

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: P157059

Luminaire Tested: **UTLD-E01-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P157059  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33669)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-E01-LED-E-U-SL3-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2401 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7  
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



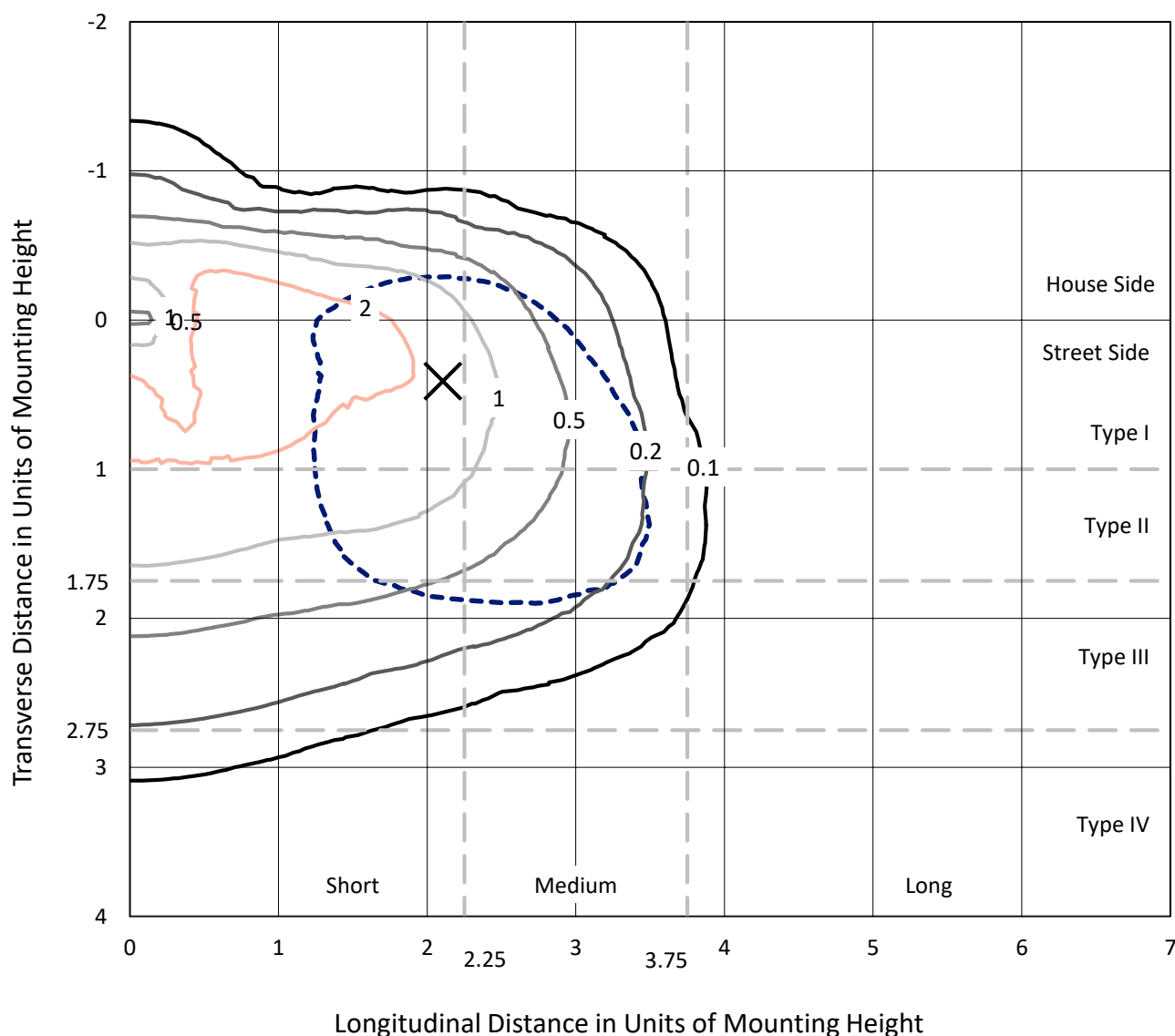
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

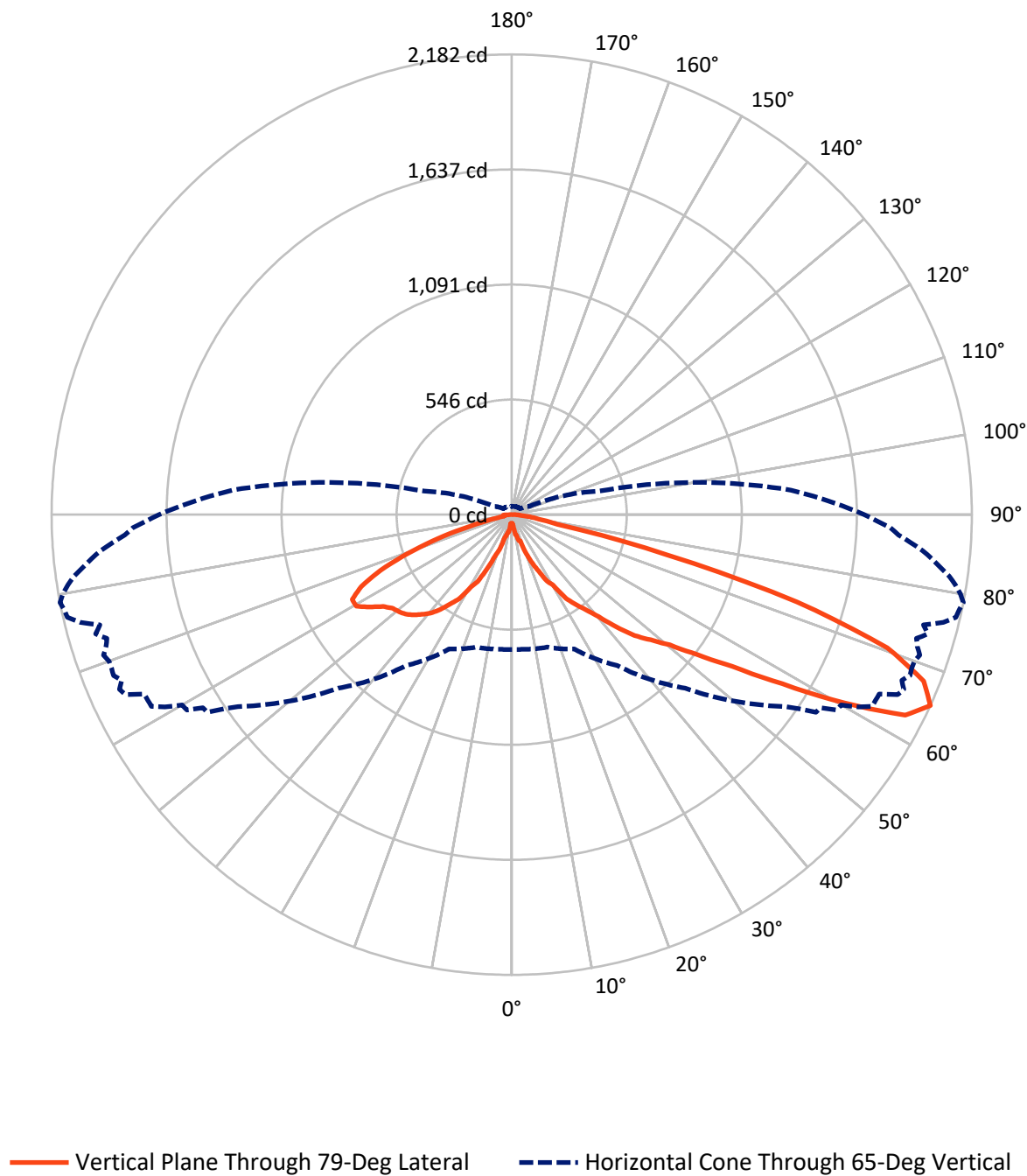


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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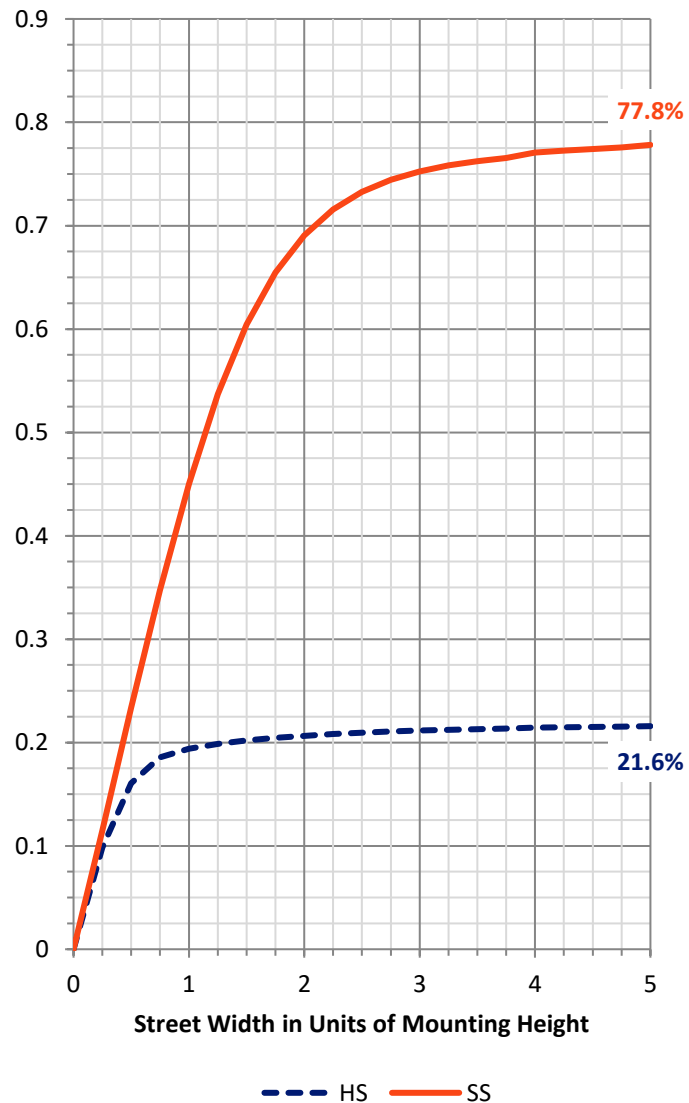
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 525.3    | 0.0    | 525.3  |
|                    | % Fixture | 21.9     | 0.0    | 21.9   |
| <b>Street Side</b> | Lumens    | 1875.7   | 0.0    | 1875.7 |
|                    | % Fixture | 78.1     | 0.0    | 78.1   |
| <b>Total</b>       | Lumens    | 2401.0   | 0.0    | 2401.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.8    | 0.2       |
| 10°-20°   | 36.8   | 1.5       |
| 20°-30°   | 113.4  | 4.7       |
| 30°-40°   | 218.2  | 9.1       |
| 40°-50°   | 360.7  | 15.0      |
| 50°-60°   | 542.5  | 22.6      |
| 60°-70°   | 726.6  | 30.3      |
| 70°-80°   | 341.5  | 14.2      |
| 80°-90°   | 55.5   | 2.3       |
| 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°    | 2401.0 | 100.0     |
| 0°-180°   | 2401.0 | 100.0     |

**Coefficient of Utilization**



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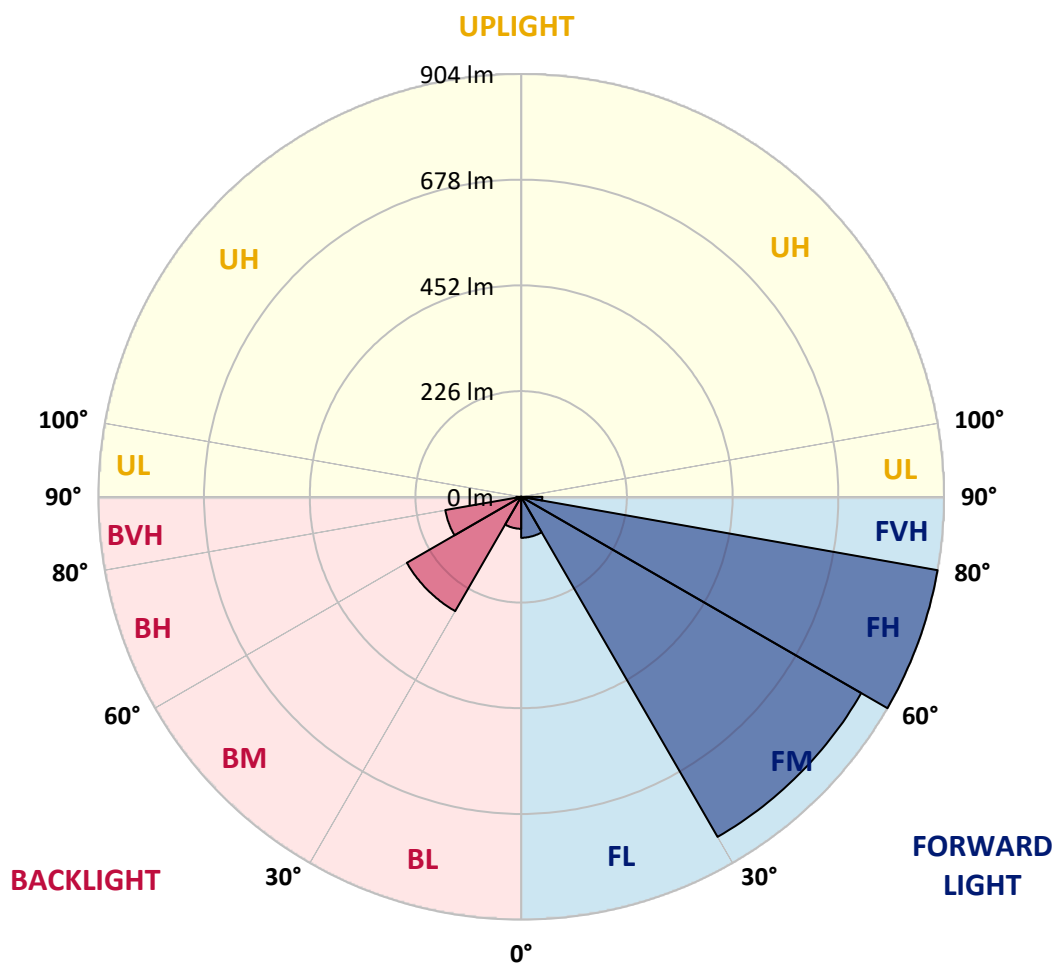
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 87.6   | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 839.2  | 35.0      |                         |      |         |
| FH   | (60°-80°)   | 903.6  | 37.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 45.3   | 1.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 68.3   | 2.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 282.2  | 11.8      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 164.6  | 6.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.2   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   |
| 2.5°  | 68.5  | 68.0  | 68.0  | 68.5  | 67.6  | 67.1   | 58.5   | 56.6   | 54.8   | 53.4   | 52.1   |
| 5°    | 56.6  | 57.1  | 56.6  | 56.6  | 58.0  | 56.2   | 61.7   | 62.6   | 64.8   | 65.8   | 67.6   |
