

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: P268782

Luminaire Tested: **GAN-AF-08-LED-U-T2R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268782  
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-08-LED-U-T2R-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 28449.2 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

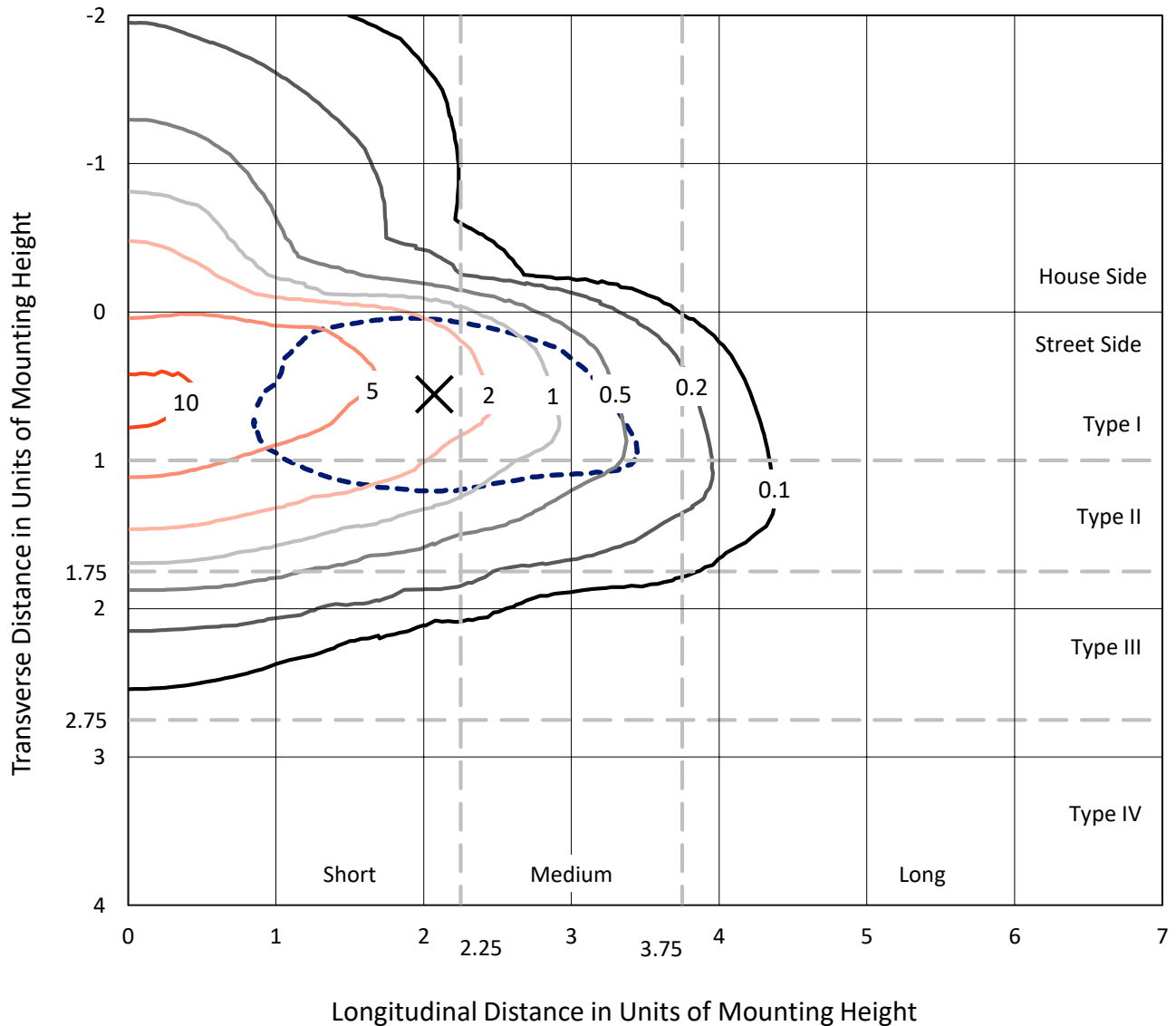
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

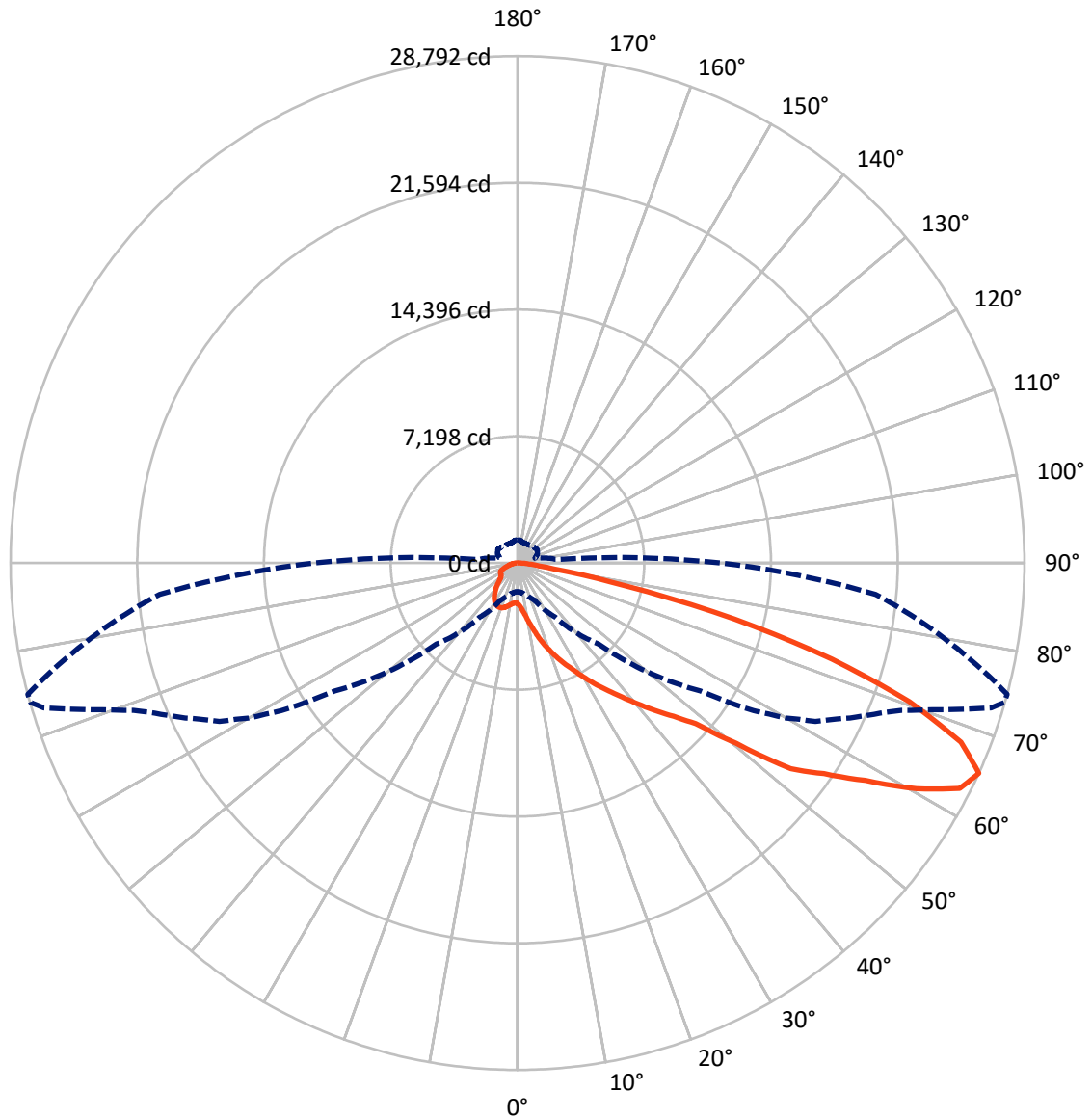


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - Full Cutoff

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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    | 4386.2   | 0.0    | 4386.2  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 24063.0  | 0.0    | 24063.0 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 28449.2  | 0.0    | 28449.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 285.8   | 1.0       |
| 10°-20°   | 1116.6  | 3.9       |
| 20°-30°   | 2290.9  | 8.1       |
| 30°-40°   | 3854.3  | 13.5      |
| 40°-50°   | 5325.6  | 18.7      |
| 50°-60°   | 6647.9  | 23.4      |
| 60°-70°   | 5982.4  | 21.0      |
| 70°-80°   | 2507.8  | 8.8       |
| 80°-90°   | 438.1   | 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°    | 28449.2 | 100.0     |
| 0°-180°   | 28449.2 | 100.0     |

**Coefficient of Utilization**



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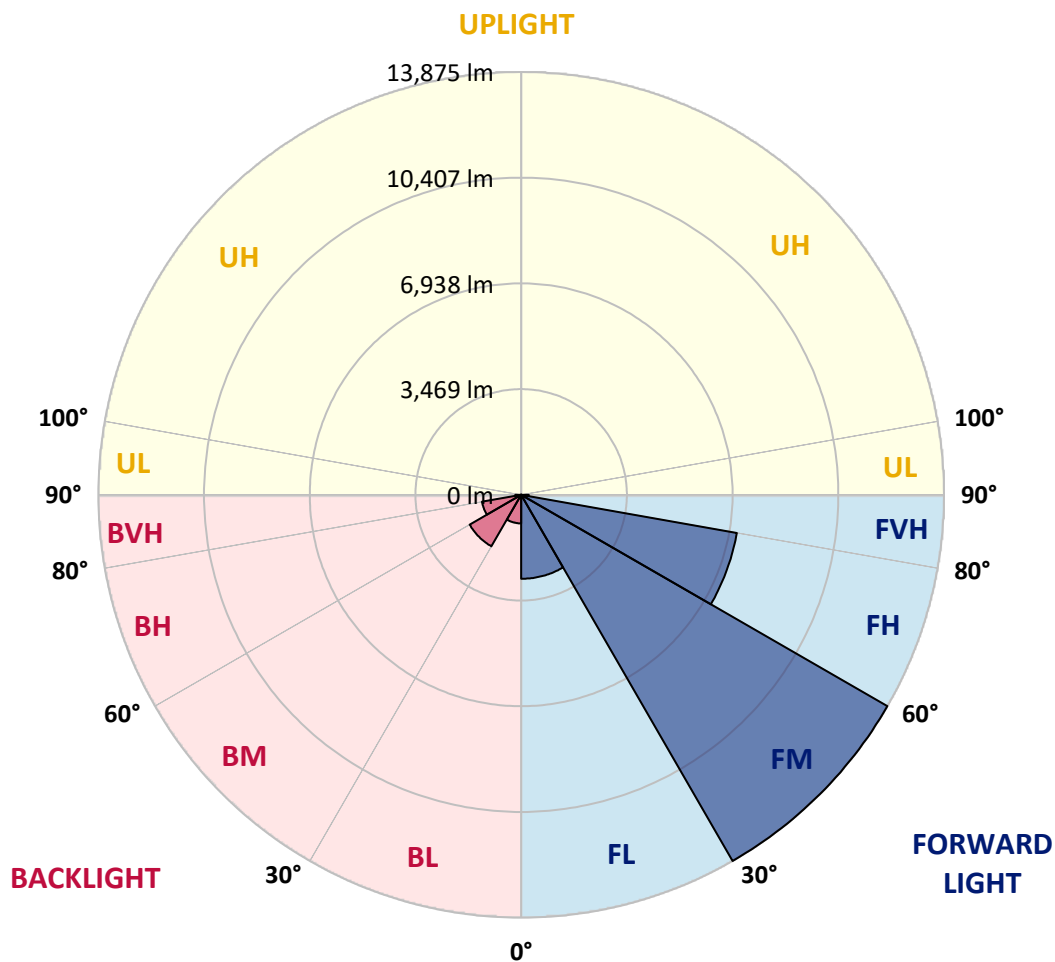
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2755.2  | 9.7       |                         |      |         |
| FM (30°-60°)   | 13875.4 | 48.8      |                         |      |         |
| FH (60°-80°)   | 7186.2  | 25.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 246.3   | 0.9       |                         |      | G3/500  |
| BL (0°-30°)    | 938.0   | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1952.4  | 6.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 1304.0  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 191.9   | 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°    | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  |
