

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: STREETWORKS

Report Number: P459398

Luminaire Tested: **GLAN-SA8C-735-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-735-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45586 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

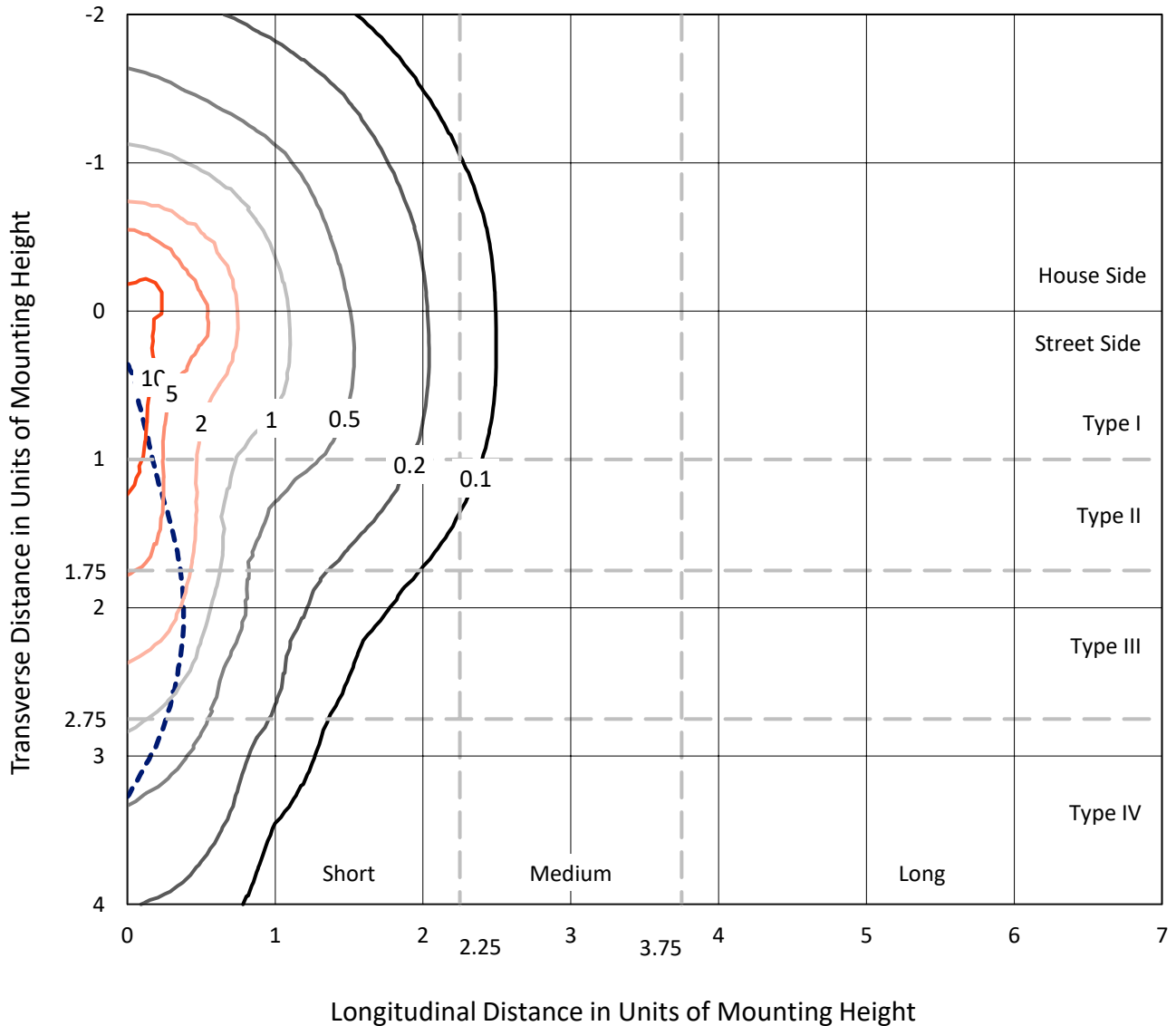
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

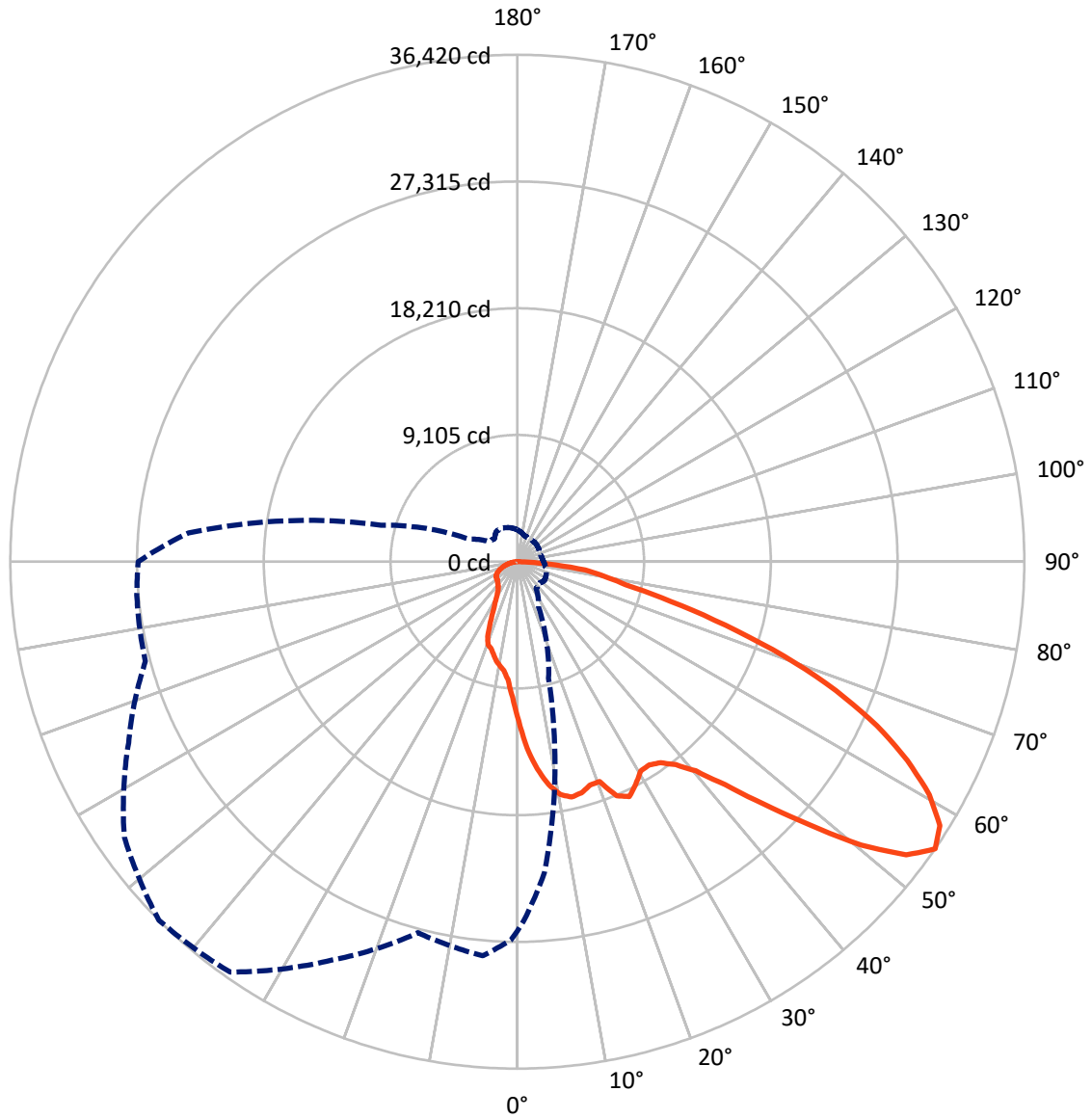
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9971.7   | 0.0    | 9971.7  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 35614.3  | 0.0    | 35614.3 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 45586.0  | 0.0    | 45586.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 969.6   | 2.1       |
| 10°-20°   | 2572.4  | 5.6       |
| 20°-30°   | 4443.9  | 9.7       |
| 30°-40°   | 5164.5  | 11.3      |
| 40°-50°   | 7205.5  | 15.8      |
| 50°-60°   | 9777.1  | 21.4      |
| 60°-70°   | 9301.8  | 20.4      |
| 70°-80°   | 5025.1  | 11.0      |
| 80°-90°   | 1126.2  | 2.5       |
| 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°    | 45586.0 | 100.0     |
| 0°-180°   | 45586.0 | 100.0     |



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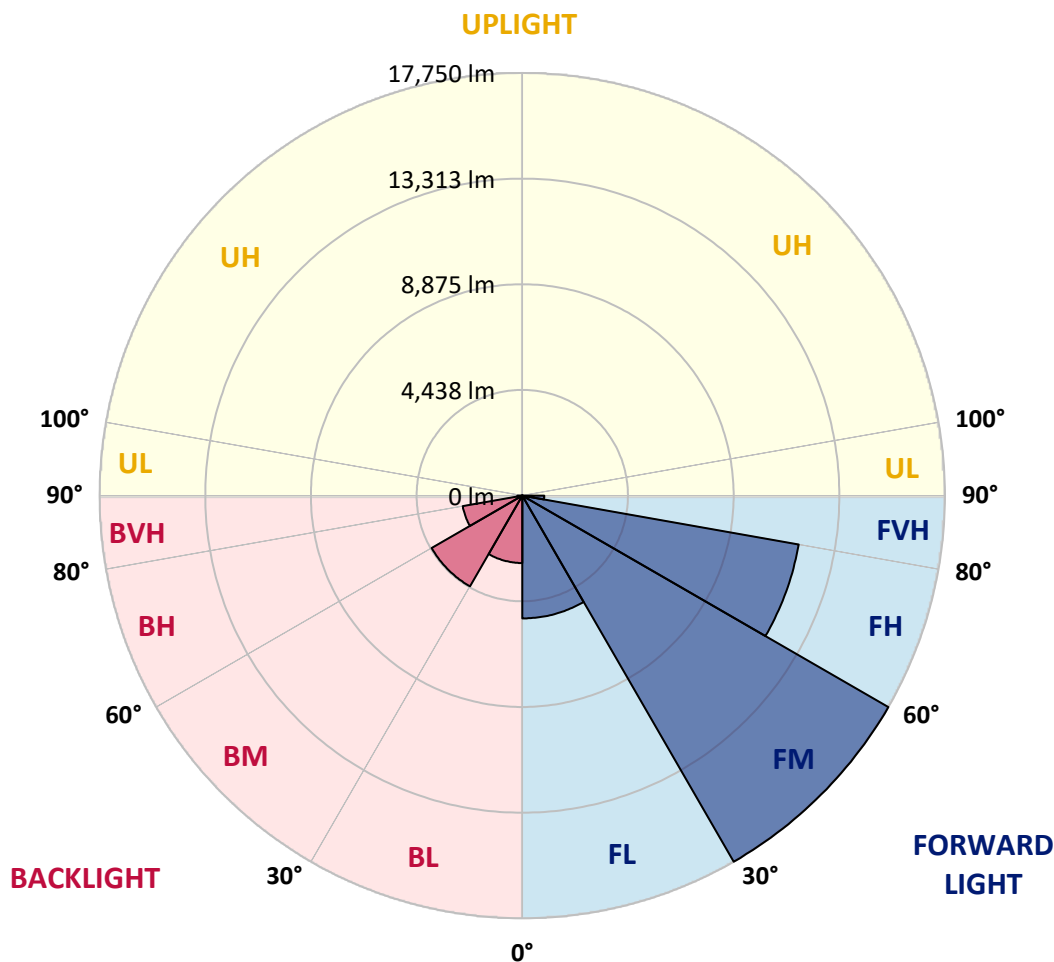
CATALOG NUMBER: GLAN-SA8C-735-U-SLR

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 5155.9  | 11.3      |                         |      |          |
| FM   | (30°-60°)   | 17750.2 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 11787.8 | 25.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 920.4   | 2.0       |                         |      | G5       |
| BL   | (0°-30°)    | 2830.0  | 6.2       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 4396.9  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2539.0  | 5.6       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 205.8   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 |
| 2.5°  | 12709.4 | 12661.3 | 12526.0 | 12171.1 | 11813.2 | 11449.3 | 11169.6 | 10820.8 | 10456.9 | 10261.4 | 10011.8 |
| 5°    | 12883.9 | 12829.7 | 12511.0 | 11711.0 | 10986.2 | 10225.3 | 9617.8  | 9085.5  | 8868.9  | 8550.2  | 8294.5  |
| 7.5°  | 12474.9 | 12450.8 | 11972.6 | 10823.8 | 9831.3  | 8835.9  | 8147.2  | 7720.1  | 7332.1  | 7187.8  | 7217.9  |
| 10°   | 12101.9 | 12005.7 | 11407.2 | 9906.5  | 8748.6  | 7939.6  | 7446.4  | 7028.4  | 6754.7  | 6682.5  | 6697.6  |
