

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: P156957

Luminaire Tested: **UTLD-F02-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P156957  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33665)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-F02-LED-E-U-5WQ-7060  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (14) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4786.8 lumens  
Efficiency: N/A  
Efficacy: 87.0 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): 55  
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



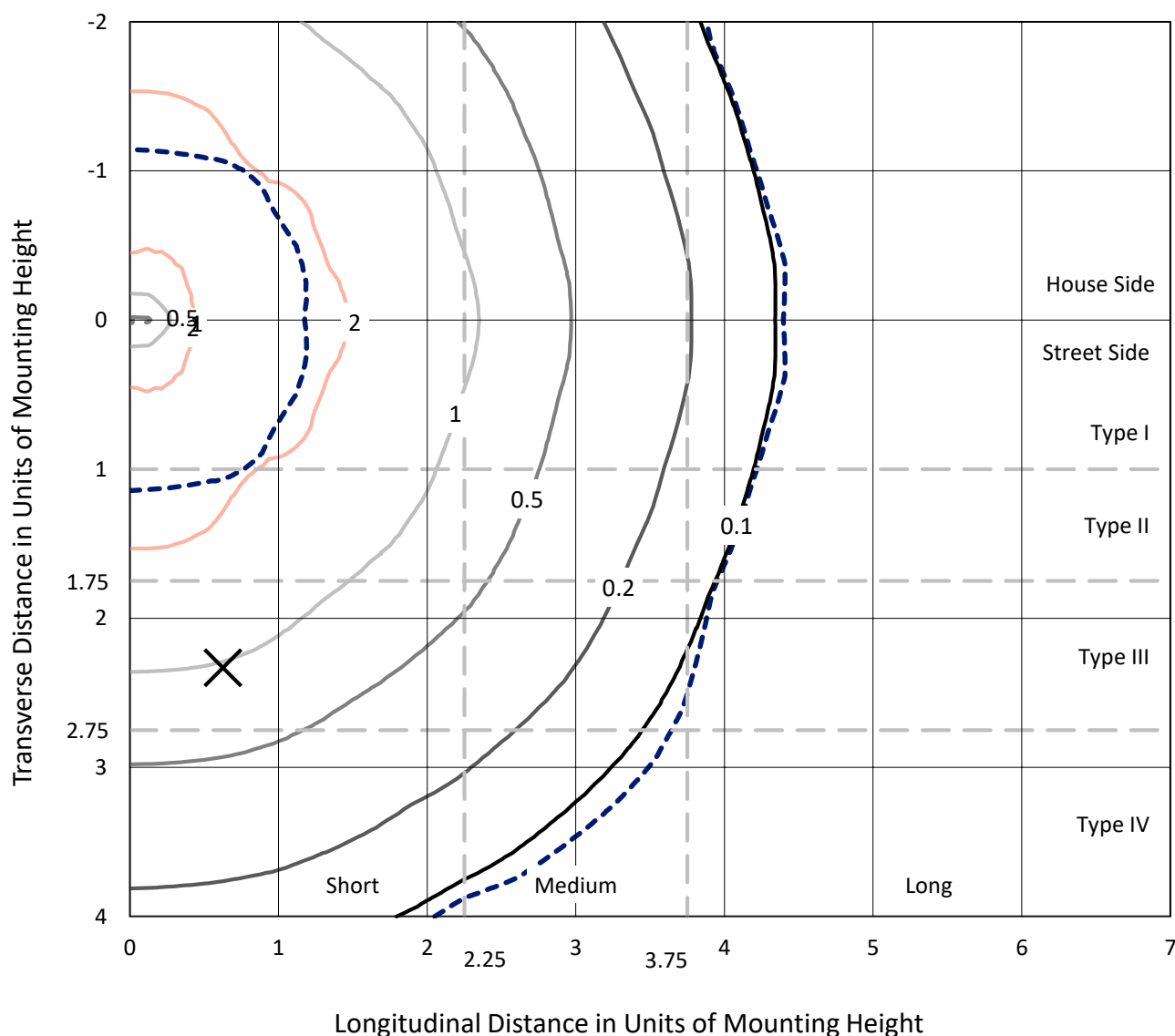
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

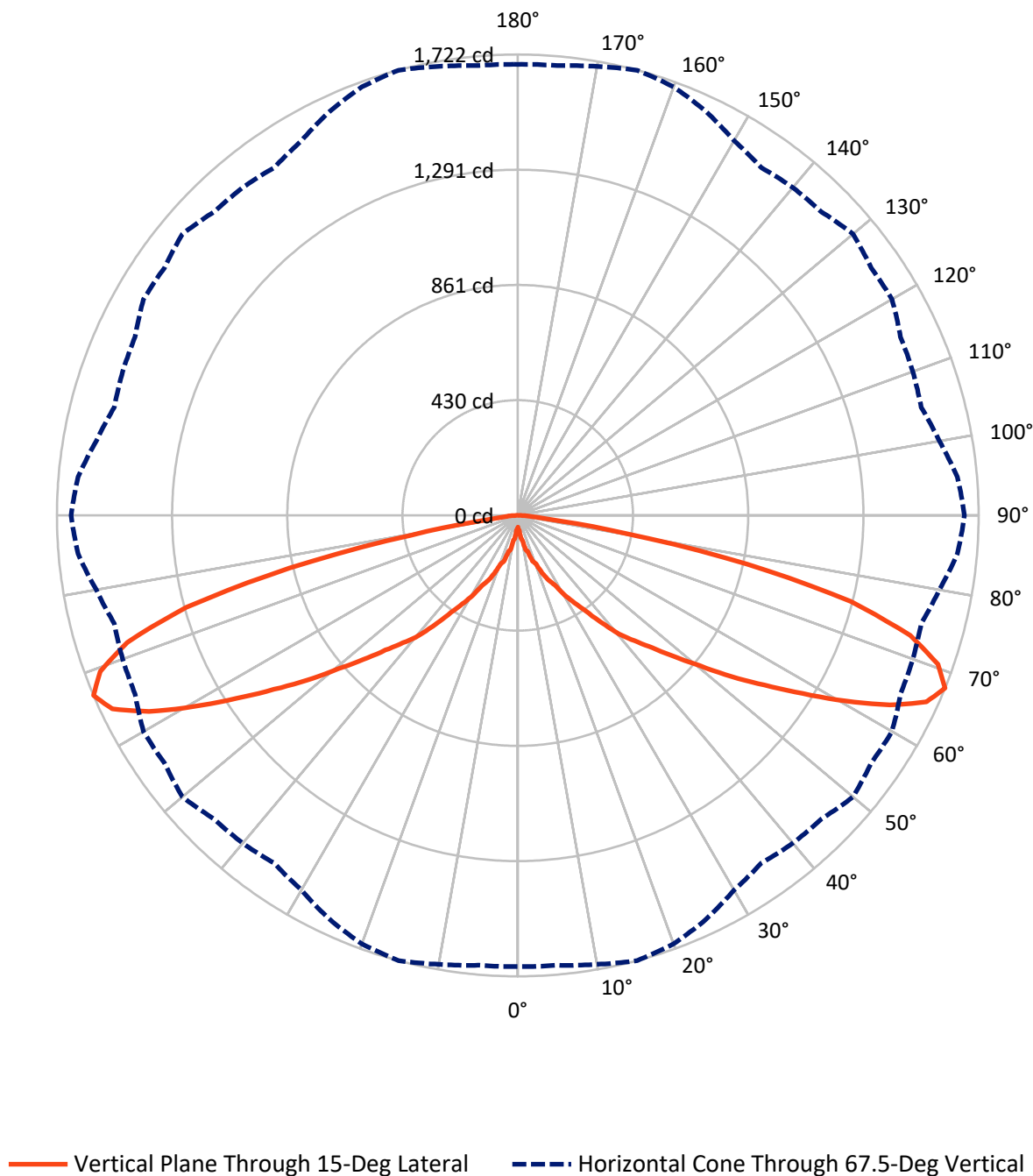


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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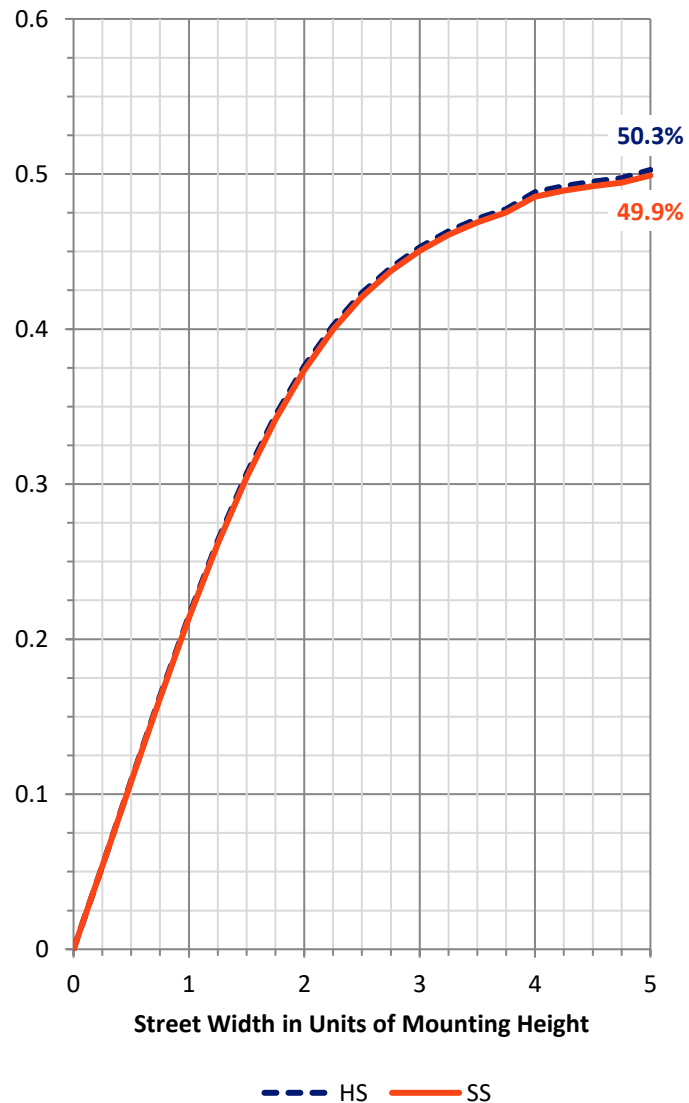
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2393.4   | 0.0    | 2393.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2393.4   | 0.0    | 2393.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4786.8   | 0.0    | 4786.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.4    | 0.1       |
| 10°-20°   | 39.6   | 0.8       |
| 20°-30°   | 131.0  | 2.7       |
| 30°-40°   | 283.3  | 5.9       |
| 40°-50°   | 530.0  | 11.1      |
| 50°-60°   | 961.5  | 20.1      |
| 60°-70°   | 1520.9 | 31.8      |
| 70°-80°   | 1195.9 | 25.0      |
| 80°-90°   | 118.2  | 2.5       |
| 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°    | 4786.8 | 100.0     |
