

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: P530935

Luminaire Tested: **GALN-SA6B-722-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-722-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14478 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

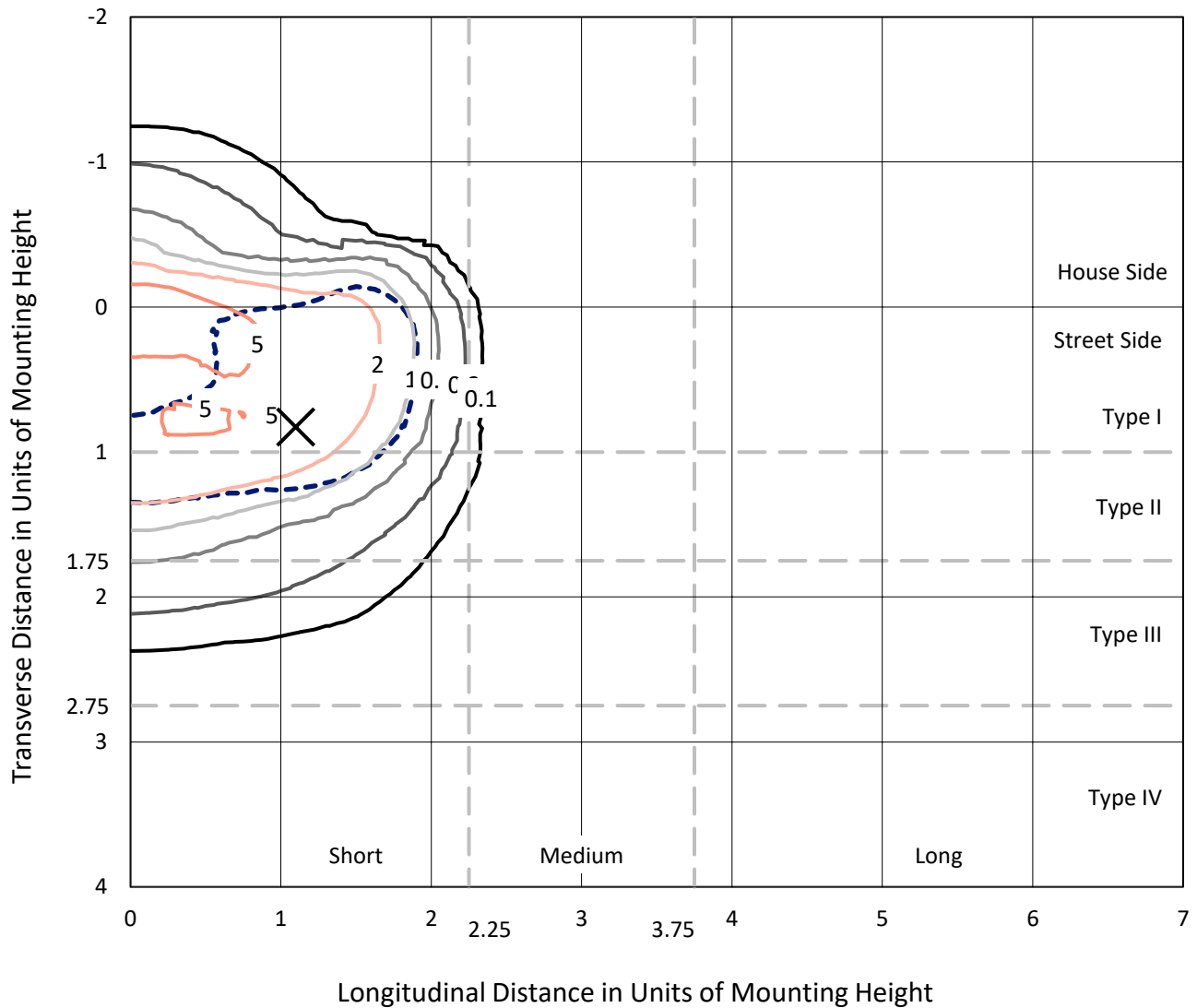
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

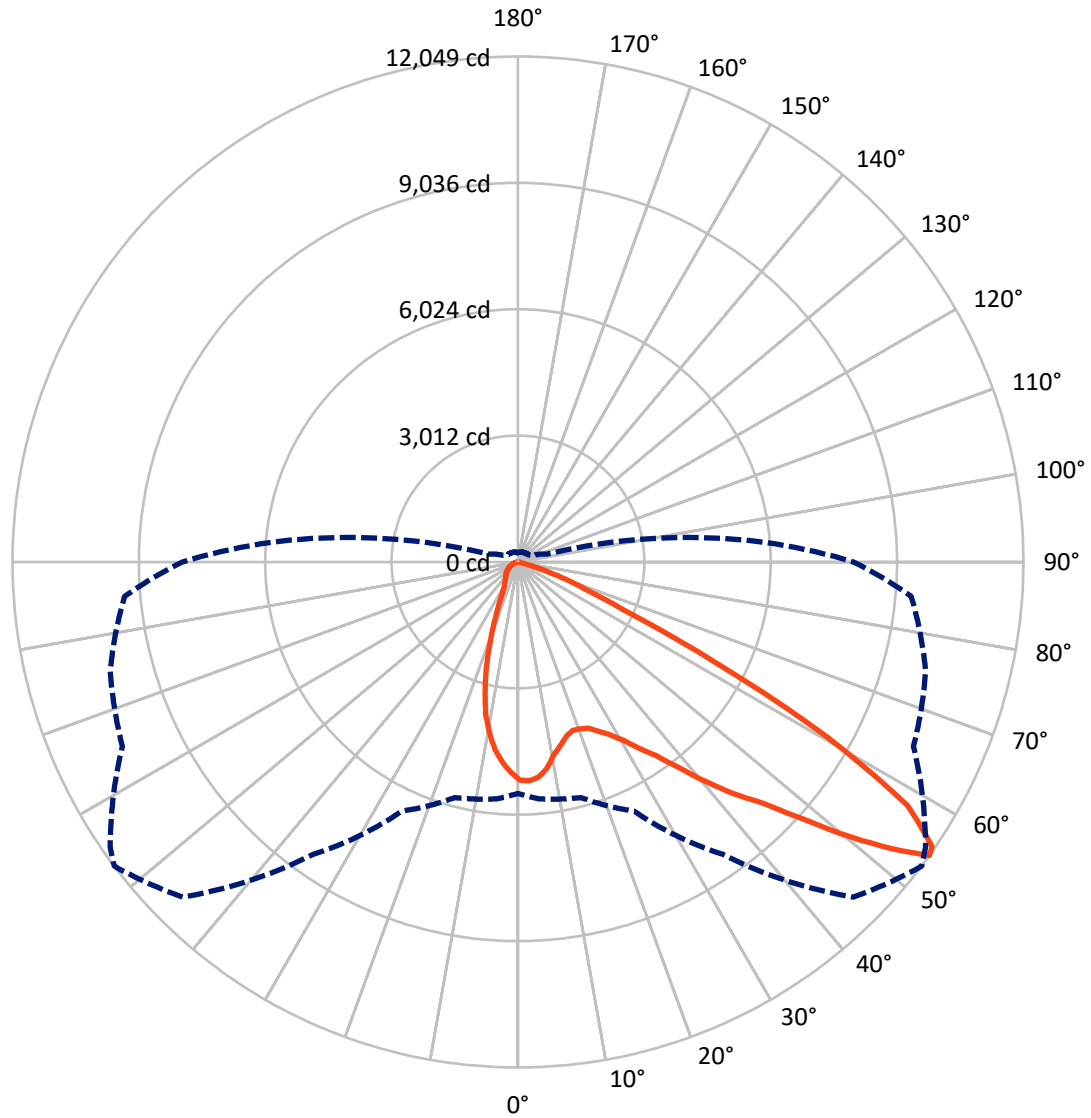
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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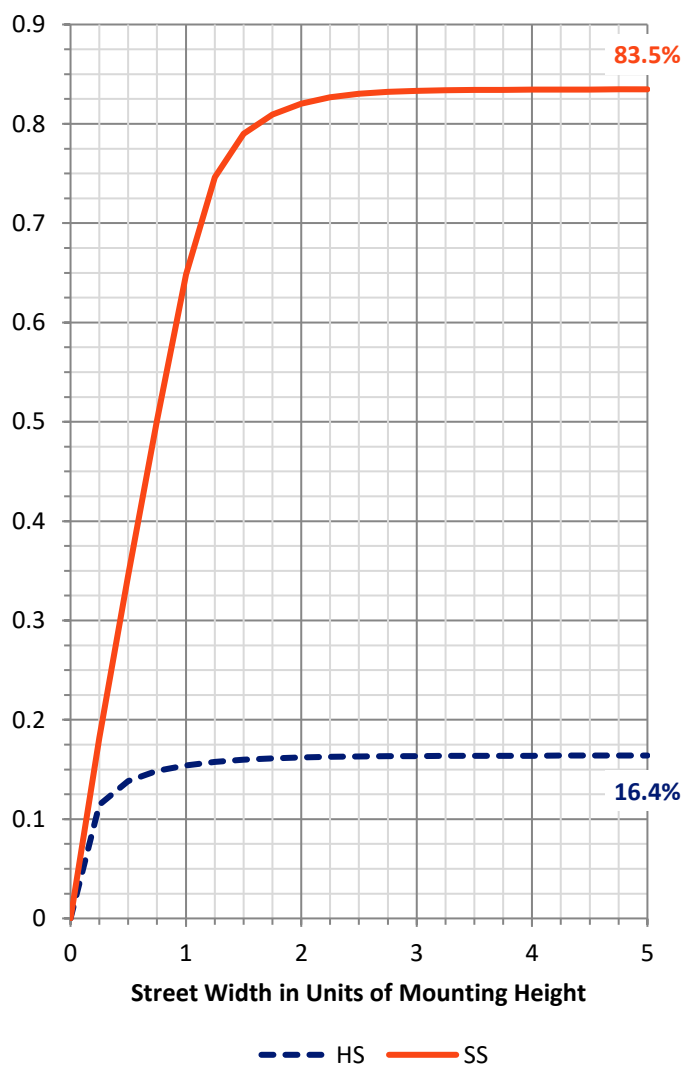
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2395.4   | 0.0    | 2395.4  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 12082.6  | 0.0    | 12082.6 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 14478.0  | 0.0    | 14478.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 446.2   | 3.1       |
| 10°-20°   | 1022.9  | 7.1       |
| 20°-30°   | 1453.8  | 10.0      |
| 30°-40°   | 2243.6  | 15.5      |
| 40°-50°   | 3517.7  | 24.3      |
| 50°-60°   | 4086.4  | 28.2      |
| 60°-70°   | 1544.1  | 10.7      |
| 70°-80°   | 146.8   | 1.0       |
| 80°-90°   | 16.5    | 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°    | 14478.0 | 100.0     |
| 0°-180°   | 14478.0 | 100.0     |

**Coefficient of Utilization**

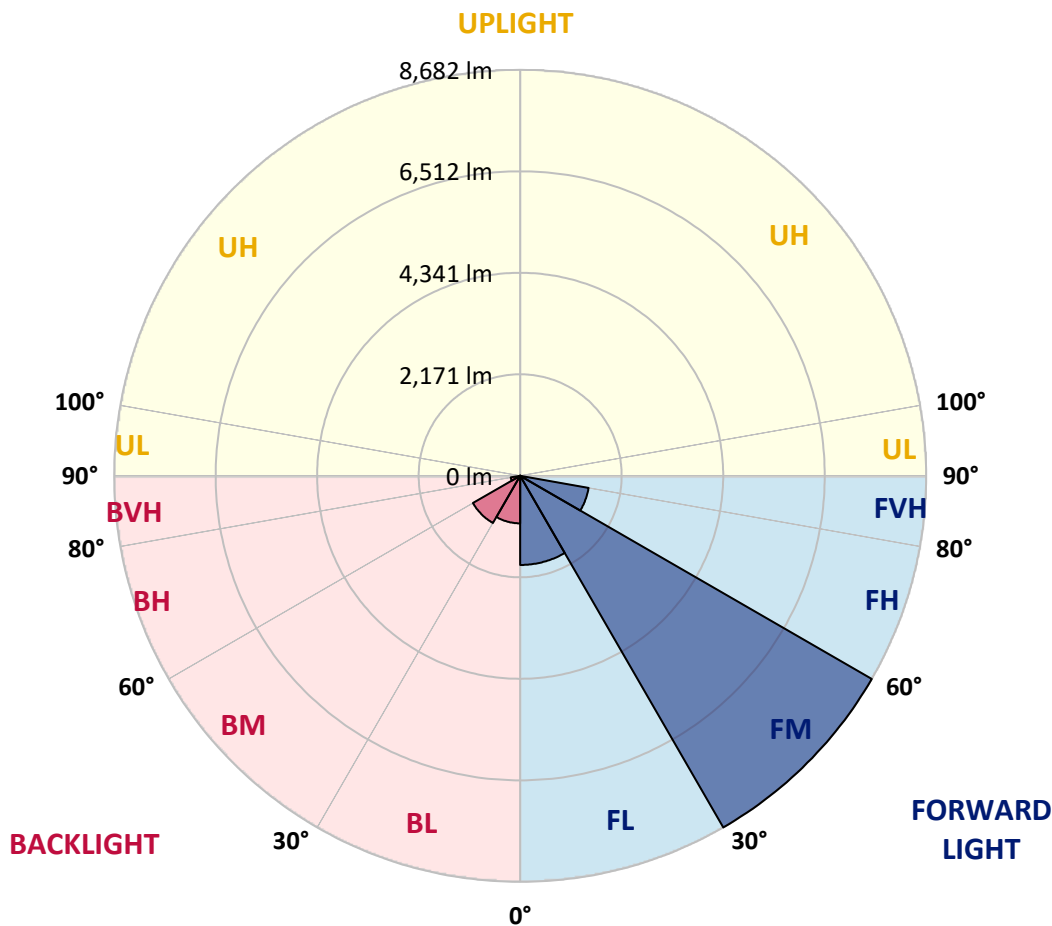


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1906.4 | 13.2      |                         |      |         |
