

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: P588622

Luminaire Tested: **ARC-CA6-80-760-U-33-X-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC-CA6-80-760-U-33-X-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

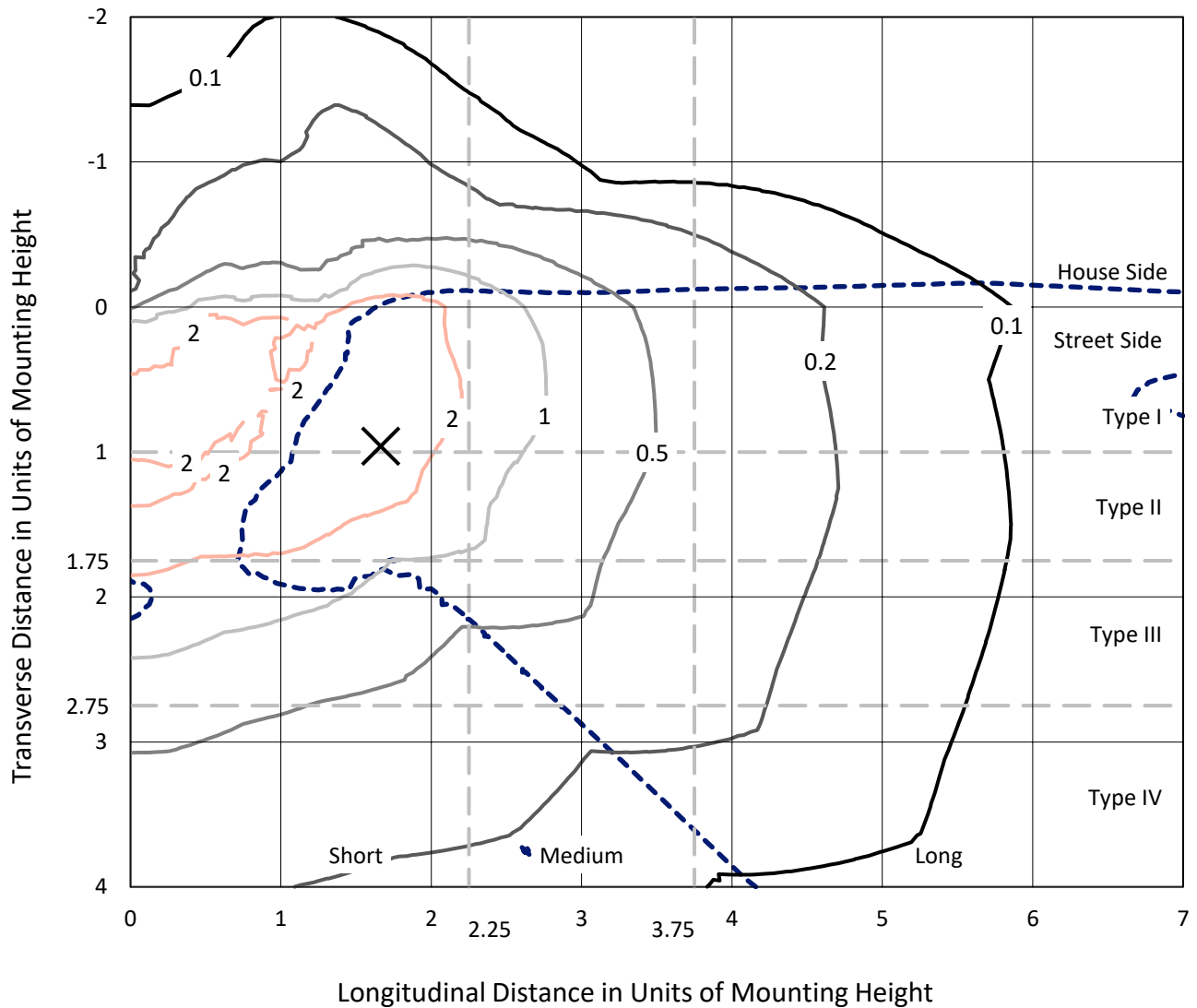
Lumens per Lamp: N/A  
Luminaire Lumens: 5682 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.08')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G5  
  
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input 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

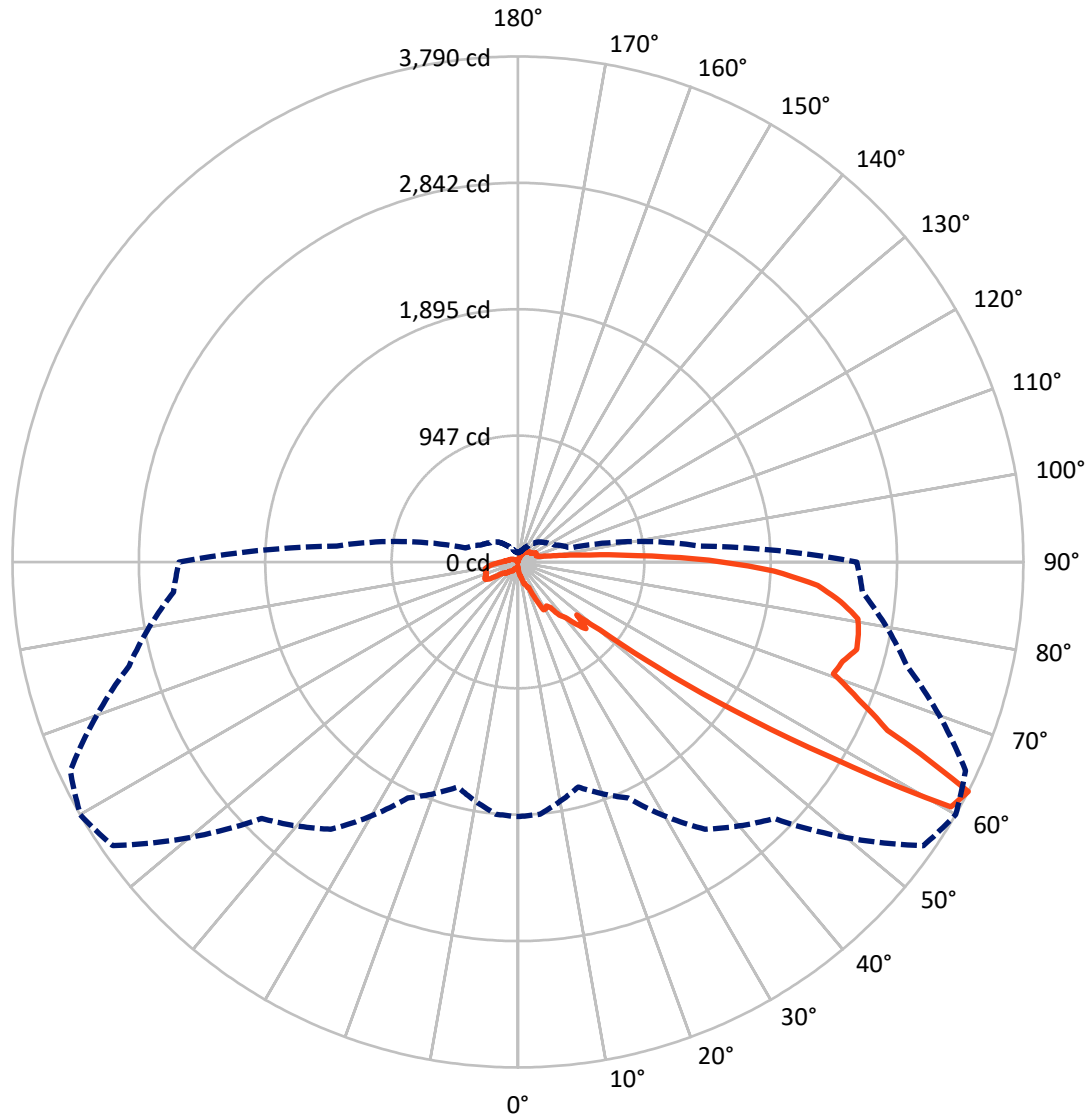
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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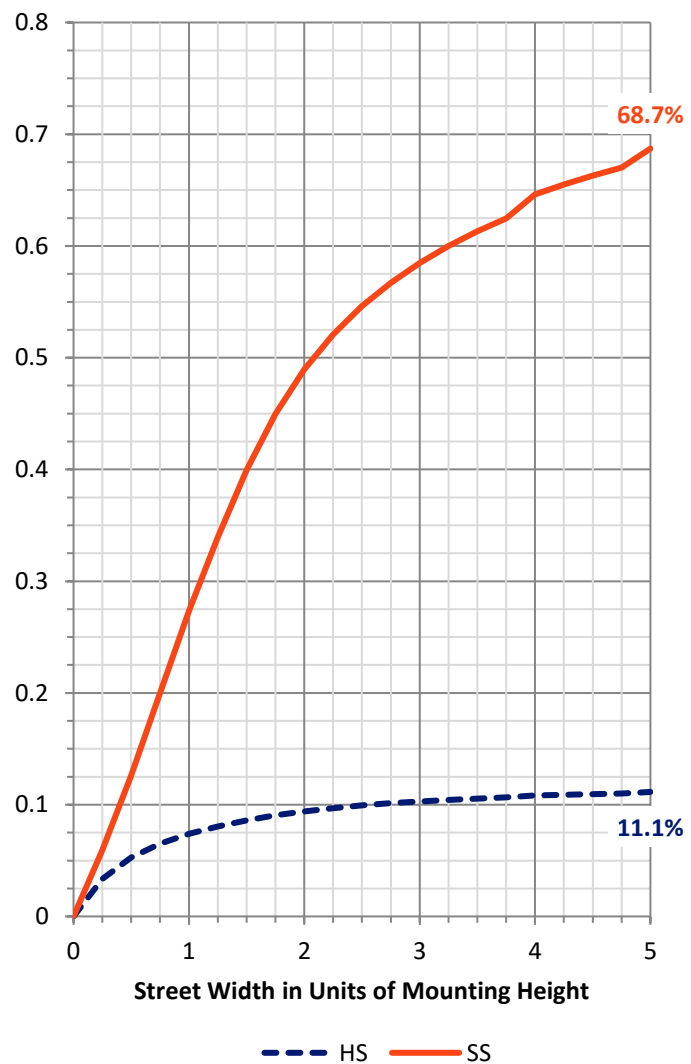
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 666.6    | 132.9  | 799.4  |
|                    | % Fixture | 11.7     | 2.3    | 14.1   |
| <b>Street Side</b> | Lumens    | 4340.2   | 542.3  | 4882.5 |
|                    | % Fixture | 76.4     | 9.5    | 85.9   |
| <b>Total</b>       | Lumens    | 5006.8   | 675.2  | 5682.0 |
|                    | % Fixture | 88.1     | 11.9   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.9    | 0.1       |
| 10°-20°   | 27.3   | 0.5       |
| 20°-30°   | 81.2   | 1.4       |
| 30°-40°   | 163.2  | 2.9       |
| 40°-50°   | 287.3  | 5.1       |
| 50°-60°   | 793.3  | 14.0      |
| 60°-70°   | 1371.5 | 24.1      |
| 70°-80°   | 1273.1 | 22.4      |
| 80°-90°   | 1003.9 | 17.7      |
| 90°-100°  | 318.5  | 5.6       |
| 100°-110° | 113.6  | 2.0       |
| 110°-120° | 93.4   | 1.6       |
| 120°-130° | 61.4   | 1.1       |
| 130°-140° | 43.7   | 0.8       |
| 140°-150° | 28.3   | 0.5       |
| 150°-160° | 13.0   | 0.2       |
| 160°-170° | 3.2    | 0.1       |
| 170°-180° | 0.1    | 0.0       |
| 0°-90°    | 5006.8 | 88.1      |
| 0°-180°   | 5682.0 | 100.0     |

**Coefficient of Utilization**



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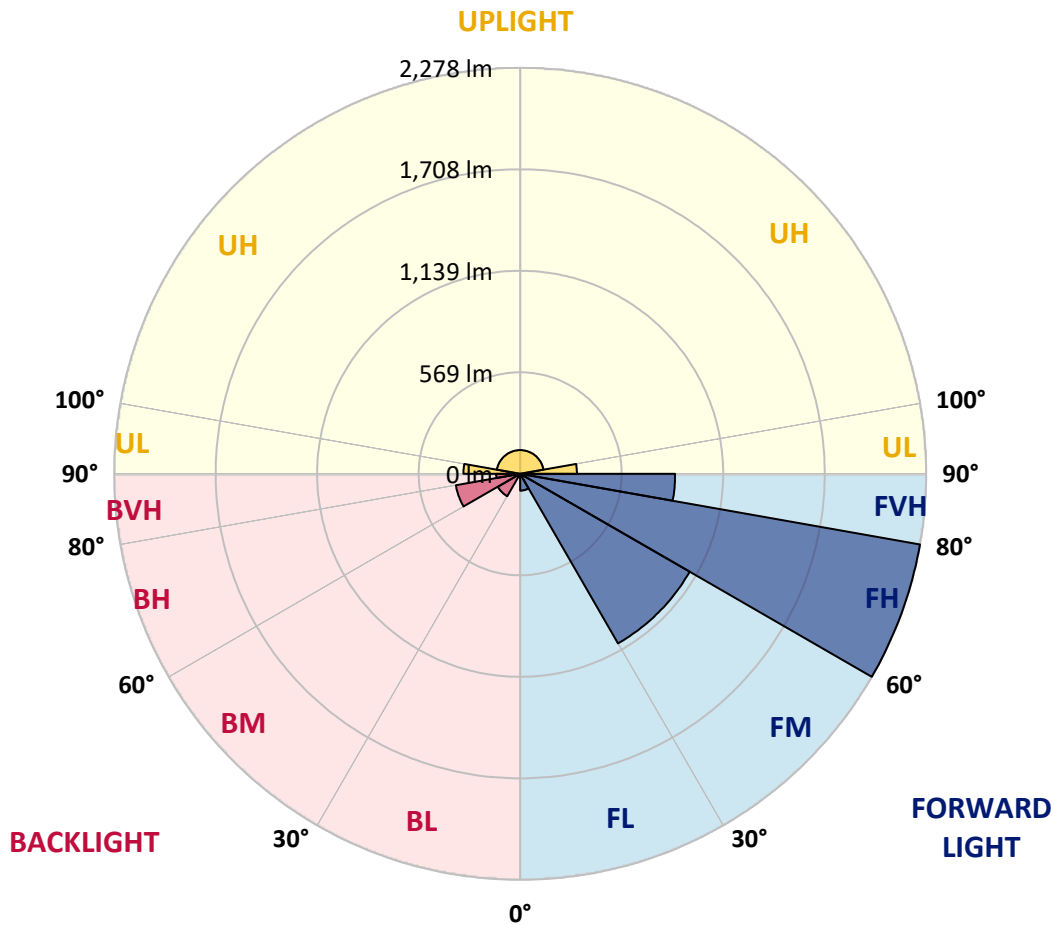
CATALOG NUMBER: ARC-CA6-80-760-U-33-X-5-X-GHSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 94.3   | 1.7       |                         |        |         |
| FM (30°-60°)   | 1098.7 | 19.3      |                         |        |         |
