

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: P383433

Luminaire Tested: **GLEON-SA7B-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7B-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38499 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

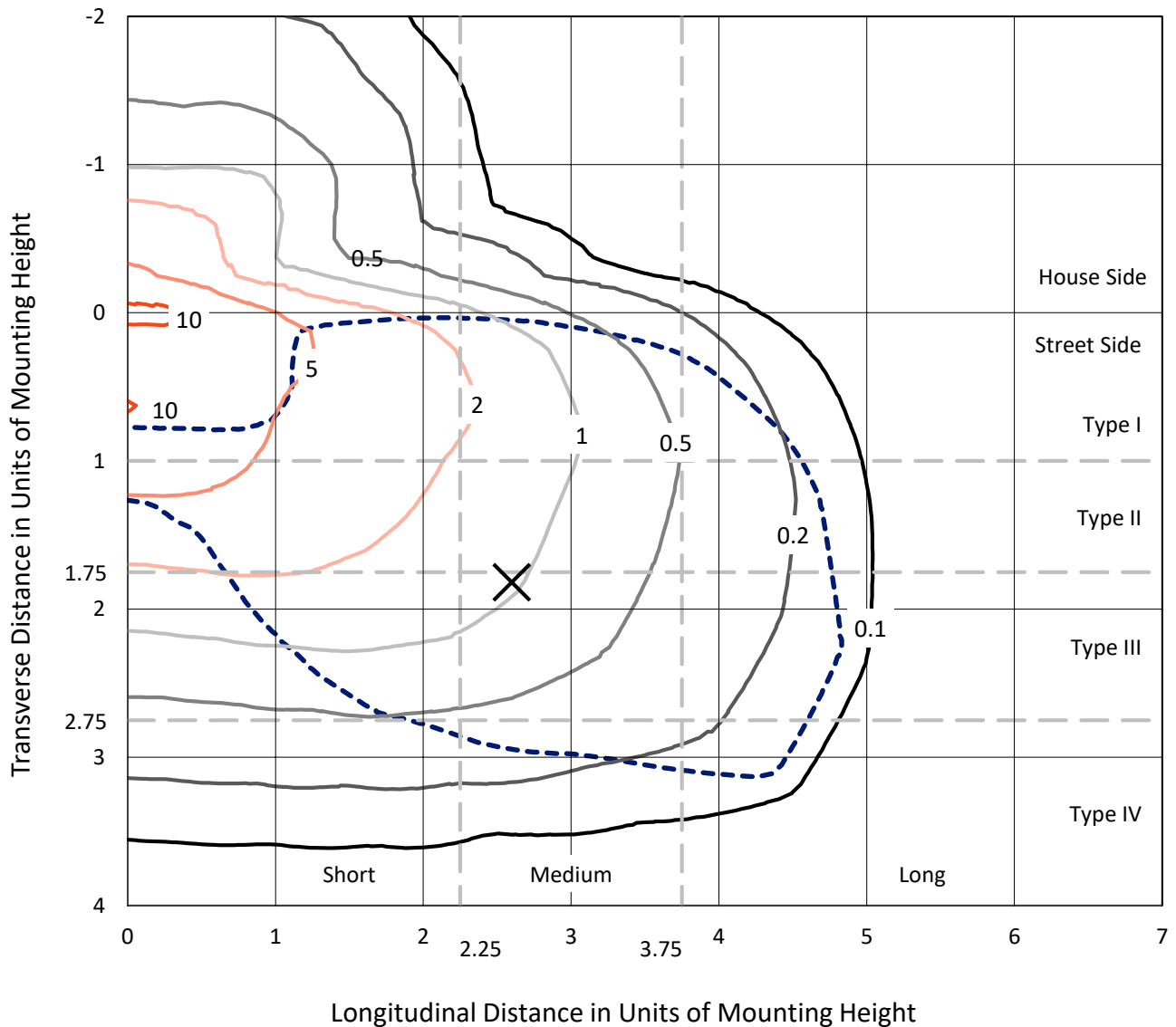
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

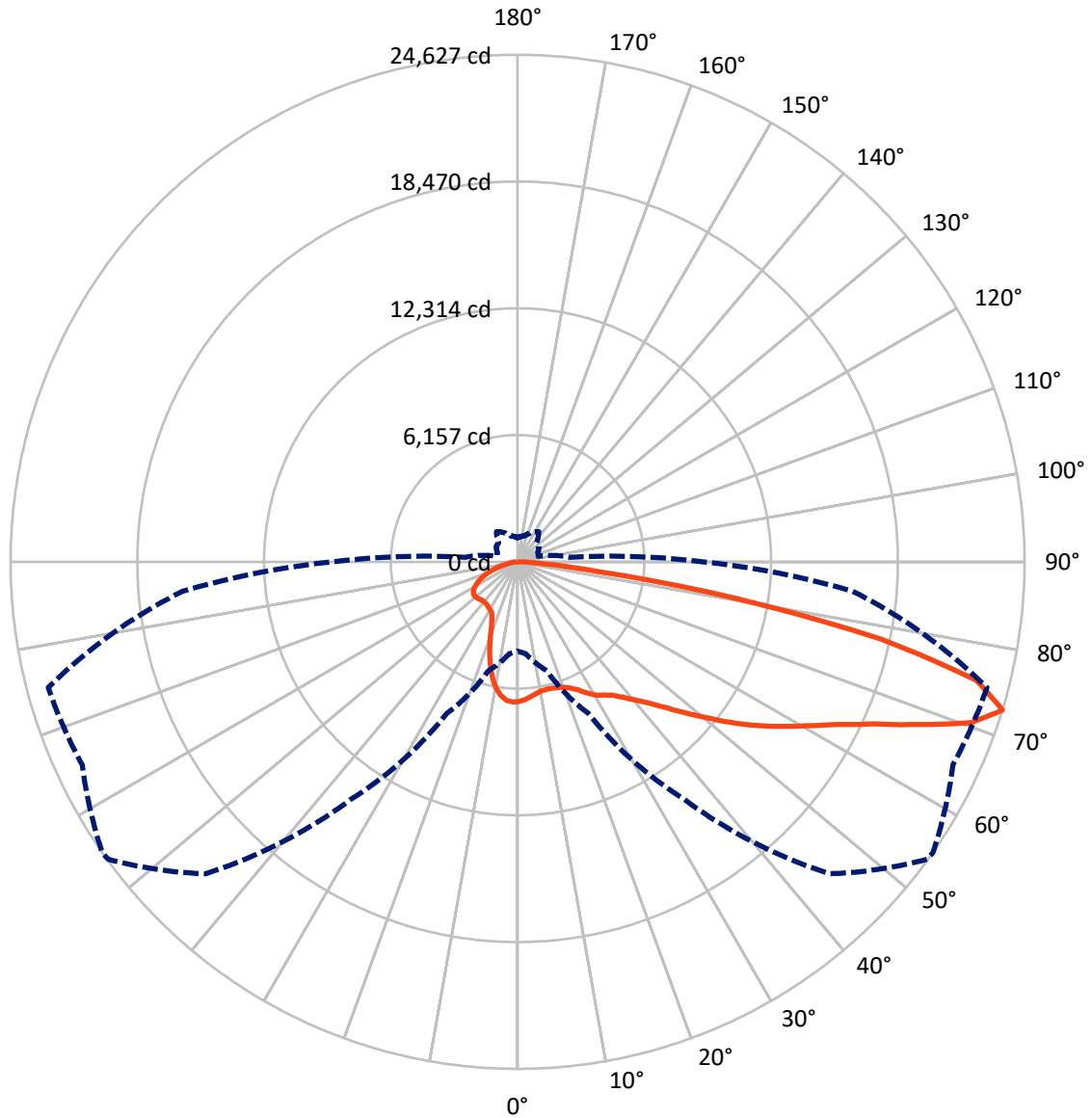
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7155.7   | 0.0    | 7155.7  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 31343.3  | 0.0    | 31343.3 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 38499.0  | 0.0    | 38499.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 614.4   | 1.6       |
| 10°-20°   | 1635.9  | 4.2       |
| 20°-30°   | 2697.2  | 7.0       |
| 30°-40°   | 3989.8  | 10.4      |
| 40°-50°   | 5568.9  | 14.5      |
| 50°-60°   | 7250.9  | 18.8      |
| 60°-70°   | 8911.2  | 23.1      |
| 70°-80°   | 6985.3  | 18.1      |
| 80°-90°   | 845.3   | 2.2       |
| 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°    | 38499.0 | 100.0     |
| 0°-180°   | 38499.0 | 100.0     |

**Coefficient of Utilization**

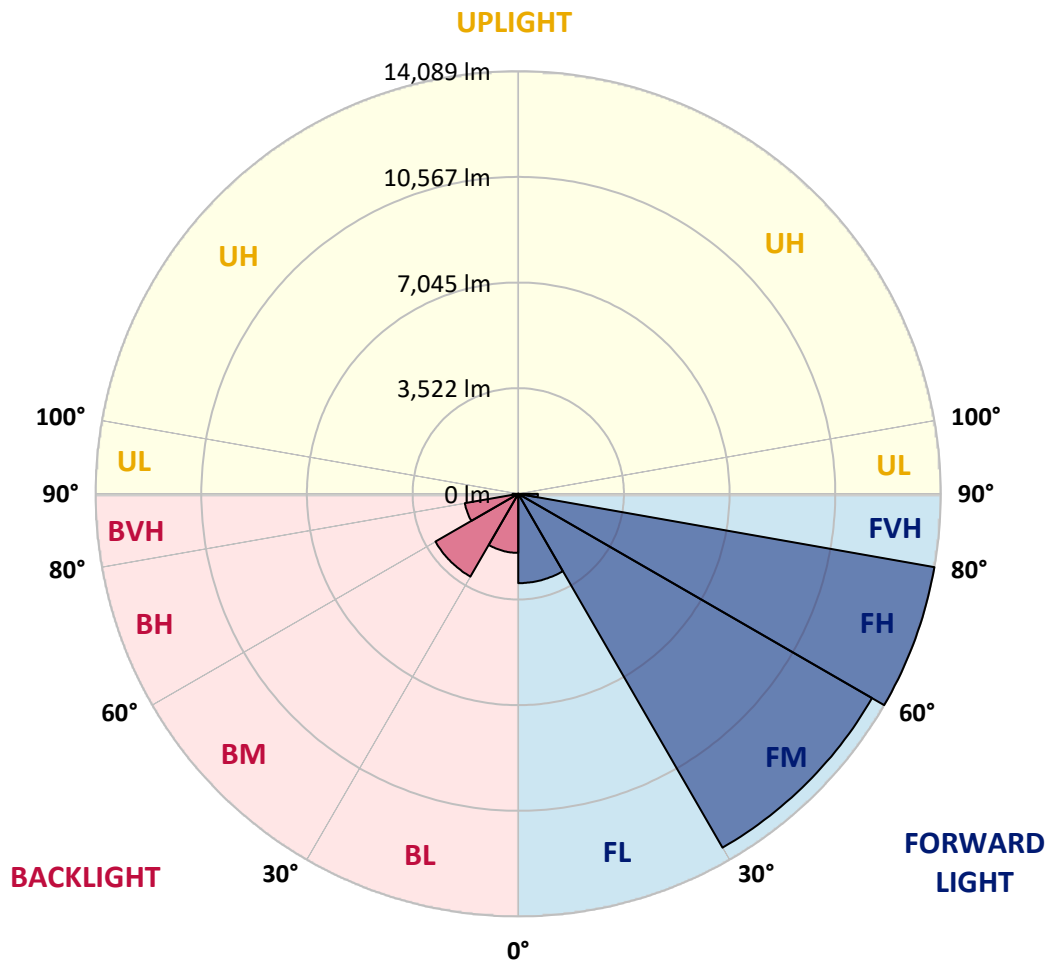


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2978.7  | 7.7       |                         |      |         |
| FM (30°-60°)   | 13621.7 | 35.4      |                         |      |         |