| FM (30°-60°)   | 8682.0 | 60.0      |                         |      |         |
| FH (60°-80°)   | 1485.7 | 10.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 8.5    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 1016.5 | 7.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1165.7 | 8.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 205.2  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 8.0    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3  | 5200.3  | 5200.3  | 5200.3  | 5200.3  | 5200.3  | 5200.3  |
| 2.5°  | 5173.3 | 5127.4 | 5173.3 | 5178.7 | 5211.0  | 5240.7  | 5221.8  | 5265.0  | 5240.7  | 5213.7  | 5205.6  |
| 5°    | 4755.2 | 4817.2 | 4819.9 | 4917.0 | 4895.5  | 5073.5  | 5151.7  | 5130.1  | 5262.3  | 5254.2  | 5235.3  |
| 7.5°  | 4380.3 | 4356.0 | 4388.4 | 4501.7 | 4644.6  | 4849.6  | 4962.9  | 4960.2  | 5149.0  | 5283.9  | 5270.4  |
| 10°   | 4032.4 | 4029.7 | 4097.1 | 4186.1 | 4307.5  | 4523.2  | 4679.7  | 4757.9  | 5051.9  | 5256.9  | 5286.6  |
| 12.5° | 3797.7 | 3786.9 | 3859.7 | 3932.6 | 4124.1  | 4291.3  | 4490.9  | 4528.6  | 4865.8  | 5162.5  | 5211.0  |
| 15°   | 3644.0 | 3668.2 | 3673.6 | 3813.9 | 3935.3  | 4156.4  | 4312.9  | 4391.1  | 4779.5  | 5087.0  | 5273.1  |
| 17.5° | 3617.0 | 3649.3 | 3652.0 | 3768.0 | 3897.5  | 4083.6  | 4221.2  | 4326.4  | 4706.7  | 5124.7  | 5275.8  |
| 20°   | 3670.9 | 3652.0 | 3668.2 | 3741.1 | 3867.8  | 4045.8  | 4245.4  | 4280.5  | 4682.4  | 5143.6  | 5305.4  |
