

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: P194734

Luminaire Tested: **GAN-AF-06-LED-U-T2R-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-06-LED-U-T2R-7060-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24437 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 193  
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

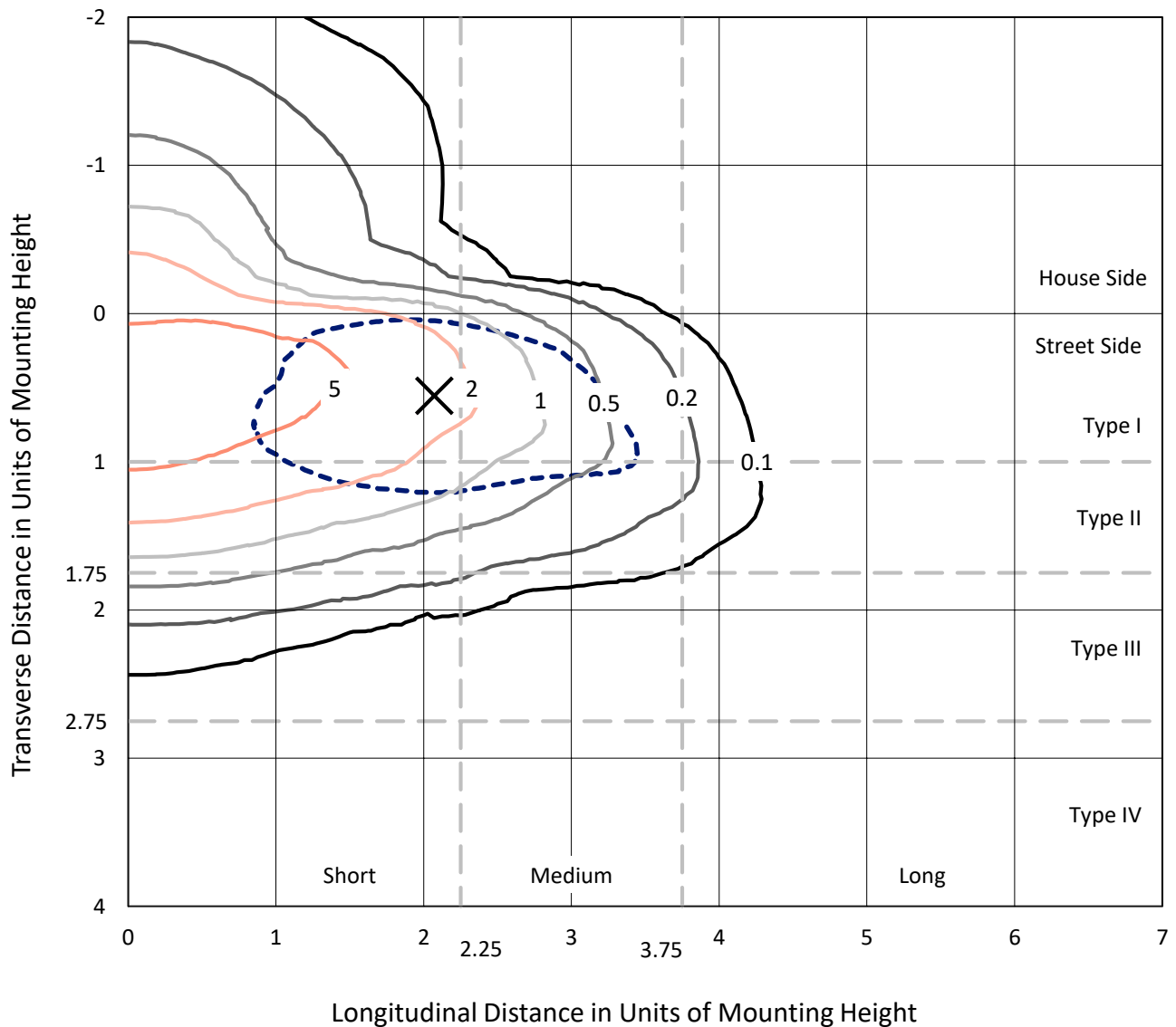


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### Iso-Footcandle Lines of Horizontal Illumination

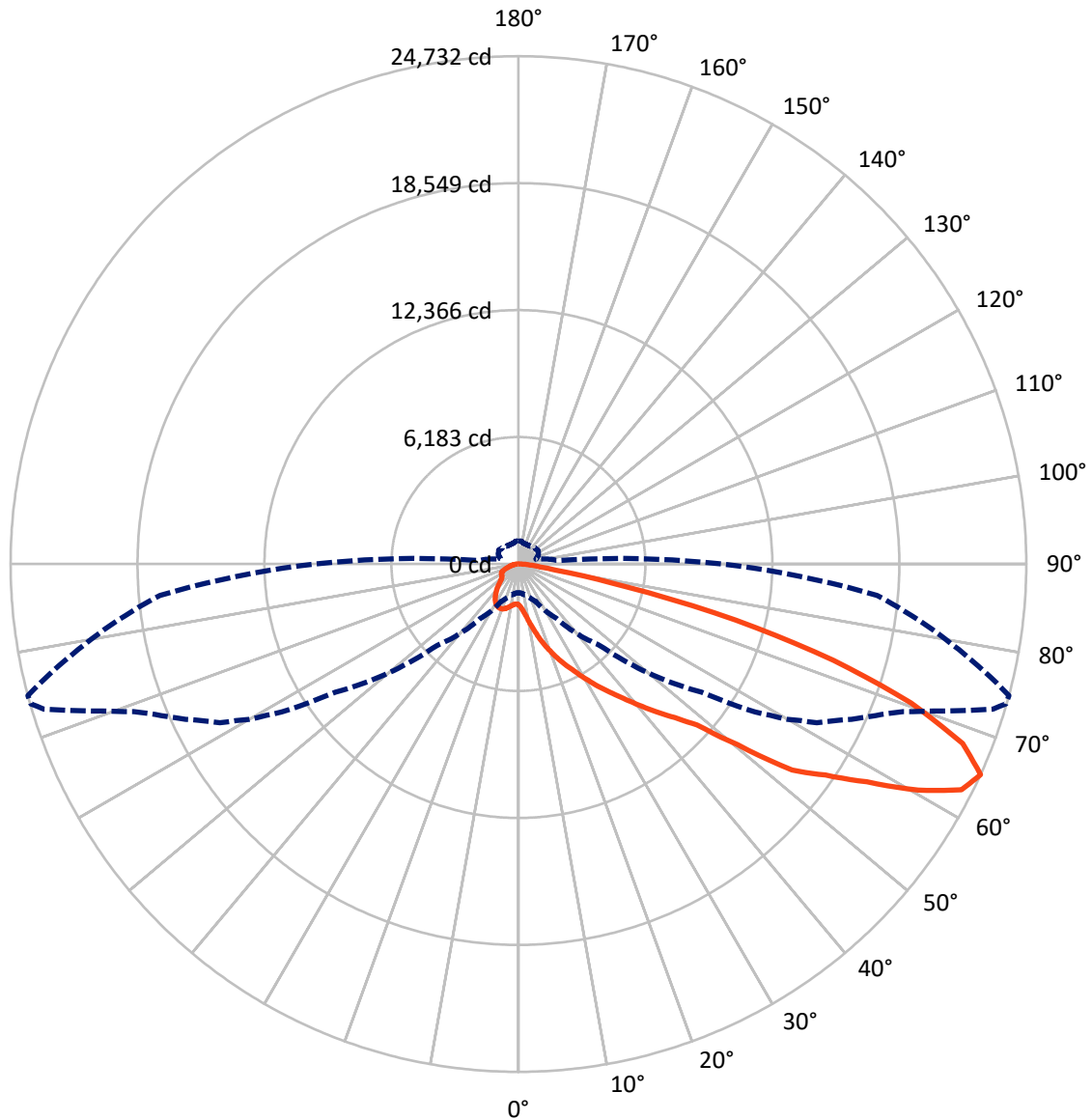
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3767.6   | 0.0    | 3767.6  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 20669.4  | 0.0    | 20669.4 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 24437.0  | 0.0    | 24437.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 245.5   | 1.0       |
| 10°-20°   | 959.1   | 3.9       |
| 20°-30°   | 1967.8  | 8.1       |
| 30°-40°   | 3310.7  | 13.5      |
| 40°-50°   | 4574.5  | 18.7      |
| 50°-60°   | 5710.3  | 23.4      |
| 60°-70°   | 5138.7  | 21.0      |
| 70°-80°   | 2154.1  | 8.8       |
| 80°-90°   | 376.3   | 1.5       |
| 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°    | 24437.0 | 100.0     |
| 0°-180°   | 24437.0 | 100.0     |

**Coefficient of Utilization**



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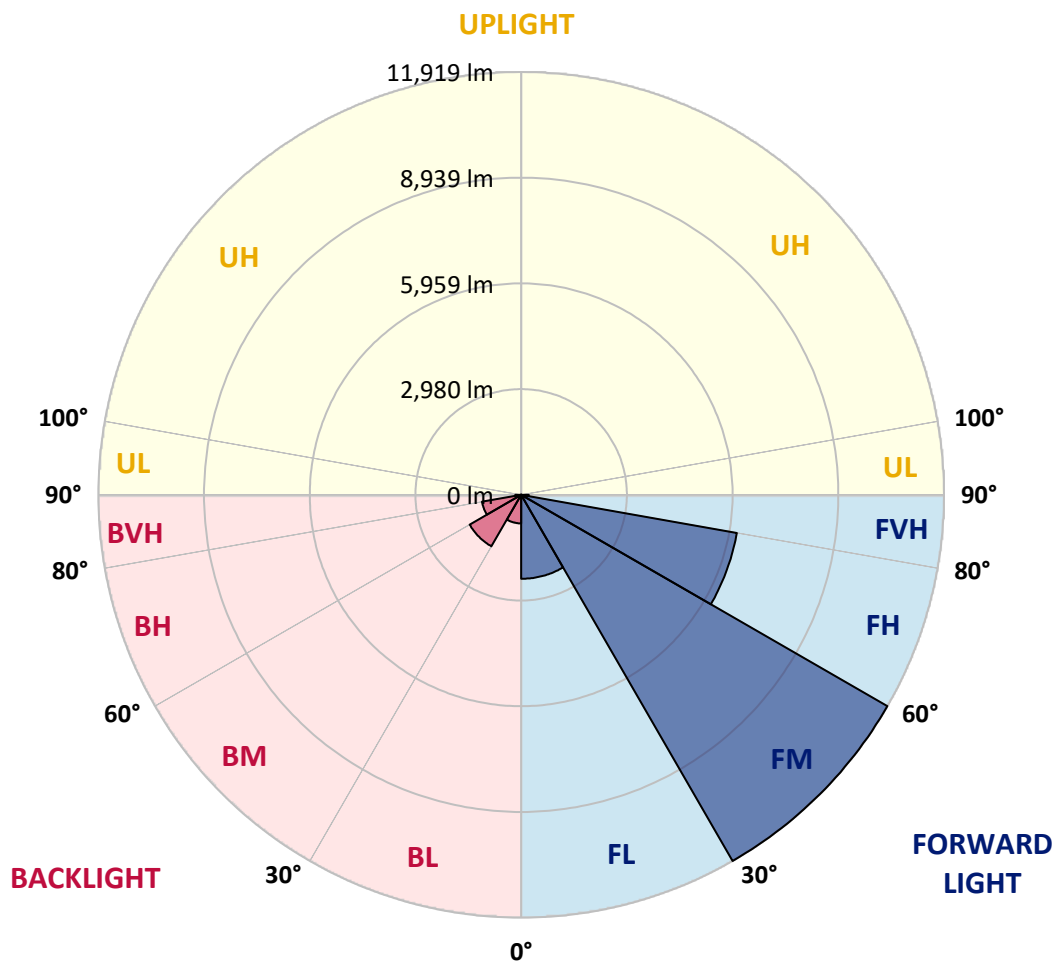
CATALOG NUMBER: GAN-AF-06-LED-U-T2R-7060-600

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2366.7  | 9.7       |                         |      |         |
| FM (30°-60°)   | 11918.5 | 48.8      |                         |      |         |