| 0°-180°   | 4786.8 | 100.0     |

**Coefficient of Utilization**



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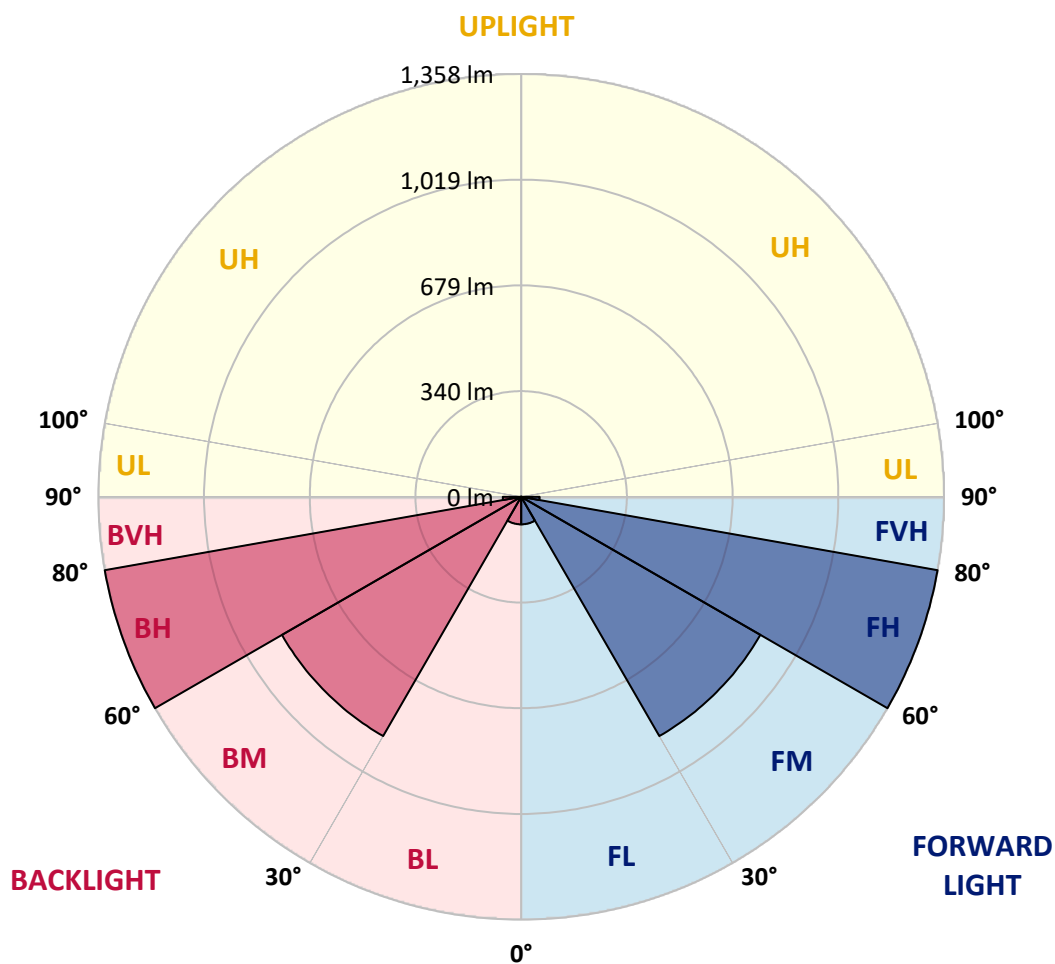
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 88.5   | 1.8       |                         |      |         |
| FM   | (30°-60°)   | 887.4  | 18.5      |                         |      |         |
| FH   | (60°-80°)   | 1358.4 | 28.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 59.1   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 88.5   | 1.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 887.4  | 18.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1358.4 | 28.4      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 59.1   | 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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   |
| 2.5°  | 69.0   | 68.8   | 68.8   | 68.8   | 69.7   | 67.6   | 64.4   | 62.0   | 60.6   | 60.4   | 58.9   |
| 5°    | 54.6   | 54.4   | 54.4   | 54.6   | 54.4   | 55.0   | 54.8   | 56.3   | 56.1   | 59.9   | 65.0   |
| 7.5°  | 87.6   | 88.1   | 87.9   | 86.8   | 84.7   | 78.6   | 73.9   | 70.1   | 58.9   | 57.4   | 55.7   |
| 10°   | 94.8   | 94.9   | 94.8   | 93.4   | 93.6   | 93.6   | 92.8   | 91.1   | 89.8   | 87.1   | 74.1   |
| 12.5° | 131.3  | 131.7  | 131.9  | 131.1  | 128.3  | 115.6  | 112.0  | 99.8   | 97.2   | 113.7  | 117.3  |
| 15°   | 141.9  | 142.6  | 142.1  | 139.8  | 138.9  | 137.4  | 135.1  | 145.3  | 148.4  | 135.6  | 126.0  |
| 17.5° | 181.7  | 182.4  | 181.5  | 180.0  | 176.4  | 165.4  | 168.8  | 165.6  | 163.7  | 161.0  | 170.3  |
