

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: P177477

Luminaire Tested: **VAL-E01-LED-E-U-GL3-7030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P177477  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VAL-E01-LED-E-U-GL3-7030  
Description: VALET TUNNEL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE III W/ GLARE CONTROL  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2711.5 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
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



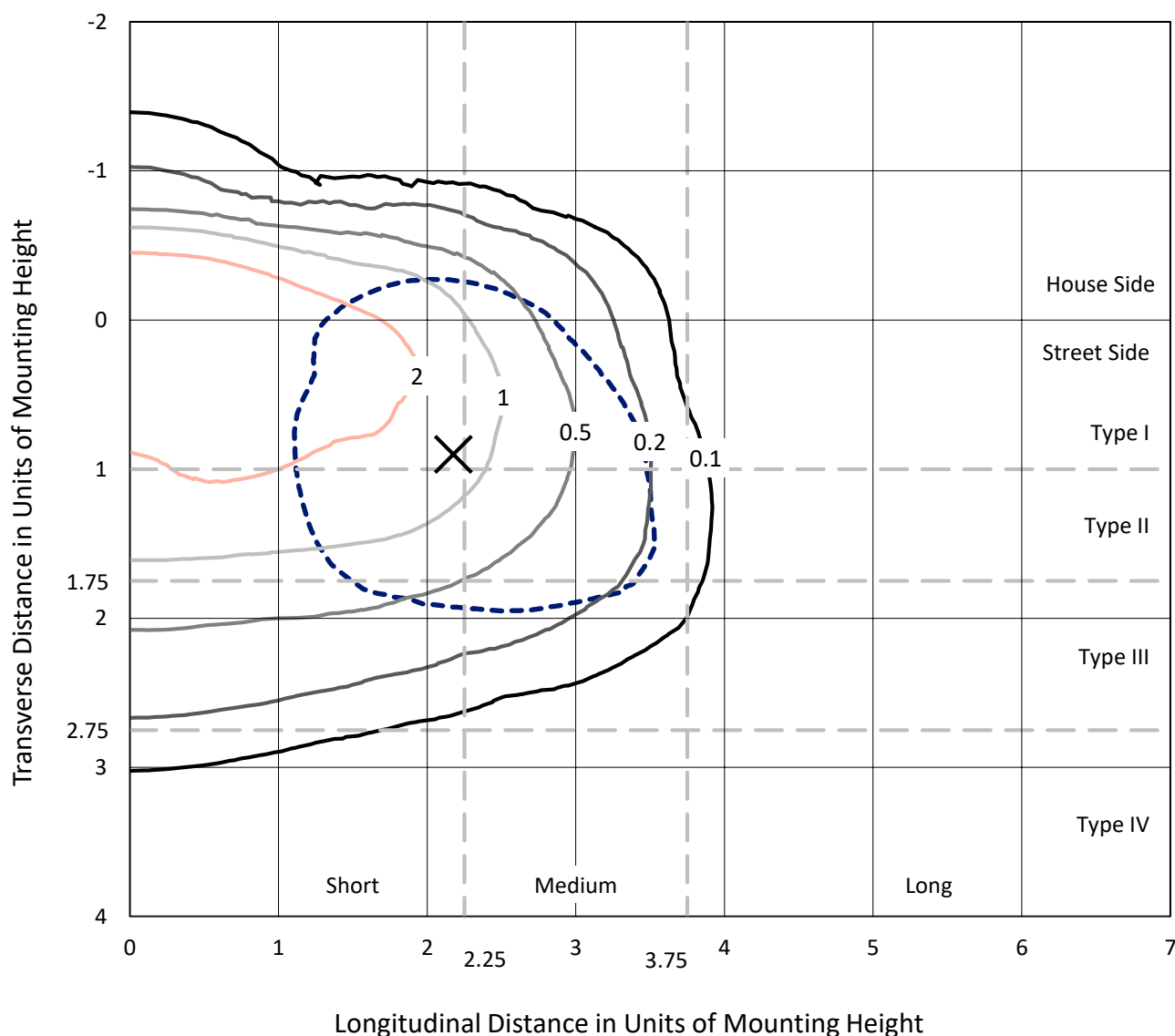
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

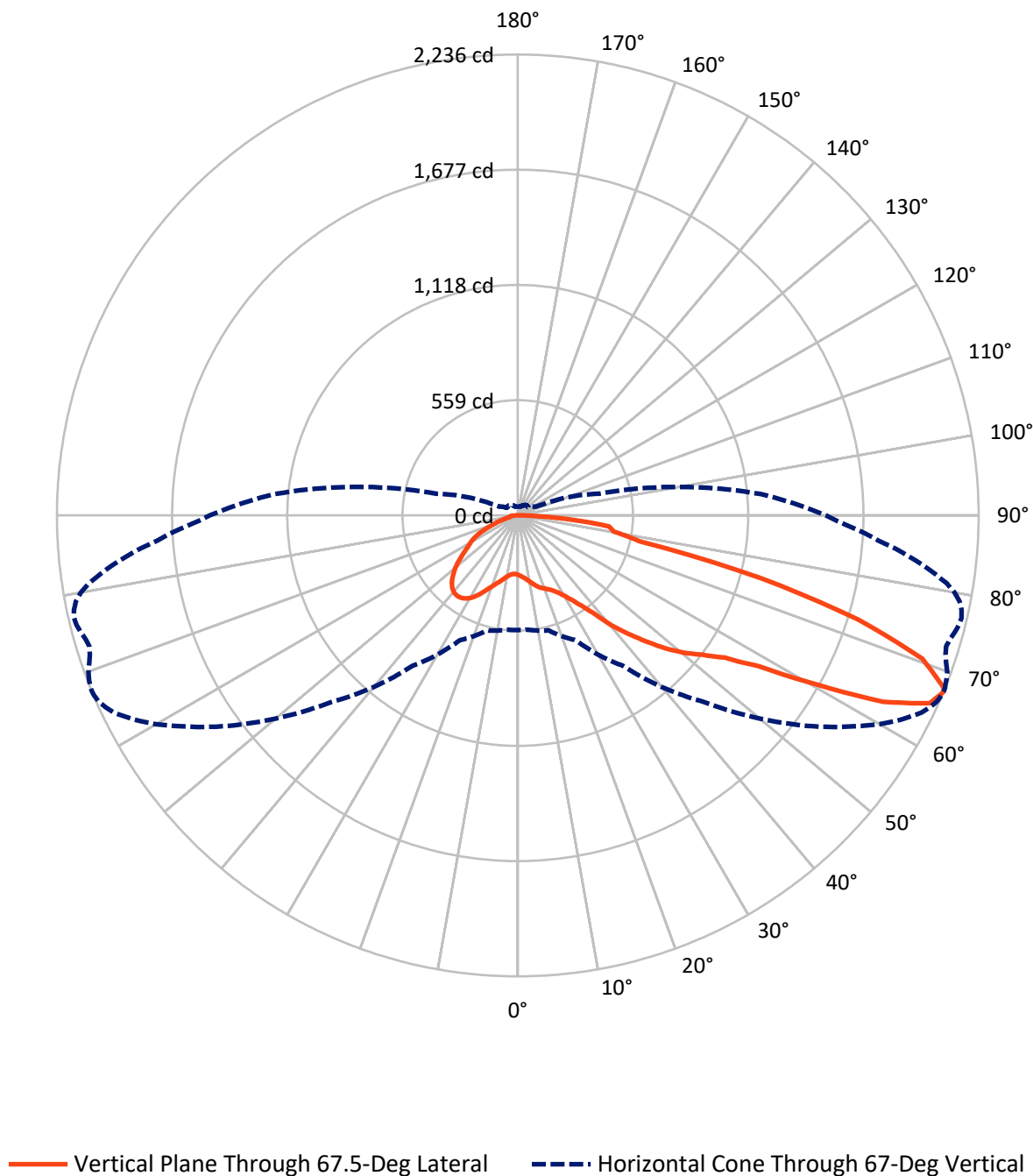


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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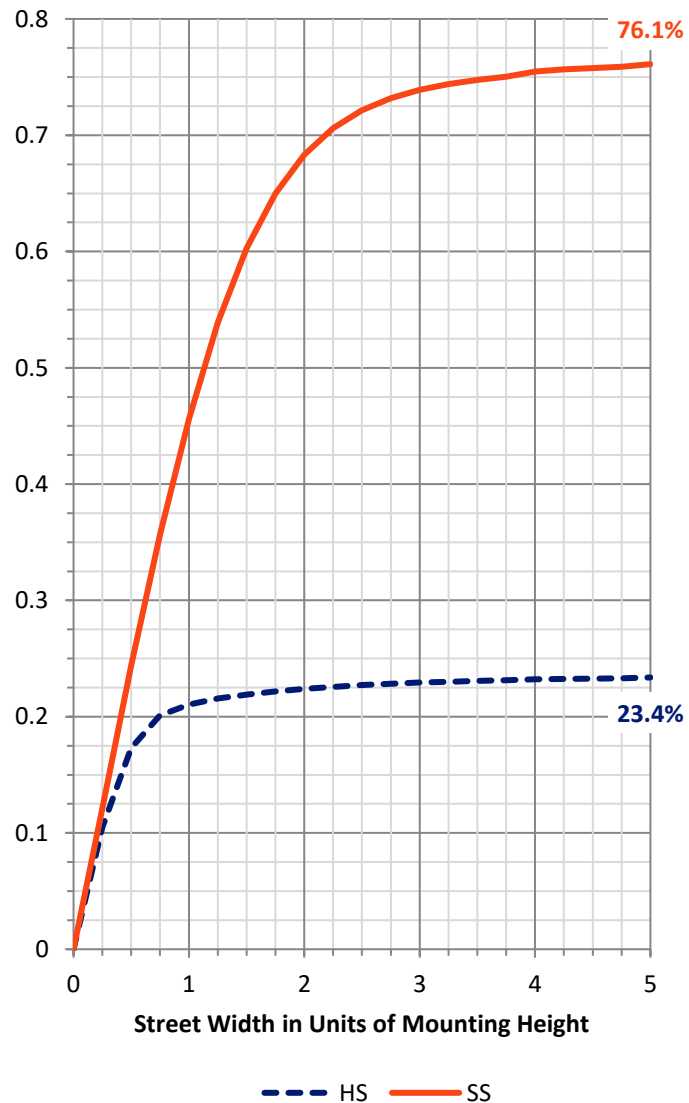
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 642.1    | 0.0    | 642.1  |
|                    | % Fixture | 23.7     | 0.0    | 23.7   |
| <b>Street Side</b> | Lumens    | 2069.4   | 0.0    | 2069.4 |
|                    | % Fixture | 76.3     | 0.0    | 76.3   |
| <b>Total</b>       | Lumens    | 2711.5   | 0.0    | 2711.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.8   | 1.1       |
| 10°-20°   | 98.6   | 3.6       |
| 20°-30°   | 175.5  | 6.5       |
| 30°-40°   | 255.6  | 9.4       |
| 40°-50°   | 393.9  | 14.5      |
| 50°-60°   | 576.8  | 21.3      |
| 60°-70°   | 766.0  | 28.2      |
| 70°-80°   | 361.1  | 13.3      |
| 80°-90°   | 55.2   | 2.0       |
| 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°    | 2711.5 | 100.0     |
| 0°-180°   | 2711.5 | 100.0     |

**Coefficient of Utilization**



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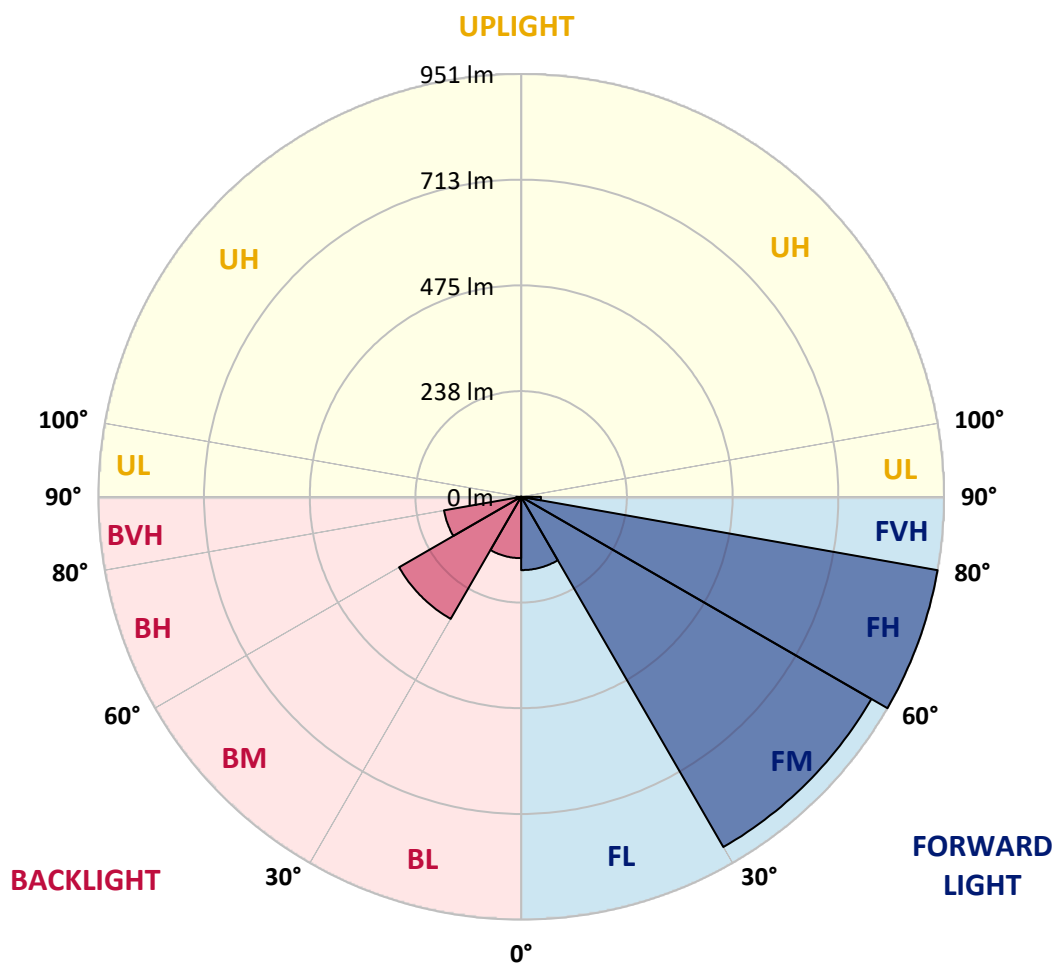
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 164.8  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 909.3  | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 950.8  | 35.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 44.5   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 138.0  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 317.1  | 11.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 176.3  | 6.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.7   | 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°    | 60°    | 61°    | 62°    | 64°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 288.4 | 288.4 | 288.4 | 288.4 | 288.4 | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  |
