

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: P192136

Luminaire Tested: **GAN-AF-08-LED-U-SLR-7050-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-SLR-7050-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41924 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

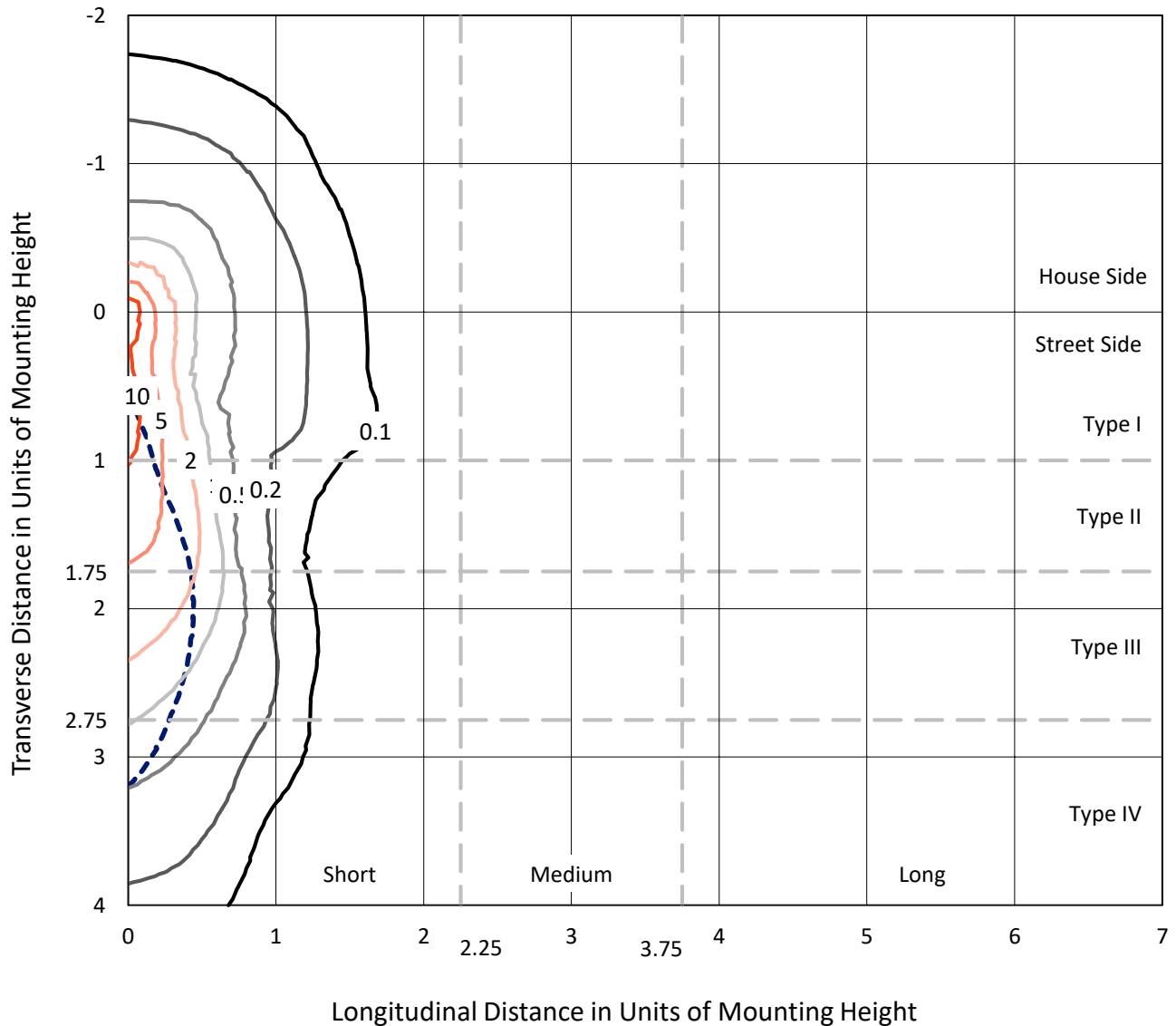
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

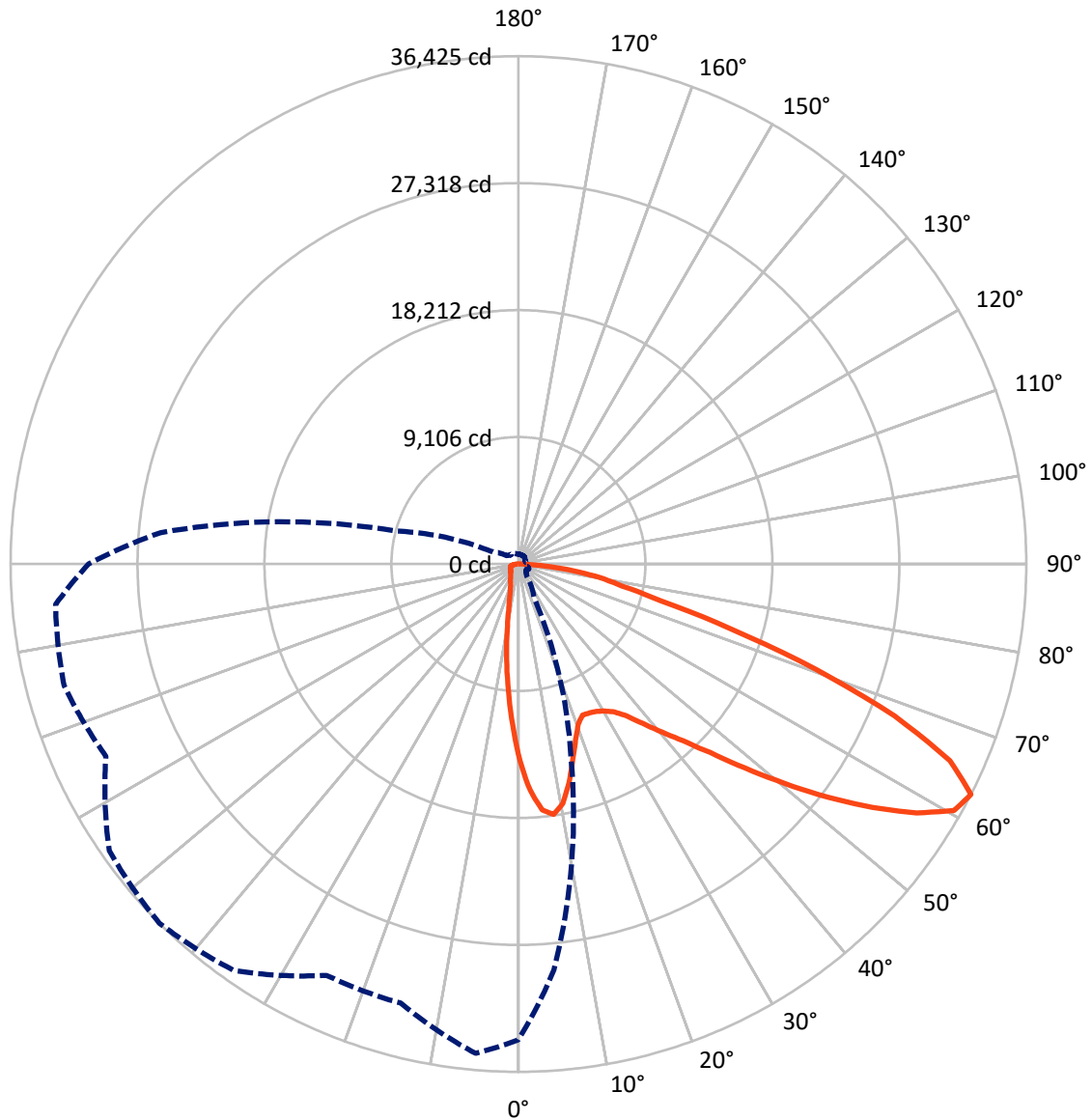
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6937.8   | 0.0    | 6937.8  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 34986.2  | 0.0    | 34986.2 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 41924.0  | 0.0    | 41924.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1031.1  | 2.5       |
| 10°-20°   | 1890.7  | 4.5       |
| 20°-30°   | 2756.7  | 6.6       |
| 30°-40°   | 4245.7  | 10.1      |
| 40°-50°   | 6248.6  | 14.9      |
| 50°-60°   | 9165.3  | 21.9      |
| 60°-70°   | 10245.5 | 24.4      |
| 70°-80°   | 5016.1  | 12.0      |
| 80°-90°   | 1324.4  | 3.2       |
| 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°    | 41924.0 | 100.0     |
| 0°-180°   | 41924.0 | 100.0     |

**Coefficient of Utilization**



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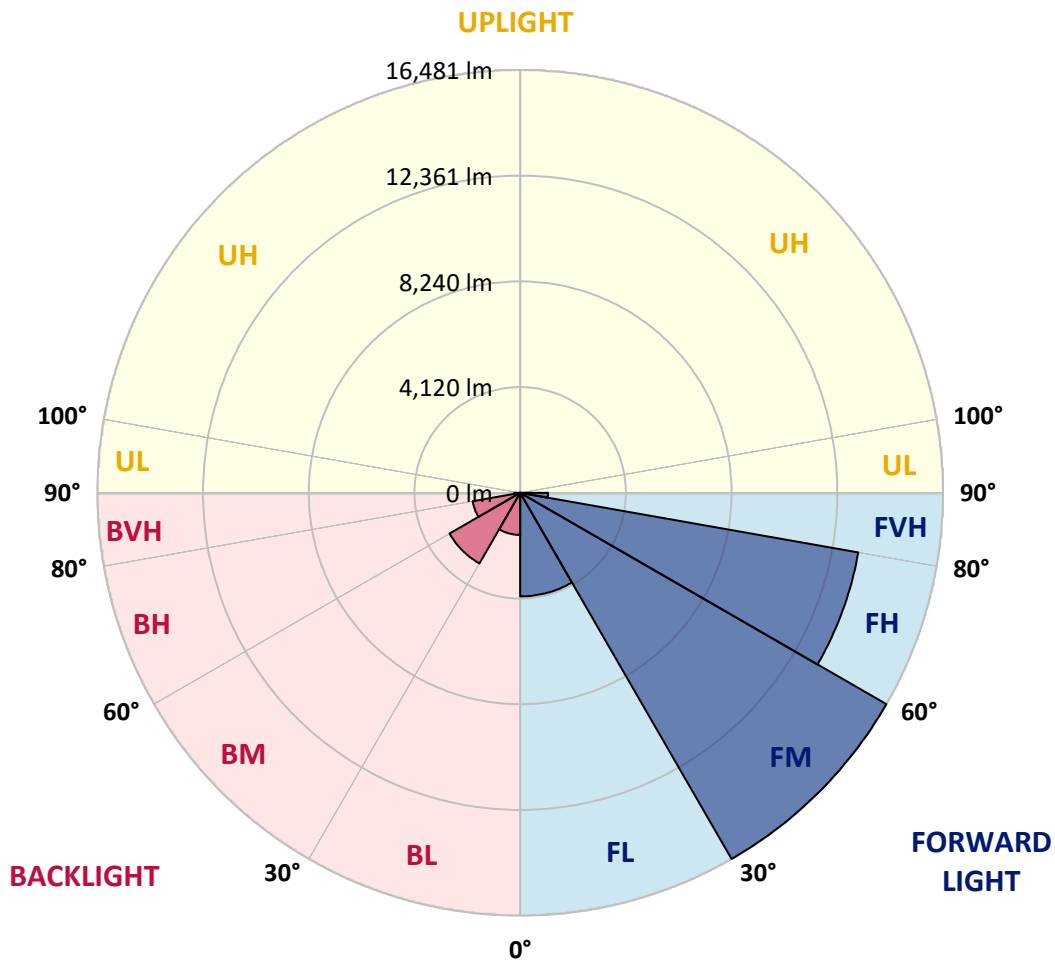
CATALOG NUMBER: GAN-AF-08-LED-U-SLR-7050-ADJ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4037.1  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 16480.7 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 13380.7 | 31.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 1087.6  | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 1641.4  | 3.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3178.9  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1880.8  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 236.7   | 0.6       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 |
| 2.5°  | 14717.3 | 14417.7 | 13919.9 | 13401.4 | 13085.6 | 12716.9 | 12428.8 | 12175.3 | 11668.3 | 11569.2 | 11659.1 |
| 5°    | 13839.2 | 13237.7 | 12299.7 | 11354.9 | 10725.7 | 10050.4 | 9525.0  | 9103.2  | 8460.3  | 8347.3  | 8483.3  |
| 7.5°  | 12431.1 | 11712.1 | 10472.2 | 9266.9  | 8377.3  | 7533.8  | 6966.9  | 6515.2  | 6012.7  | 5796.1  | 5809.9  |
