

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: P194658

Luminaire Tested: **GAN-AF-10-LED-U-SLR-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194658  
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-10-LED-U-SLR-7060-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5700K, 615mA 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: 34114 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

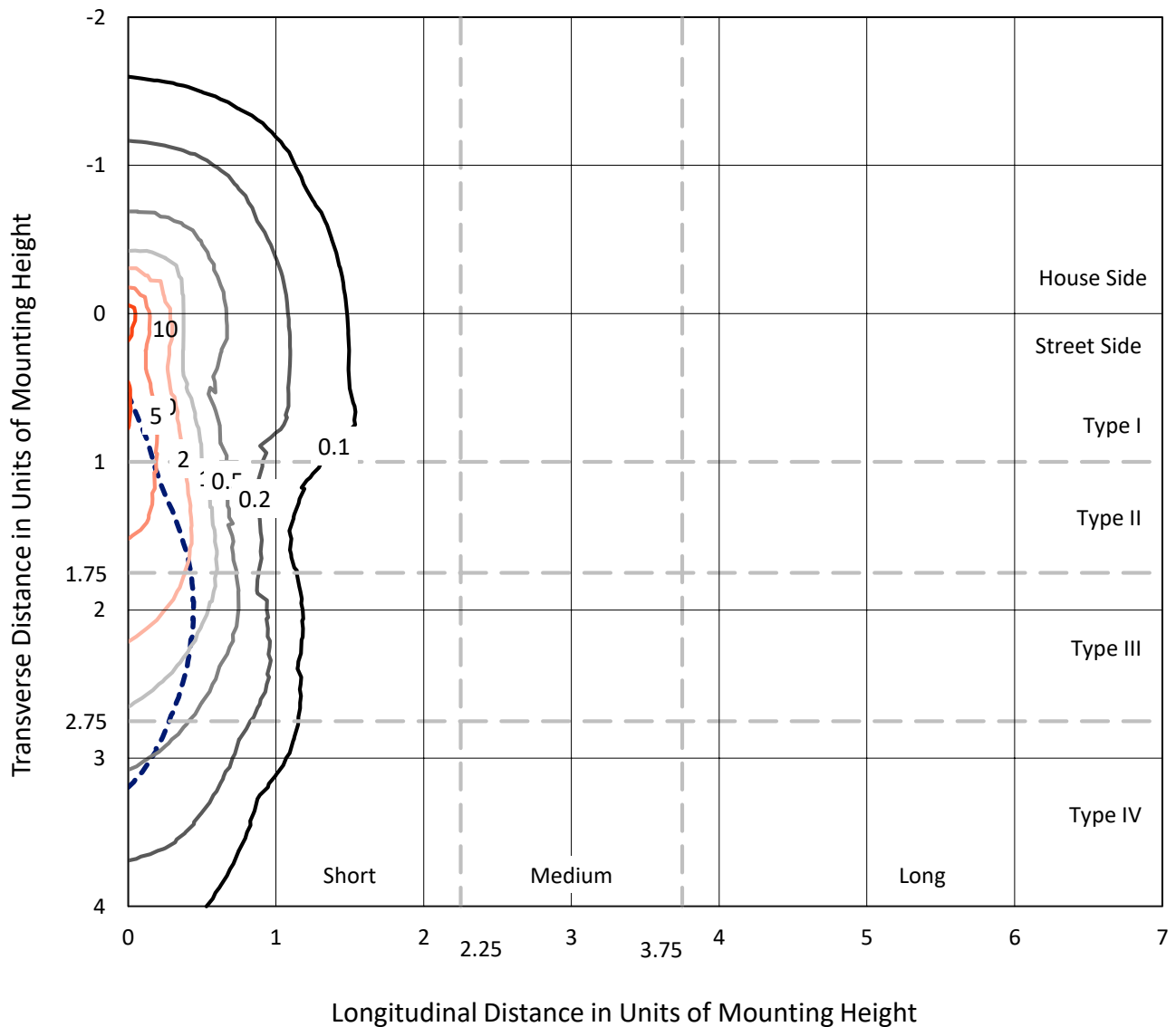
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

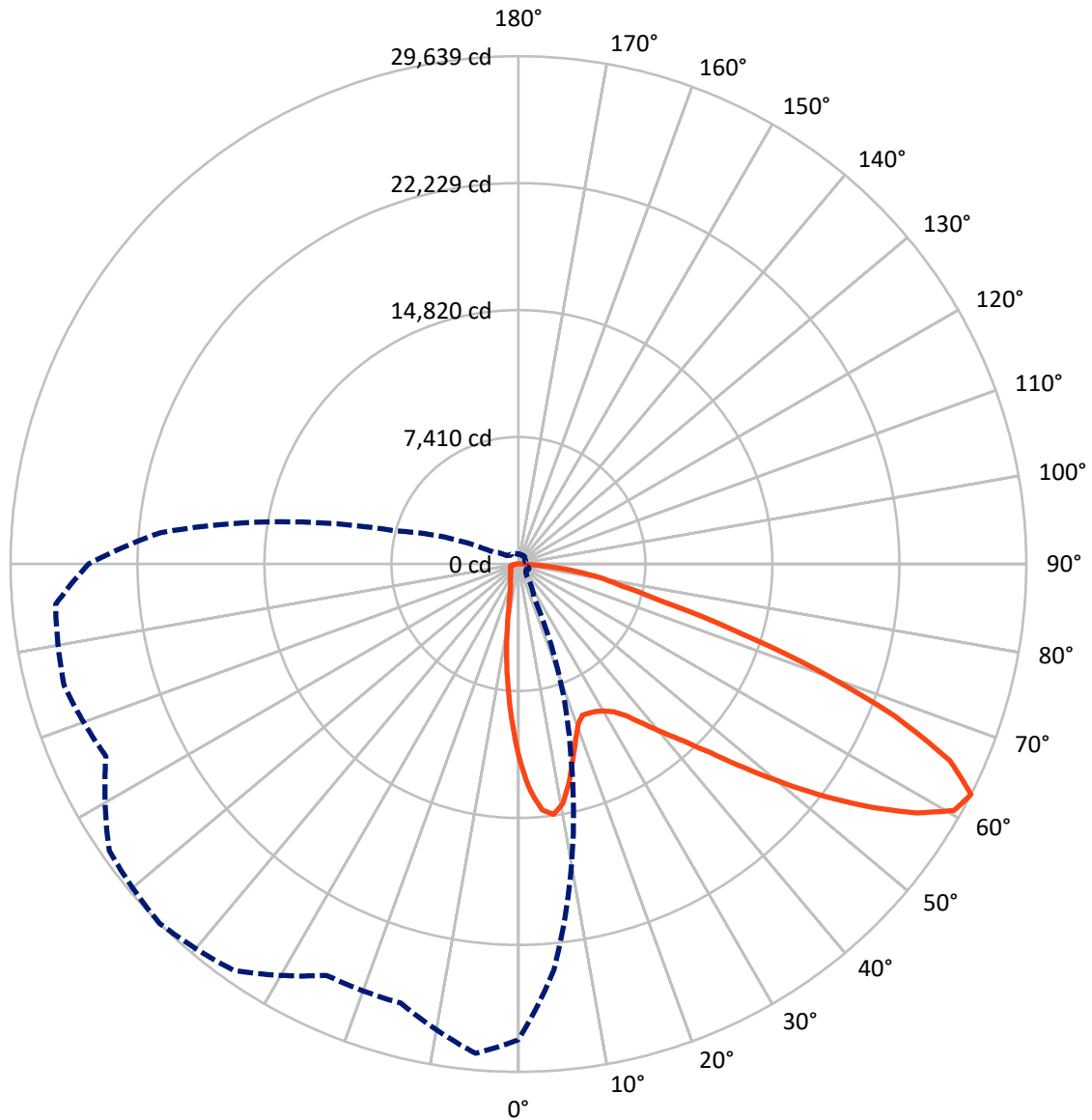
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 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    | 5645.4   | 0.0    | 5645.4  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 28468.6  | 0.0    | 28468.6 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 34114.0  | 0.0    | 34114.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 839.0   | 2.5       |
| 10°-20°   | 1538.5  | 4.5       |
| 20°-30°   | 2243.1  | 6.6       |
| 30°-40°   | 3454.8  | 10.1      |
| 40°-50°   | 5084.5  | 14.9      |
| 50°-60°   | 7457.9  | 21.9      |
| 60°-70°   | 8336.9  | 24.4      |
| 70°-80°   | 4081.6  | 12.0      |
| 80°-90°   | 1077.6  | 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°    | 34114.0 | 100.0     |
| 0°-180°   | 34114.0 | 100.0     |

**Coefficient of Utilization**



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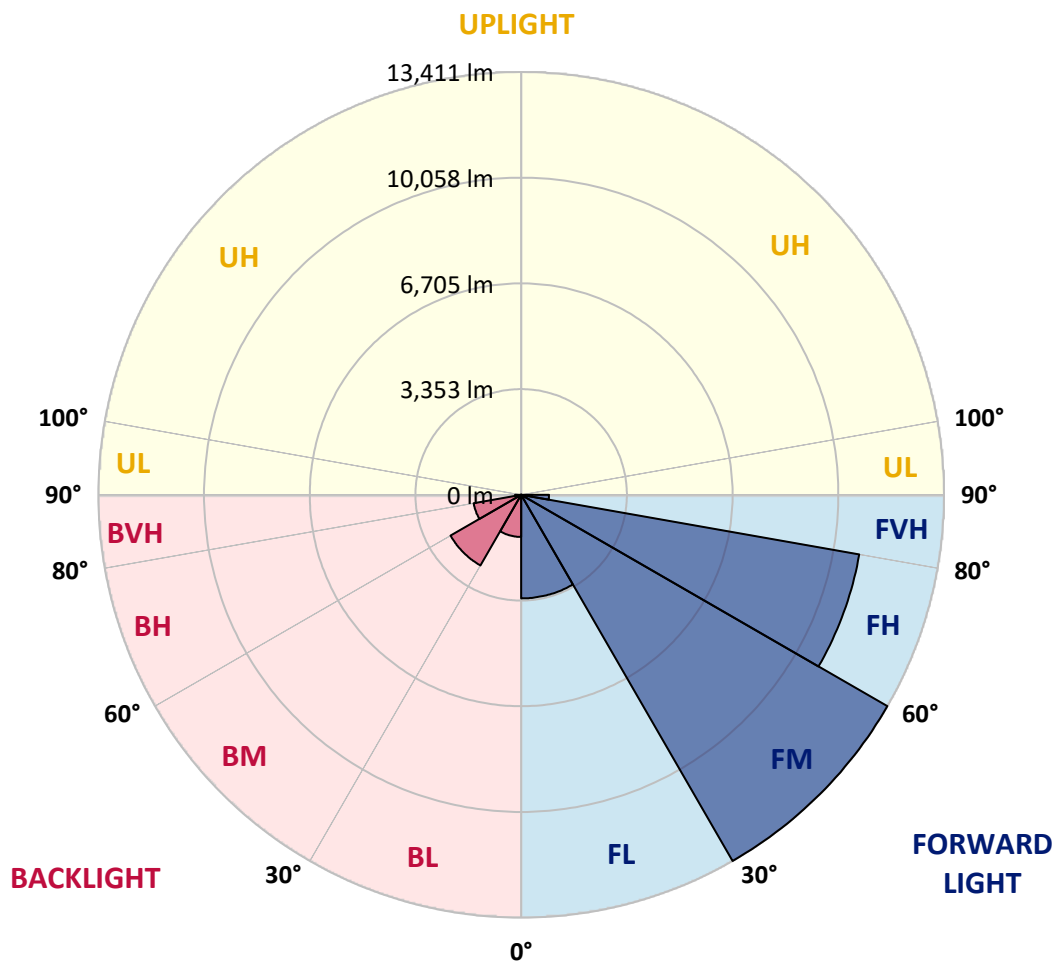
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3285.1  | 9.6       |                         |      |          |
| FM   | (30°-60°)   | 13410.5 | 39.3      |                         |      |          |
| FH   | (60°-80°)   | 10888.0 | 31.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 885.0   | 2.6       |                         |      | G5       |
| BL   | (0°-30°)    | 1335.6  | 3.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2586.7  | 7.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1530.5  | 4.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 192.6   | 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°    | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 |
| 2.5°  | 11975.6 | 11731.8 | 11326.8 | 10904.8 | 10647.9 | 10347.9 | 10113.5 | 9907.2  | 9494.6  | 9414.0  | 9487.1  |