| 2.5°  | 2935.5  | 2903.2  | 2911.2  | 2857.4  | 2791.5  | 2705.2  | 2609.7  | 2608.3  | 2609.7  | 2600.2  | 2565.2  |
| 5°    | 4070.7  | 4031.7  | 4016.9  | 3895.6  | 3717.8  | 3464.8  | 3190.1  | 3160.3  | 3148.3  | 3117.3  | 3046.0  |
| 7.5°  | 4898.7  | 4877.3  | 4854.4  | 4762.8  | 4601.2  | 4318.4  | 3949.5  | 3886.2  | 3825.6  | 3810.8  | 3729.9  |
| 10°   | 5433.4  | 5428.0  | 5379.5  | 5355.2  | 5254.2  | 5009.2  | 4649.6  | 4589.1  | 4523.1  | 4500.1  | 4415.3  |
| 12.5° | 5856.2  | 5854.9  | 5831.9  | 5838.7  | 5751.2  | 5573.4  | 5263.7  | 5208.6  | 5160.0  | 5089.9  | 5029.4  |
| 15°   | 6148.4  | 6149.7  | 6183.5  | 6221.1  | 6207.6  | 6087.9  | 5796.9  | 5772.7  | 5730.9  | 5682.5  | 5611.2  |
| 17.5° | 6388.0  | 6394.9  | 6429.8  | 6498.5  | 6572.5  | 6563.1  | 6333.0  | 6312.7  | 6276.3  | 6210.3  | 6172.7  |
| 20°   | 6929.3  | 6954.9  | 6887.7  | 6887.7  | 6895.7  | 6932.1  | 6821.6  | 6805.5  | 6754.4  | 6719.3  | 6689.7  |
| 22.5° | 7843.7  | 7873.4  | 7721.2  | 7566.3  | 7414.2  | 7303.7  | 7193.3  | 7213.5  | 7178.5  | 7154.3  | 7136.8  |
| 25°   | 9031.4  | 9054.2  | 8807.8  | 8546.7  | 8236.9  | 7833.0  | 7559.5  | 7547.5  | 7528.6  | 7513.9  | 7505.7  |
| 27.5° | 10149.1 | 10158.5 | 9925.6  | 9543.1  | 9183.6  | 8603.2  | 7931.2  | 7916.5  | 7893.5  | 7865.3  | 7841.0  |
| 30°   | 11105.0 | 11102.4 | 10862.8 | 10497.9 | 10112.7 | 9470.3  | 8495.5  | 8449.6  | 8382.4  | 8305.5  | 8246.4  |
| 32.5° | 11933.3 | 11929.2 | 11666.6 | 11288.2 | 10884.3 | 10329.5 | 9268.4  | 9174.1  | 9069.1  | 8919.6  | 8829.4  |
| 35°   | 12585.0 | 12582.3 | 12334.4 | 11939.9 | 11476.7 | 11138.8 | 10154.4 | 10038.6 | 9905.3  | 9704.7  | 9566.1  |
| 37.5° | 12831.4 | 12831.4 | 12692.7 | 12423.4 | 12014.0 | 11782.3 | 11138.8 | 10998.7 | 10855.9 | 10628.3 | 10472.3 |
| 40°   | 12687.3 | 12689.9 | 12719.6 | 12669.8 | 12470.5 | 12292.8 | 12057.1 | 11973.6 | 11851.1 | 11646.3 | 11483.5 |
| 42.5° | 12203.8 | 12218.7 | 12415.2 | 12656.3 | 12755.9 | 12727.6 | 12871.8 | 12834.1 | 12747.8 | 12590.4 | 12461.1 |
| 45°   | 11591.2 | 11637.0 | 11852.4 | 12307.6 | 12835.4 | 13103.3 | 13554.4 | 13558.5 | 13542.4 | 13457.5 | 13357.8 |