| FH (60°-80°)   | 2278.0 | 40.1      |                         |        | G2/5000 |
| FVH (80°-90°)  | 869.3  | 15.3      |                         |        | G5      |
| BL (0°-30°)    | 20.2   | 0.4       | B0/110                  |        |         |
| BM (30°-60°)   | 145.1  | 2.6       | B0/220                  |        |         |
| BH (60°-80°)   | 366.6  | 6.5       | B1/500                  |        | G1/500  |
| BVH (80°-90°)  | 134.6  | 2.4       |                         |        | G2/225  |
| UL (90°-100°)  | 318.5  | 5.6       |                         | U3/500 |         |
| UH (100°-180°) | 132.9  | 2.3       |                         | U3/500 |         |

**BUG Rating: B1-U3-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   | 45.5   |
| 2.5°   | 67.3   | 65.6   | 66.5   | 66.5   | 67.3   | 63.8   | 60.3   | 57.7   | 55.1   | 51.6   | 47.2   |
| 5°     | 96.2   | 94.4   | 91.8   | 90.9   | 89.2   | 85.7   | 80.4   | 78.7   | 73.5   | 66.5   | 57.7   |
| 7.5°   | 117.2  | 116.3  | 115.4  | 112.8  | 111.1  | 105.8  | 99.7   | 97.1   | 90.9   | 81.3   | 70.8   |
| 10°    | 132.9  | 132.9  | 133.8  | 129.4  | 121.5  | 117.2  | 111.9  | 110.2  | 105.8  | 92.7   | 79.6   |
| 12.5°  | 146.0  | 144.3  | 137.3  | 133.8  | 130.3  | 131.2  | 132.0  | 131.2  | 129.4  | 107.6  | 89.2   |
| 15°    | 158.3  | 156.5  | 151.3  | 146.9  | 144.3  | 153.0  | 172.3  | 170.5  | 169.6  | 135.5  | 104.1  |
| 17.5°  | 167.0  | 167.0  | 172.3  | 175.8  | 180.1  | 167.0  | 163.5  | 168.8  | 174.9  | 149.5  | 118.0  |
| 20°    | 192.4  | 188.9  | 184.5  | 181.0  | 202.9  | 193.2  | 196.7  | 202.9  | 207.2  | 167.0  | 129.4  |
| 22.5°  | 181.0  | 181.9  | 201.1  | 208.1  | 197.6  | 192.4  | 204.6  | 207.2  | 208.1  | 191.5  | 134.7  |
| 25°    | 247.5  | 236.1  | 229.1  | 251.0  | 249.2  | 287.7  | 299.1  | 306.9  | 306.9  | 259.7  | 188.0  |
| 27.5°  | 341.9  | 341.9  | 371.6  | 429.3  | 419.7  | 420.6  | 407.5  | 406.6  | 423.2  | 439.0  | 285.9  |
| 30°    | 370.8  | 380.4  | 463.4  | 492.3  | 523.8  | 484.4  | 441.6  | 408.4  | 415.4  | 500.2  | 333.2  |
| 32.5°  | 379.5  | 388.2  | 488.8  | 457.3  | 468.7  | 453.0  | 459.1  | 391.7  | 375.1  | 460.8  | 324.4  |
