

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: P144188

Luminaire Tested: **RDG-E02-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P144188  
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-E02-LED-E-U-5WQ-8030  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5174.6 lumens  
Efficiency: N/A  
Efficacy: 99.3 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 (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



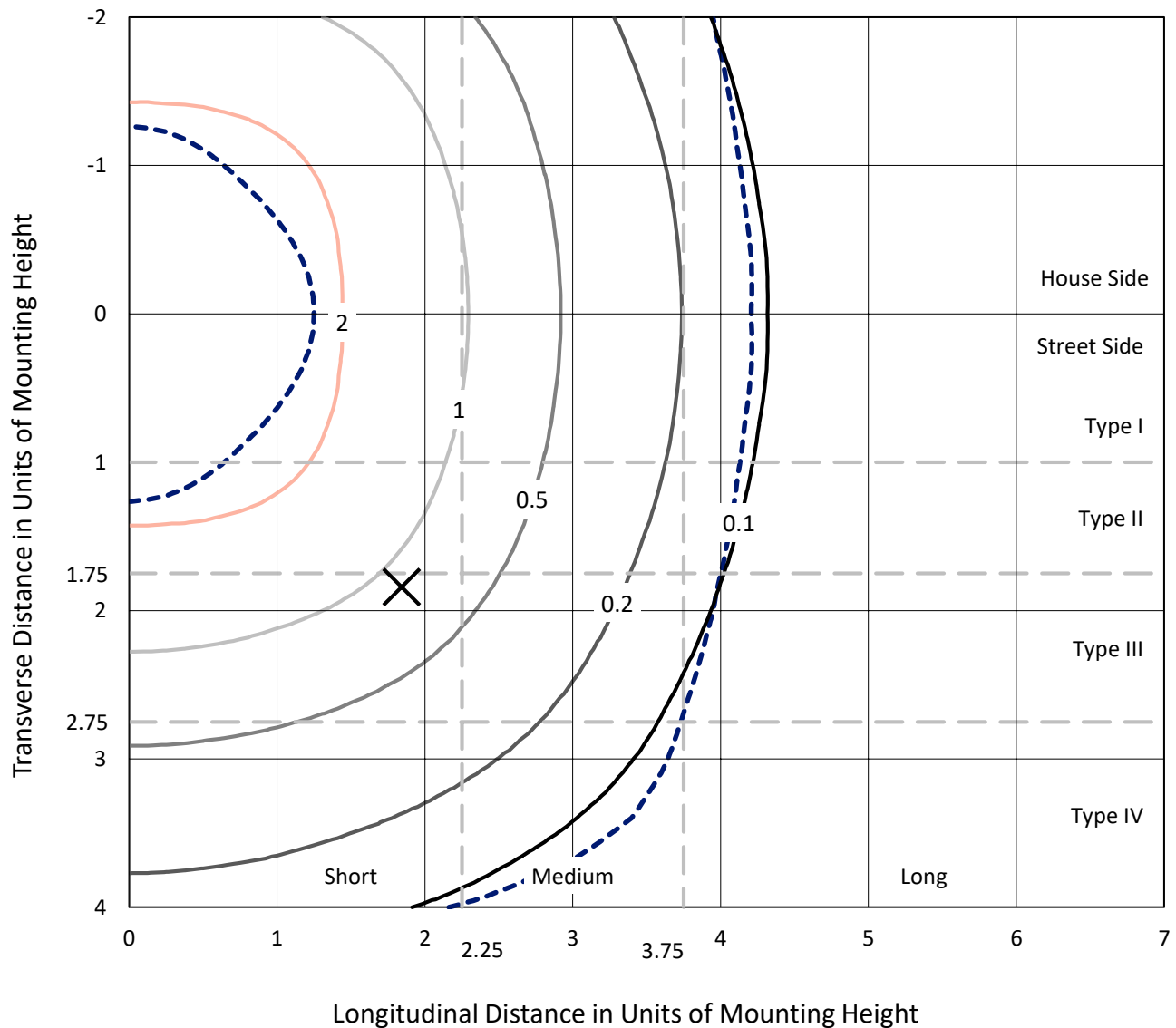
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## Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



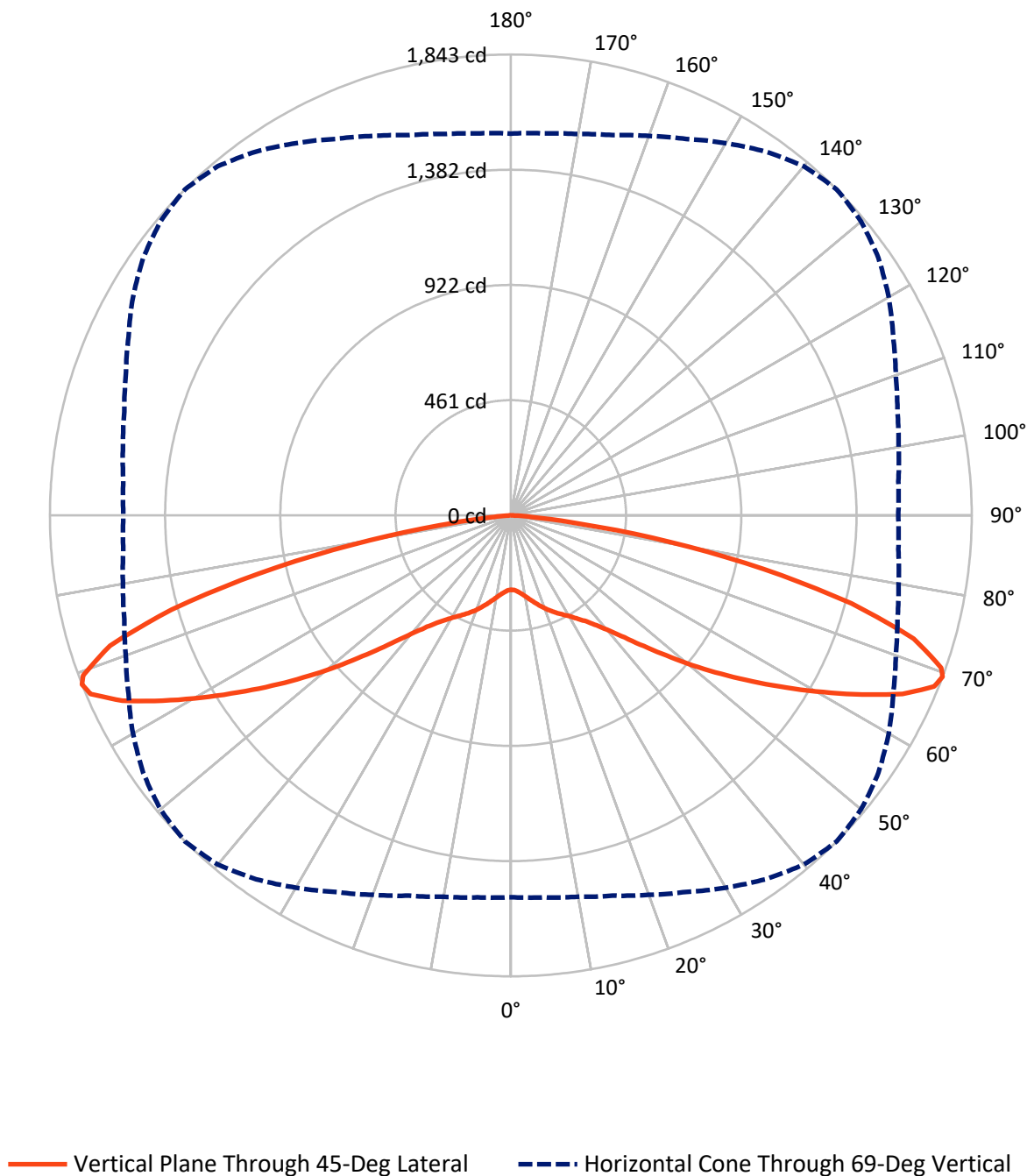
Based on 10 foot mounting height. Maximum calculated value = 3.3 fc

Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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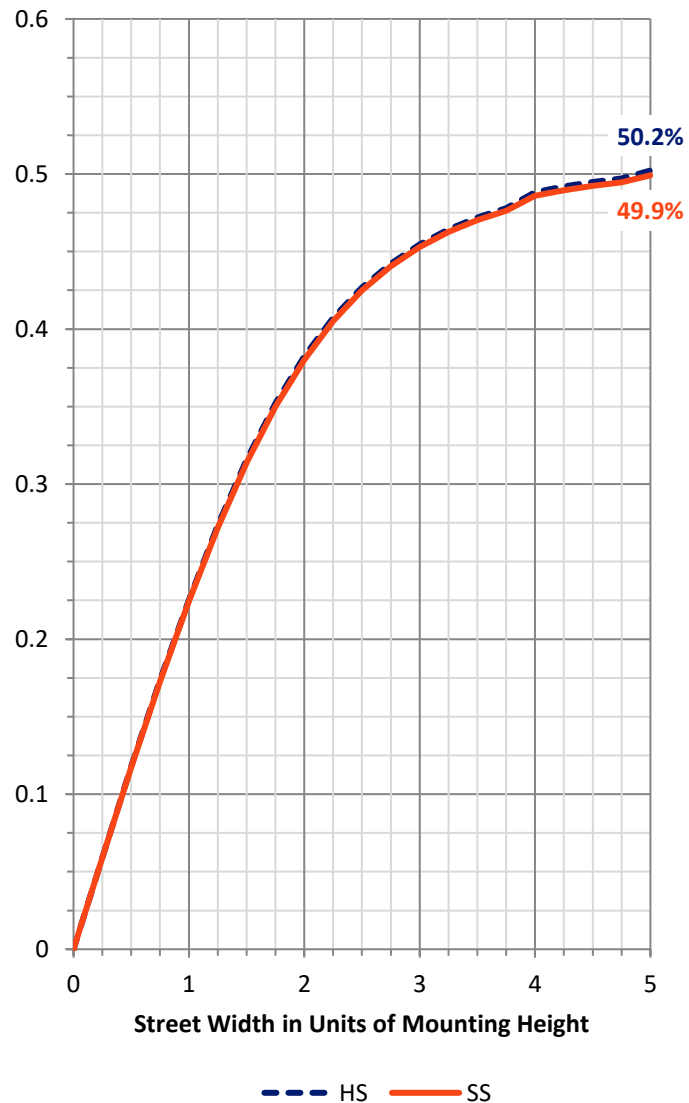
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2587.3   | 0.0    | 2587.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2587.3   | 0.0    | 2587.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5174.6   | 0.0    | 5174.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.0   | 0.6       |
| 10°-20°   | 103.4  | 2.0       |
| 20°-30°   | 199.3  | 3.9       |
| 30°-40°   | 326.6  | 6.3       |
| 40°-50°   | 568.0  | 11.0      |
| 50°-60°   | 1008.9 | 19.5      |