| FH (60°-80°)   | 6172.7  | 25.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 211.5   | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 805.7   | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1677.0  | 6.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 1120.1  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 164.8   | 0.7       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  |
| 2.5°  | 2521.5  | 2493.7  | 2500.7  | 2454.4  | 2397.7  | 2323.7  | 2241.6  | 2240.4  | 2241.6  | 2233.5  | 2203.4  |
| 5°    | 3496.6  | 3463.0  | 3450.3  | 3346.2  | 3193.5  | 2976.1  | 2740.1  | 2714.7  | 2704.3  | 2677.7  | 2616.3  |
| 7.5°  | 4207.9  | 4189.4  | 4169.7  | 4091.1  | 3952.3  | 3709.4  | 3392.5  | 3338.1  | 3286.1  | 3273.3  | 3203.9  |
| 10°   | 4667.1  | 4662.5  | 4620.8  | 4600.0  | 4513.3  | 4302.8  | 3993.9  | 3941.9  | 3885.2  | 3865.5  | 3792.7  |
| 12.5° | 5030.3  | 5029.1  | 5009.5  | 5015.2  | 4940.1  | 4787.4  | 4521.4  | 4473.9  | 4432.3  | 4372.1  | 4320.1  |
| 15°   | 5281.3  | 5282.4  | 5311.4  | 5343.7  | 5332.2  | 5229.2  | 4979.4  | 4958.6  | 4922.7  | 4881.1  | 4819.8  |
| 17.5° | 5487.2  | 5492.9  | 5523.0  | 5582.0  | 5645.6  | 5637.5  | 5439.7  | 5422.4  | 5391.2  | 5334.5  | 5302.1  |
| 20°   | 5952.1  | 5974.1  | 5916.3  | 5916.3  | 5923.2  | 5954.5  | 5859.6  | 5845.7  | 5801.8  | 5771.7  | 5746.3  |
| 22.5° | 6737.5  | 6763.0  | 6632.2  | 6499.2  | 6368.5  | 6273.7  | 6178.8  | 6196.2  | 6166.1  | 6145.3  | 6130.3  |
| 25°   | 7757.7  | 7777.3  | 7565.7  | 7341.3  | 7075.2  | 6728.3  | 6493.5  | 6483.0  | 6466.8  | 6454.1  | 6447.2  |
| 27.5° | 8717.7  | 8725.8  | 8525.7  | 8197.2  | 7888.4  | 7389.9  | 6812.7  | 6800.0  | 6780.3  | 6756.0  | 6735.2  |
| 30°   | 9538.9  | 9536.6  | 9330.7  | 9017.3  | 8686.5  | 8134.7  | 7297.3  | 7258.0  | 7200.2  | 7134.2  | 7083.3  |
| 32.5° | 10250.3 | 10246.8 | 10021.2 | 9696.2  | 9349.2  | 8872.7  | 7961.2  | 7880.3  | 7790.1  | 7661.7  | 7584.2  |
| 35°   | 10810.1 | 10807.8 | 10594.9 | 10256.0 | 9858.2  | 9567.8  | 8722.3  | 8622.9  | 8508.3  | 8336.0  | 8216.9  |
