

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: P952819

Luminaire Tested: **GALN-SB6C-760-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-760-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

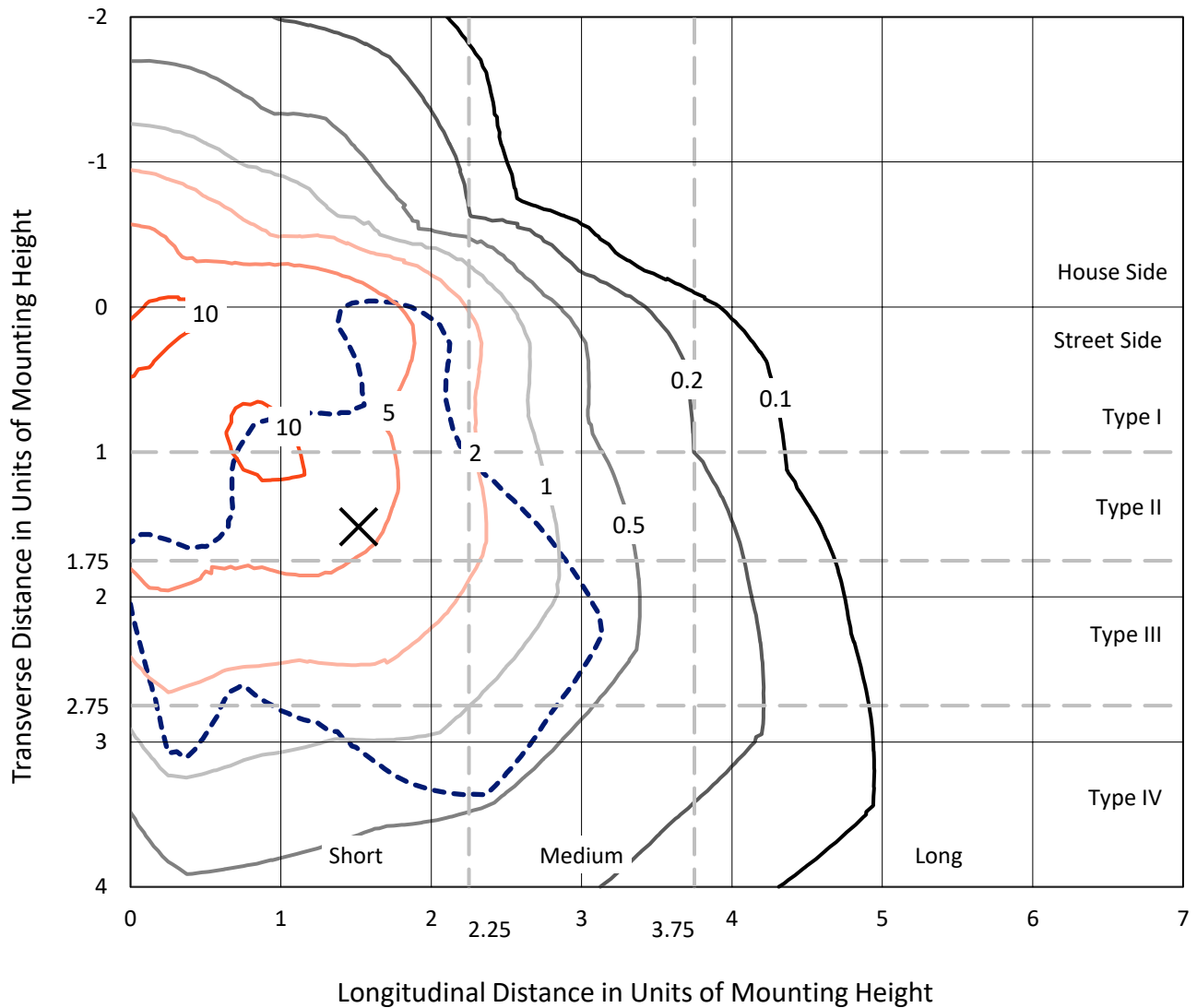
Lumens per Lamp: N/A  
Luminaire Lumens: 36669 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

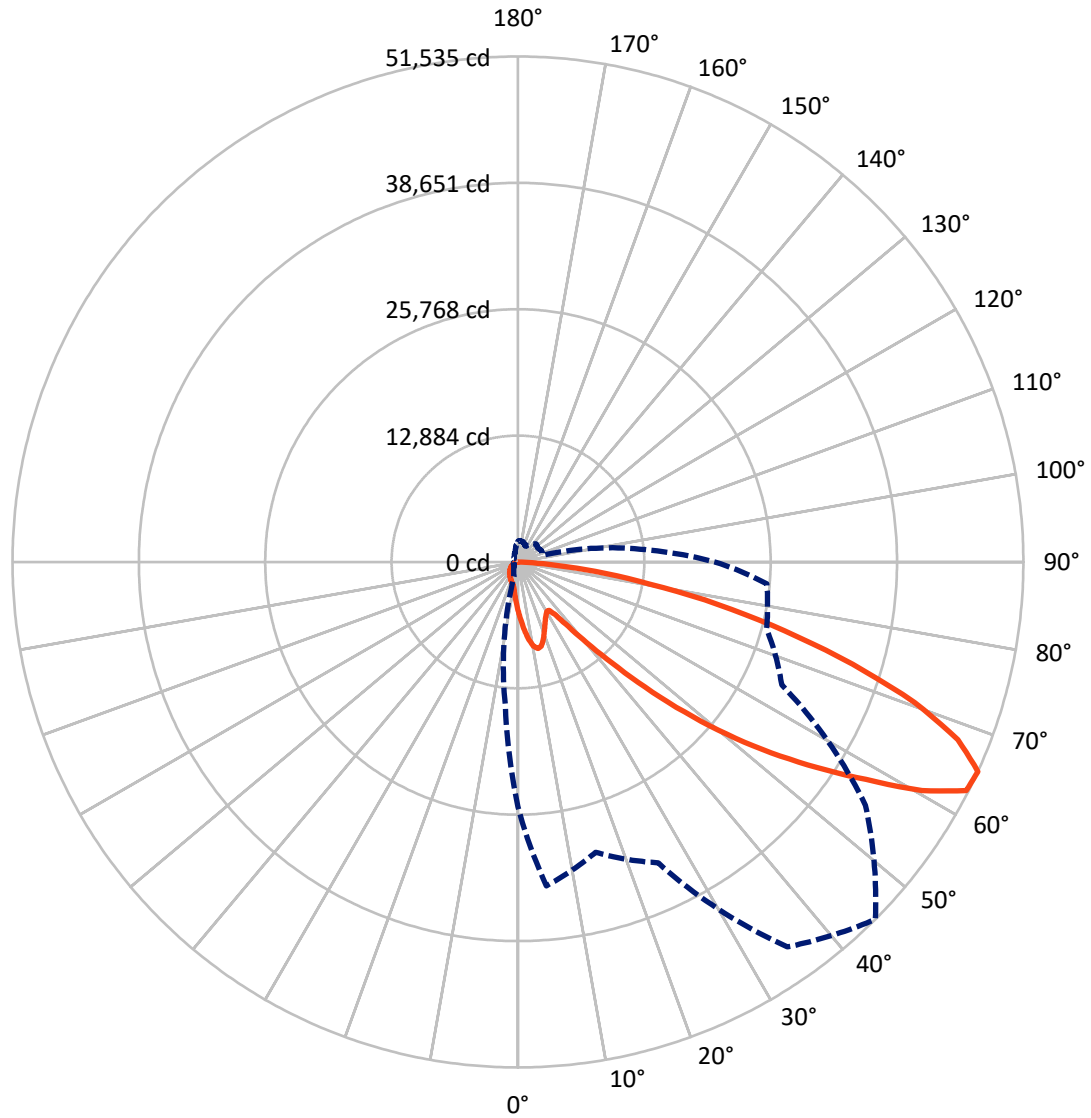
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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    | 7288.7   | 0.0    | 7288.7  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 29380.3  | 0.0    | 29380.3 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 36669.0  | 0.0    | 36669.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 499.9   | 1.4       |
| 10°-20°   | 1498.5  | 4.1       |
| 20°-30°   | 2207.7  | 6.0       |
| 30°-40°   | 2836.2  | 7.7       |
| 40°-50°   | 4587.0  | 12.5      |
| 50°-60°   | 8043.8  | 21.9      |
| 60°-70°   | 10065.0 | 27.4      |
| 70°-80°   | 5881.5  | 16.0      |
| 80°-90°   | 1049.4  | 2.9       |
| 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°    | 36669.0 | 100.0     |
| 0°-180°   | 36669.0 | 100.0     |



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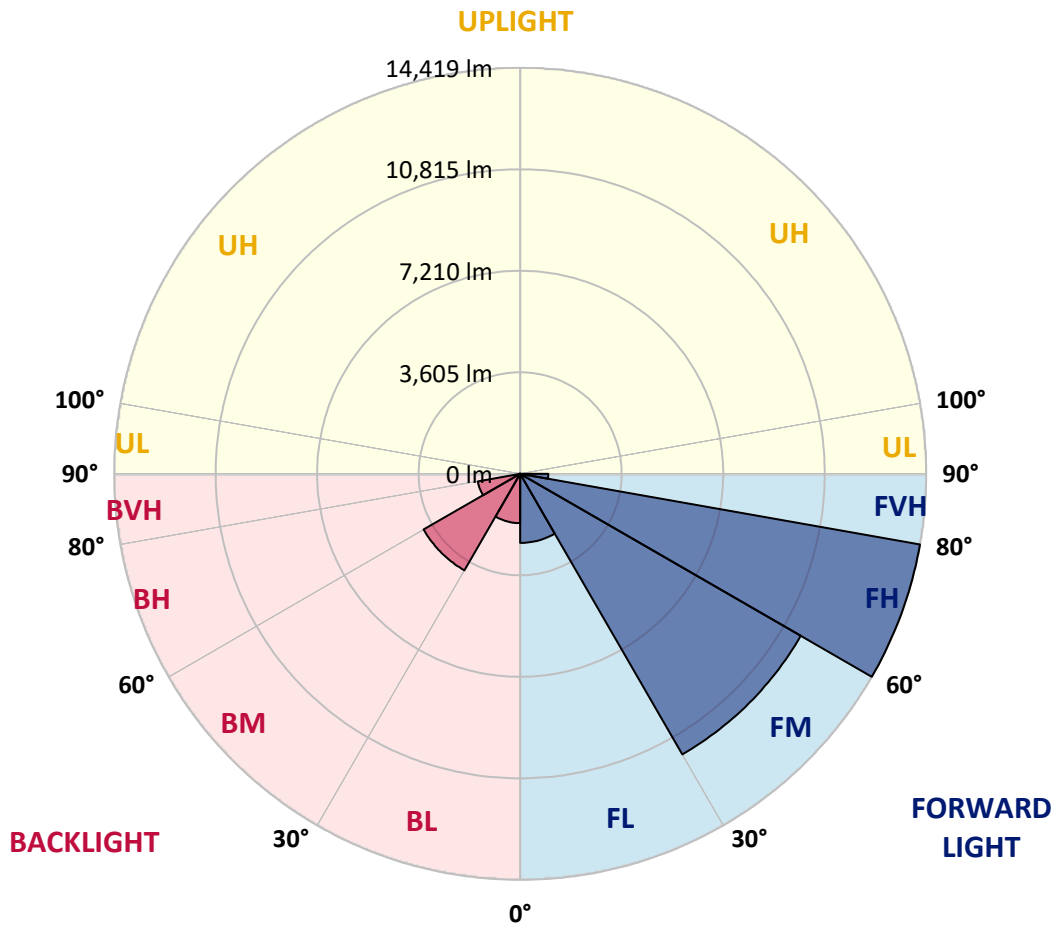
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2453.6  | 6.7       |                         |      |         |
| FM (30°-60°)   | 11507.2 | 31.4      |                         |      |         |
| FH (60°-80°)   | 14419.4 | 39.3      |                         |      | G5      |
| FVH (80°-90°)  | 1000.2  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1752.5  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3959.9  | 10.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 1527.1  | 4.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 49.2    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5077.5  | 5077.5  | 5077.5  | 5077.5  | 5077.5  | 5077.5  | 5077.5  | 5077.5  | 5077.5  | 5077.5  |
| 2.5°  | 5688.8  | 5731.7  | 5827.7  | 5878.3  | 5956.6  | 5961.6  | 5961.6  | 5893.4  | 5890.9  | 5752.0  |
| 5°    | 6358.2  | 6459.3  | 6686.6  | 6921.5  | 6972.1  | 6984.7  | 6959.4  | 6823.0  | 6722.0  | 6451.7  |
