

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: McGRAW-EDISON

Report Number: P953198

Luminaire Tested: **GALN-SB6D-827-U-SLL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-827-U-SLL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

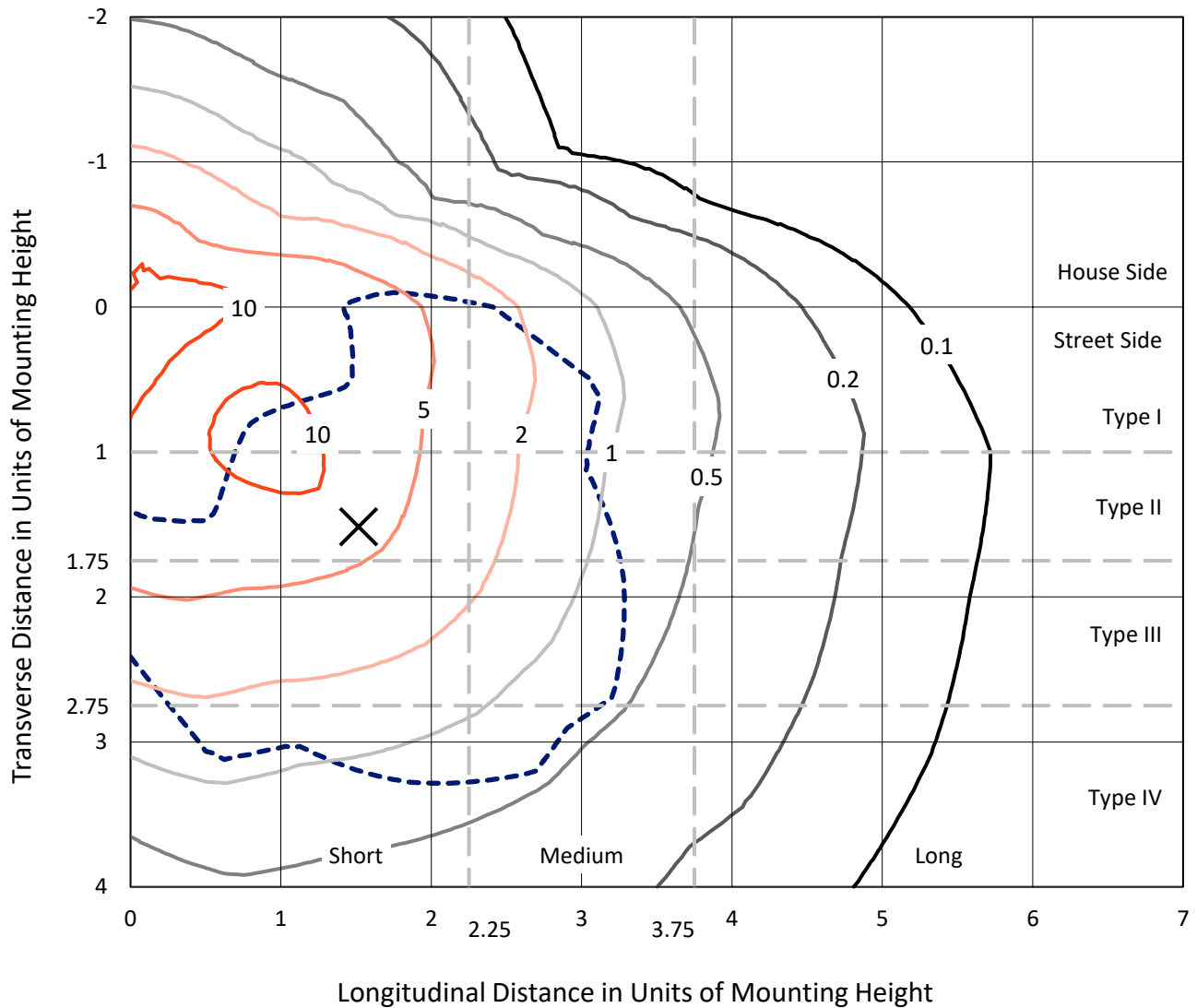
Lumens per Lamp: N/A  
Luminaire Lumens: 53467 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

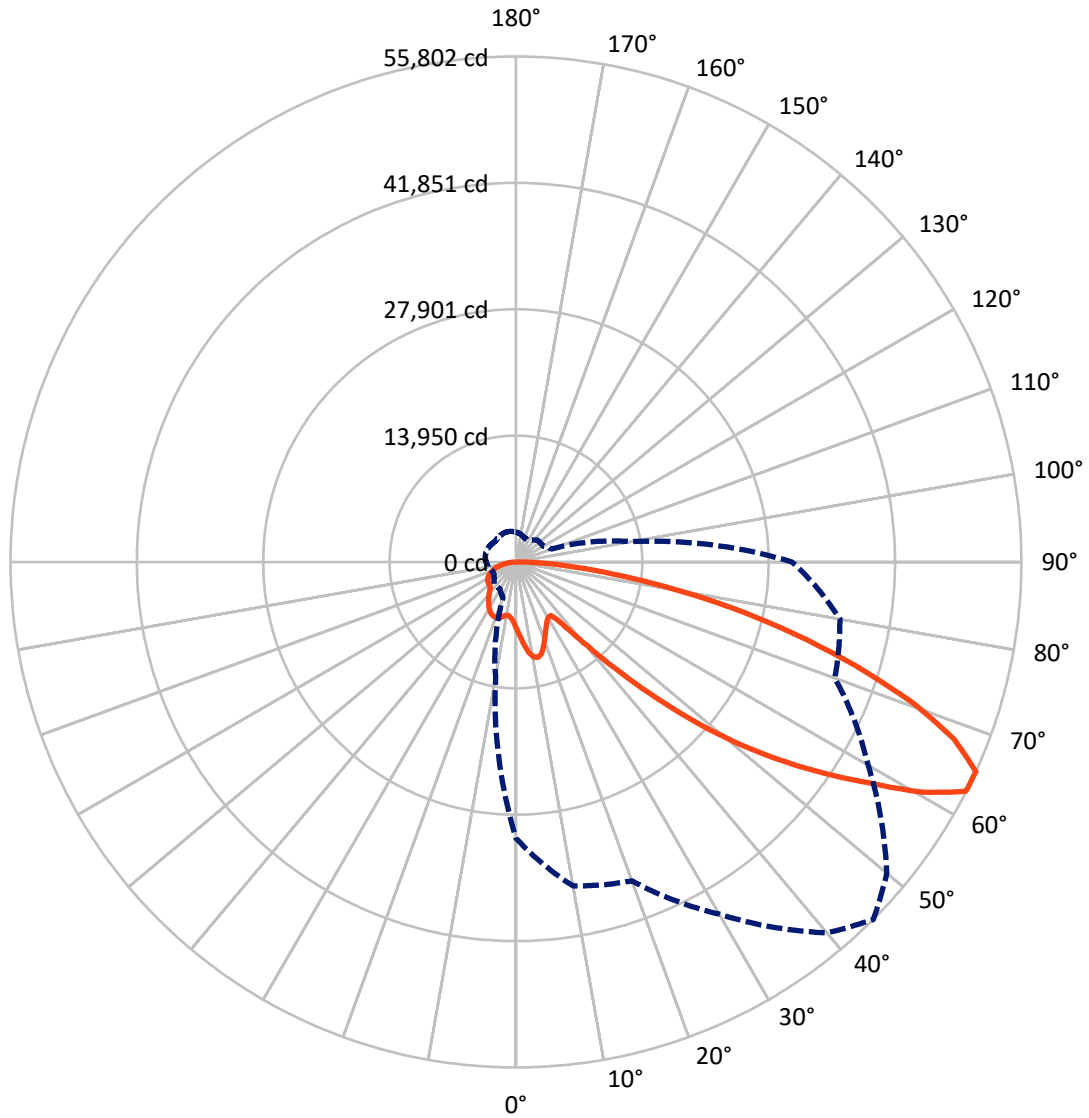
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13588.6  | 0.0    | 13588.6 |
|                    | % Fixture | 25.4     | 0.0    | 25.4    |
| <b>Street Side</b> | Lumens    | 39878.4  | 0.0    | 39878.4 |
|                    | % Fixture | 74.6     | 0.0    | 74.6    |
| <b>Total</b>       | Lumens    | 53467.0  | 0.0    | 53467.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 729.3   | 1.4       |
| 10°-20°   | 2289.5  | 4.3       |
| 20°-30°   | 3536.5  | 6.6       |
| 30°-40°   | 4481.6  | 8.4       |
| 40°-50°   | 6759.5  | 12.6      |
| 50°-60°   | 10920.9 | 20.4      |
| 60°-70°   | 13614.6 | 25.5      |
| 70°-80°   | 8927.8  | 16.7      |
| 80°-90°   | 2207.2  | 4.1       |
| 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°    | 53467.0 | 100.0     |
| 0°-180°   | 53467.0 | 100.0     |



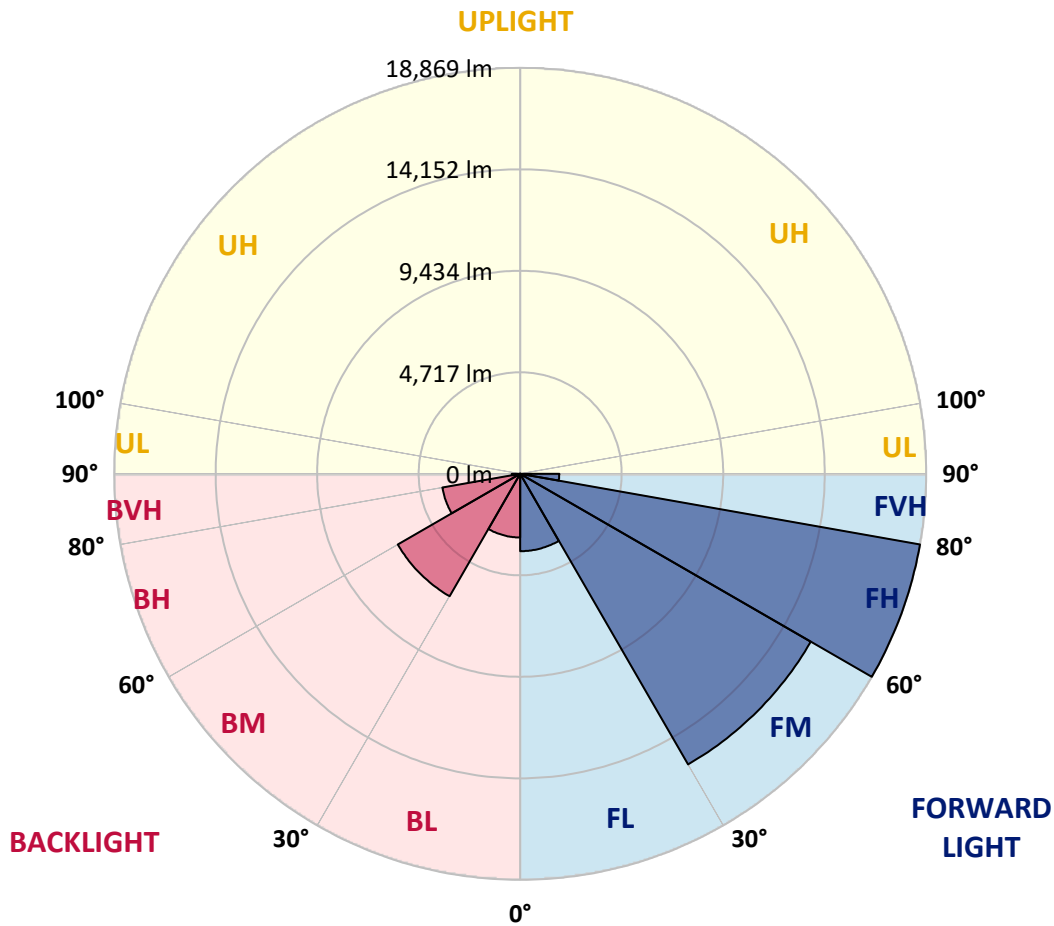
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3596.3  | 6.7       |                         |      |         |
| FM (30°-60°)   | 15595.2 | 29.2      |                         |      |         |
| FH (60°-80°)   | 18868.7 | 35.3      |                         |      | G5      |
| FVH (80°-90°)  | 1818.2  | 3.4       |                         |      | G5      |
| BL (0°-30°)    | 2959.1  | 5.5       | B4/5000                 |      |         |
| BM (30°-60°)   | 6566.9  | 12.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 3673.7  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 388.9   | 0.7       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  |
| 2.5°  | 7906.5  | 7936.5  | 7966.6  | 8009.2  | 8051.8  | 8077.2  | 8102.6  | 8115.3  | 8128.0  | 8122.4  |
| 5°    | 8501.8  | 8606.5  | 8711.5  | 8815.3  | 8919.4  | 8975.8  | 9032.2  | 9066.4  | 9100.8  | 9126.7  |
| 7.5°  | 9099.9  | 9270.3  | 9440.5  | 9593.7  | 9746.8  | 9839.1  | 9931.4  | 9981.3  | 10030.9 | 10054.9 |
| 10°   | 9558.4  | 9759.8  | 9961.3  | 10141.0 | 10320.7 | 10429.6 | 10537.9 | 10586.5 | 10634.7 | 10653.0 |
| 12.5° | 9839.1  | 10057.5 | 10275.6 | 10438.1 | 10600.0 | 10679.0 | 10758.0 | 10784.5 | 10811.0 | 10813.8 |
| 15°   | 10009.8 | 10198.2 | 10386.4 | 10488.3 | 10590.4 | 10593.2 | 10596.0 | 10567.8 | 10539.6 | 10506.3 |
| 17.5° | 10105.7 | 10232.9 | 10360.2 | 10362.2 | 10363.9 | 10249.6 | 10135.3 | 10030.7 | 9925.7  | 9851.8  |
| 20°   | 10211.5 | 10255.8 | 10300.4 | 10166.4 | 10032.4 | 9780.1  | 9527.9  | 9344.3  | 9160.6  | 9047.7  |
| 22.5° | 10334.2 | 10276.1 | 10218.0 | 9940.4  | 9662.8  | 9291.8  | 8920.8  | 8691.1  | 8461.5  | 8336.8  |
| 25°   | 10492.2 | 10308.8 | 10125.5 | 9704.0  | 9282.5  | 8831.9  | 8381.4  | 8139.9  | 7898.9  | 7781.0  |
| 27.5° | 10706.6 | 10378.8 | 10050.7 | 9492.4  | 8934.3  | 8435.0  | 7935.6  | 7698.1  | 7460.8  | 7349.4  |
| 30°   | 10995.8 | 10506.9 | 10018.3 | 9331.0  | 8643.7  | 8123.5  | 7603.3  | 7382.9  | 7162.6  | 7058.8  |
| 32.5° | 11337.2 | 10667.7 | 9998.5  | 9221.0  | 8443.4  | 7954.5  | 7465.6  | 7292.6  | 7119.4  | 7044.7  |
| 35°   | 11751.9 | 10932.6 | 10113.6 | 9303.3  | 8493.4  | 8153.7  | 7814.3  | 7773.9  | 7733.6  | 7727.4  |
| 37.5° | 12450.2 | 11486.4 | 10522.7 | 9786.3  | 9050.0  | 9028.0  | 9006.0  | 9190.5  | 9375.0  | 9470.9  |
| 40°   | 13505.3 | 12457.2 | 11409.1 | 10861.5 | 10313.9 | 10700.4 | 11086.9 | 11535.5 | 11984.1 | 12207.5 |