| 37.5° | 11021.7 | 11021.7 | 10902.6 | 10671.3 | 10319.7 | 10120.7 | 9567.8  | 9447.5  | 9324.9  | 9129.5  | 8995.3  |
| 40°   | 10898.0 | 10900.3 | 10925.7 | 10883.0 | 10711.8 | 10559.1 | 10356.7 | 10285.0 | 10179.7 | 10003.9 | 9863.9  |
| 42.5° | 10482.7 | 10495.5 | 10664.3 | 10871.4 | 10957.0 | 10932.7 | 11056.4 | 11024.1 | 10950.0 | 10814.7 | 10703.7 |
| 45°   | 9956.5  | 9995.8  | 10180.9 | 10571.8 | 11025.2 | 11255.4 | 11642.9 | 11646.3 | 11632.5 | 11559.6 | 11474.0 |
| 47.5° | 9233.6  | 9289.1  | 9533.1  | 10061.7 | 10865.6 | 11568.8 | 12238.5 | 12269.8 | 12298.7 | 12251.3 | 12211.9 |
| 50°   | 8273.5  | 8339.5  | 8705.0  | 9405.9  | 10540.6 | 11893.9 | 13364.0 | 13505.1 | 13636.9 | 13620.7 | 13647.4 |
| 52.5° | 7245.3  | 7322.8  | 7770.4  | 8551.1  | 9981.9  | 11969.0 | 14083.4 | 14313.6 | 14543.8 | 14732.3 | 14932.4 |
| 55°   | 6317.6  | 6276.0  | 6723.6  | 7546.0  | 9063.5  | 11630.1 | 14730.0 | 15007.6 | 15264.4 | 15495.7 | 15734.0 |
| 57.5° | 5060.4  | 5128.6  | 5577.4  | 6390.5  | 7847.9  | 10673.6 | 15175.3 | 15581.3 | 15950.2 | 16333.1 | 16670.8 |
| 60°   | 3699.0  | 3767.2  | 4254.2  | 5080.0  | 6528.2  | 9223.2  | 14835.2 | 15450.6 | 16041.6 | 16628.0 | 17086.1 |
| 62.5° | 2233.5  | 2284.4  | 2713.5  | 3500.0  | 5033.8  | 7503.2  | 13320.0 | 14127.4 | 14997.2 | 15698.1 | 16400.2 |
| 65°   | 1390.3  | 1419.2  | 1577.7  | 2010.3  | 3232.8  | 5601.7  | 10883.0 | 11763.2 | 12700.1 | 13589.5 | 14319.4 |
| 67.5° | 1138.1  | 1148.6  | 1177.5  | 1270.0  | 1775.5  | 3652.7  | 8100.0  | 8879.6  | 9725.1  | 10585.7 | 11397.7 |
| 70°   | 1023.6  | 1016.7  | 1016.7  | 1022.5  | 1138.1  | 1964.0  | 5303.3  | 5811.0  | 6515.4  | 7263.8  | 8006.4  |
| 72.5° | 924.2   | 917.2   | 904.5   | 887.2   | 928.8   | 1198.3  | 2741.3  | 3124.1  | 3631.9  | 4297.0  | 5008.3  |
