

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: P528209

Luminaire Tested: **GALN-SA3B-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528209  
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-SA3B-735-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 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: 8748 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

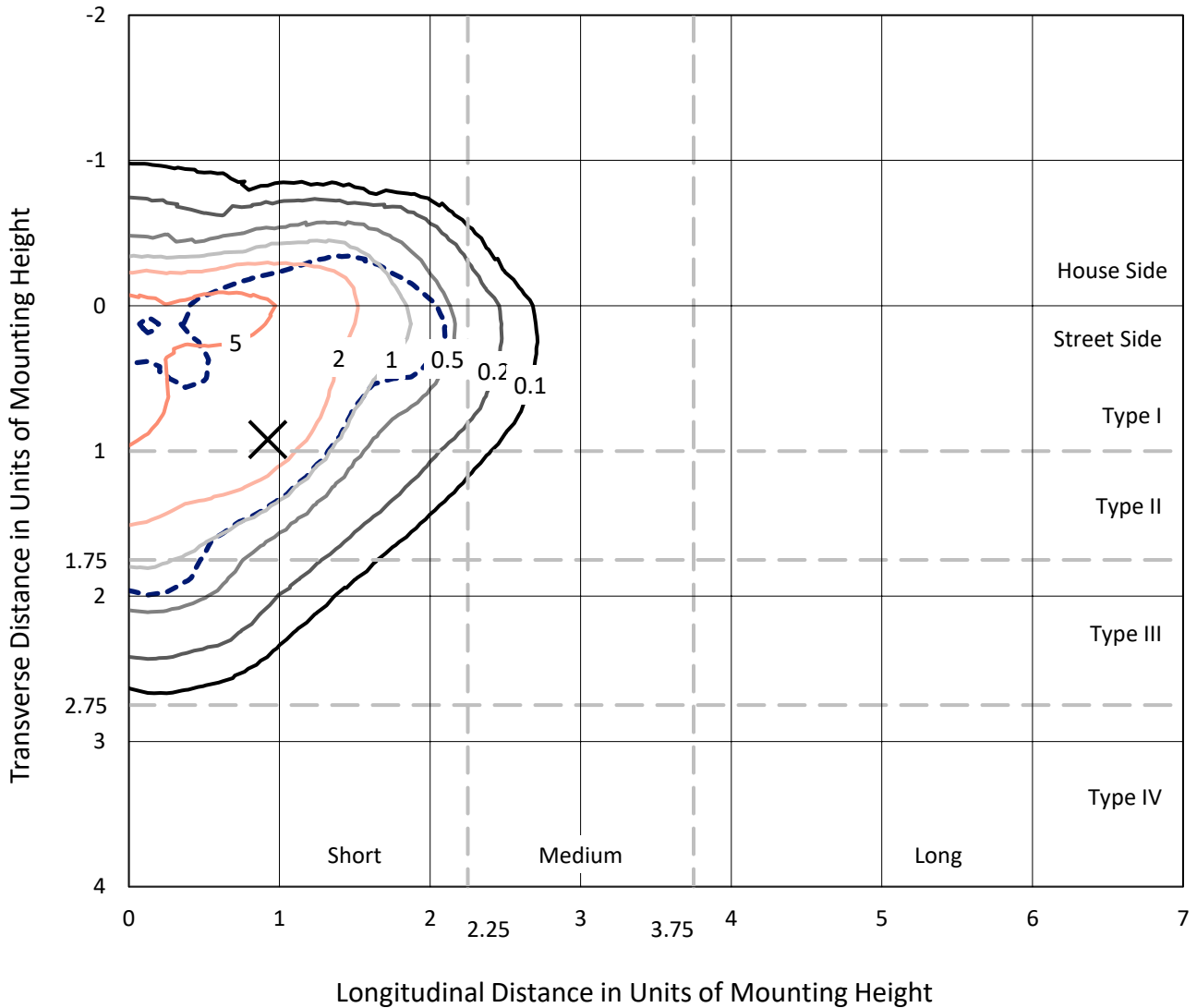
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

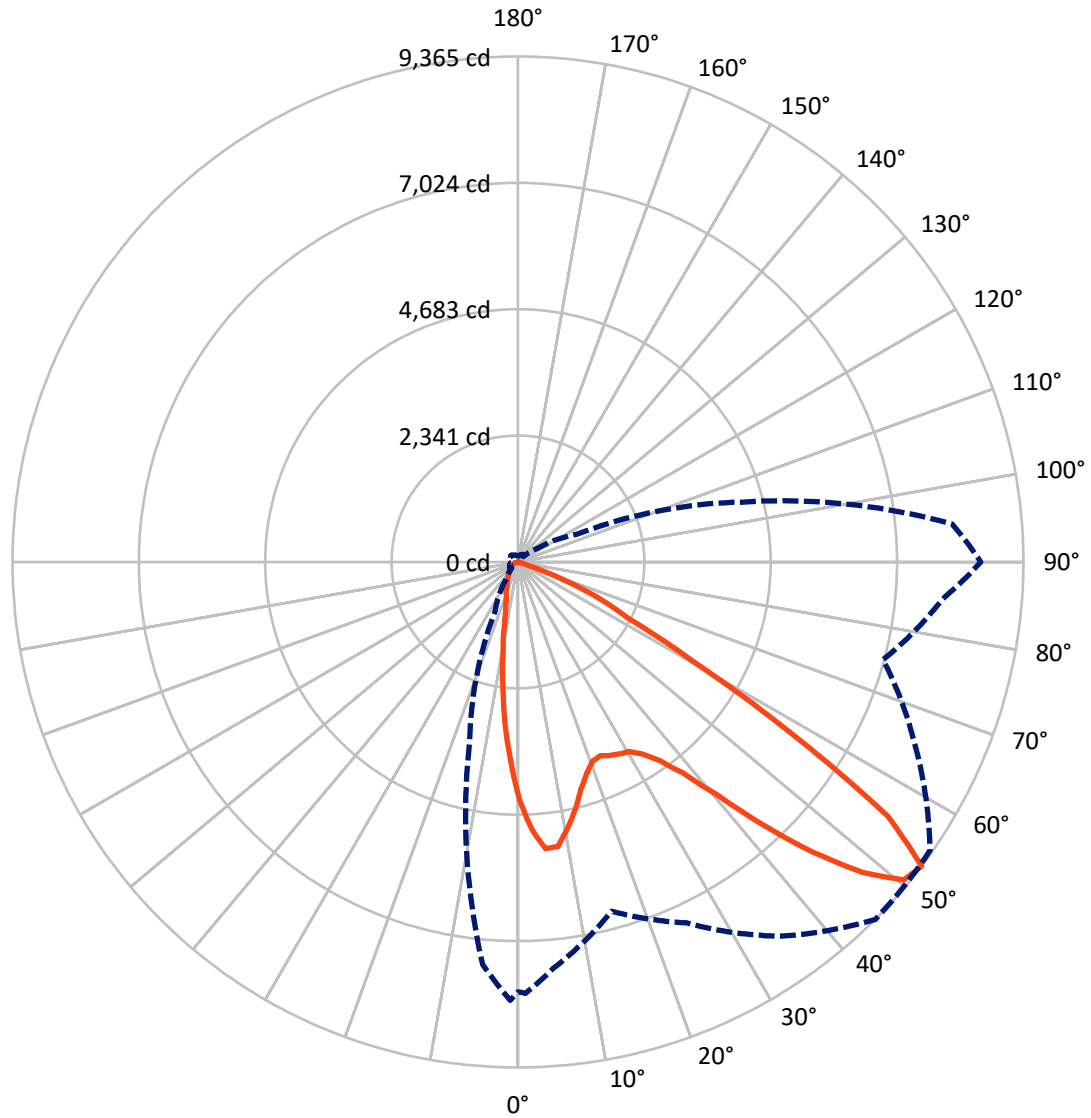
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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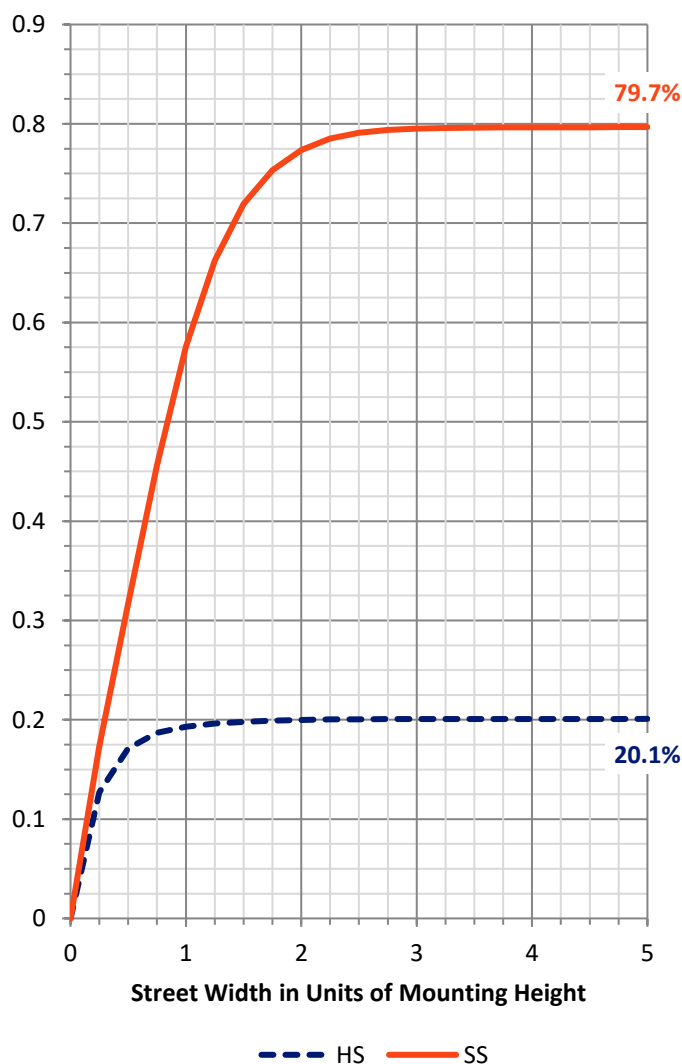
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1775.4   | 0.0    | 1775.4 |
|                    | % Fixture | 20.3     | 0.0    | 20.3   |
| <b>Street Side</b> | Lumens    | 6972.6   | 0.0    | 6972.6 |
|                    | % Fixture | 79.7     | 0.0    | 79.7   |
| <b>Total</b>       | Lumens    | 8748.0   | 0.0    | 8748.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 323.5  | 3.7       |
| 10°-20°   | 638.2  | 7.3       |
| 20°-30°   | 971.3  | 11.1      |
| 30°-40°   | 1451.7 | 16.6      |
| 40°-50°   | 2067.3 | 23.6      |
| 50°-60°   | 2222.3 | 25.4      |
| 60°-70°   | 984.8  | 11.3      |
| 70°-80°   | 79.7   | 0.9       |
| 80°-90°   | 9.3    | 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°    | 8748.0 | 100.0     |
| 0°-180°   | 8748.0 | 100.0     |

**Coefficient of Utilization**



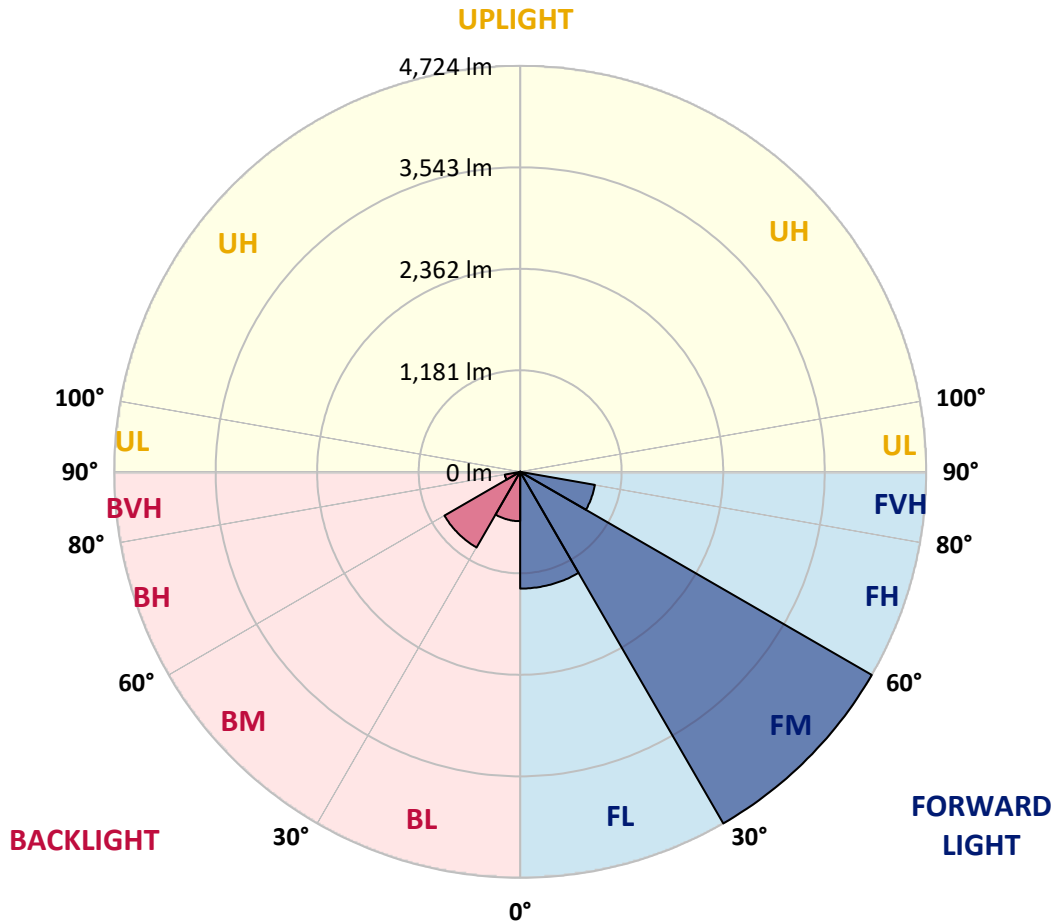
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1358.7 | 15.5      |                         |      |         |
| FM (30°-60°)   | 4724.2 | 54.0      |                         |      |         |
| FH (60°-80°)   | 882.8  | 10.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 6.9    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 574.2  | 6.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1017.1 | 11.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 181.7  | 2.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.4    | 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°    | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 |