| FH (60°-80°)   | 14089.3 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 653.6   | 1.7       |                         |      | G4/750  |
| BL (0°-30°)    | 1968.8  | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 3188.0  | 8.3       | B3/5000                 |      |         |
| BH (60°-80°)   | 1807.1  | 4.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 191.8   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6790.4  | 6790.4  | 6790.4  | 6790.4  | 6790.4  | 6790.4  | 6790.4  | 6790.4  | 6790.4  | 6790.4  | 6790.4  |
| 2.5°  | 6569.4  | 6553.7  | 6573.3  | 6600.6  | 6630.5  | 6670.7  | 6694.2  | 6704.5  | 6744.9  | 6760.5  | 6794.3  |
| 5°    | 6265.0  | 6257.3  | 6289.7  | 6336.6  | 6402.9  | 6496.5  | 6572.0  | 6586.2  | 6692.9  | 6768.3  | 6837.2  |
| 7.5°  | 6044.0  | 6044.0  | 6081.7  | 6137.6  | 6211.7  | 6337.9  | 6444.5  | 6464.0  | 6644.7  | 6807.3  | 6934.7  |
| 10°   | 5868.5  | 5875.0  | 5919.1  | 5985.5  | 6072.6  | 6206.5  | 6348.3  | 6370.4  | 6631.8  | 6898.3  | 7101.2  |
| 12.5° | 5751.4  | 5767.0  | 5807.4  | 5867.2  | 5975.0  | 6137.6  | 6317.1  | 6347.0  | 6659.1  | 7028.3  | 7301.5  |
| 15°   | 5825.5  | 5851.5  | 5855.4  | 5880.1  | 5940.0  | 6116.8  | 6335.3  | 6366.5  | 6717.6  | 7161.0  | 7529.0  |
| 17.5° | 6150.6  | 6159.8  | 6119.4  | 6067.4  | 6038.8  | 6151.9  | 6389.9  | 6422.4  | 6787.8  | 7292.3  | 7747.4  |
| 20°   | 6644.7  | 6639.5  | 6552.4  | 6412.0  | 6266.3  | 6284.6  | 6479.7  | 6513.4  | 6882.7  | 7408.0  | 7965.9  |
