

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: P146380

Luminaire Tested: **LDRC-T2-E01-E**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146380  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRC-T2-E01-E  
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2998.6 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

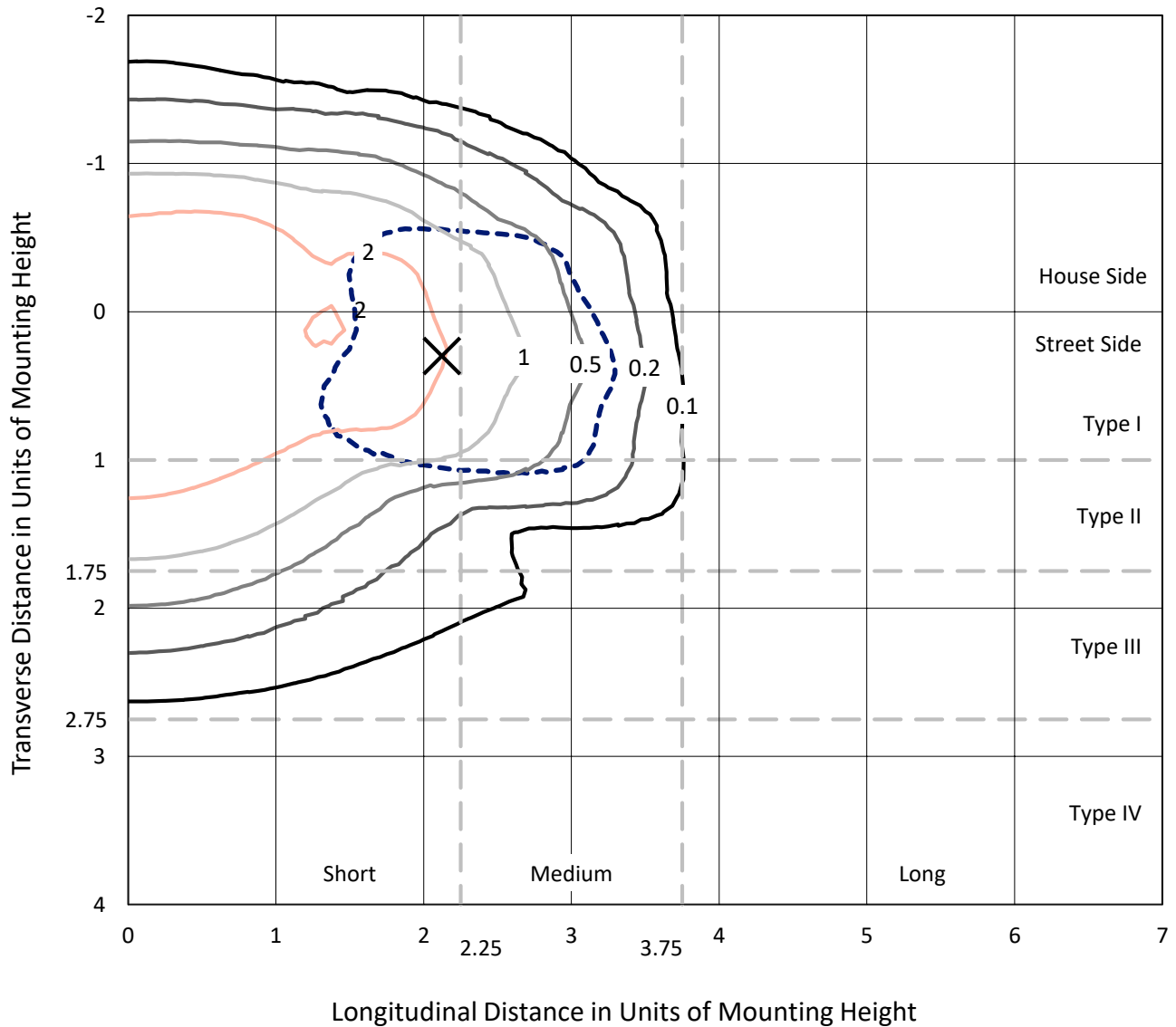
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

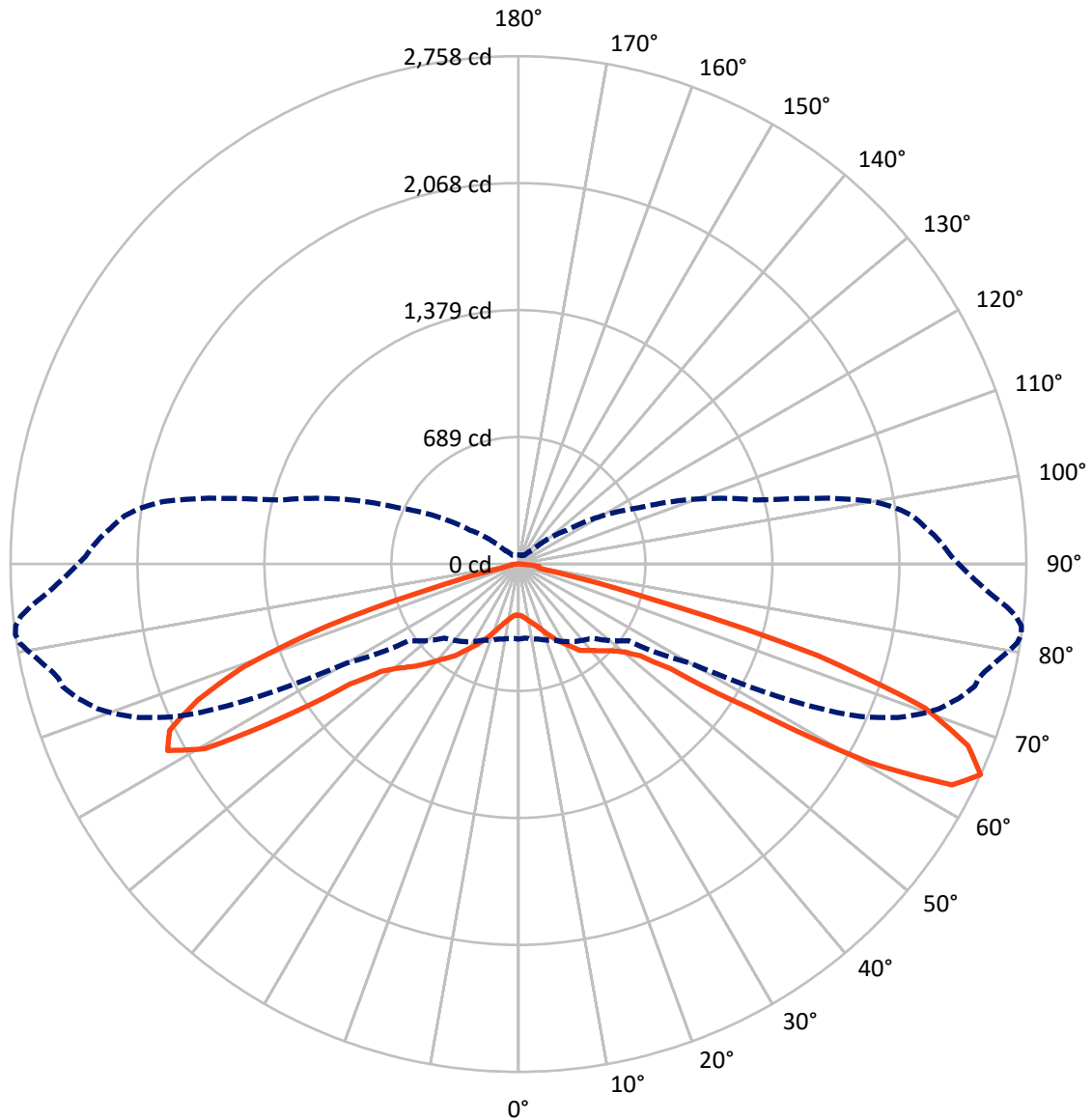
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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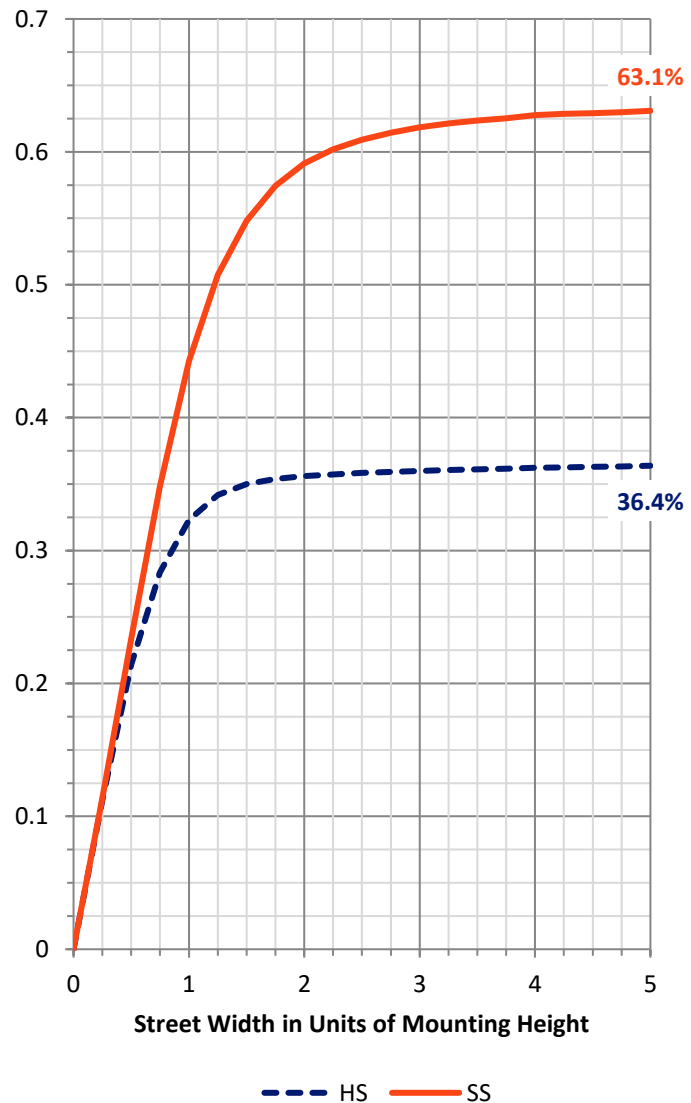
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1103.8   | 0.0    | 1103.8 |
|                    | % Fixture | 36.8     | 0.0    | 36.8   |
| <b>Street Side</b> | Lumens    | 1894.8   | 0.0    | 1894.8 |
|                    | % Fixture | 63.2     | 0.0    | 63.2   |
| <b>Total</b>       | Lumens    | 2998.6   | 0.0    | 2998.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.2   | 0.9       |
| 10°-20°   | 99.3   | 3.3       |
| 20°-30°   | 197.0  | 6.6       |
| 30°-40°   | 336.1  | 11.2      |
| 40°-50°   | 504.0  | 16.8      |
| 50°-60°   | 701.5  | 23.4      |
| 60°-70°   | 805.9  | 26.9      |
| 70°-80°   | 278.1  | 9.3       |
| 80°-90°   | 48.6   | 1.6       |
| 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°    | 2998.6 | 100.0     |
| 0°-180°   | 2998.6 | 100.0     |



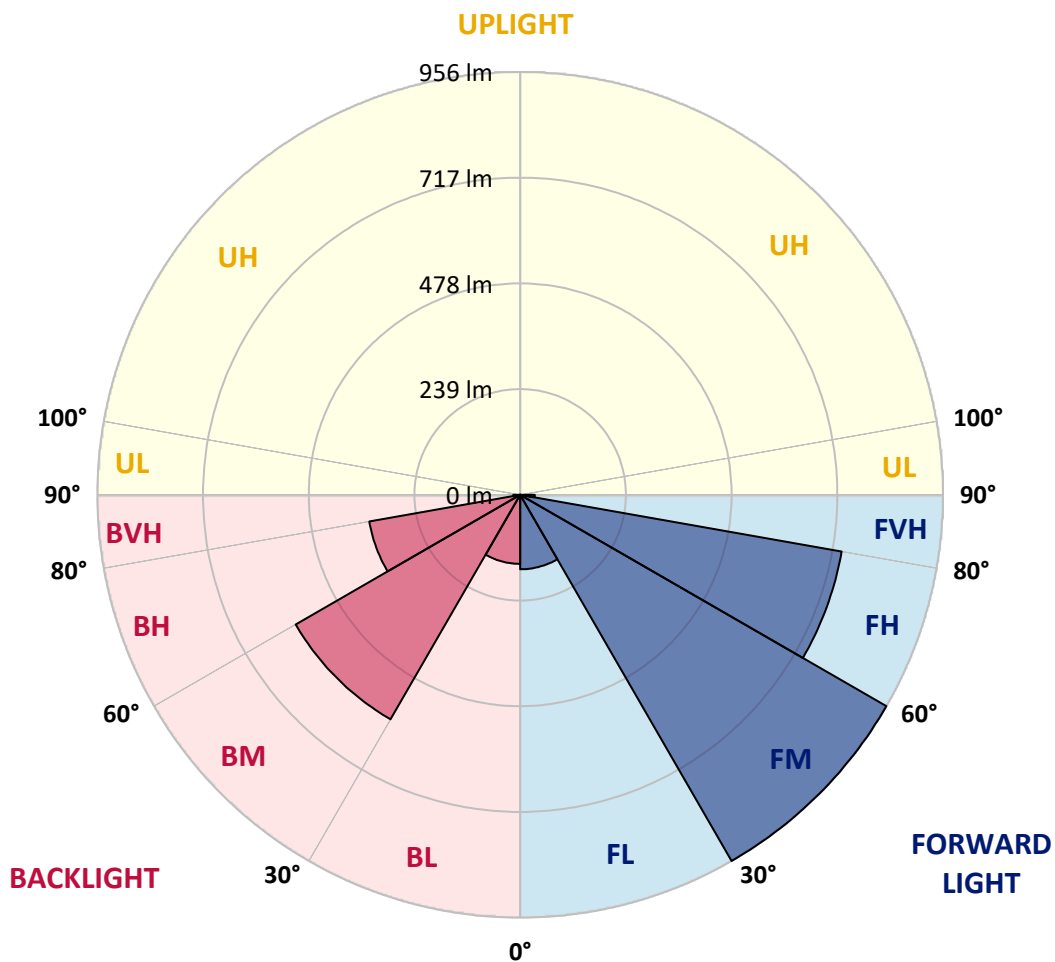
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 168.3  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 955.7  | 31.9      |                         |      |         |
| FH   | (60°-80°)   | 737.7  | 24.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 33.0   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 156.1  | 5.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 585.8  | 19.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 346.2  | 11.5      | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 15.6   | 0.5       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 277.8 | 277.8 | 277.8 | 277.8 | 277.8 | 277.8 | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  |
| 2.5°  | 293.2 | 293.0 | 292.8 | 292.0 | 291.6 | 290.0 | 288.4  | 287.4  | 286.6  | 287.0  | 285.8  |
| 5°    | 310.2 | 310.2 | 309.4 | 308.4 | 307.2 | 305.0 | 301.0  | 299.0  | 298.6  | 298.6  | 297.2  |
| 7.5°  | 327.6 | 328.8 | 326.6 | 325.8 | 323.8 | 320.4 | 315.8  | 313.2  | 312.4  | 312.4  | 311.2  |
| 10°   | 349.6 | 349.0 | 346.6 | 345.0 | 341.0 | 336.4 | 330.2  | 327.2  | 326.0  | 327.0  | 325.0  |
| 12.5° | 372.8 | 372.6 | 369.0 | 366.0 | 360.4 | 353.0 | 344.8  | 340.8  | 340.0  | 340.0  | 338.8  |
| 15°   | 396.4 | 396.6 | 392.6 | 387.0 | 378.2 | 368.2 | 359.0  | 355.2  | 354.2  | 353.8  | 352.4  |
| 17.5° | 414.4 | 416.4 | 412.4 | 405.2 | 394.4 | 383.4 | 373.6  | 369.8  | 369.6  | 369.2  | 367.6  |
