

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209480

Luminaire Tested: UPW-SA2-130-727-U-SLR-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-947-2)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-130-727-U-SLR-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATING  
RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8561 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

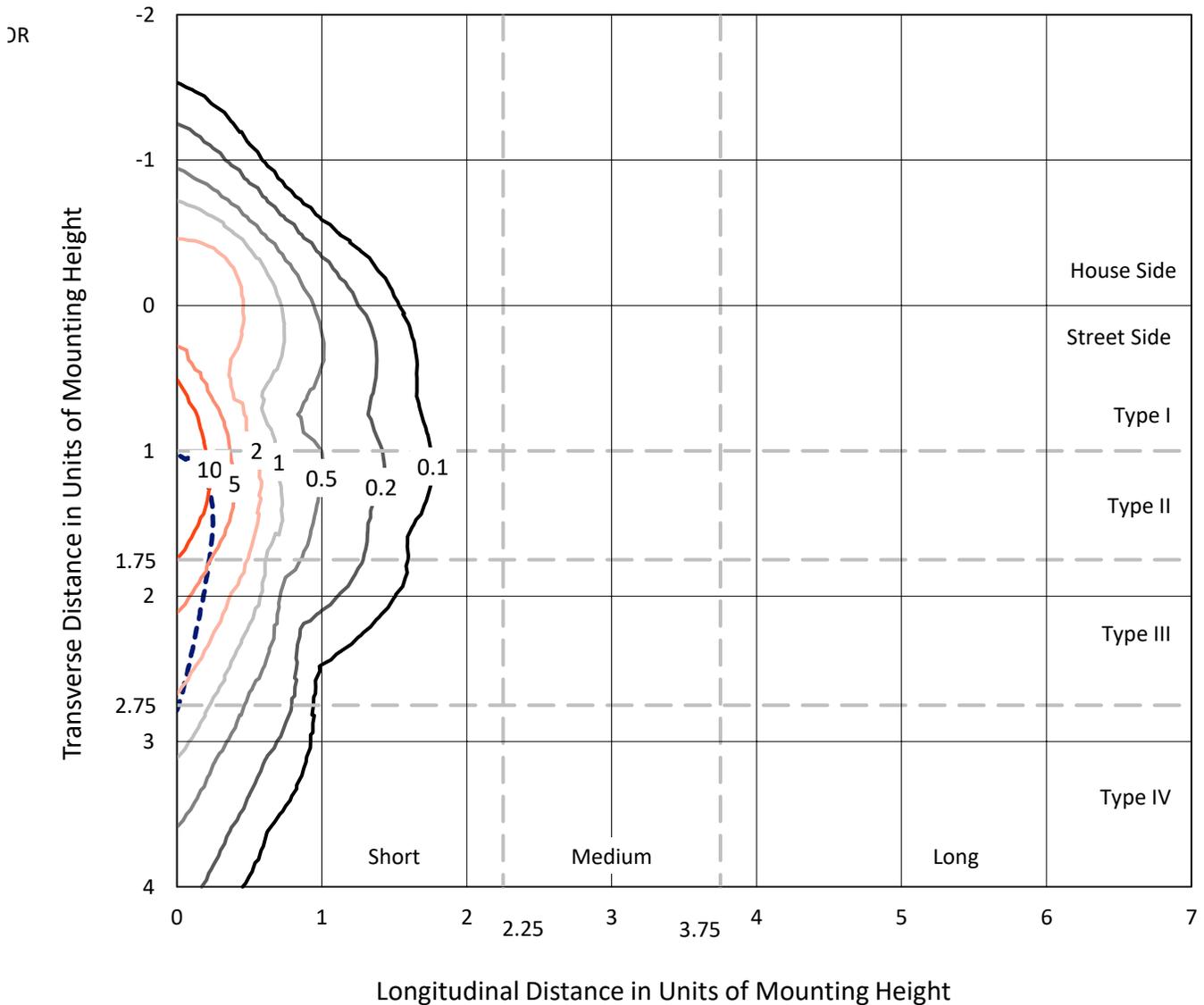
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

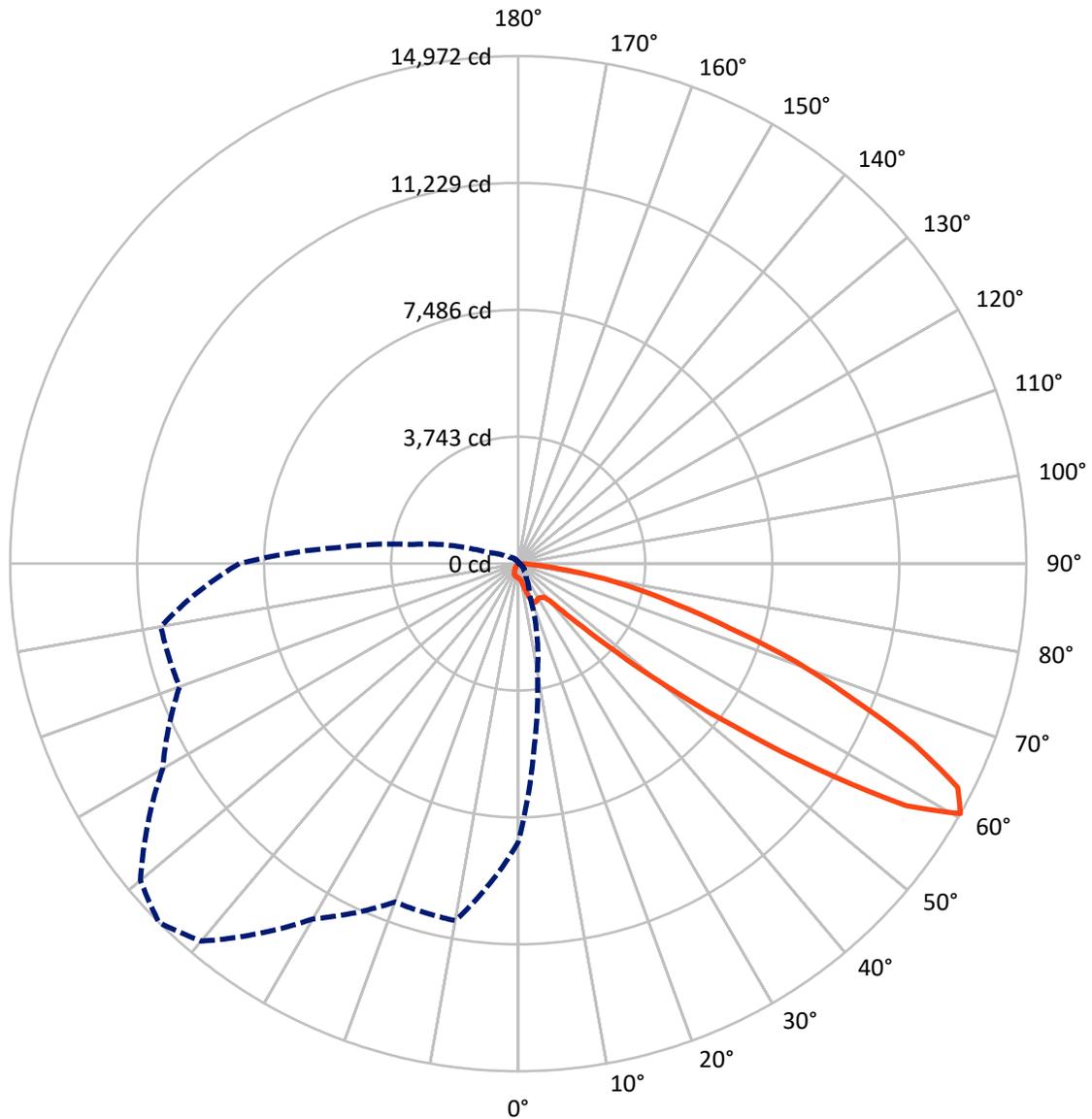
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 986.3    | 0.0    | 986.3  |
|                    | % Fixture | 11.5     | 0.0    | 11.5   |
| <b>Street Side</b> | Lumens    | 7574.7   | 0.0    | 7574.7 |
|                    | % Fixture | 88.5     | 0.0    | 88.5   |
| <b>Total</b>       | Lumens    | 8561.0   | 0.0    | 8561.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.9   | 0.5       |
| 10°-20°   | 132.1  | 1.5       |
| 20°-30°   | 285.3  | 3.3       |
| 30°-40°   | 480.6  | 5.6       |
| 40°-50°   | 970.6  | 11.3      |
| 50°-60°   | 2496.5 | 29.2      |
| 60°-70°   | 2714.2 | 31.7      |
| 70°-80°   | 1278.6 | 14.9      |
| 80°-90°   | 164.1  | 1.9       |
| 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°    | 8561.0 | 100.0     |
| 0°-180°   | 8561.0 | 100.0     |

**Coefficient of Utilization**



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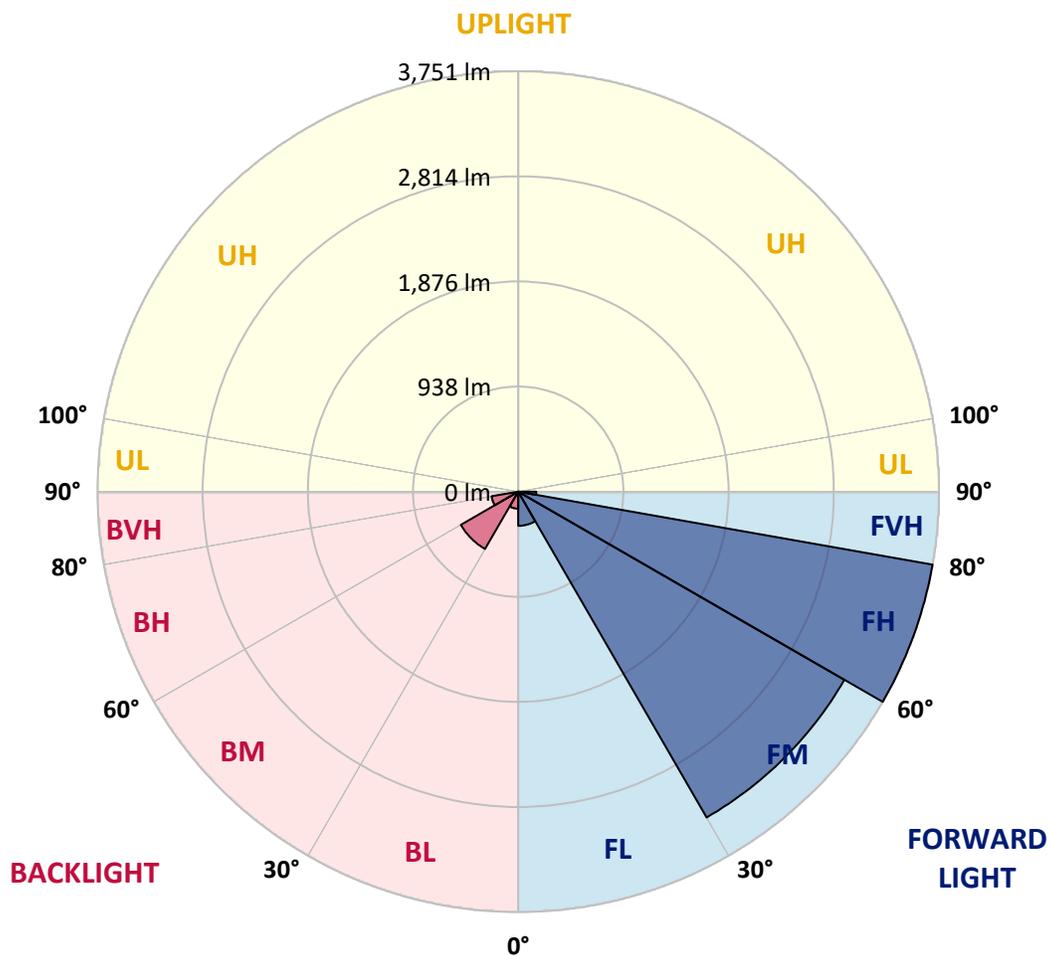
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 304.7  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 3357.3 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 3751.5 | 43.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 161.3  | 1.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 151.6  | 1.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 590.4  | 6.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 241.4  | 2.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.9    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 425.8  | 425.8  | 425.8  | 425.8  | 425.8  | 425.8  | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 |
| 2.5°  | 428.7  | 430.1  | 429.0  | 427.2  | 425.5  | 424.6  | 424.0 | 423.5 | 422.9 | 421.4 | 420.8 |
| 5°    | 427.2  | 421.7  | 417.3  | 414.4  | 411.5  | 408.9  | 406.2 | 403.3 | 400.3 | 398.2 | 394.7 |
| 7.5°  | 413.4  | 407.8  | 402.5  | 398.2  | 393.8  | 390.2  | 386.5 | 383.9 | 381.5 | 380.0 | 379.6 |
| 10°   | 414.9  | 407.9  | 398.9  | 392.1  | 385.1  | 380.7  | 376.4 | 372.3 | 368.4 | 364.7 | 365.5 |
| 12.5° | 445.4  | 428.2  | 409.5  | 395.6  | 381.9  | 374.8  | 367.7 | 363.3 | 358.9 | 356.0 | 354.3 |
| 15°   | 508.6  | 473.4  | 439.6  | 413.9  | 388.0  | 375.6  | 363.3 | 357.6 | 352.0 | 347.3 | 341.2 |
| 17.5° | 636.5  | 559.6  | 494.8  | 447.7  | 400.8  | 379.6  | 358.6 | 350.9 | 343.2 | 337.9 | 334.5 |
| 20°   | 801.4  | 683.9  | 578.4  | 501.2  | 424.0  | 390.0  | 356.0 | 345.6 | 335.0 | 329.9 | 324.6 |
| 22.5° | 995.4  | 853.0  | 704.5  | 586.8  | 469.1  | 413.6  | 358.2 | 341.8 | 325.5 | 318.2 | 309.8 |
| 25°   | 1230.1 | 1055.7 | 854.8  | 688.1  | 521.4  | 439.4  | 357.5 | 334.5 | 311.7 | 303.7 | 299.1 |
| 27.5° | 1469.2 | 1284.5 | 1047.0 | 826.3  | 605.7  | 483.9  | 362.1 | 331.0 | 299.6 | 289.9 | 285.0 |
| 30°   | 1754.7 | 1546.0 | 1261.1 | 981.2  | 701.6  | 537.4  | 373.2 | 330.4 | 287.7 | 275.4 | 270.9 |