| 60°-70°   | 1566.4 | 30.3      |
| 70°-80°   | 1248.0 | 24.1      |
| 80°-90°   | 124.1  | 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°    | 5174.6 | 100.0     |
| 0°-180°   | 5174.6 | 100.0     |

**Coefficient of Utilization**



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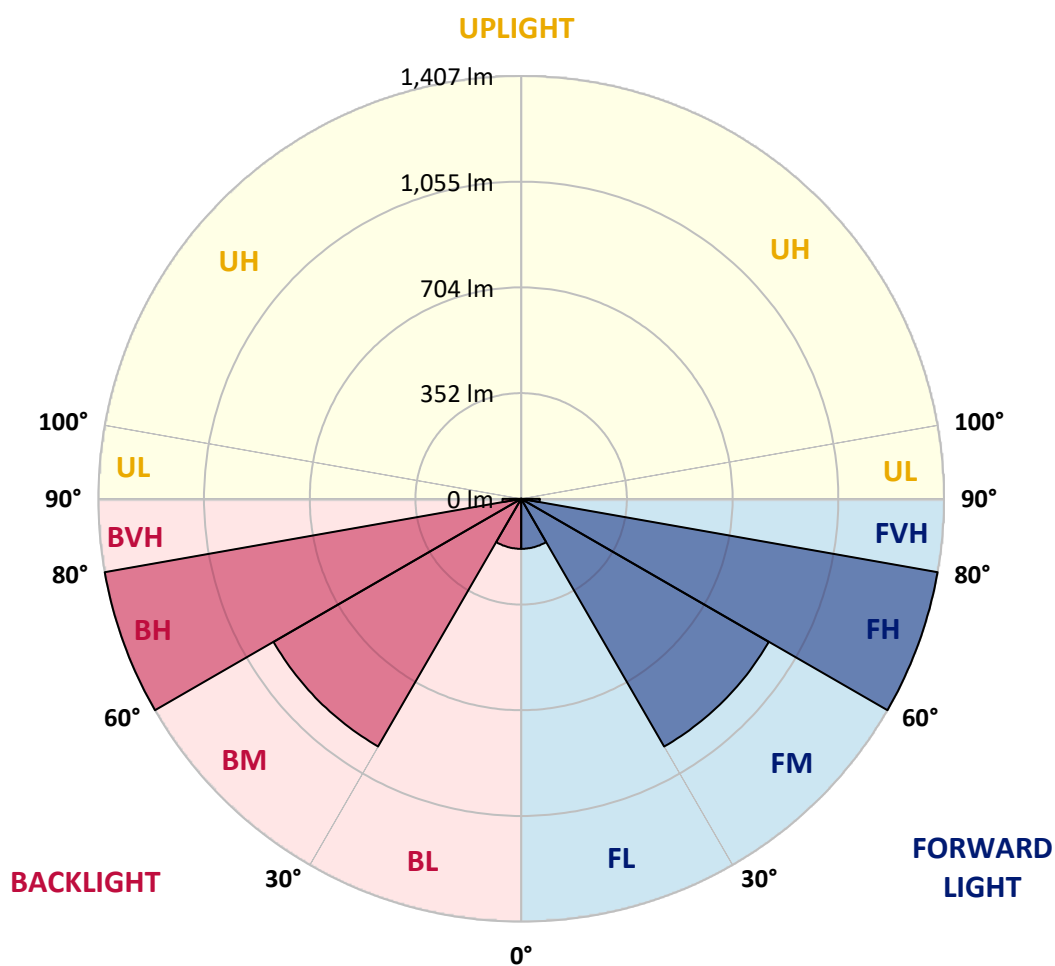
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 166.4  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 951.7  | 18.4      |                         |      |         |
| FH   | (60°-80°)   | 1407.2 | 27.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 62.0   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 166.4  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 951.7  | 18.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1407.2 | 27.2      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 62.0   | 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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  |
| 2.5°  | 299.8  | 299.8  | 299.8  | 299.4  | 299.4  | 299.1  | 299.4  | 299.1  | 299.1  | 299.1  | 299.1  |
| 5°    | 307.6  | 306.9  | 306.9  | 306.5  | 307.2  | 307.2  | 306.5  | 306.9  | 306.5  | 306.9  | 306.9  |
| 7.5°  | 317.3  | 317.3  | 317.3  | 317.0  | 317.7  | 317.3  | 317.0  | 317.3  | 317.3  | 317.0  | 317.0  |