| 5°    | 11261.1 | 10771.7 | 10008.4 | 9239.6  | 8727.6  | 8178.1  | 7750.6  | 7407.4  | 6884.2  | 6792.3  | 6903.0  |
| 7.5°  | 10115.3 | 9530.2  | 8521.3  | 7540.6  | 6816.7  | 6130.3  | 5669.0  | 5301.5  | 4892.6  | 4716.4  | 4727.6  |
| 10°   | 9127.0  | 8466.9  | 7274.3  | 6207.2  | 5614.6  | 5151.4  | 4763.2  | 4386.3  | 3971.9  | 3700.0  | 3624.9  |
| 12.5° | 8573.8  | 7814.3  | 6439.8  | 5487.1  | 4937.6  | 4450.1  | 4031.9  | 3628.7  | 3186.1  | 2908.6  | 2829.8  |
| 15°   | 8478.2  | 7653.1  | 6126.6  | 5025.8  | 4337.6  | 3720.6  | 3227.4  | 2777.3  | 2321.6  | 2096.6  | 2049.7  |
| 17.5° | 8892.6  | 7941.9  | 6025.3  | 4615.1  | 3773.1  | 3011.7  | 2406.0  | 1903.4  | 1532.1  | 1419.6  | 1410.2  |
| 20°   | 9687.8  | 8496.9  | 6012.2  | 4228.8  | 3216.1  | 2323.5  | 1676.5  | 1310.8  | 1147.7  | 1115.8  | 1117.7  |
| 22.5° | 10803.6 | 9357.7  | 6173.5  | 3938.1  | 2704.2  | 1732.8  | 1260.2  | 1097.0  | 1033.3  | 1003.3  | 1003.3  |
| 25°   | 12247.5 | 10542.9 | 6544.8  | 3726.2  | 2259.7  | 1384.0  | 1112.0  | 1014.5  | 954.5   | 933.9   | 937.6   |
| 27.5° | 13646.5 | 11696.2 | 6976.1  | 3559.3  | 1969.1  | 1256.4  | 1053.9  | 965.8   | 913.3   | 892.6   | 902.0   |
| 30°   | 14737.9 | 12720.1 | 7336.1  | 3332.4  | 1820.9  | 1220.8  | 1074.5  | 984.5   | 909.5   | 877.6   | 879.5   |
| 32.5° | 15641.8 | 13616.5 | 7638.1  | 3169.2  | 1689.6  | 1046.4  | 926.4   | 887.0   | 877.6   | 840.1   | 821.4   |
| 35°   | 16797.0 | 14593.5 | 7840.6  | 3173.0  | 1627.8  | 933.9   | 825.1   | 755.7   | 705.1   | 662.0   | 662.0   |
| 37.5° | 18151.0 | 15714.9 | 8056.3  | 3216.1  | 1605.3  | 868.3   | 789.5   | 720.1   | 673.2   | 632.0   | 624.5   |
| 40°   | 19489.9 | 16813.9 | 8253.2  | 3257.4  | 1592.1  | 828.9   | 761.4   | 697.6   | 654.5   | 613.2   | 602.0   |
| 42.5° | 20628.2 | 17717.8 | 8429.4  | 3278.0  | 1547.1  | 825.1   | 740.7   | 682.6   | 641.3   | 596.3   | 585.1   |
| 45°   | 21470.2 | 18475.4 | 8618.8  | 3309.9  | 1502.1  | 840.1   | 740.7   | 680.7   | 630.1   | 587.0   | 575.7   |
| 47.5° | 22222.2 | 19364.3 | 8935.8  | 3309.9  | 1447.7  | 812.0   | 765.1   | 682.6   | 628.2   | 583.2   | 573.8   |
