

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: P456680

Luminaire Tested: **GALN-SA8A-722-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8A-722-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21254 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

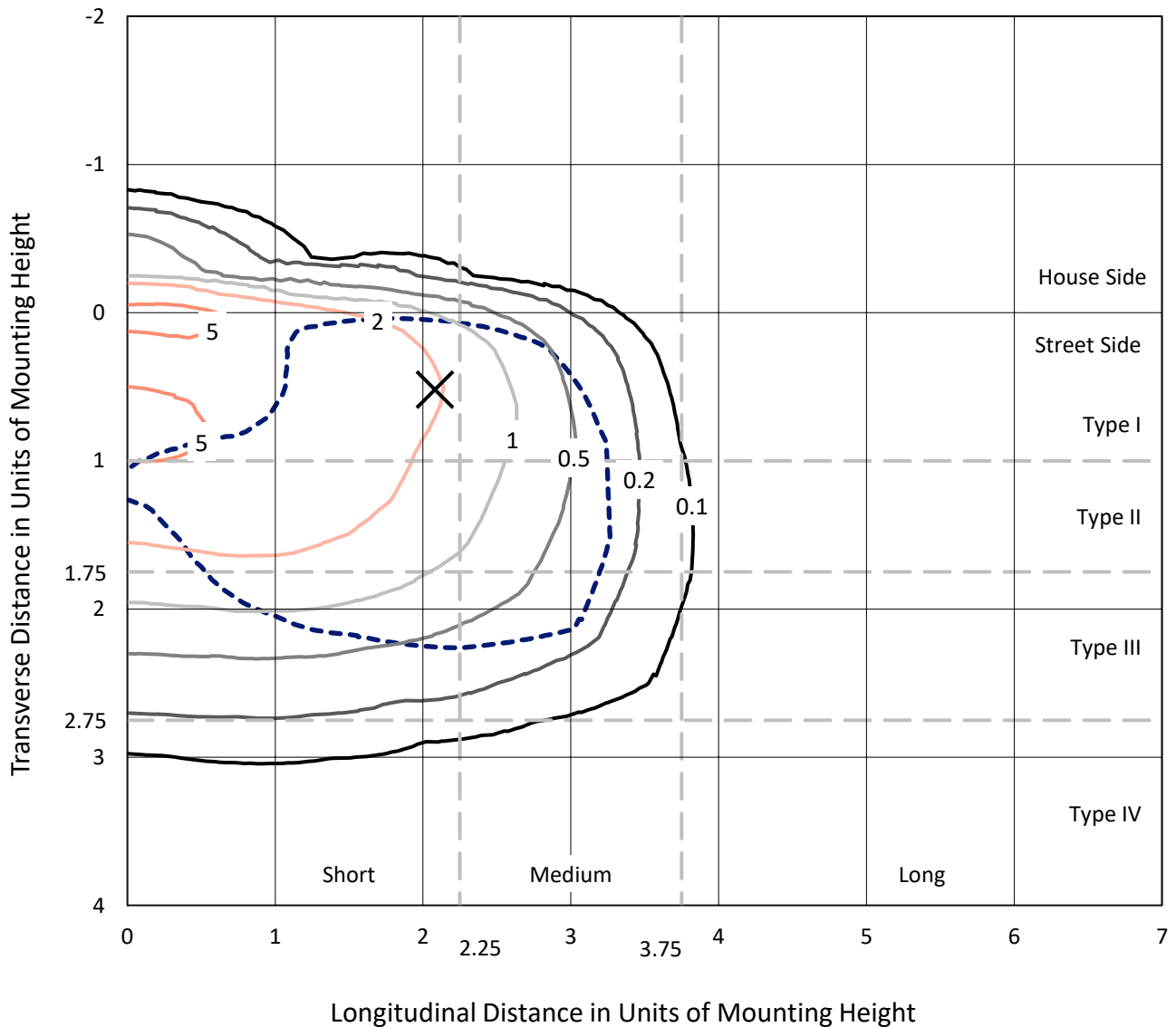
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

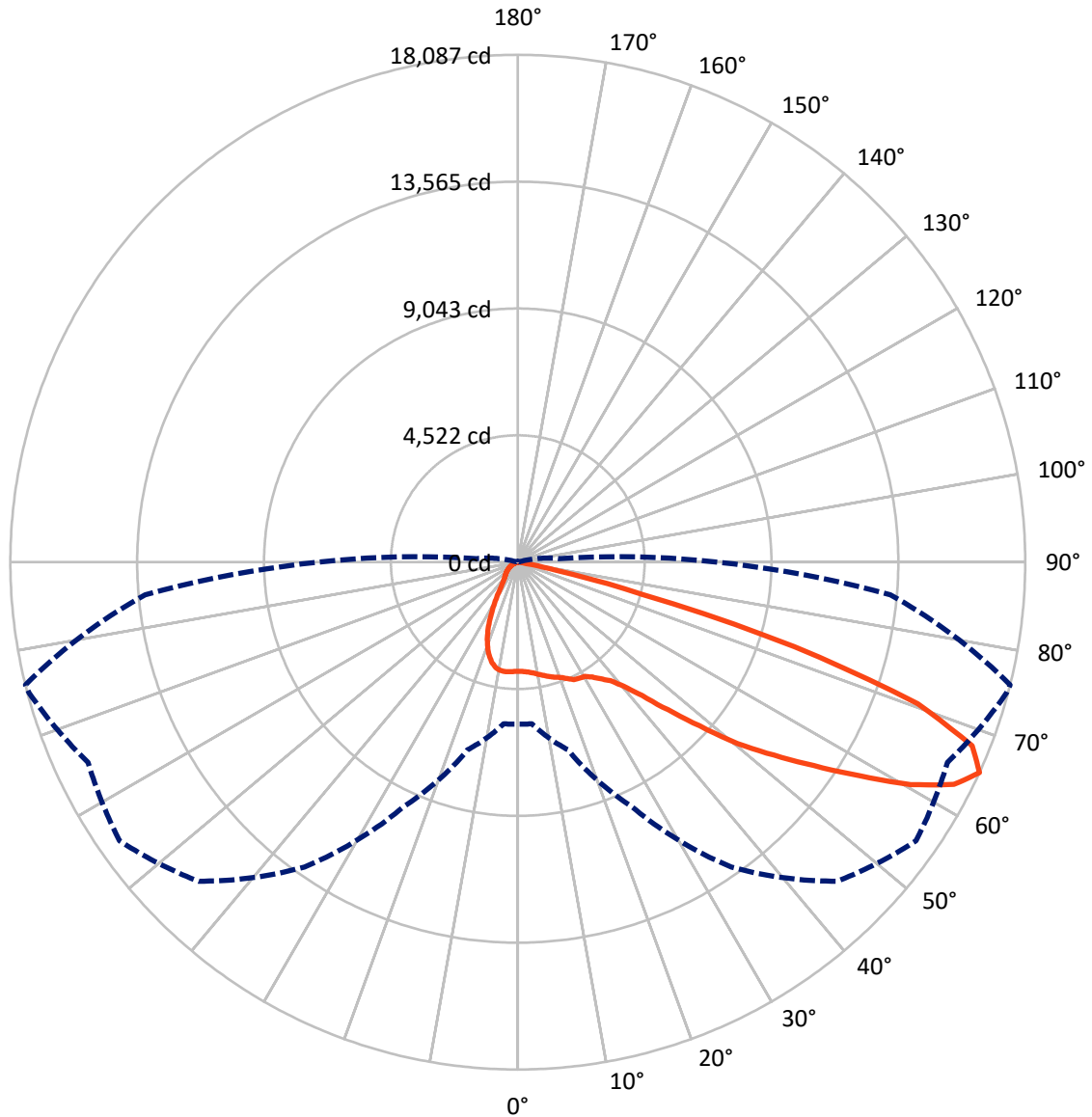
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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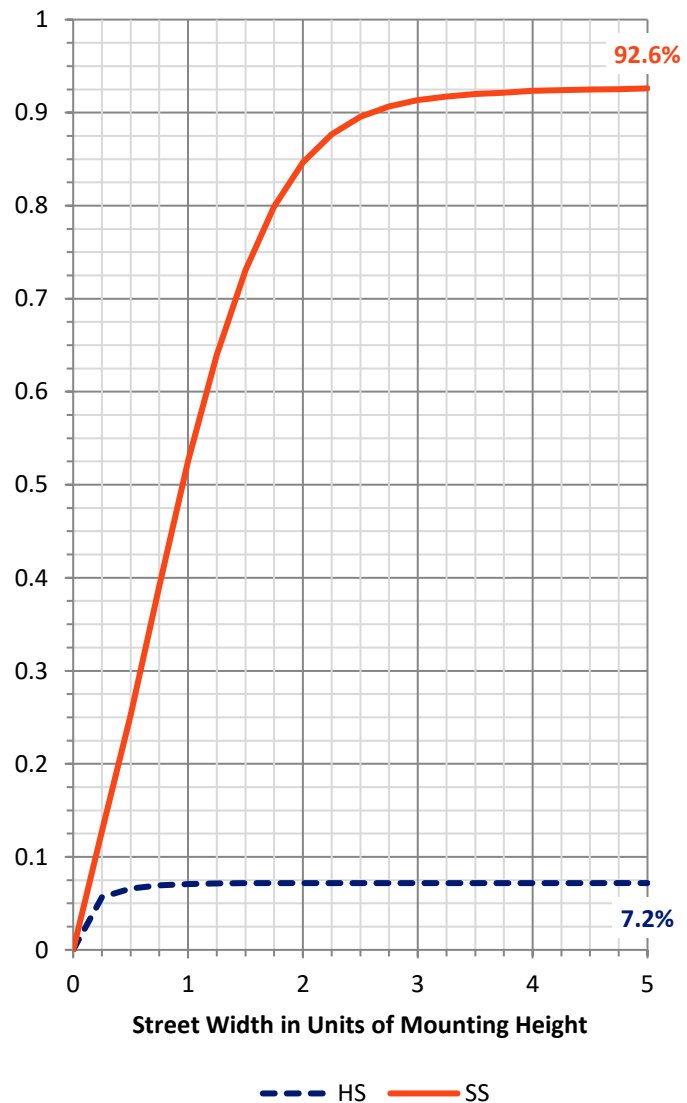
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1534.9   | 0.0    | 1534.9  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 19719.0  | 0.0    | 19719.0 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 21254.0  | 0.0    | 21254.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 320.3   | 1.5       |
| 10°-20°   | 713.1   | 3.4       |
| 20°-30°   | 1149.2  | 5.4       |
| 30°-40°   | 1998.1  | 9.4       |
| 40°-50°   | 3301.7  | 15.5      |
| 50°-60°   | 5100.5  | 24.0      |
| 60°-70°   | 6228.4  | 29.3      |
| 70°-80°   | 2363.8  | 11.1      |
| 80°-90°   | 78.9    | 0.4       |
| 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°    | 21254.0 | 100.0     |
| 0°-180°   | 21254.0 | 100.0     |



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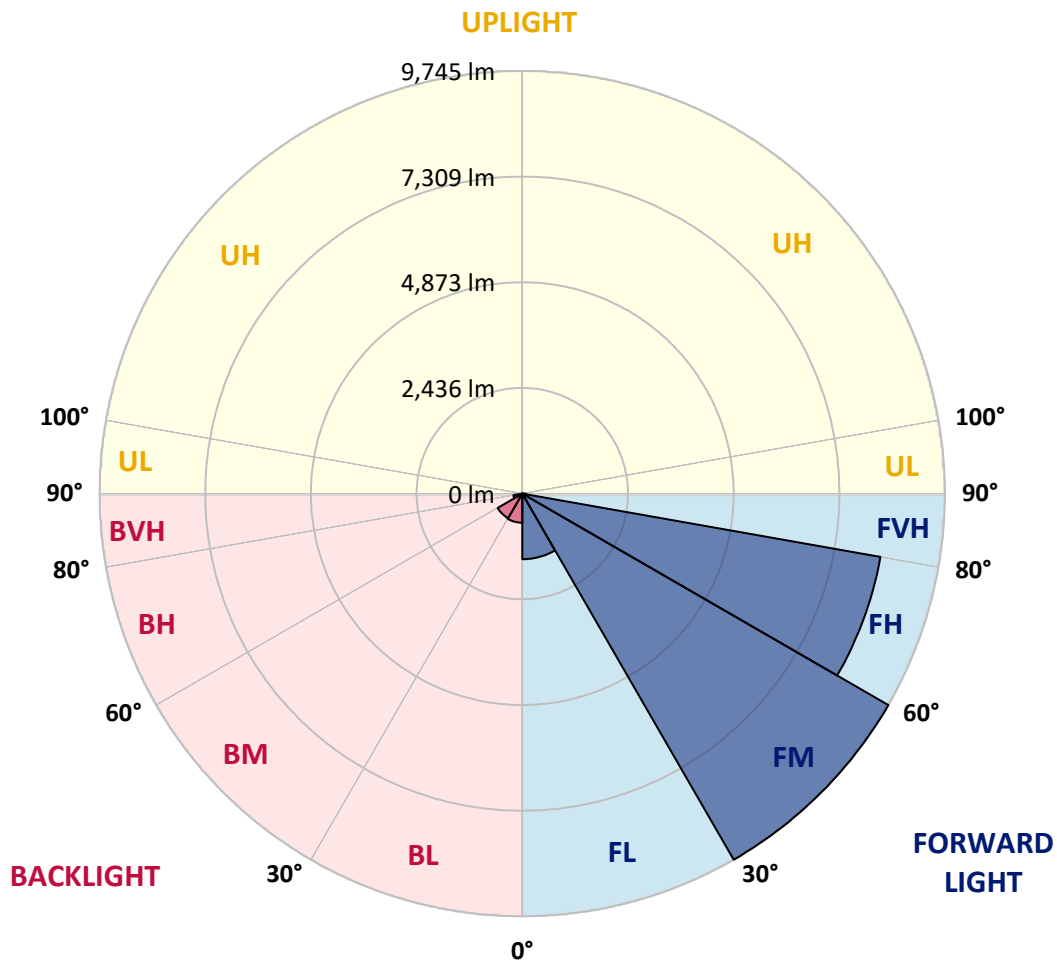
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1512.0 | 7.1       |                         |      |          |