| 47.5° | 10749.6 | 10814.2 | 11098.4 | 11713.7 | 12649.7 | 13468.3 | 14247.9 | 14284.3 | 14317.9 | 14262.7 | 14216.9 |
| 50°   | 9631.9  | 9708.7  | 10134.1 | 10950.2 | 12271.1 | 13846.7 | 15558.1 | 15722.5 | 15875.9 | 15857.2 | 15888.1 |
| 52.5° | 8434.8  | 8525.0  | 9046.2  | 9955.1  | 11620.8 | 13934.1 | 16395.8 | 16663.6 | 16931.7 | 17151.1 | 17384.1 |
| 55°   | 7355.0  | 7306.5  | 7827.6  | 8785.0  | 10551.6 | 13539.7 | 17148.5 | 17471.7 | 17770.5 | 18039.9 | 18317.2 |
| 57.5° | 5891.3  | 5970.7  | 6493.0  | 7439.8  | 9136.4  | 12426.1 | 17666.8 | 18139.6 | 18569.0 | 19014.8 | 19408.1 |
| 60°   | 4306.3  | 4385.7  | 4952.6  | 5914.1  | 7600.0  | 10737.5 | 17271.0 | 17987.3 | 18675.5 | 19358.1 | 19891.3 |
| 62.5° | 2600.2  | 2659.4  | 3159.0  | 4074.7  | 5860.3  | 8735.1  | 15507.0 | 16446.9 | 17459.5 | 18275.5 | 19092.8 |
| 65°   | 1618.6  | 1652.3  | 1836.8  | 2340.4  | 3763.5  | 6521.3  | 12669.8 | 13694.5 | 14785.3 | 15820.7 | 16670.3 |
| 67.5° | 1325.0  | 1337.1  | 1370.9  | 1478.5  | 2067.0  | 4252.4  | 9430.0  | 10337.5 | 11321.9 | 12323.7 | 13269.0 |
| 70°   | 1191.7  | 1183.6  | 1183.6  | 1190.3  | 1325.0  | 2286.5  | 6174.1  | 6765.1  | 7585.2  | 8456.5  | 9321.0  |
| 72.5° | 1075.9  | 1067.8  | 1053.1  | 1032.8  | 1081.3  | 1395.1  | 3191.4  | 3637.1  | 4228.2  | 5002.5  | 5830.5  |
| 75°   | 966.8   | 956.1   | 938.5   | 912.9   | 946.6   | 1053.1  | 1532.4  | 1719.5  | 2007.7  | 2419.8  | 2881.7  |
| 77.5° | 853.7   | 840.3   | 824.0   | 805.2   | 848.3   | 818.7   | 898.1   | 965.5   | 1075.9  | 1208.0  | 1381.6  |
| 80°   | 725.8   | 713.7   | 708.4   | 698.9   | 750.1   | 623.5   | 634.3   | 676.0   | 740.7   | 812.0   | 892.7   |
| 82.5° | 568.3   | 568.3   | 589.7   | 593.8   | 650.5   | 448.4   | 473.9   | 510.3   | 544.1   | 581.7   | 619.4   |
| 85°   | 374.4   | 377.1   | 449.7   | 478.0   | 513.0   | 301.7   | 355.5   | 367.5   | 394.5   | 416.1   | 432.3   |
| 87.5° | 117.1   | 126.7   | 274.7   | 304.3   | 295.0   | 170.9   | 218.2   | 223.5   | 242.5   | 257.2   | 270.7   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  |
| 2.5°  | 2565.2  | 2549.0  | 2534.2  | 2533.0  | 2522.1  | 2507.3  | 2512.6  | 2489.8  | 2491.1  | 2479.1  | 2465.6  |
