

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: P951328

Luminaire Tested: **GALN-SB5C-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951328  
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-SB5C-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

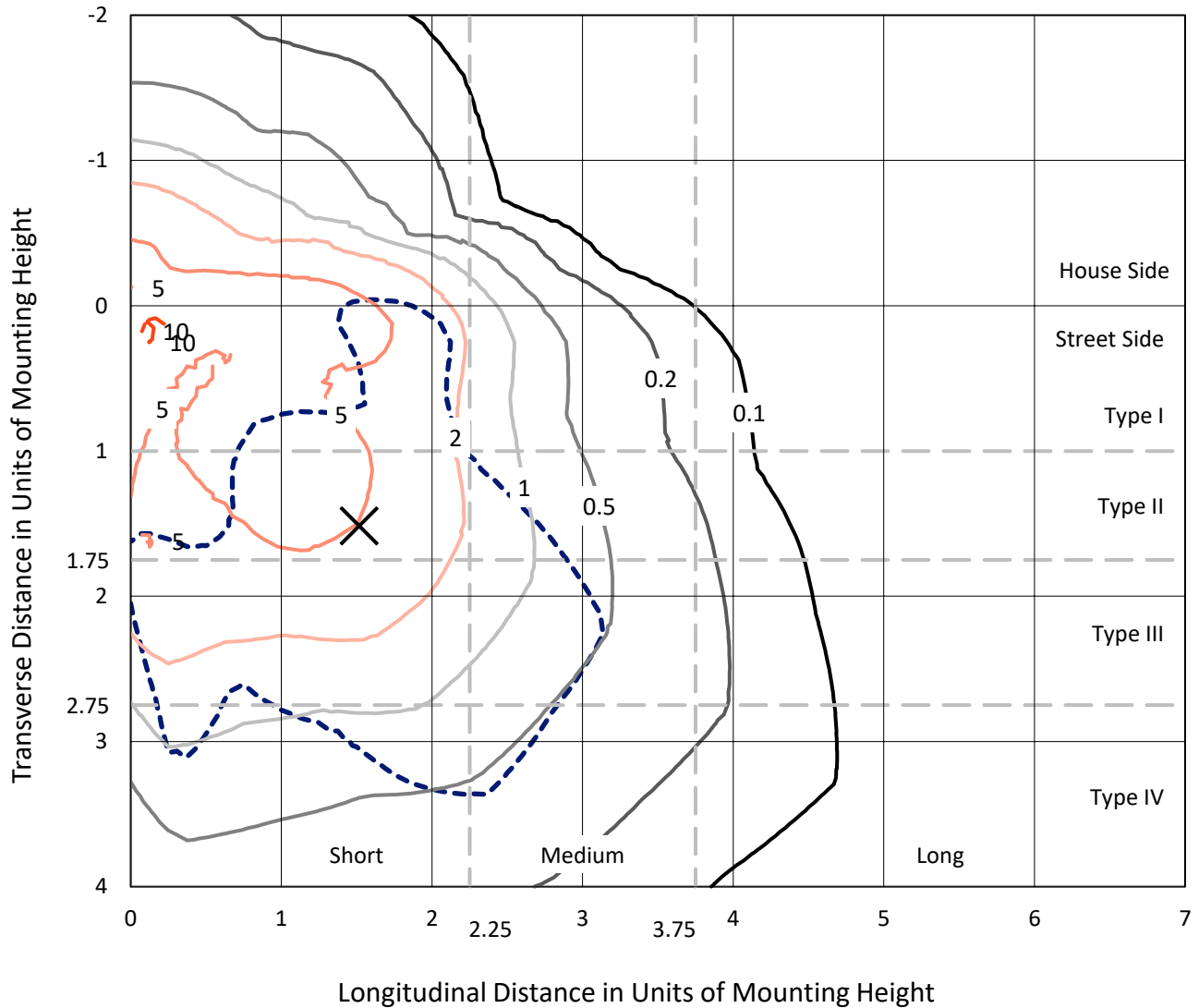
Lumens per Lamp: N/A  
Luminaire Lumens: 28872 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

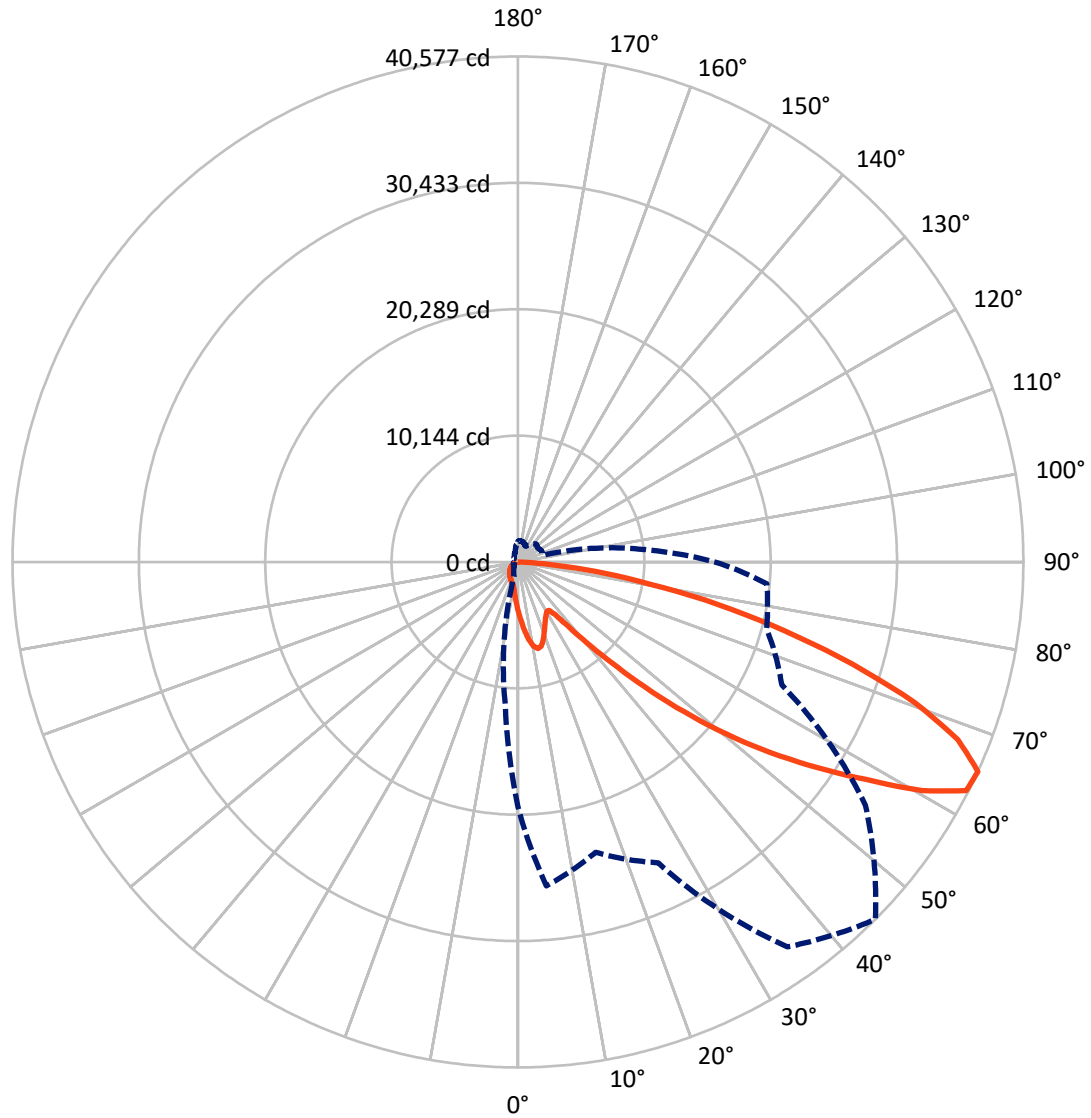
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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    | 5738.9   | 0.0    | 5738.9  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 23133.1  | 0.0    | 23133.1 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 28872.0  | 0.0    | 28872.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 393.6   | 1.4       |
| 10°-20°   | 1179.9  | 4.1       |
| 20°-30°   | 1738.2  | 6.0       |
| 30°-40°   | 2233.2  | 7.7       |
| 40°-50°   | 3611.7  | 12.5      |
| 50°-60°   | 6333.4  | 21.9      |
| 60°-70°   | 7924.9  | 27.4      |
| 70°-80°   | 4630.9  | 16.0      |
| 80°-90°   | 826.2   | 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°    | 28872.0 | 100.0     |
| 0°-180°   | 28872.0 | 100.0     |

**Coefficient of Utilization**



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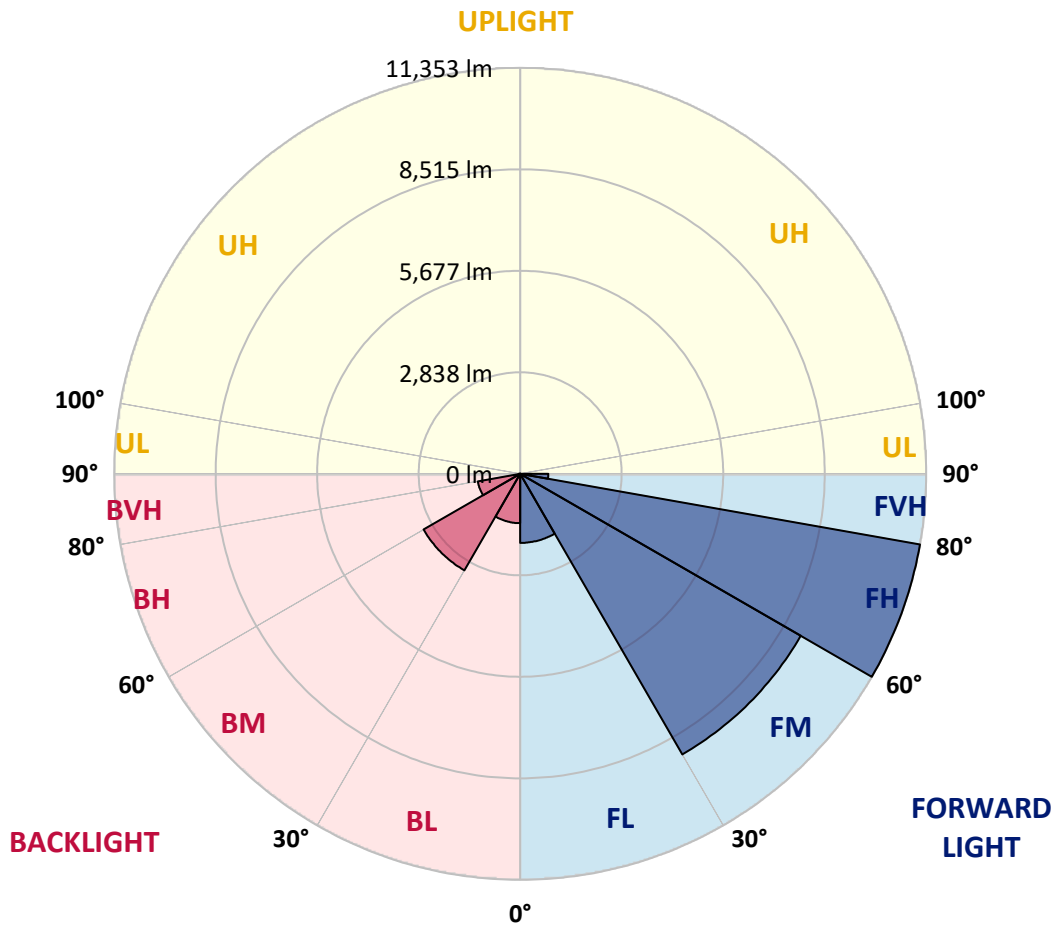
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1931.9  | 6.7       |                         |      |          |
| FM (30°-60°)   | 9060.4  | 31.4      |                         |      |          |
| FH (60°-80°)   | 11353.4 | 39.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 787.5   | 2.7       |                         |      | G5       |
| BL (0°-30°)    | 1379.9  | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 3117.9  | 10.8      | B3/5000                 |      |          |
| BH (60°-80°)   | 1202.4  | 4.2       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 38.7    | 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°    | 3997.8  | 3997.8  | 3997.8  | 3997.8  | 3997.8  | 3997.8  | 3997.8  | 3997.8  | 3997.8  | 3997.8  |
| 2.5°  | 4479.2  | 4513.0  | 4588.6  | 4628.4  | 4690.0  | 4694.0  | 4694.0  | 4640.3  | 4638.3  | 4528.9  |
