

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: P650747

Luminaire Tested: **GALN-SA2C-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10249.3 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

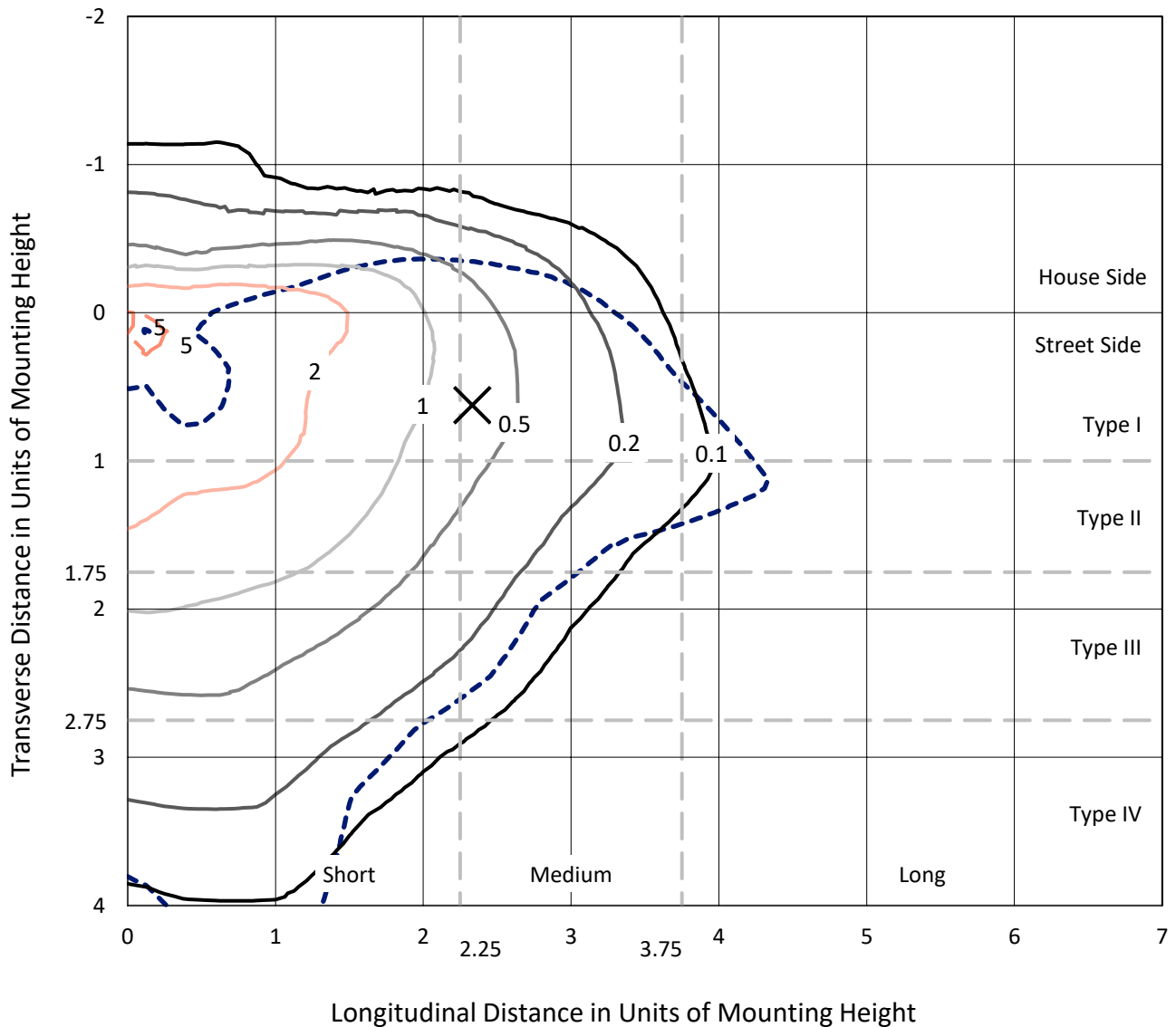
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

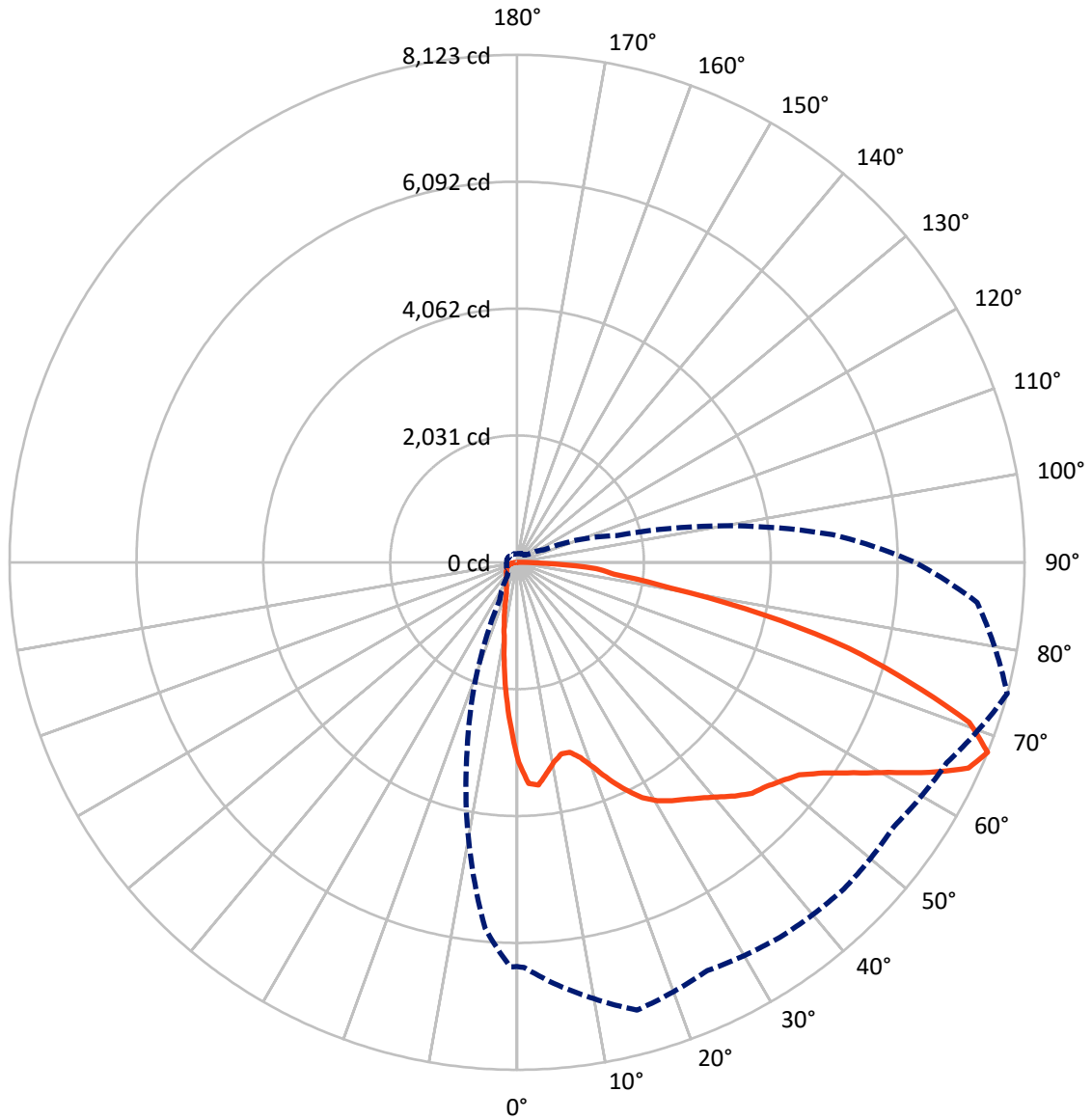
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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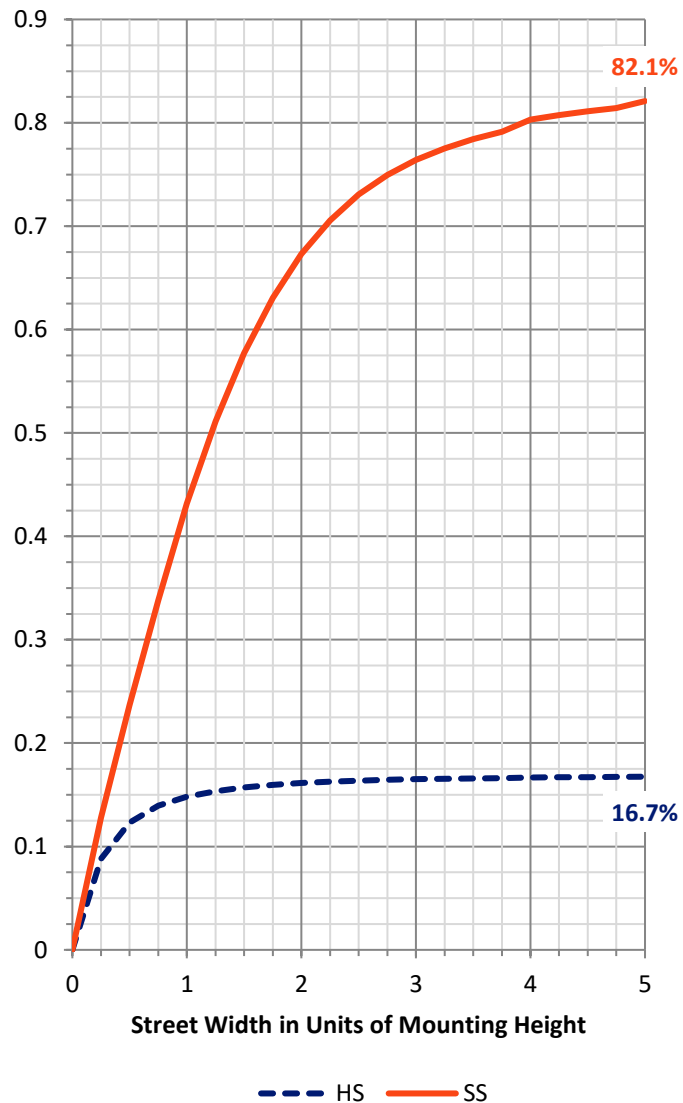
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1732.3   | 0.0    | 1732.3  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 8516.9   | 0.0    | 8516.9  |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 10249.3  | 0.0    | 10249.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 242.9   | 2.4       |
| 10°-20°   | 506.5   | 4.9       |
| 20°-30°   | 728.9   | 7.1       |
| 30°-40°   | 1049.8  | 10.2      |
| 40°-50°   | 1474.7  | 14.4      |
| 50°-60°   | 2056.7  | 20.1      |
| 60°-70°   | 2445.2  | 23.9      |
| 70°-80°   | 1440.1  | 14.1      |
| 80°-90°   | 304.5   | 3.0       |
| 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°    | 10249.3 | 100.0     |
| 0°-180°   | 10249.3 | 100.0     |

**Coefficient of Utilization**

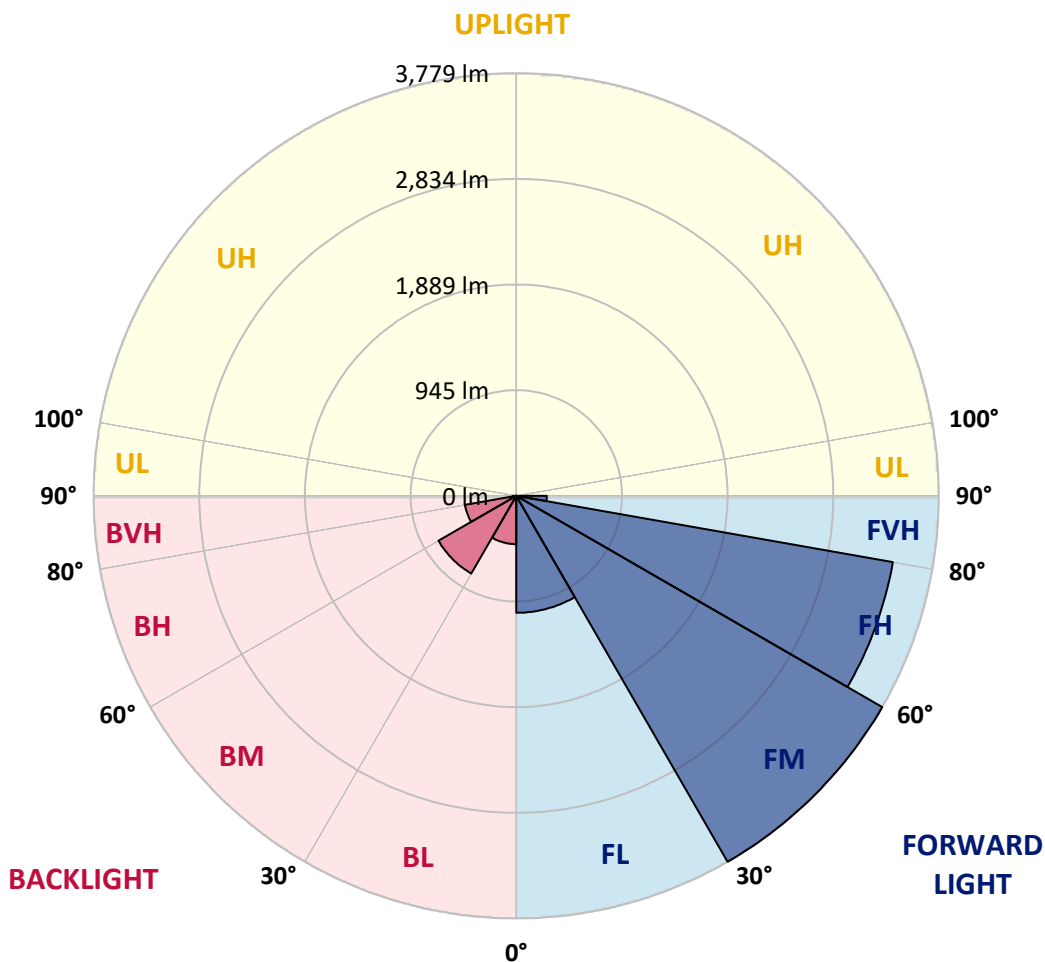


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1046.2 | 10.2      |                         |      |         |
| FM (30°-60°)   | 3778.5 | 36.9      |                         |      |         |
| FH (60°-80°)   | 3419.2 | 33.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 273.0  | 2.7       |                         |      | G3/500  |
| BL (0°-30°)    | 432.1  | 4.2       | B1/500                  |      |         |
| BM (30°-60°)   | 802.6  | 7.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 466.1  | 4.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 31.5   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 |
| 2.5°  | 3452.6 | 3457.1 | 3486.7 | 3572.8 | 3631.9 | 3653.6 | 3668.8 | 3640.5 | 3612.9 | 3545.8 | 3444.7 |
| 5°    | 3442.0 | 3469.0 | 3545.8 | 3739.1 | 3891.6 | 3957.3 | 3977.0 | 3892.2 | 3752.2 | 3580.1 | 3373.0 |