| 7.5°  | 90.9  | 91.3  | 90.4  | 89.5  | 73.5  | 58.9   | 57.1   | 57.1   | 57.1   | 58.9   | 58.5   |
| 10°   | 96.4  | 96.4  | 95.4  | 94.5  | 91.8  | 87.7   | 63.9   | 64.4   | 75.4   | 67.1   | 79.5   |
| 12.5° | 134.7 | 135.6 | 133.8 | 127.4 | 98.2  | 121.9  | 122.8  | 121.5  | 120.6  | 117.4  | 114.6  |
| 15°   | 145.2 | 148.4 | 142.9 | 136.1 | 158.5 | 134.7  | 129.2  | 127.9  | 127.0  | 127.0  | 134.3  |
| 17.5° | 200.5 | 201.4 | 197.3 | 184.5 | 167.6 | 160.7  | 158.9  | 158.0  | 157.6  | 157.6  | 158.5  |
| 20°   | 239.3 | 242.0 | 211.4 | 220.6 | 204.1 | 185.9  | 179.5  | 179.5  | 179.9  | 176.3  | 171.3  |
| 22.5° | 263.5 | 262.6 | 248.4 | 253.9 | 225.1 | 207.8  | 223.8  | 227.9  | 232.4  | 234.3  | 237.0  |
| 25°   | 312.8 | 312.4 | 277.2 | 253.5 | 246.6 | 233.4  | 236.6  | 240.7  | 243.9  | 251.2  | 264.9  |
| 27.5° | 318.3 | 317.8 | 292.7 | 282.2 | 244.8 | 266.7  | 299.6  | 306.4  | 310.5  | 311.5  | 310.5  |
| 30°   | 358.9 | 358.0 | 338.9 | 294.6 | 279.5 | 290.4  | 322.0  | 328.8  | 332.5  | 335.2  | 335.2  |
| 32.5° | 401.0 | 401.0 | 364.9 | 309.6 | 300.9 | 332.0  | 378.6  | 380.9  | 383.6  | 384.1  | 385.0  |
| 35°   | 432.0 | 422.4 | 380.9 | 347.5 | 334.3 | 367.2  | 425.6  | 427.0  | 435.2  | 456.7  | 463.1  |
| 37.5° | 448.5 | 449.4 | 433.8 | 393.7 | 395.0 | 432.0  | 522.9  | 524.7  | 526.1  | 531.6  | 539.3  |
| 40°   | 474.9 | 479.5 | 468.5 | 443.9 | 454.8 | 513.3  | 607.4  | 613.3  | 618.3  | 619.3  | 634.3  |
| 42.5° | 501.9 | 505.5 | 506.0 | 513.3 | 522.9 | 598.2  | 689.1  | 695.1  | 694.1  | 701.0  | 723.8  |
| 45°   | 547.1 | 552.6 | 561.7 | 570.4 | 591.9 | 676.8  | 770.4  | 779.5  | 772.2  | 789.6  | 804.2  |
| 47.5° | 605.1 | 609.2 | 624.7 | 647.6 | 656.2 | 745.8  | 855.4  | 857.6  | 864.0  | 882.3  | 887.8  |
| 50°   | 656.2 | 661.3 | 680.9 | 711.0 | 721.5 | 806.0  | 920.2  | 921.1  | 931.6  | 957.6  | 947.1  |
| 52.5° | 695.1 | 700.5 | 717.4 | 764.5 | 780.9 | 873.2  | 970.4  | 970.9  | 989.2  | 1013.4 | 991.9  |
| 55°   | 716.5 | 722.5 | 733.9 | 787.3 | 819.3 | 922.9  | 1029.8 | 1032.5 | 1058.6 | 1071.8 | 1055.4 |
| 57.5° | 717.4 | 722.9 | 736.2 | 782.7 | 835.7 | 974.5  | 1112.0 | 1125.7 | 1153.1 | 1169.5 | 1169.5 |
| 60°   | 709.2 | 716.1 | 728.9 | 769.0 | 851.2 | 1032.1 | 1238.5 | 1266.8 | 1310.7 | 1326.6 | 1362.7 |
| 62.5° | 687.8 | 690.9 | 698.7 | 744.8 | 874.1 | 1101.0 | 1420.7 | 1467.8 | 1532.6 | 1542.6 | 1616.2 |
| 65°   | 638.9 | 640.7 | 650.3 | 702.8 | 873.2 | 1164.1 | 1586.0 | 1647.7 | 1720.3 | 1727.1 | 1797.5 |
| 67.5° | 575.0 | 579.1 | 586.4 | 636.6 | 790.5 | 1139.9 | 1600.2 | 1680.6 | 1737.2 | 1739.5 | 1798.4 |