| 2.5°  | 4693.7 | 4707.5 | 4783.2 | 4877.8 | 4927.7 | 5041.3 | 4962.1 | 4982.8 | 4939.8 | 4788.4 | 4669.6 |
| 5°    | 4550.9 | 4549.2 | 4645.6 | 4879.6 | 5101.5 | 5326.9 | 5333.8 | 5213.3 | 5001.7 | 4769.4 | 4437.4 |
| 7.5°  | 4120.8 | 4187.9 | 4287.7 | 4661.0 | 5072.3 | 5240.9 | 5321.7 | 5180.7 | 4855.5 | 4523.4 | 4163.8 |
| 10°   | 3795.6 | 3830.0 | 3998.6 | 4449.4 | 4750.5 | 4975.9 | 5025.8 | 4944.9 | 4695.4 | 4280.8 | 3878.2 |
| 12.5° | 3608.0 | 3625.3 | 3823.1 | 4201.6 | 4520.0 | 4686.8 | 4710.9 | 4748.8 | 4569.8 | 4181.0 | 3697.5 |
| 15°   | 3609.8 | 3623.5 | 3890.2 | 4206.8 | 4332.4 | 4287.7 | 4366.8 | 4365.1 | 4442.5 | 4162.1 | 3848.9 |
| 17.5° | 3869.6 | 3885.1 | 4125.9 | 4282.5 | 4227.5 | 4122.5 | 4117.3 | 4196.5 | 4359.9 | 4397.8 | 4077.8 |
| 20°   | 4316.9 | 4353.1 | 4530.3 | 4521.7 | 4212.0 | 4000.3 | 3941.8 | 4002.1 | 4382.3 | 4597.4 | 4538.9 |
| 22.5° | 4919.1 | 4969.0 | 5092.9 | 4855.5 | 4282.5 | 3917.7 | 3898.8 | 4015.8 | 4530.3 | 5043.0 | 5061.9 |
| 25°   | 5617.7 | 5702.0 | 5762.2 | 5457.7 | 4533.7 | 4060.6 | 3971.1 | 4172.4 | 4729.9 | 5526.5 | 5727.8 |
| 27.5° | 6080.5 | 6168.3 | 6154.5 | 5719.2 | 4702.3 | 4098.4 | 4022.7 | 4210.2 | 4903.6 | 5641.8 | 6075.4 |
| 30°   | 6441.8 | 6495.2 | 6591.5 | 5860.3 | 4870.9 | 4205.1 | 4076.0 | 4370.3 | 4960.4 | 5841.4 | 6495.2 |
| 32.5° | 6863.4 | 6899.5 | 6906.4 | 6109.8 | 5130.8 | 4339.3 | 4241.2 | 4569.8 | 5211.6 | 6032.3 | 6866.8 |
| 35°   | 7288.4 | 7341.7 | 7229.9 | 6417.7 | 5290.8 | 4588.8 | 4516.5 | 4915.7 | 5412.9 | 6230.2 | 7276.3 |
| 37.5° | 7749.5 | 7777.0 | 7518.9 | 6545.1 | 5519.6 | 4994.8 | 4955.3 | 5289.0 | 5762.2 | 6588.1 | 7730.5 |
| 40°   | 8136.6 | 8162.4 | 7826.9 | 6701.6 | 5760.5 | 5562.6 | 5664.1 | 6001.4 | 6237.1 | 6820.4 | 7957.7 |
| 42.5° | 8351.7 | 8411.9 | 7930.1 | 6615.6 | 6244.0 | 6206.1 | 6656.9 | 6775.6 | 6787.7 | 6885.7 | 8160.7 |
| 45°   | 8410.2 | 8382.6 | 7759.8 | 6686.2 | 6667.2 | 7264.3 | 7673.8 | 7830.3 | 7334.8 | 7006.2 | 8212.3 |
| 47.5° | 8140.0 | 8176.2 | 7508.6 | 6624.2 | 7223.0 | 8066.1 | 8596.0 | 8886.8 | 7742.6 | 6901.2 | 8085.0 |