| 35°    | 331.4  | 343.7  | 425.8  | 385.6  | 363.8  | 411.0  | 467.8  | 419.7  | 411.9  | 378.6  | 293.8  |
| 37.5°  | 442.5  | 448.6  | 477.4  | 471.3  | 478.3  | 480.9  | 549.1  | 505.4  | 514.2  | 457.3  | 371.6  |
| 40°    | 508.0  | 501.0  | 613.9  | 641.0  | 630.5  | 620.8  | 614.7  | 547.4  | 557.9  | 529.9  | 502.8  |
| 42.5°  | 624.3  | 616.5  | 696.0  | 712.7  | 715.3  | 689.9  | 718.8  | 634.0  | 607.7  | 550.0  | 626.1  |
| 45°    | 632.2  | 636.6  | 711.8  | 668.9  | 713.5  | 759.9  | 812.3  | 714.4  | 667.2  | 570.1  | 727.5  |
| 47.5°  | 559.6  | 578.9  | 744.1  | 706.5  | 662.8  | 621.7  | 641.8  | 592.0  | 553.5  | 451.2  | 699.5  |
| 50°    | 571.0  | 578.9  | 684.7  | 640.1  | 532.5  | 659.3  | 836.0  | 800.1  | 758.1  | 559.6  | 674.2  |
| 52.5°  | 808.0  | 804.5  | 850.8  | 853.4  | 880.6  | 989.9  | 1338.8 | 1309.9 | 1316.9 | 1089.5 | 1003.8 |
| 55°    | 1107.9 | 1106.2 | 1223.3 | 1410.5 | 1565.2 | 1618.6 | 2074.2 | 1960.5 | 1908.9 | 1688.5 | 1772.5 |
| 57.5°  | 1432.3 | 1447.2 | 1498.8 | 1761.1 | 2026.1 | 2095.1 | 2808.7 | 2750.1 | 2636.4 | 2202.7 | 2426.5 |
| 60°    | 1774.2 | 1765.5 | 1689.4 | 1861.7 | 2285.8 | 2630.3 | 3700.6 | 3728.6 | 3502.1 | 2772.8 | 2648.7 |
| 62.5°  | 1908.9 | 1897.5 | 1746.2 | 1951.7 | 2445.8 | 2719.5 | 3709.3 | 3789.8 | 3703.2 | 3019.4 | 2592.7 |
| 65°    | 1886.1 | 1859.9 | 1658.8 | 1820.6 | 2064.5 | 2313.7 | 3311.5 | 3044.8 | 3186.4 | 3087.6 | 2451.0 |
| 67.5°  | 1797.0 | 1790.8 | 1603.7 | 1692.9 | 1852.0 | 1884.4 | 3024.7 | 2755.3 | 2806.1 | 3148.8 | 2493.0 |
| 70°    | 1685.0 | 1683.3 | 1541.6 | 1609.0 | 1835.4 | 1802.2 | 2799.9 | 2510.5 | 2480.8 | 2818.3 | 2503.5 |
| 72.5°  | 1688.5 | 1686.8 | 1530.3 | 1553.0 | 1796.1 | 1741.9 | 2776.3 | 2545.5 | 2491.3 | 2655.6 | 2382.8 |
| 75°    | 1717.4 | 1719.1 | 1553.0 | 1578.3 | 1851.2 | 1754.1 | 2832.3 | 2623.3 | 2568.2 | 2639.9 | 2286.6 |
| 77.5°  | 1689.4 | 1703.4 | 1539.9 | 1596.7 | 1886.1 | 1752.4 | 2806.1 | 2608.4 | 2530.6 | 2510.5 | 2103.0 |
| 80°    | 1595.8 | 1615.1 | 1468.2 | 1533.8 | 1854.7 | 1776.0 | 2784.2 | 2585.7 | 2486.9 | 2376.7 | 1971.0 |
| 82.5°  | 1400.0 | 1420.1 | 1307.3 | 1367.6 | 1725.3 | 1678.9 | 2631.2 | 2438.8 | 2350.5 | 2158.1 | 1798.7 |
| 85°    | 1203.2 | 1249.6 | 1194.5 | 1203.2 | 1523.3 | 1537.3 | 2424.8 | 2255.2 | 2193.9 | 2026.1 | 1740.1 |