| 5°    | 5006.3  | 5085.8  | 5264.8  | 5449.8  | 5489.6  | 5499.5  | 5479.6  | 5372.2  | 5292.7  | 5079.9  |
| 7.5°  | 5529.4  | 5682.5  | 5955.0  | 6201.6  | 6281.2  | 6281.2  | 6233.5  | 6058.4  | 5895.3  | 5587.0  |
| 10°   | 5963.0  | 6155.9  | 6525.8  | 6802.3  | 6893.8  | 6873.9  | 6776.5  | 6555.7  | 6330.9  | 5957.0  |
| 12.5° | 6249.4  | 6466.2  | 6871.9  | 7094.7  | 7188.2  | 7136.5  | 7025.1  | 6810.3  | 6573.6  | 6179.8  |
| 15°   | 6392.6  | 6619.3  | 6971.4  | 7088.7  | 7062.9  | 7009.2  | 6995.2  | 6891.8  | 6712.8  | 6344.8  |
| 17.5° | 6454.2  | 6665.1  | 6909.7  | 6836.1  | 6617.3  | 6575.6  | 6714.8  | 6846.1  | 6802.3  | 6488.1  |
| 20°   | 6511.9  | 6688.9  | 6762.5  | 6436.3  | 6054.5  | 6016.7  | 6283.2  | 6657.1  | 6848.1  | 6621.3  |
| 22.5° | 6591.5  | 6700.9  | 6549.7  | 6014.7  | 5603.0  | 5515.4  | 5809.8  | 6372.7  | 6862.0  | 6790.4  |
| 25°   | 6700.9  | 6730.7  | 6315.0  | 5614.9  | 5201.2  | 5113.7  | 5388.1  | 6056.4  | 6838.1  | 6973.4  |
| 27.5° | 6832.1  | 6770.5  | 6090.3  | 5280.7  | 4881.0  | 4799.4  | 5073.9  | 5752.1  | 6770.5  | 7156.3  |
| 30°   | 7003.2  | 6822.2  | 5867.5  | 5022.2  | 4652.2  | 4592.6  | 4857.1  | 5489.6  | 6686.9  | 7389.1  |
| 32.5° | 7176.2  | 6844.1  | 5660.6  | 4871.0  | 4600.5  | 4622.4  | 4839.2  | 5348.4  | 6595.5  | 7611.8  |
| 35°   | 7363.2  | 6913.7  | 5559.2  | 5020.2  | 5032.1  | 5223.1  | 5312.6  | 5479.6  | 6581.5  | 7914.1  |
| 37.5° | 7617.8  | 7068.8  | 5680.5  | 5762.1  | 6175.8  | 6571.6  | 6498.0  | 6122.1  | 6742.6  | 8365.6  |
| 40°   | 7983.8  | 7341.3  | 6209.6  | 7025.1  | 7874.4  | 8516.8  | 8236.4  | 7289.6  | 7235.9  | 9016.0  |
| 42.5° | 8516.8  | 7774.9  | 7148.4  | 8568.5  | 10008.5 | 11066.7 | 10314.8 | 8795.3  | 8099.1  | 9944.9  |
| 45°   | 9304.4  | 8477.0  | 8284.1  | 10197.5 | 12640.0 | 14306.7 | 12743.4 | 10400.4 | 9308.4  | 11351.1 |
| 47.5° | 10396.4 | 9509.3  | 9348.2  | 11914.0 | 15838.2 | 17994.3 | 15436.5 | 11888.1 | 10684.8 | 13268.5 |
| 50°   | 11846.4 | 10899.6 | 10356.6 | 13791.6 | 19344.8 | 21753.5 | 18127.6 | 13324.2 | 12262.1 | 15611.5 |
| 52.5° | 13759.8 | 12838.9 | 11532.1 | 15579.7 | 22950.8 | 25433.1 | 20830.6 | 14585.2 | 14219.2 | 18330.4 |