| 50°   | 7921.5 | 7875.1 | 7427.7 | 6579.5 | 7372.7 | 8444.6 | 9261.9 | 9327.2 | 8117.7 | 7030.3 | 7945.6 |
| 52.5° | 7964.5 | 7993.8 | 7556.8 | 6698.2 | 7376.1 | 8467.0 | 9365.1 | 9320.4 | 8129.7 | 7001.0 | 7895.7 |
| 55°   | 8055.7 | 7926.7 | 7501.7 | 6436.7 | 6882.3 | 7842.4 | 8312.1 | 8243.3 | 7503.4 | 6689.6 | 7773.6 |
| 57.5° | 6951.1 | 7150.7 | 6897.8 | 5746.7 | 5648.6 | 5908.5 | 5899.9 | 6111.5 | 5597.0 | 5757.0 | 7076.7 |
| 60°   | 5641.8 | 5676.2 | 5770.8 | 4915.7 | 3909.1 | 3819.7 | 3695.8 | 3561.6 | 3766.3 | 4922.6 | 6436.7 |
| 62.5° | 4962.1 | 4920.8 | 5258.1 | 4471.8 | 2759.8 | 2310.7 | 2290.1 | 2372.7 | 2906.1 | 4695.4 | 6037.5 |
| 65°   | 3606.3 | 3657.9 | 3902.3 | 3470.4 | 2071.6 | 1763.6 | 1732.6 | 1976.9 | 2352.0 | 3762.9 | 4607.7 |
| 67.5° | 2202.3 | 2302.1 | 2324.5 | 2140.4 | 1405.7 | 1116.7 | 1071.9 | 1293.9 | 1698.2 | 2434.6 | 2701.3 |
| 70°   | 1016.9 | 1137.3 | 1250.9 | 1168.3 | 813.8  | 459.4  | 433.6  | 543.7  | 856.8  | 1400.5 | 1433.2 |
| 72.5° | 308.0  | 309.7  | 433.6  | 452.5  | 263.2  | 103.2  | 91.2   | 120.4  | 290.8  | 462.8  | 486.9  |
| 75°   | 22.4   | 24.1   | 58.5   | 67.1   | 49.9   | 25.8   | 27.5   | 32.7   | 61.9   | 103.2  | 77.4   |
| 77.5° | 1.7    | 1.7    | 1.7    | 8.6    | 15.5   | 17.2   | 22.4   | 25.8   | 32.7   | 37.9   | 34.4   |
| 80°   | 1.7    | 0.0    | 1.7    | 6.9    | 12.0   | 17.2   | 20.6   | 24.1   | 25.8   | 29.2   | 25.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 5.2    | 12.0   | 17.2   | 18.9   | 25.8   | 29.2   | 34.4   | 29.2   |
| 85°   | 0.0    | 0.0    | 0.0    | 5.2    | 12.0   | 18.9   | 17.2   | 8.6    | 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°    | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 |
| 2.5°  | 4690.3 | 4623.2 | 4470.1 | 4392.6 | 4210.2 | 4184.4 | 4005.5 | 3976.2 | 3916.0 | 3883.3 | 3804.2 |
| 5°    | 4291.1 | 4210.2 | 3960.8 | 3750.9 | 3506.5 | 3336.2 | 3205.4 | 3086.7 | 3017.9 | 2954.2 | 2983.5 |
| 7.5°  | 3965.9 | 3730.2 | 3453.2 | 3102.2 | 2820.0 | 2637.6 | 2438.1 | 2274.6 | 2178.2 | 2112.9 | 2128.4 |
| 10°   | 3625.3 | 3472.1 | 3086.7 | 2692.7 | 2352.0 | 2223.0 | 2066.4 | 1940.8 | 1804.9 | 1687.9 | 1632.8 |