| 10°   | 11216.6 | 10405.4 | 8939.6  | 7628.3  | 6900.0  | 6330.8  | 5853.7  | 5390.5  | 4881.2  | 4547.0  | 4454.8  |
| 12.5° | 10536.7 | 9603.3  | 7914.1  | 6743.3  | 6068.1  | 5468.9  | 4954.9  | 4459.4  | 3915.5  | 3574.5  | 3477.7  |
| 15°   | 10419.2 | 9405.1  | 7529.2  | 6176.4  | 5330.6  | 4572.4  | 3966.2  | 3413.1  | 2853.1  | 2576.6  | 2518.9  |
| 17.5° | 10928.5 | 9760.1  | 7404.7  | 5671.7  | 4636.9  | 3701.2  | 2956.8  | 2339.2  | 1882.9  | 1744.6  | 1733.1  |
| 20°   | 11905.7 | 10442.2 | 7388.6  | 5196.9  | 3952.4  | 2855.4  | 2060.3  | 1610.9  | 1410.4  | 1371.2  | 1373.6  |
| 22.5° | 13276.9 | 11500.0 | 7586.8  | 4839.7  | 3323.3  | 2129.5  | 1548.7  | 1348.2  | 1269.8  | 1233.0  | 1233.0  |
| 25°   | 15051.5 | 12956.6 | 8043.1  | 4579.3  | 2777.1  | 1700.8  | 1366.6  | 1246.8  | 1173.1  | 1147.7  | 1152.3  |
| 27.5° | 16770.7 | 14373.9 | 8573.2  | 4374.2  | 2419.8  | 1544.1  | 1295.2  | 1186.9  | 1122.3  | 1097.0  | 1108.5  |
| 30°   | 18112.0 | 15632.2 | 9015.7  | 4095.3  | 2237.8  | 1500.3  | 1320.5  | 1209.9  | 1117.7  | 1078.6  | 1080.9  |
| 32.5° | 19222.8 | 16733.8 | 9386.7  | 3894.8  | 2076.5  | 1286.0  | 1138.5  | 1090.1  | 1078.6  | 1032.5  | 1009.4  |
| 35°   | 20642.5 | 17934.5 | 9635.6  | 3899.4  | 2000.4  | 1147.7  | 1014.0  | 928.8   | 866.5   | 813.5   | 813.5   |
| 37.5° | 22306.4 | 19312.7 | 9900.6  | 3952.4  | 1972.8  | 1067.0  | 970.2   | 885.0   | 827.4   | 776.7   | 767.4   |
| 40°   | 23951.9 | 20663.2 | 10142.6 | 4003.1  | 1956.6  | 1018.6  | 935.7   | 857.3   | 804.3   | 753.6   | 739.8   |
| 42.5° | 25350.8 | 21774.0 | 10359.3 | 4028.5  | 1901.3  | 1014.0  | 910.3   | 838.9   | 788.2   | 732.9   | 719.0   |
| 45°   | 26385.6 | 22705.1 | 10592.0 | 4067.7  | 1846.0  | 1032.5  | 910.3   | 836.6   | 774.4   | 721.3   | 707.5   |
| 47.5° | 27309.7 | 23797.5 | 10981.5 | 4067.7  | 1779.2  | 997.9   | 940.3   | 838.9   | 772.0   | 716.7   | 705.2   |
| 50°   | 28547.3 | 25295.5 | 11719.0 | 3973.2  | 1684.7  | 961.0   | 991.0   | 829.7   | 751.3   | 707.5   | 693.7   |
| 52.5° | 30252.7 | 27215.2 | 12889.7 | 3809.5  | 1539.5  | 889.6   | 984.1   | 825.1   | 730.6   | 684.5   | 668.3   |
| 55°   | 32269.3 | 29271.0 | 14166.5 | 3618.3  | 1322.9  | 838.9   | 949.5   | 813.5   | 707.5   | 656.8   | 640.7   |