| 7.5°  | 3240.9 | 3277.0 | 3395.4 | 3719.4 | 3988.2 | 4142.0 | 4121.6 | 3968.4 | 3716.0 | 3409.2 | 3119.9 |
| 10°   | 3002.3 | 3042.4 | 3185.0 | 3576.8 | 3923.1 | 4134.8 | 4134.8 | 3948.1 | 3612.9 | 3248.1 | 2914.9 |
| 12.5° | 2813.1 | 2855.1 | 3018.1 | 3430.2 | 3787.7 | 3988.2 | 4021.7 | 3861.4 | 3538.6 | 3146.3 | 2780.2 |
| 15°   | 2750.6 | 2791.4 | 2966.8 | 3341.5 | 3644.5 | 3766.7 | 3777.9 | 3725.3 | 3502.5 | 3153.5 | 2774.2 |
| 17.5° | 2828.1 | 2880.7 | 3058.2 | 3367.7 | 3513.0 | 3520.3 | 3528.8 | 3570.2 | 3506.4 | 3285.6 | 2893.9 |
| 20°   | 3052.2 | 3108.8 | 3294.1 | 3452.6 | 3398.0 | 3323.0 | 3327.7 | 3434.1 | 3553.1 | 3503.8 | 3179.7 |
| 22.5° | 3375.6 | 3424.9 | 3614.9 | 3601.8 | 3349.4 | 3194.9 | 3162.7 | 3311.2 | 3622.1 | 3775.9 | 3484.1 |
| 25°   | 3724.6 | 3782.5 | 4000.6 | 3823.2 | 3363.2 | 3118.7 | 3098.2 | 3238.9 | 3693.8 | 4030.2 | 3835.7 |
| 27.5° | 4124.3 | 4180.8 | 4352.9 | 4046.6 | 3435.4 | 3112.7 | 3088.4 | 3232.4 | 3758.2 | 4265.6 | 4171.5 |
| 30°   | 4421.3 | 4473.2 | 4590.3 | 4234.7 | 3524.1 | 3152.2 | 3122.0 | 3284.3 | 3813.3 | 4426.6 | 4498.8 |
| 32.5° | 4654.6 | 4708.5 | 4772.3 | 4351.7 | 3641.2 | 3223.8 | 3168.0 | 3378.9 | 3885.7 | 4549.5 | 4741.4 |
| 35°   | 4897.8 | 4961.6 | 4956.9 | 4455.4 | 3750.3 | 3306.6 | 3252.1 | 3515.6 | 3999.4 | 4656.6 | 5048.9 |
| 37.5° | 5206.0 | 5231.7 | 5198.8 | 4548.8 | 3881.0 | 3455.8 | 3425.6 | 3718.7 | 4161.0 | 4786.0 | 5408.5 |
| 40°   | 5518.9 | 5570.2 | 5401.2 | 4661.8 | 4040.1 | 3736.5 | 3733.2 | 4019.1 | 4352.9 | 4937.9 | 5756.8 |
| 42.5° | 5787.1 | 5830.5 | 5590.5 | 4760.5 | 4232.7 | 4078.8 | 4103.8 | 4422.0 | 4604.6 | 5114.0 | 6036.9 |
| 45°   | 5988.8 | 6027.6 | 5765.4 | 4855.8 | 4486.4 | 4474.5 | 4621.8 | 4853.7 | 4922.1 | 5272.5 | 6201.1 |
| 47.5° | 6160.4 | 6197.8 | 5887.0 | 5000.3 | 4799.9 | 4947.1 | 5203.4 | 5304.0 | 5193.6 | 5363.1 | 6385.2 |
| 50°   | 6305.0 | 6316.2 | 5970.4 | 5172.6 | 5189.0 | 5526.1 | 5774.6 | 5839.7 | 5461.7 | 5493.2 | 6544.9 |
| 52.5° | 6455.5 | 6441.1 | 6114.4 | 5389.5 | 5609.6 | 6075.6 | 6256.4 | 6324.1 | 5718.7 | 5653.6 | 6777.5 |