| 2.5°  | 302.9 | 301.6 | 301.8 | 302.3 | 300.5 | 299.6  | 297.6  | 296.3  | 296.1  | 295.9  | 295.2  |
| 5°    | 320.6 | 319.3 | 319.9 | 318.4 | 314.9 | 312.5  | 308.3  | 306.2  | 305.8  | 305.4  | 304.5  |
| 7.5°  | 339.0 | 337.4 | 335.6 | 333.9 | 330.1 | 326.2  | 320.8  | 317.5  | 317.1  | 316.6  | 316.0  |
| 10°   | 361.0 | 358.6 | 357.1 | 352.0 | 345.4 | 340.1  | 334.7  | 331.2  | 331.0  | 330.5  | 329.4  |
| 12.5° | 385.6 | 383.1 | 380.3 | 373.6 | 363.3 | 355.5  | 349.1  | 347.1  | 345.4  | 345.6  | 344.5  |
| 15°   | 410.1 | 407.4 | 403.7 | 395.1 | 381.6 | 369.9  | 361.7  | 358.8  | 358.9  | 358.0  | 358.6  |
| 17.5° | 430.7 | 428.4 | 423.1 | 412.1 | 396.4 | 380.3  | 369.9  | 368.6  | 369.0  | 368.8  | 369.4  |
| 20°   | 444.3 | 442.8 | 434.8 | 421.6 | 403.9 | 386.2  | 375.6  | 375.6  | 375.8  | 376.5  | 377.8  |
| 22.5° | 452.5 | 450.3 | 439.7 | 421.2 | 403.7 | 388.9  | 380.7  | 382.5  | 383.6  | 384.2  | 386.2  |
| 25°   | 457.0 | 454.3 | 439.9 | 415.4 | 397.5 | 390.9  | 388.4  | 392.9  | 394.8  | 395.7  | 399.0  |
| 27.5° | 457.0 | 453.8 | 437.5 | 408.1 | 390.4 | 396.9  | 403.0  | 410.8  | 412.1  | 414.8  | 418.7  |
| 30°   | 451.9 | 449.4 | 433.8 | 402.6 | 388.5 | 408.3  | 426.5  | 435.5  | 438.6  | 441.7  | 446.6  |
| 32.5° | 446.4 | 444.3 | 432.0 | 405.5 | 398.8 | 432.0  | 462.5  | 474.8  | 476.6  | 479.1  | 484.3  |
| 35°   | 446.1 | 445.3 | 440.1 | 424.2 | 429.6 | 475.5  | 516.8  | 525.2  | 530.3  | 531.6  | 533.8  |
| 37.5° | 449.9 | 451.4 | 455.9 | 454.3 | 474.0 | 540.2  | 587.8  | 604.6  | 608.7  | 606.5  | 608.5  |
| 40°   | 458.9 | 462.5 | 479.5 | 500.5 | 541.8 | 618.3  | 684.6  | 704.0  | 708.4  | 707.1  | 706.6  |
| 42.5° | 487.2 | 492.1 | 517.1 | 562.1 | 612.3 | 699.3  | 774.5  | 795.3  | 796.8  | 797.5  | 792.8  |
| 45°   | 531.6 | 534.3 | 567.6 | 624.9 | 688.7 | 786.4  | 864.2  | 887.4  | 886.5  | 882.8  | 879.4  |
| 47.5° | 582.0 | 587.6 | 627.5 | 696.9 | 767.6 | 867.0  | 955.0  | 977.7  | 979.7  | 976.4  | 970.0  |
| 50°   | 627.8 | 632.2 | 677.2 | 759.5 | 837.2 | 934.0  | 1031.5 | 1054.4 | 1054.0 | 1055.8 | 1057.7 |
| 52.5° | 664.0 | 668.0 | 710.8 | 801.4 | 888.3 | 990.3  | 1089.3 | 1117.4 | 1121.8 | 1124.7 | 1128.4 |
| 55°   | 682.6 | 686.8 | 726.3 | 818.7 | 919.4 | 1045.2 | 1155.9 | 1196.3 | 1203.8 | 1210.4 | 1216.4 |
| 57.5° | 683.0 | 688.5 | 724.7 | 817.4 | 935.5 | 1094.4 | 1244.2 | 1316.7 | 1327.3 | 1344.1 | 1364.7 |
| 60°   | 671.9 | 679.5 | 712.0 | 805.6 | 953.9 | 1156.7 | 1389.6 | 1528.4 | 1549.2 | 1578.6 | 1605.1 |