| 50°   | 23229.2 | 20583.2 | 9535.9  | 3233.0  | 1370.8  | 782.0   | 806.4   | 675.1   | 611.3   | 575.7   | 564.5   |
| 52.5° | 24617.0 | 22145.3 | 10488.5 | 3099.9  | 1252.7  | 723.9   | 800.7   | 671.4   | 594.5   | 557.0   | 543.8   |
| 55°   | 26257.8 | 23818.1 | 11527.4 | 2944.2  | 1076.4  | 682.6   | 772.6   | 662.0   | 575.7   | 534.5   | 521.3   |
| 57.5° | 27538.7 | 24969.5 | 12258.8 | 2704.2  | 922.6   | 660.1   | 684.5   | 652.6   | 553.2   | 510.1   | 498.8   |
| 60°   | 28048.7 | 24924.5 | 12459.4 | 2383.5  | 847.6   | 641.3   | 598.2   | 731.4   | 534.5   | 491.3   | 478.2   |
| 62.5° | 27773.1 | 23773.1 | 11896.9 | 2158.5  | 830.8   | 617.0   | 560.7   | 677.0   | 519.5   | 478.2   | 459.4   |
| 65°   | 26499.8 | 21732.8 | 10406.0 | 2098.5  | 879.5   | 592.6   | 536.3   | 530.7   | 498.8   | 459.4   | 440.7   |
| 67.5° | 23726.2 | 18683.5 | 8331.9  | 2104.1  | 941.4   | 568.2   | 512.0   | 485.7   | 470.7   | 438.8   | 421.9   |
| 70°   | 19324.9 | 14771.7 | 6211.0  | 2119.1  | 973.3   | 540.1   | 485.7   | 457.6   | 440.7   | 408.8   | 397.6   |
| 72.5° | 14209.1 | 11384.9 | 4512.0  | 2021.6  | 978.9   | 508.2   | 450.1   | 425.7   | 408.8   | 375.1   | 365.7   |
| 75°   | 9721.5  | 8708.9  | 3129.9  | 1674.6  | 853.3   | 463.2   | 410.7   | 388.2   | 376.9   | 335.7   | 330.1   |
| 77.5° | 7101.7  | 6537.3  | 2002.8  | 1243.3  | 658.2   | 406.9   | 361.9   | 345.1   | 337.6   | 292.5   | 285.0   |
| 80°   | 5699.0  | 5172.1  | 1252.7  | 851.4   | 482.0   | 341.3   | 303.8   | 294.4   | 286.9   | 241.9   | 236.3   |
| 82.5° | 3953.1  | 3463.7  | 804.5   | 553.2   | 361.9   | 264.4   | 240.0   | 236.3   | 225.0   | 183.8   | 178.2   |
| 85°   | 2085.3  | 1880.9  | 510.1   | 376.9   | 262.5   | 181.9   | 166.9   | 166.9   | 161.3   | 121.9   | 118.1   |
| 87.5° | 266.3   | 433.2   | 258.8   | 196.9   | 144.4   | 80.6    | 80.6    | 78.8    | 84.4    | 69.4    | 60.0    |
| 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°    | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 |
| 2.5°  | 9314.6  | 9404.6  | 9318.3  | 9324.0  | 9419.6  | 9704.6  | 9834.0  | 9940.9  | 10055.3 | 10130.3 | 10164.1 |
| 5°    | 6751.1  | 6961.1  | 7032.3  | 7182.4  | 7403.7  | 7767.5  | 7911.9  | 8016.9  | 8086.3  | 8127.5  | 8144.4  |