| 20°   | 424.6 | 425.0 | 422.8 | 417.6 | 408.0 | 397.4 | 390.6  | 388.8  | 388.6  | 388.8  | 389.2  |
| 22.5° | 424.2 | 424.8 | 424.0 | 422.0 | 415.8 | 410.0 | 409.2  | 410.2  | 410.8  | 410.2  | 411.6  |
| 25°   | 421.0 | 421.8 | 421.8 | 422.8 | 421.2 | 423.2 | 429.6  | 432.4  | 432.6  | 433.0  | 436.0  |
| 27.5° | 428.0 | 428.8 | 428.6 | 430.4 | 431.8 | 438.8 | 450.4  | 455.4  | 456.0  | 457.4  | 460.2  |
| 30°   | 460.4 | 460.6 | 457.0 | 456.8 | 458.2 | 463.8 | 475.6  | 481.4  | 480.8  | 483.6  | 485.4  |
| 32.5° | 511.6 | 513.2 | 509.6 | 505.8 | 505.2 | 506.0 | 508.2  | 512.2  | 511.6  | 513.0  | 515.4  |
| 35°   | 570.0 | 570.2 | 568.2 | 570.4 | 571.6 | 566.2 | 555.8  | 554.8  | 551.6  | 552.2  | 553.0  |
| 37.5° | 623.6 | 625.0 | 628.8 | 642.8 | 650.8 | 637.6 | 617.2  | 604.4  | 602.4  | 601.4  | 594.4  |
| 40°   | 673.8 | 680.8 | 690.0 | 708.2 | 719.2 | 724.0 | 695.0  | 669.2  | 662.2  | 659.4  | 648.4  |
| 42.5° | 732.6 | 736.2 | 747.0 | 767.8 | 782.4 | 804.2 | 784.8  | 756.4  | 748.2  | 736.2  | 722.4  |
| 45°   | 782.4 | 784.8 | 791.6 | 809.2 | 839.8 | 876.2 | 878.4  | 858.6  | 852.2  | 840.2  | 820.0  |
| 47.5° | 815.8 | 815.6 | 820.6 | 837.8 | 877.6 | 933.2 | 966.2  | 965.4  | 958.0  | 953.8  | 936.6  |
| 50°   | 828.8 | 828.6 | 831.8 | 851.0 | 894.4 | 967.2 | 1040.0 | 1065.0 | 1064.8 | 1066.4 | 1057.6 |
| 52.5° | 831.2 | 831.0 | 831.4 | 846.8 | 891.0 | 979.0 | 1093.2 | 1152.2 | 1160.8 | 1171.6 | 1181.4 |
| 55°   | 813.2 | 815.2 | 819.6 | 835.8 | 878.2 | 974.2 | 1132.6 | 1234.0 | 1254.6 | 1276.6 | 1312.2 |
| 57.5° | 771.6 | 775.4 | 790.6 | 819.6 | 864.6 | 962.4 | 1160.0 | 1335.2 | 1377.0 | 1430.2 | 1526.6 |
| 60°   | 712.0 | 715.4 | 736.4 | 774.8 | 825.0 | 911.0 | 1128.2 | 1377.6 | 1457.0 | 1549.4 | 1747.0 |
| 62.5° | 606.6 | 616.2 | 627.4 | 654.6 | 707.2 | 776.4 | 985.4  | 1306.0 | 1429.0 | 1564.6 | 1836.6 |
| 65°   | 407.4 | 403.4 | 422.0 | 456.6 | 514.4 | 568.2 | 726.0  | 1077.2 | 1232.8 | 1419.4 | 1756.0 |
| 67.5° | 252.2 | 252.8 | 265.4 | 299.2 | 342.8 | 384.6 | 460.2  | 686.6  | 824.6  | 1002.0 | 1406.8 |
| 70°   | 208.4 | 210.8 | 221.0 | 252.4 | 289.6 | 336.8 | 341.6  | 364.0  | 425.8  | 511.6  | 869.0  |
| 72.5° | 165.4 | 166.4 | 176.8 | 203.0 | 255.6 | 320.4 | 405.6  | 276.6  | 271.8  | 284.8  | 440.8  |
| 75°   | 102.6 | 103.4 | 108.6 | 125.4 | 165.8 | 249.6 | 446.6  | 318.0  | 298.0  | 281.2  | 284.0  |
| 77.5° | 53.0  | 54.6  | 57.4  | 65.0  | 87.0  | 139.4 | 351.6  | 403.2  | 380.4  | 357.6  | 313.0  |
| 80°   | 30.0  | 30.0  | 32.6  | 34.4  | 41.2  | 56.8  | 178.8  | 436.4  | 476.8  | 486.6  | 437.0  |
| 82.5° | 13.4  | 15.0  | 20.2  | 21.6  | 23.6  | 26.0  | 59.2   | 262.2  | 363.8  | 454.4  | 561.6  |
| 85°   | 8.0   | 7.8   | 12.8  | 14.0  | 14.6  | 12.4  | 22.2   | 107.0  | 170.0  | 248.8  | 372.2  |
| 87.5° | 3.2   | 3.4   | 5.4   | 5.8   | 6.8   | 5.0   | 8.4    | 23.0   | 33.8   | 49.0   | 69.2   |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  |