| 42.5° | 14904.7 | 13864.7 | 12824.8 | 12509.4 | 12194.0 | 13037.0 | 13880.0 | 14695.9 | 15511.8 | 15990.8 |
| 45°   | 16632.7 | 15698.6 | 14764.2 | 14625.1 | 14485.7 | 15836.2 | 17187.0 | 18527.7 | 19868.6 | 20682.6 |
| 47.5° | 18793.7 | 17885.0 | 16976.0 | 16947.8 | 16919.6 | 18867.9 | 20815.7 | 22778.5 | 24740.9 | 25893.4 |
| 50°   | 21626.3 | 20503.7 | 19381.4 | 19386.2 | 19391.0 | 21901.9 | 24412.8 | 27003.6 | 29594.3 | 31160.7 |
| 52.5° | 24877.8 | 23518.5 | 22159.5 | 22022.1 | 21884.4 | 24883.7 | 27883.0 | 31088.5 | 34293.7 | 36171.2 |
| 55°   | 28339.4 | 26996.5 | 25653.6 | 25117.9 | 24582.1 | 27920.2 | 31258.0 | 35079.4 | 38900.8 | 41133.8 |
| 57.5° | 31488.0 | 30756.7 | 30025.1 | 28950.5 | 27876.2 | 31246.7 | 34617.3 | 38945.6 | 43273.7 | 46042.8 |
| 60°   | 33390.9 | 34526.7 | 35662.8 | 34328.4 | 32993.9 | 36183.6 | 39373.3 | 44007.5 | 48641.7 | 51634.5 |
| 62.5° | 32424.6 | 35528.3 | 38631.9 | 38481.5 | 38330.9 | 41252.9 | 44175.1 | 48584.2 | 52992.9 | 55759.2 |
| 65°   | 30490.6 | 33403.6 | 36316.5 | 36892.9 | 37469.0 | 41182.3 | 44895.9 | 49171.3 | 53446.3 | 55801.5 |
| 67.5° | 27899.3 | 30669.8 | 33440.3 | 33710.5 | 33980.5 | 37849.6 | 41718.4 | 46012.0 | 50305.7 | 52150.8 |
| 70°   | 24786.1 | 27799.5 | 30813.1 | 30933.9 | 31054.9 | 34514.9 | 37974.6 | 41669.6 | 45364.3 | 46389.8 |
| 72.5° | 21076.1 | 24534.1 | 27992.4 | 28079.3 | 28165.9 | 30872.9 | 33579.9 | 36347.3 | 39114.4 | 39218.2 |
| 75°   | 16383.0 | 19962.0 | 23541.1 | 23862.4 | 24183.7 | 26289.8 | 28395.9 | 30343.9 | 32292.0 | 31770.1 |
| 77.5° | 11705.4 | 15046.3 | 18387.5 | 18847.3 | 19307.2 | 20908.3 | 22509.3 | 23890.9 | 25272.7 | 24375.6 |
| 80°   | 7661.1  | 10471.9 | 13282.4 | 13854.0 | 14425.6 | 15634.8 | 16843.4 | 17569.0 | 18294.4 | 16851.3 |
| 82.5° | 4453.3  | 6374.9  | 8296.7  | 8935.2  | 9573.9  | 10406.2 | 11238.4 | 11541.2 | 11843.6 | 10709.5 |
| 85°   | 1959.4  | 2979.2  | 3999.1  | 4542.2  | 5085.3  | 5769.2  | 6452.8  | 6624.6  | 6796.4  | 5887.9  |
| 87.5° | 606.6   | 949.4   | 1292.1  | 1595.1  | 1898.1  | 2240.1  | 2582.0  | 2596.7  | 2611.1  | 2192.1  |
| 90°   | 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):**

| 50°     |       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 7352.2  | 0°    | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  | 7352.2  |
| 8128.0  | 2.5°  | 8115.3  | 8102.6  | 8077.2  | 8051.8  | 8009.2  | 7966.6  | 7936.5  | 7906.5  | 7845.9  | 7785.2  |
| 9100.8  | 5°    | 9066.4  | 9032.2  | 8975.8  | 8919.4  | 8815.3  | 8711.5  | 8606.5  | 8501.8  | 8367.8  | 8233.8  |
| 10030.9 | 7.5°  | 9981.3  | 9931.4  | 9839.1  | 9746.8  | 9593.7  | 9440.5  | 9270.3  | 9099.9  | 8878.8  | 8657.8  |
| 10634.7 | 10°   | 10586.5 | 10537.9 | 10429.6 | 10320.7 | 10141.0 | 9961.3  | 9759.8  | 9558.4  | 9278.8  | 8999.2  |
| 10811.0 | 12.5° | 10784.5 | 10758.0 | 10679.0 | 10600.0 | 10438.1 | 10275.6 | 10057.5 | 9839.1  | 9531.9  | 9224.9  |
| 10539.6 | 15°   | 10567.8 | 10596.0 | 10593.2 | 10590.4 | 10488.3 | 10386.4 | 10198.2 | 10009.8 | 9689.6  | 9369.4  |
| 9925.7  | 17.5° | 10030.7 | 10135.3 | 10249.6 | 10363.9 | 10362.2 | 10360.2 | 10232.9 | 10105.7 | 9781.0  | 9456.3  |
| 9160.6  | 20°   | 9344.3  | 9527.9  | 9780.1  | 10032.4 | 10166.4 | 10300.4 | 10255.8 | 10211.5 | 9874.1  | 9536.4  |
| 8461.5  | 22.5° | 8691.1  | 8920.8  | 9291.8  | 9662.8  | 9940.4  | 10218.0 | 10276.1 | 10334.2 | 9989.5  | 9644.4  |
| 7898.9  | 25°   | 8139.9  | 8381.4  | 8831.9  | 9282.5  | 9704.0  | 10125.5 | 10308.8 | 10492.2 | 10154.2 | 9816.5  |
| 7460.8  | 27.5° | 7698.1  | 7935.6  | 8435.0  | 8934.3  | 9492.4  | 10050.7 | 10378.8 | 10706.6 | 10384.5 | 10062.0 |
| 7162.6  | 30°   | 7382.9  | 7603.3  | 8123.5  | 8643.7  | 9331.0  | 10018.3 | 10506.9 | 10995.8 | 10684.3 | 10373.2 |