| 75°   | 830.5   | 821.2   | 806.2   | 784.2   | 813.1   | 904.5   | 1316.3  | 1477.0  | 1724.6  | 2078.5  | 2475.2  |
| 77.5° | 733.3   | 721.8   | 707.9   | 691.7   | 728.7   | 703.2   | 771.5   | 829.3   | 924.2   | 1037.5  | 1186.7  |
| 80°   | 623.4   | 613.0   | 608.4   | 600.3   | 644.3   | 535.5   | 544.8   | 580.6   | 636.2   | 697.5   | 766.9   |
| 82.5° | 488.1   | 488.1   | 506.6   | 510.1   | 558.7   | 385.2   | 407.1   | 438.4   | 467.3   | 499.7   | 532.1   |
| 85°   | 321.5   | 323.9   | 386.3   | 410.6   | 440.7   | 259.1   | 305.4   | 315.8   | 338.9   | 357.4   | 371.3   |
| 87.5° | 100.6   | 108.7   | 236.0   | 261.4   | 253.3   | 146.9   | 187.4   | 192.0   | 208.2   | 220.9   | 232.5   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  |
| 2.5°  | 2203.4  | 2189.5  | 2176.8  | 2175.7  | 2166.4  | 2153.7  | 2158.3  | 2138.7  | 2139.8  | 2129.4  | 2117.8  |
| 5°    | 2590.9  | 2581.7  | 2535.4  | 2522.7  | 2488.0  | 2466.0  | 2462.5  | 2416.2  | 2410.5  | 2383.9  | 2354.9  |
| 7.5°  | 3148.4  | 3118.3  | 3053.6  | 3022.3  | 2963.3  | 2919.4  | 2898.6  | 2837.3  | 2807.2  | 2737.8  | 2706.6  |
| 10°   | 3732.5  | 3694.4  | 3614.5  | 3570.6  | 3513.9  | 3443.4  | 3405.2  | 3316.1  | 3281.4  | 3217.8  | 3141.5  |
| 12.5° | 4273.8  | 4235.7  | 4153.5  | 4120.0  | 4044.8  | 3969.6  | 3928.0  | 3827.4  | 3782.3  | 3680.5  | 3620.3  |
| 15°   | 4774.7  | 4736.5  | 4664.8  | 4630.1  | 4554.9  | 4493.6  | 4438.1  | 4338.6  | 4285.4  | 4190.6  | 4111.9  |
| 17.5° | 5260.5  | 5220.0  | 5157.5  | 5126.3  | 5053.4  | 4991.0  | 4930.8  | 4837.1  | 4782.8  | 4687.9  | 4617.4  |
| 20°   | 5711.6  | 5681.5  | 5636.4  | 5594.7  | 5521.9  | 5465.2  | 5393.5  | 5312.5  | 5233.9  | 5164.5  | 5097.4  |
| 22.5° | 6104.8  | 6093.2  | 6044.7  | 6026.2  | 5963.7  | 5915.1  | 5852.7  | 5772.9  | 5716.2  | 5628.3  | 5565.8  |