| 70°   | 475.9 | 474.0 | 482.7 | 518.3 | 637.1 | 955.8  | 1446.7 | 1522.1 | 1560.5 | 1576.4 | 1616.6 |
| 72.5° | 311.9 | 312.8 | 306.4 | 328.3 | 429.3 | 673.1  | 1165.4 | 1249.5 | 1266.8 | 1305.6 | 1325.7 |
| 75°   | 175.4 | 171.7 | 178.6 | 196.8 | 242.0 | 405.1  | 793.2  | 867.7  | 903.8  | 935.7  | 953.1  |
| 77.5° | 104.1 | 102.8 | 114.2 | 139.7 | 195.5 | 271.7  | 457.6  | 494.6  | 524.3  | 548.9  | 580.4  |
| 80°   | 48.4  | 51.6  | 50.7  | 57.5  | 106.4 | 232.4  | 317.8  | 332.5  | 345.2  | 359.4  | 378.6  |
| 82.5° | 23.7  | 26.0  | 30.1  | 31.5  | 37.4  | 117.4  | 283.6  | 298.2  | 310.5  | 324.7  | 343.9  |
| 85°   | 15.5  | 16.0  | 22.4  | 22.8  | 23.3  | 35.6   | 138.8  | 160.7  | 169.4  | 193.2  | 226.1  |
| 87.5° | 5.5   | 7.8   | 16.4  | 14.6  | 14.6  | 17.4   | 47.0   | 51.6   | 53.9   | 58.9   | 65.8   |
| 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):**

|       | 60°    | 61°    | 62°    | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   |
| 2.5°  | 51.6   | 51.6   | 49.8   | 48.0   | 47.0   | 47.0   | 45.7   | 45.7   | 45.2   | 44.8   | 43.8   |
| 5°    | 67.1   | 68.0   | 68.0   | 68.0   | 67.6   | 67.1   | 66.7   | 65.8   | 64.8   | 63.0   | 61.7   |
| 7.5°  | 57.1   | 56.2   | 55.3   | 53.4   | 53.9   | 55.3   | 56.6   | 58.5   | 61.2   | 62.6   | 63.0   |
| 10°   | 80.4   | 82.7   | 82.2   | 82.7   | 82.2   | 83.1   | 83.1   | 84.0   | 83.6   | 84.0   | 84.9   |
| 12.5° | 110.1  | 100.9  | 92.2   | 90.4   | 90.0   | 89.5   | 90.4   | 90.0   | 92.2   | 93.6   | 93.6   |
| 15°   | 138.4  | 148.0  | 148.4  | 153.4  | 152.5  | 145.2  | 137.5  | 135.2  | 133.3  | 133.3  | 128.8  |
| 17.5° | 158.9  | 162.1  | 162.6  | 161.2  | 163.0  | 162.6  | 160.3  | 157.6  | 154.4  | 148.4  | 139.7  |
| 20°   | 189.5  | 194.1  | 196.8  | 199.6  | 205.0  | 200.9  | 200.0  | 218.3  | 220.6  | 222.4  | 220.6  |
| 22.5° | 240.7  | 240.2  | 238.8  | 231.5  | 227.9  | 227.4  | 228.8  | 232.4  | 232.0  | 233.4  | 234.7  |
| 25°   | 271.3  | 270.8  | 274.5  | 287.7  | 291.4  | 304.6  | 300.9  | 300.9  | 303.2  | 305.5  | 301.9  |
| 27.5° | 308.3  | 312.4  | 317.4  | 316.9  | 323.3  | 321.5  | 321.0  | 324.7  | 324.7  | 320.1  | 322.9  |
| 30°   | 337.5  | 350.3  | 367.6  | 373.1  | 369.5  | 369.5  | 374.5  | 379.5  | 378.1  | 377.7  | 378.6  |
| 32.5° | 390.5  | 403.2  | 392.3  | 404.6  | 397.3  | 409.2  | 427.9  | 440.7  | 445.3  | 444.8  | 451.7  |
| 35°   | 475.9  | 478.1  | 471.3  | 476.3  | 485.0  | 487.3  | 489.1  | 489.1  | 483.6  | 492.8  | 496.9  |
