

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: P459343

Luminaire Tested: **GALN-SA8A-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34596 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

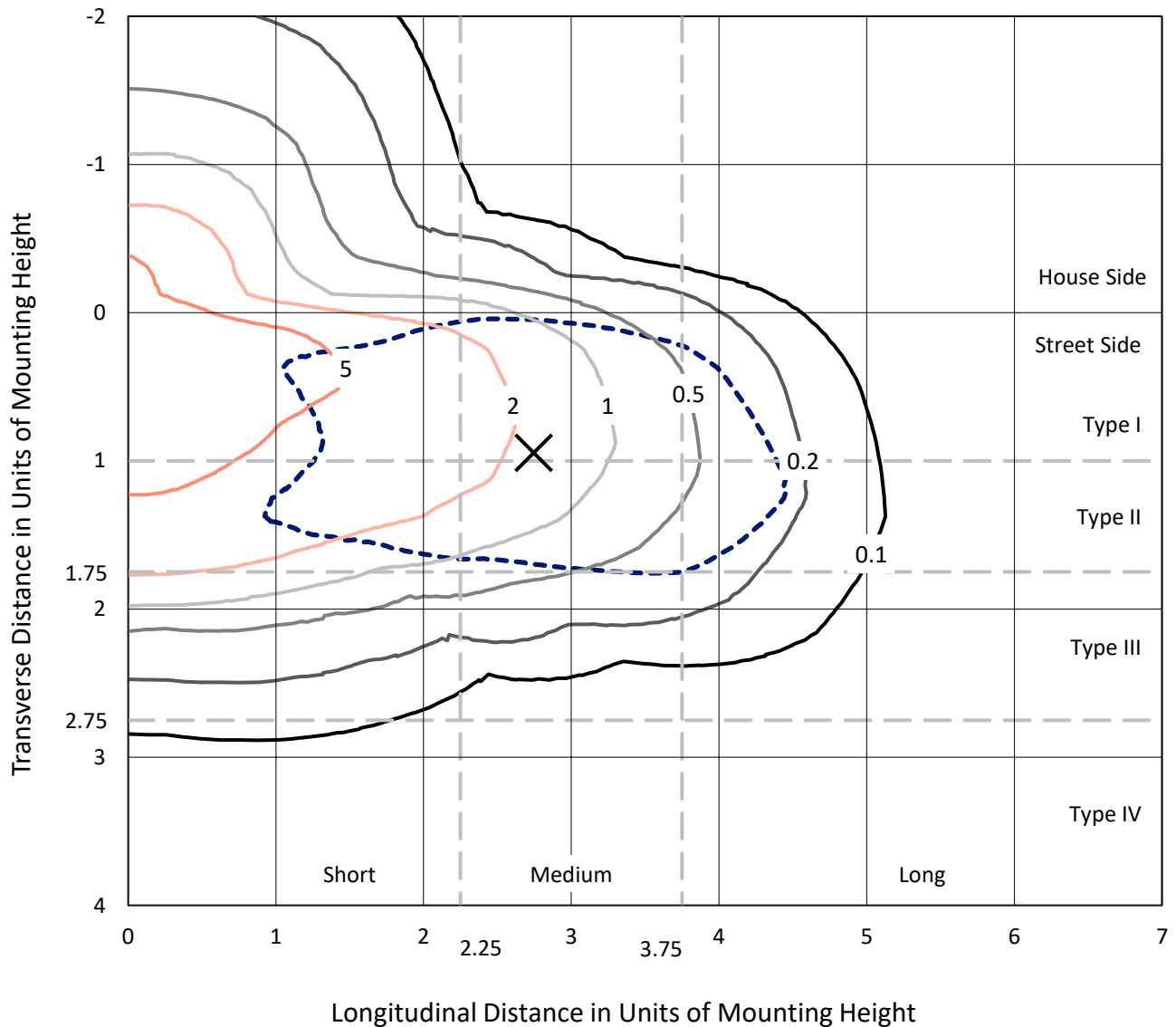
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

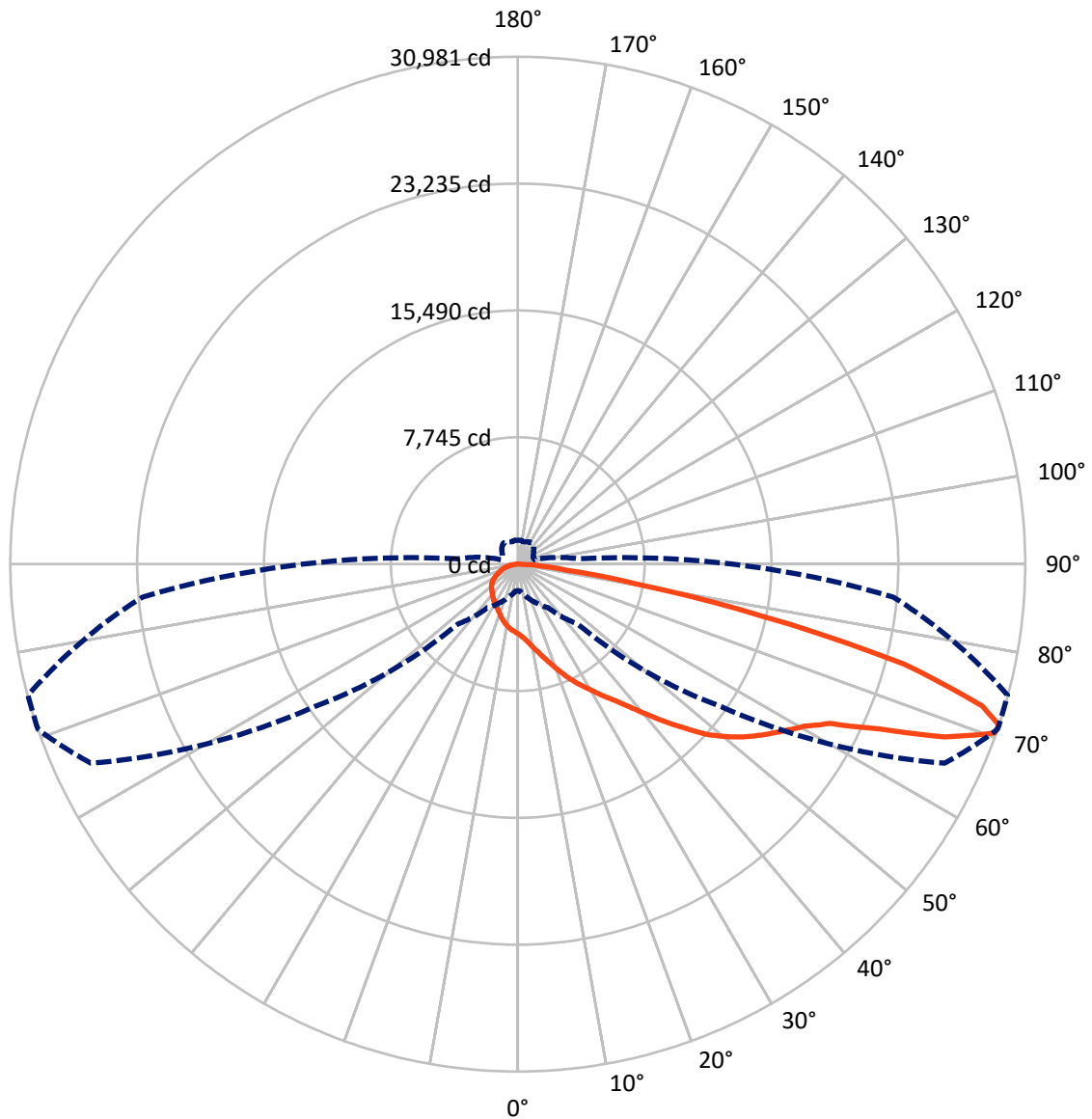
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6222.0   | 0.0    | 6222.0  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 28374.0  | 0.0    | 28374.0 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 34596.0  | 0.0    | 34596.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 426.3   | 1.2       |
| 10°-20°   | 1385.1  | 4.0       |
| 20°-30°   | 2420.6  | 7.0       |
| 30°-40°   | 3600.3  | 10.4      |
| 40°-50°   | 5304.6  | 15.3      |
| 50°-60°   | 7426.5  | 21.5      |
| 60°-70°   | 8306.2  | 24.0      |
| 70°-80°   | 5073.8  | 14.7      |
| 80°-90°   | 652.7   | 1.9       |
| 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°    | 34596.0 | 100.0     |
| 0°-180°   | 34596.0 | 100.0     |

**Coefficient of Utilization**



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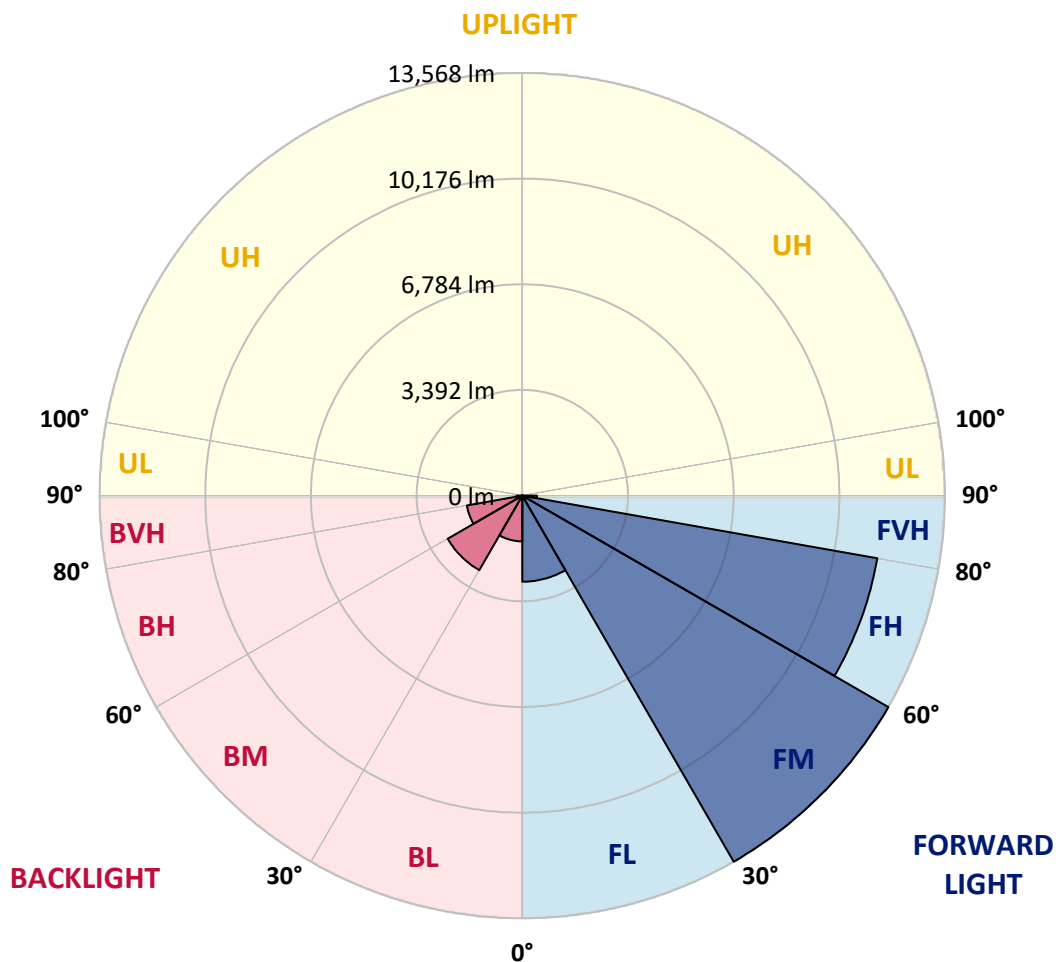
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2764.2  | 8.0       |                         |      |          |
| FM   | (30°-60°)   | 13567.9 | 39.2      |                         |      |          |
