

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: P268861

Luminaire Tested: **GAN-AF-09-LED-U-T2R-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268861  
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-09-LED-U-T2R-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 48166.2 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

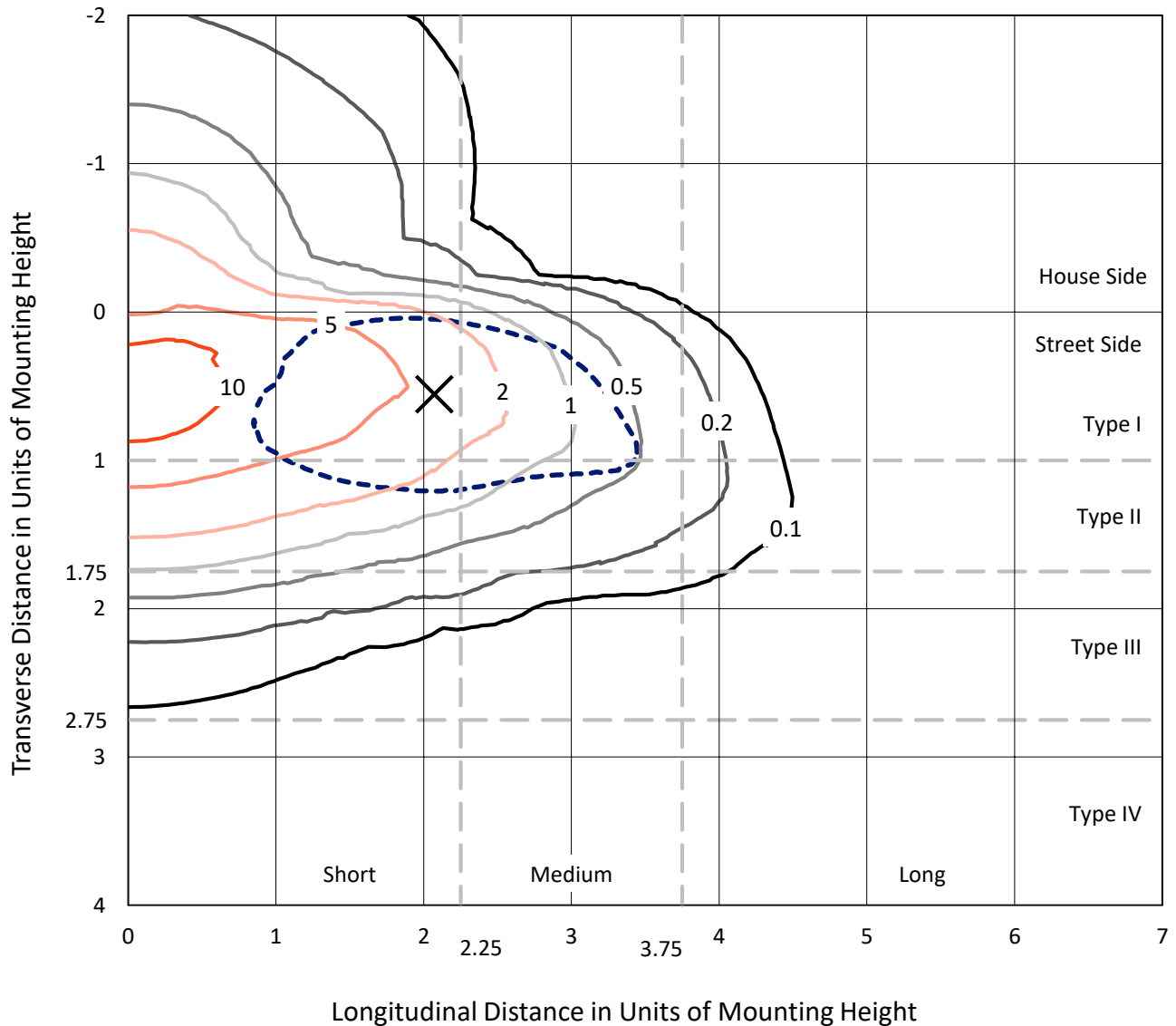
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

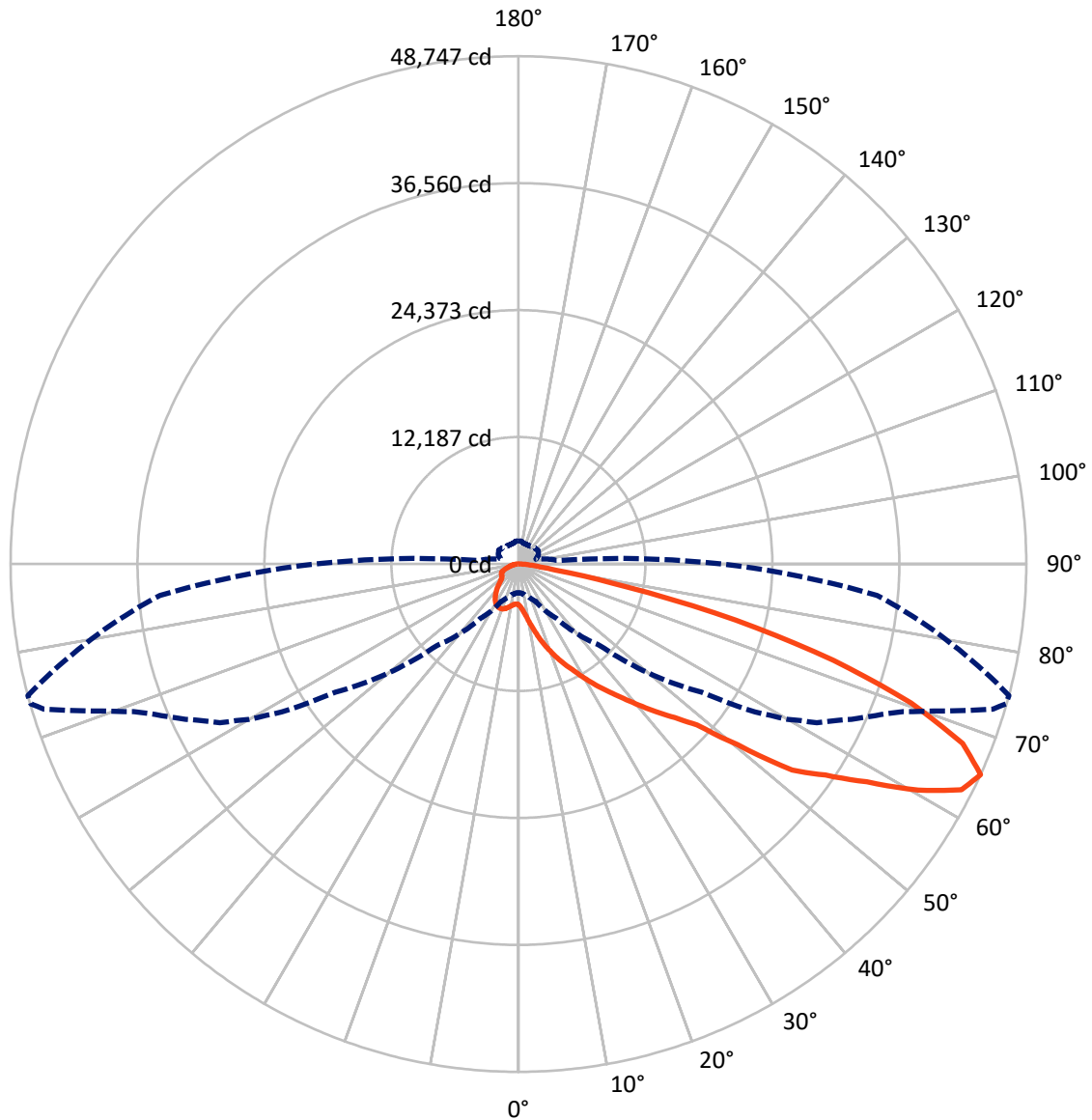
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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    | 7426.1   | 0.0    | 7426.1  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 40740.1  | 0.0    | 40740.1 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 48166.2  | 0.0    | 48166.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 483.8   | 1.0       |
| 10°-20°   | 1890.5  | 3.9       |
| 20°-30°   | 3878.6  | 8.1       |
| 30°-40°   | 6525.5  | 13.5      |
| 40°-50°   | 9016.5  | 18.7      |
| 50°-60°   | 11255.3 | 23.4      |
| 60°-70°   | 10128.5 | 21.0      |
| 70°-80°   | 4245.8  | 8.8       |
| 80°-90°   | 741.8   | 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°    | 48166.2 | 100.0     |
| 0°-180°   | 48166.2 | 100.0     |

**Coefficient of Utilization**



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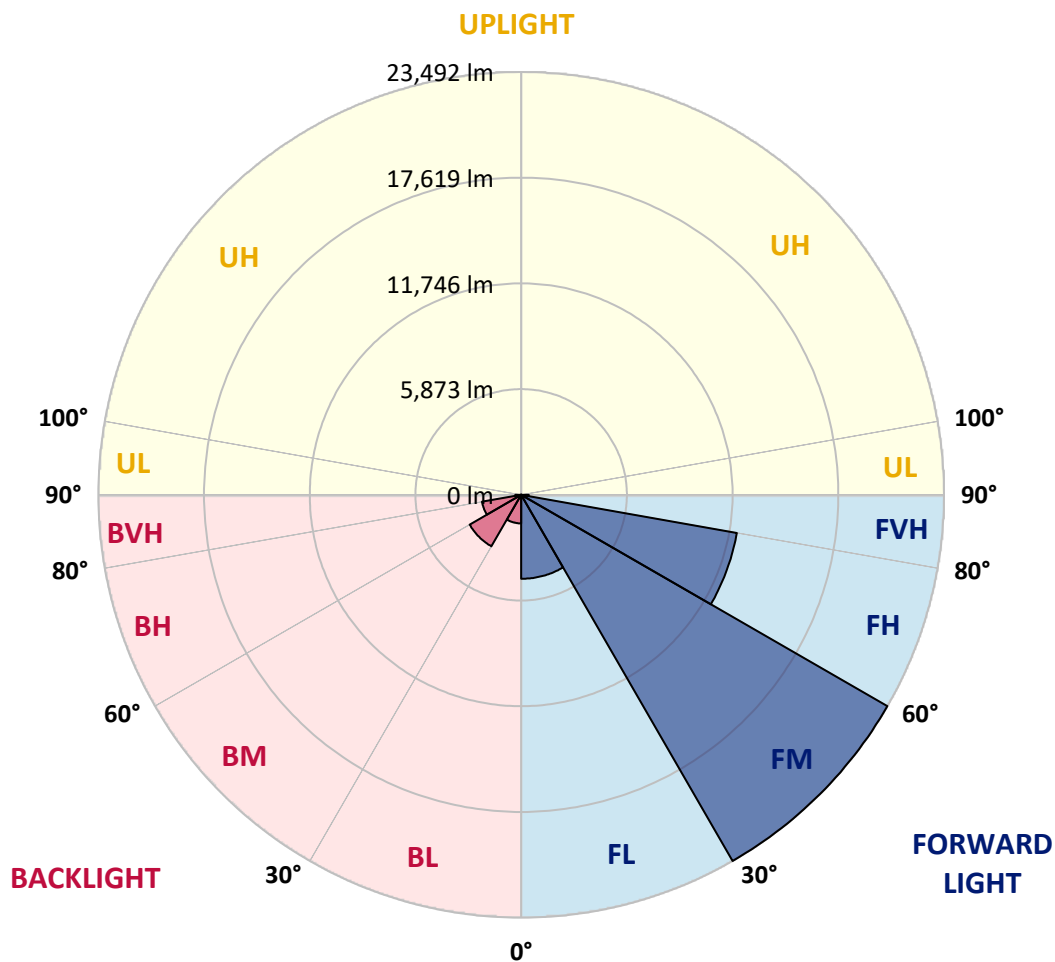
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4664.8  | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 23491.8 | 48.8      |                         |      |         |
| FH   | (60°-80°)   | 12166.6 | 25.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 416.9   | 0.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1588.1  | 3.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3305.5  | 6.9       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2207.7  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 324.8   | 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-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  |
| 2.5°  | 4970.0  | 4915.3  | 4928.9  | 4837.7  | 4726.1  | 4580.1  | 4418.3  | 4416.0  | 4418.3  | 4402.4  | 4343.0  |