| 22.5° | 3824.7 | 3819.3 | 3778.8 | 3838.2 | 3927.2  | 4113.3  | 4302.1  | 4356.0  | 4752.5  | 5240.7  | 5329.7  |
| 25°   | 3994.6 | 4024.3 | 3986.5 | 3978.4 | 4040.4  | 4223.9  | 4474.7  | 4544.8  | 4987.2  | 5416.0  | 5405.2  |
| 27.5° | 4312.9 | 4283.2 | 4283.2 | 4245.4 | 4229.3  | 4318.3  | 4660.8  | 4776.8  | 5248.8  | 5642.6  | 5491.6  |
| 30°   | 4617.7 | 4650.0 | 4625.7 | 4639.2 | 4531.3  | 4523.2  | 4925.1  | 5068.1  | 5712.7  | 5987.8  | 5675.0  |
| 32.5° | 5100.5 | 5057.3 | 5097.8 | 5062.7 | 4919.7  | 4774.1  | 5283.9  | 5432.2  | 6273.7  | 6384.3  | 5950.1  |
| 35°   | 5502.3 | 5483.5 | 5656.1 | 5650.7 | 5418.7  | 5275.8  | 5664.2  | 5885.3  | 6664.8  | 6859.0  | 6273.7  |
| 37.5° | 6074.2 | 6039.1 | 6236.0 | 6330.4 | 6122.7  | 5909.6  | 6209.0  | 6465.3  | 7029.0  | 7239.4  | 6605.5  |
| 40°   | 6662.2 | 6751.2 | 7015.5 | 7171.9 | 6950.8  | 6667.5  | 6875.2  | 6953.5  | 7271.7  | 7487.5  | 6832.1  |
| 42.5° | 7406.6 | 7536.1 | 7805.8 | 7940.6 | 7921.8  | 7614.3  | 7552.2  | 7549.5  | 7447.0  | 7417.4  | 6999.3  |
| 45°   | 8121.4 | 8072.8 | 8488.2 | 8782.2 | 9019.5  | 8930.5  | 8205.0  | 8124.0  | 7724.9  | 7522.6  | 7042.5  |
| 47.5° | 8434.2 | 8418.0 | 8701.3 | 9224.5 | 10033.7 | 10144.3 | 9154.4  | 8841.5  | 8194.2  | 7964.9  | 7277.1  |
| 50°   | 8029.6 | 8113.3 | 8393.8 | 8973.7 | 10214.4 | 11058.6 | 10319.6 | 9898.8  | 8741.7  | 8504.4  | 7832.7  |
| 52.5° | 6708.0 | 6764.6 | 7031.7 | 7768.0 | 9599.4  | 11598.1 | 11436.2 | 11193.5 | 9747.8  | 9354.0  | 8801.1  |
