5 | 1054.5 |
| 80°   | 733.3  | 650.1  | 584.0  | 545.1  | 492.2  | 460.5  | 424.8  | 450.6  |
| 82.5° | 315.3  | 254.7  | 194.1  | 157.9  | 120.3  | 95.5   | 78.7   | 73.3   |
| 85°   | 88.2   | 71.9   | 60.2   | 55.2   | 49.8   | 44.3   | 37.5   | 34.8   |
| 87.5° | 29.9   | 28.5   | 25.3   | 25.3   | 23.1   | 19.5   | 13.6   | 12.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)