

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: P533592

Luminaire Tested: **GLAN-SA9A-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-735-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28763 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

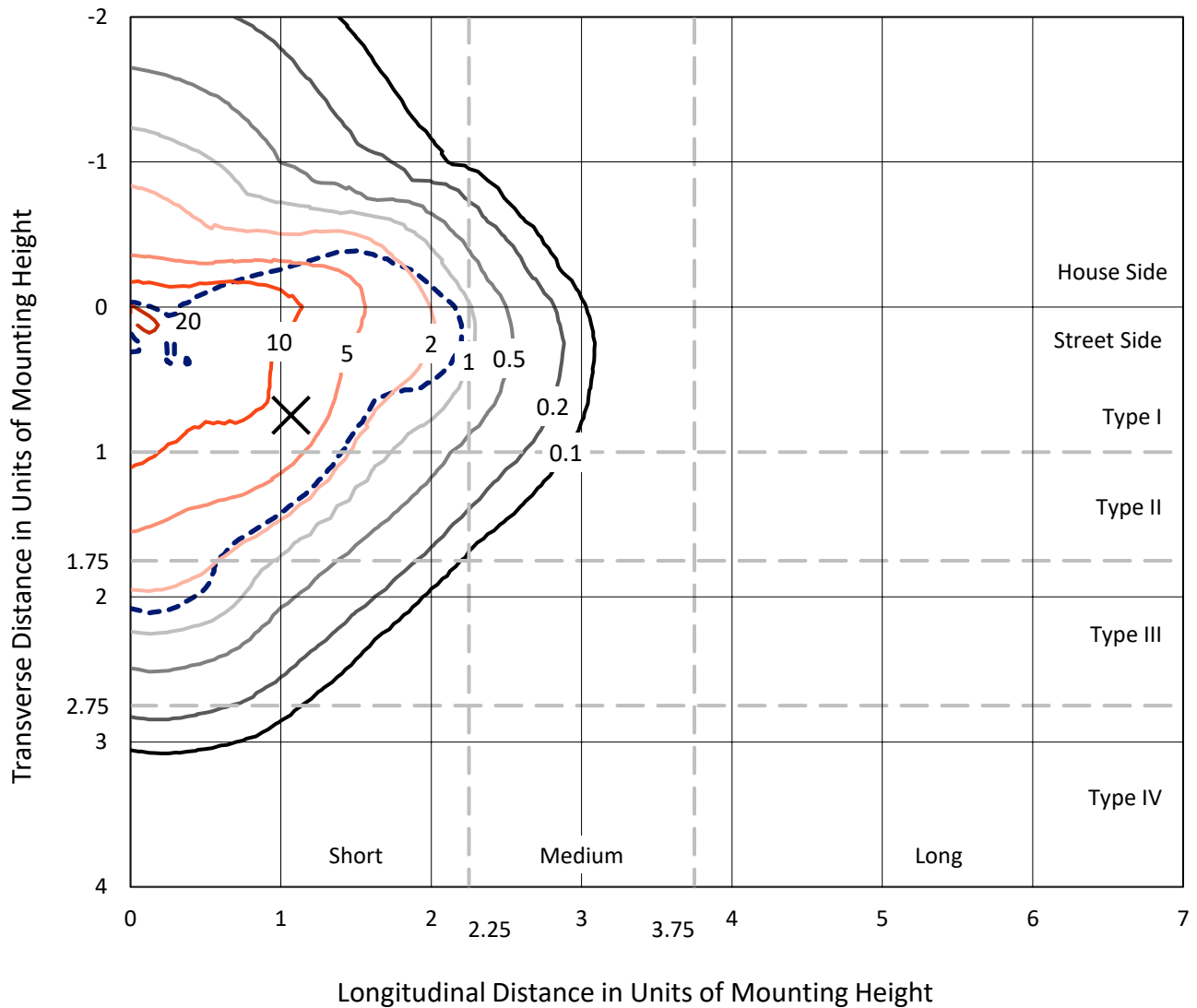
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

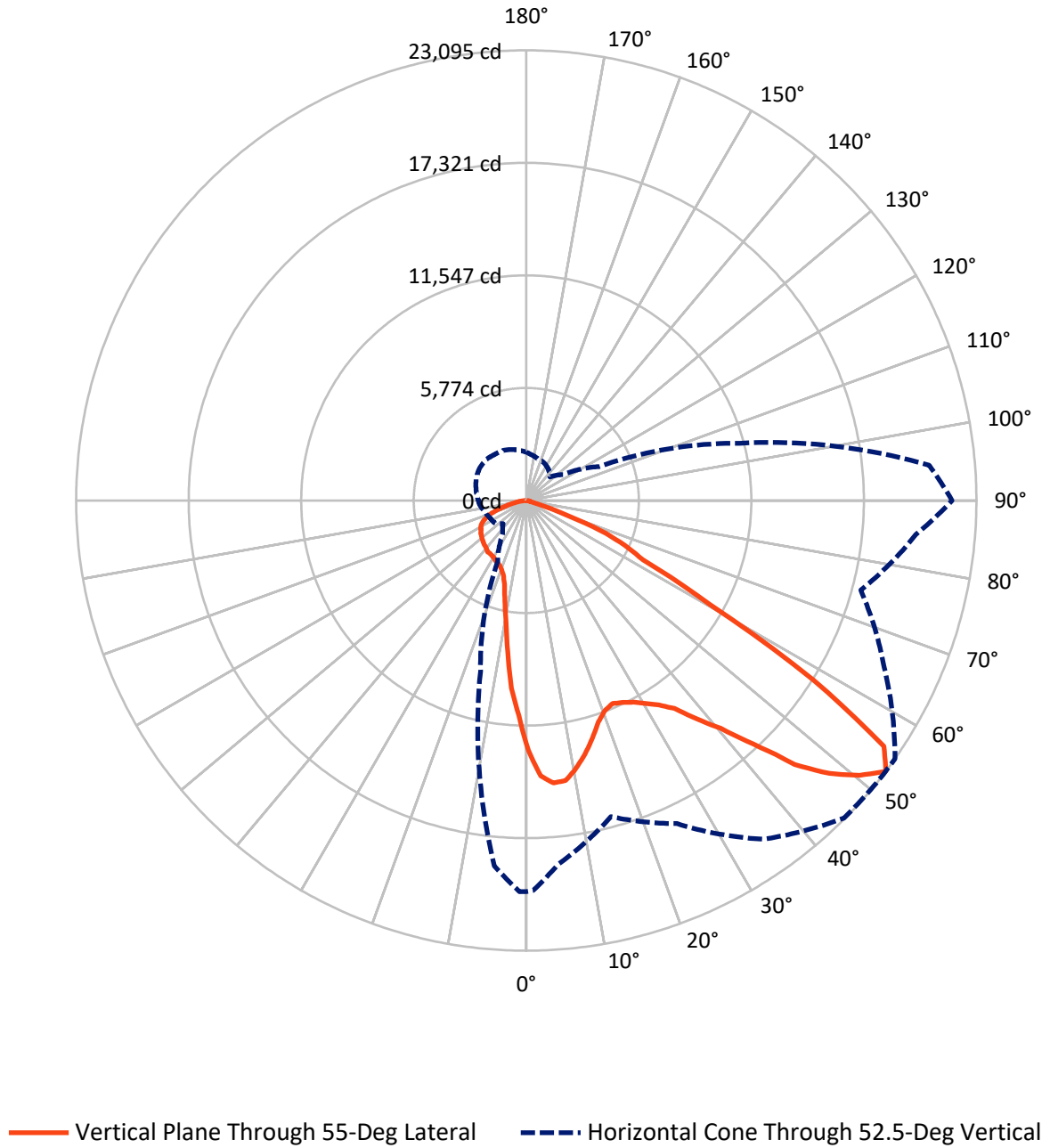
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8774.3   | 0.0    | 8774.3  |
|                    | % Fixture | 30.5     | 0.0    | 30.5    |
| <b>Street Side</b> | Lumens    | 19988.7  | 0.0    | 19988.7 |
|                    | % Fixture | 69.5     | 0.0    | 69.5    |
| <b>Total</b>       | Lumens    | 28763.0  | 0.0    | 28763.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 980.2   | 3.4       |
| 10°-20°   | 2113.5  | 7.3       |
| 20°-30°   | 3204.8  | 11.1      |
| 30°-40°   | 4630.4  | 16.1      |
| 40°-50°   | 6187.4  | 21.5      |
| 50°-60°   | 6906.6  | 24.0      |
| 60°-70°   | 3788.6  | 13.2      |
| 70°-80°   | 819.1   | 2.8       |
| 80°-90°   | 132.5   | 0.5       |
| 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°    | 28763.0 | 100.0     |
| 0°-180°   | 28763.0 | 100.0     |

**Coefficient of Utilization**



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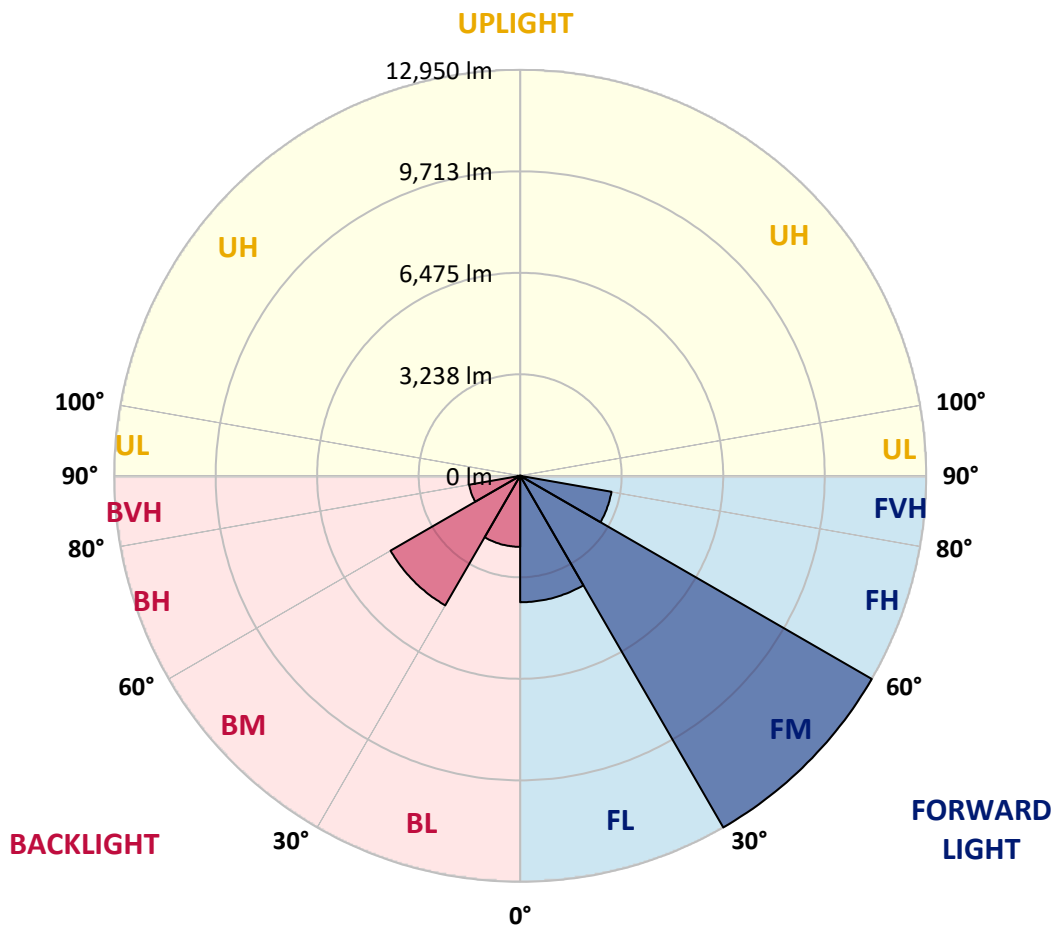
CATALOG NUMBER: GLAN-SA9A-735-U-SLL-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4033.1  | 14.0      |                         |      |         |
| FM (30°-60°)   | 12950.4 | 45.0      |                         |      |         |