| 37.5° | 548.5  | 537.0  | 547.1  | 541.2  | 547.6  | 554.9  | 553.9  | 545.3  | 542.5  | 557.6  | 556.2  |
| 40°   | 640.7  | 622.4  | 635.2  | 632.0  | 635.7  | 638.0  | 627.9  | 622.0  | 629.3  | 633.9  | 633.0  |
| 42.5° | 708.8  | 718.4  | 718.8  | 717.4  | 720.6  | 721.1  | 702.8  | 705.6  | 714.2  | 712.9  | 708.3  |
| 45°   | 782.3  | 798.3  | 789.6  | 802.8  | 804.2  | 786.4  | 782.3  | 794.2  | 796.9  | 792.3  | 786.9  |
| 47.5° | 871.8  | 882.3  | 867.7  | 887.8  | 888.2  | 868.1  | 877.3  | 885.5  | 887.3  | 878.2  | 886.4  |
| 50°   | 949.0  | 949.9  | 946.7  | 962.2  | 953.1  | 943.0  | 963.1  | 967.7  | 963.6  | 951.3  | 964.0  |
| 52.5° | 1012.4 | 1000.1 | 1012.9 | 1034.4 | 1009.7 | 1011.1 | 1041.2 | 1037.6 | 1024.8 | 1036.7 | 1028.0 |
| 55°   | 1081.4 | 1070.4 | 1101.0 | 1111.1 | 1088.3 | 1109.3 | 1130.3 | 1125.2 | 1110.6 | 1134.8 | 1117.9 |
| 57.5° | 1185.1 | 1187.8 | 1214.8 | 1222.5 | 1212.9 | 1259.5 | 1269.6 | 1268.2 | 1268.6 | 1284.6 | 1277.3 |
| 60°   | 1371.9 | 1398.8 | 1429.8 | 1453.6 | 1469.1 | 1524.4 | 1525.3 | 1526.2 | 1544.0 | 1551.8 | 1577.8 |
| 62.5° | 1611.2 | 1682.4 | 1699.7 | 1728.5 | 1786.1 | 1839.0 | 1827.6 | 1829.0 | 1851.8 | 1833.6 | 1867.3 |
| 65°   | 1804.3 | 1880.1 | 1934.9 | 1939.0 | 2019.4 | 2035.4 | 2009.4 | 2036.8 | 2032.2 | 2032.2 | 2046.8 |
| 67.5° | 1822.6 | 1900.7 | 1950.0 | 1971.5 | 2064.6 | 2060.5 | 2035.4 | 2076.5 | 2052.3 | 2072.8 | 2066.9 |
| 70°   | 1659.1 | 1717.6 | 1768.7 | 1814.4 | 1898.4 | 1893.8 | 1895.2 | 1951.8 | 1948.6 | 1964.6 | 1948.2 |
| 72.5° | 1373.2 | 1424.8 | 1453.1 | 1536.3 | 1558.2 | 1555.0 | 1589.2 | 1593.8 | 1619.4 | 1654.1 | 1632.6 |
| 75°   | 1028.4 | 1062.2 | 1064.5 | 1119.8 | 1111.1 | 1100.6 | 1105.6 | 1123.9 | 1076.4 | 1046.2 | 1022.0 |
| 77.5° | 627.9  | 635.7  | 628.4  | 621.5  | 599.2  | 577.2  | 589.1  | 579.1  | 548.5  | 528.8  | 505.5  |
| 80°   | 395.5  | 405.1  | 408.7  | 430.6  | 424.7  | 443.4  | 457.6  | 471.7  | 475.9  | 459.0  | 442.5  |
| 82.5° | 366.3  | 369.5  | 380.4  | 402.8  | 406.9  | 431.1  | 434.3  | 443.0  | 427.9  | 418.3  | 388.6  |
| 85°   | 235.6  | 243.0  | 265.3  | 251.2  | 270.4  | 270.8  | 260.8  | 259.8  | 230.6  | 215.6  | 181.3  |
| 87.5° | 72.2   | 74.0   | 82.7   | 83.1   | 94.1   | 95.9   | 99.1   | 95.9   | 85.9   | 72.2   | 59.8   |
| 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):**

|       | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   |
| 2.5°  | 43.4   | 42.9   | 42.5   | 42.5   | 42.5   | 42.0   | 42.0   | 42.0   | 42.0   | 41.6   | 41.6   |