| 20°   | 209.2  | 210.5  | 201.0  | 192.5  | 187.2  | 195.7  | 205.8  | 201.6  | 190.4  | 191.6  | 197.2  |
| 22.5° | 238.8  | 238.9  | 238.0  | 233.6  | 233.6  | 244.8  | 226.2  | 222.4  | 236.1  | 219.8  | 213.7  |
| 25°   | 288.5  | 287.2  | 284.6  | 267.5  | 262.0  | 260.7  | 257.1  | 264.9  | 254.1  | 275.7  | 288.4  |
| 27.5° | 306.6  | 305.4  | 299.0  | 293.8  | 307.5  | 303.0  | 297.7  | 277.6  | 319.5  | 299.0  | 305.8  |
| 30°   | 354.0  | 354.1  | 348.6  | 345.0  | 348.2  | 328.0  | 321.2  | 345.0  | 338.2  | 341.0  | 371.4  |
| 32.5° | 415.9  | 416.4  | 409.2  | 389.0  | 370.6  | 374.2  | 371.0  | 372.7  | 383.3  | 380.5  | 398.3  |
| 35°   | 484.1  | 466.9  | 455.3  | 440.0  | 429.6  | 425.0  | 418.9  | 405.6  | 421.0  | 417.6  | 436.0  |
| 37.5° | 523.9  | 525.6  | 516.1  | 507.2  | 500.4  | 470.8  | 458.1  | 463.4  | 464.0  | 455.3  | 487.3  |
| 40°   | 606.1  | 606.9  | 593.0  | 582.6  | 571.6  | 533.9  | 513.6  | 508.5  | 509.7  | 511.0  | 533.4  |
| 42.5° | 660.3  | 660.3  | 649.3  | 639.9  | 620.9  | 596.2  | 575.4  | 565.0  | 567.3  | 564.8  | 589.0  |
| 45°   | 724.2  | 725.5  | 716.8  | 705.2  | 684.6  | 670.5  | 639.8  | 632.6  | 633.4  | 629.4  | 656.1  |
| 47.5° | 805.6  | 805.3  | 802.0  | 789.0  | 772.1  | 747.6  | 726.2  | 708.4  | 710.2  | 707.7  | 735.5  |
| 50°   | 900.9  | 900.9  | 898.8  | 882.4  | 872.5  | 846.4  | 818.7  | 796.6  | 795.6  | 795.9  | 827.4  |
| 52.5° | 1007.2 | 1008.4 | 1011.6 | 1000.4 | 985.4  | 949.4  | 916.1  | 893.0  | 891.8  | 894.1  | 931.2  |
