

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: P193075

Luminaire Tested: **GAN-AF-07-LED-U-SLR-7030-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193075  
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-07-LED-U-SLR-7030-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 35785.6 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

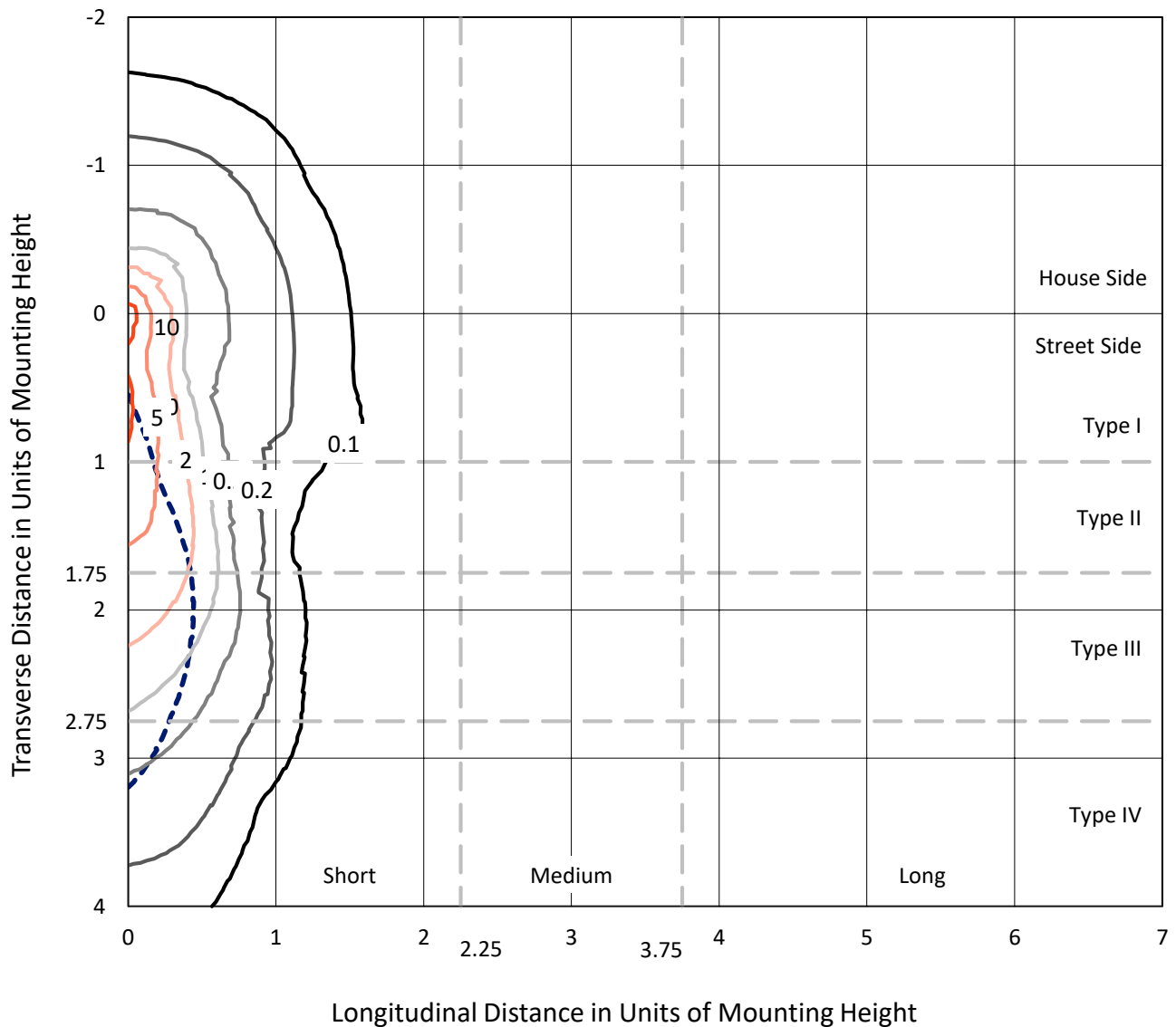
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

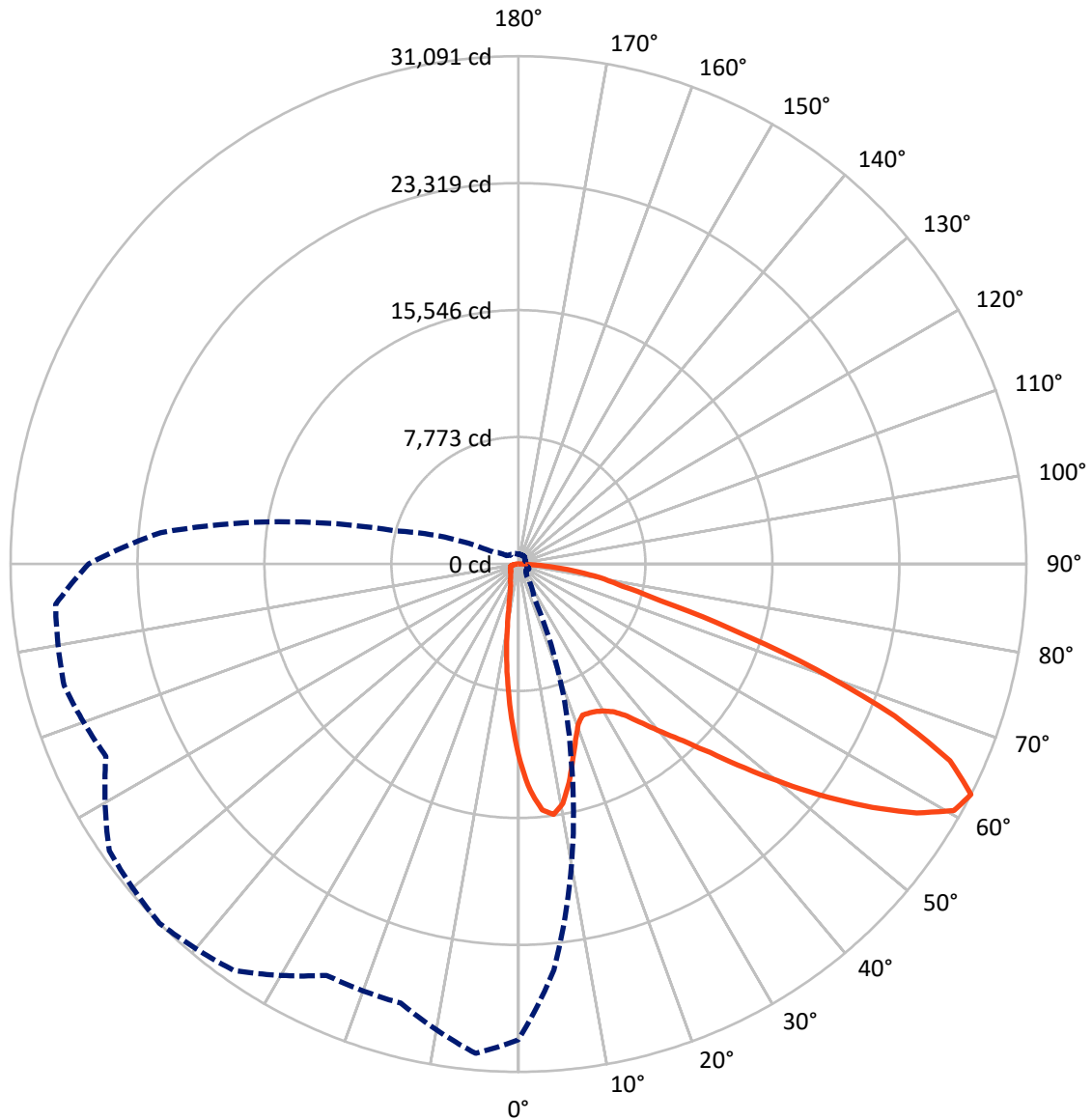
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 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    | 5922.0   | 0.0    | 5922.0  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 29863.6  | 0.0    | 29863.6 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 35785.6  | 0.0    | 35785.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 880.1   | 2.5       |
| 10°-20°   | 1613.9  | 4.5       |
| 20°-30°   | 2353.1  | 6.6       |
| 30°-40°   | 3624.1  | 10.1      |
| 40°-50°   | 5333.7  | 14.9      |
| 50°-60°   | 7823.4  | 21.9      |
| 60°-70°   | 8745.4  | 24.4      |
| 70°-80°   | 4281.6  | 12.0      |
| 80°-90°   | 1130.4  | 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°    | 35785.6 | 100.0     |
| 0°-180°   | 35785.6 | 100.0     |

**Coefficient of Utilization**



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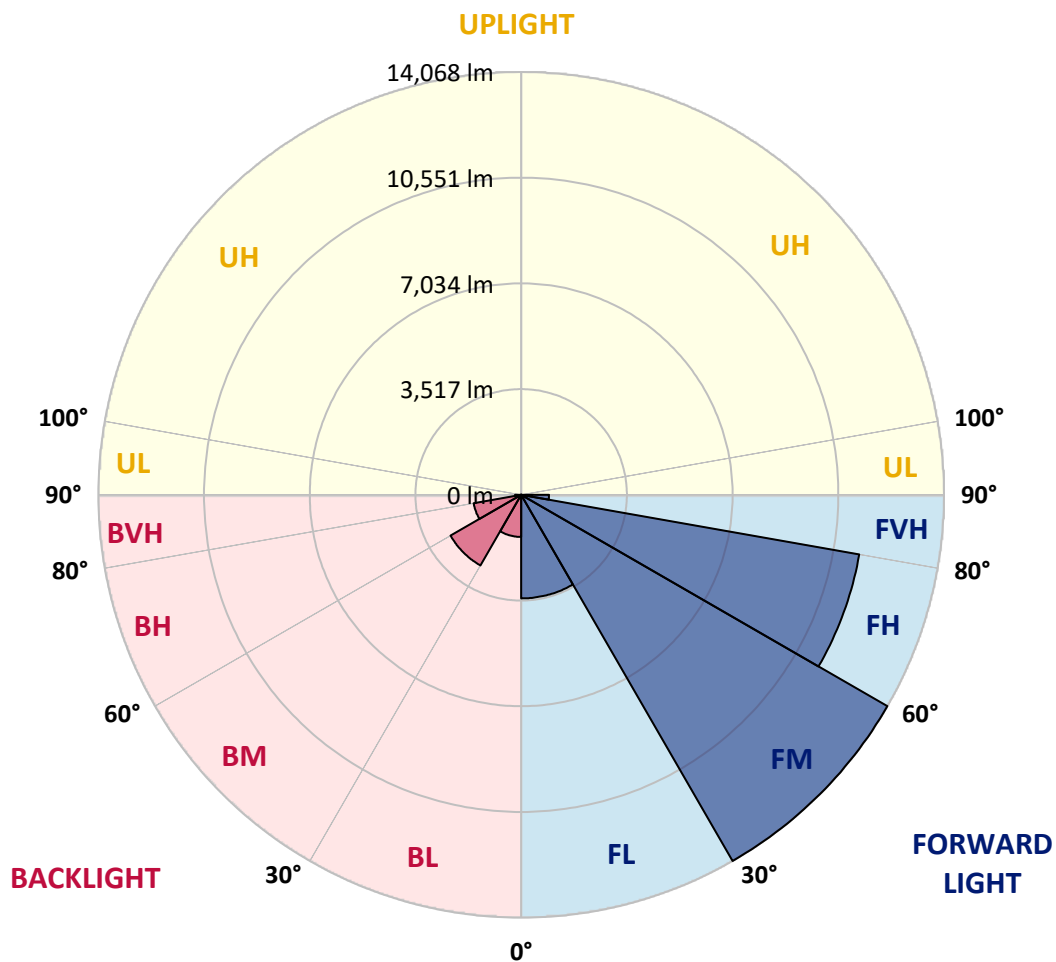
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3446.0  | 9.6       |                         |      |          |
| FM (30°-60°)   | 14067.7 | 39.3      |                         |      |          |
| FH (60°-80°)   | 11421.5 | 31.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 928.4   | 2.6       |                         |      | G5       |
| BL (0°-30°)    | 1401.1  | 3.9       | B3/2500                 |      |          |
| BM (30°-60°)   | 2713.4  | 7.6       | B3/5000                 |      |          |
| BH (60°-80°)   | 1605.4  | 4.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 202.1   | 0.6       |                         |      | G2/225   |
| 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°    | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 |
| 2.5°  | 12562.4 | 12306.8 | 11881.8 | 11439.2 | 11169.7 | 10854.9 | 10609.1 | 10392.6 | 9959.8  | 9875.3  | 9952.0  |