| 5°    | 58.9   | 56.6   | 53.9   | 50.2   | 46.6   | 45.2   | 45.2   | 44.3   | 43.8   | 43.4   | 42.9   |
| 7.5°  | 63.0   | 62.6   | 62.6   | 62.6   | 61.7   | 60.7   | 59.8   | 55.7   | 47.5   | 43.8   | 43.4   |
| 10°   | 84.9   | 87.7   | 92.2   | 96.8   | 97.7   | 97.7   | 96.8   | 95.0   | 93.2   | 90.9   | 83.6   |
| 12.5° | 93.2   | 93.2   | 91.8   | 90.4   | 92.2   | 96.4   | 100.5  | 102.3  | 101.8  | 100.9  | 100.5  |
| 15°   | 127.4  | 127.4  | 127.0  | 126.0  | 126.0  | 125.6  | 126.0  | 128.3  | 131.1  | 133.8  | 133.8  |
| 17.5° | 139.7  | 138.8  | 139.3  | 140.7  | 135.2  | 133.8  | 133.3  | 131.1  | 130.6  | 132.4  | 133.8  |
| 20°   | 218.3  | 215.1  | 206.0  | 205.0  | 203.2  | 202.3  | 201.9  | 199.1  | 197.7  | 201.4  | 201.9  |
| 22.5° | 232.9  | 237.0  | 234.3  | 248.0  | 225.6  | 226.5  | 241.1  | 249.3  | 249.3  | 248.0  | 245.7  |
| 25°   | 306.0  | 303.2  | 306.4  | 307.3  | 302.8  | 306.4  | 299.6  | 295.9  | 290.9  | 290.4  | 291.4  |
| 27.5° | 323.8  | 331.5  | 332.9  | 345.7  | 353.5  | 349.8  | 364.0  | 358.0  | 353.0  | 348.9  | 352.6  |
| 30°   | 384.5  | 382.2  | 385.9  | 387.3  | 392.3  | 389.5  | 384.5  | 387.3  | 391.4  | 397.8  | 392.7  |
| 32.5° | 457.6  | 461.2  | 464.4  | 465.4  | 468.1  | 464.4  | 464.9  | 474.0  | 480.0  | 473.1  | 462.6  |
| 35°   | 501.4  | 501.4  | 507.4  | 506.5  | 501.4  | 503.3  | 518.8  | 522.4  | 516.0  | 511.5  | 518.8  |
| 37.5° | 557.6  | 556.7  | 557.1  | 558.5  | 555.3  | 572.7  | 580.9  | 571.8  | 564.9  | 579.1  | 573.1  |
| 40°   | 626.6  | 633.0  | 627.5  | 628.4  | 642.1  | 652.1  | 643.5  | 636.6  | 653.5  | 643.0  | 634.3  |
| 42.5° | 712.4  | 706.5  | 698.7  | 714.7  | 727.5  | 720.6  | 710.6  | 727.9  | 722.9  | 708.3  | 733.4  |
| 45°   | 797.4  | 789.6  | 791.0  | 805.1  | 810.1  | 796.0  | 805.1  | 817.4  | 794.6  | 818.4  | 827.5  |
| 47.5° | 872.2  | 875.9  | 891.9  | 905.1  | 887.8  | 891.9  | 905.6  | 886.9  | 904.2  | 922.0  | 920.2  |
| 50°   | 951.3  | 967.2  | 978.2  | 975.9  | 964.0  | 990.1  | 977.7  | 970.9  | 1007.9 | 1012.9 | 1018.4 |
| 52.5° | 1025.7 | 1049.9 | 1052.2 | 1038.0 | 1056.3 | 1070.9 | 1054.0 | 1101.5 | 1117.0 | 1120.7 | 1136.2 |
| 55°   | 1131.2 | 1153.1 | 1144.0 | 1140.8 | 1186.4 | 1175.9 | 1210.2 | 1269.1 | 1276.4 | 1291.0 | 1293.8 |
| 57.5° | 1306.5 | 1323.0 | 1313.4 | 1350.4 | 1387.4 | 1381.0 | 1483.3 | 1513.4 | 1555.0 | 1563.2 | 1571.0 |
| 60°   | 1609.8 | 1597.0 | 1597.0 | 1676.5 | 1666.9 | 1732.6 | 1806.6 | 1814.8 | 1859.6 | 1862.8 | 1871.9 |
