

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: P191414

Luminaire Tested: **GAN-AF-06-LED-U-T2R-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191414  
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-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37941.2 lumens  
Efficiency: N/A  
Efficacy: 113.9 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 - G4

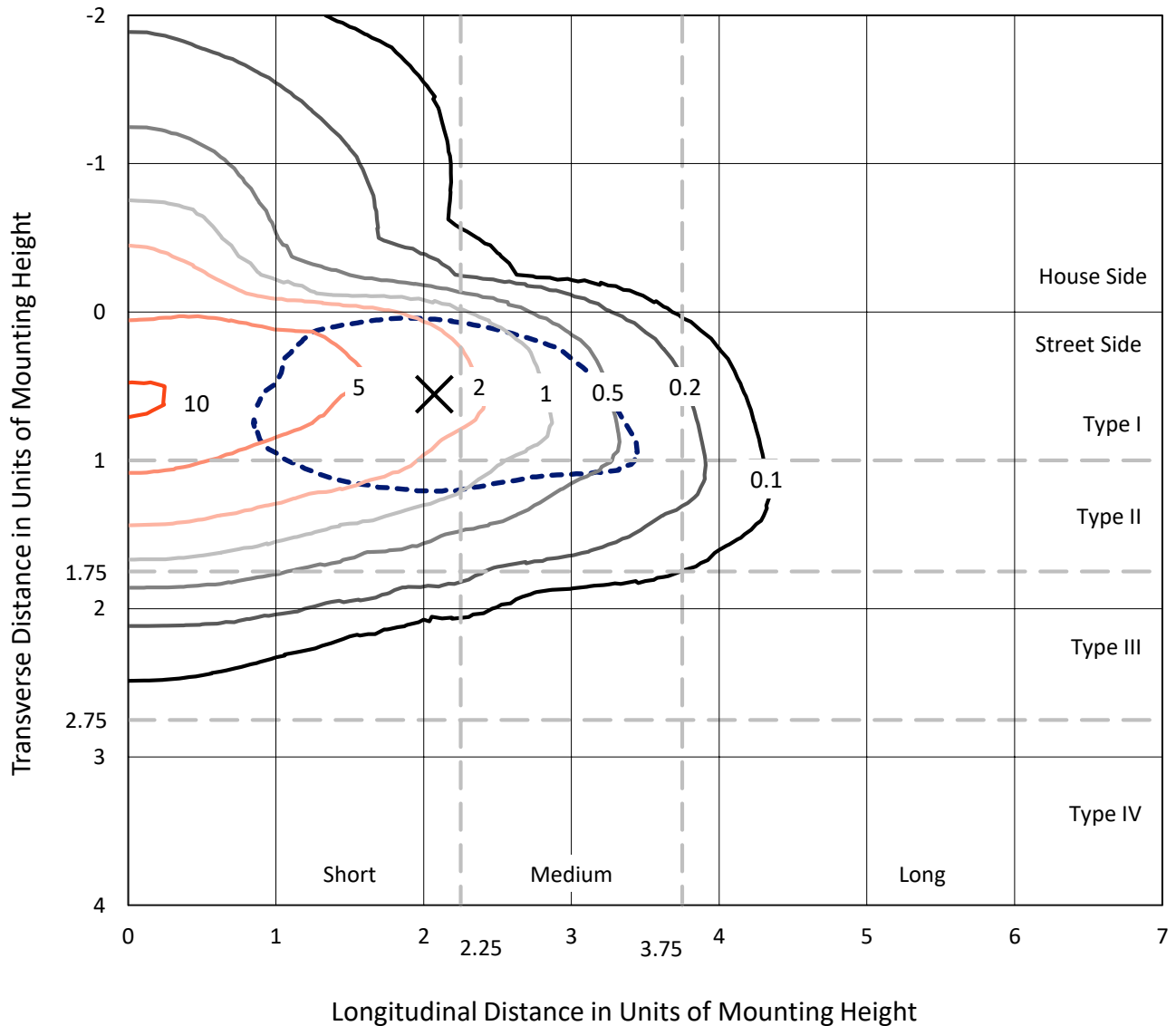
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

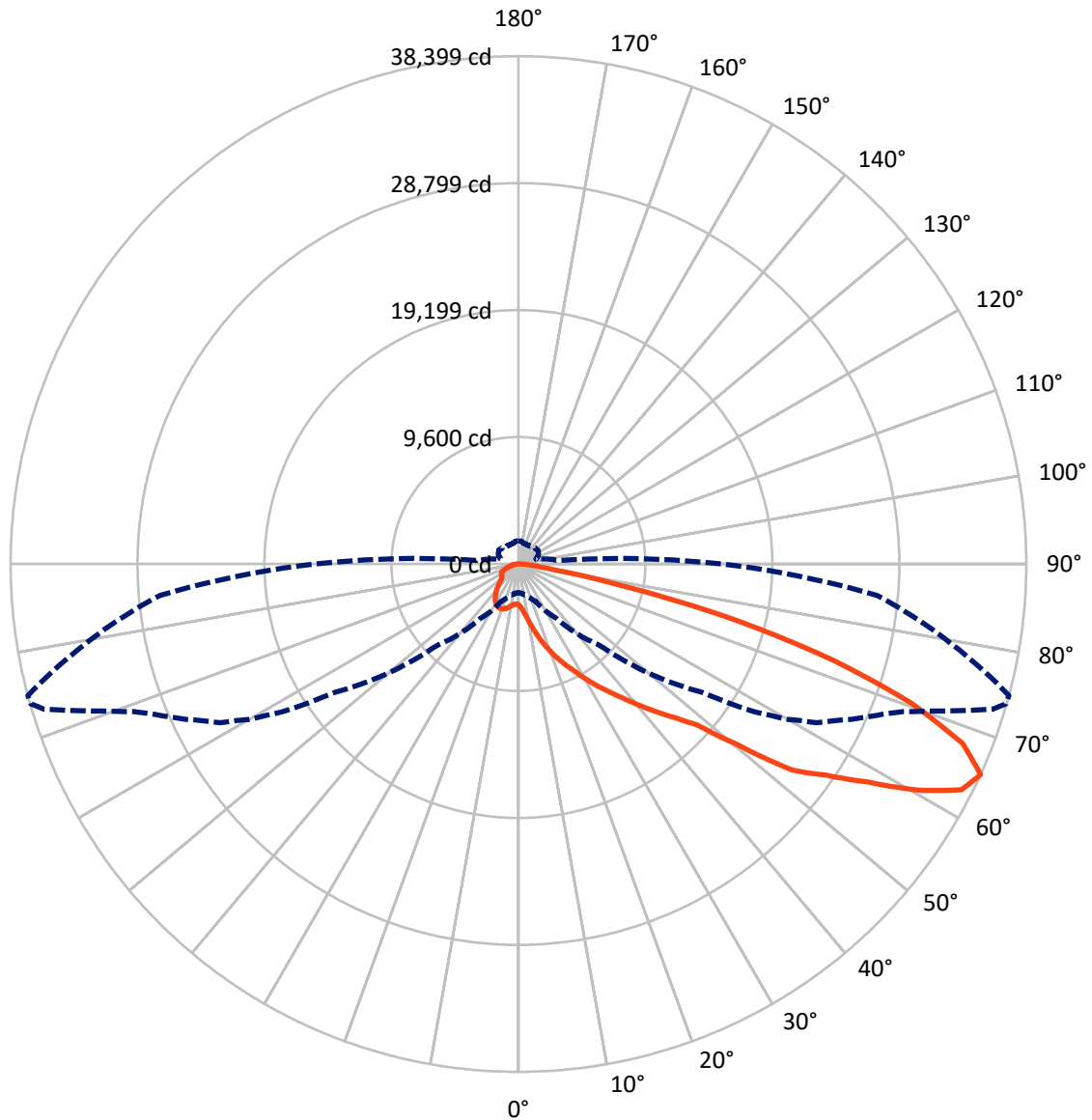
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 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    | 5849.6   | 0.0    | 5849.6  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 32091.6  | 0.0    | 32091.6 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 37941.2  | 0.0    | 37941.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 381.1   | 1.0       |
| 10°-20°   | 1489.1  | 3.9       |
| 20°-30°   | 3055.2  | 8.1       |
| 30°-40°   | 5140.3  | 13.5      |
| 40°-50°   | 7102.4  | 18.7      |
| 50°-60°   | 8865.9  | 23.4      |
| 60°-70°   | 7978.4  | 21.0      |
| 70°-80°   | 3344.5  | 8.8       |
| 80°-90°   | 584.3   | 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°    | 37941.2 | 100.0     |
| 0°-180°   | 37941.2 | 100.0     |

**Coefficient of Utilization**



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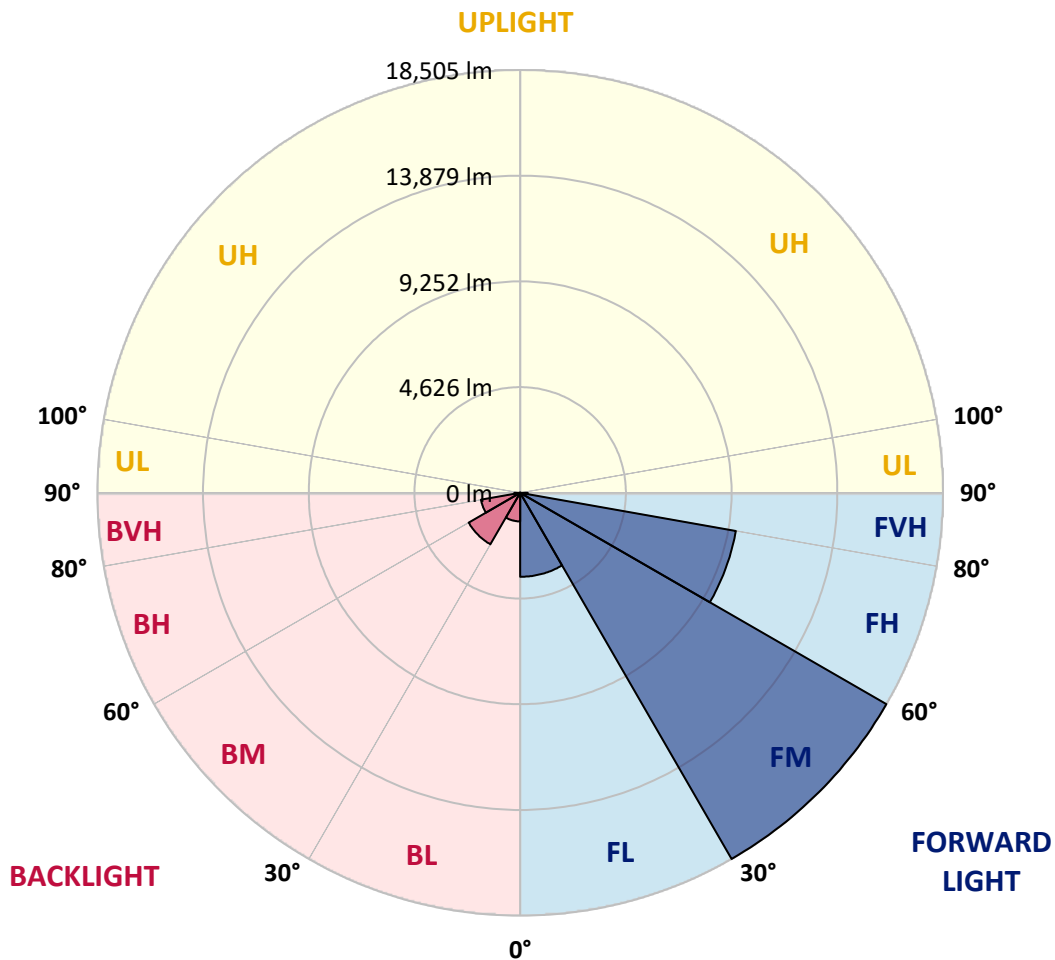
CATALOG NUMBER: GAN-AF-06-LED-U-T2R-ADJ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3674.5  | 9.7       |                         |      |          |
| FM   | (30°-60°)   | 18504.9 | 48.8      |                         |      |          |
| FH   | (60°-80°)   | 9583.8  | 25.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 328.4   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1251.0  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2603.7  | 6.9       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1739.0  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 255.9   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  |
| 2.5°  | 3914.9  | 3871.9  | 3882.6  | 3810.8  | 3722.7  | 3607.8  | 3480.3  | 3478.5  | 3480.3  | 3467.8  | 3421.1  |