| 87.5°  | 993.4  | 1033.6 | 982.0  | 919.9  | 1141.1 | 1221.6 | 2005.1 | 1921.1 | 1904.5 | 1788.2 | 1510.1 |
| 90°    | 735.4  | 772.1  | 741.5  | 660.2  | 773.0  | 823.7  | 1477.8 | 1431.4 | 1467.3 | 1334.4 | 1038.0 |
| 92.5°  | 533.4  | 539.5  | 503.7  | 436.3  | 515.0  | 539.5  | 968.9  | 898.0  | 940.0  | 817.6  | 608.6  |
| 95°    | 356.8  | 371.6  | 343.7  | 314.8  | 373.4  | 376.0  | 597.2  | 544.8  | 522.0  | 469.6  | 363.8  |
| 97.5°  | 261.5  | 262.3  | 251.8  | 225.6  | 262.3  | 265.8  | 397.0  | 357.6  | 337.5  | 315.7  | 251.8  |
| 100°   | 207.2  | 207.2  | 191.5  | 174.9  | 182.8  | 189.8  | 276.3  | 249.2  | 238.7  | 229.1  | 189.8  |
| 102.5° | 181.0  | 180.1  | 167.0  | 150.4  | 149.5  | 153.0  | 209.0  | 190.6  | 182.8  | 176.6  | 149.5  |
| 105°   | 171.4  | 170.5  | 157.4  | 139.9  | 135.5  | 132.9  | 174.0  | 161.8  | 156.5  | 151.3  | 134.7  |
| 107.5° | 169.6  | 167.9  | 154.8  | 139.0  | 132.0  | 125.0  | 156.5  | 146.0  | 146.9  | 141.7  | 129.4  |
| 110°   | 171.4  | 171.4  | 160.0  | 150.4  | 139.0  | 129.4  | 157.4  | 146.0  | 149.5  | 147.8  | 134.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 167.0 | 171.4 | 167.0 | 160.9 | 148.7 | 140.8 | 164.4 | 151.3 | 155.6 | 155.6 | 139.0 |
| 115°   | 157.4 | 161.8 | 161.8 | 155.6 | 144.3 | 141.7 | 162.6 | 151.3 | 153.0 | 150.4 | 129.4 |
| 117.5° | 144.3 | 146.9 | 145.2 | 138.2 | 128.5 | 126.8 | 151.3 | 146.0 | 146.0 | 138.2 | 120.7 |
| 120°   | 134.7 | 129.4 | 122.4 | 117.2 | 111.9 | 116.3 | 136.4 | 131.2 | 126.8 | 123.3 | 110.2 |
| 122.5° | 120.7 | 114.6 | 106.7 | 104.1 | 100.6 | 106.7 | 124.2 | 119.8 | 115.4 | 113.7 | 104.1 |
| 125°   | 99.7  | 99.7  | 96.2  | 94.4  | 93.6  | 102.3 | 122.4 | 118.0 | 111.9 | 108.4 | 97.1  |
| 127.5° | 96.2  | 96.2  | 93.6  | 91.8  | 92.7  | 103.2 | 119.8 | 115.4 | 108.4 | 104.1 | 93.6  |
| 130°   | 97.1  | 95.3  | 91.8  | 89.2  | 90.1  | 102.3 | 118.9 | 113.7 | 106.7 | 103.2 | 93.6  |
| 132.5° | 91.8  | 90.1  | 87.4  | 85.7  | 84.8  | 97.1  | 112.8 | 110.2 | 104.9 | 97.1  | 86.6  |
| 135°   | 89.2  | 87.4  | 85.7  | 84.8  | 84.8  | 94.4  | 107.6 | 104.9 | 99.7  | 90.9  | 79.6  |
| 137.5° | 88.3  | 86.6  | 83.1  | 82.2  | 81.3  | 90.1  | 100.6 | 98.8  | 93.6  | 85.7  | 76.1  |