| 5°    | 11813.0 | 11299.5 | 10498.8 | 9692.3  | 9155.3  | 8578.9  | 8130.4  | 7770.4  | 7221.5  | 7125.2  | 7241.2  |
| 7.5°  | 10611.0 | 9997.2  | 8938.9  | 7910.1  | 7150.7  | 6430.8  | 5946.8  | 5561.2  | 5132.4  | 4947.5  | 4959.3  |
| 10°   | 9574.3  | 8881.9  | 7630.6  | 6511.5  | 5889.7  | 5403.9  | 4996.7  | 4601.2  | 4166.5  | 3881.2  | 3802.6  |
| 12.5° | 8994.0  | 8197.2  | 6755.3  | 5756.0  | 5179.7  | 4668.1  | 4229.4  | 3806.5  | 3342.2  | 3051.1  | 2968.5  |
| 15°   | 8893.7  | 8028.1  | 6426.8  | 5272.1  | 4550.1  | 3902.8  | 3385.5  | 2913.4  | 2435.4  | 2199.3  | 2150.1  |
| 17.5° | 9328.4  | 8331.0  | 6320.5  | 4841.3  | 3958.0  | 3159.3  | 2523.9  | 1996.7  | 1607.2  | 1489.2  | 1479.4  |
| 20°   | 10162.5 | 8913.4  | 6306.8  | 4436.0  | 3373.7  | 2437.3  | 1758.6  | 1375.0  | 1203.9  | 1170.5  | 1172.5  |
| 22.5° | 11332.9 | 9816.3  | 6476.1  | 4131.1  | 2836.7  | 1817.6  | 1321.9  | 1150.8  | 1084.0  | 1052.5  | 1052.5  |
| 25°   | 12847.7 | 11059.6 | 6865.6  | 3908.7  | 2370.5  | 1451.8  | 1166.6  | 1064.3  | 1001.3  | 979.6   | 983.6   |
| 27.5° | 14315.2 | 12269.4 | 7317.9  | 3733.7  | 2065.5  | 1318.0  | 1105.6  | 1013.1  | 957.9   | 936.4   | 946.1   |
| 30°   | 15460.0 | 13343.4 | 7695.6  | 3495.6  | 1910.2  | 1280.6  | 1127.2  | 1032.8  | 954.1   | 920.6   | 922.5   |
| 32.5° | 16408.3 | 14283.8 | 8012.3  | 3324.5  | 1772.4  | 1097.7  | 971.8   | 930.5   | 920.6   | 881.2   | 861.6   |
| 35°   | 17620.1 | 15308.7 | 8224.8  | 3328.5  | 1707.5  | 979.6   | 865.6   | 792.7   | 739.6   | 694.5   | 694.5   |
| 37.5° | 19040.4 | 16485.0 | 8450.9  | 3373.7  | 1683.9  | 910.7   | 828.1   | 755.4   | 706.3   | 662.9   | 655.1   |
| 40°   | 20445.0 | 17637.8 | 8657.6  | 3417.0  | 1670.1  | 869.4   | 798.6   | 731.8   | 686.5   | 643.3   | 631.5   |
| 42.5° | 21639.1 | 18586.0 | 8842.5  | 3438.6  | 1622.9  | 865.6   | 777.1   | 716.0   | 672.8   | 625.6   | 613.7   |
| 45°   | 22522.3 | 19380.7 | 9041.2  | 3472.0  | 1575.7  | 881.2   | 777.1   | 714.1   | 661.0   | 615.6   | 603.8   |
| 47.5° | 23311.1 | 20313.2 | 9373.7  | 3472.0  | 1518.7  | 851.7   | 802.6   | 716.0   | 659.1   | 611.8   | 601.9   |
| 50°   | 24367.5 | 21591.9 | 10003.1 | 3391.4  | 1438.0  | 820.3   | 845.8   | 708.2   | 641.4   | 603.8   | 592.0   |