| 10°   | 329.5  | 329.8  | 329.5  | 329.5  | 330.5  | 330.2  | 330.5  | 330.5  | 330.8  | 330.5  | 330.5  |
| 12.5° | 343.7  | 343.7  | 344.0  | 344.3  | 344.7  | 345.0  | 346.0  | 345.7  | 346.4  | 345.7  | 345.7  |
| 15°   | 360.2  | 360.9  | 360.2  | 360.2  | 361.2  | 361.9  | 362.2  | 362.2  | 362.9  | 362.6  | 361.9  |
| 17.5° | 377.8  | 378.1  | 377.8  | 377.4  | 378.4  | 379.5  | 379.8  | 379.8  | 380.8  | 380.1  | 380.1  |
| 20°   | 395.7  | 396.0  | 395.3  | 395.0  | 396.3  | 396.3  | 397.0  | 397.4  | 398.4  | 398.7  | 397.7  |
| 22.5° | 412.2  | 412.5  | 412.2  | 411.9  | 413.2  | 413.2  | 414.2  | 414.6  | 415.9  | 415.6  | 415.6  |
| 25°   | 428.4  | 428.4  | 428.1  | 428.1  | 429.4  | 429.8  | 430.8  | 431.4  | 432.8  | 432.8  | 432.8  |
| 27.5° | 443.3  | 443.6  | 442.9  | 442.6  | 445.3  | 446.3  | 447.0  | 448.3  | 449.3  | 450.0  | 449.7  |
| 30°   | 460.1  | 460.1  | 459.8  | 460.8  | 462.5  | 463.9  | 465.2  | 467.2  | 469.3  | 468.6  | 468.6  |
| 32.5° | 480.1  | 480.7  | 480.4  | 481.8  | 483.8  | 485.8  | 487.5  | 489.9  | 490.9  | 492.6  | 491.2  |
| 35°   | 506.7  | 508.1  | 507.4  | 508.8  | 510.4  | 511.8  | 515.5  | 517.9  | 519.6  | 520.6  | 519.9  |
| 37.5° | 540.2  | 539.5  | 540.8  | 541.2  | 544.5  | 546.2  | 550.6  | 554.0  | 556.7  | 557.7  | 557.0  |