| 5°    | 6891.8  | 6825.7  | 6800.7  | 6595.4  | 6294.6  | 5865.9  | 5400.9  | 5350.8  | 5330.3  | 5277.7  | 5156.9  |
| 7.5°  | 8294.0  | 8257.5  | 8218.8  | 8063.6  | 7790.1  | 7311.3  | 6686.7  | 6579.5  | 6476.9  | 6451.8  | 6315.1  |
| 10°   | 9199.1  | 9189.9  | 9107.8  | 9066.9  | 8895.7  | 8480.9  | 7872.1  | 7769.6  | 7658.0  | 7619.2  | 7475.4  |
| 12.5° | 9914.9  | 9912.5  | 9873.8  | 9885.2  | 9737.1  | 9436.2  | 8911.7  | 8818.3  | 8736.1  | 8617.7  | 8515.0  |
| 15°   | 10409.6 | 10411.9 | 10468.8 | 10532.6 | 10509.9 | 10307.1 | 9814.5  | 9773.5  | 9702.9  | 9620.8  | 9499.9  |
| 17.5° | 10815.5 | 10826.8 | 10886.1 | 11002.4 | 11127.8 | 11111.8 | 10721.9 | 10687.8 | 10626.2 | 10514.4 | 10450.6 |
| 20°   | 11731.9 | 11775.3 | 11661.2 | 11661.2 | 11674.9 | 11736.4 | 11549.5 | 11522.1 | 11435.6 | 11376.2 | 11326.1 |
| 22.5° | 13279.9 | 13329.9 | 13072.5 | 12810.2 | 12552.6 | 12365.7 | 12178.7 | 12212.8 | 12153.7 | 12112.6 | 12082.9 |
| 25°   | 15290.7 | 15329.3 | 14912.3 | 14469.9 | 13945.6 | 13261.6 | 12798.8 | 12778.3 | 12746.4 | 12721.3 | 12707.7 |
| 27.5° | 17182.9 | 17198.9 | 16804.5 | 16156.9 | 15548.3 | 14565.7 | 13428.0 | 13403.0 | 13364.3 | 13316.4 | 13275.3 |
| 30°   | 18801.5 | 18797.0 | 18391.2 | 17773.3 | 17121.3 | 16033.8 | 14383.3 | 14305.8 | 14191.9 | 14061.9 | 13961.5 |
| 32.5° | 20203.6 | 20196.9 | 19752.2 | 19111.6 | 18427.7 | 17488.5 | 15692.0 | 15532.4 | 15354.5 | 15101.4 | 14948.6 |
| 35°   | 21307.1 | 21302.4 | 20883.0 | 20215.0 | 19430.8 | 18858.6 | 17192.0 | 16995.9 | 16770.3 | 16430.5 | 16195.7 |
| 37.5° | 21724.3 | 21724.3 | 21489.4 | 21033.5 | 20340.4 | 19948.3 | 18858.6 | 18621.4 | 18379.9 | 17994.5 | 17730.0 |
| 40°   | 21480.4 | 21484.9 | 21535.1 | 21450.6 | 21113.3 | 20812.3 | 20413.4 | 20272.1 | 20064.5 | 19718.1 | 19442.1 |
| 42.5° | 20661.8 | 20687.0 | 21019.8 | 21427.9 | 21596.6 | 21548.7 | 21792.6 | 21728.8 | 21582.9 | 21316.2 | 21097.4 |
| 45°   | 19624.6 | 19702.0 | 20066.9 | 20837.4 | 21731.1 | 22184.8 | 22948.6 | 22955.4 | 22928.0 | 22784.4 | 22615.6 |
| 47.5° | 18199.8 | 18309.2 | 18790.1 | 19832.1 | 21416.5 | 22802.5 | 24122.6 | 24184.2 | 24241.1 | 24147.7 | 24070.2 |