| 22.5° | 7269.0  | 7250.7  | 7116.7  | 6858.1  | 6609.6  | 6505.6  | 6637.0  | 6665.6  | 7025.7  | 7573.2  | 8199.9  |
| 25°   | 8025.7  | 7985.4  | 7808.6  | 7461.4  | 7096.0  | 6828.2  | 6873.6  | 6900.9  | 7233.8  | 7757.8  | 8414.5  |
| 27.5° | 8824.2  | 8783.8  | 8558.9  | 8138.8  | 7652.5  | 7235.1  | 7200.0  | 7223.4  | 7470.5  | 7894.4  | 8573.1  |
| 30°   | 9658.9  | 9616.1  | 9410.6  | 8939.9  | 8242.9  | 7656.4  | 7504.3  | 7513.4  | 7636.9  | 7968.6  | 8703.2  |
| 32.5° | 10497.7 | 10457.4 | 10227.2 | 9681.0  | 8884.0  | 8108.9  | 7724.0  | 7712.4  | 7737.1  | 8045.2  | 8850.2  |
| 35°   | 11348.1 | 11363.7 | 11094.5 | 10489.9 | 9593.9  | 8612.2  | 7984.1  | 7959.4  | 7904.8  | 8202.6  | 9058.2  |
| 37.5° | 12258.3 | 12247.9 | 11899.4 | 11267.4 | 10336.5 | 9158.3  | 8357.3  | 8353.4  | 8164.8  | 8500.4  | 9384.6  |
| 40°   | 12866.9 | 12873.4 | 12661.4 | 12063.3 | 11086.7 | 9763.0  | 8835.8  | 8826.7  | 8579.6  | 8946.4  | 9812.4  |
| 42.5° | 13104.8 | 13147.8 | 13202.4 | 12822.7 | 11872.1 | 10463.9 | 9406.7  | 9393.7  | 9158.3  | 9586.1  | 10315.6 |
| 45°   | 13121.8 | 13207.6 | 13545.7 | 13497.6 | 12667.9 | 11266.1 | 10136.2 | 10099.7 | 9930.8  | 10436.6 | 10916.3 |
| 47.5° | 12976.1 | 13064.6 | 13626.3 | 13899.3 | 13379.3 | 12112.7 | 10989.2 | 10960.6 | 10815.0 | 11500.2 | 11566.6 |
| 50°   | 12657.6 | 12742.1 | 13459.8 | 14095.7 | 13964.4 | 12926.7 | 11972.2 | 11896.9 | 11818.8 | 12729.0 | 12310.3 |