| 140°   | 83.9  | 81.3  | 78.7  | 77.8  | 77.8  | 84.8  | 95.3  | 93.6  | 88.3  | 82.2  | 73.5  |
| 142.5° | 77.8  | 76.1  | 73.5  | 73.5  | 74.3  | 81.3  | 92.7  | 91.8  | 85.7  | 78.7  | 70.8  |
| 145°   | 74.3  | 72.6  | 70.8  | 71.7  | 72.6  | 78.7  | 87.4  | 86.6  | 82.2  | 76.1  | 68.2  |
| 147.5° | 68.2  | 67.3  | 65.6  | 64.7  | 66.5  | 71.7  | 81.3  | 81.3  | 78.7  | 70.8  | 63.0  |
| 150°   | 59.5  | 58.6  | 56.8  | 56.0  | 57.7  | 63.0  | 70.8  | 70.8  | 68.2  | 60.3  | 53.3  |
| 152.5° | 49.8  | 49.0  | 49.0  | 49.8  | 51.6  | 54.2  | 61.2  | 62.1  | 59.5  | 51.6  | 45.5  |
| 155°   | 43.7  | 42.8  | 42.8  | 43.7  | 46.3  | 49.0  | 53.3  | 53.3  | 50.7  | 45.5  | 39.3  |
| 157.5° | 37.6  | 36.7  | 36.7  | 37.6  | 40.2  | 42.0  | 46.3  | 45.5  | 43.7  | 39.3  | 34.1  |
| 160°   | 28.9  | 28.0  | 28.0  | 28.9  | 31.5  | 33.2  | 36.7  | 36.7  | 35.9  | 33.2  | 28.9  |
| 162.5° | 21.9  | 21.0  | 21.0  | 21.9  | 23.6  | 24.5  | 27.1  | 28.0  | 28.0  | 26.2  | 22.7  |
| 165°   | 16.6  | 15.7  | 15.7  | 15.7  | 17.5  | 18.4  | 19.2  | 19.2  | 19.2  | 18.4  | 15.7  |
| 167.5° | 10.5  | 9.6   | 9.6   | 10.5  | 11.4  | 11.4  | 12.2  | 12.2  | 11.4  | 11.4  | 9.6   |
| 170°   | 5.2   | 4.4   | 4.4   | 5.2   | 5.2   | 5.2   | 4.4   | 3.5   | 3.5   | 3.5   | 3.5   |
| 172.5° | 1.7   | 0.9   | 2.6   | 2.6   | 1.7   | 0.0   | 0.0   | 0.9   | 0.9   | 0.9   | 0.0   |
| 175°   | 1.7   | 0.9   | 2.6   | 2.6   | 1.7   | 0.0   | 0.0   | 0.9   | 0.0   | 0.9   | 0.0   |
| 177.5° | 0.9   | 0.9   | 2.6   | 2.6   | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.0   |
| 180°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |





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**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 0°     | 45.5   | 45.5   | 45.5  | 45.5  | 45.5  | 45.5  | 45.5  | 45.5  | 45.5  | 45.5 | 45.5 |
| 2.5°   | 45.5   | 44.6   | 41.1  | 35.9  | 30.6  | 25.4  | 24.5  | 25.4  | 26.2  | 27.1 | 28.0 |
| 5°     | 54.2   | 50.7   | 43.7  | 35.9  | 28.9  | 21.9  | 18.4  | 16.6  | 15.7  | 16.6 | 17.5 |
| 7.5°   | 65.6   | 61.2   | 52.5  | 42.8  | 34.1  | 27.1  | 22.7  | 18.4  | 15.7  | 15.7 | 16.6 |
| 10°    | 73.5   | 68.2   | 57.7  | 47.2  | 38.5  | 30.6  | 25.4  | 21.0  | 18.4  | 16.6 | 16.6 |