| 7.5°  | 4617.0  | 4744.5  | 4887.0  | 5128.9  | 5610.9  | 5824.7  | 5920.3  | 5895.9  | 5817.2  | 5789.0  | 5760.9  |
| 10°   | 3480.5  | 3429.9  | 3403.7  | 3536.8  | 3926.9  | 4142.5  | 4210.0  | 4144.4  | 4101.3  | 4110.6  | 4157.5  |
| 12.5° | 2696.7  | 2608.5  | 2501.6  | 2486.6  | 2743.6  | 2936.7  | 2979.8  | 2983.6  | 3062.4  | 3131.7  | 3234.9  |
| 15°   | 1965.3  | 1955.9  | 1903.4  | 1871.5  | 2017.8  | 2175.3  | 2194.1  | 2227.8  | 2299.1  | 2349.7  | 2439.8  |
| 17.5° | 1385.8  | 1436.5  | 1477.7  | 1498.4  | 1609.0  | 1721.5  | 1700.9  | 1684.0  | 1670.9  | 1670.9  | 1714.0  |
| 20°   | 1117.7  | 1151.4  | 1203.9  | 1263.9  | 1376.5  | 1455.2  | 1404.6  | 1337.1  | 1288.3  | 1273.3  | 1278.9  |
| 22.5° | 1007.0  | 1033.3  | 1063.3  | 1115.8  | 1217.1  | 1271.4  | 1217.1  | 1168.3  | 1119.5  | 1102.7  | 1097.0  |
| 25°   | 950.8   | 984.5   | 1012.7  | 1052.0  | 1127.1  | 1164.6  | 1112.0  | 1076.4  | 1046.4  | 1025.8  | 1010.8  |
| 27.5° | 918.9   | 948.9   | 956.4   | 975.2   | 1038.9  | 1072.7  | 1046.4  | 1031.4  | 1012.7  | 993.9   | 975.2   |
| 30°   | 885.1   | 879.5   | 866.4   | 868.3   | 918.9   | 952.6   | 950.8   | 954.5   | 952.6   | 947.0   | 943.3   |
| 32.5° | 808.3   | 797.0   | 785.7   | 797.0   | 843.9   | 873.9   | 875.8   | 883.3   | 883.3   | 881.4   | 896.4   |
| 35°   | 673.2   | 693.9   | 707.0   | 740.7   | 797.0   | 823.3   | 812.0   | 793.2   | 759.5   | 738.9   | 737.0   |
| 37.5° | 622.6   | 626.3   | 648.9   | 695.7   | 757.6   | 782.0   | 765.1   | 722.0   | 699.5   | 695.7   | 701.4   |
| 40°   | 598.2   | 602.0   | 615.1   | 658.2   | 720.1   | 744.5   | 729.5   | 697.6   | 677.0   | 675.1   | 684.5   |
| 42.5° | 581.3   | 585.1   | 592.6   | 622.6   | 673.2   | 703.2   | 705.1   | 682.6   | 658.2   | 660.1   | 669.5   |
| 45°   | 572.0   | 573.8   | 572.0   | 587.0   | 633.8   | 669.5   | 684.5   | 669.5   | 648.9   | 652.6   | 663.9   |
| 47.5° | 570.1   | 564.5   | 557.0   | 560.7   | 609.5   | 645.1   | 663.9   | 658.2   | 648.9   | 652.6   | 662.0   |
| 50°   | 562.6   | 549.5   | 540.1   | 538.2   | 587.0   | 624.5   | 641.3   | 641.3   | 645.1   | 652.6   | 662.0   |