| FM (30°-60°)   | 9745.3 | 45.9      |                         |      |          |
| FH (60°-80°)   | 8384.0 | 39.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 77.8   | 0.4       |                         |      | G1/100   |
| BL (0°-30°)    | 670.6  | 3.2       | B2/1000                 |      |          |
| BM (30°-60°)   | 655.0  | 3.1       | B1/1000                 |      |          |
| BH (60°-80°)   | 208.3  | 1.0       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 1.1    | 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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3888.0 | 3888.0 | 3888.0 | 3888.0  | 3888.0  | 3888.0  | 3888.0  | 3888.0  | 3888.0  | 3888.0  | 3888.0  |
| 2.5°  | 3715.5 | 3717.0 | 3726.0 | 3748.5  | 3783.0  | 3811.5  | 3835.5  | 3874.5  | 3901.5  | 3904.5  | 3913.5  |
| 5°    | 3458.9 | 3440.9 | 3458.9 | 3517.4  | 3569.9  | 3649.4  | 3747.0  | 3844.5  | 3931.6  | 3937.6  | 3979.6  |
| 7.5°  | 3170.8 | 3185.8 | 3214.3 | 3274.3  | 3373.3  | 3494.9  | 3635.9  | 3810.0  | 3975.1  | 3990.1  | 4072.6  |
| 10°   | 2878.1 | 2911.1 | 2957.7 | 3049.2  | 3187.3  | 3344.8  | 3536.9  | 3786.0  | 4044.1  | 4065.1  | 4207.7  |
| 12.5° | 2608.0 | 2623.0 | 2680.1 | 2803.1  | 2974.2  | 3196.3  | 3461.9  | 3772.5  | 4120.6  | 4146.1  | 4351.7  |
| 15°   | 2400.9 | 2420.5 | 2470.0 | 2581.0  | 2771.6  | 3056.7  | 3400.3  | 3768.0  | 4195.7  | 4231.7  | 4495.8  |
