

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: LUMARK

Report Number: P144330

Luminaire Tested: **LDRV-5XQ-E02-E**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144330  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRV-5XQ-E02-E  
Description: RIDGEVIEW LED AREA/SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6184.2 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

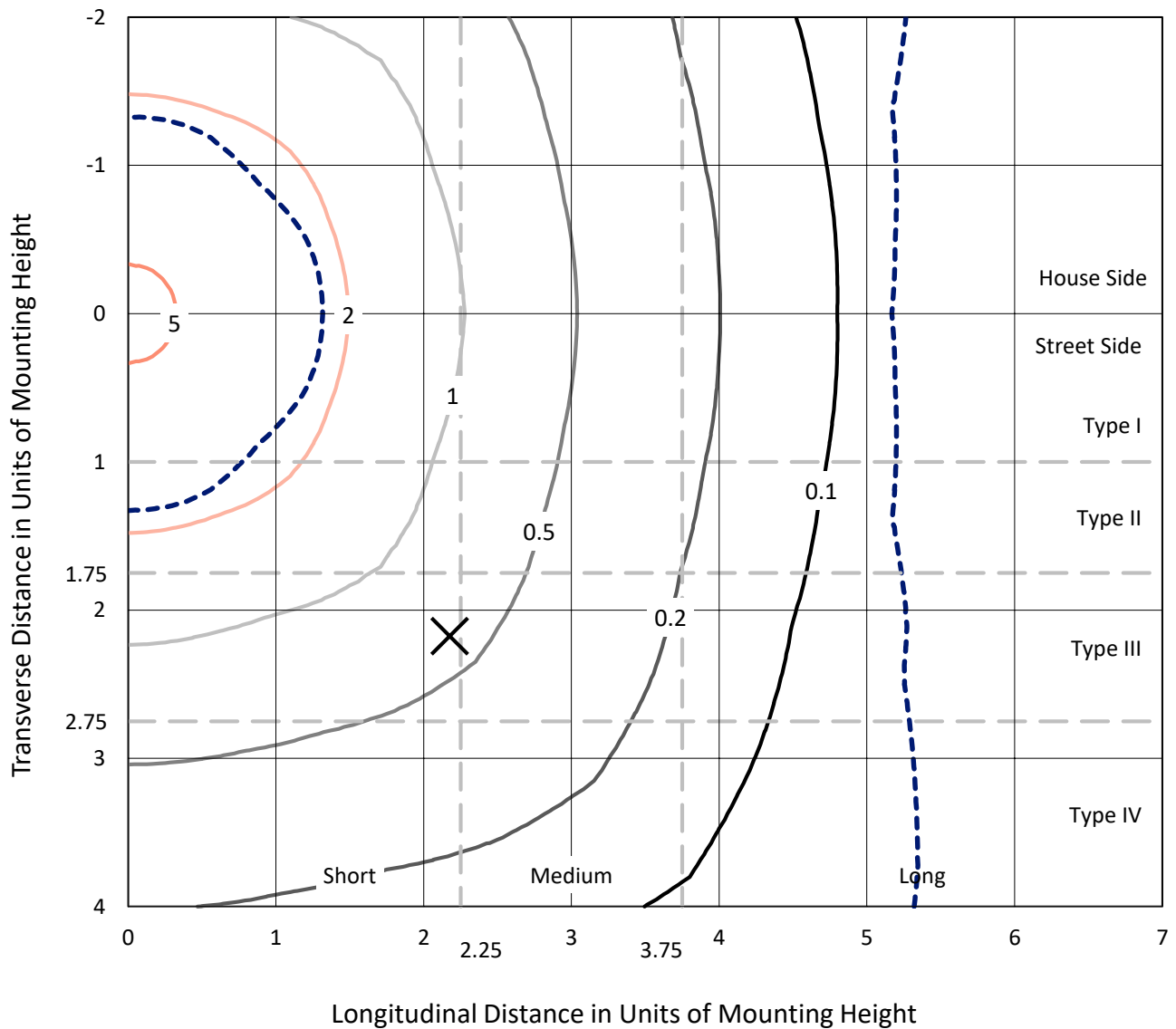
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

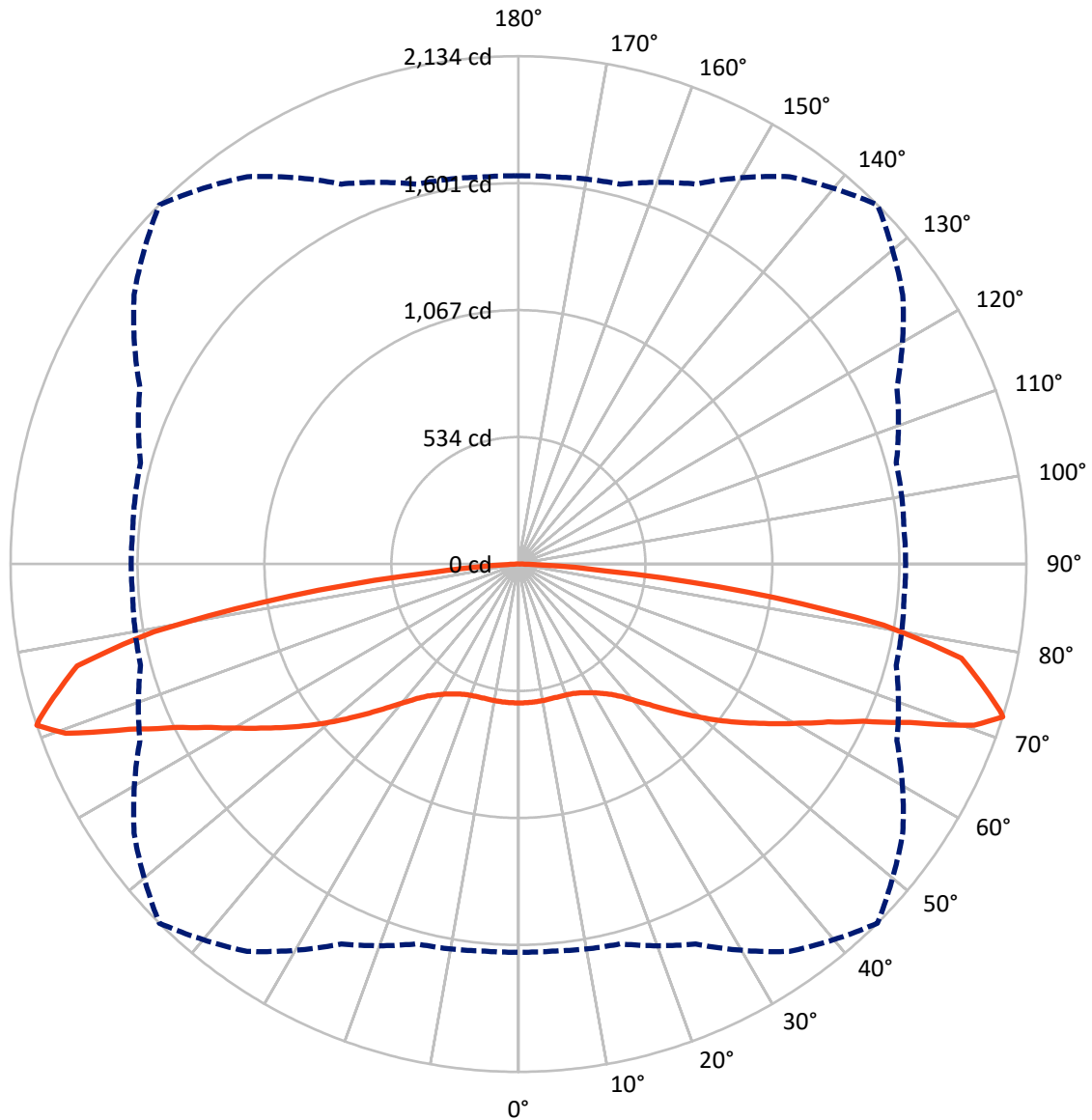
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3092.1   | 0.0    | 3092.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3092.1   | 0.0    | 3092.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6184.2   | 0.0    | 6184.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.7   | 0.9       |
| 10°-20°   | 165.6  | 2.7       |
| 20°-30°   | 278.1  | 4.5       |
| 30°-40°   | 423.3  | 6.8       |
| 40°-50°   | 669.2  | 10.8      |
| 50°-60°   | 1022.1 | 16.5      |
| 60°-70°   | 1497.4 | 24.2      |
| 70°-80°   | 1701.2 | 27.5      |
| 80°-90°   | 371.6  | 6.0       |
| 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°    | 6184.2 | 100.0     |
| 0°-180°   | 6184.2 | 100.0     |



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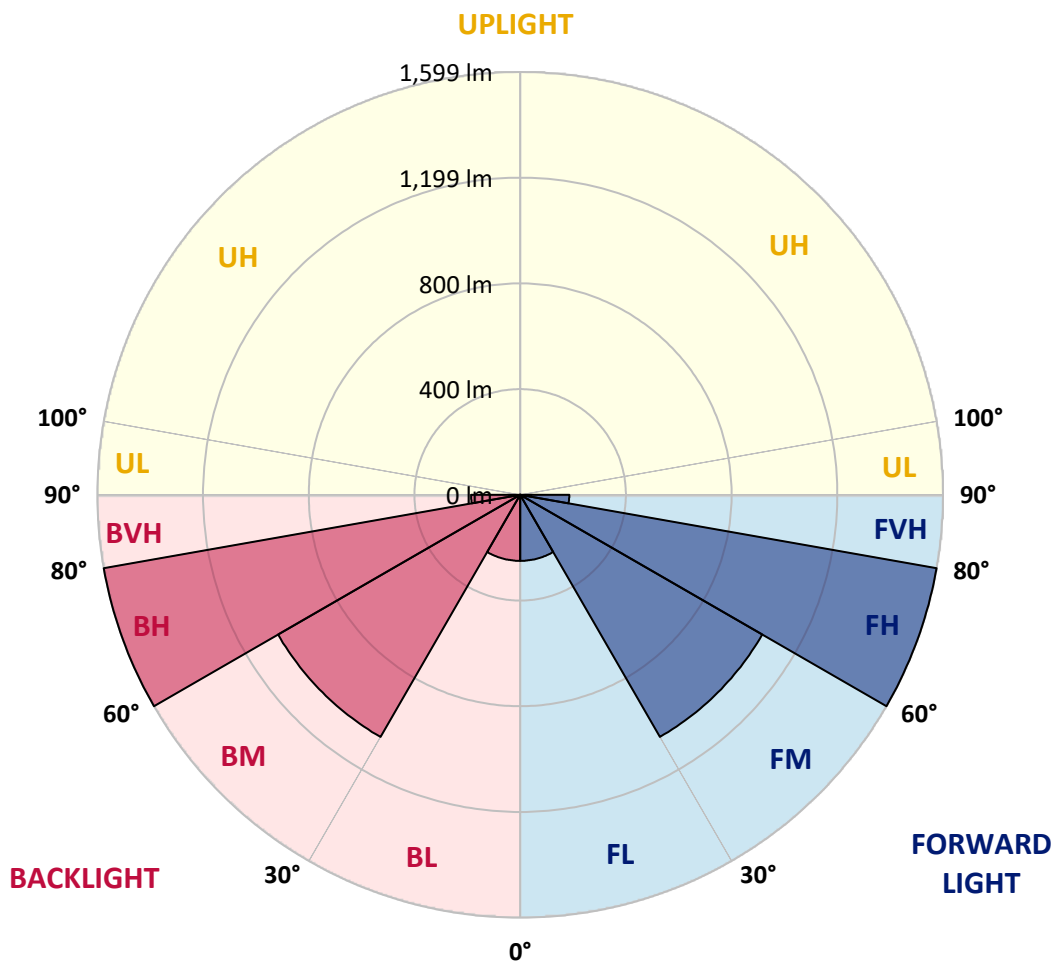
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 249.7  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 1057.3 | 17.1      |                         |      |         |
