

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: P648434

Luminaire Tested: **GALN-SA5B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12335.4 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

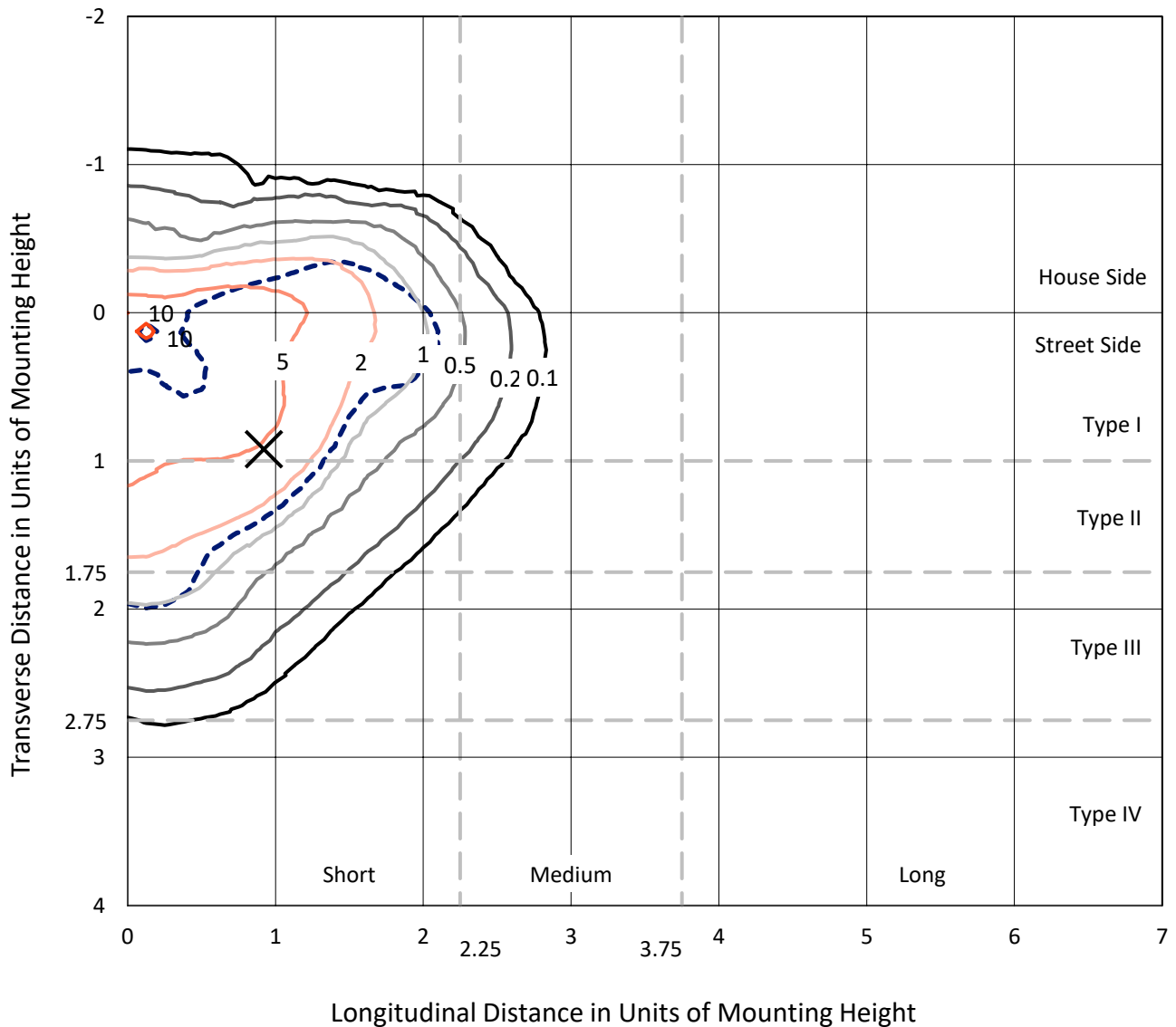
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

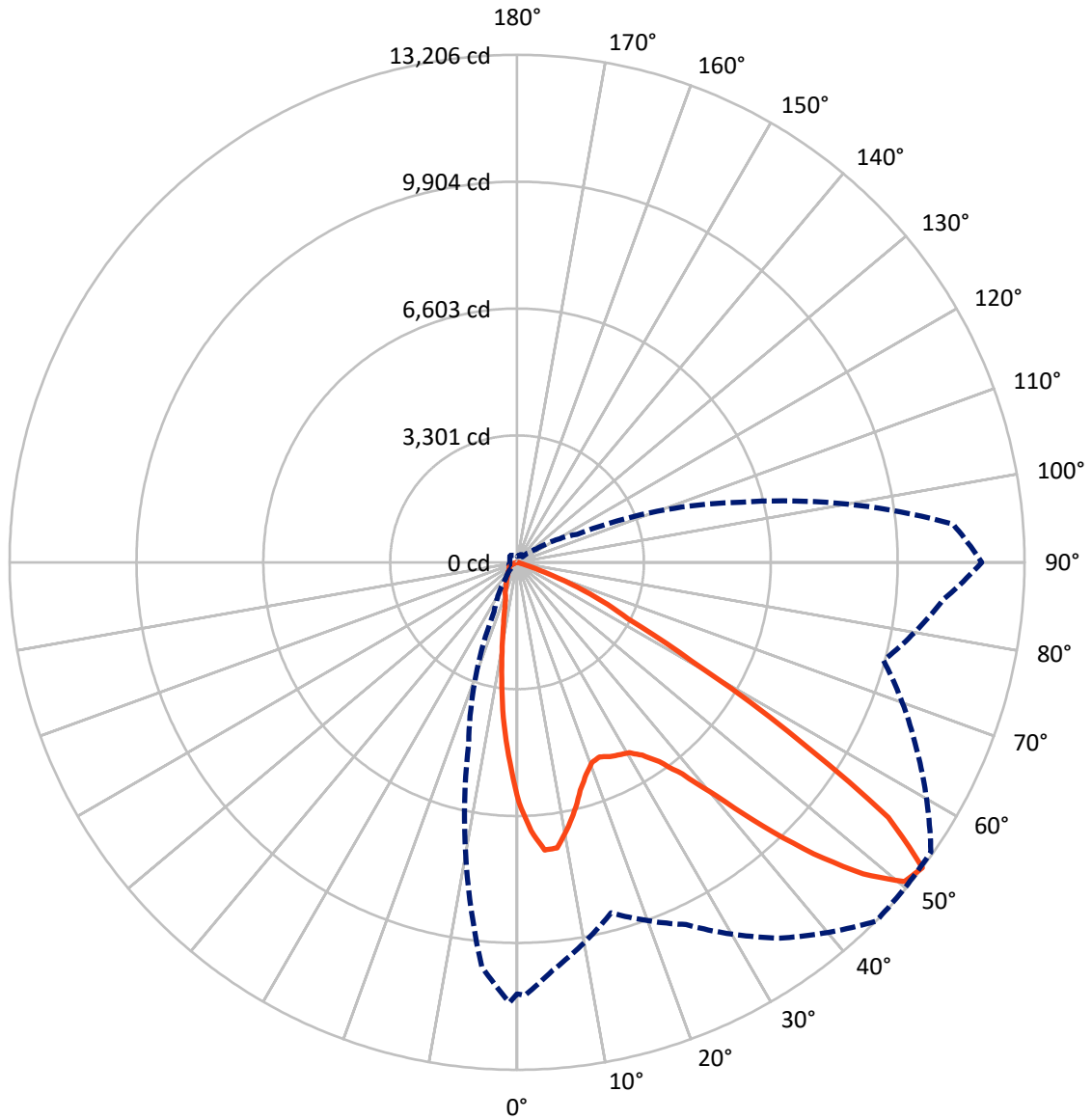
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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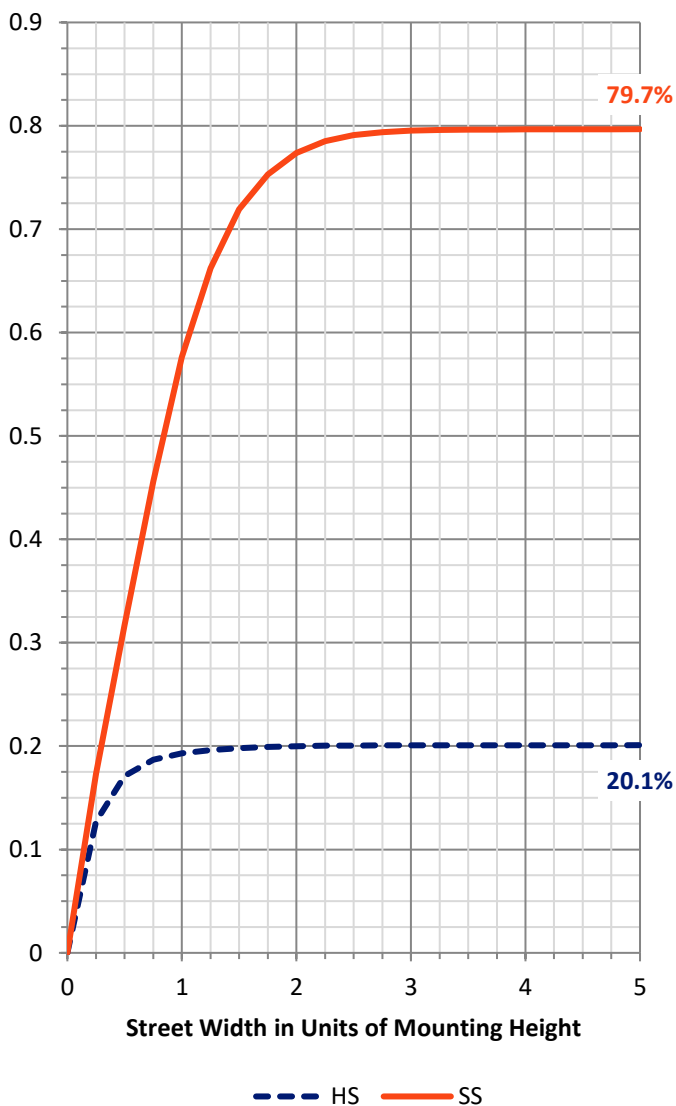
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2503.5   | 0.0    | 2503.5  |
|                    | % Fixture | 20.3     | 0.0    | 20.3    |
| <b>Street Side</b> | Lumens    | 9831.9   | 0.0    | 9831.9  |
|                    | % Fixture | 79.7     | 0.0    | 79.7    |
| <b>Total</b>       | Lumens    | 12335.4  | 0.0    | 12335.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 456.1   | 3.7       |
| 10°-20°   | 899.9   | 7.3       |
| 20°-30°   | 1369.6  | 11.1      |
| 30°-40°   | 2047.0  | 16.6      |
| 40°-50°   | 2915.1  | 23.6      |
| 50°-60°   | 3133.6  | 25.4      |
| 60°-70°   | 1388.6  | 11.3      |
| 70°-80°   | 112.4   | 0.9       |
| 80°-90°   | 13.1    | 0.1       |
| 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°    | 12335.4 | 100.0     |
| 0°-180°   | 12335.4 | 100.0     |

**Coefficient of Utilization**



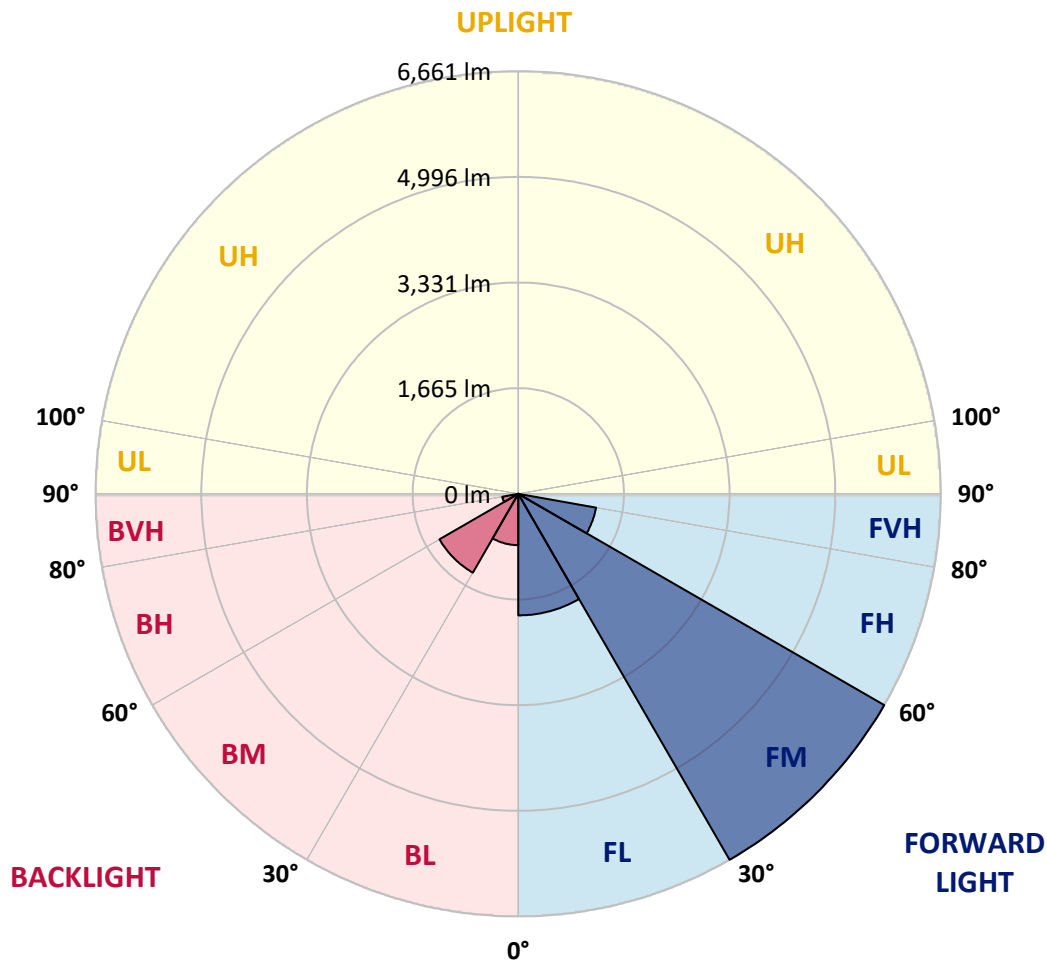
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1915.9 | 15.5      |                         |      |         |
| FM (30°-60°)   | 6661.5 | 54.0      |                         |      |         |
| FH (60°-80°)   | 1244.8 | 10.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 9.7    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 809.7  | 6.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1434.2 | 11.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 256.1  | 2.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°    | 85°     |
|-------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|
| 0°    | 6254.6  | 6254.6  | 6254.6  | 6254.6 | 6254.6  | 6254.6  | 6254.6  | 6254.6  | 6254.6  | 6254.6 | 6254.6  |
| 2.5°  | 6618.5  | 6638.0  | 6744.7  | 6878.1 | 6948.5  | 7108.6  | 6997.0  | 7026.1  | 6965.5  | 6752.0 | 6584.6  |
