

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: P457725

Luminaire Tested: **GALN-SA9A-750-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-750-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42425 lumens  
Efficiency: N/A  
Efficacy: 154.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

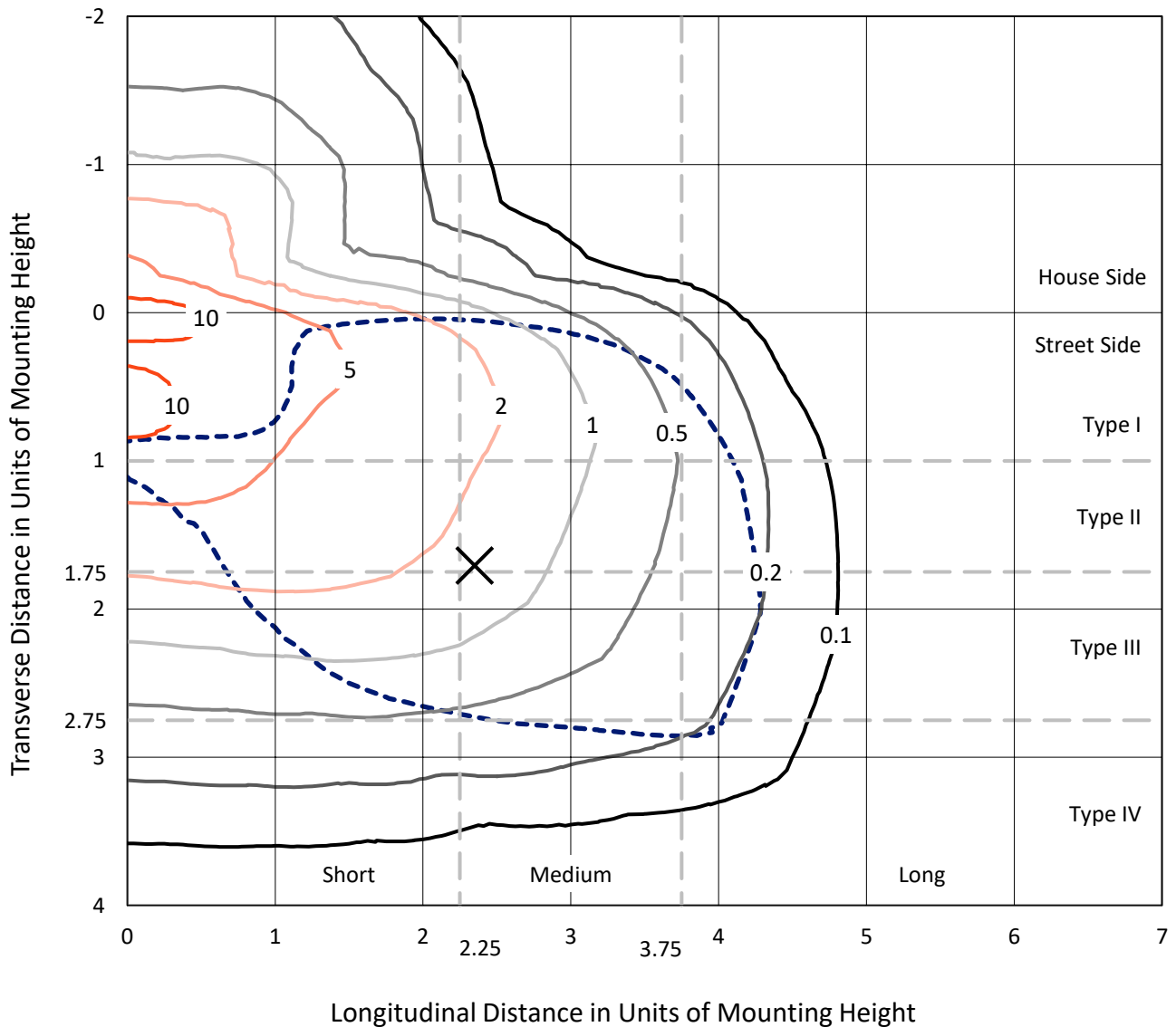
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

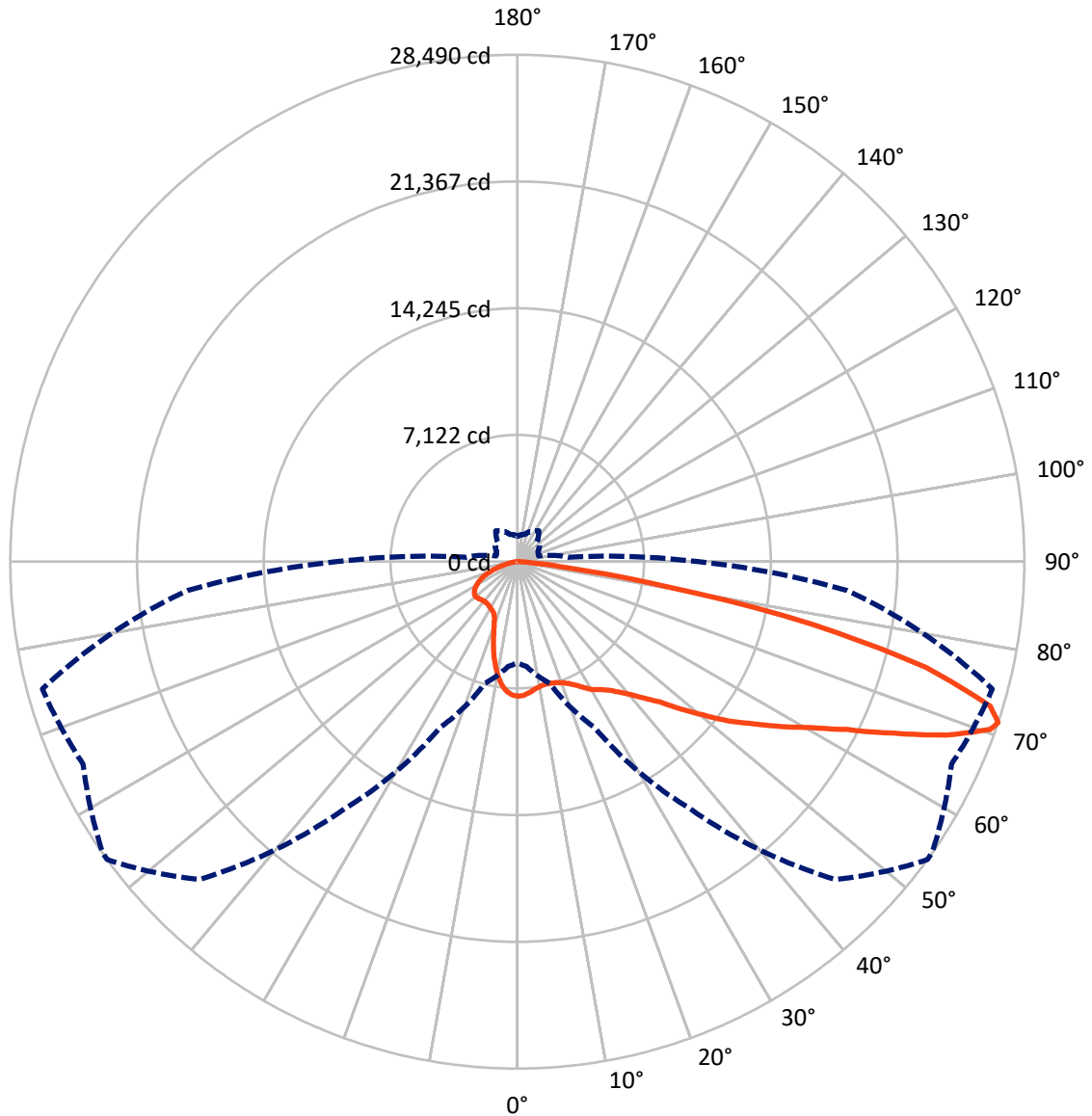
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SA9A-750-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7659.6   | 0.0    | 7659.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 34765.4  | 0.0    | 34765.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 42425.0  | 0.0    | 42425.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 674.5   | 1.6       |
| 10°-20°   | 1781.1  | 4.2       |
| 20°-30°   | 2965.6  | 7.0       |
| 30°-40°   | 4385.2  | 10.3      |
| 40°-50°   | 6176.7  | 14.6      |
| 50°-60°   | 8270.9  | 19.5      |
| 60°-70°   | 10424.8 | 24.6      |
| 70°-80°   | 7120.1  | 16.8      |
| 80°-90°   | 626.2   | 1.5       |
| 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°    | 42425.0 | 100.0     |
| 0°-180°   | 42425.0 | 100.0     |

**Coefficient of Utilization**



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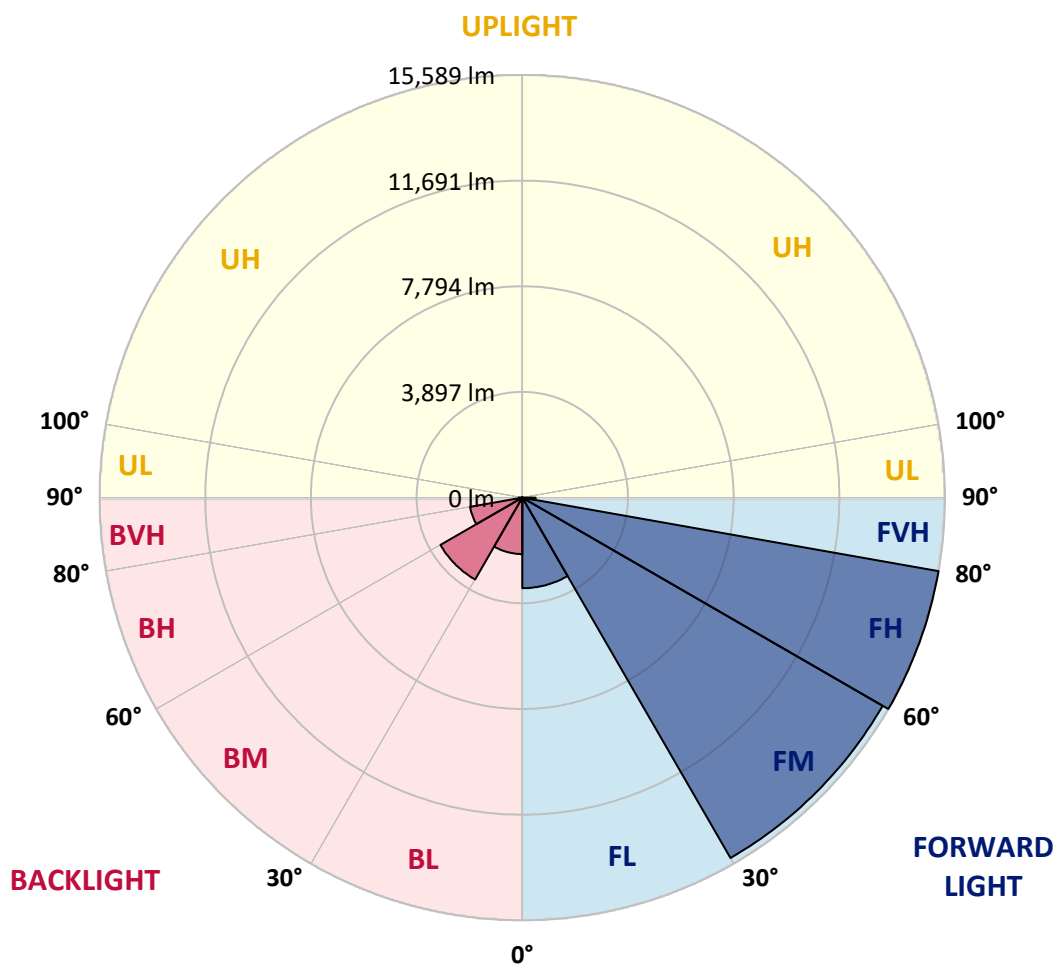