| 52.5° | 12060.7 | 12223.2 | 13237.5 | 14142.6 | 14314.2 | 13649.7 | 13006.1 | 12956.6 | 12999.6 | 14025.5 | 13055.5 |
| 55°   | 10647.2 | 10829.2 | 12664.0 | 14103.5 | 14572.9 | 14257.0 | 14039.8 | 14037.2 | 14259.6 | 15385.6 | 13855.2 |
| 57.5° | 9855.3  | 9984.0  | 11496.3 | 14037.2 | 14879.8 | 14860.3 | 15063.2 | 15087.9 | 15520.9 | 16866.8 | 14692.6 |
| 60°   | 9408.0  | 9543.2  | 10904.7 | 13791.5 | 15355.7 | 15640.5 | 16107.4 | 16156.8 | 16803.1 | 18506.5 | 15700.4 |
| 62.5° | 9001.0  | 9149.2  | 10537.9 | 13290.9 | 15916.2 | 16756.2 | 17358.3 | 17402.5 | 18160.6 | 20191.8 | 16674.3 |
| 65°   | 8305.3  | 8473.1  | 10000.9 | 12961.8 | 16426.0 | 18211.3 | 18948.6 | 18978.5 | 19719.7 | 21957.6 | 17419.4 |
| 67.5° | 7322.2  | 7475.7  | 8987.9  | 12234.9 | 16803.1 | 19978.4 | 21062.9 | 21079.9 | 21265.8 | 23204.7 | 17800.4 |
| 70°   | 6174.0  | 6232.5  | 7544.6  | 10734.3 | 16357.0 | 21631.2 | 23380.2 | 23384.1 | 22675.4 | 24003.0 | 17738.0 |
| 72.5° | 4337.9  | 4475.8  | 5477.0  | 8125.9  | 14056.7 | 21429.7 | 24583.0 | 24627.2 | 23330.8 | 23599.9 | 16320.6 |
| 75°   | 2660.5  | 2806.1  | 3435.5  | 4924.4  | 8917.8  | 16853.7 | 22713.1 | 23020.0 | 22101.9 | 21042.2 | 13332.4 |
| 77.5° | 1778.9  | 1833.5  | 2241.8  | 2871.1  | 4040.1  | 9696.7  | 17462.3 | 18039.7 | 18360.9 | 15345.4 | 8526.4  |
| 80°   | 992.2   | 1096.2  | 1486.3  | 1784.1  | 1797.0  | 3852.9  | 10470.4 | 10605.6 | 10215.5 | 6110.3  | 2630.6  |