| 52.5° | 25823.3 | 23230.4 | 11002.5 | 3251.8  | 1314.1  | 759.4   | 839.9   | 704.2   | 623.7   | 584.2   | 570.5   |
| 55°   | 27544.6 | 24985.3 | 12092.3 | 3088.4  | 1129.2  | 716.0   | 810.4   | 694.5   | 603.8   | 560.6   | 546.9   |
| 57.5° | 28888.1 | 26193.0 | 12859.5 | 2836.7  | 967.8   | 692.4   | 718.1   | 684.6   | 580.2   | 535.1   | 523.3   |
| 60°   | 29423.2 | 26145.8 | 13070.0 | 2500.3  | 889.2   | 672.8   | 627.5   | 767.2   | 560.6   | 515.3   | 501.6   |
| 62.5° | 29134.1 | 24938.0 | 12479.8 | 2264.2  | 871.5   | 647.3   | 588.2   | 710.1   | 544.8   | 501.6   | 482.0   |
| 65°   | 27798.3 | 22797.7 | 10915.9 | 2201.2  | 922.5   | 621.6   | 562.5   | 556.6   | 523.3   | 482.0   | 462.2   |
| 67.5° | 24888.8 | 19599.0 | 8740.2  | 2207.1  | 987.4   | 596.0   | 537.0   | 509.4   | 493.8   | 460.3   | 442.6   |
| 70°   | 20271.9 | 15495.5 | 6515.3  | 2222.9  | 1020.9  | 566.5   | 509.4   | 479.9   | 462.2   | 428.9   | 417.1   |
| 72.5° | 14905.3 | 11942.8 | 4733.0  | 2120.6  | 1026.8  | 533.0   | 472.1   | 446.6   | 428.9   | 393.5   | 383.6   |
| 75°   | 10197.9 | 9135.6  | 3283.2  | 1756.7  | 895.1   | 485.8   | 430.8   | 407.2   | 395.4   | 352.2   | 346.3   |
| 77.5° | 7449.8  | 6857.6  | 2100.9  | 1304.2  | 690.5   | 426.8   | 379.6   | 361.9   | 354.1   | 306.9   | 299.1   |
| 80°   | 5978.2  | 5425.5  | 1314.1  | 893.0   | 505.6   | 358.1   | 318.7   | 308.8   | 301.0   | 253.8   | 247.9   |
| 82.5° | 4146.8  | 3633.4  | 843.9   | 580.2   | 379.6   | 277.4   | 251.9   | 247.9   | 236.1   | 192.8   | 186.9   |
| 85°   | 2187.5  | 1973.1  | 535.1   | 395.4   | 275.5   | 190.7   | 175.1   | 175.1   | 169.2   | 127.9   | 123.9   |
| 87.5° | 279.3   | 454.4   | 271.5   | 206.6   | 151.5   | 84.5    | 84.5    | 82.6    | 88.5    | 72.7    | 63.0    |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 |
| 2.5°  | 9771.0  | 9865.4  | 9775.0  | 9780.9  | 9881.2  | 10180.2 | 10315.9 | 10428.0 | 10548.1 | 10626.8 | 10662.2 |
| 5°    | 7081.8  | 7302.3  | 7376.9  | 7534.3  | 7766.4  | 8148.1  | 8299.6  | 8409.6  | 8482.6  | 8525.8  | 8543.5  |
| 7.5°  | 4843.3  | 4977.0  | 5126.5  | 5380.3  | 5885.8  | 6110.1  | 6210.4  | 6184.8  | 6102.2  | 6072.7  | 6043.2  |