| 5°    | 6417.2  | 6414.7  | 6550.6  | 6880.5 | 7193.5  | 7511.3  | 7521.0  | 7351.2  | 7052.8  | 6725.3 | 6257.0  |
| 7.5°  | 5810.6  | 5905.2  | 6045.9  | 6572.4 | 7152.3  | 7390.0  | 7504.1  | 7305.2  | 6846.6  | 6378.3 | 5871.2  |
| 10°   | 5352.1  | 5400.6  | 5638.4  | 6274.0 | 6698.6  | 7016.4  | 7086.8  | 6972.8  | 6621.0  | 6036.2 | 5468.6  |
| 12.5° | 5087.6  | 5111.9  | 5390.9  | 5924.6 | 6373.5  | 6608.8  | 6642.8  | 6696.1  | 6443.9  | 5895.5 | 5213.8  |
| 15°   | 5090.0  | 5109.5  | 5485.5  | 5931.9 | 6109.0  | 6045.9  | 6157.6  | 6155.2  | 6264.3  | 5868.8 | 5427.3  |
| 17.5° | 5456.4  | 5478.3  | 5817.9  | 6038.7 | 5961.1  | 5813.1  | 5805.8  | 5917.4  | 6147.9  | 6201.2 | 5750.0  |
| 20°   | 6087.2  | 6138.2  | 6388.0  | 6375.9 | 5939.2  | 5640.8  | 5558.3  | 5643.2  | 6179.4  | 6482.7 | 6400.2  |
| 22.5° | 6936.4  | 7006.8  | 7181.4  | 6846.6 | 6038.7  | 5524.4  | 5497.7  | 5662.7  | 6388.0  | 7111.0 | 7137.7  |
| 25°   | 7921.4  | 8040.2  | 8125.2  | 7695.7 | 6392.9  | 5725.7  | 5599.5  | 5883.4  | 6669.5  | 7792.8 | 8076.6  |
| 27.5° | 8574.0  | 8697.7  | 8678.3  | 8064.5 | 6630.7  | 5779.1  | 5672.4  | 5936.8  | 6914.5  | 7955.4 | 8566.7  |
| 30°   | 9083.5  | 9158.8  | 9294.6  | 8263.5 | 6868.4  | 5929.5  | 5747.5  | 6162.4  | 6994.6  | 8236.8 | 9158.8  |
| 32.5° | 9677.9  | 9728.9  | 9738.6  | 8615.3 | 7234.8  | 6118.8  | 5980.5  | 6443.9  | 7348.8  | 8506.0 | 9682.7  |
| 35°   | 10277.2 | 10352.4 | 10194.7 | 9049.5 | 7460.4  | 6470.6  | 6368.6  | 6931.5  | 7632.7  | 8785.1 | 10260.2 |
| 37.5° | 10927.4 | 10966.2 | 10602.3 | 9229.1 | 7783.1  | 7043.1  | 6987.3  | 7458.0  | 8125.2  | 9289.7 | 10900.7 |
| 40°   | 11473.2 | 11509.6 | 11036.5 | 9449.9 | 8122.8  | 7843.7  | 7986.9  | 8462.4  | 8794.8  | 9617.3 | 11220.9 |
| 42.5° | 11776.6 | 11861.4 | 11182.1 | 9328.5 | 8804.5  | 8751.1  | 9386.8  | 9554.2  | 9571.2  | 9709.4 | 11507.2 |
| 45°   | 11859.0 | 11820.2 | 10942.0 | 9428.0 | 9401.3  | 10243.2 | 10820.6 | 11041.4 | 10342.6 | 9879.3 | 11580.0 |
| 47.5° | 11478.1 | 11529.0 | 10587.7 | 9340.6 | 10185.0 | 11373.8 | 12121.1 | 12531.1 | 10917.7 | 9731.3 | 11400.5 |