| FH   | (60°-80°)   | 1599.3 | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 185.8  | 3.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 249.7  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1057.3 | 17.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1599.3 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 185.8  | 3.0       |                         |      | G2/225  |
| 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°    | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  |
| 2.5°  | 585.2  | 585.0  | 584.6  | 584.2  | 584.0  | 583.8  | 583.8  | 583.8  | 583.7  | 583.6  | 583.7  |
| 5°    | 585.2  | 585.0  | 584.7  | 584.4  | 584.1  | 583.8  | 583.8  | 583.8  | 583.7  | 583.6  | 583.8  |
| 7.5°  | 584.4  | 584.6  | 584.3  | 584.0  | 583.9  | 583.8  | 583.7  | 583.6  | 583.4  | 583.2  | 583.3  |
| 10°   | 584.6  | 585.4  | 584.8  | 584.2  | 584.0  | 583.8  | 583.4  | 583.0  | 582.9  | 582.8  | 582.6  |
| 12.5° | 585.0  | 585.8  | 585.1  | 584.4  | 584.1  | 583.8  | 583.4  | 583.0  | 582.7  | 582.4  | 582.1  |
| 15°   | 586.2  | 586.8  | 586.2  | 585.6  | 585.0  | 584.4  | 584.0  | 583.6  | 583.0  | 582.4  | 582.1  |
| 17.5° | 587.0  | 588.0  | 587.3  | 586.6  | 585.9  | 585.2  | 584.8  | 584.4  | 584.0  | 583.6  | 583.1  |
| 20°   | 588.4  | 589.4  | 588.8  | 588.2  | 587.8  | 587.4  | 587.1  | 586.8  | 586.5  | 586.2  | 585.5  |
| 22.5° | 591.0  | 591.8  | 591.6  | 591.4  | 591.5  | 591.6  | 591.7  | 591.8  | 591.6  | 591.4  | 590.7  |