| FH   | (60°-80°)   | 11572.3 | 33.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 469.6   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1467.8  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2763.4  | 8.0       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1807.8  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 183.1   | 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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4246.0  | 4246.0  | 4246.0  | 4246.0  | 4246.0  | 4246.0  | 4246.0  | 4246.0  | 4246.0  | 4246.0  | 4246.0  |
| 2.5°  | 4713.7  | 4690.9  | 4692.8  | 4660.5  | 4618.7  | 4573.0  | 4508.4  | 4451.3  | 4405.7  | 4379.1  | 4301.1  |
| 5°    | 5223.3  | 5200.5  | 5172.0  | 5101.6  | 5071.2  | 4959.0  | 4816.4  | 4687.1  | 4588.2  | 4533.1  | 4377.2  |
| 7.5°  | 5635.9  | 5630.2  | 5622.6  | 5582.7  | 5504.7  | 5348.8  | 5227.1  | 5002.8  | 4856.3  | 4751.8  | 4485.6  |
| 10°   | 5890.7  | 5900.3  | 5906.0  | 5913.6  | 5881.2  | 5799.5  | 5632.1  | 5348.8  | 5162.5  | 5029.4  | 4626.3  |
| 12.5° | 6020.0  | 6029.6  | 6061.9  | 6132.2  | 6176.0  | 6166.5  | 6029.6  | 5751.9  | 5495.2  | 5320.3  | 4776.5  |
| 15°   | 6099.9  | 6115.1  | 6172.2  | 6265.3  | 6411.7  | 6504.9  | 6438.4  | 6181.7  | 5900.3  | 5693.0  | 4955.2  |
| 17.5° | 6187.4  | 6204.5  | 6267.2  | 6400.3  | 6592.4  | 6793.9  | 6866.2  | 6645.6  | 6339.5  | 6092.3  | 5154.9  |
| 20°   | 6236.8  | 6259.6  | 6349.0  | 6523.9  | 6748.3  | 7041.1  | 7280.7  | 7164.7  | 6830.1  | 6556.3  | 5385.0  |