| 54°   | 5515.8 | 5666.9 | 5812.5 | 6551.6 | 8504.4  | 11298.7 | 12048.5 | 11862.4 | 10403.2 | 10060.7 | 9410.6  |
| 55°   | 4803.8 | 4892.8 | 4998.0 | 5734.3 | 7746.4  | 10791.6 | 11978.4 | 11994.6 | 10842.9 | 10281.8 | 9820.6  |
| 57.5° | 3509.1 | 3571.1 | 3463.2 | 3789.6 | 5318.9  | 8763.3  | 10956.1 | 11393.1 | 11436.2 | 10613.6 | 10071.4 |
| 60°   | 2681.0 | 2708.0 | 2586.6 | 2637.9 | 3306.8  | 6014.8  | 8474.7  | 9000.6  | 10316.9 | 9275.8  | 8531.3  |
| 62.5° | 2079.6 | 2085.0 | 2082.3 | 2171.3 | 2279.2  | 3538.8  | 5300.1  | 5766.7  | 7112.6  | 6586.6  | 5793.6  |
| 65°   | 1532.0 | 1507.7 | 1550.9 | 1820.6 | 1944.7  | 2225.2  | 2791.6  | 3131.5  | 3865.1  | 3263.6  | 2333.1  |
| 67.5° | 992.6  | 1000.7 | 1043.8 | 1354.0 | 1666.9  | 1707.3  | 1718.1  | 1691.2  | 1693.9  | 933.2   | 585.3   |
| 70°   | 596.1  | 609.6  | 596.1  | 766.0  | 1192.2  | 1224.5  | 1119.3  | 1092.4  | 852.3   | 221.2   | 218.5   |
| 72.5° | 353.3  | 334.5  | 299.4  | 329.1  | 496.3   | 593.4   | 534.1   | 531.4   | 334.5   | 129.5   | 129.5   |
| 75°   | 148.3  | 134.9  | 110.6  | 99.8   | 132.2   | 126.8   | 126.8   | 113.3   | 89.0    | 86.3    | 80.9    |
| 77.5° | 29.7   | 29.7   | 21.6   | 24.3   | 32.4    | 37.8    | 45.9    | 45.9    | 53.9    | 53.9    | 51.2    |
| 80°   | 0.0    | 2.7    | 8.1    | 16.2   | 24.3    | 35.1    | 40.5    | 40.5    | 45.9    | 45.9    | 37.8    |