| 7119.4  | 32.5° | 7292.6  | 7465.6  | 7954.5  | 8443.4  | 9221.0  | 9998.5  | 10667.7 | 11337.2 | 11028.8 | 10720.7 |
| 7733.6  | 35°   | 7773.9  | 7814.3  | 8153.7  | 8493.4  | 9303.3  | 10113.6 | 10932.6 | 11751.9 | 11456.8 | 11161.4 |
| 9375.0  | 37.5° | 9190.5  | 9006.0  | 9028.0  | 9050.0  | 9786.3  | 10522.7 | 11486.4 | 12450.2 | 12073.8 | 11697.5 |
| 11984.1 | 40°   | 11535.5 | 11086.9 | 10700.4 | 10313.9 | 10861.5 | 11409.1 | 12457.2 | 13505.3 | 12956.9 | 12408.4 |
| 15511.8 | 42.5° | 14695.9 | 13880.0 | 13037.0 | 12194.0 | 12509.4 | 12824.8 | 13864.7 | 14904.7 | 14113.0 | 13321.4 |
| 19868.6 | 45°   | 18527.7 | 17187.0 | 15836.2 | 14485.7 | 14625.1 | 14764.2 | 15698.6 | 16632.7 | 15564.8 | 14497.0 |
| 24740.9 | 47.5° | 22778.5 | 20815.7 | 18867.9 | 16919.6 | 16947.8 | 16976.0 | 17885.0 | 18793.7 | 17290.9 | 15787.7 |
| 29594.3 | 50°   | 27003.6 | 24412.8 | 21901.9 | 19391.0 | 19386.2 | 19381.4 | 20503.7 | 21626.3 | 19360.5 | 17094.5 |
| 34293.7 | 52.5° | 31088.5 | 27883.0 | 24883.7 | 21884.4 | 22022.1 | 22159.5 | 23518.5 | 24877.8 | 21534.6 | 18191.4 |
| 38900.8 | 55°   | 35079.4 | 31258.0 | 27920.2 | 24582.1 | 25117.9 | 25653.6 | 26996.5 | 28339.4 | 23462.1 | 18585.0 |
| 43273.7 | 57.5° | 38945.6 | 34617.3 | 31246.7 | 27876.2 | 28950.5 | 30025.1 | 30756.7 | 31488.0 | 24828.1 | 18168.3 |
| 48641.7 | 60°   | 44007.5 | 39373.3 | 36183.6 | 32993.9 | 34328.4 | 35662.8 | 34526.7 | 33390.9 | 25169.5 | 16947.8 |
| 52992.9 | 62.5° | 48584.2 | 44175.1 | 41252.9 | 38330.9 | 38481.5 | 38631.9 | 35528.3 | 32424.6 | 23732.1 | 15039.5 |
| 53446.3 | 65°   | 49171.3 | 44895.9 | 41182.3 | 37469.0 | 36892.9 | 36316.5 | 33403.6 | 30490.6 | 21698.2 | 12905.8 |
| 50305.7 | 67.5° | 46012.0 | 41718.4 | 37849.6 | 33980.5 | 33710.5 | 33440.3 | 30669.8 | 27899.3 | 19277.9 | 10656.4 |
| 45364.3 | 70°   | 41669.6 | 37974.6 | 34514.9 | 31054.9 | 30933.9 | 30813.1 | 27799.5 | 24786.1 | 16636.9 | 8487.7  |
| 39114.4 | 72.5° | 36347.3 | 33579.9 | 30872.9 | 28165.9 | 28079.3 | 27992.4 | 24534.1 | 21076.1 | 13773.9 | 6471.9  |
| 32292.0 | 75°   | 30343.9 | 28395.9 | 26289.8 | 24183.7 | 23862.4 | 23541.1 | 19962.0 | 16383.0 | 10491.9 | 4600.9  |
| 25272.7 | 77.5° | 23890.9 | 22509.3 | 20908.3 | 19307.2 | 18847.3 | 18387.5 | 15046.3 | 11705.4 | 7343.4  | 2981.5  |
| 18294.4 | 80°   | 17569.0 | 16843.4 | 15634.8 | 14425.6 | 13854.0 | 13282.4 | 10471.9 | 7661.1  | 4731.2  | 1801.4  |
| 11843.6 | 82.5° | 11541.2 | 11238.4 | 10406.2 | 9573.9  | 8935.2  | 8296.7  | 6374.9  | 4453.3  | 2738.3  | 1023.5  |
| 6796.4  | 85°   | 6624.6  | 6452.8  | 5769.2  | 5085.3  | 4542.2  | 3999.1  | 2979.2  | 1959.4  | 1231.8  | 504.4   |
| 2611.1  | 87.5° | 2596.7  | 2582.0  | 2240.1  | 1898.1  | 1595.1  | 1292.1  | 949.4   | 606.6   | 403.4   | 200.3   |
| 0.0     | 90°   | 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):**

| 105°    |       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7352.2  | 0°    | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 |
| 7720.6  | 2.5°  | 7656.3 | 7591.4 | 7526.5 | 7464.5 | 7402.4 | 7342.3 | 7275.4 | 7221.3 | 7167.4 | 7118.6 |
| 8100.1  | 5°    | 7966.6 | 7832.1 | 7697.8 | 7572.2 | 7446.7 | 7328.2 | 7211.1 | 7109.0 | 7006.6 | 6920.8 |
| 8453.6  | 7.5°  | 8249.3 | 8050.4 | 7851.5 | 7676.3 | 7501.1 | 7339.5 | 7188.0 | 7052.0 | 6916.3 | 6803.4 |
| 8729.2  | 10°   | 8459.5 | 8218.0 | 7976.2 | 7769.2 | 7561.5 | 7362.0 | 7199.3 | 7055.9 | 6912.6 | 6799.8 |
| 8919.1  | 12.5° | 8613.3 | 8328.3 | 8043.4 | 7808.9 | 7574.5 | 7364.9 | 7213.4 | 7096.0 | 6979.2 | 6904.2 |
| 9037.6  | 15°   | 8705.8 | 8377.7 | 8049.6 | 7778.2 | 7506.8 | 7274.6 | 7153.3 | 7097.1 | 7041.3 | 7051.4 |