| 55°   | 1125.8 | 1131.7 | 1130.8 | 1118.4 | 1108.8 | 1068.4 | 1024.1 | 1002.3 | 996.4  | 1001.0 | 1037.9 |
| 57.5° | 1258.8 | 1261.8 | 1265.1 | 1255.4 | 1232.1 | 1195.9 | 1135.7 | 1117.7 | 1108.0 | 1117.5 | 1156.2 |
| 60°   | 1406.2 | 1413.2 | 1412.3 | 1407.6 | 1381.1 | 1341.4 | 1259.2 | 1242.0 | 1236.5 | 1241.2 | 1283.7 |
| 62.5° | 1561.2 | 1561.4 | 1570.2 | 1560.1 | 1534.9 | 1495.3 | 1401.9 | 1371.8 | 1364.0 | 1367.8 | 1413.6 |
| 65°   | 1669.6 | 1670.8 | 1680.8 | 1678.5 | 1659.0 | 1616.4 | 1547.6 | 1497.6 | 1498.5 | 1503.4 | 1545.7 |
| 67.5° | 1685.2 | 1686.8 | 1703.0 | 1721.9 | 1703.2 | 1664.7 | 1616.2 | 1585.9 | 1598.8 | 1604.0 | 1635.5 |
| 70°   | 1622.2 | 1625.3 | 1644.8 | 1665.2 | 1661.3 | 1631.9 | 1588.7 | 1578.1 | 1591.0 | 1601.8 | 1631.6 |
| 72.5° | 1498.5 | 1500.2 | 1514.6 | 1533.2 | 1518.4 | 1492.8 | 1443.4 | 1461.2 | 1459.3 | 1473.5 | 1502.9 |
| 75°   | 1271.9 | 1265.9 | 1280.6 | 1285.4 | 1260.2 | 1233.8 | 1193.1 | 1222.1 | 1209.6 | 1221.7 | 1236.7 |
| 77.5° | 854.7  | 848.8  | 854.5  | 875.4  | 857.7  | 855.1  | 844.6  | 876.9  | 882.2  | 889.8  | 890.9  |
| 80°   | 330.4  | 342.0  | 371.9  | 405.1  | 414.6  | 439.8  | 460.2  | 497.2  | 522.0  | 542.4  | 532.0  |
| 82.5° | 65.2   | 71.6   | 86.6   | 105.0  | 125.8  | 151.2  | 181.9  | 213.5  | 244.2  | 260.3  | 247.6  |
| 85°   | 23.7   | 28.6   | 36.2   | 42.6   | 44.9   | 48.3   | 54.0   | 65.0   | 75.8   | 77.9   | 78.8   |
| 87.5° | 6.4    | 11.0   | 20.6   | 27.8   | 28.0   | 25.2   | 26.7   | 28.0   | 24.6   | 19.5   | 26.5   |