| 55°   | 16369.3 | 15756.7 | 13139.2 | 17286.2 | 26554.9 | 29134.6 | 23428.2 | 15774.6 | 16804.9 | 21560.5 |
| 57.5° | 19607.4 | 20044.9 | 15456.4 | 19265.3 | 29794.9 | 32949.4 | 26037.7 | 17437.4 | 20162.3 | 25172.5 |
| 60°   | 21695.8 | 25747.3 | 19893.8 | 22191.0 | 33476.5 | 37263.5 | 29613.9 | 20599.9 | 23690.7 | 26467.3 |
| 62.5° | 21190.6 | 27561.3 | 25208.3 | 25926.3 | 36861.8 | 40400.1 | 33118.5 | 23776.3 | 24355.1 | 24559.9 |
| 65°   | 19641.2 | 26097.4 | 24124.3 | 26652.3 | 37719.0 | 40577.2 | 34055.3 | 23366.5 | 20659.5 | 20050.9 |
| 67.5° | 17509.0 | 24361.0 | 21548.6 | 24727.0 | 36169.6 | 38102.9 | 32311.0 | 20669.5 | 15965.5 | 15046.6 |
| 70°   | 15207.7 | 22439.7 | 19858.0 | 22567.0 | 33216.0 | 33790.8 | 29345.4 | 18179.3 | 11742.9 | 10161.7 |
| 72.5° | 13023.8 | 20438.8 | 18700.4 | 20353.2 | 29275.8 | 28086.4 | 25484.8 | 15977.5 | 8550.6  | 7329.4  |
| 75°   | 10790.2 | 17487.1 | 17051.5 | 17723.8 | 24094.5 | 22123.4 | 21174.7 | 13228.7 | 6710.8  | 5302.6  |
| 77.5° | 8325.9  | 13664.3 | 14666.7 | 14193.4 | 16960.0 | 16432.9 | 16413.1 | 9940.9  | 4902.8  | 3538.4  |
| 80°   | 5698.4  | 9523.2  | 11458.5 | 10012.5 | 11007.0 | 10738.5 | 12361.5 | 6669.0  | 3556.3  | 2130.2  |
| 82.5° | 3349.4  | 5797.9  | 7975.8  | 4847.1  | 6086.3  | 6247.4  | 7361.2  | 3244.0  | 2092.4  | 491.3   |
| 85°   | 1358.5  | 2289.3  | 3118.7  | 1897.5  | 2935.7  | 2476.3  | 2794.5  | 911.0   | 582.8   | 11.9    |
| 87.5° | 342.1   | 731.9   | 513.2   | 212.8   | 340.1   | 312.3   | 246.6   | 111.4   | 23.9    | 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):**

| 90°     |       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3997.8  | 0°    | 3997.8  | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 |
| 4517.0  | 2.5°  | 4439.4  | 4393.7 | 4280.3 | 4166.9 | 4075.4 | 3952.1 | 3870.6 | 3773.1 | 3679.6 | 3596.1 |
| 5034.1  | 5°    | 4908.8  | 4757.6 | 4550.8 | 4361.8 | 4168.9 | 3981.9 | 3797.0 | 3602.0 | 3423.0 | 3313.6 |
| 5471.7  | 7.5°  | 5290.7  | 5024.2 | 4749.7 | 4509.0 | 4276.3 | 4057.5 | 3812.9 | 3576.2 | 3295.7 | 3146.6 |
| 5805.8  | 10°   | 5575.1  | 5225.0 | 4865.0 | 4588.6 | 4353.9 | 4141.1 | 3934.2 | 3695.5 | 3357.4 | 3170.4 |