| 17.5° | 2361.9 | 2373.9 | 2394.9 | 2470.0  | 2636.5  | 2945.7  | 3344.8  | 3766.5  | 4267.7  | 4311.2  | 4629.3  |
| 20°   | 2522.5 | 2512.0 | 2491.0 | 2483.5  | 2575.0  | 2860.1  | 3304.3  | 3778.5  | 4336.7  | 4386.2  | 4770.4  |
| 22.5° | 2924.7 | 2938.2 | 2815.1 | 2669.6  | 2639.5  | 2846.6  | 3298.3  | 3835.5  | 4446.3  | 4504.8  | 4927.9  |
| 25°   | 3778.5 | 3675.0 | 3482.9 | 3134.7  | 2872.1  | 2929.2  | 3365.8  | 3970.6  | 4573.8  | 4638.3  | 5070.5  |
| 27.5° | 4722.4 | 4690.9 | 4392.2 | 3819.0  | 3329.8  | 3103.2  | 3485.9  | 4074.1  | 4615.8  | 4681.8  | 5151.5  |
| 30°   | 5649.7 | 5687.2 | 5345.1 | 4711.9  | 3994.6  | 3425.9  | 3598.4  | 4113.1  | 4653.3  | 4722.4  | 5255.1  |
| 32.5° | 6509.6 | 6554.6 | 6254.5 | 5627.2  | 4777.9  | 3984.1  | 3792.0  | 4264.7  | 4810.9  | 4881.4  | 5427.6  |
| 35°   | 7186.3 | 7192.3 | 6965.7 | 6466.1  | 5633.2  | 4662.3  | 4210.7  | 4530.3  | 5024.0  | 5106.5  | 5610.7  |
| 37.5° | 7807.6 | 7798.6 | 7533.0 | 7102.3  | 6346.0  | 5336.1  | 4737.4  | 4836.4  | 5267.1  | 5352.6  | 5874.8  |
| 40°   | 8268.3 | 8274.3 | 8188.7 | 7783.6  | 7010.8  | 5958.9  | 5154.5  | 5123.0  | 5675.2  | 5808.8  | 6259.0  |
| 42.5° | 8575.9 | 8631.4 | 8673.4 | 8467.8  | 7846.6  | 6725.7  | 5795.3  | 5736.8  | 6383.5  | 6494.6  | 6802.2  |
| 45°   | 8825.0 | 8924.0 | 9134.1 | 9123.6  | 8649.4  | 7666.5  | 6674.6  | 6554.6  | 7387.4  | 7506.0  | 7494.0  |