| 10°   | 3651.1  | 3598.0  | 3570.5  | 3710.1  | 4119.3  | 4345.6  | 4416.4  | 4347.5  | 4302.2  | 4312.0  | 4361.3  |
| 12.5° | 2828.8  | 2736.4  | 2624.2  | 2608.4  | 2878.0  | 3080.6  | 3125.9  | 3129.8  | 3212.4  | 3285.2  | 3393.4  |
| 15°   | 2061.6  | 2051.8  | 1996.7  | 1963.3  | 2116.7  | 2282.0  | 2301.6  | 2337.0  | 2411.8  | 2464.9  | 2559.3  |
| 17.5° | 1453.8  | 1506.9  | 1550.2  | 1571.8  | 1687.8  | 1805.8  | 1784.2  | 1766.5  | 1752.7  | 1752.7  | 1798.0  |
| 20°   | 1172.5  | 1207.9  | 1262.9  | 1325.9  | 1443.9  | 1526.6  | 1473.5  | 1402.6  | 1351.4  | 1335.7  | 1341.6  |
| 22.5° | 1056.4  | 1084.0  | 1115.4  | 1170.5  | 1276.7  | 1333.7  | 1276.7  | 1225.6  | 1174.4  | 1156.7  | 1150.8  |
| 25°   | 997.3   | 1032.8  | 1062.3  | 1103.6  | 1182.3  | 1221.6  | 1166.6  | 1129.2  | 1097.7  | 1076.1  | 1060.4  |
| 27.5° | 963.8   | 995.4   | 1003.2  | 1022.8  | 1089.9  | 1125.3  | 1097.7  | 1082.0  | 1062.3  | 1042.7  | 1022.8  |
| 30°   | 928.4   | 922.5   | 908.8   | 910.7   | 963.8   | 999.2   | 997.3   | 1001.3  | 999.2   | 993.3   | 989.5   |
| 32.5° | 847.9   | 836.1   | 824.3   | 836.1   | 885.2   | 916.6   | 918.7   | 926.5   | 926.5   | 924.6   | 940.2   |
| 35°   | 706.3   | 727.8   | 741.7   | 777.1   | 836.1   | 863.5   | 851.7   | 832.1   | 796.7   | 775.0   | 773.1   |
| 37.5° | 653.2   | 657.0   | 680.6   | 729.9   | 794.8   | 820.3   | 802.6   | 757.3   | 733.7   | 729.9   | 735.8   |
| 40°   | 627.5   | 631.5   | 645.2   | 690.5   | 755.4   | 780.9   | 765.3   | 731.8   | 710.1   | 708.2   | 718.1   |
| 42.5° | 609.7   | 613.7   | 621.6   | 653.2   | 706.3   | 737.7   | 739.6   | 716.0   | 690.5   | 692.4   | 702.3   |
| 45°   | 600.0   | 601.9   | 600.0   | 615.6   | 665.0   | 702.3   | 718.1   | 702.3   | 680.6   | 684.6   | 696.4   |
| 47.5° | 597.9   | 592.0   | 584.2   | 588.2   | 639.3   | 676.8   | 696.4   | 690.5   | 680.6   | 684.6   | 694.5   |
| 50°   | 590.1   | 576.4   | 566.5   | 564.6   | 615.6   | 655.1   | 672.8   | 672.8   | 676.8   | 684.6   | 694.5   |
| 52.5° | 566.5   | 550.7   | 550.7   | 544.8   | 600.0   | 637.4   | 649.2   | 651.1   | 657.0   | 670.9   | 684.6   |
| 55°   | 537.0   | 531.1   | 537.0   | 527.1   | 588.2   | 623.7   | 629.6   | 633.4   | 637.4   | 649.2   | 668.8   |