| 5°    | 3016.2  | 3005.5  | 2951.7  | 2936.9  | 2896.4  | 2870.9  | 2866.9  | 2813.0  | 2806.2  | 2775.3  | 2741.5  |
| 7.5°  | 3665.4  | 3630.3  | 3555.0  | 3518.5  | 3449.9  | 3398.6  | 3374.5  | 3303.1  | 3268.2  | 3187.2  | 3151.0  |
| 10°   | 4345.3  | 4300.9  | 4208.0  | 4156.8  | 4090.8  | 4008.6  | 3964.3  | 3860.6  | 3820.2  | 3746.1  | 3657.3  |
| 12.5° | 4975.5  | 4931.1  | 4835.4  | 4796.4  | 4708.9  | 4621.4  | 4572.9  | 4455.8  | 4403.2  | 4284.7  | 4214.8  |
| 15°   | 5558.6  | 5514.2  | 5430.7  | 5390.3  | 5302.8  | 5231.4  | 5166.7  | 5050.9  | 4988.9  | 4878.5  | 4787.0  |
| 17.5° | 6124.1  | 6077.0  | 6004.4  | 5968.0  | 5883.1  | 5810.3  | 5740.3  | 5631.4  | 5568.1  | 5457.7  | 5375.5  |
| 20°   | 6649.3  | 6614.3  | 6561.8  | 6513.3  | 6428.5  | 6362.4  | 6279.1  | 6184.7  | 6093.2  | 6012.4  | 5934.4  |
| 22.5° | 7107.1  | 7093.6  | 7037.1  | 7015.6  | 6942.9  | 6886.2  | 6813.6  | 6720.7  | 6654.7  | 6552.3  | 6479.7  |
| 25°   | 7501.7  | 7497.7  | 7470.8  | 7463.9  | 7412.9  | 7358.9  | 7342.7  | 7266.0  | 7205.5  | 7115.2  | 7039.7  |
| 27.5° | 7841.0  | 7845.1  | 7838.3  | 7857.1  | 7843.7  | 7819.4  | 7820.9  | 7795.2  | 7760.2  | 7684.8  | 7618.9  |
| 30°   | 8218.1  | 8196.6  | 8208.6  | 8235.5  | 8243.7  | 8246.4  | 8290.7  | 8305.5  | 8302.9  | 8253.1  | 8220.7  |
| 32.5° | 8751.3  | 8700.2  | 8653.1  | 8648.9  | 8675.9  | 8686.7  | 8762.1  | 8801.1  | 8834.8  | 8846.9  | 8852.3  |
| 35°   | 9431.3  | 9329.0  | 9230.7  | 9178.2  | 9132.3  | 9144.4  | 9198.4  | 9261.6  | 9335.6  | 9386.8  | 9447.5  |
| 37.5° | 10287.7 | 10162.4 | 9988.8  | 9864.8  | 9833.9  | 9766.6  | 9801.5  | 9851.4  | 9924.1  | 10003.5 | 10108.6 |
| 40°   | 11325.9 | 11136.1 | 10940.7 | 10776.5 | 10687.7 | 10563.8 | 10562.5 | 10553.0 | 10597.5 | 10671.4 | 10819.6 |
| 42.5° | 12325.0 | 12156.8 | 11949.3 | 11777.0 | 11661.2 | 11495.6 | 11462.0 | 11374.3 | 11394.6 | 11459.1 | 11603.2 |
| 45°   | 13260.9 | 13122.3 | 12995.7 | 12796.4 | 12698.0 | 12519.0 | 12462.5 | 12358.7 | 12300.9 | 12330.5 | 12474.6 |
| 47.5° | 14167.2 | 14078.2 | 13946.4 | 13817.1 | 13741.6 | 13581.5 | 13508.7 | 13434.6 | 13360.6 | 13357.8 | 13508.7 |