| 47.5° | 9006.6 | 9107.1 | 9455.2 | 9665.3  | 9404.2  | 8578.9  | 7780.6  | 7677.0  | 8586.4  | 8715.4  | 8257.8  |
| 50°   | 9099.6 | 9219.6 | 9663.8 | 10070.5 | 9993.9  | 9458.2  | 9041.1  | 9047.1  | 10034.5 | 10159.0 | 9143.1  |
| 52.5° | 8882.0 | 9038.1 | 9774.9 | 10507.1 | 10655.7 | 10300.1 | 10222.0 | 10420.1 | 11323.5 | 11430.0 | 9942.9  |
| 55°   | 8187.2 | 8383.8 | 9623.3 | 10879.3 | 11422.5 | 11293.5 | 11563.6 | 11865.2 | 12732.5 | 12801.6 | 10763.7 |
| 57.5° | 7747.6 | 7956.1 | 9176.1 | 11195.9 | 12343.9 | 12542.0 | 12969.6 | 13190.2 | 14186.6 | 14362.2 | 11706.1 |
| 60°   | 7376.9 | 7540.5 | 8808.5 | 11263.4 | 13280.2 | 14069.6 | 14485.2 | 14713.3 | 15981.3 | 16095.4 | 12743.0 |
| 62.5° | 6760.2 | 6947.7 | 8187.2 | 10792.3 | 13751.4 | 15292.5 | 16153.9 | 16051.8 | 17369.4 | 17448.9 | 13379.3 |
| 65°   | 5768.3 | 5784.8 | 6926.7 | 9608.3  | 13265.2 | 16086.4 | 17325.8 | 16898.2 | 18032.6 | 18086.6 | 13329.8 |
| 67.5° | 4305.2 | 4464.3 | 5328.6 | 7552.5  | 11204.9 | 15408.1 | 17705.5 | 16920.7 | 17614.0 | 17463.9 | 12271.8 |
| 70°   | 2773.1 | 2894.6 | 3611.9 | 5237.1  | 8079.2  | 12858.6 | 16446.5 | 15760.7 | 15459.1 | 15126.0 | 10045.0 |
| 72.5° | 1280.0 | 1436.1 | 2145.8 | 2992.2  | 4791.4  | 9159.6  | 13350.8 | 12804.6 | 11126.9 | 10304.6 | 6385.0  |
| 75°   | 558.2  | 597.2  | 1059.4 | 1578.6  | 2246.4  | 4843.9  | 8802.5  | 7948.6  | 5025.5  | 4590.3  | 2555.5  |