| 12.5° | 11792.2 | 11662.9 | 10956.1 | 9290.0  | 8276.5  | 7629.9  | 7001.3  | 6565.2  | 6315.6  | 6384.8  | 6619.4  |
| 15°   | 11729.0 | 11554.6 | 10766.6 | 9079.5  | 8017.8  | 7184.8  | 6496.1  | 5993.8  | 5807.4  | 5957.7  | 6333.7  |
| 17.5° | 12138.0 | 11918.5 | 11091.4 | 9148.6  | 7771.2  | 6730.7  | 5885.6  | 5311.1  | 5154.8  | 5395.3  | 5885.6  |
| 20°   | 13452.3 | 13127.5 | 12104.9 | 9548.6  | 7747.2  | 6505.1  | 5530.7  | 4953.3  | 5019.4  | 5476.5  | 5987.8  |
| 22.5° | 15882.3 | 15395.1 | 13879.3 | 10132.1 | 7873.5  | 6448.0  | 5458.5  | 5157.8  | 5521.7  | 5909.6  | 6246.5  |
| 25°   | 16363.5 | 15981.5 | 14198.1 | 10264.4 | 7846.4  | 6408.9  | 5663.0  | 5813.4  | 6219.4  | 6411.9  | 6294.6  |
| 27.5° | 16634.2 | 16198.1 | 14177.1 | 9608.8  | 7016.4  | 5813.4  | 5413.4  | 5663.0  | 5765.3  | 5578.8  | 5260.0  |
| 30°   | 17265.7 | 16811.6 | 14535.0 | 8920.1  | 5777.3  | 4312.7  | 3780.4  | 3678.1  | 3747.3  | 3783.4  | 3669.1  |
| 32.5° | 18134.9 | 17686.8 | 15208.6 | 8469.0  | 4995.4  | 3566.8  | 3043.5  | 2899.2  | 2866.1  | 2827.0  | 2781.9  |
| 35°   | 19259.7 | 18570.9 | 15870.3 | 8180.2  | 4673.6  | 3299.2  | 2818.0  | 2706.7  | 2661.6  | 2607.5  | 2559.3  |
| 37.5° | 20402.5 | 19680.7 | 16706.3 | 7876.5  | 4460.0  | 3112.7  | 2667.6  | 2616.5  | 2538.3  | 2481.1  | 2412.0  |
| 40°   | 21617.5 | 20808.5 | 17467.2 | 7611.8  | 4252.5  | 2992.4  | 2559.3  | 2553.3  | 2451.1  | 2384.9  | 2303.7  |
| 42.5° | 22670.1 | 21837.0 | 18146.9 | 7449.4  | 4093.1  | 2866.1  | 2493.2  | 2511.2  | 2406.0  | 2306.7  | 2201.4  |
| 45°   | 23506.2 | 22688.1 | 18775.5 | 7449.4  | 3963.8  | 2739.8  | 2481.1  | 2469.1  | 2363.8  | 2240.5  | 2120.2  |
| 47.5° | 24240.0 | 23394.9 | 19389.0 | 7638.9  | 3882.6  | 2634.5  | 2415.0  | 2436.0  | 2327.8  | 2171.4  | 2054.1  |
| 50°   | 24808.4 | 24062.5 | 20216.0 | 7933.6  | 3801.4  | 2550.3  | 2330.8  | 2445.0  | 2297.7  | 2135.3  | 1999.9  |
| 52.5° | 25533.2 | 24865.5 | 21211.5 | 8336.6  | 3732.2  | 2457.1  | 2255.6  | 2445.0  | 2294.7  | 2138.3  | 1990.9  |
| 55°   | 26537.7 | 25833.9 | 22411.4 | 8670.5  | 3621.0  | 2369.9  | 2189.4  | 2375.9  | 2285.7  | 2123.3  | 1966.9  |
| 57.5° | 27241.4 | 26715.1 | 23259.5 | 8893.0  | 3461.6  | 2258.6  | 2129.3  | 2309.7  | 2246.6  | 2066.1  | 1894.7  |
| 58°   | 27274.5 | 26760.2 | 23382.9 | 8944.1  | 3422.5  | 2237.5  | 2114.2  | 2279.6  | 2228.5  | 2042.1  | 1870.6  |