| 50°   | 11170.0 | 11104.5 | 10473.7 | 9277.6 | 10396.0 | 11907.6 | 13060.0 | 13152.1 | 11446.6 | 9913.2 | 11203.9 |
| 52.5° | 11230.6 | 11271.9 | 10655.6 | 9445.0 | 10400.9 | 11939.1 | 13205.5 | 13142.4 | 11463.6 | 9872.0 | 11133.6 |
| 55°   | 11359.2 | 11177.2 | 10578.0 | 9076.2 | 9704.6  | 11058.4 | 11720.7 | 11623.7 | 10580.4 | 9432.9 | 10961.4 |
| 57.5° | 9801.7  | 10083.1 | 9726.4  | 8103.3 | 7965.1  | 8331.4  | 8319.3  | 8617.7  | 7892.2  | 8117.9 | 9978.8  |
| 60°   | 7955.4  | 8003.9  | 8137.3  | 6931.5 | 5512.2  | 5386.0  | 5211.3  | 5022.2  | 5310.9  | 6941.2 | 9076.2  |
| 62.5° | 6997.0  | 6938.8  | 7414.3  | 6305.6 | 3891.5  | 3258.3  | 3229.2  | 3345.7  | 4097.8  | 6621.0 | 8513.3  |
| 65°   | 5085.2  | 5158.0  | 5502.5  | 4893.5 | 2921.1  | 2486.8  | 2443.1  | 2787.6  | 3316.6  | 5306.0 | 6497.3  |
| 67.5° | 3105.5  | 3246.2  | 3277.7  | 3018.2 | 1982.2  | 1574.5  | 1511.5  | 1824.5  | 2394.6  | 3433.0 | 3809.1  |
| 70°   | 1433.8  | 1603.7  | 1763.8  | 1647.4 | 1147.6  | 647.8   | 611.4   | 766.6   | 1208.2  | 1974.9 | 2021.0  |
| 72.5° | 434.3   | 436.7   | 611.4   | 638.1  | 371.2   | 145.6   | 128.6   | 169.8   | 410.1   | 652.6  | 686.6   |
| 75°   | 31.6    | 34.0    | 82.5    | 94.6   | 70.4    | 36.4    | 38.8    | 46.1    | 87.3    | 145.6  | 109.2   |
| 77.5° | 2.4     | 2.4     | 2.4     | 12.1   | 21.8    | 24.3    | 31.6    | 36.4    | 46.1    | 53.4   | 48.5    |
| 80°   | 2.4     | 0.0     | 2.4     | 9.7    | 17.0    | 24.3    | 29.1    | 34.0    | 36.4    | 41.3   | 36.4    |
| 82.5° | 0.0     | 0.0     | 0.0     | 7.3    | 17.0    | 24.3    | 26.7    | 36.4    | 41.3    | 48.5   | 41.3    |
| 85°   | 0.0     | 0.0     | 0.0     | 7.3    | 17.0    | 26.7    | 24.3    | 12.1    | 0.0     | 0.0    | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6254.6  | 6254.6  | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 |
| 2.5°  | 6613.7  | 6519.1  | 6303.2 | 6193.9 | 5936.8 | 5900.4 | 5648.1 | 5606.8 | 5522.0 | 5475.8 | 5364.2 |
| 5°    | 6050.8  | 5936.8  | 5585.0 | 5289.0 | 4944.5 | 4704.3 | 4519.9 | 4352.5 | 4255.4 | 4165.7 | 4207.0 |
| 7.5°  | 5592.3  | 5259.9  | 4869.2 | 4374.3 | 3976.5 | 3719.2 | 3437.8 | 3207.4 | 3071.5 | 2979.3 | 3001.2 |