| 25°   | 6443.7  | 6440.2  | 6417.1  | 6411.3  | 6367.4  | 6321.1  | 6307.2  | 6241.3  | 6189.3  | 6111.8  | 6047.0  |
| 27.5° | 6735.2  | 6738.7  | 6732.9  | 6749.1  | 6737.5  | 6716.7  | 6717.8  | 6695.9  | 6665.8  | 6601.0  | 6544.3  |
| 30°   | 7059.1  | 7040.5  | 7051.0  | 7074.1  | 7081.0  | 7083.3  | 7121.5  | 7134.2  | 7131.9  | 7089.1  | 7061.4  |
| 32.5° | 7517.1  | 7473.1  | 7432.7  | 7429.2  | 7452.3  | 7461.6  | 7526.3  | 7559.9  | 7588.8  | 7599.2  | 7603.8  |
| 35°   | 8101.2  | 8013.3  | 7928.9  | 7883.7  | 7844.4  | 7854.8  | 7901.1  | 7955.5  | 8019.1  | 8063.0  | 8115.1  |
| 37.5° | 8836.8  | 8729.3  | 8580.1  | 8473.6  | 8447.0  | 8389.2  | 8419.3  | 8462.1  | 8524.5  | 8592.8  | 8683.0  |
| 40°   | 9728.6  | 9565.5  | 9397.8  | 9256.7  | 9180.4  | 9073.9  | 9072.8  | 9064.7  | 9102.9  | 9166.5  | 9293.7  |
| 42.5° | 10586.8 | 10442.3 | 10264.1 | 10116.1 | 10016.6 | 9874.3  | 9845.4  | 9770.3  | 9787.6  | 9843.1  | 9966.9  |
| 45°   | 11390.7 | 11271.6 | 11162.9 | 10991.7 | 10907.2 | 10753.4 | 10704.8 | 10615.8 | 10566.0 | 10591.5 | 10715.2 |
| 47.5° | 12169.1 | 12092.8 | 11979.5 | 11868.4 | 11803.6 | 11666.0 | 11603.5 | 11539.9 | 11476.3 | 11474.0 | 11603.5 |
| 50°   | 13686.7 | 13646.2 | 13512.0 | 13396.4 | 13427.6 | 13258.7 | 13269.1 | 13097.9 | 13175.4 | 13184.7 | 13456.5 |
| 52.5° | 15112.8 | 15253.9 | 15353.4 | 15474.9 | 15553.5 | 15568.6 | 15620.6 | 15698.1 | 15791.8 | 15976.9 | 16229.0 |
| 55°   | 15929.4 | 16106.4 | 16209.3 | 16301.9 | 16454.5 | 16486.9 | 16573.7 | 16676.6 | 16758.7 | 16966.9 | 17180.9 |
| 57.5° | 16899.9 | 17228.4 | 17388.0 | 17534.9 | 17740.7 | 17819.4 | 17964.0 | 18076.2 | 18182.6 | 18429.0 | 18688.0 |
| 60°   | 17497.9 | 17898.1 | 18223.1 | 18455.6 | 18713.5 | 18898.6 | 19117.2 | 19293.0 | 19542.8 | 19837.8 | 20224.1 |