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3339.5  | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 15347.8 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 15588.6 | 36.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 489.4   | 1.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2081.7  | 4.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3484.9  | 8.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1956.2  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 136.7   | 0.3       |                         |      | 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





REPORT NUMBER: P457725

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7569.2  | 7569.2  | 7569.2  | 7569.2  | 7569.2  | 7569.2  | 7569.2  | 7569.2  | 7569.2  | 7569.2  | 7569.2  |
| 2.5°  | 7312.6  | 7347.0  | 7356.1  | 7379.0  | 7427.2  | 7466.1  | 7505.1  | 7500.5  | 7555.5  | 7578.4  | 7599.0  |
| 5°    | 6987.2  | 6996.3  | 7030.7  | 7076.5  | 7161.3  | 7269.0  | 7374.5  | 7376.8  | 7512.0  | 7619.7  | 7672.4  |
| 7.5°  | 6748.8  | 6778.6  | 6801.6  | 6849.7  | 6939.1  | 7055.9  | 7223.2  | 7237.0  | 7477.6  | 7690.7  | 7803.0  |
| 10°   | 6593.0  | 6627.4  | 6652.6  | 6712.2  | 6801.6  | 6932.2  | 7113.2  | 7138.4  | 7452.4  | 7803.0  | 8000.1  |
| 12.5° | 6450.9  | 6485.3  | 6508.2  | 6586.1  | 6703.0  | 6863.4  | 7067.4  | 7097.2  | 7461.5  | 7933.6  | 8215.5  |
| 15°   | 6538.0  | 6565.5  | 6556.3  | 6579.3  | 6657.2  | 6840.5  | 7085.7  | 7115.5  | 7495.9  | 8059.7  | 8428.6  |
| 17.5° | 6925.3  | 6948.2  | 6872.6  | 6785.5  | 6748.8  | 6884.1  | 7143.0  | 7175.1  | 7564.7  | 8190.3  | 8646.3  |