| 6008.7  | 12.5° | 5762.1  | 5346.4 | 4924.7 | 4608.5 | 4345.9 | 4180.8 | 4089.3 | 3995.9 | 3659.7 | 3440.9 |
| 6157.9  | 15°   | 5891.4  | 5431.9 | 4966.5 | 4562.7 | 4240.5 | 4119.2 | 4210.7 | 4318.1 | 4103.3 | 3850.7 |
| 6313.0  | 17.5° | 6032.6  | 5543.3 | 4984.4 | 4439.4 | 4035.6 | 3983.9 | 4220.6 | 4469.2 | 4459.3 | 4208.7 |
| 6460.2  | 20°   | 6181.7  | 5640.7 | 4972.4 | 4240.5 | 3787.0 | 3832.8 | 4135.1 | 4423.5 | 4544.8 | 4409.6 |
| 6629.3  | 22.5° | 6334.9  | 5734.2 | 4926.7 | 3981.9 | 3554.3 | 3697.5 | 3999.8 | 4252.4 | 4395.6 | 4353.9 |
| 6836.1  | 25°   | 6527.8  | 5865.5 | 4859.1 | 3703.5 | 3361.4 | 3560.3 | 3842.7 | 4047.6 | 4147.0 | 4145.0 |
| 7058.9  | 27.5° | 6758.6  | 6040.5 | 4823.3 | 3478.7 | 3224.1 | 3405.1 | 3655.7 | 3838.7 | 3908.3 | 3908.3 |
| 7335.4  | 30°   | 7027.1  | 6247.4 | 4783.5 | 3331.5 | 3144.6 | 3244.0 | 3438.9 | 3618.0 | 3687.6 | 3687.6 |
| 7637.7  | 32.5° | 7325.4  | 6446.3 | 4688.0 | 3242.0 | 3084.9 | 3086.9 | 3210.2 | 3373.3 | 3456.8 | 3468.8 |
| 8015.6  | 35°   | 7683.4  | 6659.1 | 4479.2 | 3170.4 | 3015.3 | 2933.7 | 2993.4 | 3128.7 | 3228.1 | 3254.0 |
| 8554.6  | 37.5° | 8152.8  | 6919.7 | 4180.8 | 3065.0 | 2907.9 | 2772.6 | 2786.6 | 2890.0 | 2999.4 | 3039.2 |
| 9298.5  | 40°   | 8783.3  | 7226.0 | 3870.6 | 2913.9 | 2756.7 | 2595.6 | 2589.7 | 2665.2 | 2772.6 | 2816.4 |
| 10304.9 | 42.5° | 9616.7  | 7593.9 | 3574.2 | 2768.7 | 2573.7 | 2408.7 | 2398.7 | 2458.4 | 2551.9 | 2597.6 |
| 11633.5 | 45°   | 10682.8 | 8045.4 | 3319.6 | 2655.3 | 2394.7 | 2231.6 | 2227.7 | 2277.4 | 2358.9 | 2406.7 |
| 13334.1 | 47.5° | 12164.6 | 8496.9 | 3146.6 | 2595.6 | 2253.5 | 2086.4 | 2094.4 | 2138.2 | 2211.7 | 2245.6 |
| 15535.9 | 50°   | 14095.9 | 8634.2 | 3059.0 | 2595.6 | 2177.9 | 1957.2 | 1996.9 | 2032.7 | 2088.4 | 2108.3 |
| 18175.3 | 52.5° | 15949.6 | 8180.7 | 2979.5 | 2611.5 | 2187.9 | 1847.8 | 1933.3 | 1959.1 | 2006.9 | 2014.8 |
| 20621.7 | 55°   | 16858.6 | 7033.0 | 2870.1 | 2615.5 | 2249.5 | 1754.3 | 1881.6 | 1929.3 | 1947.2 | 1945.2 |
| 22041.9 | 57.5° | 16546.3 | 5686.5 | 2685.1 | 2599.6 | 2291.3 | 1694.6 | 1817.9 | 1909.4 | 1921.4 | 1903.5 |