| 62.5° | 17022.5 | 17610.0 | 18041.5 | 18440.5 | 18791.0 | 19144.9 | 19458.4 | 19786.9 | 20166.3 | 20612.7 | 21211.9 |
| 65°   | 15129.0 | 15727.0 | 16466.1 | 16880.2 | 17344.0 | 17890.0 | 18366.5 | 18898.6 | 19415.6 | 20065.6 | 20951.6 |
| 67.5° | 12179.6 | 12874.7 | 13705.2 | 14122.7 | 14656.0 | 15265.5 | 15799.9 | 16449.9 | 17053.7 | 17841.4 | 18936.7 |
| 70°   | 8779.0  | 9677.7  | 10376.3 | 10812.4 | 11434.7 | 12062.7 | 12578.6 | 13335.1 | 13834.7 | 14642.1 | 15774.4 |
| 72.5° | 5558.9  | 6267.9  | 7123.8  | 7673.2  | 8226.1  | 8862.3  | 9389.7  | 10042.1 | 10508.2 | 11243.8 | 12269.8 |
| 75°   | 2988.8  | 3511.6  | 4263.4  | 4785.1  | 5377.3  | 5920.9  | 6538.6  | 6975.8  | 7320.5  | 7902.3  | 8735.0  |
| 77.5° | 1400.7  | 1718.8  | 2099.3  | 2500.7  | 2902.0  | 3320.8  | 3727.9  | 4081.8  | 4229.9  | 4563.0  | 5054.6  |
| 80°   | 850.1   | 953.1   | 1064.1  | 1187.9  | 1355.6  | 1490.9  | 1670.2  | 1799.8  | 1809.0  | 1914.3  | 2064.6  |
| 82.5° | 567.9   | 606.1   | 639.6   | 670.9   | 713.7   | 747.2   | 785.4   | 830.5   | 849.0   | 873.3   | 921.9   |
| 85°   | 387.5   | 406.0   | 412.9   | 432.6   | 428.0   | 439.5   | 454.6   | 469.6   | 477.7   | 476.5   | 498.5   |
| 87.5° | 238.3   | 247.5   | 252.2   | 256.8   | 253.3   | 248.7   | 255.6   | 263.7   | 266.0   | 259.1   | 261.4   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0  | 1986.0 | 1986.0 | 1986.0 | 1986.0 |
| 2.5°  | 2120.1  | 2109.7  | 2099.3  | 2092.4  | 2090.1  | 2028.8  | 2002.2  | 1984.8 | 1947.8 | 1917.7 | 1893.4 |
| 5°    | 2338.8  | 2316.8  | 2299.4  | 2278.6  | 2267.0  | 2112.0  | 2055.4  | 2016.0 | 1951.3 | 1913.1 | 1878.4 |
| 7.5°  | 2690.4  | 2629.1  | 2593.2  | 2552.7  | 2518.0  | 2238.1  | 2144.4  | 2083.1 | 1992.9 | 1942.0 | 1902.7 |
| 10°   | 3089.4  | 3025.8  | 2969.1  | 2906.7  | 2852.3  | 2405.8  | 2269.4  | 2174.5 | 2055.4 | 1989.4 | 1937.4 |