| 55°   | 6792.7 | 6806.5 | 6437.1 | 5662.9 | 6034.8 | 6615.2 | 6853.1 | 6788.0 | 6003.3 | 5948.7 | 7073.3 |
| 57.5° | 7200.1 | 7188.4 | 6891.2 | 6090.7 | 6468.0 | 7117.4 | 7294.8 | 7190.3 | 6383.2 | 6354.3 | 7373.0 |
| 60°   | 7358.6 | 7374.3 | 7271.1 | 6550.8 | 6895.2 | 7557.1 | 7738.5 | 7576.1 | 6838.7 | 6825.6 | 7599.1 |
| 62.5° | 7199.5 | 7288.2 | 7357.9 | 6960.3 | 7259.3 | 7880.4 | 8060.5 | 7875.1 | 7313.8 | 7409.1 | 7757.5 |
| 65°   | 6882.7 | 6901.8 | 7139.0 | 7307.3 | 7434.8 | 7933.7 | 8027.6 | 7929.0 | 7710.9 | 7940.9 | 7750.2 |
| 67.5° | 6471.2 | 6487.7 | 6765.7 | 7421.0 | 7208.7 | 7329.0 | 7394.7 | 7365.8 | 7587.9 | 8123.0 | 7393.4 |
| 70°   | 6079.5 | 6066.4 | 6360.2 | 7131.2 | 6275.4 | 6092.7 | 6147.2 | 6056.5 | 6547.5 | 7678.0 | 6693.4 |
| 72.5° | 5317.1 | 5364.5 | 5679.9 | 6325.3 | 4968.8 | 4671.8 | 4790.7 | 4556.0 | 5035.8 | 6575.8 | 5432.8 |
| 75°   | 4165.0 | 4176.2 | 4702.6 | 5308.6 | 3748.3 | 3279.6 | 3440.7 | 3342.7 | 3857.4 | 5485.4 | 3751.5 |
| 77.5° | 2884.0 | 2859.1 | 3424.9 | 4054.5 | 2673.0 | 2400.9 | 2403.6 | 2356.9 | 2693.4 | 4038.8 | 2548.8 |
| 80°   | 1831.8 | 1793.6 | 2144.0 | 2504.8 | 1837.0 | 1965.2 | 1900.7 | 1898.8 | 1753.6 | 2491.6 | 1541.2 |
| 82.5° | 989.9  | 1031.9 | 1354.6 | 1570.1 | 1317.8 | 1518.9 | 1392.0 | 1351.3 | 1203.4 | 1559.6 | 985.9  |
| 85°   | 450.9  | 490.3  | 722.3  | 1068.1 | 1001.0 | 1012.1 | 676.3  | 797.9  | 995.7  | 1266.5 | 526.5  |
| 87.5° | 44.1   | 56.5   | 149.2  | 504.1  | 341.8  | 269.5  | 100.6  | 193.9  | 250.4  | 450.2  | 42.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 |
| 2.5°  | 3403.2 | 3369.0 | 3252.7 | 3156.8 | 3054.8 | 2977.3 | 2876.1 | 2808.4 | 2761.8 | 2691.5 | 2682.9 |
| 5°    | 3246.8 | 3163.3 | 2960.9 | 2754.5 | 2576.4 | 2442.3 | 2306.3 | 2181.4 | 2107.8 | 2084.8 | 2055.2 |
| 7.5°  | 2983.3 | 2842.6 | 2582.3 | 2345.7 | 2141.4 | 1941.5 | 1787.7 | 1678.6 | 1605.6 | 1562.9 | 1511.7 |
| 10°   | 2766.4 | 2603.4 | 2286.6 | 1996.7 | 1828.5 | 1704.3 | 1568.9 | 1451.9 | 1361.8 | 1284.9 | 1242.8 |
| 12.5° | 2620.5 | 2436.5 | 2080.2 | 1844.9 | 1714.8 | 1582.7 | 1424.2 | 1292.8 | 1160.1 | 1072.6 | 1035.2 |
| 15°   | 2576.4 | 2381.9 | 2016.5 | 1769.3 | 1582.7 | 1409.8 | 1232.3 | 1060.8 | 929.4  | 846.6  | 819.0  |