| 21771.4 | 60°   | 15450.4 | 4186.8 | 2543.9 | 2482.2 | 2275.4 | 1676.7 | 1720.5 | 1865.7 | 1883.6 | 1859.7 |
| 19686.9 | 62.5° | 13612.6 | 2905.9 | 2434.5 | 2223.7 | 2205.8 | 1670.7 | 1567.3 | 1770.2 | 1813.9 | 1780.1 |
| 15824.3 | 65°   | 10716.6 | 2052.6 | 2096.4 | 1949.2 | 2054.6 | 1638.9 | 1408.2 | 1654.8 | 1714.5 | 1662.8 |
| 11480.4 | 67.5° | 7251.8  | 1481.8 | 1698.6 | 1766.2 | 1810.0 | 1567.3 | 1292.8 | 1523.6 | 1603.1 | 1535.5 |
| 7367.2  | 70°   | 3916.3  | 1040.2 | 1121.8 | 1487.8 | 1537.5 | 1444.0 | 1189.4 | 1390.3 | 1481.8 | 1408.2 |
| 5237.0  | 72.5° | 2313.2  | 747.9  | 785.6  | 1195.4 | 1280.9 | 1271.0 | 1074.0 | 1235.2 | 1346.5 | 1259.0 |
| 3614.0  | 75°   | 1274.9  | 505.2  | 560.9  | 867.2  | 1040.2 | 980.6  | 922.9  | 1046.2 | 1159.6 | 1074.0 |
| 2265.4  | 77.5° | 570.8   | 302.3  | 389.8  | 568.8  | 817.5  | 672.3  | 714.0  | 815.5  | 920.9  | 831.4  |
| 1261.0  | 80°   | 220.8   | 169.1  | 258.6  | 310.3  | 594.7  | 371.9  | 459.5  | 600.7  | 676.3  | 604.6  |
| 274.5   | 82.5° | 27.8    | 75.6   | 111.4  | 121.3  | 346.1  | 196.9  | 266.5  | 377.9  | 371.9  | 322.2  |
| 0.0     | 85°   | 0.0     | 13.9   | 15.9   | 8.0    | 149.2  | 71.6   | 87.5   | 123.3  | 115.4  | 87.5   |
| 0.0     | 87.5° | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.0    | 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3997.8 | 0°    | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 |
| 3580.2 | 2.5°  | 3482.7 | 3411.1 | 3375.3 | 3345.5 | 3373.3 | 3389.2 | 3389.2 | 3456.8 | 3496.6 | 3512.5 |
| 3244.0 | 5°    | 3069.0 | 2935.7 | 2846.2 | 2792.5 | 2810.4 | 2830.3 | 2852.2 | 2937.7 | 2995.4 | 3033.2 |
| 3011.3 | 7.5°  | 2742.8 | 2539.9 | 2414.6 | 2349.0 | 2358.9 | 2372.9 | 2390.8 | 2474.3 | 2532.0 | 2581.7 |
| 2967.6 | 10°   | 2581.7 | 2295.3 | 2130.2 | 2050.6 | 2036.7 | 2028.8 | 2022.8 | 2072.5 | 2116.3 | 2156.1 |
| 3146.6 | 12.5° | 2589.7 | 2189.9 | 1989.0 | 1891.5 | 1849.8 | 1802.0 | 1764.2 | 1772.2 | 1800.0 | 1849.8 |
| 3466.8 | 15°   | 2691.1 | 2156.1 | 1915.4 | 1794.1 | 1724.4 | 1668.8 | 1623.0 | 1613.1 | 1623.0 | 1631.0 |
| 3832.8 | 17.5° | 2828.3 | 2152.1 | 1851.7 | 1700.6 | 1629.0 | 1583.2 | 1541.5 | 1527.5 | 1529.5 | 1539.5 |