| 5°    | 5428.8  | 5376.7  | 5357.0  | 5195.4  | 4958.3  | 4620.7  | 4254.4  | 4214.9  | 4198.7  | 4157.4  | 4062.1  |
| 7.5°  | 6533.3  | 6504.5  | 6473.9  | 6351.9  | 6136.4  | 5759.2  | 5267.2  | 5182.8  | 5102.0  | 5082.2  | 4974.5  |
| 10°   | 7246.2  | 7239.0  | 7174.4  | 7142.0  | 7007.3  | 6680.5  | 6201.0  | 6120.2  | 6032.2  | 6001.7  | 5888.5  |
| 12.5° | 7810.1  | 7808.3  | 7777.8  | 7786.7  | 7670.0  | 7433.0  | 7019.9  | 6946.3  | 6881.7  | 6788.3  | 6707.5  |
| 15°   | 8199.8  | 8201.6  | 8246.5  | 8296.7  | 8278.8  | 8119.0  | 7731.1  | 7698.7  | 7643.1  | 7578.4  | 7483.3  |
| 17.5° | 8519.4  | 8528.4  | 8575.1  | 8666.7  | 8765.5  | 8752.9  | 8445.8  | 8418.9  | 8370.4  | 8282.4  | 8232.1  |
| 20°   | 9241.3  | 9275.5  | 9185.7  | 9185.7  | 9196.4  | 9244.9  | 9097.7  | 9076.1  | 9007.9  | 8961.3  | 8921.8  |
| 22.5° | 10460.8 | 10500.3 | 10297.3 | 10090.8 | 9887.8  | 9740.6  | 9593.3  | 9620.3  | 9573.6  | 9541.3  | 9517.9  |
| 25°   | 12044.6 | 12075.2 | 11746.5 | 11398.1 | 10985.2 | 10446.4 | 10081.8 | 10065.6 | 10040.6 | 10020.7 | 10010.0 |
| 27.5° | 13535.2 | 13547.8 | 13237.1 | 12727.1 | 12247.6 | 11473.6 | 10577.5 | 10557.8 | 10527.2 | 10489.4 | 10457.1 |
| 30°   | 14810.3 | 14806.7 | 14487.0 | 14000.3 | 13486.7 | 12630.2 | 11329.9 | 11268.8 | 11179.1 | 11076.7 | 10997.7 |
| 32.5° | 15914.7 | 15909.3 | 15559.1 | 15054.5 | 14515.8 | 13775.9 | 12360.7 | 12235.0 | 12095.0 | 11895.6 | 11775.3 |
| 35°   | 16783.9 | 16780.3 | 16449.9 | 15923.7 | 15305.9 | 14855.2 | 13542.4 | 13388.0 | 13210.2 | 12942.6 | 12757.6 |
| 37.5° | 17112.5 | 17112.5 | 16927.6 | 16568.4 | 16022.5 | 15713.5 | 14855.2 | 14668.4 | 14478.0 | 14174.5 | 13966.2 |
| 40°   | 16920.4 | 16924.0 | 16963.5 | 16897.0 | 16631.2 | 16394.2 | 16080.0 | 15968.6 | 15805.2 | 15532.2 | 15314.9 |
| 42.5° | 16275.7 | 16295.4 | 16557.6 | 16879.1 | 17012.0 | 16974.2 | 17166.4 | 17116.1 | 17001.2 | 16791.1 | 16618.7 |
| 45°   | 15458.5 | 15519.6 | 15806.9 | 16414.0 | 17118.0 | 17475.3 | 18076.9 | 18082.3 | 18060.7 | 17947.6 | 17814.7 |
| 47.5° | 14336.1 | 14422.4 | 14801.3 | 15622.0 | 16870.1 | 17962.0 | 19001.7 | 19050.2 | 19095.1 | 19021.5 | 18960.5 |