| 57.5° | 33843.3 | 30686.0 | 15065.3 | 3323.3  | 1133.9  | 811.2   | 841.2   | 802.0   | 679.9   | 626.9   | 613.0   |
| 60°   | 34470.2 | 30630.7 | 15311.9 | 2929.2  | 1041.7  | 788.2   | 735.2   | 898.8   | 656.8   | 603.8   | 587.7   |
| 62.5° | 34131.4 | 29215.6 | 14620.5 | 2652.6  | 1020.9  | 758.2   | 689.1   | 832.0   | 638.4   | 587.7   | 564.6   |
| 65°   | 32566.6 | 26708.2 | 12788.3 | 2578.9  | 1080.9  | 728.3   | 659.1   | 652.2   | 613.0   | 564.6   | 541.6   |
| 67.5° | 29158.0 | 22960.9 | 10239.4 | 2585.8  | 1156.9  | 698.3   | 629.2   | 596.9   | 578.5   | 539.3   | 518.5   |
| 70°   | 23749.1 | 18153.5 | 7632.9  | 2604.2  | 1196.1  | 663.7   | 596.9   | 562.3   | 541.6   | 502.4   | 488.6   |
| 72.5° | 17462.1 | 13991.3 | 5544.9  | 2484.4  | 1203.0  | 624.6   | 553.1   | 523.1   | 502.4   | 460.9   | 449.4   |
| 75°   | 11947.1 | 10702.6 | 3846.4  | 2058.0  | 1048.6  | 569.2   | 504.7   | 477.1   | 463.2   | 412.5   | 405.6   |
| 77.5° | 8727.6  | 8033.9  | 2461.3  | 1528.0  | 808.9   | 500.1   | 444.8   | 424.0   | 414.8   | 359.5   | 350.3   |
| 80°   | 7003.7  | 6356.1  | 1539.5  | 1046.3  | 592.3   | 419.4   | 373.3   | 361.8   | 352.6   | 297.3   | 290.4   |
| 82.5° | 4858.1  | 4256.6  | 988.7   | 679.9   | 444.8   | 325.0   | 295.0   | 290.4   | 276.6   | 225.9   | 218.9   |
| 85°   | 2562.7  | 2311.5  | 626.9   | 463.2   | 322.6   | 223.5   | 205.1   | 205.1   | 198.2   | 149.8   | 145.2   |
| 87.5° | 327.3   | 532.4   | 318.0   | 242.0   | 177.5   | 99.1    | 99.1    | 96.8    | 103.7   | 85.3    | 73.7    |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 |
| 2.5°  | 11447.0 | 11557.7 | 11451.6 | 11458.6 | 11576.1 | 11926.4 | 12085.4 | 12216.8 | 12357.4 | 12449.5 | 12491.0 |
| 5°    | 8296.6  | 8554.7  | 8642.3  | 8826.7  | 9098.6  | 9545.7  | 9723.2  | 9852.2  | 9937.5  | 9988.2  | 10009.0 |
| 7.5°  | 5674.0  | 5830.7  | 6005.8  | 6303.1  | 6895.4  | 7158.1  | 7275.7  | 7245.7  | 7148.9  | 7114.4  | 7079.8  |
| 10°   | 4277.4  | 4215.1  | 4182.9  | 4346.5  | 4825.9  | 5090.9  | 5173.9  | 5093.2  | 5040.2  | 5051.7  | 5109.3  |
| 12.5° | 3314.0  | 3205.7  | 3074.4  | 3055.9  | 3371.7  | 3609.0  | 3662.0  | 3666.6  | 3763.4  | 3848.7  | 3975.5  |
| 15°   | 2415.2  | 2403.7  | 2339.2  | 2300.0  | 2479.8  | 2673.4  | 2696.4  | 2737.9  | 2825.5  | 2887.7  | 2998.3  |