| 82.5° | 0.0    | 2.7    | 8.1    | 16.2   | 21.6    | 32.4    | 40.5    | 40.5    | 45.9    | 48.6    | 40.5    |
| 85°   | 0.0    | 2.7    | 8.1    | 13.5   | 21.6    | 27.0    | 27.0    | 24.3    | 18.9    | 16.2    | 10.8    |
| 87.5° | 0.0    | 0.0    | 2.7    | 5.4    | 2.7     | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     |
| 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°    | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3 | 5200.3 |
| 2.5°  | 5224.5 | 5221.8 | 5157.1 | 5051.9 | 5027.6 | 4938.6 | 4927.8 | 4873.9 | 4903.6 | 4803.8 | 4793.0 |
| 5°    | 5181.4 | 5149.0 | 5070.8 | 5003.4 | 4806.5 | 4666.2 | 4555.6 | 4420.8 | 4342.5 | 4356.0 | 4304.8 |
| 7.5°  | 5243.4 | 5159.8 | 5022.2 | 4787.6 | 4547.5 | 4302.1 | 4169.9 | 3894.8 | 3795.0 | 3646.7 | 3625.1 |
| 10°   | 5178.7 | 5116.6 | 4903.6 | 4515.2 | 4183.4 | 3830.1 | 3519.9 | 3215.1 | 2983.1 | 2883.3 | 2861.8 |
| 12.5° | 5173.3 | 5065.4 | 4709.4 | 4277.8 | 3797.7 | 3290.6 | 2840.2 | 2459.9 | 2230.6 | 2101.1 | 2071.5 |
| 15°   | 5089.7 | 4960.2 | 4490.9 | 3911.0 | 3247.5 | 2616.3 | 2125.4 | 1758.6 | 1583.3 | 1507.7 | 1529.3 |
| 17.5° | 5097.8 | 4903.6 | 4272.4 | 3522.6 | 2705.3 | 1920.4 | 1451.1 | 1262.3 | 1216.4 | 1235.3 | 1235.3 |
| 20°   | 5089.7 | 4776.8 | 4008.1 | 3074.8 | 2071.5 | 1332.4 | 1065.4 | 998.0  | 1027.6 | 1087.0 | 1073.5 |
| 22.5° | 5046.5 | 4717.4 | 3765.3 | 2602.8 | 1523.9 | 987.2  | 855.0  | 857.7  | 903.6  | 976.4  | 992.6  |
| 25°   | 5078.9 | 4585.3 | 3457.8 | 2125.4 | 1111.3 | 787.6  | 741.7  | 760.6  | 809.2  | 863.1  | 873.9  |