| 7.5°  | 7022.6  | 7217.1  | 7563.2  | 7876.4  | 7977.5  | 7977.5  | 7916.8  | 7694.5  | 7487.4  | 7095.8  |
| 10°   | 7573.3  | 7818.3  | 8288.2  | 8639.3  | 8755.5  | 8730.2  | 8606.5  | 8326.1  | 8040.6  | 7565.7  |
| 12.5° | 7937.0  | 8212.4  | 8727.7  | 9010.6  | 9129.4  | 9063.7  | 8922.2  | 8649.4  | 8348.8  | 7848.6  |
| 15°   | 8118.9  | 8406.9  | 8854.0  | 9003.1  | 8970.2  | 8902.0  | 8884.3  | 8753.0  | 8525.6  | 8058.3  |
| 17.5° | 8197.2  | 8465.0  | 8775.7  | 8682.2  | 8404.4  | 8351.3  | 8528.2  | 8694.9  | 8639.3  | 8240.2  |
| 20°   | 8270.5  | 8495.3  | 8588.8  | 8174.5  | 7689.5  | 7641.5  | 7980.0  | 8454.9  | 8697.4  | 8409.4  |
| 22.5° | 8371.5  | 8510.5  | 8318.5  | 7639.0  | 7116.1  | 7004.9  | 7378.8  | 8093.7  | 8715.1  | 8624.1  |
| 25°   | 8510.5  | 8548.4  | 8020.4  | 7131.2  | 6605.8  | 6494.6  | 6843.2  | 7692.0  | 8684.8  | 8856.5  |
| 27.5° | 8677.2  | 8598.9  | 7735.0  | 6706.8  | 6199.1  | 6095.5  | 6444.1  | 7305.5  | 8598.9  | 9088.9  |
| 30°   | 8894.4  | 8664.6  | 7452.0  | 6378.4  | 5908.6  | 5832.8  | 6168.8  | 6972.1  | 8492.8  | 9384.5  |
| 32.5° | 9114.2  | 8692.3  | 7189.3  | 6186.4  | 5842.9  | 5870.7  | 6146.0  | 6792.7  | 8376.6  | 9667.4  |
| 35°   | 9351.7  | 8780.8  | 7060.5  | 6375.9  | 6391.1  | 6633.6  | 6747.2  | 6959.4  | 8358.9  | 10051.4 |
| 37.5° | 9675.0  | 8977.8  | 7214.6  | 7318.1  | 7843.6  | 8346.3  | 8252.8  | 7775.4  | 8563.5  | 10624.8 |
| 40°   | 10139.8 | 9323.9  | 7886.5  | 8922.2  | 10000.9 | 10816.8 | 10460.6 | 9258.2  | 9190.0  | 11450.9 |
| 42.5° | 10816.8 | 9874.6  | 9078.8  | 10882.5 | 12711.4 | 14055.3 | 13100.4 | 11170.5 | 10286.3 | 12630.6 |
| 45°   | 11817.1 | 10766.3 | 10521.3 | 12951.4 | 16053.4 | 18170.3 | 16184.8 | 13209.0 | 11822.2 | 14416.5 |
| 47.5° | 13204.0 | 12077.3 | 11872.7 | 15131.4 | 20115.4 | 22853.7 | 19605.1 | 15098.6 | 13570.3 | 16851.7 |
| 50°   | 15045.5 | 13843.1 | 13153.5 | 17516.1 | 24569.0 | 27628.1 | 23023.0 | 16922.4 | 15573.5 | 19827.4 |
| 52.5° | 17475.6 | 16306.0 | 14646.4 | 19787.0 | 29148.8 | 32301.4 | 26456.0 | 18524.0 | 18059.2 | 23280.6 |
| 55°   | 20789.9 | 20011.9 | 16687.5 | 21954.4 | 33726.1 | 37002.5 | 29755.1 | 20034.6 | 21343.1 | 27383.0 |