| 20°   | 7495.9  | 7557.8  | 7392.8  | 7198.0  | 7021.5  | 7039.9  | 7262.2  | 7296.5  | 7660.9  | 8320.9  | 8868.6  |
| 22.5° | 8238.4  | 8284.2  | 8082.6  | 7761.7  | 7436.3  | 7269.0  | 7440.9  | 7461.5  | 7805.3  | 8490.5  | 9111.5  |
| 25°   | 9111.5  | 9139.0  | 8859.4  | 8446.9  | 7977.2  | 7660.9  | 7686.1  | 7722.8  | 8043.6  | 8683.0  | 9326.9  |
| 27.5° | 9959.4  | 10046.5 | 9723.4  | 9219.2  | 8600.5  | 8073.4  | 8023.0  | 8045.9  | 8302.6  | 8790.7  | 9475.9  |
| 30°   | 10965.4 | 10958.6 | 10617.1 | 10032.7 | 9239.8  | 8522.6  | 8341.5  | 8336.9  | 8442.4  | 8843.4  | 9583.6  |
| 32.5° | 11767.5 | 11861.5 | 11526.9 | 10889.8 | 9970.9  | 8987.8  | 8561.5  | 8552.4  | 8550.1  | 8935.1  | 9744.0  |
| 35°   | 12679.6 | 12693.3 | 12386.3 | 11744.6 | 10761.5 | 9572.1  | 8868.6  | 8822.8  | 8770.1  | 9132.1  | 9961.7  |
| 37.5° | 13495.4 | 13559.6 | 13277.7 | 12558.1 | 11538.3 | 10179.4 | 9290.3  | 9260.5  | 9100.1  | 9473.6  | 10310.0 |
| 40°   | 14132.5 | 14180.6 | 14011.0 | 13325.8 | 12303.8 | 10834.8 | 9826.5  | 9771.5  | 9576.7  | 10032.7 | 10775.2 |
| 42.5° | 14341.0 | 14439.5 | 14506.0 | 14169.1 | 13183.7 | 11611.7 | 10486.5 | 10417.7 | 10268.8 | 10880.7 | 11311.5 |
| 45°   | 14357.1 | 14512.9 | 14863.5 | 14879.5 | 14068.3 | 12542.1 | 11256.5 | 11208.4 | 11196.9 | 11966.9 | 12065.4 |
| 47.5° | 14235.6 | 14393.7 | 14982.7 | 15301.2 | 14856.6 | 13481.6 | 12367.9 | 12292.3 | 12299.2 | 13309.8 | 12911.0 |
| 50°   | 13942.3 | 14130.2 | 14845.2 | 15571.6 | 15473.1 | 14457.9 | 13541.2 | 13516.0 | 13658.1 | 14842.9 | 13788.7 |