| 62.5° | 1871.9 | 1866.4 | 1909.4 | 1932.6 | 1928.1 | 2047.7 | 2066.9 | 2093.9 | 2088.8 | 2098.0 | 2042.7 |
| 65°   | 2022.6 | 2007.1 | 2052.3 | 2021.7 | 2108.9 | 2162.4 | 2169.2 | 2182.0 | 2160.5 | 2129.9 | 2095.2 |
| 67.5° | 2024.4 | 2027.2 | 2031.7 | 2011.2 | 2110.8 | 2114.4 | 2125.8 | 2107.1 | 2088.8 | 2009.8 | 1974.2 |
| 70°   | 1912.1 | 1929.9 | 1891.1 | 1928.1 | 1967.8 | 1946.3 | 1939.0 | 1890.2 | 1842.2 | 1759.6 | 1689.2 |
| 72.5° | 1600.2 | 1576.4 | 1553.2 | 1581.0 | 1561.8 | 1522.6 | 1475.5 | 1414.8 | 1325.7 | 1263.2 | 1195.6 |
| 75°   | 966.3  | 922.0  | 945.3  | 904.7  | 847.1  | 831.1  | 777.7  | 760.8  | 689.6  | 598.7  | 564.5  |
| 77.5° | 482.2  | 436.1  | 442.1  | 407.4  | 363.5  | 327.4  | 272.2  | 222.9  | 177.6  | 137.5  | 112.3  |
| 80°   | 403.7  | 381.3  | 358.9  | 322.4  | 285.4  | 237.0  | 187.7  | 132.9  | 90.4   | 66.2   | 56.6   |
| 82.5° | 347.5  | 341.1  | 297.3  | 262.1  | 221.0  | 179.9  | 127.0  | 87.7   | 56.6   | 43.8   | 40.6   |
| 85°   | 160.7  | 144.8  | 125.6  | 120.1  | 94.5   | 77.2   | 57.5   | 42.5   | 32.9   | 29.2   | 26.9   |
| 87.5° | 58.0   | 49.8   | 46.1   | 39.7   | 34.7   | 31.5   | 29.7   | 28.8   | 28.8   | 28.8   | 27.4   |
| 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):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°    | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1  | 41.1  |
| 2.5°  | 41.6   | 41.6   | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 40.6   | 40.6   | 40.6  | 41.6  |
| 5°    | 42.9   | 42.5   | 42.5   | 42.0   | 42.0   | 42.0   | 41.6   | 41.6   | 41.1   | 42.5  | 57.1  |
| 7.5°  | 43.4   | 43.8   | 43.8   | 43.8   | 43.8   | 43.8   | 43.4   | 43.4   | 43.4   | 48.4  | 56.2  |
| 10°   | 74.4   | 71.7   | 71.2   | 70.3   | 69.4   | 69.0   | 68.0   | 66.7   | 68.5   | 93.2  | 64.8  |
| 12.5° | 97.7   | 87.2   | 79.0   | 77.6   | 76.7   | 75.4   | 75.4   | 71.7   | 74.9   | 89.1  | 69.4  |
| 15°   | 132.9  | 129.7  | 120.6  | 111.9  | 112.8  | 112.8  | 111.9  | 111.4  | 103.2  | 104.1 | 105.5 |
| 17.5° | 137.0  | 143.9  | 148.9  | 137.5  | 127.0  | 120.1  | 121.9  | 131.5  | 118.3  | 113.3 | 135.2 |
| 20°   | 201.4  | 203.7  | 204.6  | 198.2  | 184.0  | 184.0  | 186.3  | 188.6  | 178.1  | 176.3 | 175.8 |
| 22.5° | 241.6  | 244.3  | 242.5  | 245.2  | 241.6  | 239.3  | 234.7  | 229.7  | 224.2  | 202.3 | 216.5 |
| 25°   | 292.3  | 299.1  | 302.8  | 296.8  | 288.2  | 277.7  | 274.5  | 274.9  | 284.1  | 282.7 | 299.6 |
| 27.5° | 357.1  | 353.5  | 348.9  | 353.0  | 356.7  | 345.2  | 341.1  | 337.0  | 334.7  | 369.5 | 328.8 |