| 9094.3  | 17.5° | 8732.3 | 8351.5 | 7970.6 | 7644.2 | 7317.8 | 7044.7 | 6969.9 | 6990.5 | 7010.8 | 7133.8 |
| 9138.6  | 20°   | 8740.8 | 8279.2 | 7817.7 | 7413.1 | 7008.5 | 6690.6 | 6670.8 | 6766.8 | 6862.7 | 7076.3 |
| 9198.4  | 22.5° | 8752.1 | 8190.6 | 7629.2 | 7142.0 | 6654.8 | 6292.8 | 6331.4 | 6473.4 | 6615.3 | 6859.0 |
| 9306.7  | 25°   | 8796.7 | 8103.2 | 7410.0 | 6839.3 | 6268.8 | 5897.8 | 6002.2 | 6165.8 | 6329.5 | 6548.7 |
| 9476.0  | 27.5° | 8889.8 | 8044.8 | 7199.8 | 6562.5 | 5925.2 | 5587.5 | 5714.4 | 5872.4 | 6030.4 | 6210.7 |
| 9695.2  | 30°   | 9017.3 | 8017.4 | 7017.0 | 6331.2 | 5645.3 | 5361.8 | 5461.4 | 5586.6 | 5712.5 | 5862.0 |
| 9924.0  | 32.5° | 9127.3 | 7983.6 | 6839.3 | 6131.7 | 5423.8 | 5195.3 | 5239.6 | 5313.8 | 5388.0 | 5507.4 |
| 10184.7 | 35°   | 9208.0 | 7919.8 | 6632.2 | 5935.6 | 5239.1 | 5048.6 | 5030.3 | 5050.6 | 5071.2 | 5162.3 |
| 10476.7 | 37.5° | 9256.0 | 7810.6 | 6365.3 | 5704.8 | 5044.4 | 4877.9 | 4810.8 | 4788.2 | 4765.7 | 4831.1 |
| 10847.4 | 40°   | 9286.1 | 7660.3 | 6034.7 | 5429.5 | 4824.3 | 4673.4 | 4570.4 | 4519.4 | 4468.3 | 4515.4 |
| 11332.4 | 42.5° | 9343.4 | 7505.1 | 5667.3 | 5125.6 | 4584.0 | 4444.9 | 4315.1 | 4247.4 | 4179.7 | 4218.0 |
| 11970.6 | 45°   | 9444.1 | 7360.9 | 5278.0 | 4802.9 | 4327.8 | 4186.7 | 4061.2 | 3995.2 | 3929.4 | 3961.6 |
| 12650.5 | 47.5° | 9513.2 | 7241.9 | 4970.5 | 4547.6 | 4124.7 | 3942.7 | 3834.6 | 3779.3 | 3724.0 | 3754.5 |
| 13281.3 | 50°   | 9468.1 | 7112.1 | 4756.1 | 4378.0 | 4000.0 | 3760.7 | 3635.2 | 3586.1 | 3537.3 | 3584.7 |
| 13691.0 | 52.5° | 9190.2 | 6892.9 | 4595.8 | 4266.3 | 3937.1 | 3662.0 | 3486.5 | 3438.0 | 3389.7 | 3461.1 |
| 13600.7 | 55°   | 8616.1 | 6529.5 | 4442.9 | 4185.3 | 3927.7 | 3671.9 | 3407.5 | 3330.8 | 3254.3 | 3355.6 |
| 12965.3 | 57.5° | 7762.7 | 6017.2 | 4271.4 | 4089.4 | 3907.4 | 3681.7 | 3360.1 | 3248.4 | 3136.7 | 3245.6 |
| 11782.9 | 60°   | 6618.1 | 5351.9 | 4085.7 | 3942.7 | 3799.7 | 3650.7 | 3315.5 | 3170.8 | 3025.8 | 3121.4 |
| 10184.1 | 62.5° | 5328.8 | 4555.8 | 3782.7 | 3687.7 | 3592.9 | 3574.5 | 3263.6 | 3082.5 | 2901.7 | 2962.3 |
| 8552.9  | 65°   | 4200.3 | 3839.4 | 3478.6 | 3433.7 | 3388.9 | 3391.1 | 3154.2 | 2961.7 | 2769.1 | 2792.5 |
| 6954.9  | 67.5° | 3253.5 | 3151.1 | 3048.4 | 3073.5 | 3098.3 | 3092.1 | 2958.9 | 2798.7 | 2638.4 | 2631.1 |
| 5476.0  | 70°   | 2464.4 | 2493.7 | 2522.8 | 2639.0 | 2754.9 | 2754.9 | 2711.2 | 2597.2 | 2483.3 | 2457.9 |
| 4186.5  | 72.5° | 1901.0 | 1989.3 | 2077.8 | 2242.6 | 2407.1 | 2434.7 | 2435.3 | 2357.2 | 2279.0 | 2241.8 |
| 3038.5  | 75°   | 1476.1 | 1556.2 | 1636.3 | 1820.8 | 2005.3 | 2132.9 | 2122.1 | 2062.1 | 2001.7 | 1966.1 |
| 2058.9  | 77.5° | 1136.4 | 1190.8 | 1245.6 | 1424.7 | 1603.9 | 1814.1 | 1808.4 | 1760.2 | 1711.9 | 1675.8 |
| 1326.6  | 80°   | 852.0  | 874.6  | 897.2  | 1048.9 | 1200.4 | 1451.5 | 1450.7 | 1410.3 | 1369.7 | 1339.5 |
| 815.9   | 82.5° | 608.8  | 612.8  | 617.3  | 729.0  | 840.7  | 1055.1 | 1067.0 | 1047.2 | 1027.5 | 1006.1 |
| 436.2   | 85°   | 368.2  | 366.2  | 363.9  | 445.8  | 527.6  | 687.0  | 702.5  | 681.3  | 660.2  | 636.2  |
| 180.8   | 87.5° | 161.4  | 159.4  | 157.4  | 190.7  | 224.3  | 290.6  | 310.3  | 301.9  | 293.4  | 288.9  |
| 0.0     | 90°   | 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):**

| 160°   |       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7352.2 | 0°    | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 |
| 7070.0 | 2.5°  | 7027.4 | 6984.8 | 6942.0 | 6899.4 | 6866.4 | 6833.1 | 6806.3 | 6779.5 | 6758.6 | 6737.7 |
| 6835.3 | 5°    | 6759.7 | 6684.1 | 6615.5 | 6546.7 | 6493.9 | 6440.9 | 6404.0 | 6367.0 | 6340.8 | 6314.5 |
| 6690.6 | 7.5°  | 6595.5 | 6500.2 | 6416.1 | 6332.3 | 6269.4 | 6206.7 | 6162.7 | 6118.7 | 6088.5 | 6058.6 |