| 52.5° | 13390.0 | 13616.9 | 14703.1 | 15741.2 | 15931.4 | 15298.9 | 14875.0 | 14803.9 | 15163.7 | 16506.6 | 14748.9 |
| 55°   | 11861.5 | 12202.9 | 14182.9 | 15835.2 | 16366.8 | 16103.3 | 16075.8 | 16204.1 | 16680.8 | 18321.6 | 15805.4 |
| 57.5° | 11064.0 | 11320.6 | 13053.1 | 15851.2 | 16916.8 | 17038.3 | 17478.2 | 17510.3 | 18344.5 | 20248.8 | 16999.3 |
| 60°   | 10628.6 | 10855.4 | 12434.4 | 15745.8 | 17684.5 | 18195.5 | 18912.8 | 19027.4 | 19969.2 | 22336.5 | 18236.8 |
| 62.5° | 10248.2 | 10443.0 | 12063.1 | 15381.4 | 18550.7 | 19912.0 | 20771.3 | 20826.3 | 21814.0 | 24641.9 | 19458.2 |
| 65°   | 9352.1  | 9574.4  | 11316.1 | 15017.0 | 19297.8 | 22056.9 | 23237.1 | 23172.9 | 23777.9 | 26631.0 | 20223.6 |
| 67.5° | 8144.4  | 8426.3  | 9920.5  | 13758.9 | 19666.8 | 24401.3 | 26014.6 | 25934.4 | 25716.7 | 27934.9 | 20443.6 |
| 70°   | 6602.2  | 6753.4  | 8135.3  | 11584.2 | 18193.2 | 25631.9 | 28207.7 | 28122.9 | 26917.5 | 28106.8 | 19403.2 |
| 71°   | 5680.9  | 5917.0  | 7083.4  | 10289.4 | 16967.2 | 25256.0 | 28489.5 | 28466.6 | 26919.8 | 27632.5 | 18619.5 |
| 72.5° | 4434.3  | 4578.7  | 5609.9  | 7972.6  | 14421.2 | 23120.2 | 27792.9 | 27879.9 | 26335.4 | 26314.8 | 17003.9 |
| 75°   | 2805.0  | 2869.1  | 3519.9  | 4693.3  | 7913.0  | 16373.7 | 23725.2 | 23961.3 | 23383.8 | 21539.0 | 12645.2 |
| 77.5° | 1629.3  | 1711.8  | 2108.3  | 2766.0  | 3419.1  | 8886.9  | 16976.4 | 17233.0 | 16247.6 | 11859.2 | 5176.8  |