| 4075.4 | 20°   | 2937.7 | 2140.1 | 1780.1 | 1611.1 | 1547.4 | 1507.6 | 1465.9 | 1452.0 | 1455.9 | 1457.9 |
| 4099.3 | 22.5° | 2995.4 | 2122.2 | 1700.6 | 1521.6 | 1467.9 | 1428.1 | 1390.3 | 1388.3 | 1388.3 | 1400.2 |
| 3970.0 | 25°   | 2995.4 | 2084.5 | 1629.0 | 1436.0 | 1388.3 | 1352.5 | 1306.8 | 1314.7 | 1318.7 | 1334.6 |
| 3769.1 | 27.5° | 2923.8 | 2012.8 | 1571.3 | 1362.5 | 1312.7 | 1276.9 | 1235.2 | 1245.1 | 1251.1 | 1269.0 |
| 3570.2 | 30°   | 2832.3 | 1927.3 | 1505.7 | 1292.8 | 1235.2 | 1209.3 | 1173.5 | 1177.5 | 1185.4 | 1205.3 |
| 3385.2 | 32.5° | 2734.8 | 1825.9 | 1452.0 | 1223.2 | 1165.5 | 1145.7 | 1105.9 | 1111.8 | 1119.8 | 1141.7 |
| 3202.3 | 35°   | 2627.4 | 1706.5 | 1388.3 | 1159.6 | 1101.9 | 1086.0 | 1040.2 | 1044.2 | 1056.1 | 1080.0 |
| 3005.3 | 37.5° | 2514.1 | 1609.1 | 1324.7 | 1097.9 | 1038.2 | 1022.3 | 974.6  | 978.6  | 992.5  | 1020.3 |
| 2798.5 | 40°   | 2402.7 | 1513.6 | 1257.0 | 1032.3 | 972.6  | 958.7  | 907.0  | 911.0  | 926.9  | 956.7  |
| 2589.7 | 42.5° | 2281.4 | 1440.0 | 1169.5 | 964.7  | 901.0  | 887.1  | 839.3  | 845.3  | 863.2  | 893.1  |
| 2396.7 | 45°   | 2136.2 | 1392.3 | 1072.1 | 901.0  | 829.4  | 815.5  | 771.7  | 783.7  | 803.5  | 833.4  |
| 2231.6 | 47.5° | 1987.0 | 1372.4 | 990.5  | 833.4  | 755.8  | 743.9  | 708.1  | 728.0  | 749.8  | 773.7  |
| 2090.4 | 50°   | 1843.8 | 1346.5 | 907.0  | 769.7  | 692.2  | 680.2  | 656.4  | 682.2  | 704.1  | 726.0  |
| 1989.0 | 52.5° | 1680.7 | 1290.8 | 831.4  | 714.0  | 638.5  | 634.5  | 622.6  | 646.4  | 666.3  | 686.2  |
| 1901.5 | 55°   | 1511.6 | 1201.3 | 765.8  | 664.3  | 592.7  | 596.7  | 590.7  | 610.6  | 626.5  | 644.4  |
| 1821.9 | 57.5° | 1364.4 | 1088.0 | 714.0  | 610.6  | 552.9  | 564.9  | 556.9  | 566.9  | 576.8  | 598.7  |
| 1726.4 | 60°   | 1215.3 | 952.7  | 656.4  | 547.0  | 513.2  | 527.1  | 505.2  | 503.2  | 507.2  | 513.2  |
| 1585.2 | 62.5° | 1014.4 | 811.5  | 584.8  | 491.3  | 469.4  | 475.4  | 433.6  | 401.8  | 401.8  | 407.7  |
| 1388.3 | 65°   | 815.5  | 680.2  | 505.2  | 427.6  | 409.7  | 405.8  | 346.1  | 302.3  | 298.3  | 316.2  |
| 1159.6 | 67.5° | 670.3  | 564.9  | 425.6  | 356.0  | 344.1  | 348.1  | 304.3  | 260.6  | 256.6  | 276.5  |
| 944.8  | 70°   | 554.9  | 455.5  | 340.1  | 274.5  | 286.4  | 304.3  | 260.6  | 218.8  | 212.8  | 230.7  |