| 62.5° | 642.8 | 650.5 | 679.5 | 775.4 | 975.5 | 1236.5 | 1599.6 | 1803.1 | 1847.5 | 1880.0 | 1932.5 |
| 65°   | 597.0 | 604.3 | 628.8 | 725.6 | 958.3 | 1299.5 | 1756.2 | 2000.2 | 2045.5 | 2086.3 | 2147.8 |
| 67°   | 556.0 | 556.8 | 577.4 | 668.4 | 891.4 | 1280.0 | 1787.6 | 2026.5 | 2068.4 | 2109.7 | 2181.1 |
| 67.5° | 541.6 | 545.6 | 561.7 | 649.4 | 866.0 | 1265.5 | 1775.2 | 2012.3 | 2052.8 | 2096.9 | 2169.8 |
| 70°   | 437.9 | 439.0 | 454.5 | 518.1 | 687.2 | 1049.3 | 1594.5 | 1830.5 | 1858.3 | 1922.8 | 1994.4 |
| 72.5° | 267.1 | 265.2 | 270.2 | 317.3 | 452.3 | 726.7  | 1276.7 | 1507.0 | 1545.0 | 1600.0 | 1648.4 |
| 75°   | 147.0 | 155.8 | 161.8 | 194.5 | 254.1 | 427.3  | 869.3  | 1090.4 | 1146.1 | 1178.8 | 1188.5 |
| 77.5° | 89.9  | 89.1  | 91.9  | 125.5 | 208.4 | 292.3  | 480.2  | 639.7  | 670.8  | 680.1  | 644.1  |
| 80°   | 42.7  | 44.4  | 43.8  | 51.7  | 101.0 | 246.6  | 335.7  | 410.8  | 426.5  | 435.5  | 447.2  |
| 82.5° | 23.4  | 24.3  | 27.6  | 30.9  | 39.8  | 106.1  | 289.7  | 378.9  | 389.5  | 404.8  | 422.0  |
| 85°   | 14.6  | 15.3  | 21.2  | 22.3  | 24.5  | 32.7   | 120.7  | 221.4  | 230.3  | 260.9  | 270.5  |
| 87.5° | 6.0   | 6.6   | 11.5  | 10.4  | 12.4  | 11.5   | 36.5   | 56.3   | 59.7   | 63.6   | 70.5   |
| 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):**

|       | 65°    | 66°    | 67°    | 67.5°  | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  |
| 2.5°  | 295.4  | 295.2  | 294.5  | 294.3  | 294.6  | 294.6  | 294.3  | 293.7  | 293.6  | 293.4  | 293.0  |
| 5°    | 304.1  | 303.8  | 303.2  | 302.9  | 302.7  | 302.7  | 302.1  | 301.6  | 301.0  | 300.3  | 300.1  |
| 7.5°  | 314.6  | 314.6  | 314.4  | 313.8  | 313.3  | 312.5  | 312.0  | 311.5  | 310.9  | 310.5  | 310.0  |
| 10°   | 328.3  | 329.0  | 327.7  | 327.3  | 327.2  | 326.1  | 325.9  | 325.3  | 325.0  | 324.1  | 324.1  |
| 12.5° | 344.5  | 343.8  | 343.6  | 342.9  | 342.9  | 342.3  | 342.1  | 342.0  | 341.6  | 340.9  | 340.7  |
| 15°   | 358.0  | 358.0  | 357.9  | 357.5  | 357.9  | 357.5  | 356.9  | 357.3  | 356.8  | 356.9  | 356.4  |
| 17.5° | 369.0  | 369.7  | 369.5  | 369.7  | 369.5  | 369.5  | 369.9  | 369.9  | 370.3  | 369.5  | 369.7  |
| 20°   | 378.1  | 379.2  | 379.8  | 379.4  | 379.8  | 380.0  | 380.9  | 381.2  | 381.8  | 382.1  | 382.1  |
| 22.5° | 387.6  | 389.1  | 390.2  | 390.2  | 390.9  | 391.6  | 393.3  | 393.7  | 394.9  | 394.8  | 395.7  |
| 25°   | 401.0  | 403.3  | 404.1  | 405.2  | 406.1  | 407.4  | 409.4  | 410.3  | 410.8  | 412.1  | 413.6  |