| 80°   | 948.7   | 1040.4  | 1388.7  | 1606.4  | 1569.8  | 3297.7  | 8644.0  | 9081.7  | 7035.3  | 2995.2  | 1452.9  |
| 82.5° | 527.1   | 588.9   | 976.2   | 978.5   | 836.4   | 1077.1  | 2720.2  | 2846.2  | 2007.5  | 1207.7  | 593.5   |
| 85°   | 382.7   | 433.1   | 630.2   | 570.6   | 401.0   | 462.9   | 946.4   | 992.3   | 811.2   | 508.7   | 192.5   |
| 87.5° | 135.2   | 192.5   | 346.0   | 275.0   | 110.0   | 96.2    | 272.7   | 222.3   | 206.2   | 142.1   | 43.5    |
| 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°    | 7569.2  | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 |
| 2.5°  | 7610.5  | 7615.1 | 7592.2 | 7550.9 | 7509.7 | 7457.0 | 7397.4 | 7351.5 | 7330.9 | 7328.6 | 7326.3 |
| 5°    | 7693.0  | 7704.5 | 7617.4 | 7489.0 | 7347.0 | 7172.8 | 7023.8 | 6854.3 | 6810.7 | 6742.0 | 6762.6 |
| 7.5°  | 7825.9  | 7819.0 | 7647.2 | 7374.5 | 7042.2 | 6673.2 | 6361.6 | 6180.5 | 5992.6 | 5939.9 | 5942.2 |
| 10°   | 8016.1  | 7972.6 | 7647.2 | 7140.7 | 6586.1 | 6038.4 | 5603.0 | 5328.0 | 5179.1 | 5055.3 | 5009.5 |
| 12.5° | 8217.8  | 8107.8 | 7573.8 | 6813.0 | 5999.5 | 5328.0 | 4860.5 | 4489.3 | 4393.1 | 4292.2 | 4294.5 |
| 15°   | 8410.3  | 8226.9 | 7429.5 | 6352.4 | 5367.0 | 4569.5 | 4115.8 | 3893.5 | 3863.7 | 3875.1 | 3872.9 |
| 17.5° | 8584.4  | 8311.7 | 7209.5 | 5839.1 | 4629.1 | 3918.7 | 3678.1 | 3694.1 | 3774.3 | 3831.6 | 3838.5 |
| 20°   | 8760.9  | 8362.2 | 6881.8 | 5151.6 | 3932.4 | 3524.5 | 3533.7 | 3659.7 | 3781.2 | 3859.1 | 3870.6 |
| 22.5° | 8928.2  | 8385.1 | 6496.8 | 4487.0 | 3428.3 | 3357.2 | 3492.4 | 3627.6 | 3746.8 | 3822.4 | 3833.9 |