| 25°   | 596.4  | 596.4  | 596.8  | 597.2  | 597.8  | 598.4  | 598.9  | 599.4  | 599.7  | 600.0  | 599.1  |
| 27.5° | 605.8  | 606.6  | 606.9  | 607.2  | 608.2  | 609.2  | 610.3  | 611.4  | 612.0  | 612.6  | 611.7  |
| 30°   | 618.0  | 618.0  | 618.7  | 619.4  | 621.1  | 622.8  | 624.2  | 625.6  | 626.7  | 627.8  | 627.1  |
| 32.5° | 633.6  | 634.6  | 635.6  | 636.6  | 638.7  | 640.8  | 643.2  | 645.6  | 647.0  | 648.4  | 647.3  |
| 35°   | 657.4  | 658.6  | 659.6  | 660.6  | 662.8  | 665.0  | 667.7  | 670.4  | 671.6  | 672.8  | 672.1  |
| 37.5° | 691.0  | 691.0  | 692.4  | 693.8  | 695.2  | 696.6  | 700.2  | 703.8  | 705.3  | 706.8  | 705.6  |
| 40°   | 736.4  | 736.6  | 736.9  | 737.2  | 738.5  | 739.8  | 744.2  | 748.6  | 751.2  | 753.8  | 751.3  |
| 42.5° | 788.6  | 790.8  | 790.7  | 790.6  | 791.5  | 792.4  | 796.6  | 800.8  | 804.5  | 808.2  | 806.7  |
| 45°   | 850.2  | 849.8  | 849.0  | 848.2  | 850.9  | 853.6  | 859.6  | 865.6  | 868.9  | 872.2  | 869.1  |
| 47.5° | 912.4  | 911.8  | 910.7  | 909.6  | 912.3  | 915.0  | 924.0  | 933.0  | 937.7  | 942.4  | 937.4  |
| 50°   | 974.4  | 976.8  | 975.4  | 974.0  | 978.0  | 982.0  | 993.4  | 1004.8 | 1011.7 | 1018.6 | 1012.8 |
| 52.5° | 1043.0 | 1044.8 | 1043.2 | 1041.6 | 1047.1 | 1052.6 | 1066.1 | 1079.6 | 1088.8 | 1098.0 | 1090.2 |
| 55°   | 1114.0 | 1111.8 | 1112.7 | 1113.6 | 1118.8 | 1124.0 | 1140.6 | 1157.2 | 1168.2 | 1179.2 | 1170.4 |
| 57.5° | 1180.4 | 1181.2 | 1180.3 | 1179.4 | 1187.6 | 1195.8 | 1216.7 | 1237.6 | 1251.4 | 1265.2 | 1254.2 |