| 50°   | 12845.6 | 12948.0 | 13515.4 | 14603.7 | 16365.5 | 18466.6 | 20749.1 | 20968.2 | 21172.9 | 21147.8 | 21189.1 |
| 52.5° | 11249.1 | 11369.5 | 12064.5 | 13276.6 | 15498.1 | 18583.3 | 21866.1 | 22223.5 | 22580.8 | 22873.6 | 23184.3 |
| 55°   | 9808.9  | 9744.2  | 10439.2 | 11716.1 | 14072.2 | 18057.1 | 22870.0 | 23301.0 | 23699.6 | 24058.8 | 24428.8 |
| 57.5° | 7856.8  | 7962.8  | 8659.5  | 9922.0  | 12184.8 | 16572.0 | 23561.4 | 24191.8 | 24764.6 | 25359.1 | 25883.4 |
| 60°   | 5743.1  | 5849.0  | 6605.1  | 7887.4  | 10135.7 | 14320.0 | 23033.4 | 23988.8 | 24906.5 | 25816.9 | 26528.1 |
| 62.5° | 3467.8  | 3546.8  | 4213.0  | 5434.2  | 7815.4  | 11649.6 | 20680.9 | 21934.3 | 23284.8 | 24373.1 | 25463.2 |
| 65°   | 2158.6  | 2203.5  | 2449.6  | 3121.1  | 5019.4  | 8697.2  | 16897.0 | 18263.7 | 19718.3 | 21099.3 | 22232.5 |
| 67.5° | 1767.1  | 1783.3  | 1828.1  | 1971.8  | 2756.6  | 5671.2  | 12576.3 | 13786.6 | 15099.4 | 16435.5 | 17696.1 |
| 70°   | 1589.4  | 1578.5  | 1578.5  | 1587.5  | 1767.1  | 3049.3  | 8233.9  | 9022.3  | 10116.0 | 11277.8 | 12430.8 |
| 72.5° | 1434.9  | 1424.0  | 1404.3  | 1377.4  | 1442.1  | 1860.4  | 4256.1  | 4850.5  | 5638.9  | 6671.6  | 7776.0  |
| 75°   | 1289.4  | 1275.0  | 1251.7  | 1217.6  | 1262.4  | 1404.3  | 2043.7  | 2293.3  | 2677.6  | 3227.1  | 3843.1  |
| 77.5° | 1138.5  | 1120.6  | 1099.1  | 1073.9  | 1131.4  | 1091.9  | 1197.8  | 1287.6  | 1434.9  | 1610.8  | 1842.5  |
| 80°   | 967.9   | 951.8   | 944.6   | 932.0   | 1000.2  | 831.5   | 845.9   | 901.5   | 987.8   | 1082.9  | 1190.6  |
| 82.5° | 757.8   | 757.8   | 786.5   | 792.0   | 867.4   | 598.0   | 632.2   | 680.7   | 725.5   | 775.8   | 826.1   |
| 85°   | 499.2   | 502.9   | 599.9   | 637.5   | 684.3   | 402.2   | 474.1   | 490.3   | 526.2   | 555.0   | 576.4   |
| 87.5° | 156.2   | 168.8   | 366.3   | 405.9   | 393.3   | 228.1   | 290.9   | 298.1   | 323.3   | 343.0   | 361.0   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  |
| 2.5°  | 3421.1  | 3399.5  | 3379.7  | 3378.0  | 3363.6  | 3343.8  | 3351.0  | 3320.5  | 3322.3  | 3306.2  | 3288.2  |