| 2.5°  | 285.6  | 285.6  | 285.4  | 285.2  | 285.0  | 284.4  | 284.2  | 283.8  | 283.6  | 283.0  | 282.8  |
| 5°    | 297.0  | 296.4  | 296.2  | 295.8  | 295.6  | 294.8  | 294.8  | 294.0  | 293.4  | 292.6  | 292.4  |
| 7.5°  | 310.6  | 309.8  | 309.2  | 308.8  | 308.6  | 307.2  | 307.2  | 306.0  | 305.8  | 304.8  | 304.4  |
| 10°   | 324.4  | 323.8  | 323.0  | 322.6  | 322.4  | 321.6  | 320.8  | 320.0  | 319.4  | 318.8  | 318.0  |
| 12.5° | 338.2  | 337.0  | 336.6  | 336.0  | 335.6  | 335.0  | 334.8  | 333.0  | 333.0  | 332.4  | 331.6  |
| 15°   | 351.6  | 351.4  | 350.0  | 349.8  | 349.4  | 349.6  | 348.4  | 348.6  | 348.0  | 347.0  | 346.6  |
| 17.5° | 368.0  | 366.6  | 367.2  | 366.2  | 366.4  | 366.0  | 365.6  | 365.4  | 365.8  | 365.6  | 366.0  |
| 20°   | 388.4  | 388.0  | 388.6  | 387.2  | 388.6  | 388.8  | 388.4  | 389.4  | 389.0  | 389.4  | 388.2  |
| 22.5° | 412.6  | 411.2  | 411.2  | 412.2  | 412.8  | 414.6  | 413.6  | 414.4  | 415.2  | 415.8  | 415.0  |
| 25°   | 437.0  | 436.6  | 437.4  | 438.2  | 439.4  | 441.0  | 440.6  | 440.8  | 442.4  | 443.4  | 443.6  |
| 27.5° | 461.8  | 461.8  | 464.2  | 464.2  | 465.8  | 467.6  | 468.2  | 469.0  | 470.2  | 471.6  | 471.6  |
| 30°   | 487.4  | 487.4  | 489.6  | 491.6  | 492.4  | 494.6  | 495.8  | 497.0  | 499.2  | 499.6  | 501.4  |
| 32.5° | 516.6  | 517.2  | 519.4  | 520.6  | 522.4  | 525.0  | 525.4  | 526.8  | 529.4  | 530.2  | 531.6  |
| 35°   | 554.6  | 552.6  | 554.6  | 556.8  | 557.8  | 557.0  | 561.4  | 563.2  | 565.0  | 566.0  | 567.8  |
| 37.5° | 593.8  | 590.4  | 590.6  | 590.2  | 587.8  | 589.2  | 589.2  | 588.8  | 590.0  | 589.8  | 590.6  |
| 40°   | 643.4  | 637.4  | 635.6  | 631.8  | 626.6  | 623.8  | 620.8  | 620.4  | 617.4  | 618.6  | 616.4  |
| 42.5° | 711.4  | 702.4  | 697.6  | 685.8  | 679.4  | 671.8  | 664.4  | 658.0  | 654.6  | 650.8  | 648.0  |
| 45°   | 804.8  | 794.2  | 782.6  | 763.6  | 752.6  | 737.4  | 727.6  | 713.0  | 703.2  | 695.0  | 689.2  |
| 47.5° | 922.0  | 904.2  | 894.8  | 877.0  | 857.8  | 834.8  | 813.8  | 793.4  | 776.8  | 758.8  | 744.6  |
| 50°   | 1058.2 | 1036.0 | 1028.6 | 1005.0 | 994.2  | 968.4  | 946.0  | 920.8  | 894.8  | 867.6  | 841.6  |
| 52.5° | 1178.8 | 1176.2 | 1179.2 | 1163.4 | 1163.0 | 1150.0 | 1125.2 | 1095.8 | 1071.6 | 1044.2 | 1010.0 |
| 55°   | 1323.4 | 1349.2 | 1354.8 | 1352.6 | 1364.4 | 1364.0 | 1361.6 | 1358.6 | 1339.4 | 1300.6 | 1288.8 |
| 57.5° | 1578.6 | 1607.6 | 1650.4 | 1669.8 | 1712.6 | 1717.6 | 1757.2 | 1741.8 | 1771.2 | 1763.2 | 1768.6 |
| 60°   | 1838.4 | 1927.4 | 2008.6 | 2070.4 | 2130.4 | 2185.0 | 2251.8 | 2280.4 | 2301.8 | 2335.2 | 2370.4 |
| 62.5° | 1954.6 | 2066.8 | 2163.6 | 2251.6 | 2326.2 | 2395.4 | 2452.8 | 2507.2 | 2550.0 | 2588.4 | 2618.0 |
| 65°   | 1907.6 | 2037.8 | 2132.2 | 2224.0 | 2293.6 | 2358.0 | 2415.0 | 2455.8 | 2498.4 | 2533.2 | 2564.6 |
| 67.5° | 1588.2 | 1761.6 | 1884.8 | 1989.0 | 2076.4 | 2149.8 | 2209.0 | 2265.2 | 2295.4 | 2333.4 | 2350.4 |