| 52.5° | 540.1   | 525.1   | 525.1   | 519.5   | 572.0   | 607.6   | 618.8   | 620.7   | 626.3   | 639.5   | 652.6   |
| 55°   | 512.0   | 506.3   | 512.0   | 502.6   | 560.7   | 594.5   | 600.1   | 603.8   | 607.6   | 618.8   | 637.6   |
| 57.5° | 487.6   | 480.1   | 493.2   | 489.5   | 551.3   | 581.3   | 581.3   | 588.8   | 588.8   | 603.8   | 618.8   |
| 60°   | 474.4   | 459.4   | 465.1   | 468.8   | 538.2   | 570.1   | 566.3   | 573.8   | 577.6   | 590.7   | 602.0   |
| 62.5° | 457.6   | 444.4   | 444.4   | 453.8   | 523.2   | 553.2   | 551.3   | 557.0   | 572.0   | 575.7   | 587.0   |
| 65°   | 436.9   | 431.3   | 425.7   | 436.9   | 508.2   | 534.5   | 536.3   | 543.8   | 557.0   | 560.7   | 570.1   |
| 67.5° | 416.3   | 418.2   | 406.9   | 418.2   | 495.1   | 515.7   | 515.7   | 530.7   | 536.3   | 543.8   | 553.2   |
| 70°   | 393.8   | 395.7   | 386.3   | 399.4   | 485.7   | 495.1   | 493.2   | 513.8   | 517.6   | 523.2   | 532.6   |
| 72.5° | 365.7   | 365.7   | 361.9   | 380.7   | 470.7   | 474.4   | 470.7   | 487.6   | 489.5   | 495.1   | 498.8   |
| 75°   | 335.7   | 335.7   | 331.9   | 358.2   | 461.3   | 451.9   | 440.7   | 453.8   | 457.6   | 461.3   | 461.3   |
| 77.5° | 296.3   | 300.0   | 300.0   | 331.9   | 429.4   | 442.6   | 405.1   | 412.6   | 418.2   | 420.1   | 414.4   |
| 80°   | 247.5   | 256.9   | 260.7   | 301.9   | 360.1   | 408.8   | 361.9   | 367.6   | 369.4   | 369.4   | 361.9   |
| 82.5° | 189.4   | 206.3   | 215.7   | 260.7   | 275.7   | 343.2   | 315.0   | 320.7   | 315.0   | 303.8   | 300.0   |
| 85°   | 131.3   | 153.8   | 165.0   | 198.8   | 208.2   | 264.4   | 262.5   | 262.5   | 251.3   | 236.3   | 234.4   |
| 87.5° | 71.3    | 84.4    | 91.9    | 118.1   | 142.5   | 178.2   | 193.2   | 187.5   | 178.2   | 168.8   | 170.7   |
| 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°    | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 |
| 2.5°  | 10340.4 | 10595.4 | 11002.3 | 11313.6 | 11626.8 | 11928.7 | 12255.0 | 12504.4 | 12716.4 | 12798.9 | 13050.2 |
| 5°    | 8315.0  | 8633.8  | 9018.3  | 9712.1  | 10203.5 | 10745.4 | 11371.8 | 12200.7 | 12519.5 | 12960.1 | 13682.1 |
| 7.5°  | 5879.0  | 6167.8  | 6786.7  | 7347.4  | 8043.1  | 8810.1  | 9655.9  | 10799.8 | 11218.0 | 11925.0 | 13100.8 |