| 5°    | 4022.7  | 4008.3  | 3936.5  | 3916.7  | 3862.9  | 3828.7  | 3823.4  | 3751.5  | 3742.6  | 3701.2  | 3656.3  |
| 7.5°  | 4888.3  | 4841.6  | 4741.0  | 4692.5  | 4600.9  | 4532.7  | 4500.4  | 4405.2  | 4358.5  | 4250.8  | 4202.3  |
| 10°   | 5795.1  | 5735.9  | 5612.0  | 5543.8  | 5455.7  | 5346.2  | 5286.9  | 5148.6  | 5094.8  | 4996.0  | 4877.5  |
| 12.5° | 6635.6  | 6576.3  | 6448.9  | 6396.8  | 6280.0  | 6163.3  | 6098.6  | 5942.4  | 5872.4  | 5714.3  | 5621.0  |
| 15°   | 7413.2  | 7354.0  | 7242.6  | 7188.7  | 7072.0  | 6976.8  | 6890.6  | 6736.2  | 6653.6  | 6506.3  | 6384.2  |
| 17.5° | 8167.4  | 8104.6  | 8007.7  | 7959.2  | 7846.0  | 7749.1  | 7655.7  | 7510.2  | 7425.8  | 7278.5  | 7168.9  |
| 20°   | 8867.9  | 8821.1  | 8751.1  | 8686.5  | 8573.4  | 8485.4  | 8374.0  | 8248.3  | 8126.1  | 8018.4  | 7914.3  |
| 22.5° | 9478.5  | 9460.5  | 9385.1  | 9356.3  | 9259.3  | 9184.0  | 9087.0  | 8963.0  | 8875.0  | 8738.6  | 8641.6  |
| 25°   | 10004.6 | 9999.2  | 9963.3  | 9954.3  | 9886.1  | 9814.3  | 9792.7  | 9690.3  | 9609.5  | 9489.2  | 9388.6  |
| 27.5° | 10457.1 | 10462.5 | 10453.5 | 10478.7 | 10460.8 | 10428.5 | 10430.2 | 10396.1 | 10349.4 | 10248.8 | 10160.9 |
| 30°   | 10960.0 | 10931.3 | 10947.4 | 10983.3 | 10994.2 | 10997.7 | 11057.0 | 11076.7 | 11073.1 | 11006.6 | 10963.6 |
| 32.5° | 11671.2 | 11602.9 | 11540.0 | 11534.7 | 11570.6 | 11584.9 | 11685.5 | 11737.5 | 11782.4 | 11798.6 | 11805.9 |
| 35°   | 12578.0 | 12441.5 | 12310.5 | 12240.4 | 12179.4 | 12195.5 | 12267.3 | 12351.7 | 12450.5 | 12518.8 | 12599.6 |
| 37.5° | 13720.2 | 13553.2 | 13321.5 | 13156.3 | 13115.0 | 13025.2 | 13071.9 | 13138.4 | 13235.3 | 13341.2 | 13481.4 |
| 40°   | 15104.8 | 14851.6 | 14591.2 | 14372.0 | 14253.6 | 14088.4 | 14086.5 | 14074.0 | 14133.2 | 14232.0 | 14429.5 |
| 42.5° | 16437.3 | 16212.8 | 15936.2 | 15706.4 | 15551.9 | 15331.1 | 15286.2 | 15169.4 | 15196.3 | 15282.6 | 15474.7 |
| 45°   | 17685.4 | 17500.4 | 17331.7 | 17065.9 | 16934.7 | 16695.9 | 16620.5 | 16482.2 | 16405.0 | 16444.4 | 16636.7 |
| 47.5° | 18894.0 | 18775.4 | 18599.5 | 18427.1 | 18326.5 | 18112.8 | 18015.8 | 17917.1 | 17818.3 | 17814.7 | 18015.8 |