| 50°   | 15933.9 | 15886.7 | 15730.5 | 15595.8 | 15632.2 | 15435.7 | 15447.8 | 15248.5 | 15338.6 | 15349.3 | 15665.9 |
| 52.5° | 17594.2 | 17758.5 | 17874.3 | 18015.6 | 18107.1 | 18124.7 | 18185.3 | 18275.5 | 18384.6 | 18600.0 | 18893.6 |
| 55°   | 18544.8 | 18750.9 | 18870.7 | 18978.4 | 19156.1 | 19193.8 | 19294.9 | 19414.7 | 19510.3 | 19752.7 | 20001.8 |
| 57.5° | 19674.6 | 20056.9 | 20242.9 | 20413.9 | 20653.6 | 20745.1 | 20913.4 | 21044.1 | 21167.9 | 21454.7 | 21756.4 |
| 60°   | 20370.8 | 20836.6 | 21215.0 | 21485.8 | 21786.1 | 22001.5 | 22256.0 | 22460.6 | 22751.6 | 23094.9 | 23544.5 |
| 62.5° | 19817.2 | 20501.4 | 21003.6 | 21468.2 | 21876.2 | 22288.2 | 22653.2 | 23035.5 | 23477.3 | 23997.1 | 24694.5 |
| 65°   | 17613.0 | 18309.2 | 19169.7 | 19651.7 | 20191.7 | 20827.3 | 21382.0 | 22001.5 | 22603.3 | 23360.2 | 24391.6 |
| 67.5° | 14179.2 | 14988.6 | 15955.3 | 16441.5 | 17062.2 | 17771.9 | 18394.1 | 19150.7 | 19853.7 | 20770.7 | 22045.8 |
| 70°   | 10220.3 | 11266.6 | 12080.0 | 12587.6 | 13312.2 | 14043.3 | 14643.8 | 15524.5 | 16106.3 | 17046.1 | 18364.4 |
| 72.5° | 6471.6  | 7297.0  | 8293.4  | 8933.0  | 9576.7  | 10317.4 | 10931.4 | 11690.8 | 12233.5 | 13089.9 | 14284.3 |
| 75°   | 3479.6  | 4088.1  | 4963.4  | 5570.7  | 6260.2  | 6893.1  | 7612.1  | 8121.0  | 8522.4  | 9199.7  | 10169.3 |
| 77.5° | 1630.8  | 2001.0  | 2444.0  | 2911.2  | 3378.5  | 3865.9  | 4339.9  | 4752.0  | 4924.4  | 5312.1  | 5884.4  |
| 80°   | 989.8   | 1109.5  | 1238.9  | 1382.9  | 1578.1  | 1735.7  | 1944.4  | 2095.2  | 2106.0  | 2228.5  | 2403.7  |
| 82.5° | 661.2   | 705.6   | 744.7   | 780.9   | 830.8   | 869.9   | 914.4   | 966.8   | 988.3   | 1016.6  | 1073.3  |
| 85°   | 451.0   | 472.7   | 480.8   | 503.6   | 498.2   | 511.7   | 529.2   | 546.7   | 556.1   | 554.9   | 580.3   |
| 87.5° | 277.3   | 288.1   | 293.6   | 299.0   | 295.0   | 289.6   | 297.6   | 307.0   | 309.7   | 301.7   | 304.3   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1  | 2312.1 | 2312.1 | 2312.1 | 2312.1 |
| 2.5°  | 2468.3  | 2456.1  | 2444.0  | 2435.9  | 2433.1  | 2361.9  | 2330.9  | 2310.7 | 2267.6 | 2232.6 | 2204.4 |