| 27.5° | 421.4  | 424.3  | 424.9  | 426.2  | 428.5  | 429.3  | 431.5  | 432.4  | 434.4  | 437.1  | 437.7  |
| 30°   | 449.4  | 453.0  | 453.2  | 454.7  | 457.4  | 458.3  | 460.1  | 462.5  | 464.2  | 466.9  | 467.1  |
| 32.5° | 487.4  | 491.0  | 490.5  | 493.2  | 493.0  | 495.8  | 495.2  | 498.9  | 500.3  | 501.8  | 505.8  |
| 35°   | 538.0  | 537.6  | 540.3  | 541.3  | 540.7  | 542.9  | 542.5  | 544.2  | 545.6  | 545.6  | 550.0  |
| 37.5° | 610.8  | 610.3  | 609.9  | 606.1  | 605.2  | 605.4  | 604.6  | 606.1  | 603.7  | 603.7  | 608.5  |
| 40°   | 708.6  | 705.3  | 702.7  | 700.2  | 697.6  | 694.1  | 691.2  | 690.5  | 686.5  | 686.3  | 684.5  |
| 42.5° | 793.5  | 790.4  | 788.6  | 783.7  | 781.1  | 780.5  | 773.4  | 771.4  | 770.3  | 771.1  | 769.2  |
| 45°   | 882.7  | 879.4  | 872.4  | 870.2  | 869.5  | 865.7  | 864.6  | 859.6  | 858.2  | 860.7  | 859.8  |
| 47.5° | 974.5  | 969.8  | 966.0  | 963.4  | 962.5  | 959.2  | 954.5  | 958.5  | 956.5  | 955.0  | 952.3  |
| 50°   | 1057.1 | 1051.8 | 1051.8 | 1047.2 | 1048.0 | 1045.8 | 1040.9 | 1042.0 | 1036.3 | 1038.5 | 1037.0 |
| 52.5° | 1126.3 | 1126.7 | 1128.5 | 1123.4 | 1124.3 | 1124.3 | 1122.7 | 1117.4 | 1118.9 | 1118.1 | 1121.6 |
| 55°   | 1214.4 | 1220.4 | 1217.1 | 1218.0 | 1219.1 | 1224.3 | 1227.9 | 1224.8 | 1219.7 | 1223.7 | 1234.8 |
| 57.5° | 1368.4 | 1373.9 | 1377.1 | 1379.7 | 1383.9 | 1386.3 | 1406.0 | 1408.8 | 1402.9 | 1415.0 | 1439.8 |
| 60°   | 1636.2 | 1642.8 | 1652.6 | 1665.6 | 1668.3 | 1684.9 | 1695.2 | 1707.2 | 1711.6 | 1722.0 | 1748.7 |
| 62.5° | 1958.2 | 1973.0 | 1974.8 | 1991.3 | 2004.1 | 1988.5 | 1992.6 | 2007.4 | 1990.6 | 2013.6 | 2014.7 |
| 65°   | 2169.0 | 2190.6 | 2191.3 | 2197.3 | 2202.1 | 2187.5 | 2180.9 | 2174.3 | 2158.4 | 2157.5 | 2173.4 |
| 67°   | 2205.2 | 2224.9 | 2233.1 | 2236.1 | 2235.3 | 2227.8 | 2217.1 | 2198.1 | 2182.7 | 2174.0 | 2180.5 |
| 67.5° | 2195.0 | 2214.3 | 2225.8 | 2228.6 | 2228.8 | 2221.5 | 2211.6 | 2190.9 | 2176.5 | 2166.6 | 2173.6 |
| 70°   | 2026.9 | 2072.2 | 2091.9 | 2081.7 | 2087.6 | 2087.6 | 2087.2 | 2068.2 | 2061.1 | 2051.6 | 2047.9 |
| 72.5° | 1685.3 | 1716.7 | 1741.8 | 1728.4 | 1730.1 | 1742.5 | 1739.6 | 1741.6 | 1721.1 | 1718.9 | 1685.1 |
| 75°   | 1207.3 | 1217.3 | 1208.9 | 1218.4 | 1167.3 | 1149.0 | 1117.9 | 1072.6 | 1060.8 | 1042.0 | 985.7  |
| 77.5° | 641.4  | 630.0  | 607.6  | 605.7  | 584.7  | 568.5  | 548.4  | 535.2  | 502.0  | 483.5  | 441.3  |
| 80°   | 453.0  | 458.5  | 467.1  | 472.2  | 477.0  | 480.6  | 473.1  | 452.1  | 424.3  | 393.3  | 363.9  |