| 17.5° | 2684.2 | 2448.9 | 2015.8 | 1668.7 | 1427.5 | 1221.1 | 993.7  | 832.8  | 698.0  | 636.2  | 616.5  |
| 20°   | 2885.3 | 2577.7 | 2021.7 | 1569.5 | 1259.3 | 968.7  | 723.0  | 590.9  | 526.5  | 500.1  | 490.3  |
| 22.5° | 3165.9 | 2774.2 | 2039.4 | 1471.6 | 1075.2 | 744.0  | 541.6  | 474.5  | 451.5  | 446.9  | 445.0  |
| 25°   | 3511.7 | 3017.4 | 2099.2 | 1383.5 | 920.1  | 567.8  | 452.9  | 422.6  | 409.5  | 404.9  | 404.2  |
| 27.5° | 3829.7 | 3331.6 | 2171.5 | 1307.9 | 770.3  | 489.6  | 409.5  | 383.8  | 370.7  | 370.0  | 371.4  |
| 30°   | 4117.0 | 3594.5 | 2232.0 | 1223.2 | 656.6  | 435.1  | 381.2  | 355.6  | 343.0  | 342.5  | 346.4  |
| 32.5° | 4365.5 | 3810.7 | 2276.7 | 1139.6 | 593.5  | 401.6  | 355.6  | 328.0  | 317.5  | 315.5  | 317.5  |
| 35°   | 4631.0 | 4026.3 | 2256.3 | 1074.6 | 557.3  | 374.0  | 336.5  | 309.6  | 297.0  | 291.2  | 291.2  |
| 37.5° | 4934.0 | 4248.5 | 2221.5 | 1020.7 | 540.9  | 350.9  | 320.1  | 293.8  | 281.3  | 275.4  | 274.8  |
| 40°   | 5264.6 | 4470.6 | 2173.5 | 972.7  | 524.4  | 337.2  | 308.9  | 281.3  | 266.2  | 260.3  | 258.9  |
| 42.5° | 5556.4 | 4660.6 | 2134.1 | 941.2  | 497.5  | 339.8  | 299.1  | 272.1  | 253.1  | 245.2  | 244.5  |
| 45°   | 5810.0 | 4851.8 | 2126.9 | 922.7  | 475.2  | 335.9  | 296.5  | 264.8  | 242.5  | 234.0  | 232.7  |
| 47.5° | 6008.5 | 5051.0 | 2168.3 | 912.2  | 450.9  | 314.8  | 313.5  | 260.3  | 233.3  | 224.1  | 222.8  |
| 50°   | 6250.4 | 5333.5 | 2262.9 | 890.5  | 428.5  | 295.1  | 331.3  | 259.6  | 226.1  | 214.3  | 211.0  |
| 52.5° | 6572.5 | 5701.6 | 2391.0 | 851.8  | 396.3  | 276.7  | 316.1  | 259.6  | 217.6  | 205.7  | 201.8  |
| 55°   | 7059.5 | 6170.9 | 2516.6 | 797.3  | 350.9  | 252.4  | 285.3  | 251.7  | 205.0  | 194.5  | 191.9  |
| 57.5° | 7382.2 | 6514.0 | 2596.8 | 721.7  | 294.4  | 234.6  | 245.8  | 239.3  | 192.6  | 181.4  | 181.4  |
| 60°   | 7398.6 | 6606.0 | 2558.7 | 626.4  | 258.9  | 218.2  | 213.6  | 241.2  | 181.4  | 169.5  | 168.3  |
| 62.5° | 7209.4 | 6380.6 | 2360.2 | 540.9  | 239.9  | 200.5  | 193.3  | 211.6  | 170.2  | 158.4  | 156.4  |