| 767.7  | 72.5° | 441.6  | 356.0  | 260.6  | 202.9  | 236.7  | 258.6  | 212.8  | 173.0  | 169.1  | 185.0  |
| 592.7  | 75°   | 324.2  | 254.6  | 177.0  | 147.2  | 183.0  | 202.9  | 155.1  | 123.3  | 117.3  | 131.3  |
| 395.8  | 77.5° | 200.9  | 143.2  | 111.4  | 87.5   | 125.3  | 135.3  | 81.5   | 71.6   | 69.6   | 79.6   |
| 240.7  | 80°   | 93.5   | 61.7   | 53.7   | 29.8   | 45.7   | 53.7   | 33.8   | 37.8   | 39.8   | 47.7   |
| 121.3  | 82.5° | 25.9   | 9.9    | 2.0    | 0.0    | 0.0    | 15.9   | 8.0    | 15.9   | 19.9   | 29.8   |
| 9.9    | 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.0    | 9.9    | 17.9   |
| 0.0    | 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 8.0    |
| 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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|--------|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 3997.8 | 0°    | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8 | 3997.8  | 3997.8  |
| 3623.9 | 2.5°  | 3707.5 | 3787.0 | 3914.3 | 4045.6 | 4174.9 | 4306.1 | 4433.4  | 4479.2  |
| 3206.2 | 5°    | 3363.4 | 3546.3 | 3799.0 | 4069.5 | 4347.9 | 4630.3 | 4888.9  | 5006.3  |
| 2774.6 | 7.5°  | 2979.5 | 3242.0 | 3621.9 | 4045.6 | 4489.1 | 4932.7 | 5340.4  | 5529.4  |
| 2347.0 | 10°   | 2569.8 | 2901.9 | 3335.5 | 3908.3 | 4544.8 | 5157.4 | 5718.3  | 5963.0  |
| 1971.1 | 12.5° | 2179.9 | 2528.0 | 3007.3 | 3693.5 | 4501.1 | 5286.7 | 5961.0  | 6249.4  |
| 1706.5 | 15°   | 1853.7 | 2162.0 | 2679.2 | 3438.9 | 4359.8 | 5294.7 | 6076.3  | 6392.6  |
| 1559.4 | 17.5° | 1609.1 | 1810.0 | 2345.0 | 3156.5 | 4174.9 | 5221.1 | 6116.1  | 6454.2  |
| 1479.8 | 20°   | 1487.8 | 1543.4 | 1911.4 | 2794.5 | 4001.8 | 5151.5 | 6155.9  | 6511.9  |
| 1416.2 | 22.5° | 1416.2 | 1430.1 | 1563.3 | 2327.1 | 3795.0 | 5129.6 | 6225.5  | 6591.5  |
| 1358.5 | 25°   | 1358.5 | 1362.5 | 1398.3 | 1843.8 | 3478.7 | 5115.7 | 6332.9  | 6700.9  |
| 1298.8 | 27.5° | 1300.8 | 1300.8 | 1320.7 | 1485.8 | 3049.1 | 5056.0 | 6472.1  | 6832.1  |
| 1239.1 | 30°   | 1243.1 | 1243.1 | 1257.0 | 1314.7 | 2545.9 | 4938.6 | 6639.2  | 7003.2  |
| 1179.5 | 32.5° | 1183.4 | 1183.4 | 1195.4 | 1237.1 | 2032.7 | 4791.5 | 6792.4  | 7176.2  |