| 12.5° | 3518.6 | 3291.5 | 2808.0 | 2407.1 | 2149.0 | 2023.4 | 1844.5 | 1699.9 | 1526.2 | 1383.3 | 1333.4 |
| 15°   | 3537.5 | 3319.0 | 2732.3 | 2303.9 | 1999.3 | 1782.5 | 1569.2 | 1390.2 | 1199.2 | 1099.4 | 1047.8 |
| 17.5° | 3845.5 | 3467.0 | 2782.2 | 2195.5 | 1791.1 | 1490.0 | 1226.8 | 999.7  | 856.8  | 753.6  | 731.2  |
| 20°   | 4224.0 | 3787.0 | 2888.8 | 2116.3 | 1620.8 | 1185.5 | 896.4  | 700.3  | 581.6  | 564.3  | 559.2  |
| 22.5° | 4778.0 | 4310.0 | 3117.7 | 2063.0 | 1412.6 | 923.9  | 614.2  | 509.3  | 476.6  | 473.2  | 474.9  |
| 25°   | 5552.3 | 4965.6 | 3367.2 | 2018.2 | 1256.0 | 712.3  | 502.4  | 431.9  | 421.5  | 416.4  | 425.0  |
| 27.5° | 5887.8 | 5361.3 | 3499.6 | 1921.9 | 1113.2 | 641.8  | 495.5  | 428.4  | 399.2  | 390.6  | 395.7  |
| 30°   | 6302.5 | 5624.6 | 3707.8 | 1756.7 | 903.3  | 528.2  | 462.8  | 466.3  | 452.5  | 409.5  | 395.7  |
| 32.5° | 6853.1 | 5953.2 | 3812.8 | 1639.7 | 806.9  | 437.0  | 339.0  | 311.4  | 347.6  | 354.4  | 366.5  |
| 35°   | 7205.8 | 6287.0 | 3866.1 | 1570.9 | 757.1  | 373.4  | 287.3  | 261.5  | 252.9  | 254.6  | 261.5  |
| 37.5° | 7861.3 | 6737.8 | 3933.2 | 1498.6 | 719.2  | 325.2  | 259.8  | 235.7  | 223.7  | 223.7  | 230.6  |
| 40°   | 8253.6 | 7095.7 | 4024.4 | 1459.0 | 681.3  | 295.9  | 235.7  | 215.1  | 204.7  | 204.7  | 208.2  |
| 42.5° | 8351.7 | 7272.9 | 3993.5 | 1445.3 | 638.3  | 289.1  | 215.1  | 199.6  | 187.5  | 185.8  | 184.1  |
| 45°   | 8527.2 | 7543.0 | 3998.6 | 1429.8 | 593.6  | 263.2  | 203.0  | 185.8  | 168.6  | 166.9  | 165.2  |
| 47.5° | 8719.9 | 7737.4 | 4008.9 | 1369.6 | 550.6  | 220.2  | 211.6  | 172.1  | 151.4  | 148.0  | 148.0  |
| 50°   | 8554.7 | 7892.3 | 4098.4 | 1309.4 | 495.5  | 178.9  | 208.2  | 161.7  | 134.2  | 129.0  | 130.8  |
| 52.5° | 8575.3 | 8074.7 | 4287.7 | 1225.0 | 426.7  | 142.8  | 168.6  | 153.1  | 122.2  | 113.6  | 115.3  |
| 55°   | 8245.0 | 7882.0 | 4313.5 | 1135.6 | 333.8  | 110.1  | 129.0  | 134.2  | 103.2  | 99.8   | 99.8   |
| 57.5° | 7097.4 | 6674.1 | 3805.9 | 920.5  | 220.2  | 91.2   | 92.9   | 117.0  | 89.5   | 86.0   | 87.7   |