| 17.5° | 1703.1  | 1765.3  | 1816.0  | 1841.4  | 1977.4  | 2115.6  | 2090.3  | 2069.5  | 2053.4  | 2053.4  | 2106.4  |
| 20°   | 1373.6  | 1415.0  | 1479.6  | 1553.3  | 1691.6  | 1788.4  | 1726.2  | 1643.2  | 1583.3  | 1564.8  | 1571.7  |
| 22.5° | 1237.6  | 1269.8  | 1306.7  | 1371.2  | 1495.7  | 1562.5  | 1495.7  | 1435.8  | 1375.9  | 1355.1  | 1348.2  |
| 25°   | 1168.4  | 1209.9  | 1244.5  | 1292.9  | 1385.1  | 1431.2  | 1366.6  | 1322.9  | 1286.0  | 1260.6  | 1242.2  |
| 27.5° | 1129.3  | 1166.1  | 1175.4  | 1198.4  | 1276.8  | 1318.2  | 1286.0  | 1267.5  | 1244.5  | 1221.4  | 1198.4  |
| 30°   | 1087.8  | 1080.9  | 1064.7  | 1067.0  | 1129.3  | 1170.7  | 1168.4  | 1173.1  | 1170.7  | 1163.8  | 1159.2  |
| 32.5° | 993.3   | 979.5   | 965.6   | 979.5   | 1037.1  | 1074.0  | 1076.3  | 1085.5  | 1085.5  | 1083.2  | 1101.6  |
| 35°   | 827.4   | 852.7   | 868.8   | 910.3   | 979.5   | 1011.7  | 997.9   | 974.9   | 933.4   | 908.0   | 905.7   |
| 37.5° | 765.1   | 769.7   | 797.4   | 855.0   | 931.1   | 961.0   | 940.3   | 887.3   | 859.6   | 855.0   | 861.9   |
| 40°   | 735.2   | 739.8   | 755.9   | 808.9   | 885.0   | 914.9   | 896.5   | 857.3   | 832.0   | 829.7   | 841.2   |
| 42.5° | 714.4   | 719.0   | 728.3   | 765.1   | 827.4   | 864.2   | 866.5   | 838.9   | 808.9   | 811.2   | 822.7   |
| 45°   | 702.9   | 705.2   | 702.9   | 721.3   | 779.0   | 822.7   | 841.2   | 822.7   | 797.4   | 802.0   | 815.8   |
| 47.5° | 700.6   | 693.7   | 684.5   | 689.1   | 749.0   | 792.8   | 815.8   | 808.9   | 797.4   | 802.0   | 813.5   |
| 50°   | 691.4   | 675.3   | 663.7   | 661.4   | 721.3   | 767.4   | 788.2   | 788.2   | 792.8   | 802.0   | 813.5   |
| 52.5° | 663.7   | 645.3   | 645.3   | 638.4   | 702.9   | 746.7   | 760.5   | 762.8   | 769.7   | 785.9   | 802.0   |
| 55°   | 629.2   | 622.2   | 629.2   | 617.6   | 689.1   | 730.6   | 737.5   | 742.1   | 746.7   | 760.5   | 783.6   |
| 57.5° | 599.2   | 590.0   | 606.1   | 601.5   | 677.6   | 714.4   | 714.4   | 723.7   | 723.7   | 742.1   | 760.5   |
| 60°   | 583.1   | 564.6   | 571.5   | 576.2   | 661.4   | 700.6   | 696.0   | 705.2   | 709.8   | 726.0   | 739.8   |