| 82.5° | 432.7  | 440.2  | 445.3  | 447.9  | 446.1  | 440.2  | 423.1  | 403.0  | 365.9  | 339.0  | 307.3  |
| 85°   | 272.9  | 278.9  | 268.5  | 266.3  | 270.9  | 234.0  | 213.7  | 197.3  | 159.8  | 148.7  | 131.3  |
| 87.5° | 73.3   | 77.3   | 77.5   | 75.1   | 73.6   | 64.8   | 57.4   | 50.8   | 42.0   | 39.5   | 32.0   |
| 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):**

|       | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  |
| 2.5°  | 293.0  | 292.8  | 292.8  | 292.3  | 291.9  | 291.7  | 291.5  | 291.0  | 290.6  | 290.6  | 290.4  |
| 5°    | 299.9  | 299.6  | 299.0  | 298.8  | 298.1  | 297.8  | 297.0  | 296.7  | 296.1  | 295.7  | 295.6  |
| 7.5°  | 309.8  | 308.9  | 307.8  | 308.0  | 306.9  | 306.3  | 306.0  | 305.2  | 304.7  | 304.1  | 304.0  |
| 10°   | 323.0  | 322.8  | 321.7  | 322.0  | 320.0  | 321.0  | 319.1  | 319.3  | 318.2  | 317.1  | 316.9  |
| 12.5° | 339.8  | 339.6  | 338.5  | 337.2  | 336.8  | 337.0  | 335.9  | 336.1  | 334.8  | 334.5  | 334.1  |
| 15°   | 355.8  | 355.5  | 354.9  | 354.0  | 353.5  | 353.3  | 352.9  | 352.6  | 351.5  | 351.5  | 350.2  |
| 17.5° | 369.7  | 369.9  | 369.2  | 368.4  | 368.1  | 367.5  | 367.3  | 367.3  | 366.4  | 365.5  | 365.7  |
| 20°   | 382.0  | 382.3  | 382.3  | 381.8  | 382.0  | 381.6  | 381.4  | 381.8  | 380.9  | 380.5  | 380.0  |
| 22.5° | 395.7  | 395.7  | 395.8  | 396.2  | 396.8  | 396.9  | 396.9  | 396.6  | 396.0  | 395.8  | 394.8  |
| 25°   | 414.7  | 413.9  | 414.8  | 415.2  | 415.2  | 416.1  | 415.8  | 415.9  | 416.1  | 415.6  | 415.0  |
| 27.5° | 438.6  | 437.9  | 439.7  | 441.0  | 440.8  | 441.3  | 442.4  | 441.1  | 441.9  | 442.4  | 441.1  |
| 30°   | 468.0  | 469.8  | 471.1  | 472.0  | 471.7  | 473.3  | 473.8  | 473.7  | 473.1  | 474.0  | 474.0  |
| 32.5° | 505.4  | 504.5  | 507.8  | 509.8  | 510.0  | 509.6  | 510.6  | 511.7  | 510.7  | 512.2  | 511.5  |
| 35°   | 550.0  | 550.6  | 551.3  | 553.5  | 554.4  | 552.9  | 554.4  | 555.7  | 555.3  | 555.5  | 556.2  |
| 37.5° | 607.6  | 608.5  | 607.7  | 607.9  | 607.6  | 614.5  | 615.6  | 616.7  | 615.4  | 614.3  | 617.6  |
| 40°   | 687.4  | 687.4  | 687.2  | 689.6  | 685.6  | 689.9  | 688.7  | 691.8  | 695.1  | 693.2  | 698.2  |
| 42.5° | 765.9  | 770.3  | 770.7  | 767.2  | 770.1  | 774.9  | 774.9  | 776.9  | 779.8  | 776.9  | 781.6  |
| 45°   | 856.0  | 861.5  | 860.6  | 866.4  | 862.0  | 867.5  | 868.4  | 865.9  | 872.2  | 873.0  | 871.2  |
| 47.5° | 954.3  | 955.4  | 955.5  | 957.6  | 958.5  | 962.9  | 962.7  | 967.4  | 966.0  | 958.7  | 961.2  |