| 6686.9 | 10°   | 6584.5 | 6481.8 | 6387.3 | 6292.8 | 6217.7 | 6142.4 | 6093.3 | 6043.7 | 6015.2 | 5986.7 |
| 6829.7 | 12.5° | 6749.0 | 6668.9 | 6571.0 | 6473.4 | 6377.4 | 6281.5 | 6218.0 | 6154.6 | 6122.7 | 6091.1 |
| 7061.6 | 15°   | 7040.7 | 7019.8 | 6934.9 | 6850.0 | 6713.4 | 6576.9 | 6480.4 | 6383.9 | 6339.6 | 6295.6 |
| 7256.8 | 17.5° | 7322.3 | 7387.4 | 7318.9 | 7250.6 | 7069.8 | 6888.9 | 6746.7 | 6604.5 | 6539.1 | 6473.4 |
| 7290.1 | 20°   | 7426.9 | 7563.8 | 7532.2 | 7500.3 | 7293.5 | 7087.0 | 6912.6 | 6738.6 | 6654.8 | 6570.7 |
| 7103.3 | 22.5° | 7281.4 | 7459.4 | 7478.6 | 7497.5 | 7300.0 | 7102.5 | 6923.1 | 6743.3 | 6655.0 | 6566.5 |
| 6768.2 | 25°   | 6943.4 | 7118.6 | 7184.0 | 7249.2 | 7087.3 | 6925.6 | 6765.9 | 6606.8 | 6530.1 | 6453.6 |
| 6390.7 | 27.5° | 6531.2 | 6671.7 | 6744.5 | 6817.5 | 6702.2 | 6587.1 | 6463.2 | 6339.3 | 6288.0 | 6236.4 |
| 6011.5 | 30°   | 6128.0 | 6244.8 | 6304.1 | 6363.3 | 6275.6 | 6187.6 | 6099.0 | 6009.8 | 5983.6 | 5957.1 |
| 5627.0 | 32.5° | 5738.7 | 5850.7 | 5916.4 | 5982.5 | 5901.8 | 5820.8 | 5750.0 | 5679.2 | 5662.0 | 5644.8 |
| 5253.2 | 35°   | 5363.8 | 5474.6 | 5553.6 | 5632.6 | 5575.1 | 5517.8 | 5452.3 | 5387.2 | 5360.9 | 5335.0 |
| 4896.3 | 37.5° | 5006.6 | 5117.2 | 5214.8 | 5312.4 | 5285.9 | 5259.4 | 5199.3 | 5138.9 | 5091.2 | 5043.8 |
| 4562.5 | 40°   | 4669.2 | 4775.8 | 4888.1 | 5000.7 | 5007.2 | 5013.4 | 4962.3 | 4911.2 | 4841.8 | 4773.0 |
| 4256.7 | 42.5° | 4357.7 | 4459.0 | 4580.3 | 4701.6 | 4734.1 | 4766.5 | 4723.3 | 4680.5 | 4594.4 | 4508.4 |
| 3994.3 | 45°   | 4090.2 | 4186.2 | 4312.0 | 4437.8 | 4484.4 | 4530.9 | 4492.0 | 4453.3 | 4354.9 | 4256.7 |
| 3784.7 | 47.5° | 3878.7 | 3972.3 | 4096.5 | 4220.6 | 4274.2 | 4327.8 | 4300.7 | 4273.6 | 4186.2 | 4098.7 |
| 3632.4 | 50°   | 3720.9 | 3809.2 | 3920.4 | 4031.6 | 4100.4 | 4169.2 | 4167.5 | 4166.4 | 4096.5 | 4026.5 |
| 3532.2 | 52.5° | 3613.5 | 3694.4 | 3798.0 | 3901.8 | 3983.3 | 4064.9 | 4079.5 | 4094.2 | 4037.2 | 3980.2 |
| 3456.6 | 55°   | 3544.1 | 3631.5 | 3722.4 | 3812.9 | 3899.2 | 3985.9 | 4006.2 | 4026.5 | 3976.8 | 3927.2 |
| 3354.5 | 57.5° | 3457.2 | 3559.9 | 3649.6 | 3739.6 | 3826.7 | 3913.6 | 3934.2 | 3954.8 | 3904.6 | 3854.4 |
| 3216.8 | 60°   | 3334.7 | 3452.6 | 3543.8 | 3635.2 | 3722.6 | 3810.1 | 3832.7 | 3855.2 | 3806.1 | 3757.3 |
| 3023.0 | 62.5° | 3160.4 | 3298.0 | 3395.4 | 3492.7 | 3572.8 | 3653.0 | 3674.7 | 3696.4 | 3652.1 | 3607.8 |
| 2815.6 | 65°   | 2962.9 | 3110.4 | 3203.5 | 3296.6 | 3367.2 | 3437.7 | 3460.0 | 3482.0 | 3439.4 | 3396.8 |
| 2623.8 | 67.5° | 2759.7 | 2896.0 | 2984.3 | 3072.3 | 3133.3 | 3194.2 | 3215.9 | 3237.4 | 3198.2 | 3159.2 |
| 2432.5 | 70°   | 2552.1 | 2671.7 | 2747.9 | 2824.1 | 2879.1 | 2934.1 | 2955.0 | 2975.9 | 2944.0 | 2912.1 |
| 2204.8 | 72.5° | 2299.0 | 2393.0 | 2461.8 | 2530.7 | 2584.5 | 2638.4 | 2663.3 | 2688.1 | 2661.6 | 2635.0 |
| 1930.3 | 75°   | 2000.3 | 2070.2 | 2132.6 | 2194.9 | 2244.0 | 2293.1 | 2319.1 | 2345.0 | 2332.0 | 2319.1 |
| 1639.7 | 77.5° | 1696.7 | 1753.4 | 1807.0 | 1860.6 | 1912.2 | 1963.6 | 1987.9 | 2012.1 | 1994.1 | 1975.4 |
| 1309.1 | 80°   | 1356.5 | 1403.6 | 1448.7 | 1493.9 | 1533.1 | 1572.0 | 1604.2 | 1636.3 | 1628.4 | 1620.8 |
| 984.6  | 82.5° | 980.7  | 976.7  | 960.9  | 945.1  | 1028.6 | 1112.1 | 1166.9 | 1221.6 | 1218.2 | 1214.5 |
| 612.2  | 85°   | 591.9  | 571.3  | 527.6  | 483.8  | 562.0  | 640.4  | 708.1  | 775.8  | 770.2  | 764.6  |
| 284.4  | 87.5° | 283.5  | 282.7  | 249.4  | 215.8  | 248.6  | 281.6  | 308.9  | 336.3  | 329.5  | 322.2  |
| 0.0    | 90°   | 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):**

| 215°   |       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7352.2 | 0°    | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 |
| 6718.5 | 2.5°  | 6699.1 | 6675.1 | 6699.1 | 6718.5 | 6737.7 | 6758.6 | 6779.5 | 6806.3 | 6833.1 | 6866.4 |