| 57.5° | 511.5   | 503.5   | 517.4   | 513.4   | 578.3   | 609.7   | 609.7   | 617.7   | 617.7   | 633.4   | 649.2   |
| 60°   | 497.6   | 482.0   | 487.9   | 491.7   | 564.6   | 597.9   | 594.1   | 601.9   | 605.9   | 619.7   | 631.5   |
| 62.5° | 479.9   | 466.2   | 466.2   | 476.1   | 548.8   | 580.2   | 578.3   | 584.2   | 600.0   | 603.8   | 615.6   |
| 65°   | 458.4   | 452.5   | 446.6   | 458.4   | 533.0   | 560.6   | 562.5   | 570.5   | 584.2   | 588.2   | 597.9   |
| 67.5° | 436.7   | 438.6   | 426.8   | 438.6   | 519.3   | 541.0   | 541.0   | 556.6   | 562.5   | 570.5   | 580.2   |
| 70°   | 413.1   | 415.0   | 405.3   | 419.0   | 509.4   | 519.3   | 517.4   | 538.9   | 542.9   | 548.8   | 558.7   |
| 72.5° | 383.6   | 383.6   | 379.6   | 399.4   | 493.8   | 497.6   | 493.8   | 511.5   | 513.4   | 519.3   | 523.3   |
| 75°   | 352.2   | 352.2   | 348.2   | 375.8   | 483.9   | 474.0   | 462.2   | 476.1   | 479.9   | 483.9   | 483.9   |
| 77.5° | 310.9   | 314.7   | 314.7   | 348.2   | 450.4   | 464.3   | 424.9   | 432.7   | 438.6   | 440.7   | 434.8   |
| 80°   | 259.7   | 269.6   | 273.4   | 316.8   | 377.7   | 428.9   | 379.6   | 385.5   | 387.6   | 387.6   | 379.6   |
| 82.5° | 198.7   | 216.5   | 226.2   | 273.4   | 289.2   | 360.0   | 330.5   | 336.4   | 330.5   | 318.7   | 314.7   |
| 85°   | 137.6   | 161.2   | 173.0   | 208.5   | 218.4   | 277.4   | 275.5   | 275.5   | 263.7   | 247.9   | 246.0   |
| 87.5° | 74.8    | 88.5    | 96.3    | 123.9   | 149.4   | 186.9   | 202.5   | 196.6   | 186.9   | 177.0   | 178.9   |
| 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°    | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 |
| 2.5°  | 10847.0 | 11114.6 | 11541.5 | 11868.1 | 12196.6 | 12513.3 | 12855.6 | 13117.2 | 13339.5 | 13426.1 | 13689.6 |
| 5°    | 8722.5  | 9056.9  | 9460.2  | 10188.1 | 10703.5 | 11271.9 | 11929.0 | 12798.5 | 13133.0 | 13595.2 | 14352.7 |
| 7.5°  | 6167.1  | 6470.2  | 7119.3  | 7707.4  | 8437.2  | 9241.8  | 10129.1 | 11329.0 | 11767.7 | 12509.3 | 13742.7 |
| 10°   | 4605.2  | 4957.3  | 5478.6  | 5974.3  | 6617.7  | 7439.9  | 8458.9  | 9800.5  | 10333.6 | 11138.2 | 12558.5 |
| 12.5° | 3710.1  | 4125.2  | 4677.9  | 5144.2  | 5641.9  | 6222.2  | 7211.6  | 8683.2  | 9397.3  | 10101.4 | 11537.6 |