| 70°   | 1052.0 | 1274.4 | 1448.6 | 1589.4 | 1728.0 | 1811.2 | 1881.4 | 1946.8 | 1981.2 | 2012.0 | 2031.0 |
| 72.5° | 577.8  | 729.8  | 915.8  | 1083.2 | 1216.4 | 1325.6 | 1407.4 | 1469.4 | 1504.8 | 1531.2 | 1503.8 |
| 75°   | 327.4  | 402.4  | 493.4  | 586.0  | 687.0  | 764.0  | 785.6  | 812.0  | 818.2  | 804.6  | 769.4  |
| 77.5° | 301.0  | 301.0  | 301.2  | 299.0  | 303.4  | 308.8  | 305.6  | 300.2  | 275.8  | 270.4  | 262.8  |
| 80°   | 391.4  | 348.8  | 303.2  | 249.0  | 203.0  | 171.2  | 161.4  | 162.2  | 170.0  | 185.2  | 202.0  |
| 82.5° | 554.8  | 512.8  | 447.0  | 364.4  | 290.0  | 227.6  | 186.6  | 167.8  | 167.6  | 182.8  | 204.6  |
| 85°   | 404.6  | 408.0  | 393.4  | 348.0  | 277.6  | 218.6  | 176.6  | 135.6  | 122.4  | 122.4  | 120.8  |
| 87.5° | 70.8   | 73.0   | 63.0   | 56.4   | 39.4   | 27.8   | 25.0   | 22.0   | 21.8   | 22.6   | 20.8   |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  |
| 2.5°  | 282.8  | 282.4  | 282.0  | 281.8  | 281.8  | 281.4  | 281.4  | 281.0  | 281.2  | 281.0  | 280.4  |
| 5°    | 292.0  | 291.8  | 291.2  | 290.2  | 290.0  | 289.2  | 289.4  | 288.6  | 288.6  | 288.2  | 287.2  |
| 7.5°  | 303.6  | 303.2  | 302.8  | 302.0  | 301.2  | 301.2  | 299.8  | 299.8  | 298.8  | 298.4  | 297.6  |
| 10°   | 317.4  | 316.2  | 315.6  | 314.8  | 314.6  | 314.4  | 313.0  | 313.0  | 311.8  | 311.6  | 311.0  |
| 12.5° | 331.0  | 330.2  | 329.6  | 329.2  | 328.2  | 328.0  | 327.4  | 326.8  | 326.2  | 325.8  | 325.6  |
| 15°   | 345.8  | 345.4  | 344.8  | 344.8  | 344.8  | 343.8  | 343.2  | 342.8  | 342.8  | 342.2  | 342.6  |
| 17.5° | 365.0  | 365.6  | 364.8  | 364.4  | 363.8  | 364.8  | 363.8  | 363.8  | 364.4  | 364.4  | 363.0  |
| 20°   | 388.8  | 389.6  | 388.8  | 389.0  | 388.6  | 388.8  | 389.0  | 389.4  | 390.2  | 388.8  | 389.0  |
| 22.5° | 415.2  | 415.4  | 416.0  | 415.4  | 416.4  | 415.8  | 417.0  | 418.0  | 417.8  | 417.4  | 417.6  |
| 25°   | 444.0  | 443.4  | 443.6  | 445.4  | 446.8  | 446.4  | 446.6  | 448.2  | 447.8  | 447.4  | 447.6  |
| 27.5° | 473.2  | 472.8  | 473.4  | 475.0  | 476.6  | 476.4  | 476.0  | 477.2  | 477.2  | 476.2  | 476.6  |
| 30°   | 502.2  | 502.8  | 503.8  | 503.8  | 504.6  | 505.4  | 504.8  | 506.2  | 506.4  | 505.6  | 506.6  |
| 32.5° | 532.8  | 534.0  | 533.6  | 536.4  | 536.4  | 536.6  | 537.2  | 537.0  | 539.0  | 537.4  | 538.0  |
| 35°   | 569.6  | 570.0  | 572.4  | 574.4  | 575.6  | 576.6  | 576.6  | 577.2  | 578.2  | 577.4  | 578.6  |
| 37.5° | 592.0  | 592.8  | 593.6  | 594.8  | 594.8  | 594.8  | 595.8  | 596.0  | 596.6  | 596.4  | 596.8  |
| 40°   | 616.6  | 616.8  | 617.0  | 617.2  | 618.0  | 618.4  | 617.4  | 618.8  | 617.8  | 618.2  | 618.8  |
| 42.5° | 646.4  | 643.6  | 644.0  | 643.4  | 644.8  | 643.0  | 643.4  | 645.0  | 644.2  | 645.4  | 645.4  |
| 45°   | 681.0  | 677.8  | 675.0  | 673.4  | 673.4  | 671.0  | 671.4  | 672.0  | 673.0  | 674.6  | 677.4  |