| 22.5° | 6316.7  | 6335.7  | 6411.7  | 6598.1  | 6866.2  | 7233.2  | 7695.2  | 7670.5  | 7375.8  | 7022.1  | 5637.9  |
| 25°   | 6533.4  | 6563.9  | 6601.9  | 6714.1  | 6972.7  | 7429.0  | 8039.4  | 8210.5  | 7904.4  | 7508.9  | 5869.8  |
| 27.5° | 6942.3  | 6967.0  | 6965.1  | 6980.3  | 7126.7  | 7598.3  | 8337.9  | 8744.8  | 8429.2  | 8001.4  | 6094.2  |
| 30°   | 7408.1  | 7417.6  | 7425.2  | 7391.0  | 7423.3  | 7771.3  | 8611.7  | 9273.5  | 8957.8  | 8507.2  | 6290.1  |
| 32.5° | 7974.8  | 7993.8  | 7929.1  | 7841.7  | 7815.0  | 8028.0  | 8838.0  | 9802.1  | 9583.4  | 9020.6  | 6484.0  |
| 35°   | 8644.1  | 8693.5  | 8562.3  | 8408.3  | 8299.9  | 8396.9  | 9142.3  | 10342.1 | 10224.2 | 9676.6  | 6740.7  |
| 37.5° | 9408.5  | 9469.3  | 9347.6  | 9045.3  | 8891.3  | 8917.9  | 9539.7  | 11009.5 | 11034.2 | 10423.8 | 7122.9  |
| 40°   | 10034.0 | 10113.9 | 10117.7 | 9689.9  | 9456.0  | 9486.4  | 10043.6 | 11728.3 | 12011.6 | 11348.0 | 7573.5  |
| 42.5° | 10446.7 | 10524.6 | 10606.4 | 10355.4 | 10110.1 | 10283.1 | 10631.1 | 12507.9 | 13110.6 | 12469.8 | 8202.9  |
| 45°   | 10899.2 | 10969.6 | 11015.2 | 10901.1 | 10764.2 | 11213.0 | 11340.4 | 13336.9 | 14281.9 | 13722.9 | 8891.3  |
| 47.5° | 11424.0 | 11502.0 | 11545.7 | 11437.3 | 11386.0 | 12028.7 | 12104.7 | 14110.8 | 15533.1 | 14939.8 | 9651.8  |
| 50°   | 12123.8 | 12182.7 | 12159.9 | 12091.4 | 12080.0 | 12654.3 | 12838.7 | 14835.2 | 16565.6 | 16249.9 | 10441.0 |
| 52.5° | 12994.6 | 13065.0 | 13089.7 | 12992.7 | 12949.0 | 13101.1 | 13430.1 | 15495.1 | 17504.9 | 17375.6 | 11283.3 |