| 12.5° | 3534.7  | 3472.3  | 3400.6  | 3320.8  | 3251.4  | 2618.7  | 2429.0  | 2293.6 | 2130.6 | 2042.6 | 1969.8 |
| 15°   | 4061.0  | 3951.1  | 3864.4  | 3771.8  | 3690.9  | 2873.1  | 2615.2  | 2427.8 | 2210.4 | 2091.2 | 1994.1 |
| 17.5° | 4550.3  | 4434.6  | 4316.6  | 4235.7  | 4142.0  | 3158.8  | 2802.6  | 2564.3 | 2276.3 | 2122.5 | 1998.7 |
| 20°   | 5028.0  | 4901.9  | 4800.1  | 4691.4  | 4593.1  | 3454.9  | 3002.7  | 2684.6 | 2319.1 | 2123.6 | 1969.8 |
| 22.5° | 5449.0  | 5370.3  | 5257.0  | 5139.0  | 5039.5  | 3751.0  | 3190.0  | 2786.4 | 2335.3 | 2097.0 | 1918.9 |
| 25°   | 5927.8  | 5844.6  | 5705.8  | 5606.3  | 5495.3  | 4052.9  | 3374.0  | 2865.0 | 2326.0 | 2047.3 | 1840.2 |
| 27.5° | 6439.1  | 6346.6  | 6204.3  | 6100.2  | 5966.0  | 4366.4  | 3542.8  | 2921.7 | 2291.3 | 1966.3 | 1735.0 |
| 30°   | 6972.3  | 6887.9  | 6747.9  | 6642.7  | 6507.3  | 4698.3  | 3731.4  | 2959.9 | 2221.9 | 1854.1 | 1612.4 |
| 32.5° | 7544.8  | 7474.3  | 7335.5  | 7225.6  | 7081.0  | 5058.0  | 3907.2  | 2971.4 | 2116.7 | 1721.1 | 1482.8 |
| 35°   | 8088.5  | 8039.9  | 7923.1  | 7820.1  | 7669.8  | 5398.1  | 4093.4  | 2965.7 | 1991.8 | 1575.4 | 1364.9 |
| 37.5° | 8700.3  | 8671.4  | 8613.6  | 8482.9  | 8299.0  | 5859.6  | 4316.6  | 2941.4 | 1839.1 | 1430.8 | 1274.6 |
| 40°   | 9352.7  | 9355.0  | 9292.6  | 9203.5  | 9032.3  | 6419.4  | 4582.7  | 2893.9 | 1672.5 | 1303.5 | 1192.5 |
| 42.5° | 10043.2 | 10079.1 | 10049.0 | 9985.4  | 9821.1  | 6983.9  | 4900.7  | 2836.1 | 1510.6 | 1179.8 | 1111.5 |
| 45°   | 10834.4 | 10878.3 | 10924.6 | 10830.9 | 10671.3 | 7728.8  | 5319.4  | 2760.9 | 1335.9 | 1076.8 | 1056.0 |
| 47.5° | 11747.0 | 11816.4 | 11858.0 | 11859.2 | 11699.5 | 8651.8  | 5999.6  | 2715.8 | 1180.9 | 1007.4 | 1029.4 |
| 50°   | 13672.8 | 13694.8 | 13793.1 | 13964.3 | 13841.7 | 10788.1 | 7187.4  | 2688.1 | 1075.7 | 964.6  | 1009.8 |