| 82.5° | 525.3   | 582.6   | 992.2   | 1048.1  | 980.5   | 1289.9  | 3902.3  | 3906.3  | 3263.9  | 1638.4  | 781.5   |
| 85°   | 407.0   | 455.2   | 680.1   | 639.8   | 500.6   | 572.2   | 1287.3  | 1357.5  | 1110.5  | 671.0   | 254.9   |
| 87.5° | 202.9   | 252.3   | 461.6   | 405.7   | 196.4   | 163.9   | 460.3   | 491.5   | 438.2   | 262.7   | 92.3    |
| 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°    | 6790.4  | 6790.4 | 6790.4 | 6790.4 | 6790.4 | 6790.4 | 6790.4 | 6790.4 | 6790.4 | 6790.4 | 6790.4 |
| 2.5°  | 6807.3  | 6819.0 | 6833.3 | 6817.7 | 6812.5 | 6791.7 | 6756.6 | 6748.8 | 6730.6 | 6731.9 | 6742.3 |
| 5°    | 6867.1  | 6886.7 | 6878.8 | 6819.0 | 6747.5 | 6647.3 | 6543.3 | 6454.9 | 6396.4 | 6392.5 | 6388.6 |
| 7.5°  | 6981.6  | 6994.5 | 6933.4 | 6763.1 | 6562.8 | 6331.4 | 6112.9 | 5921.8 | 5806.1 | 5777.5 | 5770.9 |
| 10°   | 7161.0  | 7158.4 | 6990.6 | 6647.3 | 6248.2 | 5834.7 | 5483.6 | 5218.3 | 5063.5 | 5018.1 | 5006.3 |
| 12.5° | 7361.3  | 7331.4 | 7010.2 | 6436.7 | 5803.4 | 5230.0 | 4785.3 | 4490.1 | 4328.8 | 4276.8 | 4263.8 |
| 15°   | 7568.0  | 7493.8 | 6962.0 | 6122.0 | 5257.3 | 4578.6 | 4111.7 | 3838.6 | 3751.5 | 3722.9 | 3717.7 |
| 17.5° | 7760.4  | 7617.5 | 6824.2 | 5695.5 | 4634.4 | 3929.6 | 3565.5 | 3456.3 | 3477.1 | 3514.8 | 3516.1 |
| 20°   | 7949.0  | 7700.6 | 6603.2 | 5157.1 | 3977.7 | 3395.2 | 3271.7 | 3352.3 | 3451.1 | 3527.9 | 3538.2 |
| 22.5° | 8134.9  | 7759.1 | 6318.4 | 4535.6 | 3390.0 | 3094.8 | 3182.0 | 3328.9 | 3442.0 | 3525.3 | 3539.5 |