| 60°   | 6073.6 | 5357.9 | 3062.6 | 607.4  | 137.6  | 72.3   | 67.1   | 118.7  | 79.1   | 77.4   | 82.6   |
| 62.5° | 5536.8 | 4403.0 | 2322.8 | 376.8  | 94.6   | 55.1   | 46.5   | 96.4   | 68.8   | 68.8   | 75.7   |
| 65°   | 4000.3 | 2957.7 | 1350.7 | 197.9  | 67.1   | 43.0   | 34.4   | 55.1   | 56.8   | 58.5   | 61.9   |
| 67.5° | 2477.6 | 1493.5 | 569.5  | 96.4   | 44.7   | 29.2   | 22.4   | 34.4   | 37.9   | 37.9   | 41.3   |
| 70°   | 1223.3 | 595.3  | 189.3  | 55.1   | 34.4   | 24.1   | 15.5   | 18.9   | 18.9   | 17.2   | 18.9   |
| 72.5° | 378.5  | 178.9  | 48.2   | 34.4   | 24.1   | 15.5   | 8.6    | 6.9    | 3.4    | 0.0    | 1.7    |
| 75°   | 43.0   | 34.4   | 31.0   | 24.1   | 15.5   | 6.9    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 25.8   | 29.2   | 29.2   | 24.1   | 15.5   | 5.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 20.6   | 22.4   | 24.1   | 22.4   | 13.8   | 6.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 25.8   | 29.2   | 32.7   | 29.2   | 18.9   | 8.6    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.2    | 1.7    | 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°    | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 |
| 2.5°  | 3771.5 | 3733.6 | 3787.0 | 3707.8 | 3706.1 | 3707.8 | 3685.5 | 3664.8 | 3697.5 | 3785.3 | 3793.9 |
| 5°    | 2878.5 | 2959.4 | 2985.2 | 3069.5 | 3023.1 | 2954.2 | 2968.0 | 2921.5 | 3035.1 | 3085.0 | 3045.4 |
| 7.5°  | 2095.7 | 2090.5 | 2264.3 | 2274.6 | 2297.0 | 2298.7 | 2295.2 | 2204.1 | 2111.1 | 2131.8 | 2193.7 |
| 10°   | 1625.9 | 1538.2 | 1622.5 | 1613.9 | 1669.0 | 1653.5 | 1675.8 | 1577.8 | 1610.5 | 1610.5 | 1650.0 |
| 12.5° | 1324.8 | 1231.9 | 1216.4 | 1194.1 | 1216.4 | 1225.0 | 1233.7 | 1214.7 | 1269.8 | 1295.6 | 1323.1 |
| 15°   | 1011.7 | 960.1  | 946.3  | 903.3  | 910.2  | 934.3  | 954.9  | 963.5  | 946.3  | 985.9  | 989.3  |
| 17.5° | 734.7  | 733.0  | 741.6  | 739.8  | 733.0  | 727.8  | 726.1  | 703.7  | 696.8  | 700.3  | 714.0  |
| 20°   | 557.5  | 571.2  | 600.5  | 629.7  | 645.2  | 626.3  | 600.5  | 562.6  | 547.1  | 550.6  | 552.3  |
| 22.5° | 476.6  | 497.2  | 536.8  | 569.5  | 585.0  | 550.6  | 504.1  | 471.4  | 464.6  | 462.8  | 461.1  |