| 50°   | 1038.5 | 1041.2 | 1042.7 | 1044.0 | 1048.5 | 1051.6 | 1055.8 | 1056.6 | 1055.5 | 1053.3 | 1051.3 |
| 52.5° | 1122.7 | 1129.3 | 1133.5 | 1144.8 | 1151.9 | 1157.6 | 1164.5 | 1167.1 | 1165.8 | 1165.3 | 1157.2 |
| 55°   | 1235.4 | 1251.1 | 1275.4 | 1291.1 | 1308.3 | 1318.3 | 1326.4 | 1330.4 | 1327.5 | 1328.9 | 1312.3 |
| 57.5° | 1447.7 | 1484.6 | 1505.7 | 1532.6 | 1562.9 | 1575.5 | 1579.0 | 1593.2 | 1577.5 | 1561.8 | 1549.2 |
| 60°   | 1763.1 | 1797.1 | 1835.7 | 1863.2 | 1873.5 | 1908.4 | 1891.9 | 1873.5 | 1856.7 | 1824.1 | 1787.4 |
| 62.5° | 2047.9 | 2091.8 | 2111.5 | 2137.2 | 2130.3 | 2127.4 | 2116.4 | 2087.0 | 2051.0 | 2002.6 | 1953.7 |
| 65°   | 2188.4 | 2213.0 | 2225.3 | 2233.7 | 2225.8 | 2205.6 | 2169.4 | 2125.9 | 2074.4 | 2011.7 | 1947.4 |
| 67°   | 2194.1 | 2205.4 | 2209.4 | 2201.4 | 2183.8 | 2152.2 | 2106.6 | 2045.0 | 1981.6 | 1909.8 | 1837.5 |
| 67.5° | 2184.7 | 2192.2 | 2194.2 | 2181.6 | 2160.8 | 2126.6 | 2077.9 | 2012.1 | 1944.7 | 1870.2 | 1797.5 |
| 70°   | 2057.6 | 2052.1 | 2034.4 | 2017.0 | 1952.0 | 1906.2 | 1821.2 | 1751.1 | 1657.5 | 1589.0 | 1511.4 |
| 72.5° | 1671.6 | 1646.6 | 1629.4 | 1552.7 | 1474.1 | 1428.7 | 1337.3 | 1253.5 | 1168.2 | 1103.0 | 1055.3 |
| 75°   | 938.4  | 920.1  | 872.4  | 831.9  | 767.0  | 707.7  | 665.1  | 611.8  | 560.6  | 530.3  | 508.0  |
| 77.5° | 424.0  | 371.7  | 335.7  | 290.3  | 234.5  | 188.5  | 139.9  | 129.3  | 110.3  | 105.6  | 95.2   |
| 80°   | 330.8  | 293.4  | 246.2  | 194.2  | 137.0  | 92.1   | 67.6   | 57.4   | 53.9   | 51.7   | 50.6   |
| 82.5° | 276.0  | 227.4  | 191.4  | 135.9  | 87.0   | 58.5   | 44.0   | 39.8   | 37.3   | 35.4   | 33.8   |
| 85°   | 118.0  | 93.3   | 76.9   | 55.0   | 39.1   | 30.9   | 27.0   | 24.7   | 22.3   | 20.3   | 19.0   |
| 87.5° | 27.6   | 21.2   | 19.4   | 16.4   | 15.5   | 15.3   | 15.2   | 14.4   | 13.5   | 12.4   | 11.1   |
| 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):**

|       | 86°    | 87°    | 88°    | 89°    | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4  | 288.4 | 288.4 | 288.4 | 288.4 | 288.4 |
| 2.5°  | 290.3  | 290.1  | 289.7  | 289.2  | 289.2  | 288.4  | 286.1 | 284.4 | 282.6 | 281.5 | 280.4 |
| 5°    | 295.2  | 295.0  | 294.1  | 293.6  | 293.2  | 291.7  | 287.7 | 284.6 | 281.3 | 278.9 | 277.1 |
| 7.5°  | 303.4  | 302.9  | 302.1  | 301.8  | 300.7  | 298.8  | 293.0 | 288.6 | 283.9 | 280.0 | 276.9 |
| 10°   | 316.7  | 315.8  | 314.7  | 313.6  | 314.0  | 311.1  | 304.3 | 297.9 | 291.0 | 285.0 | 280.8 |