| 5°    | 2722.8  | 2697.2  | 2676.9  | 2652.8  | 2639.3  | 2458.8  | 2392.8  | 2347.0 | 2271.6 | 2227.2 | 2186.8 |
| 7.5°  | 3132.1  | 3060.7  | 3018.9  | 2971.9  | 2931.4  | 2605.7  | 2496.5  | 2425.2 | 2320.1 | 2260.9 | 2215.1 |
| 10°   | 3596.6  | 3522.7  | 3456.6  | 3383.9  | 3320.7  | 2800.8  | 2641.9  | 2531.6 | 2392.8 | 2316.1 | 2255.5 |
| 12.5° | 4115.0  | 4042.4  | 3958.9  | 3865.9  | 3785.2  | 3048.6  | 2827.8  | 2670.2 | 2480.4 | 2378.1 | 2293.3 |
| 15°   | 4727.8  | 4599.9  | 4498.8  | 4391.2  | 4296.9  | 3344.8  | 3044.5  | 2826.4 | 2573.3 | 2434.5 | 2321.5 |
| 17.5° | 5297.3  | 5162.6  | 5025.4  | 4931.1  | 4822.0  | 3677.4  | 3262.7  | 2985.3 | 2650.0 | 2471.0 | 2326.9 |
| 20°   | 5853.4  | 5706.8  | 5588.3  | 5461.6  | 5347.3  | 4022.3  | 3495.7  | 3125.4 | 2699.9 | 2472.2 | 2293.3 |
| 22.5° | 6343.7  | 6252.1  | 6120.2  | 5982.7  | 5867.0  | 4366.9  | 3713.9  | 3243.9 | 2718.7 | 2441.4 | 2233.9 |
| 25°   | 6901.0  | 6804.1  | 6642.5  | 6526.7  | 6397.5  | 4718.3  | 3927.8  | 3335.4 | 2707.9 | 2383.5 | 2142.4 |
| 27.5° | 7496.3  | 7388.6  | 7222.9  | 7101.8  | 6945.5  | 5083.2  | 4124.5  | 3401.4 | 2667.5 | 2289.2 | 2019.8 |
| 30°   | 8117.1  | 8018.8  | 7855.9  | 7733.2  | 7575.8  | 5469.7  | 4344.1  | 3445.9 | 2586.7 | 2158.5 | 1877.1 |
| 32.5° | 8783.5  | 8701.4  | 8539.8  | 8412.0  | 8243.7  | 5888.5  | 4548.7  | 3459.4 | 2464.2 | 2003.7 | 1726.4 |
| 35°   | 9416.6  | 9359.9  | 9223.9  | 9104.1  | 8929.1  | 6284.5  | 4765.5  | 3452.5 | 2318.7 | 1834.0 | 1588.9 |
| 37.5° | 10128.7 | 10095.2 | 10027.8 | 9875.6  | 9661.6  | 6821.6  | 5025.4  | 3424.2 | 2141.0 | 1665.6 | 1483.9 |
| 40°   | 10888.3 | 10891.1 | 10818.3 | 10714.5 | 10515.3 | 7473.4  | 5335.0  | 3369.2 | 1947.2 | 1517.5 | 1388.3 |
| 42.5° | 11692.2 | 11733.9 | 11698.8 | 11624.8 | 11433.6 | 8130.5  | 5705.3  | 3301.8 | 1758.6 | 1373.5 | 1294.1 |
| 45°   | 12613.2 | 12664.3 | 12718.3 | 12609.1 | 12423.4 | 8997.8  | 6192.8  | 3214.2 | 1555.2 | 1253.7 | 1229.4 |
| 47.5° | 13675.6 | 13756.5 | 13805.0 | 13806.3 | 13620.5 | 10072.2 | 6984.6  | 3161.8 | 1374.9 | 1172.8 | 1198.5 |
| 50°   | 15917.6 | 15943.3 | 16057.7 | 16257.0 | 16114.2 | 12559.4 | 8367.5  | 3129.4 | 1252.2 | 1123.1 | 1175.5 |