| 32.5° | 2054.1 | 1832.9 | 1500.0 | 1154.7 | 809.4  | 597.5  | 385.8 | 332.5 | 279.0 | 265.9 | 257.5 |
| 35°   | 2327.2 | 2124.8 | 1760.9 | 1352.2 | 943.4  | 674.0  | 404.3 | 334.1 | 263.7 | 249.2 | 242.1 |
| 37.5° | 2632.4 | 2445.5 | 2054.5 | 1575.4 | 1096.4 | 759.4  | 422.6 | 335.5 | 248.5 | 232.5 | 227.9 |
| 40°   | 2955.0 | 2797.3 | 2366.5 | 1806.6 | 1246.8 | 843.4  | 440.0 | 338.0 | 236.1 | 218.7 | 213.0 |
| 42.5° | 3347.4 | 3171.7 | 2679.9 | 2030.9 | 1382.0 | 918.7  | 455.6 | 342.4 | 229.3 | 202.0 | 199.2 |
| 45°   | 4056.5 | 3710.5 | 3058.6 | 2277.3 | 1496.0 | 982.6  | 469.4 | 350.8 | 232.2 | 187.5 | 182.5 |
| 47.5° | 5091.2 | 4513.5 | 3544.0 | 2553.1 | 1562.2 | 1021.6 | 481.0 | 363.4 | 245.9 | 178.0 | 163.6 |
| 50°   | 6462.2 | 5457.7 | 4050.0 | 2817.5 | 1585.1 | 1038.9 | 492.6 | 382.3 | 272.0 | 187.5 | 158.4 |
| 52.5° | 7700.3 | 6134.5 | 4330.4 | 2931.2 | 1531.9 | 1010.2 | 488.6 | 394.1 | 299.6 | 219.4 | 167.3 |
| 55°   | 8489.4 | 6391.8 | 4332.2 | 2875.2 | 1418.3 | 943.3  | 468.2 | 395.6 | 322.9 | 263.7 | 189.1 |
| 57.5° | 8764.0 | 6067.7 | 3932.0 | 2589.7 | 1247.5 | 850.0  | 452.2 | 382.9 | 313.6 | 281.2 | 206.6 |
| 60°   | 8216.2 | 5398.1 | 3249.3 | 2097.6 | 946.0  | 705.1  | 464.3 | 371.4 | 278.7 | 252.9 | 202.6 |
| 62.5° | 7311.6 | 4598.0 | 2626.2 | 1663.9 | 701.6  | 561.5  | 421.4 | 330.7 | 240.1 | 200.5 | 180.9 |
| 65°   | 6252.2 | 3849.3 | 2119.9 | 1307.0 | 494.1  | 428.4  | 362.6 | 294.7 | 226.7 | 157.7 | 149.4 |
| 67.5° | 5357.1 | 3094.7 | 1632.2 | 970.9  | 309.5  | 280.3  | 251.1 | 221.6 | 192.1 | 131.5 | 116.5 |
| 70°   | 4420.5 | 2396.7 | 1223.6 | 720.5  | 217.2  | 200.2  | 183.1 | 168.0 | 152.9 | 111.2 | 90.4  |
| 72.5° | 3369.2 | 1653.3 | 807.2  | 479.0  | 150.8  | 138.6  | 126.4 | 118.6 | 110.7 | 91.5  | 70.0  |
| 75°   | 2347.6 | 1055.9 | 497.0  | 301.0  | 104.9  | 95.9   | 86.9  | 79.8  | 72.7  | 60.3  | 45.6  |
| 77.5° | 1259.2 | 553.2  | 260.8  | 163.9  | 66.8   | 59.9   | 53.0  | 47.1  | 41.0  | 37.8  | 28.3  |
| 80°   | 370.6  | 167.8  | 89.8   | 65.5   | 41.4   | 36.6   | 32.0  | 27.3  | 22.5  | 21.1  | 14.5  |
| 82.5° | 111.9  | 51.2   | 32.0   | 27.3   | 22.5   | 19.8   | 17.1  | 13.8  | 10.5  | 8.7   | 6.1   |
| 85°   | 24.7   | 12.5   | 9.9    | 9.0    | 8.4    | 7.3    | 6.1   | 4.9   | 3.6   | 2.2   | 0.9   |
| 87.5° | 3.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 |
| 2.5°  | 421.3 | 421.7 | 421.1 | 420.3 | 419.1 | 417.8 | 418.8 | 420.0 | 418.7 | 417.3 | 417.6 |
| 5°    | 394.7 | 394.5 | 395.6 | 396.7 | 396.9 | 397.0 | 398.7 | 400.3 | 400.9 | 401.4 | 401.9 |
| 7.5°  | 377.0 | 374.6 | 374.6 | 374.6 | 374.9 | 375.2 | 376.2 | 377.1 | 378.4 | 379.6 | 382.8 |
| 10°   | 363.9 | 362.1 | 361.1 | 360.1 | 359.2 | 358.6 | 361.7 | 364.7 | 365.6 | 366.5 | 370.3 |
| 12.5° | 352.1 | 349.9 | 348.6 | 347.3 | 345.9 | 344.4 | 345.9 | 347.3 | 350.1 | 352.8 | 358.1 |
| 15°   | 339.9 | 338.6 | 337.0 | 335.4 | 333.9 | 332.5 | 333.6 | 335.0 | 336.4 | 337.9 | 343.1 |
| 17.5° | 331.0 | 327.7 | 324.8 | 321.9 | 319.4 | 316.8 | 315.6 | 314.6 | 319.4 | 324.1 | 328.6 |
| 20°   | 320.1 | 315.6 | 311.7 | 307.8 | 304.6 | 301.5 | 300.8 | 300.1 | 302.1 | 304.0 | 309.8 |
| 22.5° | 305.7 | 302.0 | 297.2 | 292.4 | 288.0 | 283.7 | 282.5 | 281.2 | 282.2 | 283.4 | 286.3 |
| 25°   | 293.4 | 287.7 | 282.5 | 277.3 | 272.6 | 268.1 | 264.5 | 260.8 | 261.0 | 261.3 | 262.9 |