| 40°   | 581.7  | 580.7  | 582.4  | 584.0  | 588.4  | 590.1  | 595.2  | 600.2  | 604.0  | 605.3  | 604.6  |
| 42.5° | 631.3  | 632.7  | 635.4  | 637.7  | 643.8  | 648.5  | 654.3  | 661.7  | 665.7  | 667.4  | 665.1  |
| 45°   | 696.5  | 694.1  | 699.2  | 705.2  | 708.6  | 719.1  | 728.5  | 736.3  | 743.0  | 745.8  | 743.0  |
| 47.5° | 770.7  | 770.4  | 776.5  | 783.9  | 792.7  | 802.5  | 813.6  | 823.7  | 835.6  | 836.2  | 832.9  |
| 50°   | 852.8  | 859.5  | 862.9  | 870.3  | 886.5  | 898.7  | 912.9  | 928.1  | 938.9  | 942.2  | 936.2  |
| 52.5° | 951.7  | 956.7  | 958.8  | 971.3  | 986.1  | 1001.0 | 1020.9 | 1039.1 | 1051.6 | 1053.0 | 1049.9 |
| 55°   | 1059.0 | 1063.1 | 1066.8 | 1082.0 | 1098.2 | 1111.4 | 1136.7 | 1154.6 | 1167.1 | 1171.8 | 1169.8 |
| 57.5° | 1170.1 | 1173.8 | 1178.5 | 1195.1 | 1211.6 | 1230.2 | 1254.2 | 1275.1 | 1289.6 | 1298.4 | 1296.0 |
| 60°   | 1293.3 | 1293.3 | 1304.1 | 1320.7 | 1334.2 | 1356.1 | 1381.1 | 1405.4 | 1421.3 | 1435.1 | 1431.4 |
| 62.5° | 1423.0 | 1426.7 | 1437.1 | 1450.7 | 1464.8 | 1485.1 | 1513.4 | 1542.5 | 1566.8 | 1577.3 | 1576.9 |
| 65°   | 1521.2 | 1528.0 | 1541.8 | 1557.3 | 1581.0 | 1604.9 | 1640.7 | 1676.8 | 1706.2 | 1721.4 | 1721.4 |
| 67.5° | 1549.9 | 1554.3 | 1571.5 | 1595.1 | 1629.2 | 1667.4 | 1716.0 | 1766.3 | 1806.5 | 1826.4 | 1813.9 |
