

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: P455041

Luminaire Tested: **GALN-SA6B-722-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-722-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20519 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

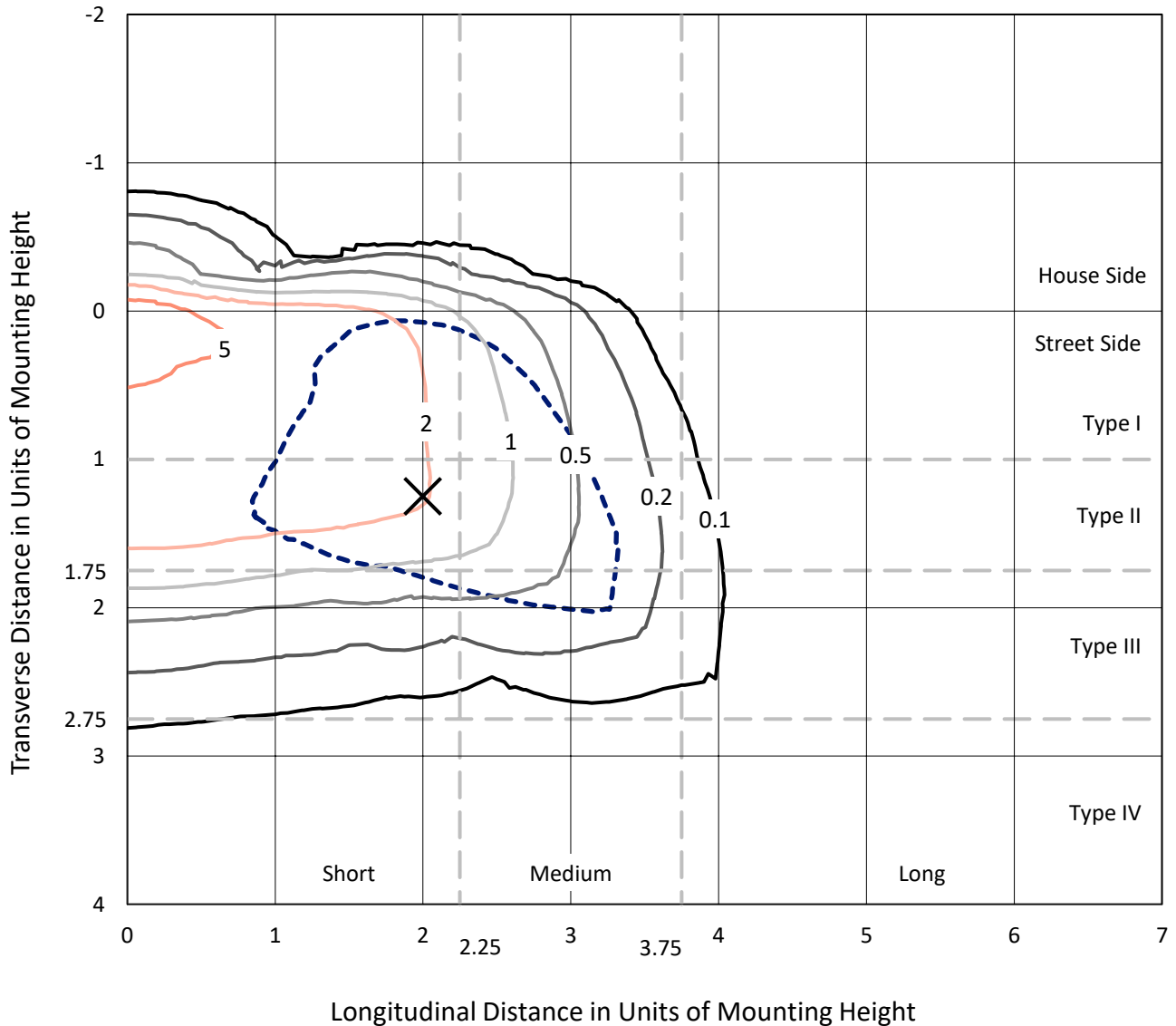
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

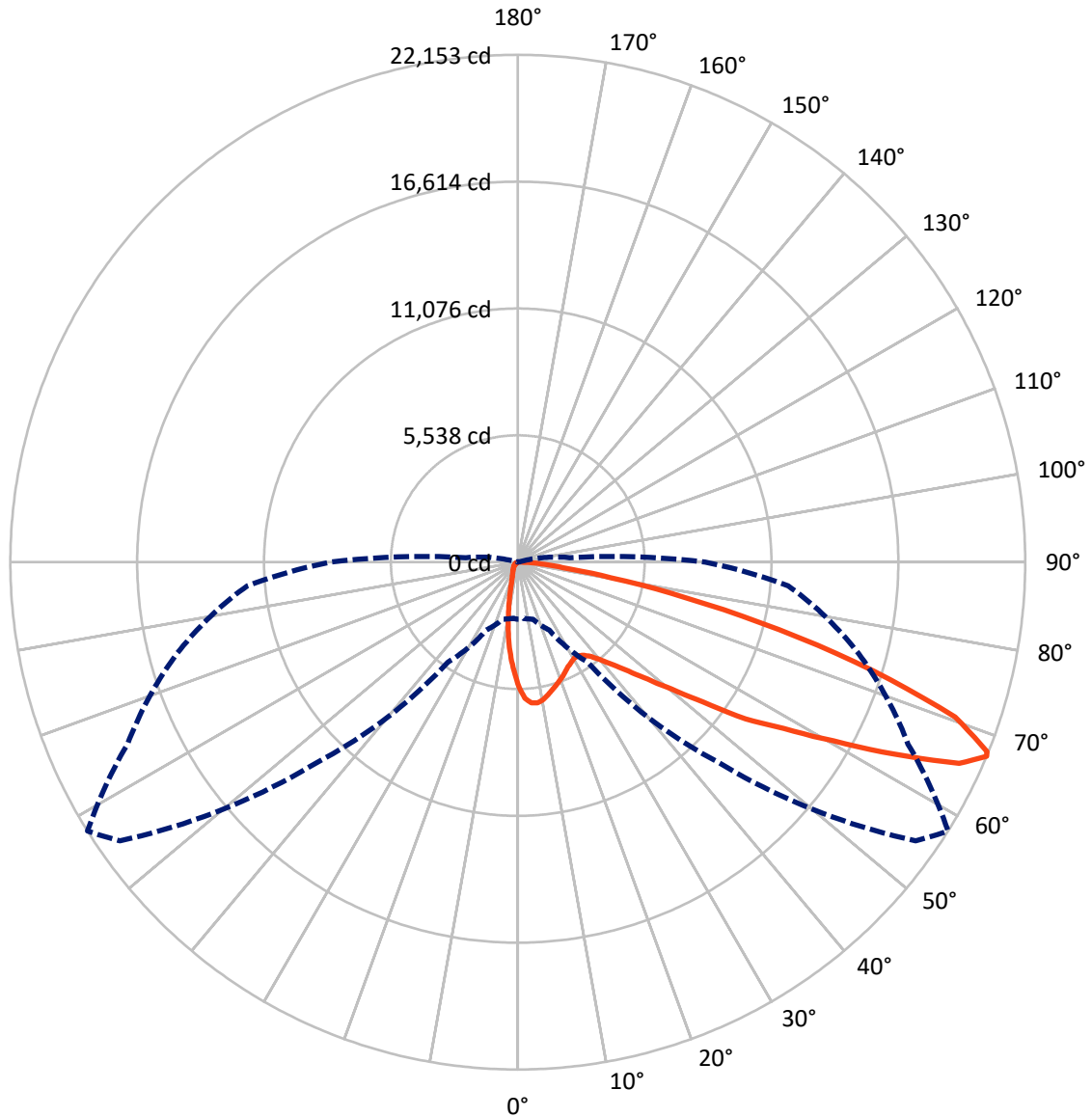
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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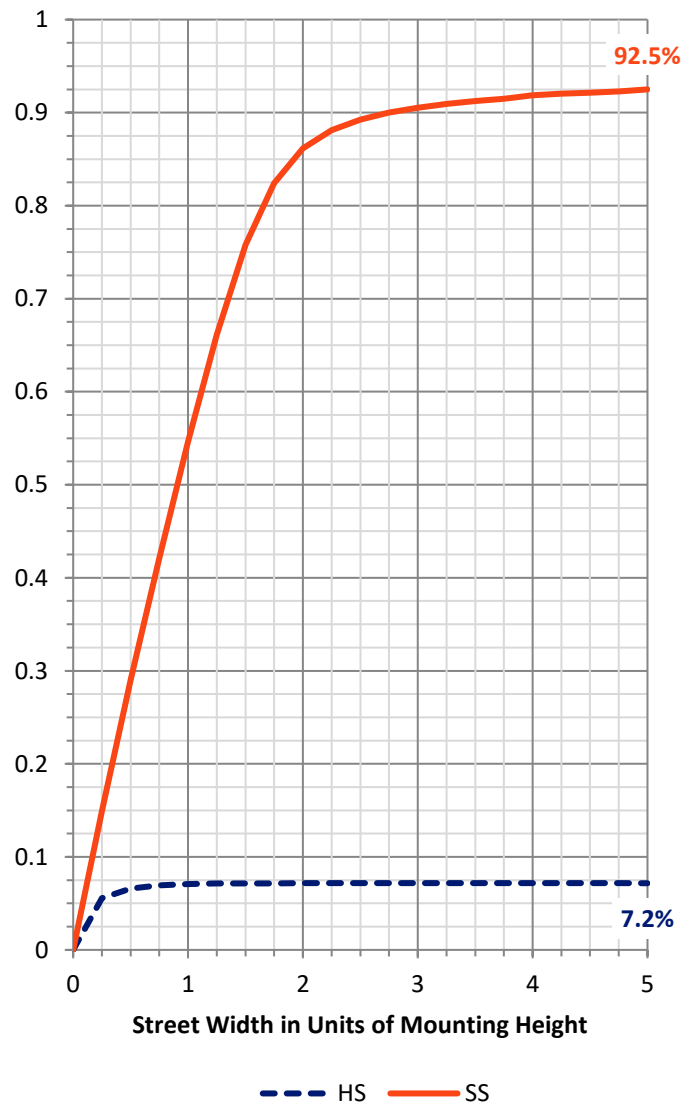
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1480.8   | 0.0    | 1480.8  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 19038.2  | 0.0    | 19038.2 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 20519.0  | 0.0    | 20519.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 441.4   | 2.2       |
| 10°-20°   | 953.3   | 4.6       |
| 20°-30°   | 1291.8  | 6.3       |
| 30°-40°   | 1791.6  | 8.7       |
| 40°-50°   | 2857.5  | 13.9      |
| 50°-60°   | 4939.4  | 24.1      |
| 60°-70°   | 5642.3  | 27.5      |
| 70°-80°   | 2352.3  | 11.5      |
| 80°-90°   | 249.4   | 1.2       |
| 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°    | 20519.0 | 100.0     |
| 0°-180°   | 20519.0 | 100.0     |



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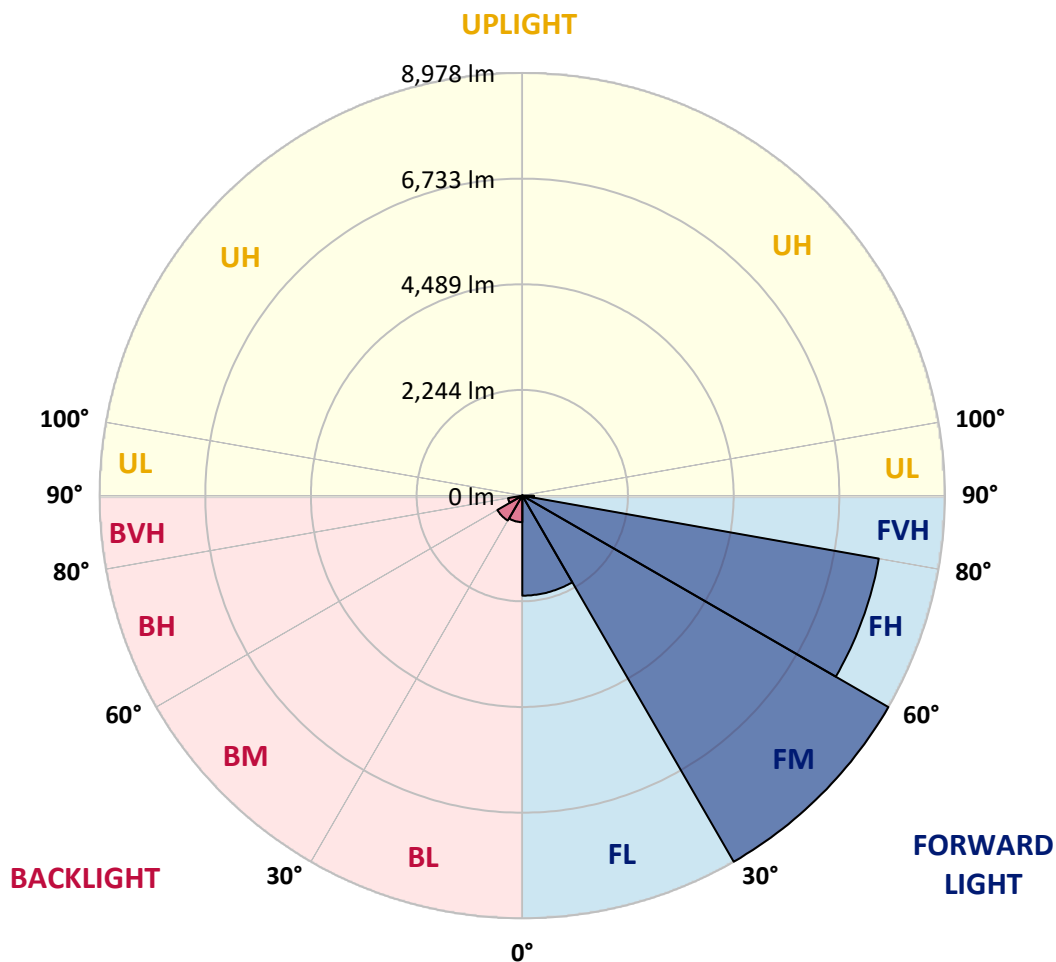
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 2124.2 | 10.4      |                         |      |          |