| 47.5° | 732.2  | 721.2  | 715.8  | 710.2  | 707.4  | 704.4  | 705.4  | 705.6  | 706.0  | 708.6  | 715.6  |
| 50°   | 816.0  | 797.6  | 783.4  | 766.4  | 760.0  | 754.8  | 751.8  | 752.0  | 752.0  | 757.4  | 764.4  |
| 52.5° | 978.0  | 943.8  | 910.0  | 880.4  | 855.0  | 842.8  | 828.6  | 825.0  | 825.2  | 829.8  | 834.6  |
| 55°   | 1257.8 | 1210.8 | 1175.0 | 1109.2 | 1089.2 | 1033.0 | 1003.4 | 986.4  | 973.2  | 979.6  | 986.6  |
| 57.5° | 1759.8 | 1716.4 | 1688.0 | 1609.4 | 1537.8 | 1517.4 | 1468.8 | 1429.4 | 1413.2 | 1394.4 | 1395.6 |
| 60°   | 2375.6 | 2353.2 | 2346.0 | 2300.0 | 2274.2 | 2194.0 | 2187.6 | 2137.8 | 2090.8 | 2050.2 | 2066.8 |
| 62.5° | 2640.8 | 2651.2 | 2659.6 | 2675.8 | 2682.0 | 2674.4 | 2642.2 | 2620.2 | 2581.6 | 2528.4 | 2495.8 |
| 65°   | 2573.8 | 2597.6 | 2633.4 | 2667.2 | 2707.6 | 2741.2 | 2757.8 | 2751.4 | 2716.6 | 2661.8 | 2593.4 |
| 67.5° | 2362.6 | 2386.8 | 2417.6 | 2460.4 | 2522.2 | 2587.6 | 2633.2 | 2662.2 | 2634.6 | 2585.2 | 2515.6 |
| 70°   | 2030.0 | 2053.6 | 2054.6 | 2114.4 | 2181.0 | 2263.4 | 2344.2 | 2374.6 | 2343.2 | 2310.2 | 2252.0 |
| 72.5° | 1520.4 | 1506.2 | 1519.4 | 1530.4 | 1568.4 | 1620.4 | 1698.8 | 1695.4 | 1647.4 | 1621.8 | 1532.4 |
| 75°   | 714.6  | 705.0  | 691.0  | 681.8  | 673.0  | 654.6  | 663.4  | 625.8  | 612.8  | 618.0  | 540.8  |
| 77.5° | 257.0  | 243.8  | 222.6  | 202.0  | 176.0  | 145.8  | 123.0  | 108.0  | 100.6  | 100.8  | 96.2   |
| 80°   | 215.6  | 222.0  | 219.0  | 198.6  | 169.4  | 137.8  | 103.2  | 78.2   | 66.8   | 62.0   | 59.0   |
| 82.5° | 233.8  | 266.0  | 282.0  | 269.4  | 227.6  | 175.2  | 112.8  | 68.2   | 50.0   | 42.8   | 41.0   |
| 85°   | 129.6  | 129.8  | 125.8  | 120.2  | 106.6  | 73.2   | 48.8   | 32.4   | 26.0   | 23.2   | 22.4   |
| 87.5° | 22.0   | 21.0   | 21.0   | 19.6   | 17.2   | 16.8   | 15.0   | 14.2   | 12.6   | 11.6   | 11.2   |
| 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):**

|       | 87°    | 88°    | 89°    | 90°    | 91°    | 92°    | 93°    | 94°    | 95°    | 96°    | 97°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  |
| 2.5°  | 279.8  | 279.4  | 279.2  | 279.0  | 279.0  | 278.8  | 278.8  | 278.4  | 278.0  | 277.8  | 277.6  |
| 5°    | 286.2  | 285.8  | 285.4  | 285.0  | 285.0  | 284.6  | 284.2  | 283.8  | 283.2  | 282.2  | 282.0  |
| 7.5°  | 297.0  | 296.2  | 296.2  | 294.8  | 294.8  | 294.0  | 293.4  | 293.4  | 292.6  | 291.0  | 290.8  |
| 10°   | 310.4  | 309.0  | 308.4  | 307.6  | 307.2  | 306.4  | 306.4  | 305.6  | 305.2  | 304.6  | 302.6  |
| 12.5° | 324.8  | 323.8  | 323.4  | 322.4  | 321.8  | 321.8  | 321.4  | 320.0  | 321.0  | 319.6  | 318.6  |
| 15°   | 342.2  | 342.0  | 340.2  | 340.8  | 340.6  | 340.4  | 340.6  | 339.4  | 339.2  | 339.2  | 338.0  |
| 17.5° | 364.0  | 362.4  | 362.6  | 362.6  | 363.0  | 363.0  | 361.4  | 362.2  | 362.4  | 362.0  | 361.6  |
| 20°   | 389.6  | 389.0  | 389.6  | 388.4  | 389.6  | 389.6  | 390.4  | 390.2  | 390.4  | 390.8  | 390.8  |