| 50°   | 21250.2 | 21187.3 | 20979.0 | 20799.4 | 20847.8 | 20585.7 | 20601.8 | 20336.1 | 20456.4 | 20470.8 | 20892.7 |
| 52.5° | 23464.4 | 23683.5 | 23837.9 | 24026.5 | 24148.6 | 24171.9 | 24252.7 | 24373.1 | 24518.6 | 24805.9 | 25197.4 |
| 55°   | 24732.3 | 25007.1 | 25166.8 | 25310.6 | 25547.6 | 25597.8 | 25732.5 | 25892.4 | 26019.9 | 26343.1 | 26675.4 |
| 57.5° | 26239.0 | 26749.0 | 26996.8 | 27224.9 | 27544.6 | 27666.6 | 27891.2 | 28065.4 | 28230.6 | 28613.1 | 29015.4 |
| 60°   | 27167.4 | 27788.8 | 28293.4 | 28654.4 | 29054.9 | 29342.2 | 29681.6 | 29954.6 | 30342.5 | 30800.4 | 31400.2 |
| 62.5° | 26429.4 | 27341.6 | 28011.5 | 28631.1 | 29175.2 | 29724.7 | 30211.3 | 30721.4 | 31310.4 | 32003.6 | 32933.9 |
| 65°   | 23489.5 | 24418.0 | 25565.5 | 26208.4 | 26928.6 | 27776.2 | 28516.1 | 29342.2 | 30144.9 | 31154.2 | 32529.8 |
| 67.5° | 18910.2 | 19989.5 | 21278.9 | 21927.2 | 22755.0 | 23701.5 | 24531.2 | 25540.4 | 26477.9 | 27700.8 | 29401.4 |
| 70°   | 13630.4 | 15025.8 | 16110.5 | 16787.4 | 17753.6 | 18728.8 | 19529.8 | 20704.2 | 21480.0 | 22733.5 | 24491.6 |
| 72.5° | 8630.8  | 9731.6  | 11060.6 | 11913.6 | 12772.0 | 13759.7 | 14578.6 | 15591.4 | 16315.1 | 17457.4 | 19050.2 |
| 75°   | 4640.4  | 5452.1  | 6619.4  | 7429.4  | 8348.8  | 9192.8  | 10151.9 | 10830.7 | 11365.8 | 12269.2 | 13562.2 |
| 77.5° | 2174.8  | 2668.6  | 3259.4  | 3882.6  | 4505.8  | 5155.9  | 5788.0  | 6337.5  | 6567.3  | 7084.5  | 7847.8  |
| 80°   | 1319.9  | 1479.8  | 1652.2  | 1844.3  | 2104.7  | 2314.8  | 2593.2  | 2794.3  | 2808.7  | 2972.1  | 3205.5  |
| 82.5° | 881.8   | 941.0   | 993.1   | 1041.6  | 1108.1  | 1160.1  | 1219.4  | 1289.4  | 1318.2  | 1355.8  | 1431.3  |
| 85°   | 601.6   | 630.3   | 641.1   | 671.7   | 664.5   | 682.4   | 705.7   | 729.2   | 741.6   | 739.9   | 774.0   |
| 87.5° | 369.9   | 384.3   | 391.5   | 398.6   | 393.3   | 386.1   | 396.9   | 409.5   | 413.1   | 402.2   | 405.9   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5  | 3083.5 | 3083.5 | 3083.5 | 3083.5 |
| 2.5°  | 3291.8  | 3275.6  | 3259.4  | 3248.7  | 3245.1  | 3149.9  | 3108.5  | 3081.6 | 3024.1 | 2977.5 | 2939.8 |