| 62.5° | 562.3   | 546.2   | 546.2   | 557.7   | 643.0   | 679.9   | 677.6   | 684.5   | 702.9   | 707.5   | 721.3   |
| 65°   | 537.0   | 530.1   | 523.1   | 537.0   | 624.6   | 656.8   | 659.1   | 668.3   | 684.5   | 689.1   | 700.6   |
| 67.5° | 511.6   | 513.9   | 500.1   | 513.9   | 608.4   | 633.8   | 633.8   | 652.2   | 659.1   | 668.3   | 679.9   |
| 70°   | 484.0   | 486.3   | 474.8   | 490.9   | 596.9   | 608.4   | 606.1   | 631.5   | 636.1   | 643.0   | 654.5   |
| 72.5° | 449.4   | 449.4   | 444.8   | 467.8   | 578.5   | 583.1   | 578.5   | 599.2   | 601.5   | 608.4   | 613.0   |
| 75°   | 412.5   | 412.5   | 407.9   | 440.2   | 566.9   | 555.4   | 541.6   | 557.7   | 562.3   | 566.9   | 566.9   |
| 77.5° | 364.1   | 368.7   | 368.7   | 407.9   | 527.8   | 543.9   | 497.8   | 507.0   | 513.9   | 516.2   | 509.3   |
| 80°   | 304.2   | 315.7   | 320.3   | 371.0   | 442.5   | 502.4   | 444.8   | 451.7   | 454.0   | 454.0   | 444.8   |
| 82.5° | 232.8   | 253.5   | 265.0   | 320.3   | 338.8   | 421.7   | 387.2   | 394.1   | 387.2   | 373.3   | 368.7   |
| 85°   | 161.3   | 189.0   | 202.8   | 244.3   | 255.8   | 325.0   | 322.6   | 322.6   | 308.8   | 290.4   | 288.1   |
| 87.5° | 87.6    | 103.7   | 112.9   | 145.2   | 175.2   | 218.9   | 237.4   | 230.5   | 218.9   | 207.4   | 209.7   |
| 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):**

|       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    | 285°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 |
| 2.5°  | 12707.7 | 13021.1 | 13521.2 | 13903.8 | 14288.6 | 14659.7 | 15060.7 | 15367.2 | 15627.6 | 15729.0 | 16037.8 |
| 5°    | 10218.7 | 10610.5 | 11082.9 | 11935.6 | 12539.4 | 13205.5 | 13975.2 | 14993.8 | 15385.6 | 15927.2 | 16814.5 |
| 7.5°  | 7225.0  | 7579.9  | 8340.4  | 9029.5  | 9884.5  | 10827.1 | 11866.5 | 13272.3 | 13786.2 | 14655.1 | 16100.1 |
| 10°   | 5395.1  | 5807.6  | 6418.4  | 6999.1  | 7752.7  | 8716.1  | 9909.9  | 11481.6 | 12106.2 | 13048.8 | 14712.7 |
| 12.5° | 4346.5  | 4832.8  | 5480.4  | 6026.6  | 6609.6  | 7289.5  | 8448.7  | 10172.6 | 11009.2 | 11834.2 | 13516.6 |
| 15°   | 3339.4  | 3848.7  | 4450.2  | 5143.9  | 5786.9  | 6519.8  | 7734.3  | 9619.5  | 10582.8 | 11442.4 | 12878.2 |
| 17.5° | 2311.5  | 2747.1  | 3505.3  | 4229.0  | 5051.7  | 5989.7  | 7536.1  | 9737.0  | 10887.0 | 11878.0 | 12988.8 |