| FH (60°-80°)   | 2956.1  | 10.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 49.1    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2265.4  | 7.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 4773.9  | 16.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 1651.5  | 5.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 83.5    | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 |
| 2.5°  | 13464.7 | 13389.1 | 13456.3 | 13775.5 | 13960.3 | 14086.3 | 14166.1 | 14153.5 | 13851.1 | 13557.1 | 13557.1 |
| 5°    | 13069.9 | 12973.3 | 13111.9 | 13834.3 | 14560.9 | 14623.9 | 14728.9 | 14556.7 | 14111.5 | 13573.9 | 12901.9 |
| 7.5°  | 11927.6 | 11999.0 | 12229.9 | 13179.1 | 14124.1 | 14598.7 | 14724.7 | 14506.3 | 13783.9 | 12780.1 | 11793.2 |
| 10°   | 10940.6 | 11108.6 | 11642.0 | 12666.7 | 13536.1 | 14153.5 | 14292.1 | 13985.5 | 13414.3 | 12183.7 | 11301.8 |
| 12.5° | 10600.4 | 10495.4 | 11087.6 | 12112.3 | 12943.9 | 13275.7 | 13338.7 | 13359.7 | 12973.3 | 11881.4 | 10806.2 |
| 15°   | 10558.4 | 10625.6 | 11087.6 | 11864.6 | 12376.9 | 12393.7 | 12498.7 | 12662.5 | 12712.9 | 12087.2 | 11037.2 |
| 17.5° | 11163.2 | 11083.4 | 11558.0 | 12175.3 | 11931.8 | 11688.2 | 11713.4 | 11948.6 | 12364.3 | 12263.5 | 11763.8 |
| 20°   | 12057.8 | 12238.3 | 12612.1 | 12549.1 | 11894.0 | 11276.6 | 11280.8 | 11503.4 | 12322.3 | 12994.3 | 12775.9 |
| 22.5° | 13544.5 | 13720.9 | 13998.1 | 13237.9 | 11894.0 | 11154.8 | 11012.0 | 11314.4 | 12591.1 | 13863.7 | 13918.3 |
| 25°   | 14901.0 | 15224.4 | 15300.0 | 14405.5 | 12490.3 | 11268.2 | 11175.8 | 11474.0 | 12859.9 | 14712.1 | 15228.6 |