| 27.5° | 279.6 | 274.4 | 268.8 | 263.3 | 258.1 | 252.9 | 248.2 | 243.4 | 241.5 | 239.8 | 238.2 |
| 30°   | 266.2 | 261.6 | 255.9 | 250.2 | 244.0 | 237.6 | 232.5 | 227.4 | 222.2 | 216.8 | 213.5 |
| 32.5° | 252.3 | 247.0 | 242.0 | 236.9 | 230.8 | 224.5 | 215.4 | 206.3 | 200.8 | 195.5 | 189.1 |
| 35°   | 237.7 | 233.2 | 227.6 | 222.0 | 215.1 | 208.1 | 199.7 | 191.1 | 181.8 | 172.6 | 163.3 |
| 37.5° | 224.4 | 220.9 | 214.9 | 209.0 | 200.4 | 191.8 | 182.8 | 173.7 | 160.7 | 147.9 | 137.2 |
| 40°   | 210.6 | 208.1 | 202.3 | 196.5 | 186.6 | 176.6 | 164.2 | 151.9 | 137.9 | 123.8 | 112.2 |
| 42.5° | 196.0 | 193.0 | 187.5 | 181.9 | 172.3 | 162.8 | 148.5 | 134.4 | 119.0 | 103.5 | 91.4  |
| 45°   | 179.8 | 177.0 | 173.2 | 169.7 | 158.7 | 147.9 | 131.4 | 114.8 | 100.3 | 85.7  | 75.3  |
| 47.5° | 161.9 | 160.1 | 159.1 | 158.1 | 146.5 | 134.9 | 117.6 | 100.3 | 86.5  | 72.7  | 62.8  |
| 50°   | 152.4 | 146.5 | 146.5 | 146.5 | 134.6 | 122.8 | 105.4 | 87.9  | 75.3  | 62.5  | 53.8  |
| 52.5° | 150.0 | 132.5 | 132.2 | 131.9 | 121.5 | 111.2 | 94.2  | 77.0  | 67.0  | 57.0  | 48.7  |
| 55°   | 155.2 | 121.3 | 118.3 | 115.1 | 105.9 | 96.6  | 82.5  | 68.3  | 59.3  | 50.1  | 42.7  |
| 57.5° | 161.0 | 115.1 | 106.4 | 97.7  | 90.0  | 82.1  | 70.0  | 58.1  | 50.6  | 42.9  | 35.7  |
| 60°   | 158.4 | 114.5 | 98.8  | 83.1  | 76.1  | 69.0  | 58.9  | 48.7  | 41.3  | 33.7  | 27.6  |
| 62.5° | 148.9 | 117.0 | 95.0  | 72.9  | 65.7  | 58.4  | 48.5  | 38.5  | 32.6  | 26.4  | 21.1  |
| 65°   | 131.9 | 114.5 | 90.7  | 66.8  | 58.0  | 49.1  | 40.5  | 32.0  | 25.4  | 18.9  | 14.0  |
| 67.5° | 103.9 | 91.3  | 75.0  | 58.9  | 49.3  | 39.5  | 31.4  | 23.3  | 17.6  | 11.9  | 7.8   |
| 70°   | 79.6  | 69.0  | 60.5  | 52.0  | 41.4  | 30.8  | 21.9  | 13.1  | 8.7   | 4.4   | 2.6   |
| 72.5° | 60.5  | 50.9  | 45.6  | 40.4  | 31.4  | 22.5  | 14.2  | 5.8   | 3.8   | 1.7   | 1.2   |
| 75°   | 38.7  | 31.7  | 28.9  | 26.2  | 20.9  | 15.7  | 10.0  | 4.4   | 2.8   | 1.2   | 0.6   |
| 77.5° | 24.4  | 20.3  | 19.5  | 18.6  | 15.4  | 12.4  | 7.6   | 2.9   | 1.7   | 0.7   | 0.3   |
| 80°   | 12.9  | 11.3  | 11.3  | 11.3  | 9.3   | 7.3   | 4.4   | 1.5   | 0.7   | 0.0   | 0.0   |
| 82.5° | 5.2   | 4.4   | 4.4   | 4.4   | 3.6   | 2.9   | 1.5   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 1.2   | 1.5   | 1.3   | 1.2   | 0.7   | 0.3   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.1   | 0.3   | 0.3   | 0.3   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 |
| 2.5°  | 417.8 | 416.3 | 414.9 | 413.3 | 411.5 | 411.2 | 411.5 | 413.3 | 414.9 | 416.3 | 417.8 |
| 5°    | 402.5 | 402.8 | 403.3 | 403.4 | 403.7 | 404.0 | 403.7 | 403.4 | 403.3 | 402.8 | 402.5 |
| 7.5°  | 385.8 | 387.4 | 389.2 | 391.0 | 393.1 | 396.7 | 393.1 | 391.0 | 389.2 | 387.4 | 385.8 |
| 10°   | 373.8 | 375.8 | 377.8 | 379.4 | 381.0 | 383.6 | 381.0 | 379.4 | 377.8 | 375.8 | 373.8 |
| 12.5° | 363.3 | 367.4 | 371.3 | 372.2 | 373.2 | 373.5 | 373.2 | 372.2 | 371.3 | 367.4 | 363.3 |
| 15°   | 348.5 | 353.0 | 357.5 | 359.7 | 361.8 | 363.3 | 361.8 | 359.7 | 357.5 | 353.0 | 348.5 |
| 17.5° | 333.1 | 337.9 | 342.7 | 346.7 | 350.9 | 353.1 | 350.9 | 346.7 | 342.7 | 337.9 | 333.1 |
| 20°   | 315.6 | 321.4 | 327.3 | 329.1 | 331.0 | 329.9 | 331.0 | 329.1 | 327.3 | 321.4 | 315.6 |
| 22.5° | 289.2 | 293.5 | 297.9 | 301.1 | 304.4 | 308.1 | 304.4 | 301.1 | 297.9 | 293.5 | 289.2 |