| 60°   | 1248.4 | 1248.6 | 1246.6 | 1244.6 | 1253.5 | 1262.4 | 1292.4 | 1322.4 | 1340.3 | 1358.2 | 1343.1 |
| 62.5° | 1324.4 | 1324.2 | 1320.7 | 1317.2 | 1327.7 | 1338.2 | 1375.4 | 1412.6 | 1437.2 | 1461.8 | 1443.4 |
| 65°   | 1417.6 | 1415.2 | 1413.2 | 1411.2 | 1423.3 | 1435.4 | 1481.6 | 1527.8 | 1561.0 | 1594.2 | 1570.5 |
| 67.5° | 1555.0 | 1553.2 | 1549.0 | 1544.8 | 1558.3 | 1571.8 | 1631.0 | 1690.2 | 1733.1 | 1776.0 | 1744.7 |
| 70°   | 1706.2 | 1702.8 | 1705.7 | 1708.6 | 1739.8 | 1771.0 | 1850.4 | 1929.8 | 1980.6 | 2031.4 | 1978.8 |
| 72°   | 1631.6 | 1633.0 | 1642.7 | 1652.4 | 1707.1 | 1761.8 | 1874.6 | 1987.4 | 2060.9 | 2134.4 | 2053.1 |
| 72.5° | 1605.6 | 1606.8 | 1617.8 | 1628.8 | 1681.0 | 1733.2 | 1849.5 | 1965.8 | 2041.9 | 2118.0 | 2034.4 |
| 75°   | 1495.2 | 1498.4 | 1511.1 | 1523.8 | 1576.7 | 1629.6 | 1746.9 | 1864.2 | 1937.1 | 2010.0 | 1926.3 |
| 77.5° | 1315.0 | 1325.0 | 1337.9 | 1350.8 | 1413.8 | 1476.8 | 1609.4 | 1742.0 | 1822.5 | 1903.0 | 1808.0 |
| 80°   | 1003.6 | 1000.0 | 1022.2 | 1044.4 | 1104.6 | 1164.8 | 1267.4 | 1370.0 | 1462.7 | 1555.4 | 1448.6 |
| 82.5° | 390.0  | 398.6  | 444.6  | 490.6  | 553.7  | 616.8  | 708.7  | 800.6  | 884.1  | 967.6  | 878.7  |
| 85°   | 40.2   | 45.8   | 62.3   | 78.8   | 113.2  | 147.6  | 203.6  | 259.6  | 314.5  | 369.4  | 309.8  |
| 87.5° | 16.2   | 17.8   | 22.9   | 28.0   | 29.3   | 30.6   | 37.0   | 43.4   | 43.1   | 42.8   | 42.2   |
| 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°    | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  | 584.0  |