| 6294.5 | 5°    | 6274.5 | 6254.7 | 6274.5 | 6294.5 | 6314.5 | 6340.8 | 6367.0 | 6404.0 | 6440.9 | 6493.9 |
| 6040.6 | 7.5°  | 6022.8 | 6009.3 | 6022.8 | 6040.6 | 6058.6 | 6088.5 | 6118.7 | 6162.7 | 6206.7 | 6269.4 |
| 5971.5 | 10°   | 5956.2 | 5950.0 | 5956.2 | 5971.5 | 5986.7 | 6015.2 | 6043.7 | 6093.3 | 6142.4 | 6217.7 |
| 6078.1 | 12.5° | 6065.1 | 6062.9 | 6065.1 | 6078.1 | 6091.1 | 6122.7 | 6154.6 | 6218.0 | 6281.5 | 6377.4 |
| 6278.7 | 15°   | 6261.8 | 6260.3 | 6261.8 | 6278.7 | 6295.6 | 6339.6 | 6383.9 | 6480.4 | 6576.9 | 6713.4 |
| 6451.9 | 17.5° | 6430.2 | 6426.8 | 6430.2 | 6451.9 | 6473.4 | 6539.1 | 6604.5 | 6746.7 | 6888.9 | 7069.8 |
| 6543.9 | 20°   | 6517.1 | 6508.6 | 6517.1 | 6543.9 | 6570.7 | 6654.8 | 6738.6 | 6912.6 | 7087.0 | 7293.5 |
| 6536.8 | 22.5° | 6507.2 | 6494.5 | 6507.2 | 6536.8 | 6566.5 | 6655.0 | 6743.3 | 6923.1 | 7102.5 | 7300.0 |
| 6425.7 | 25°   | 6398.0 | 6381.7 | 6398.0 | 6425.7 | 6453.6 | 6530.1 | 6606.8 | 6765.9 | 6925.6 | 7087.3 |
| 6223.7 | 27.5° | 6211.0 | 6206.7 | 6211.0 | 6223.7 | 6236.4 | 6288.0 | 6339.3 | 6463.2 | 6587.1 | 6702.2 |
| 5957.1 | 30°   | 5957.1 | 5961.3 | 5957.1 | 5957.1 | 5957.1 | 5983.6 | 6009.8 | 6099.0 | 6187.6 | 6275.6 |
| 5647.0 | 32.5° | 5649.5 | 5653.8 | 5649.5 | 5647.0 | 5644.8 | 5662.0 | 5679.2 | 5750.0 | 5820.8 | 5901.8 |
| 5329.3 | 35°   | 5323.7 | 5320.9 | 5323.7 | 5329.3 | 5335.0 | 5360.9 | 5387.2 | 5452.3 | 5517.8 | 5575.1 |
| 5018.7 | 37.5° | 4993.6 | 4979.5 | 4993.6 | 5018.7 | 5043.8 | 5091.2 | 5138.9 | 5199.3 | 5259.4 | 5285.9 |
| 4726.2 | 40°   | 4679.9 | 4652.2 | 4679.9 | 4726.2 | 4773.0 | 4841.8 | 4911.2 | 4962.3 | 5013.4 | 5007.2 |
| 4440.4 | 42.5° | 4372.4 | 4327.8 | 4372.4 | 4440.4 | 4508.4 | 4594.4 | 4680.5 | 4723.3 | 4766.5 | 4734.1 |
| 4176.9 | 45°   | 4097.0 | 4045.7 | 4097.0 | 4176.9 | 4256.7 | 4354.9 | 4453.3 | 4492.0 | 4530.9 | 4484.4 |
| 4024.8 | 47.5° | 3951.2 | 3901.8 | 3951.2 | 4024.8 | 4098.7 | 4186.2 | 4273.6 | 4300.7 | 4327.8 | 4274.2 |
| 3958.2 | 50°   | 3889.9 | 3842.5 | 3889.9 | 3958.2 | 4026.5 | 4096.5 | 4166.4 | 4167.5 | 4169.2 | 4100.4 |
| 3919.0 | 52.5° | 3858.1 | 3814.3 | 3858.1 | 3919.0 | 3980.2 | 4037.2 | 4094.2 | 4079.5 | 4064.9 | 3983.3 |
| 3873.6 | 55°   | 3820.0 | 3780.5 | 3820.0 | 3873.6 | 3927.2 | 3976.8 | 4026.5 | 4006.2 | 3985.9 | 3899.2 |
| 3801.3 | 57.5° | 3748.0 | 3707.1 | 3748.0 | 3801.3 | 3854.4 | 3904.6 | 3954.8 | 3934.2 | 3913.6 | 3826.7 |
| 3702.6 | 60°   | 3647.9 | 3605.6 | 3647.9 | 3702.6 | 3757.3 | 3806.1 | 3855.2 | 3832.7 | 3810.1 | 3722.6 |
| 3550.3 | 62.5° | 3492.7 | 3441.9 | 3492.7 | 3550.3 | 3607.8 | 3652.1 | 3696.4 | 3674.7 | 3653.0 | 3572.8 |
| 3340.9 | 65°   | 3285.3 | 3241.6 | 3285.3 | 3340.9 | 3396.8 | 3439.4 | 3482.0 | 3460.0 | 3437.7 | 3367.2 |
| 3107.3 | 67.5° | 3055.4 | 3015.9 | 3055.4 | 3107.3 | 3159.2 | 3198.2 | 3237.4 | 3215.9 | 3194.2 | 3133.3 |
| 2862.4 | 70°   | 2812.8 | 2767.6 | 2812.8 | 2862.4 | 2912.1 | 2944.0 | 2975.9 | 2955.0 | 2934.1 | 2879.1 |
| 2587.6 | 72.5° | 2540.5 | 2496.8 | 2540.5 | 2587.6 | 2635.0 | 2661.6 | 2688.1 | 2663.3 | 2638.4 | 2584.5 |
| 2279.3 | 75°   | 2239.5 | 2197.8 | 2239.5 | 2279.3 | 2319.1 | 2332.0 | 2345.0 | 2319.1 | 2293.1 | 2244.0 |
| 1935.4 | 77.5° | 1895.3 | 1862.0 | 1895.3 | 1935.4 | 1975.4 | 1994.1 | 2012.1 | 1987.9 | 1963.6 | 1912.2 |
| 1566.9 | 80°   | 1512.8 | 1450.1 | 1512.8 | 1566.9 | 1620.8 | 1628.4 | 1636.3 | 1604.2 | 1572.0 | 1533.1 |
| 1169.1 | 82.5° | 1123.4 | 1083.4 | 1123.4 | 1169.1 | 1214.5 | 1218.2 | 1221.6 | 1166.9 | 1112.1 | 1028.6 |
| 729.0  | 85°   | 693.5  | 657.4  | 693.5  | 729.0  | 764.6  | 770.2  | 775.8  | 708.1  | 640.4  | 562.0  |
| 304.1  | 87.5° | 285.5  | 268.0  | 285.5  | 304.1  | 322.2  | 329.5  | 336.3  | 308.9  | 281.6  | 248.6  |