| 20°   | 1638.6  | 1887.5  | 2509.7  | 3348.6  | 4374.2  | 5551.8  | 7499.2  | 10354.7 | 11850.3 | 12981.9 | 13698.7 |
| 22.5° | 1378.2  | 1470.3  | 1832.2  | 2601.9  | 3786.5  | 5224.6  | 7628.3  | 11221.2 | 13150.2 | 14595.1 | 14830.2 |
| 25°   | 1256.0  | 1311.3  | 1500.3  | 2041.9  | 3263.3  | 4987.2  | 8063.9  | 12511.8 | 14758.8 | 16208.4 | 16166.9 |
| 27.5° | 1189.2  | 1246.8  | 1371.2  | 1723.9  | 2869.3  | 4839.7  | 8499.4  | 14042.0 | 16597.9 | 17959.9 | 17443.7 |
| 30°   | 1168.4  | 1246.8  | 1378.2  | 1624.8  | 2588.1  | 4606.9  | 8856.6  | 15385.6 | 18012.9 | 19142.2 | 18024.4 |
| 32.5° | 1152.3  | 1163.8  | 1223.8  | 1401.2  | 2320.8  | 4335.0  | 9098.6  | 16590.9 | 19398.0 | 20266.8 | 18861.0 |
| 35°   | 931.1   | 988.7   | 1085.5  | 1256.0  | 2164.0  | 4171.4  | 9098.6  | 17630.3 | 20762.3 | 21403.0 | 19658.4 |
| 37.5° | 896.5   | 947.2   | 1032.5  | 1177.7  | 2076.5  | 4090.7  | 8916.6  | 18632.8 | 22156.6 | 22691.3 | 20315.2 |
| 40°   | 878.1   | 919.5   | 1000.2  | 1117.7  | 2039.6  | 3998.5  | 8651.5  | 19517.8 | 23518.6 | 23981.9 | 20928.2 |
| 42.5° | 864.2   | 901.1   | 977.2   | 1080.9  | 1991.2  | 3897.1  | 8437.2  | 20227.6 | 24700.9 | 25083.5 | 21513.6 |
| 45°   | 857.3   | 896.5   | 979.5   | 1099.3  | 1894.4  | 3763.4  | 8365.8  | 20995.1 | 25673.5 | 26003.0 | 22147.4 |
| 47.5° | 857.3   | 903.4   | 991.0   | 1138.5  | 1779.2  | 3625.2  | 8589.3  | 22006.8 | 26593.0 | 26754.3 | 22894.1 |
| 50°   | 850.4   | 901.1   | 1023.3  | 1099.3  | 1610.9  | 3450.0  | 9114.8  | 23281.3 | 27588.6 | 27607.0 | 23839.0 |
| 52.5° | 836.6   | 896.5   | 1101.6  | 1076.3  | 1417.3  | 3219.6  | 9824.6  | 24917.5 | 29061.2 | 29171.9 | 25318.5 |
| 55°   | 820.4   | 889.6   | 1080.9  | 1023.3  | 1258.3  | 2945.3  | 10405.4 | 26906.4 | 31130.8 | 31437.3 | 27494.1 |
| 57.5° | 799.7   | 880.4   | 1046.3  | 949.5   | 1154.6  | 2592.7  | 10615.1 | 28362.9 | 32575.8 | 33345.5 | 29946.2 |
| 60°   | 781.3   | 873.5   | 944.9   | 905.7   | 1090.1  | 2295.4  | 10209.5 | 28074.9 | 32476.7 | 34136.0 | 32119.5 |
| 62.5° | 762.8   | 880.4   | 861.9   | 878.1   | 1060.1  | 2104.1  | 9149.3  | 25767.9 | 30833.5 | 33320.2 | 33730.4 |
| 65°   | 742.1   | 818.1   | 813.5   | 855.0   | 1053.2  | 2028.1  | 7584.5  | 22308.7 | 27657.7 | 30741.3 | 34110.7 |