| 22.5° | 417.0  | 418.6  | 418.8  | 419.2  | 417.8  | 420.2  | 420.2  | 420.6  | 421.6  | 421.6  | 422.0  |
| 25°   | 450.2  | 449.4  | 448.4  | 449.8  | 450.2  | 451.8  | 452.2  | 452.2  | 453.8  | 453.8  | 454.4  |
| 27.5° | 477.8  | 478.6  | 478.4  | 479.2  | 478.8  | 481.0  | 481.8  | 484.2  | 483.6  | 484.8  | 486.4  |
| 30°   | 506.2  | 507.8  | 507.0  | 507.2  | 508.2  | 509.6  | 511.2  | 513.6  | 514.0  | 517.2  | 518.0  |
| 32.5° | 539.0  | 540.2  | 541.2  | 541.6  | 541.6  | 544.0  | 546.6  | 547.4  | 551.6  | 554.0  | 556.8  |
| 35°   | 580.6  | 580.8  | 581.4  | 582.0  | 581.6  | 584.2  | 586.8  | 587.6  | 592.0  | 592.6  | 598.4  |
| 37.5° | 598.2  | 598.6  | 601.0  | 602.2  | 603.0  | 606.2  | 611.0  | 614.6  | 619.4  | 624.0  | 630.6  |
| 40°   | 620.2  | 622.6  | 624.8  | 626.6  | 629.6  | 634.0  | 641.4  | 645.0  | 652.2  | 660.8  | 667.2  |
| 42.5° | 648.0  | 652.4  | 654.0  | 657.4  | 664.8  | 670.2  | 677.6  | 685.4  | 695.0  | 705.4  | 713.0  |
| 45°   | 681.0  | 685.2  | 691.2  | 695.0  | 703.6  | 712.2  | 724.0  | 730.8  | 740.6  | 752.6  | 761.0  |
| 47.5° | 721.0  | 726.8  | 732.8  | 740.6  | 750.8  | 759.8  | 771.6  | 780.4  | 790.2  | 800.0  | 809.2  |
| 50°   | 770.8  | 779.4  | 787.4  | 795.6  | 809.2  | 816.8  | 828.4  | 837.6  | 846.8  | 856.6  | 865.0  |
| 52.5° | 837.8  | 850.8  | 861.0  | 866.6  | 885.0  | 892.6  | 906.8  | 913.2  | 920.8  | 929.6  | 940.4  |
| 55°   | 984.0  | 1004.2 | 1021.4 | 1031.4 | 1059.4 | 1069.4 | 1087.8 | 1097.2 | 1092.0 | 1103.2 | 1122.6 |
| 57.5° | 1406.8 | 1431.6 | 1452.2 | 1465.8 | 1494.4 | 1508.4 | 1509.4 | 1544.6 | 1523.8 | 1544.4 | 1547.4 |
| 60°   | 2022.6 | 2042.2 | 2037.2 | 2037.4 | 2028.4 | 2015.4 | 2040.4 | 2002.4 | 2018.4 | 2019.4 | 1983.6 |
| 62.5° | 2435.6 | 2405.6 | 2391.6 | 2368.4 | 2341.4 | 2320.6 | 2306.4 | 2275.8 | 2251.4 | 2232.0 | 2194.2 |
| 65°   | 2532.8 | 2480.8 | 2434.8 | 2391.4 | 2351.6 | 2324.0 | 2294.0 | 2261.2 | 2223.0 | 2190.8 | 2154.0 |
| 67.5° | 2438.8 | 2366.0 | 2297.8 | 2240.6 | 2186.2 | 2149.8 | 2106.4 | 2075.2 | 2027.2 | 1984.8 | 1956.8 |
| 70°   | 2166.2 | 2065.4 | 1985.8 | 1949.2 | 1895.2 | 1817.0 | 1775.6 | 1736.6 | 1707.2 | 1668.8 | 1651.8 |
| 72.5° | 1519.6 | 1395.2 | 1333.8 | 1336.2 | 1281.4 | 1225.4 | 1226.8 | 1203.0 | 1165.0 | 1163.8 | 1158.0 |
| 75°   | 558.4  | 508.0  | 472.6  | 474.2  | 453.8  | 432.0  | 438.0  | 444.4  | 432.0  | 457.2  | 418.2  |
| 77.5° | 88.8   | 86.4   | 85.6   | 83.8   | 79.4   | 82.6   | 80.4   | 84.6   | 85.2   | 89.8   | 90.2   |
| 80°   | 56.6   | 54.2   | 53.6   | 52.6   | 52.4   | 52.4   | 52.0   | 52.0   | 52.0   | 52.2   | 51.8   |
| 82.5° | 37.8   | 36.4   | 36.2   | 35.6   | 36.6   | 36.8   | 37.0   | 38.6   | 40.0   | 40.4   | 42.0   |
| 85°   | 20.6   | 19.6   | 19.6   | 19.2   | 20.0   | 20.2   | 22.0   | 24.2   | 27.0   | 28.2   | 30.8   |
| 87.5° | 10.4   | 11.0   | 10.8   | 11.2   | 11.8   | 13.2   | 14.6   | 16.0   | 17.6   | 19.8   | 21.6   |