| 30°   | 380.4  | 377.7  | 383.6  | 377.7  | 376.8  | 381.8  | 386.3  | 379.0  | 378.6  | 406.4 | 372.6 |
| 32.5° | 467.6  | 465.8  | 452.1  | 457.6  | 463.5  | 464.4  | 464.0  | 471.7  | 467.2  | 473.1 | 391.4 |
| 35°   | 509.6  | 500.1  | 513.3  | 515.1  | 508.7  | 517.0  | 517.0  | 515.1  | 527.5  | 503.3 | 406.9 |
| 37.5° | 566.3  | 573.1  | 581.8  | 584.5  | 591.4  | 576.3  | 588.7  | 590.9  | 610.1  | 532.9 | 395.5 |
| 40°   | 656.7  | 661.7  | 667.2  | 666.3  | 659.4  | 675.9  | 659.9  | 666.3  | 687.8  | 550.3 | 382.7 |
| 42.5° | 740.7  | 745.3  | 753.5  | 753.1  | 755.8  | 747.6  | 760.4  | 755.8  | 758.5  | 554.9 | 366.7 |
| 45°   | 829.8  | 841.2  | 833.4  | 850.3  | 845.8  | 842.6  | 850.3  | 847.6  | 819.7  | 563.5 | 339.8 |
| 47.5° | 930.7  | 928.0  | 935.7  | 935.7  | 938.9  | 944.4  | 936.2  | 938.5  | 872.7  | 569.5 | 310.5 |
| 50°   | 1018.8 | 1023.0 | 1030.7 | 1029.8 | 1036.7 | 1030.3 | 1038.0 | 1012.4 | 916.5  | 565.8 | 273.1 |
| 52.5° | 1133.5 | 1149.9 | 1141.2 | 1145.8 | 1138.5 | 1149.9 | 1126.2 | 1114.3 | 976.4  | 548.5 | 234.7 |
| 55°   | 1323.9 | 1298.3 | 1314.8 | 1296.5 | 1297.9 | 1294.7 | 1264.5 | 1256.3 | 1063.6 | 539.3 | 190.9 |
| 57.5° | 1562.3 | 1559.5 | 1547.2 | 1524.4 | 1518.9 | 1499.3 | 1474.1 | 1444.9 | 1202.9 | 536.6 | 154.8 |
| 60°   | 1851.4 | 1840.4 | 1802.0 | 1780.6 | 1741.3 | 1701.6 | 1679.7 | 1644.0 | 1351.3 | 524.7 | 127.9 |
| 62.5° | 2038.1 | 1991.6 | 1963.7 | 1912.6 | 1876.0 | 1829.9 | 1794.3 | 1728.1 | 1393.3 | 498.2 | 113.3 |
| 65°   | 2047.3 | 2003.9 | 1956.4 | 1896.1 | 1837.2 | 1797.0 | 1732.6 | 1671.0 | 1330.3 | 430.6 | 94.5  |
| 67.5° | 1915.3 | 1868.3 | 1774.2 | 1729.4 | 1671.9 | 1624.4 | 1546.8 | 1492.9 | 1169.5 | 345.7 | 74.9  |
| 70°   | 1650.0 | 1570.5 | 1483.7 | 1423.5 | 1374.6 | 1318.9 | 1245.8 | 1186.9 | 933.4  | 254.4 | 58.0  |
| 72.5° | 1142.6 | 1096.9 | 1017.0 | 986.4  | 938.5  | 911.5  | 872.7  | 849.4  | 660.4  | 174.9 | 48.0  |
| 75°   | 555.8  | 521.5  | 473.6  | 483.6  | 449.8  | 457.1  | 462.2  | 435.2  | 364.9  | 99.1  | 41.6  |
| 77.5° | 103.7  | 108.7  | 96.8   | 96.8   | 98.2   | 93.6   | 94.5   | 102.8  | 102.3  | 50.2  | 35.2  |
| 80°   | 53.0   | 52.1   | 50.2   | 49.3   | 47.0   | 45.7   | 43.8   | 42.9   | 41.6   | 36.1  | 30.6  |
| 82.5° | 38.4   | 36.1   | 33.8   | 32.4   | 31.1   | 29.2   | 27.9   | 28.3   | 31.1   | 35.6  | 32.9  |
| 85°   | 24.7   | 23.7   | 21.9   | 21.5   | 21.0   | 20.6   | 21.0   | 21.9   | 29.7   | 42.5  | 32.4  |