| 10°   | 5111.9  | 4895.9  | 4352.5 | 3796.9 | 3316.6 | 3134.6 | 2913.8 | 2736.7 | 2545.1 | 2380.1 | 2302.4 |
| 12.5° | 4961.5  | 4641.2  | 3959.5 | 3394.1 | 3030.3 | 2853.2 | 2600.8 | 2397.0 | 2152.0 | 1950.6 | 1880.3 |
| 15°   | 4988.2  | 4680.1  | 3852.8 | 3248.6 | 2819.2 | 2513.5 | 2212.7 | 1960.3 | 1691.0 | 1550.3 | 1477.5 |
| 17.5° | 5422.4  | 4888.7  | 3923.1 | 3095.7 | 2525.6 | 2101.0 | 1729.9 | 1409.6 | 1208.2 | 1062.7 | 1031.1 |
| 20°   | 5956.2  | 5340.0  | 4073.5 | 2984.2 | 2285.4 | 1671.6 | 1264.0 | 987.4  | 820.0  | 795.8  | 788.5  |
| 22.5° | 6737.4  | 6077.5  | 4396.2 | 2908.9 | 1991.9 | 1302.8 | 866.2  | 718.2  | 672.0  | 667.2  | 669.6  |
| 25°   | 7829.2  | 7001.9  | 4748.0 | 2845.9 | 1771.1 | 1004.4 | 708.5  | 608.9  | 594.4  | 587.1  | 599.2  |
| 27.5° | 8302.3  | 7559.9  | 4934.8 | 2710.0 | 1569.7 | 905.0  | 698.7  | 604.1  | 562.9  | 550.8  | 558.0  |
| 30°   | 8887.0  | 7931.1  | 5228.3 | 2477.1 | 1273.7 | 744.8  | 652.6  | 657.5  | 638.1  | 577.5  | 558.0  |
| 32.5° | 9663.3  | 8394.5  | 5376.3 | 2312.1 | 1137.9 | 616.2  | 477.9  | 439.1  | 490.1  | 499.8  | 516.8  |
| 35°   | 10160.7 | 8865.1  | 5451.6 | 2215.1 | 1067.5 | 526.5  | 405.2  | 368.8  | 356.7  | 359.1  | 368.8  |
| 37.5° | 11085.1 | 9500.8  | 5546.1 | 2113.2 | 1014.1 | 458.5  | 366.4  | 332.4  | 315.4  | 315.4  | 325.1  |
| 40°   | 11638.2 | 10005.4 | 5674.8 | 2057.4 | 960.7  | 417.3  | 332.4  | 303.3  | 288.7  | 288.7  | 293.5  |
| 42.5° | 11776.6 | 10255.3 | 5631.1 | 2038.0 | 900.1  | 407.6  | 303.3  | 281.4  | 264.4  | 262.0  | 259.6  |
| 45°   | 12024.0 | 10636.3 | 5638.4 | 2016.1 | 837.0  | 371.2  | 286.3  | 262.0  | 237.8  | 235.4  | 232.9  |
| 47.5° | 12295.7 | 10910.4 | 5652.9 | 1931.2 | 776.3  | 310.5  | 298.4  | 242.7  | 213.5  | 208.7  | 208.7  |
| 50°   | 12062.8 | 11128.8 | 5779.1 | 1846.3 | 698.7  | 252.3  | 293.5  | 228.1  | 189.3  | 182.0  | 184.4  |
| 52.5° | 12091.9 | 11385.9 | 6045.9 | 1727.5 | 601.7  | 201.4  | 237.8  | 216.0  | 172.3  | 160.1  | 162.6  |
| 55°   | 11626.1 | 11114.2 | 6082.3 | 1601.2 | 470.7  | 155.3  | 182.0  | 189.3  | 145.6  | 140.7  | 140.7  |
| 57.5° | 10007.8 | 9411.0  | 5366.6 | 1298.0 | 310.5  | 128.6  | 131.0  | 165.0  | 126.1  | 121.3  | 123.7  |