| 65°   | 6913.6 | 5805.5 | 2015.8 | 500.1  | 229.3  | 184.7  | 174.2  | 173.5  | 158.4  | 147.3  | 144.6  |
| 67.5° | 6370.1 | 5073.3 | 1656.3 | 476.5  | 224.1  | 166.9  | 157.1  | 153.8  | 144.6  | 135.4  | 134.1  |
| 70°   | 5568.8 | 4249.1 | 1328.3 | 466.7  | 221.5  | 148.5  | 140.6  | 136.7  | 128.8  | 121.6  | 120.9  |
| 72.5° | 4332.6 | 3446.6 | 1096.3 | 460.1  | 220.2  | 131.4  | 122.9  | 117.7  | 113.0  | 106.5  | 106.5  |
| 75°   | 3112.0 | 2535.7 | 836.7  | 414.7  | 203.8  | 113.0  | 103.9  | 100.6  | 94.0   | 88.7   | 90.1   |
| 77.5° | 1961.9 | 1707.6 | 550.8  | 304.9  | 157.8  | 90.7   | 82.8   | 80.8   | 75.6   | 68.4   | 72.9   |
| 80°   | 1325.0 | 1200.8 | 321.4  | 191.9  | 99.2   | 66.4   | 63.7   | 63.1   | 57.2   | 49.3   | 50.0   |
| 82.5° | 901.7  | 884.6  | 166.9  | 109.1  | 57.2   | 38.8   | 37.4   | 38.8   | 32.2   | 26.3   | 26.3   |
| 85°   | 352.3  | 481.1  | 78.9   | 42.7   | 18.4   | 5.9    | 8.6    | 9.2    | 5.3    | 2.6    | 3.3    |
| 87.5° | 6.6    | 49.3   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 0.0    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 |
| 2.5°  | 2669.8 | 2663.9 | 2673.7 | 2631.7 | 2640.2 | 2656.0 | 2663.9 | 2668.4 | 2733.5 | 2718.4 | 2759.8 |
| 5°    | 2082.8 | 2076.9 | 2115.0 | 2120.2 | 2140.0 | 2136.1 | 2155.1 | 2159.7 | 2183.4 | 2191.9 | 2249.8 |
| 7.5°  | 1515.0 | 1540.6 | 1583.9 | 1606.3 | 1639.9 | 1650.4 | 1640.5 | 1664.8 | 1615.5 | 1651.0 | 1661.6 |
| 10°   | 1217.3 | 1186.3 | 1167.9 | 1219.2 | 1225.8 | 1274.4 | 1254.7 | 1238.9 | 1267.8 | 1269.2 | 1296.7 |
| 12.5° | 1013.5 | 947.1  | 903.1  | 917.5  | 933.3  | 954.3  | 957.6  | 989.2  | 1010.2 | 1029.9 | 1046.4 |
| 15°   | 794.6  | 771.6  | 731.5  | 711.8  | 734.1  | 742.7  | 763.0  | 789.4  | 811.7  | 817.6  | 840.0  |
| 17.5° | 609.9  | 613.8  | 607.3  | 595.4  | 609.3  | 615.9  | 617.1  | 617.8  | 623.8  | 619.8  | 652.6  |
| 20°   | 491.0  | 504.8  | 521.2  | 523.9  | 528.4  | 531.7  | 525.8  | 503.4  | 504.1  | 517.9  | 528.4  |
| 22.5° | 444.3  | 446.9  | 465.3  | 471.2  | 485.7  | 479.8  | 462.7  | 452.2  | 450.9  | 454.1  | 459.4  |
| 25°   | 407.5  | 411.4  | 424.6  | 433.8  | 445.0  | 434.5  | 421.9  | 412.1  | 410.7  | 414.1  | 419.3  |