| 50°   | 16307.4 | 16437.4 | 17157.7 | 18539.4 | 20775.9 | 23443.2 | 26340.9 | 26618.9 | 26878.9 | 26846.9 | 26899.4 |
| 52.5° | 14280.6 | 14433.4 | 15315.7 | 16854.5 | 19674.7 | 23591.4 | 27759.0 | 28212.6 | 28666.3 | 29037.9 | 29432.2 |
| 55°   | 12452.2 | 12370.2 | 13252.5 | 14873.4 | 17864.6 | 22923.5 | 29033.3 | 29580.5 | 30086.7 | 30542.6 | 31012.1 |
| 57.5° | 9974.2  | 10108.6 | 10993.2 | 12595.9 | 15468.5 | 21038.0 | 29911.0 | 30711.3 | 31438.5 | 32193.1 | 32858.8 |
| 60°   | 7290.9  | 7425.3  | 8385.0  | 10012.9 | 12867.2 | 18179.2 | 29240.8 | 30453.6 | 31618.6 | 32774.5 | 33677.3 |
| 62.5° | 4402.4  | 4502.7  | 5348.4  | 6898.8  | 9921.7  | 14789.1 | 26254.3 | 27845.5 | 29559.9 | 30941.5 | 32325.4 |
| 65°   | 2740.3  | 2797.3  | 3109.7  | 3962.3  | 6372.0  | 11041.1 | 21450.6 | 23185.7 | 25032.3 | 26785.4 | 28223.9 |
| 67.5° | 2243.3  | 2263.9  | 2320.9  | 2503.2  | 3499.4  | 7199.6  | 15965.4 | 17502.0 | 19168.7 | 20864.8 | 22465.3 |
| 70°   | 2017.7  | 2003.9  | 2003.9  | 2015.3  | 2243.3  | 3871.1  | 10452.9 | 11453.7 | 12842.1 | 14317.1 | 15780.9 |
| 72.5° | 1821.6  | 1807.8  | 1782.7  | 1748.6  | 1830.7  | 2361.9  | 5403.1  | 6157.7  | 7158.7  | 8469.5  | 9871.6  |
| 75°   | 1636.9  | 1618.7  | 1589.0  | 1545.8  | 1602.7  | 1782.7  | 2594.5  | 2911.2  | 3399.1  | 4096.8  | 4878.8  |
| 77.5° | 1445.5  | 1422.6  | 1395.2  | 1363.3  | 1436.3  | 1386.2  | 1520.7  | 1634.6  | 1821.6  | 2045.0  | 2339.0  |
| 80°   | 1228.8  | 1208.3  | 1199.1  | 1183.2  | 1269.8  | 1055.6  | 1073.7  | 1144.5  | 1253.9  | 1374.8  | 1511.5  |
| 82.5° | 962.1   | 962.1   | 998.6   | 1005.5  | 1101.1  | 759.2   | 802.5   | 864.0   | 921.0   | 984.9   | 1048.7  |
| 85°   | 633.8   | 638.3   | 761.5   | 809.4   | 868.7   | 510.6   | 601.9   | 622.3   | 668.0   | 704.5   | 731.8   |
| 87.5° | 198.3   | 214.2   | 465.1   | 515.3   | 499.3   | 289.6   | 369.4   | 378.5   | 410.3   | 435.5   | 458.2   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  |
| 2.5°  | 4343.0  | 4315.6  | 4290.6  | 4288.2  | 4270.1  | 4245.0  | 4254.2  | 4215.3  | 4217.6  | 4197.2  | 4174.3  |