| 25°   | 264.5 | 266.1 | 267.7 | 269.6 | 271.5 | 273.2 | 271.5 | 269.6 | 267.7 | 266.1 | 264.5 |
| 27.5° | 236.6 | 236.1 | 235.7 | 235.4 | 235.1 | 234.0 | 235.1 | 235.4 | 235.7 | 236.1 | 236.6 |
| 30°   | 210.0 | 206.3 | 202.7 | 200.0 | 197.3 | 196.2 | 197.3 | 200.0 | 202.7 | 206.3 | 210.0 |
| 32.5° | 182.8 | 176.1 | 169.7 | 165.4 | 161.0 | 158.4 | 161.0 | 165.4 | 169.7 | 176.1 | 182.8 |
| 35°   | 154.0 | 145.3 | 136.6 | 131.7 | 126.7 | 125.0 | 126.7 | 131.7 | 136.6 | 145.3 | 154.0 |
| 37.5° | 126.4 | 117.6 | 108.7 | 103.5 | 98.5  | 95.9  | 98.5  | 103.5 | 108.7 | 117.6 | 126.4 |
| 40°   | 100.6 | 92.1  | 83.6  | 79.2  | 74.8  | 72.7  | 74.8  | 79.2  | 83.6  | 92.1  | 100.6 |
| 42.5° | 79.2  | 71.9  | 64.7  | 60.7  | 56.7  | 53.8  | 56.7  | 60.7  | 64.7  | 71.9  | 79.2  |
| 45°   | 64.7  | 57.8  | 50.9  | 47.8  | 44.8  | 43.6  | 44.8  | 47.8  | 50.9  | 57.8  | 64.7  |
| 47.5° | 53.0  | 46.6  | 40.4  | 37.5  | 34.6  | 33.4  | 34.6  | 37.5  | 40.4  | 46.6  | 53.0  |
| 50°   | 45.0  | 39.1  | 33.1  | 30.2  | 27.3  | 26.2  | 27.3  | 30.2  | 33.1  | 39.1  | 45.0  |
| 52.5° | 40.4  | 34.0  | 27.6  | 24.7  | 21.8  | 20.3  | 21.8  | 24.7  | 27.6  | 34.0  | 40.4  |
| 55°   | 35.2  | 28.5  | 21.8  | 18.7  | 15.7  | 14.5  | 15.7  | 18.7  | 21.8  | 28.5  | 35.2  |
| 57.5° | 28.8  | 22.4  | 16.0  | 13.4  | 10.9  | 10.2  | 10.9  | 13.4  | 16.0  | 22.4  | 28.8  |
| 60°   | 21.5  | 15.8  | 10.2  | 7.6   | 5.1   | 4.4   | 5.1   | 7.6   | 10.2  | 15.8  | 21.5  |
| 62.5° | 15.7  | 10.3  | 5.1   | 2.8   | 0.3   | 0.0   | 0.3   | 2.8   | 5.1   | 10.3  | 15.7  |
| 65°   | 9.0   | 5.5   | 1.7   | 0.9   | 0.0   | 0.0   | 0.0   | 0.9   | 1.7   | 5.5   | 9.0   |
| 67.5° | 3.6   | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.7   | 3.6   |
| 70°   | 0.7   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.7   |
| 72.5° | 0.3   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.3   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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):**

|       | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 |
| 2.5°  | 417.6 | 417.3 | 418.7 | 420.0 | 418.8 | 417.8 | 419.1 | 420.3 | 421.1 | 421.7 | 421.3 |
| 5°    | 401.9 | 401.4 | 400.9 | 400.3 | 398.7 | 397.0 | 396.9 | 396.7 | 395.6 | 394.5 | 394.7 |
| 7.5°  | 382.8 | 379.6 | 378.4 | 377.1 | 376.2 | 375.2 | 374.9 | 374.6 | 374.6 | 374.6 | 377.0 |
| 10°   | 370.3 | 366.5 | 365.6 | 364.7 | 361.7 | 358.6 | 359.2 | 360.1 | 361.1 | 362.1 | 363.9 |
| 12.5° | 358.1 | 352.8 | 350.1 | 347.3 | 345.9 | 344.4 | 345.9 | 347.3 | 348.6 | 349.9 | 352.1 |
| 15°   | 343.1 | 337.9 | 336.4 | 335.0 | 333.6 | 332.5 | 333.9 | 335.4 | 337.0 | 338.6 | 339.9 |
| 17.5° | 328.6 | 324.1 | 319.4 | 314.6 | 315.6 | 316.8 | 319.4 | 321.9 | 324.8 | 327.7 | 331.0 |
| 20°   | 309.8 | 304.0 | 302.1 | 300.1 | 300.8 | 301.5 | 304.6 | 307.8 | 311.7 | 315.6 | 320.1 |
| 22.5° | 286.3 | 283.4 | 282.2 | 281.2 | 282.5 | 283.7 | 288.0 | 292.4 | 297.2 | 302.0 | 305.7 |
| 25°   | 262.9 | 261.3 | 261.0 | 260.8 | 264.5 | 268.1 | 272.6 | 277.3 | 282.5 | 287.7 | 293.4 |
| 27.5° | 238.2 | 239.8 | 241.5 | 243.4 | 248.2 | 252.9 | 258.1 | 263.3 | 268.8 | 274.4 | 279.6 |
| 30°   | 213.5 | 216.8 | 222.2 | 227.4 | 232.5 | 237.6 | 244.0 | 250.2 | 255.9 | 261.6 | 266.2 |
| 32.5° | 189.1 | 195.5 | 200.8 | 206.3 | 215.4 | 224.5 | 230.8 | 236.9 | 242.0 | 247.0 | 252.3 |
| 35°   | 163.3 | 172.6 | 181.8 | 191.1 | 199.7 | 208.1 | 215.1 | 222.0 | 227.6 | 233.2 | 237.7 |