| 67.5° | 714.4   | 755.9   | 779.0   | 825.1   | 1076.3  | 1961.2  | 6121.1  | 18402.4 | 23244.4 | 26876.5 | 32128.7 |
| 70°   | 684.5   | 719.0   | 744.4   | 788.2   | 1062.4  | 1931.3  | 5090.9  | 14512.2 | 18443.9 | 22027.5 | 28217.7 |
| 72.5° | 645.3   | 675.3   | 698.3   | 739.8   | 1048.6  | 1915.1  | 4300.4  | 11686.7 | 13770.1 | 16362.8 | 22942.5 |
| 75°   | 599.2   | 626.9   | 643.0   | 684.5   | 1004.8  | 1753.8  | 3380.9  | 9889.1  | 10303.9 | 11382.5 | 18273.3 |
| 77.5° | 546.2   | 566.9   | 580.8   | 626.9   | 889.6   | 1458.8  | 2445.2  | 7628.3  | 8001.6  | 8264.4  | 14009.8 |
| 80°   | 484.0   | 504.7   | 511.6   | 555.4   | 737.5   | 1140.8  | 1594.8  | 5634.8  | 5985.1  | 6045.0  | 9149.3  |
| 82.5° | 412.5   | 433.3   | 433.3   | 474.8   | 603.8   | 820.4   | 1046.3  | 3860.2  | 3929.4  | 4132.2  | 6466.8  |
| 85°   | 331.9   | 348.0   | 348.0   | 368.7   | 467.8   | 613.0   | 719.0   | 1938.2  | 1917.4  | 2189.4  | 5602.5  |
| 87.5° | 237.4   | 248.9   | 260.4   | 265.0   | 334.2   | 405.6   | 433.3   | 590.0   | 389.5   | 447.1   | 3597.5  |
| 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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| 0°    | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 | 14164.2 |
| 2.5°  | 16270.6 | 16402.0 | 16268.3 | 16171.5 | 15754.4 | 15411.0 | 14952.4 | 14717.3 |
| 5°    | 17489.8 | 17823.9 | 17711.0 | 17305.4 | 16434.2 | 15454.8 | 14341.6 | 13839.2 |
| 7.5°  | 17342.3 | 18118.9 | 18137.3 | 17379.1 | 16095.5 | 14652.8 | 13145.5 | 12431.1 |
| 10°   | 16194.6 | 17187.8 | 17471.3 | 16736.1 | 15374.1 | 13760.9 | 12032.4 | 11216.6 |
| 12.5° | 14913.2 | 15885.7 | 16102.4 | 15848.9 | 14710.4 | 13090.2 | 11336.4 | 10536.7 |
| 15°   | 13864.6 | 14300.2 | 14558.3 | 14779.5 | 14141.1 | 12822.9 | 11297.2 | 10419.2 |
| 17.5° | 13226.2 | 13177.8 | 13251.6 | 13636.4 | 13744.7 | 13129.4 | 11896.4 | 10928.5 |
| 20°   | 12995.7 | 12256.0 | 12237.5 | 12767.6 | 13558.1 | 13860.0 | 13067.2 | 11905.7 |
| 22.5° | 13122.5 | 11924.1 | 11772.0 | 12401.2 | 13657.2 | 14913.2 | 14602.1 | 13276.9 |
| 25°   | 13560.4 | 11951.8 | 11829.6 | 12438.0 | 14016.7 | 16035.5 | 16259.1 | 15051.5 |
| 27.5° | 14249.5 | 12126.9 | 11965.6 | 12590.1 | 14493.7 | 16978.1 | 17890.8 | 16770.7 |