| 60°   | 8564.3  | 7555.0  | 4318.6 | 856.4  | 194.1  | 101.9  | 94.6   | 167.4  | 111.6  | 109.2  | 116.4  |
| 62.5° | 7807.4  | 6208.5  | 3275.3 | 531.3  | 133.4  | 77.7   | 65.5   | 135.9  | 97.0   | 97.0   | 106.7  |
| 65°   | 5640.8  | 4170.6  | 1904.5 | 279.0  | 94.6   | 60.7   | 48.5   | 77.7   | 80.1   | 82.5   | 87.3   |
| 67.5° | 3493.7  | 2105.9  | 803.0  | 135.9  | 63.1   | 41.3   | 31.6   | 48.5   | 53.4   | 53.4   | 58.3   |
| 70°   | 1725.0  | 839.5   | 266.8  | 77.7   | 48.5   | 34.0   | 21.8   | 26.7   | 26.7   | 24.3   | 26.7   |
| 72.5° | 533.8   | 252.3   | 68.0   | 48.5   | 34.0   | 21.8   | 12.1   | 9.7    | 4.9    | 0.0    | 2.4    |
| 75°   | 60.7    | 48.5    | 43.7   | 34.0   | 21.8   | 9.7    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 36.4    | 41.3    | 41.3   | 34.0   | 21.8   | 7.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 29.1    | 31.6    | 34.0   | 31.6   | 19.4   | 9.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 36.4    | 41.3    | 46.1   | 41.3   | 26.7   | 12.1   | 4.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 7.3    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0     | 0.0     | 0.0    | 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°    | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 |
| 2.5°  | 5318.1 | 5264.7 | 5340.0 | 5228.3 | 5225.9 | 5228.3 | 5196.8 | 5167.7 | 5213.8 | 5337.6 | 5349.7 |
| 5°    | 4058.9 | 4173.0 | 4209.3 | 4328.3 | 4262.7 | 4165.7 | 4185.1 | 4119.6 | 4279.7 | 4350.1 | 4294.3 |
| 7.5°  | 2955.0 | 2947.8 | 3192.8 | 3207.4 | 3238.9 | 3241.3 | 3236.5 | 3107.9 | 2976.9 | 3006.0 | 3093.3 |
| 10°   | 2292.7 | 2169.0 | 2287.8 | 2275.7 | 2353.4 | 2331.5 | 2363.1 | 2224.8 | 2270.9 | 2270.9 | 2326.7 |
| 12.5° | 1868.2 | 1737.1 | 1715.3 | 1683.8 | 1715.3 | 1727.5 | 1739.5 | 1712.9 | 1790.5 | 1826.9 | 1865.7 |
| 15°   | 1426.5 | 1353.8 | 1334.4 | 1273.7 | 1283.4 | 1317.4 | 1346.5 | 1358.7 | 1334.4 | 1390.2 | 1395.1 |
| 17.5° | 1036.0 | 1033.6 | 1045.7 | 1043.3 | 1033.6 | 1026.3 | 1023.9 | 992.3  | 982.6  | 987.4  | 1006.9 |
| 20°   | 786.1  | 805.5  | 846.7  | 888.0  | 909.8  | 883.1  | 846.7  | 793.3  | 771.5  | 776.3  | 778.8  |