| 57.5° | 24902.4 | 25458.1 | 19630.4 | 24467.9 | 37841.1 | 41847.6 | 33069.3 | 22146.4 | 25607.2 | 31970.5 |
| 60°   | 27554.8 | 32700.5 | 25266.2 | 28183.8 | 42517.0 | 47326.7 | 37611.3 | 26162.9 | 30088.5 | 33615.0 |
| 62.5° | 26913.2 | 35004.3 | 32015.9 | 32927.9 | 46816.4 | 51310.4 | 42062.3 | 30197.1 | 30932.2 | 31192.4 |
| 65°   | 24945.3 | 33145.1 | 30639.2 | 33849.9 | 47905.2 | 51535.2 | 43252.1 | 29676.8 | 26238.7 | 25465.7 |
| 67.5° | 22237.4 | 30939.8 | 27367.9 | 31404.6 | 45937.3 | 48392.7 | 41036.7 | 26251.3 | 20277.1 | 19110.0 |
| 70°   | 19314.6 | 28499.6 | 25220.7 | 28661.3 | 42186.1 | 42916.1 | 37270.2 | 23088.7 | 14914.2 | 12905.9 |
| 72.5° | 16541.0 | 25958.3 | 23750.5 | 25849.7 | 37181.8 | 35671.2 | 32367.1 | 20292.2 | 10859.8 | 9308.7  |
| 75°   | 13704.2 | 22209.6 | 21656.3 | 22510.2 | 30601.3 | 28097.9 | 26893.0 | 16801.2 | 8523.1  | 6734.6  |
| 77.5° | 10574.3 | 17354.4 | 18627.5 | 18026.3 | 21540.1 | 20870.7 | 20845.5 | 12625.5 | 6226.9  | 4494.0  |
| 80°   | 7237.3  | 12095.0 | 14552.9 | 12716.4 | 13979.5 | 13638.5 | 15699.8 | 8470.1  | 4516.7  | 2705.5  |
| 82.5° | 4254.0  | 7363.6  | 10129.7 | 6156.1  | 7729.9  | 7934.5  | 9349.1  | 4120.1  | 2657.5  | 623.9   |
| 85°   | 1725.3  | 2907.6  | 3960.9  | 2409.9  | 3728.5  | 3145.0  | 3549.2  | 1157.0  | 740.2   | 15.2    |
| 87.5° | 434.5   | 929.6   | 651.7   | 270.3   | 432.0   | 396.6   | 313.2   | 141.5   | 30.3    | 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):**

| 90°     |       | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5077.5  | 0°    | 5077.5  | 5077.5  | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 |
| 5736.8  | 2.5°  | 5638.3  | 5580.2  | 5436.2 | 5292.2 | 5176.0 | 5019.4 | 4915.8 | 4792.0 | 4673.3 | 4567.2 |
| 6393.6  | 5°    | 6234.4  | 6042.5  | 5779.7 | 5539.8 | 5294.7 | 5057.3 | 4822.3 | 4574.8 | 4347.4 | 4208.5 |
| 6949.3  | 7.5°  | 6719.5  | 6381.0  | 6032.4 | 5726.7 | 5431.1 | 5153.3 | 4842.6 | 4541.9 | 4185.8 | 3996.3 |
| 7373.7  | 10°   | 7080.7  | 6636.1  | 6178.9 | 5827.7 | 5529.7 | 5259.4 | 4996.6 | 4693.5 | 4264.1 | 4026.6 |
| 7631.4  | 12.5° | 7318.1  | 6790.2  | 6254.7 | 5853.0 | 5519.6 | 5309.9 | 5193.7 | 5075.0 | 4648.0 | 4370.2 |