| 0.0    | 90°   | 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):**

| 270°   |       | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7352.2 | 0°    | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 | 7352.2 |
| 6899.4 | 2.5°  | 6942.0 | 6984.8 | 7027.4 | 7070.0 | 7118.6 | 7167.4 | 7221.3 | 7275.4 | 7342.3 | 7402.4 |
| 6546.7 | 5°    | 6615.5 | 6684.1 | 6759.7 | 6835.3 | 6920.8 | 7006.6 | 7109.0 | 7211.1 | 7328.2 | 7446.7 |
| 6332.3 | 7.5°  | 6416.1 | 6500.2 | 6595.5 | 6690.6 | 6803.4 | 6916.3 | 7052.0 | 7188.0 | 7339.5 | 7501.1 |
| 6292.8 | 10°   | 6387.3 | 6481.8 | 6584.5 | 6686.9 | 6799.8 | 6912.6 | 7055.9 | 7199.3 | 7362.0 | 7561.5 |
| 6473.4 | 12.5° | 6571.0 | 6668.9 | 6749.0 | 6829.7 | 6904.2 | 6979.2 | 7096.0 | 7213.4 | 7364.9 | 7574.5 |
| 6850.0 | 15°   | 6934.9 | 7019.8 | 7040.7 | 7061.6 | 7051.4 | 7041.3 | 7097.1 | 7153.3 | 7274.6 | 7506.8 |
| 7250.6 | 17.5° | 7318.9 | 7387.4 | 7322.3 | 7256.8 | 7133.8 | 7010.8 | 6990.5 | 6969.9 | 7044.7 | 7317.8 |
| 7500.3 | 20°   | 7532.2 | 7563.8 | 7426.9 | 7290.1 | 7076.3 | 6862.7 | 6766.8 | 6670.8 | 6690.6 | 7008.5 |
| 7497.5 | 22.5° | 7478.6 | 7459.4 | 7281.4 | 7103.3 | 6859.0 | 6615.3 | 6473.4 | 6331.4 | 6292.8 | 6654.8 |
| 7249.2 | 25°   | 7184.0 | 7118.6 | 6943.4 | 6768.2 | 6548.7 | 6329.5 | 6165.8 | 6002.2 | 5897.8 | 6268.8 |
| 6817.5 | 27.5° | 6744.5 | 6671.7 | 6531.2 | 6390.7 | 6210.7 | 6030.4 | 5872.4 | 5714.4 | 5587.5 | 5925.2 |
| 6363.3 | 30°   | 6304.1 | 6244.8 | 6128.0 | 6011.5 | 5862.0 | 5712.5 | 5586.6 | 5461.4 | 5361.8 | 5645.3 |
| 5982.5 | 32.5° | 5916.4 | 5850.7 | 5738.7 | 5627.0 | 5507.4 | 5388.0 | 5313.8 | 5239.6 | 5195.3 | 5423.8 |
| 5632.6 | 35°   | 5553.6 | 5474.6 | 5363.8 | 5253.2 | 5162.3 | 5071.2 | 5050.6 | 5030.3 | 5048.6 | 5239.1 |
| 5312.4 | 37.5° | 5214.8 | 5117.2 | 5006.6 | 4896.3 | 4831.1 | 4765.7 | 4788.2 | 4810.8 | 4877.9 | 5044.4 |
| 5000.7 | 40°   | 4888.1 | 4775.8 | 4669.2 | 4562.5 | 4515.4 | 4468.3 | 4519.4 | 4570.4 | 4673.4 | 4824.3 |
| 4701.6 | 42.5° | 4580.3 | 4459.0 | 4357.7 | 4256.7 | 4218.0 | 4179.7 | 4247.4 | 4315.1 | 4444.9 | 4584.0 |
| 4437.8 | 45°   | 4312.0 | 4186.2 | 4090.2 | 3994.3 | 3961.6 | 3929.4 | 3995.2 | 4061.2 | 4186.7 | 4327.8 |
| 4220.6 | 47.5° | 4096.5 | 3972.3 | 3878.7 | 3784.7 | 3754.5 | 3724.0 | 3779.3 | 3834.6 | 3942.7 | 4124.7 |
| 4031.6 | 50°   | 3920.4 | 3809.2 | 3720.9 | 3632.4 | 3584.7 | 3537.3 | 3586.1 | 3635.2 | 3760.7 | 4000.0 |
| 3901.8 | 52.5° | 3798.0 | 3694.4 | 3613.5 | 3532.2 | 3461.1 | 3389.7 | 3438.0 | 3486.5 | 3662.0 | 3937.1 |
| 3812.9 | 55°   | 3722.4 | 3631.5 | 3544.1 | 3456.6 | 3355.6 | 3254.3 | 3330.8 | 3407.5 | 3671.9 | 3927.7 |
| 3739.6 | 57.5° | 3649.6 | 3559.9 | 3457.2 | 3354.5 | 3245.6 | 3136.7 | 3248.4 | 3360.1 | 3681.7 | 3907.4 |
| 3635.2 | 60°   | 3543.8 | 3452.6 | 3334.7 | 3216.8 | 3121.4 | 3025.8 | 3170.8 | 3315.5 | 3650.7 | 3799.7 |
| 3492.7 | 62.5° | 3395.4 | 3298.0 | 3160.4 | 3023.0 | 2962.3 | 2901.7 | 3082.5 | 3263.6 | 3574.5 | 3592.9 |
| 3296.6 | 65°   | 3203.5 | 3110.4 | 2962.9 | 2815.6 | 2792.5 | 2769.1 | 2961.7 | 3154.2 | 3391.1 | 3388.9 |
| 3072.3 | 67.5° | 2984.3 | 2896.0 | 2759.7 | 2623.8 | 2631.1 | 2638.4 | 2798.7 | 2958.9 | 3092.1 | 3098.3 |
| 2824.1 | 70°   | 2747.9 | 2671.7 | 2552.1 | 2432.5 | 2457.9 | 2483.3 | 2597.2 | 2711.2 | 2754.9 | 2754.9 |
| 2530.7 | 72.5° | 2461.8 | 2393.0 | 2299.0 | 2204.8 | 2241.8 | 2279.0 | 2357.2 | 2435.3 | 2434.7 | 2407.1 |
| 2194.9 | 75°   | 2132.6 | 2070.2 | 2000.3 | 1930.3 | 1966.1 | 2001.7 | 2062.1 | 2122.1 | 2132.9 | 2005.3 |
| 1860.6 | 77.5° | 1807.0 | 1753.4 | 1696.7 | 1639.7 | 1675.8 | 1711.9 | 1760.2 | 1808.4 | 1814.1 | 1603.9 |
| 1493.9 | 80°   | 1448.7 | 1403.6 | 1356.5 | 1309.1 | 1339.5 | 1369.7 | 1410.3 | 1450.7 | 1451.5 | 1200.4 |