| 77.5° | 340.6  | 366.1  | 555.2  | 846.3   | 882.3   | 1845.7  | 4741.9  | 3467.9  | 1553.1  | 1370.0  | 693.3   |
| 80°   | 231.1  | 259.6  | 403.7  | 442.7   | 301.6   | 514.7   | 1779.7  | 925.9   | 313.6   | 300.1   | 148.6   |
| 82.5° | 112.5  | 142.6  | 298.6  | 247.6   | 130.6   | 165.1   | 517.7   | 198.1   | 91.5    | 85.5    | 52.5    |
| 85°   | 16.5   | 28.5   | 168.1  | 162.1   | 58.5    | 39.0    | 91.5    | 49.5    | 31.5    | 30.0    | 24.0    |
| 87.5° | 0.0    | 0.0    | 57.0   | 25.5    | 6.0     | 6.0     | 10.5    | 10.5    | 12.0    | 10.5    | 12.0    |
| 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°    | 3888.0 | 3888.0 | 3888.0 | 3888.0 | 3888.0 | 3888.0 | 3888.0 | 3888.0 | 3888.0 | 3888.0 | 3888.0 |
| 2.5°  | 3918.0 | 3925.5 | 3897.0 | 3856.5 | 3813.0 | 3769.5 | 3708.0 | 3652.4 | 3619.4 | 3638.9 | 3590.9 |
| 5°    | 3988.6 | 3982.6 | 3907.5 | 3784.5 | 3620.9 | 3424.4 | 3229.3 | 3062.7 | 3008.7 | 2927.7 | 2918.7 |
| 7.5°  | 4086.1 | 4069.6 | 3910.5 | 3628.4 | 3259.3 | 2890.1 | 2530.0 | 2291.4 | 2154.9 | 2039.3 | 2042.3 |
| 10°   | 4222.7 | 4174.6 | 3876.0 | 3353.8 | 2746.1 | 2189.4 | 1730.2 | 1415.1 | 1278.5 | 1235.0 | 1200.5 |
| 12.5° | 4363.7 | 4270.7 | 3780.0 | 2983.2 | 2138.3 | 1496.1 | 1051.9 | 859.8  | 775.8  | 748.8  | 745.8  |
| 15°   | 4489.8 | 4342.7 | 3611.9 | 2537.5 | 1554.6 | 955.9  | 717.3  | 654.3  | 643.8  | 645.3  | 643.8  |
| 17.5° | 4614.3 | 4399.7 | 3379.3 | 2064.8 | 1056.4 | 685.8  | 616.7  | 601.7  | 606.2  | 612.2  | 610.7  |