| 69°   | 1526.9 | 1533.4 | 1548.6 | 1574.2 | 1614.7 | 1661.3 | 1719.0 | 1776.1 | 1822.7 | 1843.3 | 1828.8 |
| 70°   | 1500.3 | 1507.4 | 1522.6 | 1547.9 | 1589.7 | 1639.4 | 1697.1 | 1758.5 | 1808.5 | 1826.1 | 1809.5 |
| 72.5° | 1391.6 | 1400.3 | 1411.2 | 1433.1 | 1470.9 | 1517.5 | 1569.5 | 1623.5 | 1671.4 | 1685.3 | 1664.7 |
| 75°   | 1206.2 | 1207.9 | 1213.3 | 1229.5 | 1243.0 | 1276.1 | 1320.3 | 1363.2 | 1399.3 | 1407.4 | 1385.5 |
| 77.5° | 853.8  | 844.7  | 835.6  | 849.4  | 860.2  | 902.7  | 950.7  | 985.8  | 1023.6 | 1035.1 | 1012.8 |
| 80°   | 374.4  | 371.0  | 383.8  | 402.1  | 449.7  | 478.0  | 525.0  | 575.3  | 607.3  | 644.8  | 604.6  |
| 82.5° | 73.9   | 78.0   | 90.1   | 111.4  | 137.4  | 172.8  | 203.6  | 238.3  | 269.7  | 283.9  | 269.4  |
| 85°   | 30.0   | 32.7   | 37.1   | 41.5   | 44.6   | 50.0   | 58.7   | 72.9   | 80.3   | 81.4   | 77.3   |
| 87.5° | 12.5   | 14.5   | 19.6   | 23.3   | 23.6   | 22.6   | 23.3   | 24.0   | 19.6   | 15.9   | 19.9   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  | 297.4  |
| 2.5°  | 299.1  | 299.4  | 299.1  | 299.4  | 299.1  | 299.1  | 299.4  | 299.1  |
| 5°    | 306.5  | 306.9  | 306.5  | 306.2  | 305.9  | 306.2  | 306.2  | 306.2  |
| 7.5°  | 317.0  | 316.7  | 316.3  | 316.3  | 316.0  | 315.7  | 316.3  | 316.3  |
| 10°   | 329.8  | 329.5  | 328.8  | 328.8  | 328.5  | 328.5  | 328.5  | 328.5  |