| 5°    | 5106.8  | 5088.4  | 4997.4  | 4972.3  | 4903.8  | 4860.5  | 4853.7  | 4762.5  | 4751.1  | 4698.7  | 4641.7  |
| 7.5°  | 6205.6  | 6146.4  | 6018.6  | 5957.1  | 5840.9  | 5754.3  | 5713.2  | 5592.4  | 5533.1  | 5396.3  | 5334.8  |
| 10°   | 7356.8  | 7281.8  | 7124.4  | 7037.7  | 6926.0  | 6787.0  | 6711.7  | 6536.2  | 6467.7  | 6342.5  | 6191.9  |
| 12.5° | 8423.9  | 8348.7  | 8186.8  | 8120.7  | 7972.5  | 7824.2  | 7742.2  | 7543.8  | 7454.9  | 7254.4  | 7135.7  |
| 15°   | 9411.1  | 9335.7  | 9194.4  | 9126.1  | 8977.9  | 8857.1  | 8747.6  | 8551.5  | 8446.7  | 8259.7  | 8104.7  |
| 17.5° | 10368.5 | 10288.7 | 10165.7 | 10104.0 | 9960.4  | 9837.3  | 9718.9  | 9534.2  | 9427.1  | 9240.1  | 9101.0  |
| 20°   | 11257.6 | 11198.5 | 11109.5 | 11027.5 | 10883.8 | 10772.0 | 10630.7 | 10471.2 | 10316.1 | 10179.4 | 10047.2 |
| 22.5° | 12032.7 | 12010.0 | 11914.3 | 11877.7 | 11754.7 | 11658.9 | 11535.9 | 11378.6 | 11266.8 | 11093.4 | 10970.5 |
| 25°   | 12700.7 | 12693.9 | 12648.3 | 12636.9 | 12550.3 | 12459.1 | 12431.7 | 12301.7 | 12199.3 | 12046.5 | 11918.8 |
| 27.5° | 13275.3 | 13282.2 | 13270.8 | 13302.7 | 13279.9 | 13238.9 | 13241.0 | 13197.8 | 13138.5 | 13010.8 | 12899.1 |
| 30°   | 13913.7 | 13877.1 | 13897.7 | 13943.3 | 13957.0 | 13961.5 | 14036.7 | 14061.9 | 14057.2 | 13973.0 | 13918.2 |
| 32.5° | 14816.5 | 14729.8 | 14650.0 | 14643.2 | 14688.7 | 14707.1 | 14834.7 | 14900.8 | 14957.8 | 14978.2 | 14987.4 |
| 35°   | 15967.7 | 15794.4 | 15628.1 | 15539.2 | 15461.6 | 15482.2 | 15573.3 | 15680.5 | 15805.9 | 15892.5 | 15995.1 |
| 37.5° | 17417.6 | 17205.6 | 16911.6 | 16701.8 | 16649.5 | 16535.5 | 16594.7 | 16679.1 | 16802.2 | 16936.6 | 17114.5 |
| 40°   | 19175.4 | 18853.9 | 18523.4 | 18245.3 | 18094.7 | 17885.1 | 17882.7 | 17866.7 | 17942.0 | 18067.5 | 18318.2 |
| 42.5° | 20867.1 | 20582.1 | 20231.0 | 19939.1 | 19743.0 | 19462.7 | 19405.6 | 19257.5 | 19291.7 | 19401.1 | 19645.0 |
| 45°   | 22451.5 | 22216.7 | 22002.4 | 21665.1 | 21498.5 | 21195.4 | 21099.6 | 20924.0 | 20826.0 | 20876.3 | 21120.1 |
| 47.5° | 23985.9 | 23835.4 | 23611.9 | 23393.1 | 23265.5 | 22994.2 | 22870.9 | 22745.7 | 22620.2 | 22615.6 | 22870.9 |