| 5°    | 3631.2  | 3597.1  | 3570.1  | 3537.8  | 3519.9  | 3279.2  | 3191.2  | 3130.1 | 3029.6 | 2970.3 | 2916.4 |
| 7.5°  | 4177.1  | 4082.0  | 4026.2  | 3963.4  | 3909.5  | 3475.0  | 3329.5  | 3234.3 | 3094.2 | 3015.2 | 2954.2 |
| 10°   | 4796.7  | 4697.9  | 4609.9  | 4513.0  | 4428.6  | 3735.3  | 3523.5  | 3376.1 | 3191.2 | 3088.8 | 3008.0 |
| 12.5° | 5488.0  | 5391.1  | 5279.8  | 5155.9  | 5048.1  | 4065.8  | 3771.2  | 3561.1 | 3307.9 | 3171.5 | 3058.3 |
| 15°   | 6305.2  | 6134.5  | 5999.9  | 5856.2  | 5730.5  | 4460.9  | 4060.4  | 3769.5 | 3431.8 | 3246.8 | 3096.1 |
| 17.5° | 7064.8  | 6885.3  | 6702.1  | 6576.3  | 6430.9  | 4904.4  | 4351.3  | 3981.3 | 3534.2 | 3295.3 | 3103.2 |
| 20°   | 7806.5  | 7610.8  | 7452.7  | 7283.9  | 7131.3  | 5364.1  | 4662.0  | 4168.1 | 3600.7 | 3297.2 | 3058.3 |
| 22.5° | 8460.2  | 8338.1  | 8162.1  | 7978.9  | 7824.4  | 5823.9  | 4952.9  | 4326.2 | 3625.7 | 3255.8 | 2979.3 |
| 25°   | 9203.7  | 9074.4  | 8858.9  | 8704.4  | 8532.0  | 6292.6  | 5238.4  | 4448.3 | 3611.4 | 3178.6 | 2857.2 |
| 27.5° | 9997.4  | 9853.8  | 9632.8  | 9471.2  | 9262.9  | 6779.3  | 5500.6  | 4536.3 | 3557.5 | 3052.9 | 2693.7 |
| 30°   | 10825.3 | 10694.2 | 10477.0 | 10313.5 | 10103.4 | 7294.7  | 5793.4  | 4595.5 | 3449.8 | 2878.7 | 2503.4 |
| 32.5° | 11714.2 | 11604.7 | 11389.2 | 11218.6 | 10994.2 | 7853.2  | 6066.3  | 4613.5 | 3286.3 | 2672.3 | 2302.3 |
| 35°   | 12558.3 | 12482.9 | 12301.5 | 12141.6 | 11908.2 | 8381.1  | 6355.5  | 4604.5 | 3092.4 | 2446.0 | 2119.0 |
| 37.5° | 13508.3 | 13463.4 | 13373.5 | 13170.7 | 12885.1 | 9097.7  | 6702.1  | 4566.9 | 2855.4 | 2221.4 | 1979.0 |
| 40°   | 14521.1 | 14524.8 | 14427.8 | 14289.5 | 14023.7 | 9966.9  | 7115.1  | 4493.2 | 2596.8 | 2023.9 | 1851.5 |
| 42.5° | 15593.2 | 15648.9 | 15602.3 | 15503.4 | 15248.4 | 10843.3 | 7608.9  | 4403.4 | 2345.3 | 1831.8 | 1725.8 |
| 45°   | 16821.6 | 16889.8 | 16961.6 | 16816.2 | 16568.4 | 11999.8 | 8259.1  | 4286.7 | 2074.2 | 1671.9 | 1639.6 |
| 47.5° | 18238.5 | 18346.3 | 18411.0 | 18412.7 | 18164.8 | 13432.9 | 9315.0  | 4216.6 | 1833.5 | 1564.2 | 1598.3 |
| 50°   | 21228.6 | 21262.7 | 21415.4 | 21681.1 | 21490.8 | 16749.8 | 11159.4 | 4173.5 | 1670.2 | 1497.7 | 1567.8 |