| 27.5° | 5054.6 | 4490.9 | 3136.9 | 1650.7 | 811.9  | 677.0  | 674.3  | 695.9  | 717.5  | 757.9  | 757.9  |
| 30°   | 5081.6 | 4404.6 | 2821.3 | 1227.2 | 668.9  | 620.4  | 609.6  | 625.8  | 647.3  | 655.4  | 652.7  |
| 32.5° | 5181.4 | 4339.8 | 2457.2 | 917.1  | 590.7  | 566.4  | 566.4  | 566.4  | 563.7  | 574.5  | 577.2  |
| 35°   | 5399.8 | 4350.6 | 2136.2 | 709.4  | 539.4  | 520.6  | 512.5  | 501.7  | 496.3  | 501.7  | 504.4  |
| 37.5° | 5637.2 | 4345.2 | 1804.4 | 604.2  | 501.7  | 485.5  | 466.6  | 450.4  | 447.7  | 453.1  | 445.0  |
| 40°   | 5742.4 | 4396.5 | 1497.0 | 542.1  | 466.6  | 447.7  | 418.1  | 404.6  | 407.3  | 412.7  | 407.3  |
| 42.5° | 5885.3 | 4412.7 | 1297.4 | 493.6  | 434.3  | 404.6  | 385.7  | 369.5  | 366.8  | 374.9  | 372.2  |
| 45°   | 5882.7 | 4321.0 | 1087.0 | 466.6  | 404.6  | 372.2  | 347.9  | 334.5  | 334.5  | 339.9  | 342.5  |
| 47.5° | 6055.3 | 4307.5 | 933.2  | 442.3  | 383.0  | 350.6  | 321.0  | 310.2  | 307.5  | 307.5  | 302.1  |
| 50°   | 6457.2 | 4496.3 | 814.6  | 415.4  | 356.0  | 326.4  | 302.1  | 288.6  | 277.8  | 272.4  | 269.7  |
| 52.5° | 7242.1 | 5084.3 | 722.9  | 383.0  | 326.4  | 302.1  | 280.5  | 269.7  | 256.2  | 242.8  | 240.1  |
| 54°   | 8002.7 | 5691.1 | 717.5  | 356.0  | 302.1  | 285.9  | 267.0  | 261.6  | 245.4  | 226.6  | 221.2  |
| 55°   | 8345.2 | 6044.5 | 736.3  | 334.5  | 285.9  | 275.1  | 258.9  | 253.5  | 237.4  | 215.8  | 213.1  |