| 10°   | 4390.1  | 4725.7  | 5222.7  | 5695.3  | 6308.5  | 7092.4  | 8063.8  | 9342.7  | 9850.9  | 10617.9 | 11971.9 |
| 12.5° | 3536.8  | 3932.5  | 4459.4  | 4903.9  | 5378.3  | 5931.5  | 6874.8  | 8277.5  | 8958.3  | 9629.6  | 10998.6 |
| 15°   | 2717.3  | 3131.7  | 3621.2  | 4185.7  | 4708.9  | 5305.2  | 6293.5  | 7827.5  | 8611.3  | 9310.8  | 10479.1 |
| 17.5° | 1880.9  | 2235.3  | 2852.3  | 3441.2  | 4110.6  | 4873.9  | 6132.2  | 7923.1  | 8858.9  | 9665.3  | 10569.1 |
| 20°   | 1333.3  | 1535.9  | 2042.2  | 2724.8  | 3559.3  | 4517.6  | 6102.2  | 8425.7  | 9642.8  | 10563.5 | 11146.7 |
| 22.5° | 1121.4  | 1196.4  | 1490.9  | 2117.2  | 3081.1  | 4251.3  | 6207.2  | 9130.8  | 10700.4 | 11876.2 | 12067.5 |
| 25°   | 1022.0  | 1067.0  | 1220.8  | 1661.5  | 2655.4  | 4058.1  | 6561.6  | 10181.0 | 12009.4 | 13188.9 | 13155.2 |
| 27.5° | 967.7   | 1014.5  | 1115.8  | 1402.7  | 2334.7  | 3938.1  | 6916.1  | 11426.2 | 13505.9 | 14614.2 | 14194.1 |
| 30°   | 950.8   | 1014.5  | 1121.4  | 1322.1  | 2106.0  | 3748.7  | 7206.7  | 12519.5 | 14657.3 | 15576.2 | 14666.7 |
| 32.5° | 937.6   | 947.0   | 995.8   | 1140.2  | 1888.4  | 3527.4  | 7403.7  | 13500.2 | 15784.3 | 16491.3 | 15347.4 |
| 35°   | 757.6   | 804.5   | 883.3   | 1022.0  | 1760.9  | 3394.3  | 7403.7  | 14346.0 | 16894.5 | 17415.8 | 15996.2 |
| 37.5° | 729.5   | 770.7   | 840.1   | 958.3   | 1689.6  | 3328.6  | 7255.5  | 15161.7 | 18029.1 | 18464.1 | 16530.7 |
| 40°   | 714.5   | 748.2   | 813.9   | 909.5   | 1659.6  | 3253.6  | 7039.8  | 15881.9 | 19137.4 | 19514.3 | 17029.5 |
| 42.5° | 703.2   | 733.2   | 795.1   | 879.5   | 1620.3  | 3171.1  | 6865.4  | 16459.4 | 20099.4 | 20410.7 | 17505.9 |
| 45°   | 697.6   | 729.5   | 797.0   | 894.5   | 1541.5  | 3062.4  | 6807.3  | 17083.9 | 20890.8 | 21158.9 | 18021.6 |
| 47.5° | 697.6   | 735.1   | 806.4   | 926.4   | 1447.7  | 2949.8  | 6989.2  | 17907.2 | 21639.0 | 21770.3 | 18629.2 |
| 50°   | 692.0   | 733.2   | 832.6   | 894.5   | 1310.8  | 2807.3  | 7416.8  | 18944.2 | 22449.1 | 22464.1 | 19398.0 |
| 52.5° | 680.7   | 729.5   | 896.4   | 875.8   | 1153.3  | 2619.8  | 7994.4  | 20275.7 | 23647.4 | 23737.5 | 20602.0 |
| 55°   | 667.6   | 723.9   | 879.5   | 832.6   | 1023.9  | 2396.6  | 8466.9  | 21894.0 | 25331.4 | 25580.9 | 22372.2 |