| 55°   | 13521.3 | 13633.5 | 14010.0 | 14162.1 | 14266.7 | 13679.2 | 14067.1 | 16223.3 | 18347.3 | 18562.1 | 12188.4 |
| 57.5° | 12846.3 | 12990.8 | 13833.2 | 14593.8 | 15576.8 | 15124.3 | 14970.3 | 16983.9 | 19189.6 | 19712.5 | 13272.2 |
| 60°   | 11199.6 | 11232.0 | 12317.7 | 13719.1 | 15696.6 | 16982.0 | 16854.6 | 18193.2 | 20102.3 | 20872.4 | 14700.2 |
| 62.5° | 7769.4  | 7837.8  | 9121.3  | 11357.5 | 14217.3 | 17651.3 | 20060.5 | 20281.1 | 21410.5 | 22608.4 | 16793.8 |
| 65°   | 4006.4  | 3917.0  | 5086.4  | 7138.1  | 10718.6 | 16061.7 | 22657.9 | 24120.1 | 24247.5 | 25323.7 | 19741.0 |
| 67.5° | 2466.2  | 2506.1  | 3053.8  | 4168.0  | 6337.6  | 11673.1 | 22386.0 | 28811.0 | 28139.8 | 28657.0 | 22477.2 |
| 70°   | 1852.0  | 1901.5  | 2278.0  | 2852.2  | 3863.8  | 6674.2  | 18003.1 | 29948.1 | 30885.5 | 30752.4 | 23310.1 |
| 71°   | 1610.5  | 1661.9  | 2053.6  | 2595.5  | 3245.8  | 5151.1  | 15168.0 | 28757.8 | 30980.6 | 30957.8 | 22996.3 |
| 72.5° | 1372.9  | 1405.2  | 1711.3  | 2198.1  | 2736.2  | 3610.9  | 11395.5 | 25791.5 | 29659.1 | 30417.8 | 21876.4 |
| 75°   | 1078.1  | 1102.9  | 1239.8  | 1677.1  | 2154.4  | 2217.1  | 6115.1  | 19336.0 | 24359.7 | 25804.8 | 18212.3 |
| 77.5° | 878.5   | 895.6   | 965.9   | 1245.5  | 1661.9  | 1570.6  | 3207.8  | 12585.8 | 15261.2 | 16715.8 | 10728.1 |
| 80°   | 697.8   | 716.9   | 758.7   | 844.3   | 1245.5  | 1120.0  | 1530.7  | 6377.5  | 7372.0  | 7356.8  | 4282.1  |