| 22.5° | 672.0  | 701.2  | 756.9  | 803.0  | 824.9  | 776.3  | 710.9  | 664.8  | 655.1  | 652.6  | 650.2  |
| 25°   | 608.9  | 642.9  | 684.2  | 698.7  | 696.3  | 667.2  | 618.6  | 599.2  | 594.4  | 589.5  | 567.8  |
| 27.5° | 575.0  | 587.1  | 594.4  | 611.4  | 618.6  | 599.2  | 587.1  | 558.0  | 553.2  | 553.2  | 538.6  |
| 30°   | 555.6  | 548.3  | 558.0  | 545.9  | 555.6  | 541.1  | 543.5  | 543.5  | 531.3  | 536.2  | 536.2  |
| 32.5° | 516.8  | 519.2  | 519.2  | 494.9  | 502.2  | 485.2  | 502.2  | 516.8  | 519.2  | 521.6  | 541.1  |
| 35°   | 378.5  | 422.1  | 444.0  | 444.0  | 451.2  | 439.1  | 436.7  | 419.7  | 397.9  | 376.1  | 366.4  |
| 37.5° | 332.4  | 349.4  | 378.5  | 395.5  | 407.6  | 397.9  | 376.1  | 349.4  | 337.2  | 327.5  | 317.8  |
| 40°   | 296.0  | 310.5  | 330.0  | 349.4  | 373.6  | 361.5  | 327.5  | 315.4  | 300.8  | 300.8  | 291.1  |
| 42.5° | 266.8  | 274.1  | 286.3  | 315.4  | 342.1  | 317.8  | 293.5  | 283.8  | 276.6  | 274.1  | 271.7  |
| 45°   | 240.2  | 242.7  | 254.7  | 279.0  | 310.5  | 286.3  | 262.0  | 249.9  | 252.3  | 254.7  | 252.3  |
| 47.5° | 216.0  | 220.8  | 228.1  | 257.1  | 276.6  | 264.4  | 237.8  | 230.5  | 230.5  | 230.5  | 232.9  |
| 50°   | 186.8  | 199.0  | 213.5  | 237.8  | 252.3  | 245.1  | 223.2  | 213.5  | 208.7  | 208.7  | 211.1  |
| 52.5° | 167.4  | 177.1  | 196.5  | 225.7  | 245.1  | 232.9  | 211.1  | 196.5  | 186.8  | 184.4  | 189.3  |
| 55°   | 145.6  | 162.6  | 194.1  | 216.0  | 242.7  | 230.5  | 206.2  | 189.3  | 172.3  | 169.8  | 169.8  |
| 57.5° | 131.0  | 157.7  | 186.8  | 213.5  | 235.4  | 225.7  | 206.2  | 184.4  | 162.6  | 160.1  | 160.1  |
| 60°   | 123.7  | 152.8  | 182.0  | 206.2  | 235.4  | 220.8  | 203.8  | 179.5  | 155.3  | 155.3  | 152.8  |
| 62.5° | 116.4  | 143.1  | 172.3  | 196.5  | 225.7  | 213.5  | 196.5  | 172.3  | 148.0  | 148.0  | 143.1  |
| 65°   | 97.0   | 123.7  | 143.1  | 165.0  | 196.5  | 184.4  | 167.4  | 150.4  | 131.0  | 126.1  | 128.6  |
| 67.5° | 68.0   | 84.9   | 104.3  | 126.1  | 145.6  | 140.7  | 133.4  | 121.3  | 104.3  | 101.9  | 99.4   |
| 70°   | 34.0   | 46.1   | 63.1   | 84.9   | 101.9  | 97.0   | 92.2   | 82.5   | 72.8   | 70.4   | 70.4   |