| 57.5° | 650.7   | 716.4   | 851.4   | 772.6   | 939.5   | 2109.7  | 8637.6  | 23079.2 | 26507.3 | 27133.6 | 24367.5 |
| 60°   | 635.7   | 710.7   | 768.9   | 737.0   | 887.0   | 1867.8  | 8307.5  | 22844.8 | 26426.6 | 27776.8 | 26135.9 |
| 62.5° | 620.7   | 716.4   | 701.4   | 714.5   | 862.6   | 1712.1  | 7444.9  | 20967.6 | 25089.5 | 27113.0 | 27446.8 |
| 65°   | 603.8   | 665.7   | 662.0   | 695.7   | 857.0   | 1650.3  | 6171.6  | 18152.8 | 22505.4 | 25014.5 | 27756.2 |
| 67.5° | 581.3   | 615.1   | 633.8   | 671.4   | 875.8   | 1595.9  | 4980.8  | 14974.2 | 18914.2 | 21869.7 | 26143.5 |
| 70°   | 557.0   | 585.1   | 605.7   | 641.3   | 864.5   | 1571.5  | 4142.5  | 11808.7 | 15008.0 | 17924.0 | 22961.1 |
| 72.5° | 525.1   | 549.5   | 568.2   | 602.0   | 853.3   | 1558.4  | 3499.3  | 9509.6  | 11204.9 | 13314.6 | 18668.5 |
| 75°   | 487.6   | 510.1   | 523.2   | 557.0   | 817.6   | 1427.1  | 2751.1  | 8046.9  | 8384.4  | 9262.1  | 14869.2 |
| 77.5° | 444.4   | 461.3   | 472.6   | 510.1   | 723.9   | 1187.1  | 1989.7  | 6207.2  | 6511.0  | 6724.8  | 11399.9 |
| 80°   | 393.8   | 410.7   | 416.3   | 451.9   | 600.1   | 928.3   | 1297.7  | 4585.1  | 4870.1  | 4918.9  | 7444.9  |
| 82.5° | 335.7   | 352.6   | 352.6   | 386.3   | 491.3   | 667.6   | 851.4   | 3141.1  | 3197.4  | 3362.4  | 5262.1  |
| 85°   | 270.0   | 283.2   | 283.2   | 300.0   | 380.7   | 498.8   | 585.1   | 1577.1  | 1560.2  | 1781.5  | 4558.8  |
| 87.5° | 193.2   | 202.5   | 211.9   | 215.7   | 271.9   | 330.1   | 352.6   | 480.1   | 316.9   | 363.8   | 2927.3  |
| 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°    | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 | 11525.5 |
| 2.5°  | 13239.6 | 13346.5 | 13237.7 | 13158.9 | 12819.5 | 12540.1 | 12166.9 | 11975.6 |
| 5°    | 14231.6 | 14503.5 | 14411.6 | 14081.6 | 13372.7 | 12575.7 | 11669.9 | 11261.1 |
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| 22.5° | 10677.9 | 9702.8  | 9579.0  | 10090.9 | 11113.0 | 12135.0 | 11881.9 | 10803.6 |
| 25°   | 11034.2 | 9725.3  | 9625.9  | 10121.0 | 11405.5 | 13048.3 | 13230.2 | 12247.5 |
| 27.5° | 11594.9 | 9867.8  | 9736.5  | 10244.7 | 11793.7 | 13815.3 | 14557.9 | 13646.5 |