| 27.5° | 16135.8 | 16253.4 | 16585.2 | 15157.2 | 12822.1 | 11343.8 | 11335.4 | 11717.6 | 13200.1 | 15136.2 | 16400.4 |
| 30°   | 17110.2 | 17097.6 | 17286.6 | 15631.8 | 13351.3 | 11768.0 | 11360.6 | 12083.0 | 13645.3 | 15837.6 | 17483.9 |
| 32.5° | 17773.7 | 17916.5 | 18315.5 | 16291.2 | 13573.9 | 12171.1 | 11852.0 | 12511.3 | 14187.1 | 16169.4 | 18248.3 |
| 35°   | 18941.3 | 19189.1 | 18685.1 | 16656.6 | 14279.5 | 12570.1 | 12196.3 | 13095.1 | 14455.9 | 16530.6 | 19184.9 |
| 37.5° | 20041.7 | 19852.7 | 19340.3 | 16854.0 | 14737.3 | 13309.3 | 12960.7 | 14224.9 | 15291.6 | 17316.0 | 19806.5 |
| 40°   | 20747.2 | 20743.0 | 19831.7 | 17013.6 | 15060.6 | 14439.1 | 14418.1 | 15371.4 | 16316.4 | 17811.5 | 20503.6 |
| 42.5° | 21053.8 | 21347.8 | 20033.3 | 16996.8 | 15741.0 | 15808.2 | 16232.4 | 17085.0 | 17043.0 | 17912.3 | 20486.8 |
| 44°   | 21473.8 | 21650.2 | 20381.8 | 17034.6 | 16194.6 | 16732.2 | 17731.7 | 18273.5 | 17677.1 | 17857.7 | 20465.8 |
| 45°   | 21457.0 | 21469.6 | 19886.3 | 17085.0 | 16581.0 | 17504.9 | 18399.5 | 19315.1 | 18235.7 | 17740.1 | 20743.0 |
| 47.5° | 20965.6 | 20822.8 | 19466.3 | 16711.2 | 17786.3 | 19546.1 | 20373.4 | 20927.8 | 18924.5 | 17488.1 | 20398.6 |
| 50°   | 19995.5 | 19831.7 | 18445.7 | 16551.6 | 18038.3 | 20814.4 | 21956.8 | 22158.4 | 19550.3 | 17240.4 | 20058.5 |
| 52.5° | 20062.7 | 20016.5 | 18735.5 | 16791.0 | 18290.3 | 21213.4 | 23044.5 | 23094.9 | 20260.0 | 17761.1 | 20062.7 |
| 55°   | 21263.8 | 21104.2 | 19567.1 | 17089.2 | 18105.5 | 20747.2 | 22351.6 | 22263.4 | 20020.7 | 17446.2 | 20432.2 |