| 52.5° | 19148.1 | 19429.5 | 19627.4 | 19614.0 | 19420.1 | 14139.0 | 9129.7  | 2962.4 | 1179.6 | 1104.1 | 1164.8 |
| 55°   | 20463.7 | 20815.2 | 21181.3 | 21278.3 | 21127.5 | 15486.8 | 9850.0  | 2795.4 | 1144.6 | 1117.6 | 1168.9 |
| 57.5° | 22216.9 | 22809.4 | 23311.6 | 23523.0 | 23304.9 | 17211.7 | 10798.0 | 2707.9 | 1133.8 | 1154.1 | 1194.3 |
| 60°   | 24264.9 | 24997.6 | 25657.4 | 26037.1 | 26037.1 | 19193.8 | 11781.0 | 2671.6 | 1119.0 | 1208.0 | 1237.4 |
| 62.5° | 25580.7 | 26656.6 | 27653.0 | 28209.0 | 28192.9 | 20574.2 | 12217.4 | 2547.8 | 1085.3 | 1245.6 | 1296.8 |
| 65°   | 25586.0 | 26865.3 | 28135.1 | 28759.9 | 28792.1 | 20404.5 | 11497.0 | 2250.2 | 1023.3 | 1251.0 | 1356.0 |
| 67.5° | 23452.9 | 24817.0 | 26297.0 | 26995.9 | 27157.4 | 18783.2 | 9952.4  | 1850.1 | 922.4  | 1197.1 | 1377.6 |
| 70°   | 19807.8 | 21139.6 | 22650.6 | 23337.2 | 23624.0 | 16012.0 | 8016.0  | 1426.0 | 793.2  | 1078.5 | 1333.1 |
| 72.5° | 15605.3 | 16911.4 | 17963.0 | 18465.4 | 18688.9 | 12238.9 | 5837.4  | 1077.2 | 650.5  | 908.9  | 1213.3 |
| 75°   | 11048.6 | 12028.8 | 12587.6 | 12699.3 | 12734.5 | 7377.8  | 3546.9  | 801.2  | 535.8  | 707.0  | 1024.7 |
| 77.5° | 6235.9  | 6656.0  | 6610.3  | 6660.0  | 6245.3  | 2847.9  | 1544.5  | 573.7  | 441.6  | 537.2  | 794.6  |
| 80°   | 2434.5  | 2510.0  | 2357.8  | 2310.7  | 2119.6  | 1059.7  | 681.4   | 399.9  | 352.9  | 406.7  | 556.1  |
| 82.5° | 1073.3  | 1108.1  | 1075.9  | 1084.0  | 1036.9  | 546.7   | 408.0   | 289.6  | 269.3  | 297.6  | 368.9  |
| 85°   | 591.2   | 602.0   | 599.2   | 616.7   | 591.2   | 218.2   | 193.9   | 177.8  | 188.6  | 201.9  | 237.1  |
| 87.5° | 288.1   | 290.8   | 281.3   | 296.3   | 286.7   | 110.4   | 95.6    | 101.0  | 110.4  | 113.0  | 113.0  |
| 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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|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2312.1 | 2312.1 | 2312.1 | 2312.1 | 2312.1 | 2312.1 |
| 2.5°  | 2184.0 | 2173.4 | 2174.6 | 2172.0 | 2166.6 | 2166.6 |
| 5°    | 2165.3 | 2154.4 | 2154.4 | 2151.8 | 2145.1 | 2146.4 |
| 7.5°  | 2184.0 | 2166.6 | 2159.9 | 2150.5 | 2141.0 | 2141.0 |