| 7820.8  | 15°   | 7482.3  | 6898.8  | 6307.7 | 5794.9 | 5385.7 | 5231.6 | 5347.8 | 5484.2 | 5211.4 | 4890.6 |
| 8017.9  | 17.5° | 7661.7  | 7040.3  | 6330.4 | 5638.3 | 5125.5 | 5059.8 | 5360.4 | 5676.2 | 5663.5 | 5345.3 |
| 8204.8  | 20°   | 7851.2  | 7164.1  | 6315.3 | 5385.7 | 4809.7 | 4867.8 | 5251.8 | 5618.1 | 5772.2 | 5600.4 |
| 8419.5  | 22.5° | 8045.7  | 7282.8  | 6257.2 | 5057.3 | 4514.2 | 4696.0 | 5080.0 | 5400.8 | 5582.7 | 5529.7 |
| 8682.2  | 25°   | 8290.7  | 7449.5  | 6171.3 | 4703.6 | 4269.1 | 4521.7 | 4880.4 | 5140.6 | 5266.9 | 5264.4 |
| 8965.2  | 27.5° | 8583.7  | 7671.8  | 6125.8 | 4418.2 | 4094.8 | 4324.7 | 4643.0 | 4875.4 | 4963.8 | 4963.8 |
| 9316.3  | 30°   | 8924.8  | 7934.5  | 6075.3 | 4231.2 | 3993.8 | 4120.1 | 4367.6 | 4595.0 | 4683.4 | 4683.4 |
| 9700.3  | 32.5° | 9303.7  | 8187.1  | 5954.0 | 4117.6 | 3918.0 | 3920.5 | 4077.1 | 4284.3 | 4390.4 | 4405.5 |
| 10180.2 | 35°   | 9758.4  | 8457.4  | 5688.8 | 4026.6 | 3829.6 | 3726.0 | 3801.8 | 3973.6 | 4099.9 | 4132.7 |
| 10864.8 | 37.5° | 10354.5 | 8788.3  | 5309.9 | 3892.7 | 3693.2 | 3521.4 | 3539.1 | 3670.4 | 3809.4 | 3859.9 |
| 11809.6 | 40°   | 11155.3 | 9177.4  | 4915.8 | 3700.8 | 3501.2 | 3296.6 | 3289.0 | 3385.0 | 3521.4 | 3577.0 |
| 13087.8 | 42.5° | 12213.7 | 9644.7  | 4539.4 | 3516.3 | 3268.8 | 3059.1 | 3046.5 | 3122.3 | 3241.0 | 3299.1 |
| 14775.2 | 45°   | 13567.7 | 10218.1 | 4216.1 | 3372.4 | 3041.4 | 2834.3 | 2829.2 | 2892.4 | 2996.0 | 3056.6 |
| 16935.0 | 47.5° | 15449.7 | 10791.5 | 3996.3 | 3296.6 | 2862.1 | 2649.9 | 2660.0 | 2715.6 | 2809.0 | 2852.0 |
| 19731.5 | 50°   | 17902.5 | 10965.8 | 3885.2 | 3296.6 | 2766.1 | 2485.7 | 2536.2 | 2581.7 | 2652.4 | 2677.7 |
| 23083.6 | 52.5° | 20256.9 | 10389.9 | 3784.1 | 3316.8 | 2778.7 | 2346.8 | 2455.4 | 2488.2 | 2548.8 | 2559.0 |
| 26190.7 | 55°   | 21411.3 | 8932.3  | 3645.2 | 3321.8 | 2857.0 | 2228.0 | 2389.7 | 2450.3 | 2473.1 | 2470.5 |
| 27994.4 | 57.5° | 21014.7 | 7222.2  | 3410.2 | 3301.6 | 2910.1 | 2152.2 | 2308.9 | 2425.1 | 2440.2 | 2417.5 |
| 27650.8 | 60°   | 19622.8 | 5317.5  | 3230.9 | 3152.6 | 2889.9 | 2129.5 | 2185.1 | 2369.5 | 2392.2 | 2361.9 |
| 25003.4 | 62.5° | 17288.7 | 3690.6  | 3092.0 | 2824.2 | 2801.5 | 2121.9 | 1990.6 | 2248.2 | 2303.8 | 2260.9 |