| 37.5° | 137.2 | 147.9 | 160.7 | 173.7 | 182.8 | 191.8 | 200.4 | 209.0 | 214.9 | 220.9 | 224.4 |
| 40°   | 112.2 | 123.8 | 137.9 | 151.9 | 164.2 | 176.6 | 186.6 | 196.5 | 202.3 | 208.1 | 210.6 |
| 42.5° | 91.4  | 103.5 | 119.0 | 134.4 | 148.5 | 162.8 | 172.3 | 181.9 | 187.5 | 193.0 | 196.0 |
| 45°   | 75.3  | 85.7  | 100.3 | 114.8 | 131.4 | 147.9 | 158.7 | 169.7 | 173.2 | 177.0 | 179.8 |
| 47.5° | 62.8  | 72.7  | 86.5  | 100.3 | 117.6 | 134.9 | 146.5 | 158.1 | 159.1 | 160.1 | 161.9 |
| 50°   | 53.8  | 62.5  | 75.3  | 87.9  | 105.4 | 122.8 | 134.6 | 146.5 | 146.5 | 146.5 | 152.4 |
| 52.5° | 48.7  | 57.0  | 67.0  | 77.0  | 94.2  | 111.2 | 121.5 | 131.9 | 132.2 | 132.5 | 150.0 |
| 55°   | 42.7  | 50.1  | 59.3  | 68.3  | 82.5  | 96.6  | 105.9 | 115.1 | 118.3 | 121.3 | 155.2 |
| 57.5° | 35.7  | 42.9  | 50.6  | 58.1  | 70.0  | 82.1  | 90.0  | 97.7  | 106.4 | 115.1 | 161.0 |
| 60°   | 27.6  | 33.7  | 41.3  | 48.7  | 58.9  | 69.0  | 76.1  | 83.1  | 98.8  | 114.5 | 158.4 |
| 62.5° | 21.1  | 26.4  | 32.6  | 38.5  | 48.5  | 58.4  | 65.7  | 72.9  | 95.0  | 117.0 | 148.9 |
| 65°   | 14.0  | 18.9  | 25.4  | 32.0  | 40.5  | 49.1  | 58.0  | 66.8  | 90.7  | 114.5 | 131.9 |
| 67.5° | 7.8   | 11.9  | 17.6  | 23.3  | 31.4  | 39.5  | 49.3  | 58.9  | 75.0  | 91.3  | 103.9 |
| 70°   | 2.6   | 4.4   | 8.7   | 13.1  | 21.9  | 30.8  | 41.4  | 52.0  | 60.5  | 69.0  | 79.6  |
| 72.5° | 1.2   | 1.7   | 3.8   | 5.8   | 14.2  | 22.5  | 31.4  | 40.4  | 45.6  | 50.9  | 60.5  |
| 75°   | 0.6   | 1.2   | 2.8   | 4.4   | 10.0  | 15.7  | 20.9  | 26.2  | 28.9  | 31.7  | 38.7  |
| 77.5° | 0.3   | 0.7   | 1.7   | 2.9   | 7.6   | 12.4  | 15.4  | 18.6  | 19.5  | 20.3  | 24.4  |
| 80°   | 0.0   | 0.0   | 0.7   | 1.5   | 4.4   | 7.3   | 9.3   | 11.3  | 11.3  | 11.3  | 12.9  |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 1.5   | 2.9   | 3.6   | 4.4   | 4.4   | 4.4   | 5.2   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.3   | 0.7   | 1.2   | 1.3   | 1.5   | 1.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.3   | 0.3   | 0.3   | 0.1   |
| 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):**

|       | 220°  | 225°  | 230°  | 235°  | 240°  | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8  | 425.8  | 425.8  | 425.8  | 425.8  | 425.8  |
| 2.5°  | 420.8 | 421.4 | 422.9 | 423.5 | 424.0 | 424.6  | 425.5  | 427.2  | 429.0  | 430.1  | 428.7  |
| 5°    | 394.7 | 398.2 | 400.3 | 403.3 | 406.2 | 408.9  | 411.5  | 414.4  | 417.3  | 421.7  | 427.2  |
| 7.5°  | 379.6 | 380.0 | 381.5 | 383.9 | 386.5 | 390.2  | 393.8  | 398.2  | 402.5  | 407.8  | 413.4  |
| 10°   | 365.5 | 364.7 | 368.4 | 372.3 | 376.4 | 380.7  | 385.1  | 392.1  | 398.9  | 407.9  | 414.9  |
| 12.5° | 354.3 | 356.0 | 358.9 | 363.3 | 367.7 | 374.8  | 381.9  | 395.6  | 409.5  | 428.2  | 445.4  |
| 15°   | 341.2 | 347.3 | 352.0 | 357.6 | 363.3 | 375.6  | 388.0  | 413.9  | 439.6  | 473.4  | 508.6  |
| 17.5° | 334.5 | 337.9 | 343.2 | 350.9 | 358.6 | 379.6  | 400.8  | 447.7  | 494.8  | 559.6  | 636.5  |
| 20°   | 324.6 | 329.9 | 335.0 | 345.6 | 356.0 | 390.0  | 424.0  | 501.2  | 578.4  | 683.9  | 801.4  |
| 22.5° | 309.8 | 318.2 | 325.5 | 341.8 | 358.2 | 413.6  | 469.1  | 586.8  | 704.5  | 853.0  | 995.4  |
| 25°   | 299.1 | 303.7 | 311.7 | 334.5 | 357.5 | 439.4  | 521.4  | 688.1  | 854.8  | 1055.7 | 1230.1 |