| 15°   | 2850.5  | 3285.2  | 3798.6  | 4390.8  | 4939.6  | 5565.1  | 6601.9  | 8211.1  | 9033.3  | 9767.1  | 10992.7 |
| 17.5° | 1973.1  | 2344.9  | 2992.1  | 3609.8  | 4312.0  | 5112.7  | 6432.7  | 8311.4  | 9293.0  | 10138.9 | 11087.1 |
| 20°   | 1398.6  | 1611.1  | 2142.2  | 2858.3  | 3733.7  | 4738.9  | 6401.3  | 8838.5  | 10115.2 | 11081.2 | 11692.9 |
| 22.5° | 1176.4  | 1255.1  | 1563.9  | 2220.9  | 3232.1  | 4459.6  | 6511.5  | 9578.2  | 11224.8 | 12458.2 | 12658.9 |
| 25°   | 1072.2  | 1119.4  | 1280.6  | 1742.9  | 2785.6  | 4257.0  | 6883.3  | 10679.9 | 12597.9 | 13835.3 | 13799.8 |
| 27.5° | 1015.0  | 1064.3  | 1170.5  | 1471.5  | 2449.1  | 4131.1  | 7255.1  | 11986.1 | 14167.6 | 15330.2 | 14889.7 |
| 30°   | 997.3   | 1064.3  | 1176.4  | 1386.8  | 2209.1  | 3932.5  | 7559.8  | 13133.0 | 15375.5 | 16339.5 | 15385.4 |
| 32.5° | 983.6   | 993.3   | 1044.6  | 1196.1  | 1981.0  | 3700.3  | 7766.4  | 14161.7 | 16557.8 | 17299.4 | 16099.5 |
| 35°   | 794.8   | 843.9   | 926.5   | 1072.2  | 1847.1  | 3560.6  | 7766.4  | 15049.0 | 17722.4 | 18269.2 | 16780.1 |
| 37.5° | 765.3   | 808.5   | 881.2   | 1005.1  | 1772.4  | 3491.7  | 7611.0  | 15904.8 | 18912.6 | 19368.9 | 17340.7 |
| 40°   | 749.5   | 784.9   | 853.8   | 954.1   | 1740.9  | 3413.0  | 7384.9  | 16660.1 | 20075.2 | 20470.6 | 17864.0 |
| 42.5° | 737.7   | 769.1   | 834.0   | 922.5   | 1699.6  | 3326.5  | 7201.9  | 17266.0 | 21084.3 | 21410.9 | 18363.6 |
| 45°   | 731.8   | 765.3   | 836.1   | 938.3   | 1617.0  | 3212.4  | 7140.8  | 17921.0 | 21914.4 | 22195.8 | 18904.7 |
| 47.5° | 731.8   | 771.2   | 845.8   | 971.8   | 1518.7  | 3094.3  | 7331.8  | 18784.6 | 22699.3 | 22837.1 | 19542.0 |
| 50°   | 725.9   | 769.1   | 873.4   | 938.3   | 1375.0  | 2944.9  | 7780.3  | 19872.5 | 23549.2 | 23564.9 | 20348.6 |
| 52.5° | 714.1   | 765.3   | 940.2   | 918.7   | 1209.8  | 2748.2  | 8386.0  | 21269.3 | 24806.2 | 24900.6 | 21611.5 |
| 55°   | 700.4   | 759.4   | 922.5   | 873.4   | 1074.1  | 2514.0  | 8881.9  | 22967.0 | 26572.7 | 26834.4 | 23468.6 |
| 57.5° | 682.7   | 751.4   | 893.0   | 810.4   | 985.5   | 2213.0  | 9060.9  | 24210.2 | 27806.2 | 28463.2 | 25561.6 |
| 60°   | 666.9   | 745.5   | 806.6   | 773.1   | 930.5   | 1959.3  | 8714.6  | 23964.3 | 27721.6 | 29138.1 | 27416.7 |