| 82.5° | 541.9   | 547.6   | 597.1   | 619.9   | 851.9   | 794.8   | 829.0   | 2700.1  | 2991.0  | 3089.9  | 1545.9  |
| 85°   | 342.3   | 359.4   | 528.6   | 475.4   | 509.6   | 465.9   | 408.8   | 1072.4  | 1321.5  | 1302.5  | 618.0   |
| 87.5° | 104.6   | 110.3   | 178.7   | 201.6   | 226.3   | 203.5   | 150.2   | 315.6   | 386.0   | 418.3   | 154.0   |
| 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°    | 4246.0  | 4246.0 | 4246.0 | 4246.0 | 4246.0 | 4246.0 | 4246.0 | 4246.0 | 4246.0 | 4246.0 | 4246.0 |
| 2.5°  | 4270.7  | 4249.8 | 4175.6 | 4114.8 | 4057.7 | 3995.0 | 3941.7 | 3926.5 | 3913.2 | 3907.5 | 3905.6 |
| 5°    | 4310.6  | 4247.9 | 4101.5 | 3981.7 | 3886.6 | 3799.1 | 3744.0 | 3719.3 | 3694.6 | 3694.6 | 3702.2 |
| 7.5°  | 4367.7  | 4253.6 | 4027.3 | 3848.6 | 3728.8 | 3647.0 | 3607.1 | 3603.3 | 3609.0 | 3614.7 | 3616.6 |
| 10°   | 4430.4  | 4249.8 | 3918.9 | 3696.5 | 3590.0 | 3551.9 | 3553.8 | 3586.2 | 3616.6 | 3639.4 | 3643.2 |
| 12.5° | 4491.3  | 4227.0 | 3791.5 | 3553.8 | 3485.4 | 3493.0 | 3546.2 | 3618.5 | 3677.4 | 3709.8 | 3711.7 |
| 15°   | 4559.7  | 4190.8 | 3637.5 | 3418.8 | 3396.0 | 3455.0 | 3553.8 | 3664.1 | 3753.5 | 3806.7 | 3812.4 |
| 17.5° | 4616.8  | 4130.0 | 3475.9 | 3287.6 | 3316.2 | 3424.5 | 3561.4 | 3704.1 | 3812.4 | 3879.0 | 3890.4 |
| 20°   | 4681.4  | 4052.0 | 3308.6 | 3162.1 | 3243.9 | 3390.3 | 3546.2 | 3700.3 | 3812.4 | 3877.1 | 3892.3 |
| 22.5° | 4732.8  | 3941.7 | 3148.8 | 3059.5 | 3179.3 | 3348.5 | 3494.9 | 3618.5 | 3709.8 | 3744.0 | 3766.8 |