| 50°   | 26976.9 | 26897.1 | 26632.7 | 26404.7 | 26466.3 | 26133.4 | 26154.0 | 25816.5 | 25969.2 | 25987.4 | 26523.3 |
| 52.5° | 29787.9 | 30066.1 | 30262.1 | 30501.5 | 30656.5 | 30686.2 | 30788.8 | 30941.5 | 31126.2 | 31491.0 | 31987.9 |
| 55°   | 31397.5 | 31746.3 | 31949.2 | 32131.6 | 32432.4 | 32496.4 | 32667.4 | 32870.2 | 33032.0 | 33442.6 | 33864.2 |
| 57.5° | 33310.2 | 33957.6 | 34272.3 | 34561.8 | 34967.7 | 35122.7 | 35407.7 | 35628.8 | 35838.5 | 36324.1 | 36834.8 |
| 60°   | 34488.8 | 35277.7 | 35918.3 | 36376.5 | 36884.9 | 37249.7 | 37680.7 | 38027.1 | 38519.6 | 39101.0 | 39862.4 |
| 62.5° | 33551.9 | 34710.0 | 35560.5 | 36347.0 | 37037.7 | 37735.3 | 38353.1 | 39000.6 | 39748.5 | 40628.5 | 41809.4 |
| 65°   | 29819.9 | 30998.5 | 32455.4 | 33271.5 | 34185.7 | 35261.8 | 36201.1 | 37249.7 | 38268.9 | 39550.0 | 41296.4 |
| 67.5° | 24006.3 | 25376.5 | 27013.4 | 27836.4 | 28887.4 | 30088.9 | 31142.1 | 32423.5 | 33613.5 | 35165.9 | 37324.9 |
| 70°   | 17303.7 | 19075.1 | 20452.2 | 21311.6 | 22538.1 | 23776.1 | 24793.0 | 26283.9 | 27268.8 | 28860.0 | 31092.0 |
| 72.5° | 10956.7 | 12354.3 | 14041.3 | 15124.3 | 16214.0 | 17467.8 | 18507.5 | 19793.3 | 20712.0 | 22161.9 | 24184.2 |
| 75°   | 5891.1  | 6921.5  | 8403.4  | 9431.6  | 10598.8 | 11670.3 | 12887.8 | 13749.5 | 14428.8 | 15575.6 | 17217.0 |
| 77.5° | 2760.9  | 3387.8  | 4137.9  | 4928.9  | 5720.0  | 6545.3  | 7347.7  | 8045.4  | 8337.3  | 8993.8  | 9962.7  |
| 80°   | 1675.7  | 1878.5  | 2097.5  | 2341.3  | 2671.9  | 2938.6  | 3292.1  | 3547.3  | 3565.6  | 3773.2  | 4069.4  |
| 82.5° | 1119.4  | 1194.7  | 1260.7  | 1322.2  | 1406.7  | 1472.7  | 1548.0  | 1636.9  | 1673.5  | 1721.2  | 1817.0  |
| 85°   | 763.6   | 800.2   | 813.9   | 852.6   | 843.5   | 866.3   | 896.0   | 925.7   | 941.6   | 939.3   | 982.6   |
| 87.5° | 469.6   | 487.9   | 497.0   | 506.1   | 499.3   | 490.1   | 503.8   | 519.8   | 524.3   | 510.6   | 515.3   |
| 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°    | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5  | 3914.5 | 3914.5 | 3914.5 | 3914.5 |
| 2.5°  | 4178.8  | 4158.3  | 4137.9  | 4124.2  | 4119.5  | 3998.7  | 3946.3  | 3912.2 | 3839.1 | 3779.9 | 3732.1 |