| 12.5° | 345.4  | 344.3  | 344.0  | 343.0  | 342.7  | 342.3  | 342.3  | 342.7  |
| 15°   | 361.6  | 360.6  | 360.2  | 358.5  | 358.5  | 358.2  | 358.2  | 358.2  |
| 17.5° | 378.8  | 377.8  | 376.4  | 376.4  | 375.4  | 374.7  | 375.1  | 374.4  |
| 20°   | 396.3  | 395.0  | 394.3  | 394.0  | 392.6  | 392.6  | 392.6  | 392.3  |
| 22.5° | 413.6  | 412.5  | 411.5  | 410.2  | 408.8  | 408.5  | 408.5  | 408.2  |
| 25°   | 431.1  | 429.4  | 427.4  | 426.0  | 424.7  | 423.7  | 423.7  | 423.7  |
| 27.5° | 448.7  | 446.6  | 443.6  | 441.9  | 439.9  | 438.9  | 438.9  | 438.5  |
| 30°   | 467.2  | 464.9  | 462.2  | 459.8  | 457.1  | 456.1  | 455.8  | 455.1  |
| 32.5° | 489.5  | 487.2  | 484.5  | 481.1  | 478.4  | 476.7  | 476.7  | 475.7  |
| 35°   | 517.9  | 515.2  | 513.1  | 508.8  | 505.4  | 502.7  | 503.0  | 503.7  |
| 37.5° | 555.0  | 551.6  | 549.9  | 544.5  | 540.2  | 537.5  | 537.5  | 537.1  |
| 40°   | 602.3  | 598.9  | 595.2  | 590.1  | 584.7  | 581.0  | 580.0  | 580.0  |
| 42.5° | 662.4  | 659.3  | 654.3  | 647.2  | 640.8  | 636.7  | 633.3  | 633.7  |
| 45°   | 737.6  | 733.9  | 726.8  | 718.1  | 710.3  | 704.6  | 699.8  | 699.8  |
| 47.5° | 829.1  | 821.4  | 811.6  | 803.8  | 790.7  | 781.9  | 778.5  | 777.8  |
| 50°   | 933.5  | 918.9  | 906.8  | 895.6  | 881.8  | 872.7  | 867.6  | 866.3  |