| 1117.8 | 35°   | 1123.8 | 1119.8 | 1135.7 | 1179.5 | 1617.0 | 4604.5 | 6945.5  | 7363.2  |
| 1056.1 | 37.5° | 1060.1 | 1058.1 | 1074.0 | 1123.8 | 1396.3 | 4387.7 | 7060.9  | 7617.8  |
| 994.5  | 40°   | 992.5  | 992.5  | 1010.4 | 1064.1 | 1332.6 | 4115.2 | 7243.9  | 7983.8  |
| 930.8  | 42.5° | 930.8  | 926.9  | 946.8  | 1012.4 | 1284.9 | 3854.6 | 7572.0  | 8516.8  |
| 873.2  | 45°   | 871.2  | 863.2  | 881.1  | 962.7  | 1201.3 | 3763.1 | 8184.6  | 9304.4  |
| 817.5  | 47.5° | 815.5  | 795.6  | 811.5  | 903.0  | 1125.8 | 4105.3 | 9187.1  | 10396.4 |
| 767.7  | 50°   | 769.7  | 731.9  | 745.9  | 843.3  | 1068.1 | 4847.1 | 10487.9 | 11846.4 |
| 722.0  | 52.5° | 722.0  | 672.3  | 680.2  | 769.7  | 1016.4 | 5553.2 | 11898.1 | 13759.8 |
| 676.3  | 55°   | 672.3  | 616.6  | 620.6  | 696.1  | 942.8  | 5658.6 | 13274.4 | 16369.3 |
| 624.5  | 57.5° | 616.6  | 564.9  | 564.9  | 628.5  | 889.1  | 4904.8 | 14332.6 | 19607.4 |
| 560.9  | 60°   | 554.9  | 521.1  | 511.2  | 574.8  | 936.8  | 3460.8 | 14455.9 | 21695.8 |
| 479.3  | 62.5° | 487.3  | 469.4  | 455.5  | 523.1  | 972.6  | 2050.6 | 13463.4 | 21190.6 |
| 377.9  | 65°   | 409.7  | 405.8  | 395.8  | 574.8  | 819.5  | 1211.3 | 11558.0 | 19641.2 |
| 322.2  | 67.5° | 344.1  | 338.1  | 338.1  | 602.7  | 622.6  | 761.8  | 9030.0  | 17509.0 |
| 274.5  | 70°   | 296.4  | 274.5  | 274.5  | 455.5  | 377.9  | 527.1  | 6305.1  | 15207.7 |
| 226.7  | 72.5° | 248.6  | 224.8  | 208.8  | 364.0  | 282.4  | 385.9  | 3940.2  | 13023.8 |
| 173.0  | 75°   | 198.9  | 181.0  | 161.1  | 240.7  | 210.8  | 292.4  | 2289.3  | 10790.2 |
| 109.4  | 77.5° | 143.2  | 135.3  | 113.4  | 177.0  | 153.2  | 210.8  | 1362.5  | 8325.9  |
| 67.6   | 80°   | 73.6   | 75.6   | 71.6   | 101.4  | 103.4  | 143.2  | 775.7   | 5698.4  |
| 43.8   | 82.5° | 43.8   | 33.8   | 37.8   | 49.7   | 59.7   | 81.5   | 292.4   | 3349.4  |
| 31.8   | 85°   | 27.8   | 17.9   | 17.9   | 23.9   | 29.8   | 31.8   | 89.5    | 1358.5  |
| 15.9   | 87.5° | 13.9   | 6.0    | 8.0    | 11.9   | 9.9    | 8.0    | 4.0     | 342.1   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

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