| 12.5°  | 82.2   | 75.2   | 61.2  | 49.8  | 40.2  | 33.2  | 28.0  | 23.6  | 21.0  | 19.2 | 19.2 |
| 15°    | 91.8   | 83.9   | 67.3  | 52.5  | 42.8  | 35.0  | 30.6  | 26.2  | 22.7  | 21.0 | 21.0 |
| 17.5°  | 107.6  | 94.4   | 70.8  | 55.1  | 44.6  | 36.7  | 31.5  | 27.1  | 23.6  | 21.9 | 21.9 |
| 20°    | 114.6  | 99.7   | 71.7  | 57.7  | 47.2  | 38.5  | 32.4  | 27.1  | 24.5  | 22.7 | 22.7 |
| 22.5°  | 114.6  | 98.8   | 73.5  | 59.5  | 49.8  | 40.2  | 33.2  | 28.0  | 24.5  | 22.7 | 22.7 |
| 25°    | 144.3  | 108.4  | 75.2  | 63.8  | 52.5  | 42.0  | 35.0  | 28.9  | 25.4  | 23.6 | 23.6 |
| 27.5°  | 202.0  | 141.7  | 86.6  | 68.2  | 56.0  | 44.6  | 36.7  | 30.6  | 26.2  | 24.5 | 24.5 |
| 30°    | 222.1  | 158.3  | 98.8  | 79.6  | 61.2  | 47.2  | 38.5  | 32.4  | 28.0  | 25.4 | 25.4 |
| 32.5°  | 226.5  | 155.6  | 105.8 | 87.4  | 70.0  | 51.6  | 40.2  | 34.1  | 28.9  | 26.2 | 26.2 |
| 35°    | 204.6  | 144.3  | 105.8 | 90.9  | 75.2  | 57.7  | 44.6  | 35.9  | 29.7  | 27.1 | 26.2 |
| 37.5°  | 238.7  | 155.6  | 108.4 | 91.8  | 77.8  | 62.1  | 49.8  | 38.5  | 31.5  | 28.0 | 28.0 |
| 40°    | 308.7  | 184.5  | 121.5 | 97.1  | 78.7  | 64.7  | 55.1  | 42.8  | 34.1  | 29.7 | 29.7 |
| 42.5°  | 361.1  | 208.1  | 135.5 | 110.2 | 85.7  | 68.2  | 56.8  | 46.3  | 37.6  | 32.4 | 31.5 |
| 45°    | 405.7  | 230.8  | 147.8 | 122.4 | 97.9  | 76.1  | 60.3  | 49.8  | 41.1  | 35.9 | 35.0 |
| 47.5°  | 413.6  | 242.2  | 157.4 | 134.7 | 107.6 | 83.9  | 65.6  | 53.3  | 45.5  | 39.3 | 38.5 |
| 50°    | 399.6  | 243.1  | 160.9 | 142.5 | 118.0 | 92.7  | 71.7  | 57.7  | 49.0  | 42.8 | 42.8 |
| 52.5°  | 571.0  | 303.4  | 176.6 | 146.9 | 121.5 | 99.7  | 79.6  | 63.0  | 52.5  | 47.2 | 47.2 |
| 55°    | 1030.1 | 490.6  | 228.2 | 174.0 | 130.3 | 104.9 | 86.6  | 70.8  | 57.7  | 51.6 | 51.6 |
| 57.5°  | 1664.9 | 766.0  | 301.7 | 232.6 | 167.9 | 121.5 | 94.4  | 78.7  | 64.7  | 56.0 | 56.0 |
| 60°    | 2206.2 | 1080.8 | 367.3 | 283.3 | 220.4 | 167.0 | 114.6 | 89.2  | 72.6  | 62.1 | 61.2 |
| 62.5°  | 2540.2 | 1364.1 | 405.7 | 302.6 | 251.8 | 211.6 | 153.9 | 111.9 | 82.2  | 70.8 | 69.1 |
| 65°    | 2465.9 | 1505.8 | 422.4 | 300.8 | 250.1 | 225.6 | 183.6 | 139.0 | 98.8  | 81.3 | 78.7 |
| 67.5°  | 2264.8 | 1506.6 | 419.7 | 287.7 | 237.0 | 214.2 | 182.8 | 150.4 | 114.6 | 91.8 | 88.3 |