| 25°   | 8291.0  | 7773.5 | 5925.7 | 3872.4 | 2981.7 | 2981.7 | 3139.0 | 3278.2 | 3390.0 | 3471.9 | 3486.2 |
| 27.5° | 8348.3  | 7677.3 | 5371.7 | 3258.6 | 2776.2 | 2929.7 | 3079.2 | 3194.9 | 3289.9 | 3377.0 | 3392.6 |
| 30°   | 8370.3  | 7499.1 | 4732.0 | 2765.9 | 2691.7 | 2873.7 | 2998.6 | 3097.4 | 3187.1 | 3269.1 | 3283.3 |
| 32.5° | 8374.2  | 7284.5 | 4053.2 | 2486.3 | 2633.2 | 2815.2 | 2898.5 | 2985.6 | 3081.8 | 3114.3 | 3119.6 |
| 35°   | 8398.9  | 7030.9 | 3338.0 | 2343.2 | 2578.6 | 2760.6 | 2827.0 | 2889.4 | 2733.3 | 2745.0 | 2755.4 |
| 37.5° | 8470.5  | 6780.0 | 2739.9 | 2262.6 | 2543.5 | 2732.0 | 2811.3 | 2585.0 | 2462.8 | 2434.2 | 2430.3 |
| 40°   | 8604.3  | 6512.1 | 2296.5 | 2197.6 | 2530.5 | 2746.3 | 2711.2 | 2413.5 | 2202.7 | 2045.4 | 2022.0 |
| 42.5° | 8790.4  | 6223.5 | 2012.9 | 2154.7 | 2539.6 | 2815.2 | 2572.1 | 2248.3 | 1898.5 | 1797.0 | 1784.1 |
| 45°   | 8999.7  | 5920.5 | 1859.5 | 2124.8 | 2570.8 | 2868.5 | 2543.5 | 2028.5 | 1756.8 | 1680.0 | 1673.5 |
| 47.5° | 9202.6  | 5549.9 | 1780.2 | 2111.7 | 2613.7 | 2825.7 | 2422.6 | 1960.9 | 1689.2 | 1648.8 | 1652.8 |
| 50°   | 9435.3  | 5215.6 | 1732.0 | 2097.5 | 2651.4 | 2798.4 | 2286.0 | 1925.8 | 1663.2 | 1712.6 | 1764.5 |
| 52.5° | 9631.6  | 4869.8 | 1689.2 | 2068.9 | 2665.7 | 2750.2 | 2250.9 | 1932.3 | 1663.2 | 1758.1 | 1807.5 |
| 55°   | 9864.4  | 4608.5 | 1639.7 | 2009.1 | 2638.4 | 2613.7 | 2226.2 | 1971.3 | 1682.7 | 1622.8 | 1628.1 |