| 30°   | 14904.0 | 12431.1 | 12230.6 | 12889.7 | 14929.3 | 17351.5 | 18891.0 | 18112.0 |
| 32.5° | 15699.1 | 13000.4 | 12647.7 | 13440.5 | 15468.6 | 17946.1 | 19782.8 | 19222.8 |
| 35°   | 16478.0 | 13811.6 | 13373.7 | 14290.9 | 16070.1 | 18685.8 | 20801.5 | 20642.5 |
| 37.5° | 17333.0 | 14871.7 | 14509.9 | 15390.2 | 16892.9 | 19384.1 | 22101.3 | 22306.4 |
| 40°   | 18245.7 | 16277.5 | 15848.9 | 16994.3 | 18169.6 | 20259.9 | 23458.7 | 23951.9 |
| 42.5° | 19165.2 | 17837.7 | 17326.1 | 18487.6 | 19573.1 | 21124.1 | 24620.2 | 25350.8 |
| 45°   | 20218.4 | 19531.6 | 19289.7 | 20545.7 | 20921.3 | 21946.9 | 25477.6 | 26385.6 |
| 47.5° | 21444.5 | 21453.7 | 21843.2 | 22345.6 | 22281.1 | 22877.9 | 26339.5 | 27309.7 |
| 50°   | 22875.6 | 23852.8 | 24712.4 | 25046.6 | 23682.3 | 23878.2 | 27535.6 | 28547.3 |
| 52.5° | 24594.9 | 26722.1 | 27786.8 | 27567.8 | 25191.8 | 25099.6 | 29430.0 | 30252.7 |
| 55°   | 26745.1 | 29759.5 | 30817.4 | 30660.6 | 26927.2 | 26763.5 | 31789.9 | 32269.3 |
| 57.5° | 29234.1 | 32702.5 | 33675.1 | 32969.9 | 29010.5 | 28588.8 | 33741.9 | 33843.3 |
| 60°   | 31421.2 | 35034.8 | 35887.5 | 35106.3 | 31112.4 | 30531.6 | 34961.1 | 34470.2 |
| 62.5° | 32638.0 | 35825.3 | 36424.5 | 35583.3 | 32552.7 | 32601.1 | 35228.4 | 34131.4 |
| 65°   | 32094.1 | 33827.2 | 34020.8 | 33951.6 | 32181.7 | 33801.8 | 34267.4 | 32566.6 |
| 67.5° | 29116.6 | 28775.5 | 29100.4 | 29549.8 | 29001.3 | 32220.9 | 31605.5 | 29158.0 |
| 70°   | 23871.2 | 21997.6 | 22645.2 | 22947.1 | 23196.0 | 27726.9 | 27431.9 | 23749.1 |
| 72.5° | 17989.9 | 15411.0 | 15922.6 | 15860.4 | 17012.7 | 22239.6 | 21333.9 | 17462.1 |
| 75°   | 12746.8 | 10449.1 | 10513.7 | 10488.3 | 11871.1 | 17399.9 | 15447.9 | 11947.1 |
| 77.5° | 8918.9  | 7570.7  | 7605.2  | 7748.1  | 7980.9  | 13122.5 | 11036.8 | 8727.6  |
| 80°   | 6132.6  | 5745.4  | 5936.7  | 5948.2  | 5531.1  | 8815.2  | 8153.7  | 7003.7  |
| 82.5° | 4567.8  | 3993.9  | 3947.8  | 4014.6  | 4335.0  | 7142.0  | 6266.3  | 4858.1  |
| 85°   | 3740.4  | 2364.5  | 1901.3  | 2383.0  | 3841.8  | 7072.9  | 4162.1  | 2562.7  |
| 87.5° | 2106.4  | 1122.3  | 507.0   | 940.3   | 1532.6  | 4683.0  | 1203.0  | 327.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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