| 72.5° | 4.9    | 14.6   | 26.7   | 38.8   | 53.4   | 55.8   | 53.4   | 51.0   | 48.5   | 46.1   | 48.5   |
| 75°   | 0.0    | 0.0    | 0.0    | 9.7    | 21.8   | 26.7   | 31.6   | 36.4   | 36.4   | 31.6   | 38.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 2.4    | 12.1   | 24.3   | 31.6   | 38.8   | 34.0   | 46.1   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 2.4    | 14.6   | 24.3   | 34.0   | 38.8   | 34.0   | 48.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 2.4    | 17.0   | 24.3   | 31.6   | 36.4   | 34.0   | 43.7   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 7.3    | 14.6   | 9.7    | 4.9    | 2.4    | 2.4    | 7.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6 | 6254.6  | 6254.6  | 6254.6  |
| 2.5°  | 5417.6 | 5589.8 | 5774.2 | 5844.6 | 6062.9 | 6227.9 | 6339.6 | 6579.7  | 6616.1  | 6618.5  |
| 5°    | 4352.5 | 4439.8 | 4755.2 | 4903.2 | 5228.3 | 5480.7 | 5750.0 | 6138.2  | 6397.7  | 6417.2  |
| 7.5°  | 3093.3 | 3336.0 | 3469.4 | 3855.2 | 4255.4 | 4650.9 | 5051.2 | 5502.5  | 5803.4  | 5810.6  |
| 10°   | 2489.2 | 2646.9 | 2884.7 | 3173.4 | 3510.7 | 3913.4 | 4447.1 | 4971.2  | 5276.9  | 5352.1  |
| 12.5° | 2004.0 | 2280.6 | 2552.3 | 2850.7 | 3107.9 | 3411.1 | 3986.2 | 4684.9  | 4937.2  | 5087.6  |
| 15°   | 1543.1 | 1795.3 | 2115.6 | 2465.0 | 2756.1 | 3161.3 | 3816.3 | 4614.5  | 5039.1  | 5090.0  |
| 17.5° | 1137.9 | 1363.5 | 1659.5 | 1989.4 | 2426.1 | 3001.2 | 3845.5 | 4971.2  | 5371.5  | 5456.4  |
| 20°   | 817.6  | 948.6  | 1181.5 | 1564.9 | 2120.4 | 2814.3 | 3874.6 | 5332.7  | 5941.6  | 6087.2  |
| 22.5° | 647.8  | 701.2  | 854.0  | 1193.7 | 1778.3 | 2617.8 | 4080.8 | 6024.1  | 6725.3  | 6936.4  |
| 25°   | 562.9  | 591.9  | 664.8  | 941.3  | 1562.5 | 2598.4 | 4410.7 | 6853.8  | 7768.5  | 7921.4  |
| 27.5° | 543.5  | 548.3  | 611.4  | 863.7  | 1446.0 | 2469.8 | 4536.9 | 7443.4  | 8418.7  | 8574.0  |
| 30°   | 572.6  | 650.2  | 655.1  | 730.3  | 1230.1 | 2215.1 | 4602.4 | 8013.5  | 8969.5  | 9083.5  |
| 32.5° | 494.9  | 470.7  | 487.7  | 565.3  | 1082.0 | 2067.0 | 4726.1 | 8510.9  | 9597.9  | 9677.9  |
| 35°   | 344.5  | 361.5  | 400.3  | 490.1  | 946.2  | 1911.8 | 4757.7 | 9059.2  | 10194.7 | 10277.2 |