| 5°    | 4609.7  | 4566.4  | 4532.3  | 4491.3  | 4468.3  | 4162.9  | 4051.3  | 3973.7 | 3846.1 | 3770.7 | 3702.5 |
| 7.5°  | 5302.9  | 5182.1  | 5111.4  | 5031.5  | 4963.1  | 4411.4  | 4226.7  | 4106.0 | 3928.1 | 3827.8 | 3750.2 |
| 10°   | 6089.4  | 5963.9  | 5852.3  | 5729.1  | 5622.0  | 4742.1  | 4473.0  | 4286.1 | 4051.3 | 3921.3 | 3818.6 |
| 12.5° | 6967.1  | 6843.9  | 6702.7  | 6545.3  | 6408.5  | 5161.5  | 4787.5  | 4520.9 | 4199.3 | 4026.2 | 3882.6 |
| 15°   | 8004.3  | 7787.9  | 7616.8  | 7434.5  | 7274.8  | 5663.1  | 5154.7  | 4785.4 | 4356.7 | 4122.0 | 3930.4 |
| 17.5° | 8968.8  | 8740.8  | 8508.2  | 8348.7  | 8163.9  | 6226.2  | 5523.9  | 5054.4 | 4486.7 | 4183.4 | 3939.4 |
| 20°   | 9910.3  | 9661.8  | 9461.2  | 9247.0  | 9053.1  | 6809.8  | 5918.4  | 5291.5 | 4571.0 | 4185.7 | 3882.6 |
| 22.5° | 10740.1 | 10585.2 | 10361.7 | 10129.2 | 9933.1  | 7393.4  | 6287.6  | 5492.1 | 4602.9 | 4133.3 | 3782.3 |
| 25°   | 11684.1 | 11519.9 | 11246.3 | 11050.2 | 10831.4 | 7988.4  | 6650.2  | 5647.0 | 4584.7 | 4035.2 | 3627.1 |
| 27.5° | 12691.7 | 12509.3 | 12228.8 | 12023.8 | 11759.3 | 8606.2  | 6983.1  | 5758.8 | 4516.3 | 3875.6 | 3419.7 |
| 30°   | 13742.7 | 13576.3 | 13300.3 | 13092.9 | 12826.2 | 9260.5  | 7354.7  | 5834.0 | 4379.4 | 3654.6 | 3178.1 |
| 32.5° | 14871.3 | 14732.2 | 14458.5 | 14242.0 | 13957.0 | 9969.6  | 7701.2  | 5856.8 | 4172.1 | 3392.4 | 2922.7 |
| 35°   | 15942.7 | 15846.9 | 15616.7 | 15413.7 | 15117.3 | 10639.9 | 8068.2  | 5845.5 | 3925.9 | 3105.1 | 2690.2 |
| 37.5° | 17148.7 | 17091.7 | 16977.6 | 16720.2 | 16357.5 | 11549.5 | 8508.2  | 5797.5 | 3624.9 | 2820.0 | 2512.3 |
| 40°   | 18434.5 | 18439.1 | 18315.9 | 18140.5 | 17803.0 | 12652.9 | 9032.5  | 5704.1 | 3296.6 | 2569.3 | 2350.4 |
| 42.5° | 19795.5 | 19866.2 | 19807.0 | 19681.5 | 19357.8 | 13765.4 | 9659.6  | 5590.2 | 2977.4 | 2325.4 | 2190.8 |
| 45°   | 21355.0 | 21441.6 | 21532.7 | 21348.1 | 21033.5 | 15233.6 | 10484.8 | 5441.9 | 2633.2 | 2122.4 | 2081.5 |
| 47.5° | 23153.8 | 23290.4 | 23372.6 | 23374.8 | 23060.2 | 17053.0 | 11825.4 | 5353.0 | 2327.7 | 1985.8 | 2029.0 |