| 20097.7 | 65°   | 13610.7 | 2606.9  | 2662.5 | 2475.6 | 2609.5 | 2081.5 | 1788.5 | 2101.7 | 2177.5 | 2111.8 |
| 14580.7 | 67.5° | 9210.2  | 1882.0  | 2157.3 | 2243.2 | 2298.8 | 1990.6 | 1642.0 | 1935.0 | 2036.0 | 1950.2 |
| 9356.7  | 70°   | 4973.9  | 1321.2  | 1424.7 | 1889.5 | 1952.7 | 1834.0 | 1510.6 | 1765.8 | 1882.0 | 1788.5 |
| 6651.3  | 72.5° | 2937.9  | 949.8   | 997.8  | 1518.2 | 1626.8 | 1614.2 | 1364.1 | 1568.7 | 1710.2 | 1599.0 |
| 4589.9  | 75°   | 1619.2  | 641.6   | 712.4  | 1101.4 | 1321.2 | 1245.4 | 1172.1 | 1328.7 | 1472.7 | 1364.1 |
| 2877.2  | 77.5° | 725.0   | 384.0   | 495.1  | 722.5  | 1038.2 | 853.8  | 906.9  | 1035.7 | 1169.6 | 1055.9 |
| 1601.6  | 80°   | 280.4   | 214.7   | 328.4  | 394.1  | 755.3  | 472.4  | 583.5  | 762.9  | 858.9  | 767.9  |
| 348.6   | 82.5° | 35.4    | 96.0    | 141.5  | 154.1  | 439.5  | 250.1  | 338.5  | 480.0  | 472.4  | 409.2  |
| 0.0     | 85°   | 0.0     | 17.7    | 20.2   | 10.1   | 189.5  | 90.9   | 111.1  | 156.6  | 146.5  | 111.1  |
| 0.0     | 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.1    | 0.0    |
| 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):**

| 185°   |       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5077.5 | 0°    | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 |
| 4547.0 | 2.5°  | 4423.2 | 4332.3 | 4286.8 | 4248.9 | 4284.3 | 4304.5 | 4304.5 | 4390.4 | 4440.9 | 4461.1 |
| 4120.1 | 5°    | 3897.8 | 3728.5 | 3614.9 | 3546.7 | 3569.4 | 3594.7 | 3622.4 | 3731.1 | 3804.3 | 3852.3 |
| 3824.5 | 7.5°  | 3483.5 | 3225.8 | 3066.7 | 2983.3 | 2996.0 | 3013.7 | 3036.4 | 3142.5 | 3215.7 | 3278.9 |
| 3769.0 | 10°   | 3278.9 | 2915.1 | 2705.5 | 2604.4 | 2586.7 | 2576.6 | 2569.1 | 2632.2 | 2687.8 | 2738.3 |
| 3996.3 | 12.5° | 3289.0 | 2781.2 | 2526.1 | 2402.3 | 2349.3 | 2288.7 | 2240.7 | 2250.8 | 2286.1 | 2349.3 |
| 4403.0 | 15°   | 3417.8 | 2738.3 | 2432.6 | 2278.6 | 2190.1 | 2119.4 | 2061.3 | 2048.7 | 2061.3 | 2071.4 |
| 4867.8 | 17.5° | 3592.1 | 2733.3 | 2351.8 | 2159.8 | 2068.9 | 2010.8 | 1957.7 | 1940.1 | 1942.6 | 1955.2 |
| 5176.0 | 20°   | 3731.1 | 2718.1 | 2260.9 | 2046.1 | 1965.3 | 1914.8 | 1861.7 | 1844.1 | 1849.1 | 1851.6 |