| 57.5° | 19457.9 | 19562.9 | 18416.3 | 15909.0 | 15846.0 | 16866.6 | 17572.1 | 17353.8 | 16707.0 | 15745.2 | 19008.5 |
| 60°   | 15699.0 | 15997.2 | 16106.4 | 13305.1 | 11957.0 | 11432.0 | 11222.0 | 10835.6 | 10944.8 | 12935.5 | 16698.6 |
| 62.5° | 13464.7 | 13447.9 | 14132.5 | 12062.0 | 7832.7  | 6736.5  | 6635.8  | 6723.9  | 7983.9  | 12733.9 | 16354.2 |
| 65°   | 10676.0 | 10961.6 | 11171.6 | 10222.4 | 6199.0  | 5002.0  | 4997.8  | 5556.4  | 6908.7  | 10642.4 | 13204.3 |
| 67.5° | 6778.5  | 7152.3  | 7412.7  | 6539.2  | 4145.2  | 3561.5  | 3464.9  | 4136.8  | 4787.8  | 6980.1  | 7950.3  |
| 70°   | 3821.9  | 3998.3  | 4115.8  | 3771.5  | 2637.5  | 1847.9  | 1738.7  | 1898.3  | 2893.7  | 4519.0  | 4712.2  |
| 72.5° | 1474.1  | 1553.9  | 1713.5  | 1726.1  | 995.4   | 596.4   | 483.0   | 579.6   | 1218.0  | 1789.1  | 1705.1  |
| 75°   | 226.8   | 243.6   | 344.4   | 411.6   | 285.6   | 218.4   | 231.0   | 239.4   | 340.2   | 462.0   | 386.4   |
| 77.5° | 109.2   | 109.2   | 105.0   | 121.8   | 142.8   | 155.4   | 168.0   | 184.8   | 201.6   | 222.6   | 214.2   |
| 80°   | 71.4    | 71.4    | 71.4    | 84.0    | 105.0   | 126.0   | 142.8   | 151.2   | 159.6   | 176.4   | 168.0   |
| 82.5° | 46.2    | 46.2    | 46.2    | 63.0    | 84.0    | 105.0   | 113.4   | 134.4   | 151.2   | 176.4   | 163.8   |
| 85°   | 25.2    | 25.2    | 25.2    | 42.0    | 63.0    | 88.2    | 84.0    | 67.2    | 37.8    | 4.2     | 8.4     |
| 87.5° | 8.4     | 8.4     | 8.4     | 8.4     | 0.0     | 0.0     | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 |