| FM (30°-60°)   | 8977.9 | 43.8      |                         |      |          |
| FH (60°-80°)   | 7688.5 | 37.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 247.6  | 1.2       |                         |      | G3/500   |
| BL (0°-30°)    | 562.3  | 2.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 610.6  | 3.0       | B1/1000                 |      |          |
| BH (60°-80°)   | 306.1  | 1.5       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 1.8    | 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°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5439.4 | 5439.4 | 5439.4 | 5439.4  | 5439.4  | 5439.4  | 5439.4  | 5439.4  | 5439.4  | 5439.4  | 5439.4  |
| 2.5°  | 6312.8 | 6322.4 | 6286.8 | 6258.0  | 6183.9  | 6104.4  | 5998.8  | 5942.6  | 5846.6  | 5680.7  | 5497.0  |
| 5°    | 6460.9 | 6473.3 | 6467.8 | 6460.9  | 6432.1  | 6355.3  | 6221.0  | 6171.6  | 6030.4  | 5760.3  | 5428.4  |
| 7.5°  | 6131.8 | 6177.1 | 6182.6 | 6236.0  | 6286.8  | 6293.6  | 6242.9  | 6205.9  | 6075.6  | 5758.9  | 5306.4  |
| 10°   | 5695.8 | 5726.0 | 5769.8 | 5831.6  | 5953.6  | 6055.1  | 6104.4  | 6098.9  | 6023.5  | 5716.4  | 5163.8  |
| 12.5° | 5255.7 | 5272.1 | 5339.3 | 5444.9  | 5594.3  | 5767.1  | 5898.7  | 5924.8  | 5926.2  | 5665.6  | 5044.5  |
| 15°   | 4877.2 | 4870.4 | 4922.5 | 5044.5  | 5254.3  | 5470.9  | 5706.8  | 5747.9  | 5813.7  | 5616.3  | 4933.4  |