| 60°   | 26895.5 | 26453.5 | 23406.9 | 8872.0  | 3199.9  | 2132.3  | 2036.0  | 2156.3  | 2132.3  | 1900.7  | 1741.3  |
| 62.5° | 25518.1 | 25046.0 | 22435.5 | 8285.5  | 2905.2  | 2003.0  | 1915.7  | 1990.9  | 1936.8  | 1702.2  | 1554.8  |
| 65°   | 23560.3 | 22691.1 | 20438.6 | 7365.2  | 2694.7  | 1864.6  | 1753.3  | 1759.4  | 1702.2  | 1533.8  | 1404.5  |
| 67.5° | 20952.8 | 19981.4 | 17304.8 | 6207.4  | 2535.3  | 1711.2  | 1560.9  | 1545.8  | 1476.7  | 1368.4  | 1263.1  |
| 70°   | 17743.9 | 17079.3 | 14062.8 | 5049.5  | 2357.8  | 1542.8  | 1344.3  | 1335.3  | 1293.2  | 1212.0  | 1118.8  |
| 72.5° | 14381.6 | 13536.5 | 11356.1 | 4042.0  | 2141.3  | 1380.4  | 1142.8  | 1160.9  | 1106.7  | 1049.6  | 965.4   |
| 75°   | 10613.3 | 10059.9 | 8778.7  | 3242.0  | 1849.6  | 1203.0  | 953.4   | 959.4   | 935.3   | 875.2   | 809.0   |
| 77.5° | 6989.3  | 6823.9  | 6279.5  | 2129.3  | 1422.5  | 956.4   | 778.9   | 784.9   | 766.9   | 712.8   | 643.6   |
| 80°   | 4703.6  | 4592.4  | 4255.5  | 1371.4  | 950.4   | 691.7   | 601.5   | 607.5   | 604.5   | 547.4   | 454.1   |
| 82.5° | 2899.2  | 2851.1  | 2742.8  | 926.3   | 658.6   | 496.2   | 397.0   | 415.0   | 448.1   | 385.0   | 309.8   |
| 85°   | 1368.4  | 1371.4  | 1657.1  | 505.3   | 388.0   | 318.8   | 216.5   | 231.6   | 231.6   | 231.6   | 174.4   |
| 87.5° | 177.4   | 186.5   | 228.6   | 213.5   | 141.3   | 120.3   | 78.2    | 66.2    | 57.1    | 75.2    | 54.1    |
| 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°    | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 |
| 2.5°  | 9924.6  | 9864.4  | 9735.1  | 9705.0  | 9687.0  | 9738.1  | 9602.8  | 9638.8  | 9578.7  | 9747.1  | 9720.0  |
| 5°    | 8309.6  | 8315.6  | 8420.8  | 8490.0  | 8514.1  | 8490.0  | 8399.8  | 8243.4  | 8123.1  | 8075.0  | 8087.0  |
| 7.5°  | 7160.7  | 7266.0  | 7446.4  | 7647.9  | 7831.4  | 7885.5  | 7834.4  | 7536.6  | 7211.8  | 7007.3  | 6941.2  |
| 10°   | 6778.8  | 6920.1  | 7127.6  | 7287.0  | 7449.4  | 7578.8  | 7605.8  | 7374.2  | 6989.3  | 6505.1  | 6315.6  |
| 12.5° | 6799.8  | 6992.3  | 7190.8  | 7241.9  | 7226.9  | 7278.0  | 7253.9  | 7214.9  | 6962.2  | 6345.7  | 6029.9  |
| 15°   | 6601.3  | 6829.9  | 6968.2  | 6941.2  | 6893.1  | 6847.9  | 6784.8  | 6685.5  | 6595.3  | 6162.2  | 5813.4  |
| 17.5° | 6144.2  | 6378.8  | 6493.1  | 6502.1  | 6502.1  | 6490.1  | 6336.7  | 6300.6  | 6288.6  | 6078.0  | 5864.5  |