| 10°   | 2205.7 | 2174.6 | 2155.8 | 2139.8 | 2127.5 | 2127.5 |
| 12.5° | 2221.8 | 2173.4 | 2142.4 | 2120.8 | 2108.7 | 2108.7 |
| 15°   | 2227.2 | 2163.9 | 2120.8 | 2095.2 | 2084.4 | 2083.1 |
| 17.5° | 2209.7 | 2127.5 | 2075.1 | 2045.4 | 2032.0 | 2028.0 |
| 20°   | 2155.8 | 2061.6 | 1998.3 | 1964.7 | 1945.8 | 1939.0 |
| 22.5° | 2075.1 | 1967.3 | 1893.3 | 1858.2 | 1834.0 | 1829.9 |
| 25°   | 1962.0 | 1846.1 | 1773.4 | 1739.7 | 1726.4 | 1722.2 |
| 27.5° | 1829.9 | 1722.2 | 1660.2 | 1638.8 | 1626.7 | 1625.4 |
| 30°   | 1704.8 | 1613.1 | 1567.5 | 1551.3 | 1536.5 | 1533.8 |
| 32.5° | 1587.6 | 1529.8 | 1512.1 | 1489.3 | 1454.3 | 1450.3 |
| 35°   | 1504.1 | 1498.7 | 1486.7 | 1435.4 | 1392.4 | 1380.2 |
| 37.5° | 1453.0 | 1502.8 | 1440.8 | 1339.8 | 1308.9 | 1306.1 |
| 40°   | 1423.4 | 1461.1 | 1354.6 | 1319.6 | 1322.3 | 1319.6 |
| 42.5° | 1356.0 | 1395.1 | 1357.2 | 1341.2 | 1351.9 | 1354.6 |
| 45°   | 1288.7 | 1331.7 | 1377.6 | 1366.7 | 1392.4 | 1392.4 |
| 47.5° | 1251.0 | 1315.6 | 1376.3 | 1376.3 | 1413.9 | 1427.3 |
| 50°   | 1208.0 | 1302.2 | 1354.6 | 1373.5 | 1403.2 | 1392.4 |
| 52.5° | 1205.2 | 1279.2 | 1323.7 | 1357.2 | 1370.9 | 1358.6 |
| 55°   | 1209.2 | 1260.4 | 1292.8 | 1330.4 | 1346.6 | 1347.8 |
| 57.5° | 1214.6 | 1249.6 | 1271.1 | 1288.7 | 1337.1 | 1337.1 |
| 60°   | 1228.1 | 1240.2 | 1252.2 | 1261.7 | 1325.0 | 1326.3 |
| 62.5° | 1249.6 | 1230.8 | 1228.1 | 1237.4 | 1318.4 | 1313.0 |
| 65°   | 1283.3 | 1217.4 | 1197.1 | 1206.6 | 1311.5 | 1295.4 |
| 67.5° | 1329.0 | 1197.1 | 1158.0 | 1164.8 | 1306.1 | 1271.1 |
| 70°   | 1370.9 | 1164.8 | 1109.5 | 1102.8 | 1255.0 | 1193.0 |
| 72.5° | 1374.9 | 1127.1 | 1042.3 | 1022.0 | 1090.7 | 1031.4 |
| 75°   | 1307.6 | 1101.5 | 968.2  | 908.9  | 900.8  | 892.7  |
| 77.5° | 1178.2 | 1086.7 | 882.0  | 789.2  | 772.9  | 778.3  |
| 80°   | 985.7  | 1031.4 | 778.3  | 667.9  | 755.5  | 746.0  |
| 82.5° | 736.6  | 910.3  | 661.2  | 591.2  | 589.7  | 521.1  |
| 85°   | 409.4  | 709.7  | 538.7  | 443.0  | 308.4  | 299.0  |
| 87.5° | 114.4  | 394.5  | 377.1  | 250.4  | 170.9  | 177.8  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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