| 5206.3 | 22.5° | 3804.3 | 2695.4 | 2159.8 | 1932.5 | 1864.3 | 1813.7 | 1765.8 | 1763.2 | 1763.2 | 1778.4 |
| 5042.1 | 25°   | 3804.3 | 2647.4 | 2068.9 | 1823.9 | 1763.2 | 1717.8 | 1659.7 | 1669.8 | 1674.8 | 1695.0 |
| 4787.0 | 27.5° | 3713.4 | 2556.4 | 1995.6 | 1730.4 | 1667.2 | 1621.8 | 1568.7 | 1581.3 | 1588.9 | 1611.7 |
| 4534.4 | 30°   | 3597.2 | 2447.8 | 1912.3 | 1642.0 | 1568.7 | 1535.9 | 1490.4 | 1495.5 | 1505.6 | 1530.8 |
| 4299.4 | 32.5° | 3473.4 | 2319.0 | 1844.1 | 1553.6 | 1480.3 | 1455.0 | 1404.5 | 1412.1 | 1422.2 | 1450.0 |
| 4067.0 | 35°   | 3337.0 | 2167.4 | 1763.2 | 1472.7 | 1399.5 | 1379.3 | 1321.2 | 1326.2 | 1341.4 | 1371.7 |
| 3817.0 | 37.5° | 3193.0 | 2043.6 | 1682.4 | 1394.4 | 1318.6 | 1298.4 | 1237.8 | 1242.8 | 1260.5 | 1295.9 |
| 3554.2 | 40°   | 3051.5 | 1922.4 | 1596.5 | 1311.1 | 1235.3 | 1217.6 | 1151.9 | 1157.0 | 1177.2 | 1215.1 |
| 3289.0 | 42.5° | 2897.4 | 1828.9 | 1485.4 | 1225.2 | 1144.3 | 1126.6 | 1066.0 | 1073.6 | 1096.3 | 1134.2 |
| 3044.0 | 45°   | 2713.0 | 1768.3 | 1361.6 | 1144.3 | 1053.4 | 1035.7 | 980.1  | 995.3  | 1020.5 | 1058.4 |
| 2834.3 | 47.5° | 2523.6 | 1743.0 | 1258.0 | 1058.4 | 959.9  | 944.8  | 899.3  | 924.6  | 952.3  | 982.7  |
| 2654.9 | 50°   | 2341.7 | 1710.2 | 1151.9 | 977.6  | 879.1  | 863.9  | 833.6  | 866.5  | 894.2  | 922.0  |
| 2526.1 | 52.5° | 2134.6 | 1639.4 | 1055.9 | 906.9  | 810.9  | 805.8  | 790.7  | 821.0  | 846.2  | 871.5  |
| 2415.0 | 55°   | 1919.8 | 1525.8 | 972.6  | 843.7  | 752.8  | 757.8  | 750.3  | 775.5  | 795.7  | 818.5  |
| 2313.9 | 57.5° | 1732.9 | 1381.8 | 906.9  | 775.5  | 702.3  | 717.4  | 707.3  | 719.9  | 732.6  | 760.4  |
| 2192.7 | 60°   | 1543.5 | 1210.0 | 833.6  | 694.7  | 651.7  | 669.4  | 641.6  | 639.1  | 644.2  | 651.7  |
| 2013.3 | 62.5° | 1288.3 | 1030.7 | 742.7  | 623.9  | 596.2  | 603.7  | 550.7  | 510.3  | 510.3  | 517.9  |
| 1763.2 | 65°   | 1035.7 | 863.9  | 641.6  | 543.1  | 520.4  | 515.3  | 439.5  | 384.0  | 378.9  | 401.7  |
| 1472.7 | 67.5° | 851.3  | 717.4  | 540.6  | 452.2  | 437.0  | 442.1  | 386.5  | 330.9  | 325.9  | 351.1  |
| 1199.9 | 70°   | 704.8  | 578.5  | 432.0  | 348.6  | 363.8  | 386.5  | 330.9  | 277.9  | 270.3  | 293.0  |