| 20°   | 6228.4  | 6357.7  | 6306.6  | 6222.4  | 6246.5  | 6327.7  | 6237.4  | 6219.4  | 6288.6  | 6381.8  | 6342.7  |
| 22.5° | 6276.5  | 6231.4  | 5846.5  | 5473.5  | 5389.3  | 5642.0  | 5693.1  | 5894.6  | 6174.3  | 6511.1  | 6730.7  |
| 25°   | 5978.8  | 5614.9  | 4926.2  | 4505.1  | 4267.6  | 4502.1  | 4808.9  | 5181.8  | 5599.9  | 6032.9  | 6288.6  |
| 27.5° | 4998.4  | 4721.7  | 4228.5  | 3849.5  | 3642.0  | 3678.1  | 3939.7  | 4279.6  | 4667.5  | 4959.3  | 5145.7  |
| 30°   | 3765.3  | 3642.0  | 3386.4  | 3257.1  | 3130.7  | 3100.7  | 3211.9  | 3341.3  | 3512.7  | 3548.8  | 3596.9  |
| 32.5° | 2772.9  | 2754.8  | 2769.9  | 2727.7  | 2703.7  | 2700.7  | 2667.6  | 2697.7  | 2715.7  | 2736.8  | 2694.7  |
| 35°   | 2508.2  | 2484.1  | 2442.0  | 2430.0  | 2415.0  | 2421.0  | 2406.0  | 2390.9  | 2402.9  | 2421.0  | 2433.0  |
| 37.5° | 2372.9  | 2336.8  | 2276.6  | 2255.6  | 2255.6  | 2264.6  | 2240.5  | 2234.5  | 2255.6  | 2312.7  | 2342.8  |
| 40°   | 2267.6  | 2225.5  | 2156.3  | 2129.3  | 2147.3  | 2171.4  | 2138.3  | 2126.3  | 2177.4  | 2237.5  | 2285.7  |
| 42.5° | 2168.4  | 2135.3  | 2069.1  | 2039.0  | 2054.1  | 2099.2  | 2051.1  | 2042.1  | 2108.2  | 2174.4  | 2231.5  |
| 45°   | 2084.2  | 2051.1  | 1990.9  | 1975.9  | 1981.9  | 2024.0  | 1990.9  | 1990.9  | 2054.1  | 2126.3  | 2177.4  |
| 47.5° | 2018.0  | 1975.9  | 1936.8  | 1924.8  | 1930.8  | 1954.8  | 1948.8  | 1948.8  | 2009.0  | 2084.2  | 2135.3  |
| 50°   | 1951.8  | 1915.7  | 1864.6  | 1870.6  | 1885.7  | 1918.7  | 1915.7  | 1924.8  | 1984.9  | 2078.1  | 2132.3  |
| 52.5° | 1921.8  | 1867.6  | 1810.5  | 1816.5  | 1861.6  | 1900.7  | 1888.7  | 1897.7  | 1966.9  | 2141.3  | 2219.5  |
| 55°   | 1888.7  | 1816.5  | 1750.3  | 1759.4  | 1810.5  | 1867.6  | 1852.6  | 1864.6  | 1945.8  | 2183.4  | 2291.7  |
| 57.5° | 1825.5  | 1741.3  | 1669.1  | 1675.1  | 1750.3  | 1810.5  | 1786.4  | 1801.5  | 1897.7  | 2138.3  | 2252.6  |
| 58°   | 1798.4  | 1726.3  | 1657.1  | 1660.1  | 1732.3  | 1798.4  | 1771.4  | 1783.4  | 1882.7  | 2126.3  | 2234.5  |
| 60°   | 1684.2  | 1642.1  | 1581.9  | 1584.9  | 1654.1  | 1711.2  | 1696.2  | 1708.2  | 1804.5  | 2039.0  | 2120.2  |
| 62.5° | 1527.8  | 1503.7  | 1488.7  | 1488.7  | 1530.8  | 1584.9  | 1600.0  | 1615.0  | 1702.2  | 1843.6  | 1915.7  |
| 65°   | 1359.4  | 1359.4  | 1362.4  | 1362.4  | 1389.4  | 1458.6  | 1467.6  | 1506.7  | 1587.9  | 1657.1  | 1711.2  |