| 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°    | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   | 44.0   |
| 2.5°  | 57.2   | 52.9   | 48.7   | 46.4   | 45.5   | 44.7   | 44.0   | 43.6   |
| 5°    | 66.1   | 68.6   | 65.6   | 60.4   | 52.9   | 48.7   | 45.7   | 44.8   |
| 7.5°  | 56.3   | 56.3   | 65.0   | 68.0   | 60.4   | 54.0   | 47.6   | 46.6   |
| 10°   | 63.5   | 69.5   | 75.8   | 82.8   | 93.6   | 84.7   | 71.4   | 69.0   |
| 12.5° | 115.4  | 98.1   | 84.1   | 84.1   | 95.3   | 96.3   | 77.3   | 75.0   |
| 15°   | 122.6  | 123.2  | 128.8  | 116.9  | 114.6  | 124.3  | 111.0  | 106.7  |
| 17.5° | 155.2  | 153.1  | 149.3  | 131.7  | 122.8  | 126.0  | 127.5  | 123.2  |
| 20°   | 180.4  | 171.3  | 213.2  | 217.3  | 198.4  | 199.0  | 195.9  | 192.3  |
| 22.5° | 248.8  | 250.7  | 235.5  | 235.1  | 220.6  | 245.7  | 270.4  | 259.7  |
| 25°   | 262.8  | 276.4  | 322.6  | 315.1  | 306.2  | 293.3  | 299.9  | 284.6  |
| 27.5° | 342.2  | 333.8  | 342.6  | 333.8  | 357.7  | 345.8  | 338.6  | 335.0  |
| 30°   | 359.6  | 375.0  | 384.2  | 377.2  | 378.9  | 377.2  | 364.9  | 371.0  |
| 32.5° | 411.2  | 404.3  | 418.3  | 429.7  | 437.3  | 439.0  | 418.2  | 430.4  |
| 35°   | 445.6  | 463.6  | 462.1  | 458.1  | 461.7  | 468.4  | 457.4  | 457.8  |
| 37.5° | 493.0  | 497.4  | 493.8  | 492.8  | 494.7  | 498.5  | 500.2  | 493.8  |
| 40°   | 536.4  | 539.6  | 536.8  | 540.7  | 543.6  | 545.3  | 559.7  | 537.4  |
| 42.5° | 597.4  | 592.8  | 596.8  | 601.8  | 600.8  | 600.6  | 613.7  | 601.8  |