| 17.5° | 4553.6 | 4589.3 | 4597.5 | 4731.9  | 4925.2  | 5206.3  | 5506.6  | 5579.3  | 5710.9  | 5573.8  | 4841.6  |
| 20°   | 4353.4 | 4372.6 | 4390.5 | 4465.9  | 4640.0  | 4936.2  | 5318.7  | 5418.8  | 5614.9  | 5535.4  | 4738.7  |
| 22.5° | 4294.5 | 4306.8 | 4291.7 | 4315.0  | 4438.5  | 4701.7  | 5114.4  | 5247.4  | 5523.0  | 5499.7  | 4655.1  |
| 25°   | 4339.7 | 4352.1 | 4316.4 | 4289.0  | 4331.5  | 4511.1  | 4917.0  | 5078.8  | 5449.0  | 5492.9  | 4592.0  |
| 27.5° | 4449.4 | 4472.7 | 4423.4 | 4374.0  | 4349.3  | 4408.3  | 4762.0  | 4949.9  | 5398.3  | 5525.8  | 4563.2  |
| 30°   | 4620.8 | 4634.5 | 4597.5 | 4537.2  | 4481.0  | 4422.0  | 4681.1  | 4860.8  | 5384.6  | 5602.6  | 4560.5  |
| 32.5° | 4807.3 | 4836.1 | 4815.5 | 4775.8  | 4703.1  | 4563.2  | 4704.5  | 4863.5  | 5417.5  | 5713.6  | 4594.8  |
| 35°   | 5037.6 | 5070.6 | 5089.8 | 5081.5  | 4988.3  | 4814.1  | 4852.5  | 4986.9  | 5505.2  | 5917.9  | 4688.0  |
| 37.5° | 5263.9 | 5292.7 | 5401.0 | 5438.0  | 5355.8  | 5191.2  | 5140.5  | 5229.6  | 5698.5  | 6185.3  | 4856.7  |
| 40°   | 5523.0 | 5561.4 | 5713.6 | 5854.9  | 5815.1  | 5642.3  | 5549.1  | 5623.1  | 5994.7  | 6588.4  | 5176.1  |
| 42.5° | 5771.2 | 5839.8 | 6071.5 | 6321.1  | 6358.1  | 6164.7  | 6103.0  | 6127.7  | 6433.5  | 7168.4  | 5621.8  |
| 45°   | 6123.6 | 6188.1 | 6487.0 | 6825.6  | 6999.8  | 6849.0  | 6785.9  | 6781.8  | 7035.4  | 7984.3  | 6344.4  |
| 47.5° | 6632.3 | 6689.9 | 7042.3 | 7376.8  | 7686.7  | 7707.3  | 7588.0  | 7629.1  | 7792.3  | 8938.6  | 7230.1  |