| 25°   | 431.9  | 456.0  | 485.2  | 495.5  | 493.8  | 473.2  | 438.7  | 425.0  | 421.5  | 418.1  | 402.6  |
| 27.5° | 407.8  | 416.4  | 421.5  | 433.6  | 438.7  | 425.0  | 416.4  | 395.7  | 392.3  | 392.3  | 382.0  |
| 30°   | 394.0  | 388.8  | 395.7  | 387.1  | 394.0  | 383.7  | 385.4  | 385.4  | 376.8  | 380.2  | 380.2  |
| 32.5° | 366.5  | 368.2  | 368.2  | 351.0  | 356.2  | 344.1  | 356.2  | 366.5  | 368.2  | 369.9  | 383.7  |
| 35°   | 268.4  | 299.4  | 314.9  | 314.9  | 320.0  | 311.4  | 309.7  | 297.7  | 282.2  | 266.7  | 259.8  |
| 37.5° | 235.7  | 247.8  | 268.4  | 280.5  | 289.1  | 282.2  | 266.7  | 247.8  | 239.2  | 232.3  | 225.4  |
| 40°   | 209.9  | 220.2  | 234.0  | 247.8  | 265.0  | 256.4  | 232.3  | 223.7  | 213.4  | 213.4  | 206.5  |
| 42.5° | 189.3  | 194.4  | 203.0  | 223.7  | 242.6  | 225.4  | 208.2  | 201.3  | 196.1  | 194.4  | 192.7  |
| 45°   | 170.3  | 172.1  | 180.7  | 197.9  | 220.2  | 203.0  | 185.8  | 177.2  | 178.9  | 180.7  | 178.9  |
| 47.5° | 153.1  | 156.6  | 161.7  | 182.4  | 196.1  | 187.5  | 168.6  | 163.5  | 163.5  | 163.5  | 165.2  |
| 50°   | 132.5  | 141.1  | 151.4  | 168.6  | 178.9  | 173.8  | 158.3  | 151.4  | 148.0  | 148.0  | 149.7  |
| 52.5° | 118.7  | 125.6  | 139.4  | 160.0  | 173.8  | 165.2  | 149.7  | 139.4  | 132.5  | 130.8  | 134.2  |
| 55°   | 103.2  | 115.3  | 137.6  | 153.1  | 172.1  | 163.5  | 146.2  | 134.2  | 122.2  | 120.4  | 120.4  |
| 57.5° | 92.9   | 111.8  | 132.5  | 151.4  | 166.9  | 160.0  | 146.2  | 130.8  | 115.3  | 113.6  | 113.6  |
| 60°   | 87.7   | 108.4  | 129.0  | 146.2  | 166.9  | 156.6  | 144.5  | 127.3  | 110.1  | 110.1  | 108.4  |
| 62.5° | 82.6   | 101.5  | 122.2  | 139.4  | 160.0  | 151.4  | 139.4  | 122.2  | 105.0  | 105.0  | 101.5  |
| 65°   | 68.8   | 87.7   | 101.5  | 117.0  | 139.4  | 130.8  | 118.7  | 106.7  | 92.9   | 89.5   | 91.2   |
| 67.5° | 48.2   | 60.2   | 74.0   | 89.5   | 103.2  | 99.8   | 94.6   | 86.0   | 74.0   | 72.3   | 70.5   |
| 70°   | 24.1   | 32.7   | 44.7   | 60.2   | 72.3   | 68.8   | 65.4   | 58.5   | 51.6   | 49.9   | 49.9   |