| 25°   | 4753.7  | 3802.9 | 2998.6 | 2975.8 | 3127.9 | 3280.0 | 3378.9 | 3449.3 | 3477.8 | 3474.0 | 3483.5 |
| 27.5° | 4742.3  | 3643.2 | 2869.3 | 2909.2 | 3063.3 | 3173.5 | 3223.0 | 3217.3 | 3165.9 | 3118.4 | 3141.2 |
| 30°   | 4694.7  | 3453.1 | 2760.9 | 2840.8 | 2979.6 | 3040.4 | 3032.8 | 2958.7 | 2861.7 | 2772.3 | 2778.0 |
| 32.5° | 4609.2  | 3247.7 | 2660.2 | 2762.8 | 2861.7 | 2888.3 | 2837.0 | 2740.0 | 2601.2 | 2485.2 | 2468.1 |
| 35°   | 4536.9  | 3051.9 | 2570.8 | 2673.5 | 2743.8 | 2730.5 | 2681.1 | 2555.6 | 2430.1 | 2327.4 | 2310.3 |
| 37.5° | 4525.5  | 2884.5 | 2485.2 | 2572.7 | 2612.6 | 2593.6 | 2532.8 | 2426.3 | 2380.6 | 2302.7 | 2293.2 |
| 40°   | 4586.3  | 2766.6 | 2397.8 | 2466.2 | 2485.2 | 2470.0 | 2403.5 | 2342.6 | 2384.4 | 2365.4 | 2365.4 |
| 42.5° | 4751.8  | 2703.9 | 2319.8 | 2359.7 | 2374.9 | 2386.3 | 2338.8 | 2287.5 | 2338.8 | 2251.3 | 2222.8 |
| 45°   | 5014.2  | 2705.8 | 2249.4 | 2255.1 | 2300.8 | 2340.7 | 2308.4 | 2232.3 | 2205.7 | 2030.8 | 1996.5 |
| 47.5° | 5400.2  | 2770.4 | 2192.4 | 2156.3 | 2238.0 | 2304.6 | 2258.9 | 2148.7 | 2030.8 | 1914.8 | 1893.9 |
| 50°   | 5850.8  | 2886.4 | 2141.1 | 2053.6 | 2154.4 | 2258.9 | 2224.7 | 2095.4 | 1973.7 | 1903.4 | 1890.1 |
| 52.5° | 6350.9  | 3032.8 | 2078.3 | 1939.5 | 2051.7 | 2238.0 | 2232.3 | 2087.8 | 1920.5 | 1872.9 | 1861.5 |
| 55°   | 6968.9  | 3177.4 | 2000.3 | 1806.4 | 1960.4 | 2220.9 | 2211.4 | 2025.1 | 1909.1 | 1874.8 | 1871.0 |
| 57.5° | 7687.6  | 3386.5 | 1888.2 | 1671.4 | 1855.8 | 2150.6 | 2129.6 | 1987.0 | 1871.0 | 1846.3 | 1844.4 |