| 37.5° | 317.8  | 327.5  | 359.1  | 417.3  | 832.2  | 1824.5 | 4714.0 | 9459.6  | 10813.3 | 10927.4 |
| 40°   | 296.0  | 308.1  | 325.1  | 378.5  | 747.2  | 1727.5 | 4653.4 | 9821.0  | 11191.8 | 11473.2 |
| 42.5° | 279.0  | 288.7  | 303.3  | 361.5  | 674.5  | 1630.4 | 4568.4 | 10330.5 | 11531.5 | 11776.6 |
| 45°   | 259.6  | 274.1  | 291.1  | 351.8  | 633.2  | 1564.9 | 4505.4 | 10299.0 | 11728.0 | 11859.0 |
| 47.5° | 240.2  | 264.4  | 283.8  | 327.5  | 621.1  | 1533.3 | 4532.1 | 10180.1 | 11567.9 | 11478.1 |
| 50°   | 220.8  | 252.3  | 286.3  | 271.7  | 591.9  | 1470.2 | 4563.6 | 10342.6 | 11187.0 | 11170.0 |
| 52.5° | 203.8  | 240.2  | 266.8  | 223.2  | 526.5  | 1409.6 | 4869.2 | 10556.2 | 11456.3 | 11230.6 |
| 55°   | 179.5  | 216.0  | 213.5  | 179.5  | 427.0  | 1363.5 | 5109.5 | 10561.0 | 11274.3 | 11359.2 |
| 57.5° | 162.6  | 191.7  | 167.4  | 150.4  | 315.4  | 1140.3 | 4718.8 | 8855.4  | 9651.3  | 9801.7  |
| 60°   | 150.4  | 186.8  | 126.1  | 118.9  | 206.2  | 822.5  | 4119.6 | 6858.7  | 7671.5  | 7955.4  |
| 62.5° | 138.3  | 177.1  | 99.4   | 97.0   | 143.1  | 584.7  | 3386.9 | 5740.3  | 6611.3  | 6997.0  |
| 65°   | 121.3  | 126.1  | 80.1   | 75.2   | 101.9  | 315.4  | 2062.3 | 3952.2  | 4942.1  | 5085.2  |
| 67.5° | 99.4   | 97.0   | 65.5   | 60.7   | 68.0   | 152.8  | 909.8  | 1979.7  | 2865.3  | 3105.5  |
| 70°   | 80.1   | 80.1   | 55.8   | 48.5   | 48.5   | 70.4   | 237.8  | 788.5   | 1295.6  | 1433.8  |
| 72.5° | 58.3   | 60.7   | 43.7   | 38.8   | 36.4   | 34.0   | 38.8   | 157.7   | 339.7   | 434.3   |
| 75°   | 51.0   | 53.4   | 43.7   | 34.0   | 26.7   | 21.8   | 17.0   | 14.6    | 19.4    | 31.6    |
| 77.5° | 55.8   | 55.8   | 46.1   | 31.6   | 24.3   | 17.0   | 9.7    | 4.9     | 4.9     | 2.4     |
| 80°   | 70.4   | 72.8   | 60.7   | 41.3   | 29.1   | 19.4   | 12.1   | 4.9     | 2.4     | 2.4     |
| 82.5° | 75.2   | 82.5   | 68.0   | 51.0   | 36.4   | 21.8   | 12.1   | 2.4     | 0.0     | 0.0     |
| 85°   | 19.4   | 31.6   | 53.4   | 46.1   | 36.4   | 21.8   | 12.1   | 2.4     | 0.0     | 0.0     |
| 87.5° | 0.0    | 2.4    | 7.3    | 7.3    | 9.7    | 9.7    | 7.3    | 2.4     | 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     |

(END OF REPORT)