| 72.5° | 3.4    | 10.3   | 18.9   | 27.5   | 37.9   | 39.6   | 37.9   | 36.1   | 34.4   | 32.7   | 34.4   |
| 75°   | 0.0    | 0.0    | 0.0    | 6.9    | 15.5   | 18.9   | 22.4   | 25.8   | 25.8   | 22.4   | 27.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 8.6    | 17.2   | 22.4   | 27.5   | 24.1   | 32.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 10.3   | 17.2   | 24.1   | 27.5   | 24.1   | 34.4   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 12.0   | 17.2   | 22.4   | 25.8   | 24.1   | 31.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 5.2    | 10.3   | 6.9    | 3.4    | 1.7    | 1.7    | 5.2    |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 | 4435.6 |
| 2.5°  | 3842.0 | 3964.2 | 4095.0 | 4144.9 | 4299.7 | 4416.7 | 4495.9 | 4666.2 | 4692.0 | 4693.7 |
| 5°    | 3086.7 | 3148.7 | 3372.3 | 3477.3 | 3707.8 | 3886.8 | 4077.8 | 4353.1 | 4537.2 | 4550.9 |
| 7.5°  | 2193.7 | 2365.8 | 2460.4 | 2734.0 | 3017.9 | 3298.3 | 3582.2 | 3902.3 | 4115.6 | 4120.8 |
| 10°   | 1765.3 | 1877.1 | 2045.8 | 2250.5 | 2489.7 | 2775.3 | 3153.8 | 3525.5 | 3742.3 | 3795.6 |
| 12.5° | 1421.2 | 1617.3 | 1810.0 | 2021.7 | 2204.1 | 2419.1 | 2826.9 | 3322.4 | 3501.4 | 3608.0 |
| 15°   | 1094.3 | 1273.2 | 1500.3 | 1748.1 | 1954.6 | 2241.9 | 2706.5 | 3272.5 | 3573.6 | 3609.8 |
| 17.5° | 806.9  | 967.0  | 1176.9 | 1410.9 | 1720.6 | 2128.4 | 2727.1 | 3525.5 | 3809.4 | 3869.6 |
| 20°   | 579.8  | 672.7  | 837.9  | 1109.8 | 1503.8 | 1995.9 | 2747.8 | 3781.8 | 4213.7 | 4316.9 |
| 22.5° | 459.4  | 497.2  | 605.6  | 846.5  | 1261.2 | 1856.5 | 2894.0 | 4272.2 | 4769.4 | 4919.1 |
| 25°   | 399.2  | 419.8  | 471.4  | 667.6  | 1108.1 | 1842.7 | 3128.0 | 4860.6 | 5509.3 | 5617.7 |
| 27.5° | 385.4  | 388.8  | 433.6  | 612.5  | 1025.5 | 1751.5 | 3217.5 | 5278.7 | 5970.4 | 6080.5 |
| 30°   | 406.1  | 461.1  | 464.6  | 517.9  | 872.3  | 1570.9 | 3263.9 | 5683.1 | 6361.0 | 6441.8 |
| 32.5° | 351.0  | 333.8  | 345.8  | 400.9  | 767.4  | 1465.9 | 3351.7 | 6035.8 | 6806.6 | 6863.4 |
| 35°   | 244.3  | 256.4  | 283.9  | 347.6  | 671.0  | 1355.8 | 3374.0 | 6424.6 | 7229.9 | 7288.4 |
| 37.5° | 225.4  | 232.3  | 254.6  | 295.9  | 590.2  | 1293.9 | 3343.1 | 6708.5 | 7668.6 | 7749.5 |