| 52.5° | 25536.8 | 25912.2 | 26176.1 | 26158.2 | 25899.6 | 18856.3 | 12175.8 | 3950.8 | 1573.2 | 1472.5 | 1553.4 |
| 55°   | 27291.3 | 27760.0 | 28248.5 | 28377.8 | 28176.7 | 20653.9 | 13136.5 | 3728.1 | 1526.4 | 1490.5 | 1558.8 |
| 57.5° | 29629.5 | 30419.7 | 31089.5 | 31371.4 | 31080.5 | 22954.4 | 14400.8 | 3611.4 | 1512.1 | 1539.0 | 1592.9 |
| 60°   | 32360.9 | 33338.0 | 34217.9 | 34724.3 | 34724.3 | 25597.8 | 15711.8 | 3562.9 | 1492.4 | 1610.8 | 1650.3 |
| 62.5° | 34115.5 | 35550.4 | 36879.3 | 37621.0 | 37599.5 | 27438.6 | 16293.7 | 3397.7 | 1447.5 | 1661.2 | 1729.4 |
| 65°   | 34122.7 | 35828.8 | 37522.2 | 38355.4 | 38398.6 | 27212.3 | 15332.8 | 3000.8 | 1364.8 | 1668.3 | 1808.4 |
| 67.5° | 31278.1 | 33097.3 | 35070.9 | 36003.0 | 36218.4 | 25050.1 | 13273.0 | 2467.5 | 1230.1 | 1596.5 | 1837.1 |
| 70°   | 26416.8 | 28192.8 | 30207.7 | 31123.7 | 31506.2 | 21354.3 | 10690.7 | 1901.8 | 1057.7 | 1438.5 | 1777.9 |
| 72.5° | 20811.9 | 22553.9 | 23956.5 | 24626.3 | 24924.4 | 16322.4 | 7785.0  | 1436.6 | 867.4  | 1212.2 | 1618.0 |
| 75°   | 14734.9 | 16042.2 | 16787.4 | 16936.6 | 16983.2 | 9839.4  | 4730.2  | 1068.5 | 714.7  | 942.9  | 1366.7 |
| 77.5° | 8316.5  | 8876.9  | 8815.8  | 8882.2  | 8329.1  | 3798.2  | 2059.8  | 765.1  | 589.0  | 716.6  | 1059.6 |
| 80°   | 3246.8  | 3347.4  | 3144.6  | 3081.6  | 2826.6  | 1413.3  | 908.7   | 533.4  | 470.6  | 542.4  | 741.6  |
| 82.5° | 1431.3  | 1478.0  | 1434.9  | 1445.6  | 1382.8  | 729.2   | 544.1   | 386.1  | 359.2  | 396.9  | 492.0  |
| 85°   | 788.4   | 802.7   | 799.1   | 822.5   | 788.4   | 290.9   | 258.6   | 237.0  | 251.4  | 269.3  | 316.1  |
| 87.5° | 384.3   | 387.9   | 375.3   | 395.1   | 382.5   | 147.3   | 127.5   | 134.7  | 147.3  | 150.9  | 150.9  |
| 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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|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 3083.5 | 3083.5 | 3083.5 | 3083.5 | 3083.5 | 3083.5 |
| 2.5°  | 2912.9 | 2898.5 | 2900.3 | 2896.7 | 2889.5 | 2889.5 |
| 5°    | 2887.7 | 2873.4 | 2873.4 | 2869.8 | 2860.8 | 2862.5 |
| 7.5°  | 2912.9 | 2889.5 | 2880.5 | 2867.9 | 2855.4 | 2855.4 |