| 67.5° | 1245.1  | 1239.1  | 1245.1  | 1230.0  | 1242.1  | 1284.2  | 1329.3  | 1365.4  | 1449.6  | 1497.7  | 1515.8  |
| 70°   | 1097.7  | 1094.7  | 1097.7  | 1076.7  | 1091.7  | 1127.8  | 1157.9  | 1218.0  | 1305.2  | 1341.3  | 1350.3  |
| 72.5° | 953.4   | 953.4   | 959.4   | 944.3   | 944.3   | 983.4   | 1004.5  | 1070.6  | 1151.8  | 1172.9  | 1175.9  |
| 75°   | 803.0   | 812.0   | 812.0   | 791.0   | 797.0   | 821.0   | 848.1   | 902.2   | 977.4   | 992.5   | 992.5   |
| 77.5° | 637.6   | 670.7   | 670.7   | 649.6   | 658.6   | 661.6   | 697.7   | 724.8   | 781.9   | 787.9   | 763.9   |
| 80°   | 463.1   | 496.2   | 523.3   | 505.3   | 520.3   | 502.2   | 523.3   | 541.3   | 598.5   | 571.4   | 532.3   |
| 82.5° | 330.8   | 354.9   | 375.9   | 378.9   | 363.9   | 330.8   | 357.9   | 360.9   | 388.0   | 351.9   | 330.8   |
| 85°   | 183.5   | 204.5   | 231.6   | 219.5   | 195.5   | 174.4   | 183.5   | 189.5   | 186.5   | 177.4   | 165.4   |
| 87.5° | 48.1    | 51.1    | 57.1    | 42.1    | 39.1    | 33.1    | 45.1    | 45.1    | 51.1    | 54.1    | 51.1    |
| 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):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 |
| 2.5°  | 9741.1  | 9873.4  | 10159.1 | 10375.7 | 10640.3 | 10962.1 | 11341.1 | 11723.0 | 12135.0 | 12264.3 | 12444.8 |
| 5°    | 8059.9  | 8390.8  | 8529.1  | 8923.1  | 9314.0  | 9900.5  | 10526.0 | 11250.8 | 12044.8 | 12426.7 | 12793.7 |
| 7.5°  | 6887.0  | 7064.5  | 7208.8  | 7497.6  | 7966.7  | 8679.5  | 9464.4  | 10369.7 | 11494.4 | 12050.8 | 12589.1 |
| 10°   | 6255.5  | 6273.5  | 6451.0  | 6808.8  | 7217.9  | 7846.4  | 8589.3  | 9602.8  | 10856.9 | 11533.5 | 12165.1 |
| 12.5° | 5837.4  | 5759.2  | 5951.7  | 6324.6  | 6787.8  | 7368.2  | 8050.9  | 9016.3  | 10396.7 | 11091.4 | 11855.3 |
| 15°   | 5470.5  | 5347.2  | 5491.6  | 5873.5  | 6330.7  | 7013.4  | 7747.2  | 8769.7  | 10216.3 | 11025.3 | 11873.4 |
| 17.5° | 5479.6  | 5139.7  | 5190.8  | 5512.6  | 5966.8  | 6661.5  | 7551.7  | 8760.7  | 10490.0 | 11422.3 | 12426.7 |
| 20°   | 6156.2  | 5611.9  | 5380.3  | 5440.5  | 5879.5  | 6637.4  | 7641.9  | 9181.7  | 11389.2 | 12748.5 | 13822.2 |
| 22.5° | 6820.9  | 6493.1  | 6120.1  | 5996.8  | 6237.4  | 7031.4  | 8216.3  | 10177.2 | 13344.0 | 15392.1 | 17331.9 |
| 25°   | 6589.3  | 6869.0  | 6775.8  | 6601.3  | 6655.5  | 7314.1  | 8607.3  | 10995.2 | 14862.8 | 17169.5 | 18992.0 |