| 27.5° | 374.7  | 380.6  | 392.4  | 401.6  | 412.1  | 402.3  | 390.4  | 381.9  | 381.2  | 380.6  | 383.8  |
| 30°   | 348.3  | 354.9  | 363.5  | 374.0  | 381.2  | 372.6  | 361.5  | 356.9  | 356.2  | 354.9  | 356.2  |
| 32.5° | 322.0  | 332.5  | 341.1  | 346.4  | 353.6  | 347.0  | 338.5  | 335.9  | 331.3  | 327.3  | 325.3  |
| 35°   | 292.5  | 303.7  | 316.8  | 323.4  | 330.6  | 324.0  | 318.1  | 307.0  | 299.1  | 298.4  | 299.7  |
| 37.5° | 275.4  | 280.0  | 290.5  | 301.7  | 308.9  | 305.6  | 294.4  | 283.2  | 281.3  | 281.3  | 282.6  |
| 40°   | 260.3  | 262.2  | 266.8  | 281.3  | 294.4  | 284.6  | 270.8  | 267.5  | 267.5  | 266.8  | 267.5  |
| 42.5° | 245.2  | 247.1  | 247.1  | 258.3  | 279.3  | 263.6  | 253.1  | 253.1  | 253.1  | 253.7  | 255.7  |
| 45°   | 231.4  | 232.0  | 231.4  | 239.3  | 258.9  | 245.8  | 238.6  | 240.5  | 241.9  | 243.2  | 244.5  |
| 47.5° | 219.5  | 220.2  | 219.5  | 226.1  | 236.0  | 230.7  | 226.7  | 229.3  | 232.0  | 234.0  | 235.3  |
| 50°   | 209.0  | 208.3  | 209.7  | 213.6  | 218.2  | 219.5  | 216.9  | 220.8  | 222.1  | 224.8  | 228.1  |
| 52.5° | 199.8  | 199.1  | 200.5  | 202.4  | 209.0  | 209.0  | 209.0  | 212.3  | 215.0  | 217.6  | 222.1  |
| 55°   | 189.3  | 190.0  | 191.9  | 194.5  | 203.1  | 201.8  | 202.4  | 205.0  | 207.7  | 211.6  | 214.3  |
| 57.5° | 179.5  | 180.7  | 183.3  | 187.3  | 195.9  | 195.2  | 195.9  | 197.2  | 200.5  | 202.4  | 205.0  |
| 60°   | 168.3  | 170.9  | 174.2  | 176.8  | 185.4  | 184.7  | 188.0  | 190.6  | 192.6  | 192.6  | 193.9  |
| 62.5° | 157.1  | 161.1  | 164.3  | 166.3  | 175.5  | 176.1  | 180.7  | 182.7  | 184.0  | 182.7  | 184.7  |
| 65°   | 145.9  | 151.8  | 153.1  | 155.8  | 165.0  | 165.6  | 170.9  | 175.5  | 174.2  | 172.8  | 176.1  |
| 67.5° | 134.7  | 142.0  | 141.3  | 144.6  | 153.8  | 155.1  | 159.7  | 167.6  | 165.0  | 163.7  | 166.3  |
| 70°   | 122.3  | 127.5  | 128.2  | 130.1  | 142.6  | 140.6  | 147.8  | 155.1  | 153.1  | 153.8  | 153.8  |
| 72.5° | 108.4  | 113.0  | 113.0  | 117.0  | 130.1  | 126.8  | 132.8  | 140.6  | 140.6  | 140.0  | 140.0  |