| 10°   | 2941.6 | 2900.3 | 2875.1 | 2853.6 | 2837.5 | 2837.5 |
| 12.5° | 2963.2 | 2898.5 | 2857.2 | 2828.5 | 2812.3 | 2812.3 |
| 15°   | 2970.3 | 2885.9 | 2828.5 | 2794.3 | 2780.0 | 2778.1 |
| 17.5° | 2947.0 | 2837.5 | 2767.4 | 2727.9 | 2709.9 | 2704.6 |
| 20°   | 2875.1 | 2749.4 | 2665.0 | 2620.1 | 2595.0 | 2586.0 |
| 22.5° | 2767.4 | 2623.8 | 2524.9 | 2478.3 | 2446.0 | 2440.6 |
| 25°   | 2616.5 | 2462.1 | 2365.2 | 2320.3 | 2302.3 | 2296.8 |
| 27.5° | 2440.6 | 2296.8 | 2214.3 | 2185.5 | 2169.4 | 2167.5 |
| 30°   | 2273.5 | 2151.4 | 2090.4 | 2068.8 | 2049.1 | 2045.5 |
| 32.5° | 2117.3 | 2040.1 | 2016.7 | 1986.2 | 1939.5 | 1934.1 |
| 35°   | 2005.9 | 1998.7 | 1982.6 | 1914.4 | 1856.9 | 1840.7 |
| 37.5° | 1937.7 | 2004.2 | 1921.5 | 1786.9 | 1745.6 | 1742.0 |
| 40°   | 1898.2 | 1948.5 | 1806.6 | 1759.9 | 1763.5 | 1759.9 |
| 42.5° | 1808.4 | 1860.4 | 1810.2 | 1788.6 | 1803.1 | 1806.6 |
| 45°   | 1718.7 | 1776.0 | 1837.1 | 1822.8 | 1856.9 | 1856.9 |
| 47.5° | 1668.3 | 1754.6 | 1835.4 | 1835.4 | 1885.6 | 1903.6 |
| 50°   | 1610.8 | 1736.6 | 1806.6 | 1831.8 | 1871.3 | 1856.9 |
| 52.5° | 1607.3 | 1706.1 | 1765.3 | 1810.2 | 1828.1 | 1812.0 |
| 55°   | 1612.7 | 1680.9 | 1724.0 | 1774.3 | 1795.8 | 1797.6 |
| 57.5° | 1619.8 | 1666.5 | 1695.2 | 1718.7 | 1783.3 | 1783.3 |
| 60°   | 1637.8 | 1654.0 | 1670.2 | 1682.7 | 1767.1 | 1768.9 |
| 62.5° | 1666.5 | 1641.4 | 1637.8 | 1650.3 | 1758.1 | 1751.0 |
| 65°   | 1711.4 | 1623.4 | 1596.5 | 1609.1 | 1749.1 | 1727.6 |
| 67.5° | 1772.5 | 1596.5 | 1544.5 | 1553.4 | 1742.0 | 1695.2 |
| 70°   | 1828.1 | 1553.4 | 1479.8 | 1470.8 | 1673.8 | 1591.1 |
| 72.5° | 1833.5 | 1503.1 | 1390.0 | 1363.1 | 1454.6 | 1375.6 |
| 75°   | 1743.7 | 1469.0 | 1291.2 | 1212.2 | 1201.5 | 1190.6 |
| 77.5° | 1571.4 | 1449.2 | 1176.3 | 1052.3 | 1030.8 | 1038.0 |
| 80°   | 1314.6 | 1375.6 | 1038.0 | 890.8  | 1007.5 | 994.9  |
| 82.5° | 982.3  | 1213.9 | 881.8  | 788.4  | 786.5  | 695.0  |
| 85°   | 545.9  | 946.4  | 718.3  | 590.9  | 411.2  | 398.6  |
| 87.5° | 152.6  | 526.2  | 502.9  | 334.0  | 228.1  | 237.0  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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