| 87.5° | 26.5   | 24.2   | 21.9   | 21.0   | 20.6   | 19.6   | 19.2   | 20.6   | 31.5   | 46.1  | 27.9  |
| 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):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  |
| 2.5°  | 42.5  | 45.7  | 56.2  | 64.4  | 65.3  | 65.3  | 64.8  |
| 5°    | 63.9  | 44.3  | 41.1  | 42.0  | 40.2  | 40.6  | 40.2  |
| 7.5°  | 40.6  | 40.6  | 41.6  | 57.5  | 64.8  | 67.6  | 65.8  |
| 10°   | 48.4  | 64.4  | 65.3  | 68.0  | 68.5  | 68.0  | 67.6  |
| 12.5° | 94.1  | 92.7  | 70.8  | 75.4  | 98.2  | 99.6  | 99.1  |
| 15°   | 101.4 | 100.5 | 122.4 | 101.4 | 105.0 | 105.9 | 105.0 |
| 17.5° | 132.4 | 132.4 | 132.0 | 121.5 | 136.5 | 136.5 | 136.1 |
| 20°   | 156.6 | 163.0 | 158.5 | 152.1 | 133.8 | 134.3 | 134.3 |
| 22.5° | 221.9 | 181.3 | 173.1 | 165.8 | 150.2 | 150.2 | 149.8 |
| 25°   | 228.8 | 203.7 | 181.8 | 158.9 | 145.7 | 159.4 | 158.0 |
| 27.5° | 295.0 | 212.8 | 170.8 | 161.7 | 144.8 | 140.7 | 140.7 |
| 30°   | 290.4 | 224.7 | 190.9 | 147.5 | 139.7 | 133.8 | 131.1 |
| 32.5° | 307.3 | 222.4 | 168.5 | 134.3 | 113.7 | 111.4 | 108.7 |
| 35°   | 297.8 | 211.0 | 144.3 | 106.9 | 87.2  | 83.1  | 83.1  |
| 37.5° | 287.7 | 179.9 | 116.5 | 79.5  | 69.4  | 66.2  | 66.7  |
| 40°   | 253.5 | 144.8 | 80.8  | 61.2  | 61.2  | 61.7  | 61.7  |
| 42.5° | 216.5 | 100.5 | 59.4  | 52.5  | 55.3  | 57.1  | 56.6  |
| 45°   | 170.3 | 67.6  | 48.0  | 48.4  | 52.1  | 53.4  | 53.4  |
| 47.5° | 121.5 | 50.2  | 43.8  | 45.2  | 49.3  | 51.1  | 50.7  |
| 50°   | 82.7  | 42.9  | 41.1  | 43.4  | 47.5  | 48.4  | 48.4  |
| 52.5° | 59.8  | 40.6  | 39.3  | 41.6  | 45.7  | 46.6  | 46.6  |
| 55°   | 49.8  | 39.7  | 38.4  | 40.2  | 43.8  | 44.8  | 45.2  |
| 57.5° | 47.0  | 39.7  | 37.9  | 39.7  | 42.5  | 43.4  | 43.4  |
| 60°   | 47.0  | 40.2  | 38.8  | 39.7  | 41.1  | 42.0  | 42.5  |
| 62.5° | 48.0  | 42.5  | 40.6  | 40.6  | 40.6  | 41.1  | 41.1  |
| 65°   | 49.8  | 46.6  | 43.8  | 42.5  | 40.6  | 39.3  | 39.7  |
| 67.5° | 52.1  | 50.7  | 48.4  | 44.8  | 39.7  | 37.0  | 37.0  |
| 70°   | 53.9  | 54.8  | 53.9  | 46.6  | 38.8  | 34.3  | 33.8  |
| 72.5° | 53.4  | 58.0  | 54.8  | 47.0  | 37.9  | 32.0  | 31.5  |
| 75°   | 50.2  | 53.9  | 47.5  | 42.5  | 35.6  | 30.1  | 29.2  |
| 77.5° | 43.8  | 39.7  | 32.9  | 32.9  | 29.7  | 26.9  | 26.0  |
| 80°   | 35.2  | 26.5  | 21.9  | 23.3  | 22.4  | 16.9  | 14.6  |
| 82.5° | 27.9  | 17.4  | 16.4  | 17.4  | 16.9  | 12.3  | 10.5  |
| 85°   | 22.8  | 11.9  | 11.9  | 13.2  | 11.9  | 9.1   | 6.9   |
| 87.5° | 17.8  | 6.9   | 7.8   | 7.3   | 7.3   | 5.5   | 1.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)