| 75°   | 92.0   | 94.6   | 97.3   | 103.2  | 117.0  | 113.0  | 117.0  | 124.2  | 125.6  | 124.2  | 124.2  |
| 77.5° | 74.3   | 78.2   | 79.6   | 87.4   | 97.3   | 96.6   | 100.6  | 103.9  | 106.5  | 105.1  | 105.1  |
| 80°   | 52.6   | 56.5   | 61.8   | 70.3   | 76.3   | 78.2   | 80.1   | 82.8   | 84.1   | 84.1   | 85.4   |
| 82.5° | 29.6   | 35.5   | 40.1   | 48.6   | 51.3   | 61.1   | 60.5   | 62.4   | 60.5   | 53.2   | 59.1   |
| 85°   | 6.6    | 12.4   | 17.7   | 22.4   | 25.7   | 35.5   | 37.4   | 42.0   | 34.8   | 32.2   | 32.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.3    | 10.5   | 14.5   | 12.4   | 10.5   | 10.5   |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 | 3202.1 |
| 2.5°  | 2794.6 | 2851.8 | 2920.8 | 3039.8 | 3123.2 | 3213.3 | 3304.0 | 3400.6 | 3426.2 | 3452.6 |
| 5°    | 2265.6 | 2377.9 | 2439.1 | 2598.8 | 2766.4 | 2979.3 | 3153.5 | 3344.1 | 3423.6 | 3442.0 |
| 7.5°  | 1716.1 | 1792.3 | 1952.7 | 2114.4 | 2322.1 | 2545.5 | 2812.4 | 3109.4 | 3202.1 | 3240.9 |
| 10°   | 1360.5 | 1464.3 | 1605.0 | 1778.5 | 1960.5 | 2201.1 | 2502.1 | 2849.1 | 2980.6 | 3002.3 |
| 12.5° | 1158.1 | 1273.8 | 1426.9 | 1610.3 | 1782.4 | 1963.8 | 2267.5 | 2625.7 | 2766.4 | 2813.1 |
| 15°   | 926.0  | 1066.1 | 1242.8 | 1436.1 | 1623.4 | 1821.9 | 2129.5 | 2533.7 | 2696.0 | 2750.6 |
| 17.5° | 727.5  | 840.6  | 1031.9 | 1241.6 | 1463.7 | 1714.8 | 2100.6 | 2577.7 | 2777.6 | 2828.1 |
| 20°   | 556.7  | 637.6  | 798.5  | 1020.0 | 1280.3 | 1608.9 | 2107.8 | 2744.0 | 2983.3 | 3052.2 |
| 22.5° | 481.1  | 522.5  | 620.4  | 831.4  | 1122.6 | 1516.9 | 2137.4 | 2972.1 | 3260.6 | 3375.6 |
| 25°   | 435.7  | 457.4  | 512.7  | 650.7  | 972.1  | 1427.5 | 2205.1 | 3279.0 | 3648.4 | 3724.6 |
| 27.5° | 397.0  | 412.8  | 446.9  | 546.1  | 835.4  | 1344.8 | 2283.9 | 3619.5 | 4010.6 | 4124.3 |
| 30°   | 360.2  | 381.2  | 413.4  | 485.1  | 748.0  | 1269.2 | 2383.1 | 3895.5 | 4315.5 | 4421.3 |
| 32.5° | 331.9  | 353.0  | 382.5  | 442.4  | 673.6  | 1189.6 | 2442.3 | 4138.1 | 4564.6 | 4654.6 |
| 35°   | 308.9  | 326.6  | 357.5  | 408.1  | 617.1  | 1129.1 | 2430.5 | 4330.6 | 4805.8 | 4897.8 |
| 37.5° | 292.5  | 307.6  | 338.5  | 375.9  | 574.4  | 1066.1 | 2424.6 | 4585.0 | 5099.6 | 5206.0 |