| 50°   | 26949.6 | 26992.9 | 27186.7 | 27524.1 | 27282.5 | 21263.7 | 14166.7 | 5298.3 | 2120.2 | 1901.4 | 1990.3 |
| 52.5° | 32418.8 | 32895.4 | 33230.5 | 33207.6 | 32879.4 | 23937.9 | 15457.0 | 5015.5 | 1997.1 | 1869.5 | 1972.0 |
| 55°   | 34646.2 | 35241.2 | 35861.3 | 36025.4 | 35770.1 | 26220.1 | 16676.8 | 4732.9 | 1937.9 | 1892.2 | 1978.8 |
| 57.5° | 37614.5 | 38617.6 | 39468.0 | 39825.8 | 39456.7 | 29140.5 | 18281.8 | 4584.7 | 1919.6 | 1953.9 | 2022.2 |
| 60°   | 41082.0 | 42322.2 | 43439.3 | 44082.3 | 44082.3 | 32496.4 | 19946.1 | 4523.1 | 1894.5 | 2045.0 | 2095.1 |
| 62.5° | 43309.4 | 45131.0 | 46818.0 | 47759.6 | 47732.2 | 34833.1 | 20684.6 | 4313.4 | 1837.6 | 2108.9 | 2195.5 |
| 65°   | 43318.5 | 45484.4 | 47634.2 | 48692.1 | 48746.7 | 34545.8 | 19465.0 | 3809.5 | 1732.7 | 2117.9 | 2295.8 |
| 67.5° | 39707.4 | 42016.9 | 44522.3 | 45705.6 | 45979.0 | 31801.0 | 16850.0 | 3132.5 | 1561.7 | 2026.8 | 2332.2 |
| 70°   | 33536.0 | 35790.7 | 38348.6 | 39511.3 | 39996.9 | 27109.2 | 13571.7 | 2414.4 | 1342.7 | 1826.2 | 2257.0 |
| 72.5° | 26420.7 | 28632.0 | 30412.6 | 31263.0 | 31641.4 | 20721.2 | 9883.0  | 1823.9 | 1101.1 | 1538.8 | 2054.2 |
| 75°   | 18705.8 | 20365.6 | 21311.6 | 21500.8 | 21560.1 | 12491.0 | 6005.0  | 1356.5 | 907.4  | 1196.9 | 1734.9 |
| 77.5° | 10557.8 | 11269.1 | 11191.5 | 11276.0 | 10573.7 | 4821.8  | 2615.0  | 971.2  | 747.7  | 909.7  | 1345.1 |
| 80°   | 4122.0  | 4249.5  | 3992.0  | 3912.2  | 3588.4  | 1794.3  | 1153.6  | 677.1  | 597.4  | 688.6  | 941.6  |
| 82.5° | 1817.0  | 1876.3  | 1821.6  | 1835.2  | 1755.5  | 925.7   | 690.7   | 490.1  | 456.0  | 503.8  | 624.7  |
| 85°   | 1000.8  | 1019.0  | 1014.5  | 1044.2  | 1000.8  | 369.4   | 328.3   | 300.9  | 319.2  | 342.0  | 401.3  |
| 87.5° | 487.9   | 492.5   | 476.6   | 501.6   | 485.7   | 186.9   | 161.9   | 170.9  | 186.9  | 191.5  | 191.5  |
| 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):**

|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 3914.5 | 3914.5 | 3914.5 | 3914.5 | 3914.5 | 3914.5 |
| 2.5°  | 3697.9 | 3679.5 | 3682.0 | 3677.3 | 3668.1 | 3668.1 |
| 5°    | 3666.0 | 3647.7 | 3647.7 | 3643.2 | 3631.8 | 3634.1 |