| 70°    | 2164.2 | 1480.4 | 406.6 | 278.1 | 226.5 | 200.2 | 169.6 | 138.2 | 112.8 | 97.9 | 96.2 |
| 72.5°  | 2116.1 | 1462.9 | 398.7 | 276.3 | 224.7 | 195.0 | 160.9 | 123.3 | 101.4 | 93.6 | 95.3 |
| 75°    | 2127.5 | 1473.4 | 402.2 | 278.9 | 228.2 | 197.6 | 157.4 | 114.6 | 89.2  | 80.4 | 82.2 |
| 77.5°  | 2102.1 | 1452.4 | 407.5 | 278.1 | 226.5 | 193.2 | 146.9 | 104.9 | 81.3  | 72.6 | 71.7 |
| 80°    | 2123.1 | 1407.0 | 395.2 | 269.3 | 213.4 | 175.8 | 130.3 | 93.6  | 74.3  | 68.2 | 67.3 |
| 82.5°  | 1962.2 | 1225.1 | 351.5 | 245.7 | 193.2 | 151.3 | 109.3 | 82.2  | 70.0  | 63.0 | 63.0 |
| 85°    | 1798.7 | 993.4  | 301.7 | 216.0 | 159.1 | 118.9 | 87.4  | 71.7  | 61.2  | 56.0 | 56.0 |
| 87.5°  | 1365.0 | 711.8  | 233.5 | 177.5 | 132.9 | 102.3 | 79.6  | 69.1  | 60.3  | 56.8 | 56.0 |
| 90°    | 843.8  | 439.0  | 174.0 | 141.7 | 112.8 | 90.9  | 75.2  | 66.5  | 59.5  | 56.8 | 56.8 |
| 92.5°  | 472.2  | 280.7  | 134.7 | 116.3 | 97.1  | 81.3  | 69.1  | 60.3  | 54.2  | 51.6 | 51.6 |
| 95°    | 320.0  | 209.9  | 115.4 | 104.1 | 86.6  | 71.7  | 60.3  | 52.5  | 47.2  | 43.7 | 43.7 |
| 97.5°  | 231.7  | 165.3  | 102.3 | 93.6  | 77.8  | 63.0  | 53.3  | 45.5  | 41.1  | 39.3 | 39.3 |
| 100°   | 177.5  | 133.8  | 92.7  | 83.9  | 69.1  | 55.1  | 46.3  | 39.3  | 35.0  | 33.2 | 33.2 |
| 102.5° | 142.5  | 112.8  | 83.9  | 76.1  | 61.2  | 49.0  | 39.3  | 32.4  | 28.9  | 28.0 | 27.1 |
| 105°   | 128.5  | 104.9  | 78.7  | 70.8  | 56.0  | 44.6  | 35.0  | 28.9  | 25.4  | 23.6 | 23.6 |
| 107.5° | 125.0  | 104.9  | 77.8  | 69.1  | 53.3  | 42.0  | 31.5  | 26.2  | 22.7  | 21.0 | 21.0 |
| 110°   | 132.9  | 111.1  | 78.7  | 67.3  | 49.8  | 38.5  | 28.9  | 23.6  | 20.1  | 19.2 | 19.2 |



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|        | 90°   | 95°   | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|------|------|------|------|------|------|------|------|------|
| 112.5° | 137.3 | 111.9 | 75.2 | 63.0 | 46.3 | 35.0 | 27.1 | 21.9 | 19.2 | 17.5 | 17.5 |
| 115°   | 125.9 | 100.6 | 69.1 | 56.0 | 41.1 | 31.5 | 25.4 | 21.0 | 17.5 | 15.7 | 15.7 |
| 117.5° | 121.5 | 94.4  | 67.3 | 49.0 | 37.6 | 28.9 | 23.6 | 19.2 | 16.6 | 14.9 | 14.9 |
| 120°   | 121.5 | 91.8  | 59.5 | 42.8 | 34.1 | 26.2 | 21.9 | 17.5 | 14.9 | 14.0 | 14.0 |