| 945.1  | 82.5° | 960.9  | 976.7  | 980.7  | 984.6  | 1006.1 | 1027.5 | 1047.2 | 1067.0 | 1055.1 | 840.7  |
| 483.8  | 85°   | 527.6  | 571.3  | 591.9  | 612.2  | 636.2  | 660.2  | 681.3  | 702.5  | 687.0  | 527.6  |
| 215.8  | 87.5° | 249.4  | 282.7  | 283.5  | 284.4  | 288.9  | 293.4  | 301.9  | 310.3  | 290.6  | 224.3  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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|--------|-------|--------|--------|--------|---------|---------|---------|---------|
| 7352.2 | 0°    | 7352.2 | 7352.2 | 7352.2 | 7352.2  | 7352.2  | 7352.2  | 7352.2  |
| 7464.5 | 2.5°  | 7526.5 | 7591.4 | 7656.3 | 7720.6  | 7785.2  | 7845.9  | 7906.5  |
| 7572.2 | 5°    | 7697.8 | 7832.1 | 7966.6 | 8100.1  | 8233.8  | 8367.8  | 8501.8  |
| 7676.3 | 7.5°  | 7851.5 | 8050.4 | 8249.3 | 8453.6  | 8657.8  | 8878.8  | 9099.9  |
| 7769.2 | 10°   | 7976.2 | 8218.0 | 8459.5 | 8729.2  | 8999.2  | 9278.8  | 9558.4  |
| 7808.9 | 12.5° | 8043.4 | 8328.3 | 8613.3 | 8919.1  | 9224.9  | 9531.9  | 9839.1  |
| 7778.2 | 15°   | 8049.6 | 8377.7 | 8705.8 | 9037.6  | 9369.4  | 9689.6  | 10009.8 |
| 7644.2 | 17.5° | 7970.6 | 8351.5 | 8732.3 | 9094.3  | 9456.3  | 9781.0  | 10105.7 |
| 7413.1 | 20°   | 7817.7 | 8279.2 | 8740.8 | 9138.6  | 9536.4  | 9874.1  | 10211.5 |
| 7142.0 | 22.5° | 7629.2 | 8190.6 | 8752.1 | 9198.4  | 9644.4  | 9989.5  | 10334.2 |
| 6839.3 | 25°   | 7410.0 | 8103.2 | 8796.7 | 9306.7  | 9816.5  | 10154.2 | 10492.2 |
| 6562.5 | 27.5° | 7199.8 | 8044.8 | 8889.8 | 9476.0  | 10062.0 | 10384.5 | 10706.6 |
| 6331.2 | 30°   | 7017.0 | 8017.4 | 9017.3 | 9695.2  | 10373.2 | 10684.3 | 10995.8 |
| 6131.7 | 32.5° | 6839.3 | 7983.6 | 9127.3 | 9924.0  | 10720.7 | 11028.8 | 11337.2 |
| 5935.6 | 35°   | 6632.2 | 7919.8 | 9208.0 | 10184.7 | 11161.4 | 11456.8 | 11751.9 |
| 5704.8 | 37.5° | 6365.3 | 7810.6 | 9256.0 | 10476.7 | 11697.5 | 12073.8 | 12450.2 |
| 5429.5 | 40°   | 6034.7 | 7660.3 | 9286.1 | 10847.4 | 12408.4 | 12956.9 | 13505.3 |
| 5125.6 | 42.5° | 5667.3 | 7505.1 | 9343.4 | 11332.4 | 13321.4 | 14113.0 | 14904.7 |
| 4802.9 | 45°   | 5278.0 | 7360.9 | 9444.1 | 11970.6 | 14497.0 | 15564.8 | 16632.7 |
| 4547.6 | 47.5° | 4970.5 | 7241.9 | 9513.2 | 12650.5 | 15787.7 | 17290.9 | 18793.7 |
| 4378.0 | 50°   | 4756.1 | 7112.1 | 9468.1 | 13281.3 | 17094.5 | 19360.5 | 21626.3 |
| 4266.3 | 52.5° | 4595.8 | 6892.9 | 9190.2 | 13691.0 | 18191.4 | 21534.6 | 24877.8 |
| 4185.3 | 55°   | 4442.9 | 6529.5 | 8616.1 | 13600.7 | 18585.0 | 23462.1 | 28339.4 |
| 4089.4 | 57.5° | 4271.4 | 6017.2 | 7762.7 | 12965.3 | 18168.3 | 24828.1 | 31488.0 |
| 3942.7 | 60°   | 4085.7 | 5351.9 | 6618.1 | 11782.9 | 16947.8 | 25169.5 | 33390.9 |
| 3687.7 | 62.5° | 3782.7 | 4555.8 | 5328.8 | 10184.1 | 15039.5 | 23732.1 | 32424.6 |
| 3433.7 | 65°   | 3478.6 | 3839.4 | 4200.3 | 8552.9  | 12905.8 | 21698.2 | 30490.6 |
| 3073.5 | 67.5° | 3048.4 | 3151.1 | 3253.5 | 6954.9  | 10656.4 | 19277.9 | 27899.3 |
| 2639.0 | 70°   | 2522.8 | 2493.7 | 2464.4 | 5476.0  | 8487.7  | 16636.9 | 24786.1 |
| 2242.6 | 72.5° | 2077.8 | 1989.3 | 1901.0 | 4186.5  | 6471.9  | 13773.9 | 21076.1 |
| 1820.8 | 75°   | 1636.3 | 1556.2 | 1476.1 | 3038.5  | 4600.9  | 10491.9 | 16383.0 |
| 1424.7 | 77.5° | 1245.6 | 1190.8 | 1136.4 | 2058.9  | 2981.5  | 7343.4  | 11705.4 |
| 1048.9 | 80°   | 897.2  | 874.6  | 852.0  | 1326.6  | 1801.4  | 4731.2  | 7661.1  |
| 729.0  | 82.5° | 617.3  | 612.8  | 608.8  | 815.9   | 1023.5  | 2738.3  | 4453.3  |
| 445.8  | 85°   | 363.9  | 366.2  | 368.2  | 436.2   | 504.4   | 1231.8  | 1959.4  |
| 190.7  | 87.5° | 157.4  | 159.4  | 161.4  | 180.8   | 200.3   | 403.4   | 606.6   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

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