| 50°   | 7256.2 | 7391.9 | 7623.7 | 7971.9  | 8386.0  | 8720.6  | 8757.6  | 8702.8  | 8842.6  | 10043.8 | 8294.2  |
| 52.5° | 8162.5 | 8214.6 | 8427.2 | 8713.7  | 9199.1  | 9766.8  | 10206.9 | 10131.5 | 10087.6 | 11096.8 | 9369.1  |
| 55°   | 8838.5 | 8908.4 | 9238.9 | 9632.4  | 10344.0 | 11092.7 | 12047.0 | 12073.1 | 11519.1 | 12108.7 | 10420.8 |
| 57.5° | 8634.2 | 8741.2 | 9241.6 | 10032.8 | 11597.3 | 12965.7 | 13676.0 | 13693.8 | 12843.7 | 13091.9 | 11608.3 |
| 60°   | 7585.3 | 7636.0 | 8353.1 | 9408.9  | 11704.2 | 14995.0 | 15986.4 | 15842.4 | 14191.5 | 14191.5 | 12657.2 |
| 62.5° | 5379.1 | 5458.6 | 6040.0 | 7593.5  | 10570.3 | 15699.8 | 18753.4 | 18455.8 | 16048.1 | 15243.2 | 13282.4 |
| 65°   | 3437.5 | 3360.7 | 3746.0 | 4793.6  | 7874.6  | 14659.1 | 21162.5 | 21180.3 | 17794.9 | 15664.2 | 12941.0 |
| 67°   | 2490.0 | 2459.9 | 2570.9 | 3277.1  | 5339.3  | 12322.6 | 21213.2 | 22152.5 | 18798.6 | 15398.1 | 11849.6 |
| 67.5° | 2277.5 | 2300.8 | 2381.7 | 2956.2  | 4851.2  | 11213.4 | 20982.9 | 22094.9 | 19024.9 | 15237.7 | 11454.7 |
| 70°   | 1726.3 | 1686.5 | 1774.3 | 2091.0  | 2908.2  | 7073.8  | 18050.0 | 20264.4 | 18743.8 | 13645.8 | 9152.5  |
| 72.5° | 1269.7 | 1265.6 | 1387.6 | 1709.8  | 2239.1  | 3768.0  | 13549.8 | 16248.3 | 15313.1 | 10390.7 | 5763.0  |
| 75°   | 857.0  | 895.4  | 1090.1 | 1428.8  | 2029.3  | 2443.4  | 9237.5  | 11787.9 | 10630.6 | 5900.1  | 2355.7  |
| 77.5° | 488.1  | 490.9  | 702.0  | 1147.7  | 1822.3  | 1966.2  | 5473.7  | 7509.9  | 5627.2  | 1962.1  | 699.3   |