| 57.5° | 10164.8 | 4522.6 | 1585.1 | 1915.4 | 2547.4 | 2414.8 | 2214.5 | 2009.1 | 1670.9 | 1633.2 | 1646.2 |
| 60°   | 10580.9 | 4613.6 | 1563.0 | 1793.1 | 2405.6 | 2258.7 | 2215.8 | 1989.5 | 1589.0 | 1524.0 | 1525.3 |
| 62.5° | 10977.5 | 4715.0 | 1561.7 | 1716.5 | 2231.4 | 2119.6 | 2185.9 | 1925.8 | 1547.4 | 1509.7 | 1524.0 |
| 65°   | 11107.5 | 4612.3 | 1499.3 | 1630.7 | 2035.1 | 1953.1 | 2131.3 | 1858.2 | 1516.2 | 1459.0 | 1456.4 |
| 67.5° | 10933.3 | 4293.7 | 1373.2 | 1491.5 | 1810.1 | 1759.3 | 2059.7 | 1777.6 | 1466.8 | 1420.0 | 1412.1 |
| 70°   | 10415.7 | 3582.5 | 1217.2 | 1308.2 | 1553.9 | 1540.9 | 1946.7 | 1684.0 | 1400.5 | 1360.2 | 1326.3 |
| 72.5° | 9023.1  | 2552.5 | 1026.0 | 1088.4 | 1265.2 | 1306.9 | 1790.5 | 1561.7 | 1306.9 | 1219.8 | 1167.7 |
| 75°   | 7410.6  | 1889.4 | 842.6  | 855.6  | 961.0  | 1074.1 | 1576.0 | 1418.7 | 1196.3 | 1048.1 | 1007.7 |
| 77.5° | 4538.2  | 1156.1 | 671.0  | 676.2  | 689.2  | 856.9  | 1297.7 | 1258.7 | 1055.9 | 873.8  | 845.2  |
| 80°   | 1469.4  | 630.7  | 485.1  | 509.7  | 470.7  | 628.0  | 1003.8 | 1071.5 | 906.3  | 730.8  | 699.6  |
| 82.5° | 559.1   | 368.0  | 327.7  | 344.6  | 326.4  | 421.3  | 732.1  | 858.2  | 742.5  | 600.8  | 489.0  |
| 85°   | 270.4   | 208.0  | 193.8  | 217.1  | 201.6  | 215.8  | 468.1  | 632.0  | 563.0  | 391.4  | 364.1  |
| 87.5° | 96.2    | 92.3   | 74.2   | 100.1  | 85.8   | 76.8   | 143.0  | 318.6  | 371.9  | 269.2  | 240.5  |
| 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)