| 40°   | 277.4  | 293.2  | 321.4  | 354.9  | 531.7  | 991.8  | 2427.9 | 4837.3 | 5412.4 | 5518.9 |
| 42.5° | 265.5  | 283.2  | 306.3  | 349.0  | 487.7  | 932.0  | 2427.9 | 5056.8 | 5684.6 | 5787.1 |
| 45°   | 255.7  | 274.8  | 297.0  | 348.3  | 452.9  | 886.7  | 2411.5 | 5245.5 | 5901.5 | 5988.8 |
| 47.5° | 247.1  | 268.2  | 300.3  | 336.5  | 444.3  | 853.8  | 2397.0 | 5396.7 | 6078.2 | 6160.4 |
| 50°   | 241.2  | 266.2  | 319.4  | 322.7  | 446.9  | 843.9  | 2466.7 | 5587.3 | 6234.0 | 6305.0 |
| 52.5° | 236.6  | 266.8  | 318.7  | 302.3  | 442.4  | 850.5  | 2611.9 | 5885.0 | 6450.2 | 6455.5 |
| 55°   | 227.4  | 266.2  | 302.3  | 279.3  | 423.3  | 861.7  | 2798.6 | 6317.5 | 6788.7 | 6792.7 |
| 57.5° | 218.2  | 258.9  | 280.6  | 259.6  | 384.5  | 861.7  | 3023.3 | 6726.9 | 7196.9 | 7200.1 |
| 60°   | 209.0  | 269.5  | 246.5  | 242.5  | 333.9  | 845.9  | 3260.6 | 6907.0 | 7325.0 | 7358.6 |
| 62.5° | 199.8  | 271.5  | 220.2  | 227.4  | 297.0  | 807.8  | 3437.4 | 6707.9 | 7151.5 | 7199.5 |
| 65°   | 189.3  | 218.8  | 203.1  | 211.6  | 278.0  | 744.0  | 3381.6 | 6343.1 | 6825.6 | 6882.7 |
| 67.5° | 176.8  | 185.4  | 184.7  | 195.2  | 271.5  | 650.0  | 3087.1 | 5881.7 | 6474.5 | 6471.2 |
| 70°   | 161.7  | 166.3  | 168.3  | 179.5  | 258.9  | 577.1  | 2572.5 | 5283.0 | 6005.9 | 6079.5 |
| 72.5° | 145.9  | 149.9  | 151.8  | 161.7  | 246.5  | 535.6  | 1996.7 | 4458.1 | 5202.1 | 5317.1 |
| 75°   | 128.8  | 131.4  | 134.1  | 142.6  | 233.3  | 474.5  | 1422.3 | 3403.2 | 3984.2 | 4165.0 |
| 77.5° | 111.1  | 111.1  | 114.4  | 122.9  | 196.5  | 391.7  | 954.3  | 2387.1 | 2699.4 | 2884.0 |
| 80°   | 90.1   | 90.7   | 89.4   | 98.6   | 144.6  | 268.2  | 542.2  | 1594.5 | 1796.3 | 1831.8 |
| 82.5° | 69.0   | 67.0   | 67.7   | 72.3   | 107.8  | 182.7  | 289.2  | 990.4  | 1009.5 | 989.9  |
| 85°   | 43.4   | 43.4   | 42.0   | 47.3   | 69.0   | 95.3   | 157.8  | 606.6  | 473.9  | 450.9  |
| 87.5° | 17.7   | 14.5   | 16.4   | 19.1   | 32.9   | 38.8   | 61.8   | 124.9  | 48.0   | 44.1   |
| 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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