| 122.5° | 117.2 | 84.8  | 52.5 | 37.6 | 29.7 | 22.7 | 19.2 | 15.7 | 14.0 | 12.2 | 12.2 |
| 125°   | 106.7 | 78.7  | 42.8 | 34.1 | 27.1 | 21.0 | 17.5 | 14.9 | 12.2 | 11.4 | 11.4 |
| 127.5° | 100.6 | 77.8  | 40.2 | 31.5 | 24.5 | 19.2 | 15.7 | 13.1 | 10.5 | 9.6  | 9.6  |
| 130°   | 99.7  | 77.8  | 37.6 | 28.0 | 21.9 | 16.6 | 14.0 | 11.4 | 9.6  | 8.7  | 8.7  |
| 132.5° | 89.2  | 70.8  | 35.9 | 26.2 | 20.1 | 15.7 | 13.1 | 10.5 | 8.7  | 7.9  | 7.9  |
| 135°   | 80.4  | 65.6  | 35.0 | 24.5 | 18.4 | 14.0 | 11.4 | 9.6  | 7.0  | 7.0  | 7.0  |
| 137.5° | 74.3  | 60.3  | 35.0 | 22.7 | 16.6 | 12.2 | 10.5 | 8.7  | 6.1  | 6.1  | 6.1  |
| 140°   | 70.0  | 56.0  | 34.1 | 21.9 | 14.9 | 11.4 | 9.6  | 7.0  | 5.2  | 5.2  | 5.2  |
| 142.5° | 65.6  | 52.5  | 31.5 | 21.0 | 14.0 | 9.6  | 8.7  | 7.0  | 5.2  | 4.4  | 4.4  |
| 145°   | 60.3  | 48.1  | 28.0 | 19.2 | 13.1 | 8.7  | 7.9  | 6.1  | 4.4  | 3.5  | 3.5  |
| 147.5° | 55.1  | 42.8  | 24.5 | 16.6 | 12.2 | 7.9  | 7.0  | 5.2  | 3.5  | 3.5  | 3.5  |
| 150°   | 47.2  | 36.7  | 21.9 | 14.9 | 10.5 | 7.0  | 6.1  | 4.4  | 3.5  | 2.6  | 2.6  |
| 152.5° | 38.5  | 31.5  | 19.2 | 13.1 | 9.6  | 6.1  | 5.2  | 3.5  | 2.6  | 1.7  | 1.7  |
| 155°   | 34.1  | 28.0  | 17.5 | 11.4 | 7.9  | 5.2  | 4.4  | 2.6  | 2.6  | 1.7  | 1.7  |
| 157.5° | 29.7  | 24.5  | 15.7 | 9.6  | 6.1  | 3.5  | 3.5  | 2.6  | 1.7  | 1.7  | 0.9  |
| 160°   | 24.5  | 21.0  | 13.1 | 7.9  | 5.2  | 2.6  | 2.6  | 1.7  | 1.7  | 0.9  | 0.9  |
| 162.5° | 19.2  | 15.7  | 9.6  | 6.1  | 3.5  | 1.7  | 1.7  | 1.7  | 1.7  | 0.9  | 0.0  |
| 165°   | 13.1  | 11.4  | 7.0  | 4.4  | 2.6  | 0.9  | 0.9  | 1.7  | 0.9  | 0.9  | 0.0  |
| 167.5° | 8.7   | 7.0   | 4.4  | 2.6  | 1.7  | 0.0  | 0.9  | 0.9  | 0.9  | 0.9  | 0.0  |
| 170°   | 3.5   | 3.5   | 2.6  | 1.7  | 0.0  | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.0  |
| 172.5° | 0.9   | 0.9   | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.0  |
| 175°   | 0.9   | 0.9   | 0.9  | 0.9  | 0.0  | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.0  |
| 177.5° | 0.9   | 0.9   | 0.9  | 0.9  | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.9  | 0.0  |
| 180°   | 0.9   | 0.9   | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |

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