| 57.5° | 8628.4 | 6182.0 | 725.6  | 277.8  | 258.9  | 256.2  | 242.8  | 234.7  | 215.8  | 186.1  | 180.7  |
| 60°   | 6945.4 | 4674.3 | 520.6  | 245.4  | 237.4  | 232.0  | 221.2  | 215.8  | 191.5  | 159.1  | 156.4  |
| 62.5° | 4388.4 | 2689.1 | 331.8  | 215.8  | 207.7  | 199.6  | 186.1  | 180.7  | 159.1  | 126.8  | 118.7  |
| 65°   | 1869.2 | 1114.0 | 223.9  | 191.5  | 178.0  | 164.5  | 153.7  | 145.7  | 126.8  | 94.4   | 91.7   |
| 67.5° | 485.5  | 396.5  | 186.1  | 167.2  | 148.3  | 129.5  | 121.4  | 107.9  | 86.3   | 64.7   | 62.0   |
| 70°   | 218.5  | 199.6  | 156.4  | 140.3  | 118.7  | 99.8   | 89.0   | 75.5   | 56.6   | 43.2   | 40.5   |
| 72.5° | 129.5  | 126.8  | 118.7  | 105.2  | 89.0   | 75.5   | 64.7   | 51.2   | 37.8   | 24.3   | 24.3   |
| 75°   | 80.9   | 78.2   | 80.9   | 72.8   | 62.0   | 56.6   | 48.6   | 35.1   | 21.6   | 10.8   | 10.8   |
| 77.5° | 48.6   | 48.6   | 48.6   | 45.9   | 43.2   | 43.2   | 35.1   | 21.6   | 10.8   | 2.7    | 2.7    |
| 80°   | 37.8   | 37.8   | 40.5   | 37.8   | 37.8   | 37.8   | 29.7   | 16.2   | 5.4    | 0.0    | 0.0    |
| 82.5° | 37.8   | 40.5   | 45.9   | 43.2   | 37.8   | 32.4   | 27.0   | 16.2   | 5.4    | 0.0    | 0.0    |
| 85°   | 10.8   | 8.1    | 13.5   | 18.9   | 27.0   | 24.3   | 18.9   | 13.5   | 5.4    | 0.0    | 0.0    |
| 87.5° | 5.4    | 5.4    | 5.4    | 5.4    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 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    | 0.0    |

(END OF REPORT)