| 975.1  | 72.5° | 560.8  | 452.2  | 330.9  | 257.7  | 300.6  | 328.4  | 270.3  | 219.8  | 214.7  | 234.9  |
| 752.8  | 75°   | 411.8  | 323.3  | 224.8  | 186.9  | 232.4  | 257.7  | 197.0  | 156.6  | 149.0  | 166.7  |
| 502.7  | 77.5° | 255.1  | 181.9  | 141.5  | 111.1  | 159.1  | 171.8  | 103.6  | 90.9   | 88.4   | 101.0  |
| 305.7  | 80°   | 118.7  | 78.3   | 68.2   | 37.9   | 58.1   | 68.2   | 42.9   | 48.0   | 50.5   | 60.6   |
| 154.1  | 82.5° | 32.8   | 12.6   | 2.5    | 0.0    | 0.0    | 20.2   | 10.1   | 20.2   | 25.3   | 37.9   |
| 12.6   | 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.1    | 12.6   | 22.7   |
| 0.0    | 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 10.1   |
| 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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| 285°   |       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 360°    |
|--------|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 5077.5 | 0°    | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5 | 5077.5  | 5077.5  |
| 4602.6 | 2.5°  | 4708.7 | 4809.7 | 4971.4 | 5138.1 | 5302.3 | 5469.0 | 5630.7  | 5688.8  |
| 4072.1 | 5°    | 4271.7 | 4504.1 | 4824.9 | 5168.4 | 5522.1 | 5880.8 | 6209.2  | 6358.2  |
| 3523.9 | 7.5°  | 3784.1 | 4117.6 | 4600.0 | 5138.1 | 5701.4 | 6264.8 | 6782.6  | 7022.6  |
| 2980.8 | 10°   | 3263.7 | 3685.6 | 4236.3 | 4963.8 | 5772.2 | 6550.2 | 7262.6  | 7573.3  |
| 2503.4 | 12.5° | 2768.6 | 3210.7 | 3819.5 | 4691.0 | 5716.6 | 6714.4 | 7570.8  | 7937.0  |
| 2167.4 | 15°   | 2354.3 | 2745.9 | 3402.7 | 4367.6 | 5537.2 | 6724.5 | 7717.3  | 8118.9  |
| 1980.5 | 17.5° | 2043.6 | 2298.8 | 2978.3 | 4008.9 | 5302.3 | 6631.0 | 7767.8  | 8197.2  |
| 1879.4 | 20°   | 1889.5 | 1960.3 | 2427.6 | 3549.2 | 5082.5 | 6542.6 | 7818.3  | 8270.5  |
| 1798.6 | 22.5° | 1798.6 | 1816.3 | 1985.5 | 2955.5 | 4819.8 | 6514.8 | 7906.7  | 8371.5  |
| 1725.3 | 25°   | 1725.3 | 1730.4 | 1775.9 | 2341.7 | 4418.2 | 6497.2 | 8043.1  | 8510.5  |
| 1649.6 | 27.5° | 1652.1 | 1652.1 | 1677.3 | 1887.0 | 3872.5 | 6421.4 | 8220.0  | 8677.2  |
| 1573.8 | 30°   | 1578.8 | 1578.8 | 1596.5 | 1669.8 | 3233.4 | 6272.3 | 8432.2  | 8894.4  |