| 80°   | 211.2  | 231.7  | 348.3  | 833.7   | 1511.0  | 1741.4  | 3138.6  | 4127.2  | 2276.1  | 415.5   | 226.2   |
| 82.5° | 78.2   | 91.9   | 153.6  | 512.8   | 1102.4  | 1434.2  | 1896.3  | 1970.4  | 772.0   | 146.7   | 141.2   |
| 85°   | 0.0    | 2.7    | 56.2   | 240.0   | 574.5   | 640.3   | 1267.0  | 1168.2  | 341.4   | 69.9    | 91.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 24.7    | 75.4    | 238.6   | 393.5   | 438.8   | 82.3    | 24.7    | 21.9    |
| 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°    | 5439.4 | 5439.4 | 5439.4 | 5439.4 | 5439.4 | 5439.4 | 5439.4 | 5439.4 | 5439.4 | 5439.4 | 5439.4 |
| 2.5°  | 5398.3 | 5309.1 | 5085.6 | 4862.1 | 4696.2 | 4557.7 | 4349.3 | 4235.5 | 4175.2 | 4086.1 | 4091.5 |
| 5°    | 5262.5 | 5081.5 | 4688.0 | 4280.8 | 3951.7 | 3630.8 | 3246.9 | 3092.0 | 2961.7 | 2887.7 | 2838.3 |
| 7.5°  | 5061.0 | 4793.6 | 4210.8 | 3667.9 | 3161.9 | 2601.1 | 2180.1 | 1899.1 | 1709.8 | 1639.9 | 1572.7 |
| 10°   | 4840.2 | 4485.1 | 3726.8 | 2974.0 | 2272.0 | 1693.4 | 1336.9 | 1079.1 | 987.2  | 902.2  | 910.5  |
| 12.5° | 4635.9 | 4204.0 | 3282.6 | 2347.4 | 1591.9 | 1076.4 | 839.2  | 733.6  | 703.4  | 693.8  | 693.8  |
| 15°   | 4468.6 | 3935.2 | 2805.4 | 1764.7 | 1091.4 | 773.3  | 671.9  | 643.1  | 632.1  | 629.4  | 629.4  |
| 17.5° | 4290.4 | 3680.2 | 2374.9 | 1304.0 | 793.9  | 647.2  | 612.9  | 593.7  | 589.6  | 586.9  | 586.9  |