| 20°   | 4717.9 | 4411.7 | 3082.2 | 1575.6 | 747.3  | 601.7  | 579.2  | 576.2  | 580.7  | 585.2  | 585.2  |
| 22.5° | 4830.4 | 4420.7 | 2729.6 | 1090.9 | 610.7  | 559.7  | 547.7  | 547.7  | 553.7  | 559.7  | 561.2  |
| 25°   | 4914.4 | 4371.2 | 2307.9 | 783.3  | 538.7  | 519.2  | 513.2  | 514.7  | 520.7  | 523.7  | 522.2  |
| 27.5° | 4927.9 | 4231.7 | 1860.7 | 600.2  | 489.2  | 469.7  | 463.7  | 469.7  | 462.2  | 466.7  | 463.7  |
| 30°   | 4940.0 | 4054.6 | 1407.6 | 505.7  | 444.2  | 414.2  | 405.2  | 396.2  | 390.2  | 382.7  | 381.2  |
| 32.5° | 4977.5 | 3846.0 | 1027.9 | 454.7  | 402.2  | 369.1  | 348.1  | 322.6  | 303.1  | 297.1  | 295.6  |
| 35°   | 4994.0 | 3595.4 | 754.8  | 414.2  | 364.6  | 328.6  | 291.1  | 255.1  | 226.6  | 216.1  | 223.6  |
| 37.5° | 5057.0 | 3352.3 | 585.2  | 384.2  | 331.6  | 286.6  | 238.6  | 193.6  | 166.6  | 160.6  | 163.6  |
| 40°   | 5186.0 | 3088.2 | 490.7  | 358.6  | 303.1  | 247.6  | 189.1  | 145.6  | 127.6  | 121.5  | 120.0  |
| 42.5° | 5393.1 | 2825.6 | 436.7  | 334.6  | 274.6  | 208.6  | 148.6  | 114.0  | 99.0   | 94.5   | 94.5   |
| 45°   | 5645.2 | 2573.5 | 399.2  | 309.1  | 244.6  | 168.1  | 117.0  | 91.5   | 82.5   | 79.5   | 79.5   |
| 47.5° | 5976.9 | 2352.9 | 367.6  | 283.6  | 211.6  | 133.6  | 94.5   | 79.5   | 73.5   | 75.0   | 76.5   |
| 50°   | 6313.0 | 2189.4 | 333.1  | 255.1  | 174.1  | 109.5  | 81.0   | 70.5   | 69.0   | 70.5   | 70.5   |