| 45°   | 666.0  | 665.0  | 661.8  | 665.2  | 673.4  | 661.2  | 681.9  | 678.5  |
| 47.5° | 745.6  | 745.6  | 740.2  | 743.3  | 756.6  | 747.3  | 765.6  | 771.2  |
| 50°   | 838.2  | 840.5  | 825.3  | 833.7  | 837.1  | 839.2  | 856.8  | 872.5  |
| 52.5° | 941.7  | 943.9  | 922.7  | 927.5  | 925.0  | 941.1  | 960.4  | 984.8  |
| 55°   | 1054.4 | 1050.8 | 1024.3 | 1033.2 | 1034.3 | 1062.0 | 1073.9 | 1114.0 |
| 57.5° | 1166.6 | 1165.6 | 1147.4 | 1147.2 | 1163.5 | 1192.5 | 1202.4 | 1247.3 |
| 60°   | 1290.3 | 1290.5 | 1268.1 | 1273.1 | 1288.2 | 1316.5 | 1354.3 | 1391.8 |
| 62.5° | 1418.2 | 1427.7 | 1408.5 | 1393.7 | 1410.1 | 1446.8 | 1503.6 | 1532.4 |
| 65°   | 1532.8 | 1552.0 | 1520.5 | 1520.3 | 1501.4 | 1561.6 | 1605.6 | 1641.2 |
| 67.5° | 1612.0 | 1614.5 | 1577.7 | 1570.7 | 1560.5 | 1599.3 | 1649.2 | 1668.8 |
| 70°   | 1612.0 | 1586.2 | 1550.2 | 1544.8 | 1527.9 | 1543.0 | 1603.5 | 1614.9 |
| 72.5° | 1483.8 | 1455.9 | 1406.8 | 1415.3 | 1396.0 | 1417.2 | 1465.0 | 1470.6 |
| 75°   | 1217.2 | 1179.8 | 1146.3 | 1159.9 | 1149.3 | 1187.6 | 1228.9 | 1219.8 |
| 77.5° | 868.0  | 821.9  | 778.2  | 777.8  | 778.9  | 788.4  | 817.0  | 803.9  |
| 80°   | 500.8  | 456.8  | 414.6  | 388.6  | 361.9  | 340.3  | 327.6  | 310.9  |
| 82.5° | 220.5  | 177.5  | 145.0  | 116.9  | 99.3   | 80.3   | 70.5   | 60.6   |
| 85°   | 69.6   | 57.0   | 48.7   | 44.5   | 40.6   | 38.1   | 33.0   | 28.4   |
| 87.5° | 31.3   | 30.7   | 28.8   | 29.6   | 29.6   | 25.6   | 17.8   | 14.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)