| 25°   | 9038.2  | 8332.4 | 5951.4 | 3792.6 | 3180.8 | 3297.7 | 3439.7 | 3554.3 | 3655.1 | 3733.1 | 3751.4 |
| 27.5° | 9068.0  | 8162.8 | 5275.3 | 3231.2 | 3066.2 | 3240.4 | 3371.0 | 3455.8 | 3533.7 | 3607.0 | 3620.8 |
| 30°   | 9051.9  | 7913.0 | 4532.8 | 2901.2 | 2999.7 | 3173.9 | 3274.7 | 3336.6 | 3430.6 | 3487.9 | 3499.3 |
| 32.5° | 9026.7  | 7622.0 | 3758.3 | 2724.7 | 2944.7 | 3112.0 | 3171.6 | 3226.6 | 3224.3 | 3201.4 | 3217.4 |
| 35°   | 9035.9  | 7273.6 | 3130.4 | 2619.3 | 2896.6 | 3066.2 | 3116.6 | 3047.9 | 2850.8 | 2841.6 | 2832.5 |
| 37.5° | 9084.0  | 6929.9 | 2674.3 | 2546.0 | 2871.4 | 3059.3 | 3086.8 | 2770.6 | 2596.4 | 2516.2 | 2495.6 |
| 40°   | 9207.8  | 6528.8 | 2374.1 | 2491.0 | 2869.1 | 3112.0 | 2951.6 | 2630.8 | 2296.2 | 2140.4 | 2128.9 |
| 42.5° | 9372.8  | 6134.7 | 2190.8 | 2456.6 | 2896.6 | 3192.2 | 2896.6 | 2433.7 | 2069.3 | 1977.7 | 1963.9 |
| 45°   | 9618.0  | 5683.2 | 2090.0 | 2440.6 | 2937.9 | 3222.0 | 2878.3 | 2289.3 | 1977.7 | 1904.3 | 1904.3 |
| 47.5° | 9895.3  | 5252.4 | 2035.0 | 2429.1 | 2990.6 | 3201.4 | 2715.6 | 2243.5 | 1934.1 | 1943.3 | 1986.8 |
| 50°   | 10170.2 | 4878.9 | 1993.7 | 2403.9 | 3036.4 | 3189.9 | 2649.1 | 2241.2 | 1945.6 | 2062.5 | 2140.4 |
| 52.5° | 10488.8 | 4615.3 | 1943.3 | 2362.7 | 3036.4 | 3116.6 | 2628.5 | 2287.0 | 1977.7 | 2012.0 | 2046.4 |
| 55°   | 10873.8 | 4532.8 | 1879.1 | 2273.3 | 2981.4 | 2933.3 | 2617.0 | 2353.5 | 2000.6 | 1920.4 | 1934.1 |