| 1498.0 | 32.5° | 1503.0 | 1503.0 | 1518.2 | 1571.2 | 2581.7 | 6085.4 | 8626.7  | 9114.2  |
| 1419.7 | 35°   | 1427.3 | 1422.2 | 1442.4 | 1498.0 | 2053.7 | 5847.9 | 8821.2  | 9351.7  |
| 1341.4 | 37.5° | 1346.4 | 1343.9 | 1364.1 | 1427.3 | 1773.3 | 5572.6 | 8967.7  | 9675.0  |
| 1263.1 | 40°   | 1260.5 | 1260.5 | 1283.3 | 1351.5 | 1692.5 | 5226.5 | 9200.1  | 10139.8 |
| 1182.2 | 42.5° | 1182.2 | 1177.2 | 1202.4 | 1285.8 | 1631.9 | 4895.6 | 9616.9  | 10816.8 |
| 1109.0 | 45°   | 1106.4 | 1096.3 | 1119.1 | 1222.6 | 1525.8 | 4779.4 | 10394.9 | 11817.1 |
| 1038.2 | 47.5° | 1035.7 | 1010.4 | 1030.7 | 1146.9 | 1429.8 | 5213.9 | 11668.1 | 13204.0 |
| 975.1  | 50°   | 977.6  | 929.6  | 947.3  | 1071.1 | 1356.5 | 6156.1 | 13320.2 | 15045.5 |
| 917.0  | 52.5° | 917.0  | 853.8  | 863.9  | 977.6  | 1290.8 | 7052.9 | 15111.2 | 17475.6 |
| 858.9  | 55°   | 853.8  | 783.1  | 788.1  | 884.1  | 1197.4 | 7186.8 | 16859.3 | 20789.9 |
| 793.2  | 57.5° | 783.1  | 717.4  | 717.4  | 798.3  | 1129.2 | 6229.4 | 18203.2 | 24902.4 |
| 712.4  | 60°   | 704.8  | 661.8  | 649.2  | 730.0  | 1189.8 | 4395.4 | 18359.8 | 27554.8 |
| 608.8  | 62.5° | 618.9  | 596.2  | 578.5  | 664.4  | 1235.3 | 2604.4 | 17099.2 | 26913.2 |
| 480.0  | 65°   | 520.4  | 515.3  | 502.7  | 730.0  | 1040.8 | 1538.4 | 14679.2 | 24945.3 |
| 409.2  | 67.5° | 437.0  | 429.4  | 429.4  | 765.4  | 790.7  | 967.5  | 11468.5 | 22237.4 |
| 348.6  | 70°   | 376.4  | 348.6  | 348.6  | 578.5  | 480.0  | 669.4  | 8007.8  | 19314.6 |
| 288.0  | 72.5° | 315.8  | 285.5  | 265.2  | 462.3  | 358.7  | 490.1  | 5004.2  | 16541.0 |
| 219.8  | 75°   | 252.6  | 229.9  | 204.6  | 305.7  | 267.8  | 371.3  | 2907.6  | 13704.2 |
| 138.9  | 77.5° | 181.9  | 171.8  | 144.0  | 224.8  | 194.5  | 267.8  | 1730.4  | 10574.3 |
| 85.9   | 80°   | 93.5   | 96.0   | 90.9   | 128.8  | 131.4  | 181.9  | 985.2   | 7237.3  |
| 55.6   | 82.5° | 55.6   | 42.9   | 48.0   | 63.2   | 75.8   | 103.6  | 371.3   | 4254.0  |
| 40.4   | 85°   | 35.4   | 22.7   | 22.7   | 30.3   | 37.9   | 40.4   | 113.7   | 1725.3  |
| 20.2   | 87.5° | 17.7   | 7.6    | 10.1   | 15.2   | 12.6   | 10.1   | 5.1     | 434.5   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

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