| 27.5° | 5272.0  | 5780.3  | 5882.6  | 5879.5  | 5900.6  | 6441.9  | 7741.2  | 10444.8 | 15052.2 | 17509.3 | 19250.6 |
| 30°   | 3705.2  | 3750.3  | 3804.4  | 3909.7  | 4005.9  | 4490.1  | 6057.0  | 9169.7  | 14968.0 | 17662.7 | 19407.0 |
| 32.5° | 2673.6  | 2733.8  | 2808.9  | 2953.3  | 3181.9  | 3798.4  | 5299.1  | 8763.7  | 15413.1 | 18297.3 | 19864.1 |
| 35°   | 2445.0  | 2514.2  | 2586.4  | 2751.8  | 2968.3  | 3539.8  | 4998.4  | 8595.3  | 16143.9 | 19325.8 | 20685.2 |
| 37.5° | 2372.9  | 2451.1  | 2514.2  | 2634.5  | 2808.9  | 3353.3  | 4724.7  | 8481.0  | 16892.8 | 20414.5 | 21785.9 |
| 40°   | 2321.7  | 2412.0  | 2463.1  | 2559.3  | 2679.6  | 3181.9  | 4481.1  | 8390.8  | 17617.6 | 21410.0 | 22670.1 |
| 42.5° | 2276.6  | 2369.9  | 2436.0  | 2505.2  | 2604.4  | 3028.5  | 4264.6  | 8300.5  | 18246.1 | 22375.4 | 23551.3 |
| 45°   | 2222.5  | 2339.8  | 2424.0  | 2478.1  | 2565.3  | 2899.2  | 4099.1  | 8228.4  | 18961.9 | 23232.5 | 24441.5 |
| 47.5° | 2177.4  | 2306.7  | 2412.0  | 2475.1  | 2508.2  | 2808.9  | 3966.8  | 8327.6  | 19822.0 | 24128.7 | 25268.5 |
| 50°   | 2180.4  | 2303.7  | 2436.0  | 2535.3  | 2448.1  | 2733.8  | 3885.6  | 8721.6  | 20940.8 | 25193.3 | 25921.1 |
| 52.5° | 2276.6  | 2427.0  | 2532.3  | 2556.3  | 2363.8  | 2643.5  | 3843.5  | 9410.3  | 22264.1 | 26134.7 | 26579.8 |
| 55°   | 2384.9  | 2541.3  | 2655.6  | 2640.5  | 2318.7  | 2529.3  | 3834.5  | 10144.1 | 23713.7 | 27232.4 | 27436.9 |
| 57.5° | 2345.8  | 2574.4  | 2748.8  | 2670.6  | 2321.7  | 2418.0  | 3795.4  | 10736.6 | 24925.7 | 28053.4 | 28285.0 |
| 58°   | 2333.8  | 2562.3  | 2760.8  | 2664.6  | 2312.7  | 2384.9  | 3786.4  | 10787.7 | 25094.1 | 28110.6 | 28405.3 |
| 60°   | 2216.5  | 2457.1  | 2751.8  | 2619.5  | 2261.6  | 2294.7  | 3687.1  | 10953.1 | 25049.0 | 27815.8 | 28477.5 |
| 62.5° | 2003.0  | 2201.4  | 2544.3  | 2399.9  | 2105.2  | 2174.4  | 3464.6  | 10748.6 | 23828.0 | 26396.3 | 27421.8 |
| 65°   | 1762.4  | 1909.7  | 2138.3  | 2111.2  | 1882.7  | 2051.1  | 3160.8  | 9939.6  | 21382.9 | 24092.6 | 25172.3 |
| 67.5° | 1581.9  | 1702.2  | 1846.6  | 1807.5  | 1693.2  | 1885.7  | 2833.0  | 8571.2  | 18640.1 | 21325.8 | 22685.1 |
| 70°   | 1398.5  | 1491.7  | 1563.9  | 1536.8  | 1500.7  | 1723.3  | 2541.3  | 6956.2  | 16011.6 | 18697.3 | 20014.5 |
| 72.5° | 1212.0  | 1299.2  | 1359.4  | 1320.3  | 1299.2  | 1551.8  | 2303.7  | 5398.4  | 12646.3 | 15425.2 | 17118.4 |