| 57.5° | 11382.5 | 4665.8 | 1817.3 | 2161.0 | 2855.4 | 2743.1 | 2612.5 | 2371.8 | 1947.9 | 1881.4 | 1867.7 |
| 60°   | 11973.8 | 4929.3 | 1798.9 | 2046.4 | 2683.5 | 2580.4 | 2585.0 | 2319.1 | 1874.6 | 1805.8 | 1817.3 |
| 62.5° | 12388.5 | 5087.4 | 1787.5 | 1959.3 | 2495.6 | 2401.6 | 2518.5 | 2255.0 | 1842.5 | 1782.9 | 1794.3 |
| 65°   | 12388.5 | 4894.9 | 1682.1 | 1826.4 | 2252.7 | 2186.2 | 2438.3 | 2174.8 | 1801.2 | 1732.5 | 1721.0 |
| 67.5° | 11918.8 | 4333.5 | 1521.6 | 1627.1 | 1984.6 | 1941.0 | 2326.0 | 2078.5 | 1739.3 | 1686.6 | 1659.1 |
| 70°   | 10695.0 | 3286.2 | 1320.0 | 1393.3 | 1645.4 | 1684.3 | 2181.6 | 1947.9 | 1636.2 | 1572.1 | 1530.8 |
| 71°   | 10156.5 | 2862.2 | 1235.2 | 1274.1 | 1514.8 | 1572.1 | 2112.9 | 1892.9 | 1590.4 | 1498.7 | 1425.4 |
| 72.5° | 9118.4  | 2410.8 | 1106.9 | 1122.9 | 1294.8 | 1397.9 | 1968.5 | 1787.5 | 1503.3 | 1372.7 | 1290.2 |
| 75°   | 6927.6  | 1760.0 | 891.4  | 882.3  | 957.9  | 1109.1 | 1666.0 | 1592.7 | 1317.7 | 1141.2 | 1093.1 |
| 77.5° | 2992.9  | 957.9  | 666.9  | 673.7  | 650.8  | 841.0  | 1310.8 | 1368.1 | 1129.8 | 928.1  | 884.6  |
| 80°   | 907.5   | 552.3  | 456.0  | 465.2  | 435.4  | 563.7  | 923.5  | 1072.5 | 907.5  | 721.9  | 662.3  |
| 82.5° | 465.2   | 330.0  | 311.7  | 307.1  | 277.3  | 318.5  | 559.2  | 733.3  | 648.5  | 451.5  | 398.7  |
| 85°   | 201.7   | 176.5  | 153.5  | 149.0  | 130.6  | 114.6  | 199.4  | 366.7  | 343.7  | 252.1  | 240.6  |
| 87.5° | 50.4    | 45.8   | 29.8   | 27.5   | 16.0   | 2.3    | 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)