| 52.5° | 1042.8 | 1027.6 | 1012.5 | 997.9  | 981.1  | 971.6  | 963.5  | 962.8  |
| 55°   | 1161.7 | 1142.4 | 1123.2 | 1109.0 | 1089.1 | 1079.3 | 1071.2 | 1066.5 |
| 57.5° | 1282.9 | 1261.3 | 1247.4 | 1227.2 | 1206.2 | 1199.1 | 1191.4 | 1185.6 |
| 60°   | 1419.3 | 1395.6 | 1377.4 | 1356.1 | 1342.6 | 1327.4 | 1320.0 | 1315.6 |
| 62.5° | 1558.7 | 1536.7 | 1513.4 | 1493.2 | 1474.3 | 1463.8 | 1453.7 | 1448.6 |
| 65°   | 1700.5 | 1664.4 | 1636.7 | 1608.6 | 1586.4 | 1567.5 | 1551.6 | 1549.6 |
| 67.5° | 1787.6 | 1742.0 | 1695.7 | 1654.9 | 1622.2 | 1595.5 | 1579.3 | 1573.5 |
| 69°   | 1794.7 | 1745.0 | 1687.3 | 1638.4 | 1600.5 | 1574.9 | 1555.6 | 1549.6 |
| 70°   | 1775.1 | 1725.1 | 1664.4 | 1611.7 | 1572.5 | 1544.5 | 1528.6 | 1518.5 |
| 72.5° | 1631.9 | 1588.1 | 1529.6 | 1477.7 | 1442.2 | 1409.5 | 1393.6 | 1389.5 |
| 75°   | 1346.3 | 1299.7 | 1246.1 | 1221.1 | 1196.4 | 1175.8 | 1165.0 | 1164.0 |
| 77.5° | 956.1  | 908.5  | 867.6  | 834.9  | 808.2  | 795.0  | 798.1  | 786.9  |
| 80°   | 547.2  | 485.1  | 435.8  | 406.8  | 367.3  | 343.7  | 317.0  | 336.2  |
| 82.5° | 235.3  | 190.1  | 144.8  | 117.8  | 89.8   | 71.2   | 58.7   | 54.7   |
| 85°   | 65.8   | 53.7   | 44.9   | 41.2   | 37.1   | 33.1   | 28.0   | 26.0   |
| 87.5° | 22.3   | 21.3   | 18.9   | 18.9   | 17.2   | 14.5   | 10.1   | 9.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)