| 62.5° | 651.1   | 751.4   | 735.8   | 749.5   | 904.8   | 1796.0  | 7809.8  | 21995.1 | 26319.0 | 28441.6 | 28791.8 |
| 65°   | 633.4   | 698.3   | 694.5   | 729.9   | 898.9   | 1731.1  | 6474.0  | 19042.4 | 23608.2 | 26240.4 | 29116.4 |
| 67.5° | 609.7   | 645.2   | 665.0   | 704.2   | 918.7   | 1674.1  | 5224.9  | 15707.9 | 19841.1 | 22941.3 | 27424.5 |
| 70°   | 584.2   | 613.7   | 635.5   | 672.8   | 906.9   | 1648.5  | 4345.6  | 12387.4 | 15743.3 | 18802.4 | 24086.2 |
| 72.5° | 550.7   | 576.4   | 596.0   | 631.5   | 895.1   | 1634.7  | 3670.8  | 9975.6  | 11753.9 | 13967.0 | 19583.3 |
| 75°   | 511.5   | 535.1   | 548.8   | 584.2   | 857.6   | 1497.1  | 2885.9  | 8441.2  | 8795.3  | 9716.0  | 15597.9 |
| 77.5° | 466.2   | 483.9   | 495.7   | 535.1   | 759.4   | 1245.2  | 2087.2  | 6511.5  | 6830.2  | 7054.4  | 11958.5 |
| 80°   | 413.1   | 430.8   | 436.7   | 474.0   | 629.6   | 973.7   | 1361.3  | 4809.8  | 5108.8  | 5159.9  | 7809.8  |
| 82.5° | 352.2   | 369.9   | 369.9   | 405.3   | 515.3   | 700.4   | 893.0   | 3295.0  | 3354.0  | 3527.2  | 5519.9  |
| 85°   | 283.3   | 297.0   | 297.0   | 314.7   | 399.4   | 523.3   | 613.7   | 1654.4  | 1636.7  | 1868.9  | 4782.3  |
| 87.5° | 202.5   | 212.5   | 222.4   | 226.2   | 285.2   | 346.3   | 369.9   | 503.5   | 332.4   | 381.7   | 3070.7  |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 | 12090.3 |
| 2.5°  | 13888.4 | 14000.5 | 13886.5 | 13803.7 | 13447.7 | 13154.6 | 12763.1 | 12562.4 |
| 5°    | 14928.9 | 15214.3 | 15117.8 | 14771.7 | 14028.1 | 13192.0 | 12241.9 | 11813.0 |
| 7.5°  | 14803.1 | 15465.9 | 15481.7 | 14834.5 | 13738.8 | 12507.4 | 11220.8 | 10611.0 |
| 10°   | 13823.4 | 14671.4 | 14913.3 | 14285.7 | 13123.1 | 11746.0 | 10270.7 | 9574.3  |
| 12.5° | 12729.7 | 13559.8 | 13744.7 | 13528.4 | 12556.5 | 11173.6 | 9676.5  | 8994.0  |
| 15°   | 11834.6 | 12206.5 | 12426.7 | 12615.6 | 12070.6 | 10945.5 | 9643.1  | 8893.7  |
| 17.5° | 11289.6 | 11248.4 | 11311.3 | 11639.8 | 11732.3 | 11207.0 | 10154.7 | 9328.4  |
| 20°   | 11093.0 | 10461.5 | 10445.7 | 10898.2 | 11573.0 | 11830.7 | 11153.9 | 10162.5 |
| 22.5° | 11201.1 | 10178.3 | 10048.3 | 10585.5 | 11657.5 | 12729.7 | 12464.1 | 11332.9 |
| 25°   | 11574.9 | 10201.9 | 10097.5 | 10616.9 | 11964.4 | 13687.7 | 13878.5 | 12847.7 |