| 75°   | 1013.5  | 1100.7  | 1142.8  | 1097.7  | 1085.7  | 1368.4  | 1951.8  | 4033.0  | 9488.5  | 11891.4 | 13353.0 |
| 77.5° | 784.9   | 878.2   | 932.3   | 917.3   | 923.3   | 1124.8  | 1575.9  | 2760.8  | 6784.8  | 8105.1  | 9644.9  |
| 80°   | 550.4   | 652.6   | 688.7   | 673.7   | 715.8   | 857.1   | 1112.8  | 1753.3  | 4679.6  | 5260.0  | 6345.7  |
| 82.5° | 339.8   | 436.1   | 442.1   | 457.1   | 487.2   | 634.6   | 839.1   | 1067.6  | 2938.3  | 3037.5  | 3825.5  |
| 85°   | 171.4   | 207.5   | 222.6   | 246.6   | 273.7   | 388.0   | 478.2   | 661.6   | 1891.7  | 1431.5  | 2138.3  |
| 87.5° | 57.1    | 60.1    | 72.2    | 90.2    | 111.3   | 159.4   | 204.5   | 270.7   | 469.2   | 258.6   | 661.6   |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 | 11440.3 |
| 2.5°  | 12808.7 | 13064.3 | 13250.8 | 13422.2 | 13256.8 | 13241.8 | 13079.4 | 12817.7 | 12709.4 | 12709.4 |
| 5°    | 13563.6 | 14162.0 | 14646.2 | 14956.0 | 14823.7 | 14504.9 | 13978.6 | 13307.9 | 12947.0 | 12883.9 |
| 7.5°  | 13771.1 | 14953.0 | 15852.2 | 16171.0 | 15948.5 | 15244.7 | 14237.2 | 13106.4 | 12589.1 | 12474.9 |
| 10°   | 13644.8 | 15181.6 | 16501.8 | 17007.1 | 16697.3 | 15632.7 | 14258.3 | 12871.8 | 12234.3 | 12101.9 |
| 12.5° | 13512.4 | 15211.6 | 16622.1 | 17352.9 | 17151.4 | 15945.5 | 14411.7 | 12718.5 | 11981.6 | 11792.2 |
| 15°   | 13608.7 | 15223.7 | 16474.8 | 17229.6 | 17358.9 | 16321.4 | 14664.3 | 12829.7 | 11930.5 | 11729.0 |
| 17.5° | 14216.2 | 15452.2 | 16264.2 | 16874.8 | 17328.9 | 16832.6 | 15383.1 | 13362.1 | 12387.6 | 12138.0 |
| 20°   | 15485.3 | 15999.6 | 16384.5 | 16856.7 | 17587.5 | 17876.2 | 16853.7 | 14823.7 | 13671.8 | 13452.3 |
| 22.5° | 19160.4 | 19067.2 | 18279.2 | 18270.2 | 19328.8 | 20486.7 | 20417.5 | 17795.0 | 16062.7 | 15882.3 |
| 25°   | 20537.8 | 20104.7 | 18964.9 | 18688.2 | 19154.4 | 20940.8 | 20682.2 | 18402.5 | 16802.6 | 16363.5 |
| 27.5° | 19999.5 | 18925.8 | 18177.0 | 18113.8 | 17960.4 | 19647.6 | 20270.2 | 18649.1 | 17061.2 | 16634.2 |
| 30°   | 19966.4 | 18387.5 | 17316.8 | 17443.2 | 17590.5 | 19202.5 | 20498.7 | 19422.1 | 17722.8 | 17265.7 |
| 32.5° | 20047.6 | 18462.7 | 17380.0 | 17404.1 | 17843.1 | 19268.7 | 20751.3 | 20264.1 | 18592.0 | 18134.9 |
| 35°   | 20375.4 | 18889.7 | 17783.0 | 17725.9 | 18411.6 | 19701.7 | 21181.4 | 21587.4 | 19779.9 | 19259.7 |
| 37.5° | 20904.7 | 19740.8 | 18519.8 | 18504.8 | 19500.2 | 20483.7 | 21716.7 | 22922.7 | 20961.9 | 20402.5 |