| 60°   | 8845.6  | 3711.7 | 1728.4 | 1547.8 | 1749.3 | 2027.0 | 2053.6 | 1922.4 | 1810.2 | 1804.5 | 1802.6 |
| 62.5° | 10368.7 | 4168.0 | 1563.0 | 1420.4 | 1625.8 | 1867.2 | 1943.3 | 1834.9 | 1745.5 | 1774.1 | 1777.9 |
| 65°   | 12471.7 | 4552.1 | 1391.9 | 1312.0 | 1488.8 | 1713.2 | 1838.7 | 1753.2 | 1673.3 | 1728.4 | 1728.4 |
| 67.5° | 13842.7 | 4559.7 | 1236.0 | 1199.8 | 1350.0 | 1583.9 | 1728.4 | 1656.2 | 1580.1 | 1673.3 | 1677.1 |
| 70°   | 13557.5 | 3995.0 | 1106.7 | 1081.9 | 1215.0 | 1445.1 | 1606.7 | 1549.7 | 1462.2 | 1545.9 | 1515.5 |
| 71°   | 13097.3 | 3681.2 | 1055.3 | 1036.3 | 1161.8 | 1378.6 | 1549.7 | 1502.2 | 1414.7 | 1469.8 | 1452.7 |
| 72.5° | 12363.3 | 3196.4 | 971.6  | 975.5  | 1081.9 | 1294.9 | 1469.8 | 1420.4 | 1332.9 | 1363.4 | 1357.6 |
| 75°   | 10450.5 | 2791.4 | 830.9  | 848.1  | 929.8  | 1152.3 | 1310.1 | 1272.1 | 1182.7 | 1182.7 | 1177.0 |
| 77.5° | 6533.4  | 1950.9 | 690.2  | 699.7  | 789.1  | 986.9  | 1125.7 | 1093.3 | 1007.8 | 979.3  | 971.6  |
| 80°   | 2437.7  | 1007.8 | 540.0  | 551.4  | 606.6  | 777.7  | 931.7  | 901.3  | 813.8  | 781.5  | 751.1  |
| 82.5° | 922.2   | 505.8  | 397.4  | 387.9  | 446.8  | 593.3  | 730.2  | 694.0  | 625.6  | 547.6  | 524.8  |
| 85°   | 348.0   | 251.0  | 243.4  | 235.8  | 262.4  | 351.8  | 452.5  | 444.9  | 372.7  | 317.5  | 311.8  |
| 87.5° | 91.3    | 81.8   | 95.1   | 70.4   | 74.2   | 66.6   | 68.5   | 28.5   | 13.3   | 5.7    | 3.8    |
| 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)