| 27.5° | 12163.1 | 10351.3 | 10213.7 | 10746.7 | 12371.7 | 14492.2 | 15271.2 | 14315.2 |
| 30°   | 12721.8 | 10611.0 | 10439.8 | 11002.5 | 12743.5 | 14810.9 | 16125.0 | 15460.0 |
| 32.5° | 13400.4 | 11096.9 | 10795.9 | 11472.7 | 13203.8 | 15318.4 | 16886.3 | 16408.3 |
| 35°   | 14065.4 | 11789.4 | 11415.6 | 12198.6 | 13717.2 | 15950.0 | 17755.8 | 17620.1 |
| 37.5° | 14795.3 | 12694.3 | 12385.4 | 13136.9 | 14419.5 | 16546.0 | 18865.4 | 19040.4 |
| 40°   | 15574.3 | 13894.3 | 13528.4 | 14506.1 | 15509.4 | 17293.5 | 20024.0 | 20445.0 |
| 42.5° | 16359.2 | 15226.1 | 14789.4 | 15780.8 | 16707.3 | 18031.3 | 21015.5 | 21639.1 |
| 45°   | 17258.1 | 16671.9 | 16465.4 | 17537.4 | 17858.1 | 18733.5 | 21747.3 | 22522.3 |
| 47.5° | 18304.6 | 18312.5 | 18645.0 | 19073.8 | 19018.8 | 19528.2 | 22483.0 | 23311.1 |
| 50°   | 19526.3 | 20360.4 | 21094.1 | 21379.5 | 20214.8 | 20382.0 | 23504.0 | 24367.5 |
| 52.5° | 20993.8 | 22809.5 | 23718.3 | 23531.5 | 21503.4 | 21424.6 | 25121.0 | 25823.3 |
| 55°   | 22829.1 | 25402.3 | 26305.3 | 26171.4 | 22984.7 | 22844.9 | 27135.4 | 27544.6 |
| 57.5° | 24953.7 | 27914.4 | 28744.6 | 28142.6 | 24762.9 | 24402.9 | 28801.7 | 28888.1 |
| 60°   | 26820.6 | 29905.2 | 30633.0 | 29966.2 | 26557.0 | 26061.3 | 29842.2 | 29423.2 |
| 62.5° | 27859.3 | 30579.9 | 31091.4 | 30373.4 | 27786.5 | 27827.8 | 30070.5 | 29134.1 |
| 65°   | 27395.0 | 28874.4 | 29039.6 | 28980.6 | 27469.9 | 28852.7 | 29250.2 | 27798.3 |
| 67.5° | 24853.4 | 24562.2 | 24839.6 | 25223.3 | 24755.1 | 27503.3 | 26978.0 | 24888.8 |
| 70°   | 20376.1 | 18776.8 | 19329.6 | 19587.2 | 19799.8 | 23667.2 | 23415.5 | 20271.9 |
| 72.5° | 15355.9 | 13154.6 | 13591.3 | 13538.2 | 14521.7 | 18983.4 | 18210.2 | 14905.3 |
| 75°   | 10880.5 | 8919.3  | 8974.3  | 8952.7  | 10133.0 | 14852.2 | 13186.1 | 10197.9 |
| 77.5° | 7612.9  | 6462.2  | 6491.7  | 6613.7  | 6812.4  | 11201.1 | 9420.9  | 7449.8  |
| 80°   | 5234.7  | 4904.2  | 5067.5  | 5077.3  | 4721.2  | 7524.4  | 6960.0  | 5978.2  |
| 82.5° | 3898.9  | 3409.1  | 3369.8  | 3426.8  | 3700.3  | 6096.3  | 5348.8  | 4146.8  |
| 85°   | 3192.8  | 2018.3  | 1622.9  | 2034.1  | 3279.3  | 6037.3  | 3552.8  | 2187.5  |
| 87.5° | 1798.0  | 957.9   | 432.7   | 802.6   | 1308.2  | 3997.4  | 1026.8  | 279.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)