| 52.5° | 16447.6 | 16689.4 | 16859.4 | 16847.8 | 16681.3 | 12144.9 | 7842.1  | 2544.6 | 1013.2 | 948.5  | 1000.5 |
| 55°   | 17577.7 | 17879.5 | 18194.2 | 18277.4 | 18147.9 | 13302.7 | 8460.9  | 2401.2 | 983.2  | 960.0  | 1004.0 |
| 57.5° | 19083.6 | 19592.6 | 20024.0 | 20205.6 | 20018.2 | 14784.3 | 9275.2  | 2326.0 | 973.9  | 991.3  | 1026.0 |
| 60°   | 20842.9 | 21472.1 | 22038.9 | 22365.0 | 22365.0 | 16486.9 | 10119.6 | 2294.8 | 961.2  | 1037.5 | 1063.0 |
| 62.5° | 21972.9 | 22897.1 | 23753.0 | 24230.7 | 24216.8 | 17672.5 | 10494.3 | 2188.4 | 932.3  | 1069.9 | 1113.9 |
| 65°   | 21977.6 | 23076.4 | 24167.1 | 24703.8 | 24731.6 | 17526.8 | 9875.5  | 1932.8 | 879.1  | 1074.5 | 1164.7 |
| 67.5° | 20145.4 | 21317.1 | 22588.3 | 23188.6 | 23327.4 | 16134.2 | 8548.8  | 1589.2 | 792.3  | 1028.3 | 1183.3 |
| 70°   | 17014.4 | 18158.3 | 19456.1 | 20046.0 | 20292.3 | 13753.8 | 6885.6  | 1224.9 | 681.3  | 926.5  | 1145.1 |
| 72.5° | 13404.5 | 14526.4 | 15429.8 | 15861.2 | 16053.2 | 10512.8 | 5014.1  | 925.3  | 558.7  | 780.7  | 1042.1 |
| 75°   | 9490.3  | 10332.4 | 10812.4 | 10908.4 | 10938.5 | 6337.3  | 3046.6  | 688.2  | 460.3  | 607.2  | 880.2  |
| 77.5° | 5356.5  | 5717.3  | 5678.0  | 5720.8  | 5364.6  | 2446.3  | 1326.7  | 492.7  | 379.4  | 461.5  | 682.4  |
| 80°   | 2091.2  | 2156.0  | 2025.3  | 1984.8  | 1820.6  | 910.3   | 585.3   | 343.5  | 303.0  | 349.3  | 477.7  |
| 82.5° | 921.9   | 951.9   | 924.2   | 931.1   | 890.6   | 469.6   | 350.5   | 248.7  | 231.3  | 255.6  | 316.9  |
| 85°   | 507.8   | 517.0   | 514.7   | 529.7   | 507.8   | 187.4   | 166.6   | 152.7  | 161.9  | 173.5  | 203.6  |
| 87.5° | 247.5   | 249.8   | 241.7   | 254.5   | 246.4   | 94.8    | 82.1    | 86.7   | 94.8   | 97.2   | 97.2   |
| 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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