| 30°   | 12127.5 | 10115.3 | 9952.2  | 10488.5 | 12148.1 | 14119.1 | 15371.8 | 14737.9 |
| 32.5° | 12774.5 | 10578.5 | 10291.6 | 10936.7 | 12587.0 | 14602.9 | 16097.5 | 15641.8 |
| 35°   | 13408.3 | 11238.6 | 10882.3 | 11628.7 | 13076.4 | 15204.9 | 16926.4 | 16797.0 |
| 37.5° | 14104.1 | 12101.3 | 11806.8 | 12523.2 | 13745.9 | 15773.1 | 17984.1 | 18151.0 |
| 40°   | 14846.7 | 13245.2 | 12896.4 | 13828.4 | 14784.8 | 16485.7 | 19088.6 | 19489.9 |
| 42.5° | 15594.9 | 14514.8 | 14098.4 | 15043.6 | 15926.9 | 17188.9 | 20033.7 | 20628.2 |
| 45°   | 16451.9 | 15893.1 | 15696.2 | 16718.2 | 17023.9 | 17858.4 | 20731.4 | 21470.2 |
| 47.5° | 17449.6 | 17457.1 | 17774.0 | 18182.8 | 18130.3 | 18616.0 | 21432.7 | 22222.2 |
| 50°   | 18614.2 | 19409.3 | 20108.8 | 20380.7 | 19270.5 | 19429.9 | 22406.0 | 23229.2 |
| 52.5° | 20013.1 | 21744.0 | 22610.4 | 22432.2 | 20498.8 | 20423.8 | 23947.5 | 24617.0 |
| 55°   | 21762.8 | 24215.7 | 25076.4 | 24948.9 | 21910.9 | 21777.8 | 25867.8 | 26257.8 |
| 57.5° | 23788.1 | 26610.4 | 27401.8 | 26827.9 | 23606.2 | 23263.0 | 27456.2 | 27538.7 |
| 60°   | 25567.7 | 28508.2 | 29202.1 | 28566.3 | 25316.4 | 24843.9 | 28448.2 | 28048.7 |
| 62.5° | 26557.9 | 29151.4 | 29639.0 | 28954.5 | 26488.5 | 26527.9 | 28665.7 | 27773.1 |
| 65°   | 26115.3 | 27525.5 | 27683.1 | 27626.8 | 26186.6 | 27504.9 | 27883.7 | 26499.8 |
| 67.5° | 23692.4 | 23414.9 | 23679.3 | 24045.0 | 23598.7 | 26218.5 | 25717.8 | 23726.2 |
| 70°   | 19424.3 | 17899.7 | 18426.6 | 18672.3 | 18874.8 | 22561.6 | 22321.6 | 19324.9 |
| 72.5° | 14638.5 | 12540.1 | 12956.4 | 12905.8 | 13843.4 | 18096.6 | 17359.6 | 14209.1 |
| 75°   | 10372.2 | 8502.6  | 8555.1  | 8534.5  | 9659.6  | 14158.5 | 12570.1 | 9721.5  |
| 77.5° | 7257.4  | 6160.3  | 6188.5  | 6304.7  | 6494.1  | 10677.9 | 8980.8  | 7101.7  |
| 80°   | 4990.2  | 4675.1  | 4830.8  | 4840.1  | 4500.7  | 7173.0  | 6634.8  | 5699.0  |
| 82.5° | 3716.8  | 3249.9  | 3212.4  | 3266.8  | 3527.4  | 5811.5  | 5098.9  | 3953.1  |
| 85°   | 3043.6  | 1924.0  | 1547.1  | 1939.1  | 3126.1  | 5755.3  | 3386.8  | 2085.3  |
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| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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