| 27.5° | 285.0 | 289.9 | 299.6 | 331.0 | 362.1 | 483.9  | 605.7  | 826.3  | 1047.0 | 1284.5 | 1469.2 |
| 30°   | 270.9 | 275.4 | 287.7 | 330.4 | 373.2 | 537.4  | 701.6  | 981.2  | 1261.1 | 1546.0 | 1754.7 |
| 32.5° | 257.5 | 265.9 | 279.0 | 332.5 | 385.8 | 597.5  | 809.4  | 1154.7 | 1500.0 | 1832.9 | 2054.1 |
| 35°   | 242.1 | 249.2 | 263.7 | 334.1 | 404.3 | 674.0  | 943.4  | 1352.2 | 1760.9 | 2124.8 | 2327.2 |
| 37.5° | 227.9 | 232.5 | 248.5 | 335.5 | 422.6 | 759.4  | 1096.4 | 1575.4 | 2054.5 | 2445.5 | 2632.4 |
| 40°   | 213.0 | 218.7 | 236.1 | 338.0 | 440.0 | 843.4  | 1246.8 | 1806.6 | 2366.5 | 2797.3 | 2955.0 |
| 42.5° | 199.2 | 202.0 | 229.3 | 342.4 | 455.6 | 918.7  | 1382.0 | 2030.9 | 2679.9 | 3171.7 | 3347.4 |
| 45°   | 182.5 | 187.5 | 232.2 | 350.8 | 469.4 | 982.6  | 1496.0 | 2277.3 | 3058.6 | 3710.5 | 4056.5 |
| 47.5° | 163.6 | 178.0 | 245.9 | 363.4 | 481.0 | 1021.6 | 1562.2 | 2553.1 | 3544.0 | 4513.5 | 5091.2 |
| 50°   | 158.4 | 187.5 | 272.0 | 382.3 | 492.6 | 1038.9 | 1585.1 | 2817.5 | 4050.0 | 5457.7 | 6462.2 |
| 52.5° | 167.3 | 219.4 | 299.6 | 394.1 | 488.6 | 1010.2 | 1531.9 | 2931.2 | 4330.4 | 6134.5 | 7700.3 |
| 55°   | 189.1 | 263.7 | 322.9 | 395.6 | 468.2 | 943.3  | 1418.3 | 2875.2 | 4332.2 | 6391.8 | 8489.4 |
| 57.5° | 206.6 | 281.2 | 313.6 | 382.9 | 452.2 | 850.0  | 1247.5 | 2589.7 | 3932.0 | 6067.7 | 8764.0 |
| 60°   | 202.6 | 252.9 | 278.7 | 371.4 | 464.3 | 705.1  | 946.0  | 2097.6 | 3249.3 | 5398.1 | 8216.2 |
| 62.5° | 180.9 | 200.5 | 240.1 | 330.7 | 421.4 | 561.5  | 701.6  | 1663.9 | 2626.2 | 4598.0 | 7311.6 |
| 65°   | 149.4 | 157.7 | 226.7 | 294.7 | 362.6 | 428.4  | 494.1  | 1307.0 | 2119.9 | 3849.3 | 6252.2 |
| 67.5° | 116.5 | 131.5 | 192.1 | 221.6 | 251.1 | 280.3  | 309.5  | 970.9  | 1632.2 | 3094.7 | 5357.1 |
| 70°   | 90.4  | 111.2 | 152.9 | 168.0 | 183.1 | 200.2  | 217.2  | 720.5  | 1223.6 | 2396.7 | 4420.5 |
| 72.5° | 70.0  | 91.5  | 110.7 | 118.6 | 126.4 | 138.6  | 150.8  | 479.0  | 807.2  | 1653.3 | 3369.2 |
| 75°   | 45.6  | 60.3  | 72.7  | 79.8  | 86.9  | 95.9   | 104.9  | 301.0  | 497.0  | 1055.9 | 2347.6 |
| 77.5° | 28.3  | 37.8  | 41.0  | 47.1  | 53.0  | 59.9   | 66.8   | 163.9  | 260.8  | 553.2  | 1259.2 |
| 80°   | 14.5  | 21.1  | 22.5  | 27.3  | 32.0  | 36.6   | 41.4   | 65.5   | 89.8   | 167.8  | 370.6  |
| 82.5° | 6.1   | 8.7   | 10.5  | 13.8  | 17.1  | 19.8   | 22.5   | 27.3   | 32.0   | 51.2   | 111.9  |
| 85°   | 0.9   | 2.2   | 3.6   | 4.9   | 6.1   | 7.3    | 8.4    | 9.0    | 9.9    | 12.5   | 24.7   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 3.6    |
| 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):**

|       | 275°   | 280°    | 285°    | 290°    | 295°    | 300°    | 305°    | 310°    | 315°    | 320°    | 325°    |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 425.8  | 425.8   | 425.8   | 425.8   | 425.8   | 425.8   | 425.8   | 425.8   | 425.8   | 425.8   | 425.8   |
| 2.5°  | 430.0  | 431.3   | 433.2   | 435.2   | 436.1   | 437.1   | 437.5   | 438.0   | 434.5   | 438.0   | 437.5   |
| 5°    | 430.9  | 434.5   | 438.9   | 443.2   | 445.5   | 447.9   | 449.0   | 450.2   | 453.4   | 450.2   | 449.0   |
| 7.5°  | 422.7  | 431.9   | 440.3   | 448.7   | 455.1   | 461.8   | 467.3   | 472.9   | 476.6   | 472.9   | 467.3   |
| 10°   | 431.7  | 448.7   | 465.2   | 481.7   | 494.4   | 507.2   | 515.7   | 524.3   | 529.0   | 524.3   | 515.7   |