| 20°   | 4131.3 | 3423.8 | 1966.2 | 970.8  | 641.7  | 582.7  | 560.8  | 548.5  | 544.4  | 541.6  | 543.0  |
| 22.5° | 3980.5 | 3196.2 | 1582.3 | 733.6  | 564.9  | 530.6  | 508.7  | 496.4  | 488.1  | 481.3  | 482.6  |
| 25°   | 3846.1 | 2976.8 | 1272.4 | 600.6  | 508.7  | 478.5  | 456.6  | 438.8  | 420.9  | 412.7  | 411.3  |
| 27.5° | 3751.5 | 2784.8 | 991.3  | 514.2  | 458.0  | 425.1  | 397.6  | 375.7  | 352.4  | 340.0  | 337.3  |
| 30°   | 3673.3 | 2590.1 | 784.3  | 453.9  | 407.2  | 375.7  | 341.4  | 309.9  | 285.2  | 272.9  | 267.4  |
| 32.5° | 3622.6 | 2405.0 | 618.4  | 404.5  | 364.7  | 326.3  | 287.9  | 256.4  | 229.0  | 216.6  | 213.9  |
| 35°   | 3614.4 | 2250.1 | 506.0  | 363.4  | 326.3  | 285.2  | 245.4  | 211.2  | 187.8  | 175.5  | 172.8  |
| 37.5° | 3673.3 | 2130.8 | 423.7  | 330.4  | 294.8  | 249.6  | 205.7  | 174.1  | 153.6  | 144.0  | 142.6  |
| 40°   | 3831.0 | 2055.4 | 367.5  | 303.0  | 266.0  | 216.6  | 175.5  | 148.1  | 127.5  | 117.9  | 117.9  |
| 42.5° | 4131.3 | 2058.1 | 330.4  | 277.0  | 237.2  | 185.1  | 149.5  | 123.4  | 105.6  | 97.4   | 94.6   |
| 45°   | 4600.2 | 2151.4 | 298.9  | 250.9  | 209.8  | 160.4  | 127.5  | 101.5  | 83.6   | 76.8   | 76.8   |
| 47.5° | 5228.2 | 2336.5 | 271.5  | 224.9  | 185.1  | 137.1  | 108.3  | 82.3   | 67.2   | 60.3   | 60.3   |
| 50°   | 6049.6 | 2634.0 | 248.2  | 202.9  | 164.5  | 117.9  | 87.8   | 67.2   | 52.1   | 46.6   | 45.2   |
| 52.5° | 6907.9 | 3001.5 | 220.8  | 183.7  | 141.2  | 100.1  | 71.3   | 52.1   | 39.8   | 35.7   | 34.3   |