| 12.5° | 333.0  | 333.0  | 332.5  | 331.7  | 330.5  | 327.2  | 318.0 | 310.5 | 302.1 | 294.6 | 291.5 |
| 15°   | 350.2  | 349.3  | 348.4  | 347.3  | 347.1  | 342.7  | 334.5 | 325.9 | 317.1 | 310.7 | 307.1 |
| 17.5° | 364.2  | 364.6  | 363.3  | 363.0  | 362.6  | 358.2  | 349.4 | 341.8 | 335.4 | 328.6 | 322.8 |
| 20°   | 379.2  | 378.5  | 378.1  | 377.6  | 377.4  | 373.7  | 366.8 | 362.1 | 356.4 | 346.2 | 330.8 |
| 22.5° | 395.3  | 394.4  | 394.8  | 393.7  | 393.5  | 390.9  | 385.8 | 384.3 | 375.9 | 354.4 | 327.7 |
| 25°   | 416.1  | 414.5  | 415.0  | 415.0  | 415.2  | 412.8  | 412.3 | 409.7 | 388.5 | 352.4 | 315.3 |
| 27.5° | 441.0  | 441.7  | 441.7  | 441.5  | 440.2  | 441.0  | 443.5 | 434.8 | 392.9 | 341.8 | 296.7 |
| 30°   | 473.3  | 473.7  | 474.0  | 475.3  | 472.6  | 477.3  | 480.4 | 452.5 | 389.6 | 327.2 | 273.3 |
| 32.5° | 512.6  | 511.1  | 511.8  | 512.6  | 513.5  | 518.4  | 516.6 | 461.4 | 380.0 | 307.3 | 244.2 |
| 35°   | 555.9  | 558.6  | 559.3  | 561.0  | 562.8  | 570.3  | 549.3 | 463.3 | 365.2 | 280.6 | 207.1 |
| 37.5° | 620.3  | 624.7  | 624.7  | 630.6  | 627.1  | 636.2  | 578.5 | 458.9 | 342.7 | 243.5 | 165.3 |
| 40°   | 701.6  | 703.6  | 705.7  | 706.4  | 704.6  | 703.5  | 597.7 | 448.1 | 311.1 | 196.9 | 120.9 |
| 42.5° | 784.6  | 783.8  | 784.0  | 785.3  | 780.4  | 759.7  | 609.6 | 429.3 | 271.8 | 147.0 | 86.8  |
| 45°   | 873.9  | 870.8  | 869.9  | 867.3  | 862.9  | 819.5  | 616.3 | 402.8 | 220.1 | 103.4 | 68.1  |
| 47.5° | 960.8  | 957.0  | 951.2  | 944.0  | 935.6  | 867.5  | 615.6 | 368.4 | 168.8 | 74.0  | 60.1  |
| 50°   | 1050.0 | 1043.2 | 1030.6 | 1023.7 | 1009.4 | 915.2  | 611.4 | 330.3 | 121.5 | 61.2  | 56.3  |
| 52.5° | 1151.9 | 1139.9 | 1128.2 | 1114.3 | 1090.7 | 973.8  | 605.0 | 287.3 | 88.6  | 56.1  | 53.7  |
| 55°   | 1303.9 | 1284.2 | 1265.0 | 1236.1 | 1213.3 | 1052.4 | 594.2 | 241.1 | 70.0  | 54.1  | 52.2  |
| 57.5° | 1513.4 | 1479.8 | 1455.5 | 1416.6 | 1380.1 | 1161.1 | 582.7 | 199.1 | 62.5  | 53.5  | 51.5  |
| 60°   | 1749.2 | 1698.6 | 1653.3 | 1605.5 | 1563.8 | 1296.8 | 576.7 | 166.2 | 60.8  | 54.1  | 51.7  |
| 62.5° | 1897.2 | 1837.5 | 1780.9 | 1722.4 | 1662.5 | 1361.6 | 550.6 | 143.6 | 61.6  | 56.4  | 53.2  |
| 65°   | 1878.6 | 1812.6 | 1751.1 | 1679.8 | 1623.4 | 1300.4 | 484.1 | 121.5 | 62.8  | 60.6  | 57.2  |
| 67°   | 1752.9 | 1689.0 | 1618.8 | 1549.0 | 1494.2 | 1184.1 | 408.6 | 102.3 | 64.3  | 65.4  | 61.6  |
| 67.5° | 1719.3 | 1647.3 | 1576.6 | 1512.5 | 1453.1 | 1148.1 | 388.9 | 97.5  | 64.7  | 66.7  | 63.0  |