| 7.5°  | 3697.9 | 3668.1 | 3656.8 | 3640.8 | 3624.9 | 3624.9 |
| 10°   | 3734.3 | 3682.0 | 3650.0 | 3622.7 | 3602.2 | 3602.2 |
| 12.5° | 3761.7 | 3679.5 | 3627.1 | 3590.6 | 3570.1 | 3570.1 |
| 15°   | 3770.7 | 3663.6 | 3590.6 | 3547.3 | 3529.1 | 3526.8 |
| 17.5° | 3741.1 | 3602.2 | 3513.2 | 3463.1 | 3440.1 | 3433.4 |
| 20°   | 3650.0 | 3490.4 | 3383.2 | 3326.2 | 3294.4 | 3282.9 |
| 22.5° | 3513.2 | 3330.7 | 3205.4 | 3146.1 | 3105.1 | 3098.3 |
| 25°   | 3321.7 | 3125.7 | 3002.6 | 2945.5 | 2922.7 | 2915.9 |
| 27.5° | 3098.3 | 2915.9 | 2810.9 | 2774.5 | 2754.1 | 2751.7 |
| 30°   | 2886.3 | 2731.1 | 2653.8 | 2626.4 | 2601.2 | 2596.7 |
| 32.5° | 2687.9 | 2589.9 | 2560.2 | 2521.5 | 2462.2 | 2455.3 |
| 35°   | 2546.5 | 2537.4 | 2517.0 | 2430.3 | 2357.3 | 2336.9 |
| 37.5° | 2459.9 | 2544.3 | 2439.3 | 2268.4 | 2215.9 | 2211.4 |
| 40°   | 2409.8 | 2473.7 | 2293.6 | 2234.3 | 2238.8 | 2234.3 |
| 42.5° | 2295.8 | 2361.9 | 2298.0 | 2270.6 | 2288.9 | 2293.6 |
| 45°   | 2181.8 | 2254.7 | 2332.2 | 2314.0 | 2357.3 | 2357.3 |
| 47.5° | 2117.9 | 2227.3 | 2329.9 | 2329.9 | 2393.9 | 2416.6 |
| 50°   | 2045.0 | 2204.6 | 2293.6 | 2325.4 | 2375.6 | 2357.3 |
| 52.5° | 2040.4 | 2165.9 | 2241.0 | 2298.0 | 2320.9 | 2300.3 |
| 55°   | 2047.2 | 2134.0 | 2188.6 | 2252.4 | 2279.8 | 2282.1 |
| 57.5° | 2056.4 | 2115.7 | 2152.1 | 2181.8 | 2263.9 | 2263.9 |
| 60°   | 2079.1 | 2099.7 | 2120.2 | 2136.2 | 2243.3 | 2245.7 |
| 62.5° | 2115.7 | 2083.8 | 2079.1 | 2095.1 | 2231.8 | 2222.8 |
| 65°   | 2172.6 | 2060.9 | 2026.8 | 2042.7 | 2220.5 | 2193.2 |
| 67.5° | 2250.2 | 2026.8 | 1960.6 | 1972.0 | 2211.4 | 2152.1 |
| 70°   | 2320.9 | 1972.0 | 1878.5 | 1867.1 | 2124.9 | 2019.8 |
| 72.5° | 2327.7 | 1908.2 | 1764.6 | 1730.3 | 1846.6 | 1746.3 |
| 75°   | 2213.8 | 1864.9 | 1639.1 | 1538.8 | 1525.2 | 1511.5 |
| 77.5° | 1994.9 | 1839.8 | 1493.3 | 1336.0 | 1308.7 | 1317.8 |
| 80°   | 1668.8 | 1746.3 | 1317.8 | 1130.7 | 1278.9 | 1262.9 |
| 82.5° | 1247.0 | 1541.1 | 1119.4 | 1000.8 | 998.6  | 882.2  |
| 85°   | 693.0  | 1201.5 | 911.9  | 750.1  | 522.0  | 506.1  |
| 87.5° | 193.8  | 668.0  | 638.3  | 424.0  | 289.6  | 300.9  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)