| 55°   | 7855.4 | 3360.7 | 194.7  | 164.5  | 115.2  | 83.6   | 56.2   | 41.1   | 28.8   | 24.7   | 24.7   |
| 57.5° | 8811.1 | 3713.1 | 163.2  | 137.1  | 90.5   | 61.7   | 43.9   | 30.2   | 19.2   | 15.1   | 15.1   |
| 60°   | 9620.1 | 3826.9 | 138.5  | 111.1  | 68.6   | 43.9   | 31.5   | 19.2   | 11.0   | 6.9    | 6.9    |
| 62.5° | 9731.1 | 3443.0 | 116.5  | 85.0   | 49.4   | 30.2   | 16.5   | 11.0   | 4.1    | 2.7    | 2.7    |
| 65°   | 9127.8 | 2797.2 | 97.4   | 64.4   | 32.9   | 15.1   | 6.9    | 4.1    | 1.4    | 0.0    | 0.0    |
| 67°   | 8179.0 | 2267.9 | 79.5   | 48.0   | 23.3   | 9.6    | 4.1    | 1.4    | 0.0    | 0.0    | 0.0    |
| 67.5° | 7936.3 | 2162.3 | 76.8   | 45.2   | 20.6   | 8.2    | 2.7    | 1.4    | 0.0    | 0.0    | 0.0    |
| 70°   | 6227.8 | 1619.3 | 54.8   | 27.4   | 12.3   | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 3870.8 | 915.9  | 39.8   | 16.5   | 8.2    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1463.0 | 320.9  | 27.4   | 11.0   | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 455.2  | 122.0  | 16.5   | 8.2    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 153.6  | 46.6   | 11.0   | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 94.6   | 19.2   | 6.9    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 59.0   | 8.2    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 11.0   | 2.7    | 1.4    | 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)