| 70°   | 1433.8 | 1376.8 | 1294.0 | 1246.5 | 1203.6 | 930.7  | 290.1 | 75.8  | 65.8  | 72.3  | 70.0  |
| 72.5° | 1003.2 | 948.1  | 904.8  | 878.8  | 853.8  | 676.2  | 204.0 | 60.5  | 64.1  | 75.4  | 73.1  |
| 75°   | 506.7  | 494.1  | 479.0  | 470.6  | 470.9  | 393.1  | 122.9 | 51.5  | 60.3  | 72.3  | 66.3  |
| 77.5° | 100.1  | 97.5   | 98.6   | 108.0  | 106.3  | 121.1  | 61.0  | 43.7  | 51.3  | 55.7  | 47.7  |
| 80°   | 48.4   | 46.8   | 45.3   | 44.9   | 44.0   | 42.2   | 38.4  | 36.4  | 41.6  | 36.7  | 31.6  |
| 82.5° | 31.4   | 29.6   | 28.9   | 27.4   | 27.6   | 30.0   | 33.4  | 34.9  | 33.8  | 25.4  | 21.4  |
| 85°   | 17.7   | 17.5   | 17.2   | 17.5   | 18.3   | 23.9   | 35.8  | 32.7  | 27.2  | 17.9  | 16.1  |
| 87.5° | 10.6   | 10.0   | 10.2   | 10.4   | 10.8   | 17.7   | 28.3  | 23.6  | 17.4  | 9.3   | 9.5   |
| 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):**

|       | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 288.4 | 288.4 | 288.4 | 288.4 |
| 2.5°  | 280.2 | 279.5 | 279.5 | 279.3 |
| 5°    | 275.6 | 274.6 | 274.4 | 274.4 |
| 7.5°  | 274.9 | 273.5 | 273.3 | 272.7 |
| 10°   | 278.2 | 277.7 | 277.8 | 277.3 |
| 12.5° | 288.6 | 289.3 | 290.1 | 290.1 |
| 15°   | 304.5 | 304.0 | 304.9 | 304.0 |
| 17.5° | 316.2 | 311.5 | 310.4 | 309.8 |
| 20°   | 316.6 | 306.7 | 303.4 | 302.9 |
| 22.5° | 305.2 | 290.6 | 285.1 | 284.2 |
| 25°   | 286.1 | 267.6 | 260.7 | 259.9 |
| 27.5° | 261.9 | 241.3 | 231.1 | 230.7 |
| 30°   | 232.9 | 208.4 | 195.5 | 193.4 |
| 32.5° | 197.5 | 168.4 | 154.7 | 150.3 |
| 35°   | 156.5 | 126.8 | 114.0 | 113.6 |
| 37.5° | 116.9 | 93.7  | 85.5  | 85.1  |
| 40°   | 85.7  | 73.6  | 70.5  | 70.0  |
| 42.5° | 70.0  | 65.0  | 63.8  | 63.2  |
| 45°   | 62.7  | 60.6  | 59.9  | 59.4  |
| 47.5° | 58.3  | 57.0  | 56.4  | 56.4  |
| 50°   | 54.8  | 54.4  | 54.1  | 54.1  |
| 52.5° | 52.4  | 52.2  | 51.9  | 51.7  |
| 55°   | 50.4  | 49.7  | 49.9  | 49.7  |
| 57.5° | 49.1  | 48.0  | 48.0  | 48.0  |
| 60°   | 48.4  | 46.4  | 46.4  | 46.6  |
| 62.5° | 48.6  | 45.5  | 45.3  | 45.3  |
| 65°   | 50.1  | 44.9  | 43.8  | 44.0  |
| 67°   | 51.9  | 44.4  | 42.2  | 42.0  |
| 67.5° | 52.4  | 44.0  | 41.6  | 41.5  |
| 70°   | 54.6  | 42.9  | 38.9  | 38.5  |
| 72.5° | 55.0  | 41.3  | 36.2  | 35.8  |
| 75°   | 51.1  | 39.1  | 34.0  | 33.1  |
| 77.5° | 39.8  | 33.6  | 30.7  | 30.7  |
| 80°   | 27.9  | 25.8  | 21.9  | 21.7  |
| 82.5° | 20.5  | 19.4  | 16.1  | 15.7  |
| 85°   | 15.0  | 14.1  | 11.9  | 11.9  |
| 87.5° | 9.3   | 9.0   | 7.7   | 7.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)