| 12.5° | 472.9  | 500.2   | 527.8   | 555.4   | 581.4   | 607.4   | 624.7   | 642.0   | 653.9   | 642.0   | 624.7   |
| 15°   | 560.2  | 611.8   | 660.0   | 708.4   | 748.7   | 789.1   | 810.4   | 831.8   | 834.1   | 831.8   | 810.4   |
| 17.5° | 711.9  | 787.3   | 851.4   | 915.5   | 958.4   | 1001.2  | 1021.7  | 1042.2  | 1047.7  | 1042.2  | 1021.7  |
| 20°   | 896.3  | 991.1   | 1051.5  | 1112.0  | 1140.7  | 1169.5  | 1180.3  | 1191.0  | 1184.3  | 1191.0  | 1180.3  |
| 22.5° | 1096.0 | 1196.7  | 1238.1  | 1279.5  | 1276.8  | 1274.1  | 1265.1  | 1256.1  | 1241.0  | 1256.1  | 1265.1  |
| 25°   | 1313.7 | 1397.2  | 1388.5  | 1379.8  | 1344.3  | 1309.0  | 1279.1  | 1249.1  | 1235.2  | 1249.1  | 1279.1  |
| 27.5° | 1514.3 | 1559.5  | 1497.6  | 1435.7  | 1368.3  | 1300.9  | 1260.9  | 1220.8  | 1196.0  | 1220.8  | 1260.9  |
| 30°   | 1725.5 | 1696.1  | 1586.0  | 1475.7  | 1390.4  | 1304.9  | 1257.6  | 1210.2  | 1181.4  | 1210.2  | 1257.6  |
| 32.5° | 1950.9 | 1847.7  | 1690.6  | 1533.4  | 1434.1  | 1334.7  | 1279.9  | 1225.0  | 1190.1  | 1225.0  | 1279.9  |
| 35°   | 2158.1 | 1989.1  | 1790.0  | 1590.9  | 1484.0  | 1377.3  | 1314.0  | 1250.9  | 1223.6  | 1250.9  | 1314.0  |
| 37.5° | 2377.5 | 2122.8  | 1881.3  | 1639.9  | 1523.2  | 1406.7  | 1348.5  | 1290.6  | 1261.3  | 1290.6  | 1348.5  |
| 40°   | 2620.1 | 2285.1  | 2003.0  | 1720.8  | 1618.2  | 1515.7  | 1477.6  | 1439.5  | 1431.4  | 1439.5  | 1477.6  |
| 42.5° | 2936.0 | 2524.4  | 2222.8  | 1921.1  | 1872.5  | 1824.0  | 1836.9  | 1849.7  | 1902.2  | 1849.7  | 1836.9  |
| 45°   | 3553.9 | 3051.4  | 2710.7  | 2370.1  | 2388.1  | 2406.2  | 2505.1  | 2604.2  | 2662.2  | 2604.2  | 2505.1  |
| 47.5° | 4544.6 | 3998.0  | 3563.3  | 3128.7  | 3249.6  | 3370.6  | 3611.0  | 3851.5  | 3903.2  | 3851.5  | 3611.0  |
| 50°   | 5881.1 | 5300.0  | 4757.5  | 4214.9  | 4469.9  | 4725.0  | 5184.5  | 5643.8  | 5719.7  | 5643.8  | 5184.5  |
| 52.5° | 7252.2 | 6804.0  | 6169.3  | 5534.4  | 5967.4  | 6400.5  | 7074.9  | 7749.4  | 7956.1  | 7749.4  | 7074.9  |
| 55°   | 8635.9 | 8782.2  | 8115.9  | 7449.7  | 7977.7  | 8505.7  | 9394.4  | 10283.2 | 10679.3 | 10283.2 | 9394.4  |
| 57.5° | 9629.6 | 10495.1 | 10028.4 | 9561.8  | 10106.8 | 10651.7 | 11750.0 | 12848.3 | 13473.8 | 12848.3 | 11750.0 |
| 60°   | 9454.9 | 10693.6 | 10656.9 | 10620.5 | 11360.0 | 12099.4 | 13317.4 | 14535.4 | 14972.0 | 14535.4 | 13317.4 |
| 62.5° | 8333.2 | 9354.8  | 9540.3  | 9726.0  | 10767.8 | 11809.6 | 12947.1 | 14084.7 | 14531.7 | 14084.7 | 12947.1 |
| 65°   | 7166.1 | 8079.9  | 8223.5  | 8367.0  | 9479.3  | 10591.8 | 11619.2 | 12646.6 | 12798.0 | 12646.6 | 11619.2 |
| 67.5° | 6282.0 | 7207.0  | 7297.2  | 7387.6  | 8333.9  | 9280.2  | 10042.0 | 10803.7 | 10616.8 | 10803.7 | 10042.0 |
| 70°   | 5398.7 | 6376.8  | 6526.3  | 6675.8  | 7345.8  | 8015.7  | 8460.9  | 8906.2  | 8681.2  | 8906.2  | 8460.9  |
| 72.5° | 4359.8 | 5350.6  | 5488.6  | 5626.7  | 6091.8  | 6557.0  | 6777.3  | 6997.3  | 6553.8  | 6997.3  | 6777.3  |
| 75°   | 3199.0 | 4050.3  | 4231.6  | 4413.0  | 4739.1  | 5065.4  | 5154.1  | 5242.7  | 4833.2  | 5242.7  | 5154.1  |
| 77.5° | 1829.8 | 2400.6  | 2721.9  | 3043.2  | 3396.9  | 3750.6  | 3792.8  | 3834.9  | 3563.2  | 3834.9  | 3792.8  |
| 80°   | 632.1  | 893.7   | 1271.4  | 1649.1  | 2074.0  | 2499.2  | 2519.6  | 2540.1  | 2338.1  | 2540.1  | 2519.6  |