| 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):**

|       | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°  | 125°  | 135°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8  | 277.8 | 277.8 | 277.8 |
| 2.5°  | 277.2  | 277.0  | 277.0  | 276.6  | 276.6  | 276.4  | 276.0  | 275.6  | 273.8 | 271.6 | 270.2 |
| 5°    | 281.4  | 281.0  | 280.8  | 280.4  | 279.8  | 279.8  | 279.2  | 278.4  | 275.0 | 271.4 | 269.2 |
| 7.5°  | 290.0  | 289.8  | 289.2  | 288.4  | 287.6  | 286.8  | 286.4  | 286.0  | 280.8 | 277.4 | 275.8 |
| 10°   | 302.4  | 302.2  | 300.8  | 300.6  | 299.4  | 299.6  | 298.6  | 297.8  | 294.4 | 290.6 | 288.4 |
| 12.5° | 318.2  | 319.0  | 318.2  | 316.4  | 316.8  | 316.2  | 315.2  | 314.2  | 311.2 | 308.2 | 304.8 |
| 15°   | 337.8  | 336.8  | 336.0  | 337.6  | 336.2  | 336.0  | 336.6  | 336.8  | 333.2 | 330.0 | 325.2 |
| 17.5° | 362.2  | 362.2  | 361.8  | 362.2  | 361.4  | 362.0  | 361.6  | 362.0  | 360.4 | 356.0 | 349.0 |
| 20°   | 390.0  | 391.6  | 391.6  | 391.0  | 390.8  | 392.0  | 392.6  | 390.4  | 390.8 | 387.0 | 374.4 |
| 22.5° | 422.4  | 423.6  | 424.0  | 423.4  | 423.6  | 425.2  | 426.2  | 424.6  | 428.2 | 422.0 | 402.6 |
| 25°   | 455.8  | 457.6  | 456.8  | 457.0  | 458.6  | 460.4  | 462.2  | 460.6  | 467.6 | 458.0 | 432.6 |
| 27.5° | 488.8  | 490.4  | 490.0  | 491.2  | 493.8  | 496.2  | 498.2  | 497.6  | 509.2 | 496.6 | 464.2 |
| 30°   | 520.0  | 523.8  | 524.6  | 526.0  | 529.2  | 533.2  | 536.4  | 536.2  | 551.2 | 534.2 | 490.0 |
| 32.5° | 558.4  | 562.6  | 564.2  | 567.2  | 573.4  | 576.2  | 580.2  | 580.6  | 595.6 | 567.2 | 511.8 |
| 35°   | 602.8  | 607.0  | 610.4  | 612.6  | 619.6  | 623.0  | 627.0  | 628.8  | 638.8 | 598.0 | 527.0 |
| 37.5° | 637.2  | 640.8  | 647.4  | 652.0  | 658.2  | 665.0  | 669.6  | 671.8  | 677.4 | 624.4 | 534.0 |
| 40°   | 674.8  | 682.6  | 689.0  | 696.0  | 702.8  | 708.2  | 712.4  | 715.8  | 713.6 | 646.4 | 531.0 |
| 42.5° | 722.4  | 730.6  | 739.2  | 745.2  | 748.8  | 756.0  | 758.0  | 760.4  | 742.4 | 656.4 | 517.4 |
| 45°   | 772.0  | 778.6  | 785.8  | 790.2  | 795.0  | 798.6  | 799.2  | 799.4  | 763.8 | 650.6 | 492.8 |
| 47.5° | 819.8  | 825.4  | 830.4  | 832.8  | 835.2  | 835.4  | 834.4  | 832.8  | 775.2 | 631.0 | 463.2 |
| 50°   | 872.2  | 875.6  | 877.8  | 878.0  | 880.2  | 876.0  | 873.2  | 865.8  | 774.0 | 601.0 | 432.0 |
| 52.5° | 947.6  | 946.8  | 944.0  | 943.8  | 936.8  | 928.8  | 923.6  | 913.0  | 765.8 | 568.6 | 396.0 |
| 55°   | 1120.8 | 1113.2 | 1122.0 | 1099.6 | 1081.0 | 1068.6 | 1039.2 | 1017.8 | 774.0 | 538.4 | 354.6 |
| 57.5° | 1537.0 | 1511.0 | 1513.8 | 1477.6 | 1438.0 | 1363.8 | 1320.0 | 1260.8 | 838.4 | 521.6 | 302.4 |
| 60°   | 1976.0 | 1933.2 | 1892.8 | 1828.6 | 1744.4 | 1650.2 | 1565.4 | 1472.8 | 902.4 | 501.0 | 246.8 |
| 62.5° | 2157.2 | 2102.0 | 2031.8 | 1941.2 | 1833.0 | 1716.2 | 1599.0 | 1493.4 | 867.2 | 439.0 | 177.8 |
| 65°   | 2098.8 | 2032.8 | 1958.0 | 1839.8 | 1717.0 | 1581.2 | 1452.8 | 1341.2 | 722.2 | 321.0 | 107.4 |