| 40°   | 209.9  | 218.5  | 230.6  | 268.4  | 529.9  | 1225.0 | 3300.1 | 6964.9 | 7937.0 | 8136.6 |
| 42.5° | 197.9  | 204.7  | 215.1  | 256.4  | 478.3  | 1156.2 | 3239.8 | 7326.2 | 8177.9 | 8351.7 |
| 45°   | 184.1  | 194.4  | 206.5  | 249.5  | 449.1  | 1109.8 | 3195.1 | 7303.8 | 8317.3 | 8410.2 |
| 47.5° | 170.3  | 187.5  | 201.3  | 232.3  | 440.5  | 1087.4 | 3214.0 | 7219.5 | 8203.7 | 8140.0 |
| 50°   | 156.6  | 178.9  | 203.0  | 192.7  | 419.8  | 1042.7 | 3236.4 | 7334.8 | 7933.6 | 7921.5 |
| 52.5° | 144.5  | 170.3  | 189.3  | 158.3  | 373.4  | 999.7  | 3453.2 | 7486.2 | 8124.6 | 7964.5 |
| 55°   | 127.3  | 153.1  | 151.4  | 127.3  | 302.8  | 967.0  | 3623.5 | 7489.7 | 7995.5 | 8055.7 |
| 57.5° | 115.3  | 135.9  | 118.7  | 106.7  | 223.7  | 808.7  | 3346.5 | 6280.1 | 6844.4 | 6951.1 |
| 60°   | 106.7  | 132.5  | 89.5   | 84.3   | 146.2  | 583.3  | 2921.5 | 4864.1 | 5440.5 | 5641.8 |
| 62.5° | 98.1   | 125.6  | 70.5   | 68.8   | 101.5  | 414.7  | 2401.9 | 4070.9 | 4688.6 | 4962.1 |
| 65°   | 86.0   | 89.5   | 56.8   | 53.3   | 72.3   | 223.7  | 1462.5 | 2802.8 | 3504.8 | 3606.3 |
| 67.5° | 70.5   | 68.8   | 46.5   | 43.0   | 48.2   | 108.4  | 645.2  | 1404.0 | 2032.0 | 2202.3 |
| 70°   | 56.8   | 56.8   | 39.6   | 34.4   | 34.4   | 49.9   | 168.6  | 559.2  | 918.8  | 1016.9 |
| 72.5° | 41.3   | 43.0   | 31.0   | 27.5   | 25.8   | 24.1   | 27.5   | 111.8  | 240.9  | 308.0  |
| 75°   | 36.1   | 37.9   | 31.0   | 24.1   | 18.9   | 15.5   | 12.0   | 10.3   | 13.8   | 22.4   |
| 77.5° | 39.6   | 39.6   | 32.7   | 22.4   | 17.2   | 12.0   | 6.9    | 3.4    | 3.4    | 1.7    |
| 80°   | 49.9   | 51.6   | 43.0   | 29.2   | 20.6   | 13.8   | 8.6    | 3.4    | 1.7    | 1.7    |
| 82.5° | 53.3   | 58.5   | 48.2   | 36.1   | 25.8   | 15.5   | 8.6    | 1.7    | 0.0    | 0.0    |
| 85°   | 13.8   | 22.4   | 37.9   | 32.7   | 25.8   | 15.5   | 8.6    | 1.7    | 0.0    | 0.0    |
| 87.5° | 0.0    | 1.7    | 5.2    | 5.2    | 6.9    | 6.9    | 5.2    | 1.7    | 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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