| 2.5°  | 583.8  | 584.0  | 584.2  | 584.2  | 584.2  | 584.5  | 584.8  | 584.4  |
| 5°    | 584.0  | 584.1  | 584.2  | 584.2  | 584.2  | 584.5  | 584.8  | 584.4  |
| 7.5°  | 583.4  | 583.4  | 583.4  | 583.7  | 584.0  | 584.1  | 584.2  | 584.0  |
| 10°   | 582.4  | 582.5  | 582.6  | 582.9  | 583.2  | 583.5  | 583.8  | 584.0  |
| 12.5° | 581.8  | 581.9  | 582.0  | 582.3  | 582.6  | 582.9  | 583.2  | 583.6  |
| 15°   | 581.8  | 581.9  | 582.0  | 582.2  | 582.4  | 582.8  | 583.2  | 583.6  |
| 17.5° | 582.6  | 582.4  | 582.2  | 582.4  | 582.6  | 583.1  | 583.6  | 584.0  |
| 20°   | 584.8  | 584.5  | 584.2  | 584.2  | 584.2  | 584.7  | 585.2  | 585.2  |
| 22.5° | 590.0  | 589.0  | 588.0  | 587.8  | 587.6  | 587.7  | 587.8  | 588.0  |
| 25°   | 598.2  | 596.6  | 595.0  | 594.5  | 594.0  | 593.8  | 593.6  | 594.0  |
| 27.5° | 610.8  | 609.0  | 607.2  | 606.1  | 605.0  | 604.4  | 603.8  | 604.0  |
| 30°   | 626.4  | 624.3  | 622.2  | 620.4  | 618.6  | 617.8  | 617.0  | 617.2  |
| 32.5° | 646.2  | 643.7  | 641.2  | 638.8  | 636.4  | 635.3  | 634.2  | 634.4  |
| 35°   | 671.4  | 668.5  | 665.6  | 663.6  | 661.6  | 659.9  | 658.2  | 659.6  |
| 37.5° | 704.4  | 701.7  | 699.0  | 697.7  | 696.4  | 694.9  | 693.4  | 693.6  |
| 40°   | 748.8  | 746.0  | 743.2  | 742.1  | 741.0  | 739.1  | 737.2  | 737.6  |
| 42.5° | 805.2  | 801.0  | 796.8  | 794.8  | 792.8  | 791.9  | 791.0  | 791.6  |
| 45°   | 866.0  | 861.8  | 857.6  | 855.9  | 854.2  | 851.8  | 849.4  | 851.6  |