| 67.5° | 1891.4 | 1834.6 | 1742.4 | 1630.8 | 1478.8 | 1342.6 | 1215.6 | 1112.4 | 532.4 | 198.4 | 61.6  |
| 70°   | 1592.6 | 1514.0 | 1435.2 | 1328.0 | 1167.8 | 1039.4 | 921.2  | 830.0  | 337.8 | 98.0  | 45.4  |
| 72.5° | 1099.2 | 1037.0 | 974.0  | 878.0  | 758.4  | 670.0  | 568.4  | 493.4  | 176.8 | 52.8  | 41.8  |
| 75°   | 428.2  | 421.4  | 414.2  | 370.6  | 330.0  | 264.4  | 232.2  | 209.4  | 73.6  | 45.8  | 41.2  |
| 77.5° | 94.0   | 99.6   | 102.8  | 97.4   | 92.8   | 82.8   | 79.2   | 70.8   | 49.2  | 47.0  | 40.8  |
| 80°   | 51.8   | 51.8   | 51.8   | 52.4   | 51.4   | 51.4   | 50.8   | 49.8   | 46.0  | 47.0  | 40.0  |
| 82.5° | 42.4   | 43.0   | 43.8   | 44.0   | 43.8   | 44.0   | 43.6   | 43.4   | 45.0  | 47.2  | 38.0  |
| 85°   | 32.4   | 34.4   | 35.6   | 37.2   | 38.8   | 39.8   | 40.2   | 40.4   | 41.4  | 44.8  | 33.2  |
| 87.5° | 23.0   | 24.6   | 27.2   | 27.6   | 29.4   | 31.6   | 32.4   | 33.6   | 33.0  | 34.0  | 15.6  |
| 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):**

|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 277.8 | 277.8 | 277.8 | 277.8 | 277.8 |
| 2.5°  | 269.0 | 267.4 | 266.8 | 266.6 | 266.2 |
| 5°    | 267.4 | 266.4 | 265.6 | 265.0 | 265.4 |
| 7.5°  | 274.6 | 274.0 | 272.6 | 272.2 | 272.8 |
| 10°   | 287.4 | 286.0 | 284.0 | 284.2 | 284.0 |
| 12.5° | 303.4 | 299.6 | 296.4 | 295.0 | 294.0 |
| 15°   | 319.8 | 312.4 | 305.8 | 302.8 | 301.6 |
| 17.5° | 338.0 | 325.4 | 315.2 | 309.8 | 308.8 |
| 20°   | 357.2 | 339.8 | 326.6 | 320.2 | 319.2 |
| 22.5° | 379.4 | 355.4 | 338.6 | 329.8 | 328.4 |
| 25°   | 401.0 | 369.4 | 347.0 | 336.2 | 334.4 |
| 27.5° | 420.6 | 380.0 | 352.0 | 339.2 | 337.4 |
| 30°   | 437.0 | 388.4 | 356.2 | 341.6 | 339.6 |
| 32.5° | 447.8 | 393.0 | 357.6 | 341.8 | 339.4 |
| 35°   | 451.2 | 390.0 | 351.6 | 333.4 | 331.4 |
| 37.5° | 444.0 | 377.8 | 335.6 | 315.0 | 313.4 |
| 40°   | 427.6 | 355.2 | 310.4 | 289.0 | 287.0 |
| 42.5° | 402.0 | 326.6 | 281.2 | 258.6 | 256.8 |
| 45°   | 373.6 | 296.0 | 250.2 | 227.6 | 225.8 |
| 47.5° | 342.6 | 263.6 | 217.6 | 196.8 | 194.0 |
| 50°   | 308.6 | 228.4 | 184.4 | 164.0 | 161.4 |
| 52.5° | 268.8 | 190.0 | 149.2 | 130.8 | 129.2 |
| 55°   | 222.2 | 151.4 | 118.8 | 105.4 | 103.8 |
| 57.5° | 172.8 | 115.2 | 94.4  | 87.8  | 85.2  |
| 60°   | 125.4 | 87.6  | 75.2  | 72.0  | 70.6  |
| 62.5° | 85.2  | 65.4  | 60.6  | 59.6  | 58.6  |
| 65°   | 57.8  | 51.2  | 49.8  | 50.0  | 49.4  |
| 67.5° | 45.6  | 43.0  | 42.2  | 42.6  | 42.4  |
| 70°   | 40.0  | 38.0  | 37.8  | 38.2  | 38.0  |
| 72.5° | 37.8  | 35.2  | 35.6  | 36.2  | 36.0  |
| 75°   | 36.8  | 34.0  | 34.8  | 35.2  | 34.2  |
| 77.5° | 35.8  | 32.2  | 34.6  | 35.4  | 33.4  |
| 80°   | 34.4  | 30.6  | 36.2  | 35.8  | 32.0  |
| 82.5° | 31.4  | 27.0  | 35.4  | 32.4  | 28.8  |
| 85°   | 25.6  | 20.2  | 39.8  | 28.6  | 21.0  |
| 87.5° | 16.4  | 12.2  | 27.6  | 21.8  | 14.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)