| 82.5° | 225.4  | 338.9   | 601.6   | 864.3   | 1173.3  | 1482.2  | 1453.2  | 1424.0  | 1219.2  | 1424.0  | 1453.2  |
| 85°   | 78.5   | 132.2   | 292.1   | 451.9   | 593.0   | 734.1   | 676.7   | 619.3   | 502.8   | 619.3   | 676.7   |
| 87.5° | 21.7   | 39.5    | 104.0   | 168.6   | 203.4   | 238.3   | 194.6   | 150.8   | 136.6   | 150.8   | 194.6   |
| 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):**

|       | 330°    | 335°    | 340°    | 345°    | 350°    | 355°   | 360°   |
|-------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 425.8   | 425.8   | 425.8   | 425.8   | 425.8   | 425.8  | 425.8  |
| 2.5°  | 437.1   | 436.1   | 435.2   | 433.2   | 431.3   | 430.0  | 428.7  |
| 5°    | 447.9   | 445.5   | 443.2   | 438.9   | 434.5   | 430.9  | 427.2  |
| 7.5°  | 461.8   | 455.1   | 448.7   | 440.3   | 431.9   | 422.7  | 413.4  |
| 10°   | 507.2   | 494.4   | 481.7   | 465.2   | 448.7   | 431.7  | 414.9  |
| 12.5° | 607.4   | 581.4   | 555.4   | 527.8   | 500.2   | 472.9  | 445.4  |
| 15°   | 789.1   | 748.7   | 708.4   | 660.0   | 611.8   | 560.2  | 508.6  |
| 17.5° | 1001.2  | 958.4   | 915.5   | 851.4   | 787.3   | 711.9  | 636.5  |
| 20°   | 1169.5  | 1140.7  | 1112.0  | 1051.5  | 991.1   | 896.3  | 801.4  |
| 22.5° | 1274.1  | 1276.8  | 1279.5  | 1238.1  | 1196.7  | 1096.0 | 995.4  |
| 25°   | 1309.0  | 1344.3  | 1379.8  | 1388.5  | 1397.2  | 1313.7 | 1230.1 |
| 27.5° | 1300.9  | 1368.3  | 1435.7  | 1497.6  | 1559.5  | 1514.3 | 1469.2 |
| 30°   | 1304.9  | 1390.4  | 1475.7  | 1586.0  | 1696.1  | 1725.5 | 1754.7 |
| 32.5° | 1334.7  | 1434.1  | 1533.4  | 1690.6  | 1847.7  | 1950.9 | 2054.1 |
| 35°   | 1377.3  | 1484.0  | 1590.9  | 1790.0  | 1989.1  | 2158.1 | 2327.2 |
| 37.5° | 1406.7  | 1523.2  | 1639.9  | 1881.3  | 2122.8  | 2377.5 | 2632.4 |
| 40°   | 1515.7  | 1618.2  | 1720.8  | 2003.0  | 2285.1  | 2620.1 | 2955.0 |
| 42.5° | 1824.0  | 1872.5  | 1921.1  | 2222.8  | 2524.4  | 2936.0 | 3347.4 |
| 45°   | 2406.2  | 2388.1  | 2370.1  | 2710.7  | 3051.4  | 3553.9 | 4056.5 |
| 47.5° | 3370.6  | 3249.6  | 3128.7  | 3563.3  | 3998.0  | 4544.6 | 5091.2 |
| 50°   | 4725.0  | 4469.9  | 4214.9  | 4757.5  | 5300.0  | 5881.1 | 6462.2 |
| 52.5° | 6400.5  | 5967.4  | 5534.4  | 6169.3  | 6804.0  | 7252.2 | 7700.3 |
| 55°   | 8505.7  | 7977.7  | 7449.7  | 8115.9  | 8782.2  | 8635.9 | 8489.4 |
| 57.5° | 10651.7 | 10106.8 | 9561.8  | 10028.4 | 10495.1 | 9629.6 | 8764.0 |
| 60°   | 12099.4 | 11360.0 | 10620.5 | 10656.9 | 10693.6 | 9454.9 | 8216.2 |
| 62.5° | 11809.6 | 10767.8 | 9726.0  | 9540.3  | 9354.8  | 8333.2 | 7311.6 |
| 65°   | 10591.8 | 9479.3  | 8367.0  | 8223.5  | 8079.9  | 7166.1 | 6252.2 |
| 67.5° | 9280.2  | 8333.9  | 7387.6  | 7297.2  | 7207.0  | 6282.0 | 5357.1 |
| 70°   | 8015.7  | 7345.8  | 6675.8  | 6526.3  | 6376.8  | 5398.7 | 4420.5 |
| 72.5° | 6557.0  | 6091.8  | 5626.7  | 5488.6  | 5350.6  | 4359.8 | 3369.2 |
| 75°   | 5065.4  | 4739.1  | 4413.0  | 4231.6  | 4050.3  | 3199.0 | 2347.6 |
| 77.5° | 3750.6  | 3396.9  | 3043.2  | 2721.9  | 2400.6  | 1829.8 | 1259.2 |
| 80°   | 2499.2  | 2074.0  | 1649.1  | 1271.4  | 893.7   | 632.1  | 370.6  |
| 82.5° | 1482.2  | 1173.3  | 864.3   | 601.6   | 338.9   | 225.4  | 111.9  |
| 85°   | 734.1   | 593.0   | 451.9   | 292.1   | 132.2   | 78.5   | 24.7   |
| 87.5° | 238.3   | 203.4   | 168.6   | 104.0   | 39.5    | 21.7   | 3.6    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    |

(END OF REPORT)