| 52.5° | 6566.6 | 2093.3 | 286.6  | 216.1  | 136.6  | 91.5   | 72.0   | 66.0   | 64.5   | 61.5   | 61.5   |
| 55°   | 6908.7 | 2072.3 | 228.1  | 175.6  | 108.0  | 76.5   | 64.5   | 60.0   | 55.5   | 52.5   | 51.0   |
| 57.5° | 7348.4 | 2096.3 | 175.6  | 136.6  | 84.0   | 63.0   | 57.0   | 49.5   | 43.5   | 37.5   | 37.5   |
| 60°   | 7621.5 | 2042.3 | 136.6  | 105.0  | 61.5   | 51.0   | 43.5   | 36.0   | 28.5   | 24.0   | 22.5   |
| 62.5° | 7534.5 | 1814.2 | 108.0  | 78.0   | 43.5   | 37.5   | 28.5   | 24.0   | 16.5   | 12.0   | 10.5   |
| 65°   | 7085.8 | 1464.6 | 87.0   | 54.0   | 31.5   | 22.5   | 15.0   | 15.0   | 7.5    | 1.5    | 0.0    |
| 67.5° | 6201.9 | 1084.9 | 69.0   | 36.0   | 18.0   | 10.5   | 7.5    | 4.5    | 0.0    | 0.0    | 0.0    |
| 70°   | 5048.0 | 783.3  | 54.0   | 22.5   | 10.5   | 7.5    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    |
| 72.5° | 3205.3 | 448.7  | 42.0   | 13.5   | 7.5    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1239.5 | 175.6  | 28.5   | 9.0    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 351.1  | 82.5   | 16.5   | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 91.5   | 36.0   | 9.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 43.5   | 15.0   | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 25.5   | 6.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 12.0   | 1.5    | 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    |

(END OF REPORT)