| 40°   | 21683.6 | 20736.3 | 19831.1 | 19749.9 | 20979.9 | 21755.8 | 22411.4 | 24345.2 | 22336.3 | 21617.5 |
| 42.5° | 22625.0 | 21930.3 | 21560.3 | 21882.1 | 23064.1 | 23184.4 | 23494.1 | 25659.5 | 23506.2 | 22670.1 |
| 45°   | 23497.1 | 23464.1 | 23978.3 | 24832.4 | 25521.1 | 24799.4 | 24624.9 | 26540.7 | 24414.4 | 23506.2 |
| 47.5° | 24534.7 | 25430.9 | 26982.8 | 28233.9 | 28955.6 | 26679.0 | 25590.3 | 27115.1 | 25076.0 | 24240.0 |
| 50°   | 25587.3 | 27785.7 | 30263.9 | 32008.2 | 32161.6 | 28721.1 | 26255.0 | 27656.4 | 25677.5 | 24808.4 |
| 52.5° | 26694.0 | 29665.4 | 32964.6 | 34991.6 | 34693.8 | 30498.5 | 26898.6 | 28023.3 | 26297.1 | 25533.2 |
| 55°   | 27656.4 | 30817.2 | 34474.3 | 36420.1 | 35984.0 | 31581.1 | 27593.3 | 28420.3 | 27181.3 | 26537.7 |
| 57.5° | 28194.8 | 30913.5 | 34098.4 | 35797.6 | 35325.4 | 31370.6 | 27912.1 | 28715.0 | 27746.6 | 27241.4 |
| 58°   | 28273.0 | 30784.2 | 33764.5 | 35436.7 | 34955.5 | 31193.2 | 27909.1 | 28703.0 | 27782.7 | 27274.5 |
| 60°   | 28203.8 | 29945.1 | 32522.5 | 34011.1 | 33505.9 | 30080.4 | 27794.8 | 28477.5 | 27325.6 | 26895.5 |
| 62.5° | 27563.2 | 28489.5 | 30378.2 | 31460.8 | 31316.5 | 28342.1 | 27325.6 | 27626.4 | 25933.2 | 25518.1 |
| 65°   | 26721.1 | 26504.6 | 27632.4 | 28399.3 | 28507.5 | 27039.9 | 26859.5 | 25785.8 | 24146.7 | 23560.3 |
| 67.5° | 25698.6 | 24255.0 | 24252.0 | 24688.1 | 24868.5 | 25036.9 | 25888.1 | 23785.9 | 21572.4 | 20952.8 |
| 70°   | 23963.3 | 20787.4 | 19831.1 | 20345.3 | 20195.0 | 21617.5 | 24152.8 | 20976.9 | 18468.7 | 17743.9 |
| 72.5° | 20781.4 | 16495.8 | 14965.0 | 15626.7 | 15247.7 | 16952.9 | 21133.3 | 17262.7 | 15271.8 | 14381.6 |
| 75°   | 16844.7 | 12339.5 | 10760.6 | 11368.1 | 11133.5 | 12859.8 | 17584.5 | 12538.0 | 10953.1 | 10613.3 |
| 77.5° | 13079.4 | 8941.1  | 8023.9  | 7939.6  | 8114.1  | 9569.7  | 12898.9 | 8465.9  | 7220.9  | 6989.3  |
| 80°   | 8402.8  | 6399.8  | 6454.0  | 6345.7  | 6435.9  | 6032.9  | 7831.4  | 5401.4  | 4890.1  | 4703.6  |
| 82.5° | 5530.7  | 4460.0  | 5317.2  | 4908.1  | 4661.5  | 4057.0  | 5136.7  | 3536.8  | 3001.4  | 2899.2  |
| 85°   | 3768.3  | 3284.1  | 2989.4  | 2285.7  | 2691.7  | 3124.7  | 3852.5  | 1903.7  | 1509.7  | 1368.4  |
| 87.5° | 1702.2  | 1142.8  | 839.1   | 517.3   | 818.0   | 944.3   | 1870.6  | 222.6   | 171.4   | 177.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)