| 47.5° | 932.4  | 927.1  | 921.8  | 918.8  | 915.8  | 916.6  | 917.4  | 915.6  |
| 50°   | 1007.0 | 998.1  | 989.2  | 985.7  | 982.2  | 982.2  | 982.2  | 982.0  |
| 52.5° | 1082.4 | 1070.1 | 1057.8 | 1054.8 | 1051.8 | 1051.1 | 1050.4 | 1049.6 |
| 55°   | 1161.6 | 1146.5 | 1131.4 | 1125.8 | 1120.2 | 1121.0 | 1121.8 | 1124.0 |
| 57.5° | 1243.2 | 1223.3 | 1203.4 | 1197.0 | 1190.6 | 1191.1 | 1191.6 | 1195.2 |
| 60°   | 1328.0 | 1302.3 | 1276.6 | 1269.5 | 1262.4 | 1264.3 | 1266.2 | 1268.4 |
| 62.5° | 1425.0 | 1393.9 | 1362.8 | 1353.3 | 1343.8 | 1346.2 | 1348.6 | 1354.4 |
| 65°   | 1546.8 | 1508.0 | 1469.2 | 1459.3 | 1449.4 | 1450.5 | 1451.6 | 1461.6 |
| 67.5° | 1713.4 | 1661.7 | 1610.0 | 1600.9 | 1591.8 | 1593.4 | 1595.0 | 1611.2 |
| 70°   | 1926.2 | 1849.6 | 1773.0 | 1735.3 | 1697.6 | 1691.7 | 1685.8 | 1694.4 |
| 72°   | 1971.8 | 1863.6 | 1755.4 | 1699.8 | 1644.2 | 1635.5 | 1626.8 | 1627.6 |
| 72.5° | 1950.8 | 1841.4 | 1732.0 | 1678.0 | 1624.0 | 1616.9 | 1609.8 | 1608.4 |
| 75°   | 1842.6 | 1735.6 | 1628.6 | 1572.8 | 1517.0 | 1503.5 | 1490.0 | 1490.0 |
| 77.5° | 1713.0 | 1578.1 | 1443.2 | 1383.0 | 1322.8 | 1308.7 | 1294.6 | 1283.6 |
| 80°   | 1341.8 | 1220.9 | 1100.0 | 1038.9 | 977.8  | 955.2  | 932.6  | 919.2  |
| 82.5° | 789.8  | 678.6  | 567.4  | 489.8  | 412.2  | 388.9  | 365.6  | 333.2  |
| 85°   | 250.2  | 192.5  | 134.8  | 105.2  | 75.6   | 61.1   | 46.6   | 40.8   |
| 87.5° | 41.6   | 33.8   | 26.0   | 25.1   | 24.2   | 19.0   | 13.8   | 11.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)