| 2.5°  | 13204.3 | 13011.1 | 12994.3 | 12599.5 | 12246.7 | 12074.6 | 11936.0 | 11549.6 | 11633.6 | 11411.0 | 11406.8 |
| 5°    | 12565.9 | 12171.1 | 11532.8 | 11007.8 | 10482.8 | 10377.8 | 9920.0  | 9521.0  | 9533.6  | 9248.1  | 9298.5  |
| 7.5°  | 11419.4 | 11146.4 | 10369.4 | 9546.2  | 8849.1  | 8353.5  | 7920.9  | 7660.5  | 7328.7  | 7215.3  | 7156.5  |
| 10°   | 10692.8 | 10356.8 | 9483.2  | 8450.1  | 7668.9  | 7404.3  | 6988.5  | 6757.5  | 6417.4  | 6249.4  | 6131.8  |
| 12.5° | 10373.6 | 9882.2  | 8790.3  | 7740.3  | 7219.5  | 6946.5  | 6593.8  | 6173.8  | 5770.6  | 5615.2  | 5401.0  |
| 15°   | 10407.2 | 9819.2  | 8588.7  | 7454.7  | 6828.9  | 6299.8  | 5984.8  | 5518.6  | 5107.0  | 4834.0  | 4678.6  |
| 17.5° | 10915.4 | 10201.4 | 8681.1  | 7236.3  | 6337.6  | 5674.0  | 5056.6  | 4552.6  | 4225.0  | 4019.3  | 3968.9  |
| 20°   | 12116.5 | 11146.4 | 8836.5  | 6883.5  | 5846.2  | 5018.8  | 4258.6  | 3733.7  | 3481.7  | 3477.5  | 3481.7  |
| 22.5° | 13116.1 | 12154.3 | 9151.5  | 6673.6  | 5354.8  | 4178.8  | 3422.9  | 3254.9  | 3204.5  | 3309.5  | 3322.1  |
| 25°   | 14464.3 | 13288.3 | 9693.2  | 6564.4  | 4901.2  | 3561.5  | 3095.3  | 3032.3  | 3028.1  | 3162.5  | 3166.7  |
| 27.5° | 15846.0 | 14279.5 | 10016.6 | 6245.2  | 4439.2  | 3242.3  | 2897.9  | 2885.3  | 2952.5  | 3095.3  | 3082.7  |
| 30°   | 16786.8 | 15111.0 | 10600.4 | 5863.0  | 3893.3  | 2960.9  | 2818.1  | 2834.9  | 2927.3  | 3036.5  | 3053.3  |
| 32.5° | 17882.9 | 15930.0 | 10751.6 | 5653.0  | 3557.3  | 2725.7  | 2624.9  | 2662.7  | 2780.3  | 2952.5  | 3044.9  |
| 35°   | 19138.7 | 16509.6 | 10982.6 | 5367.4  | 3431.3  | 2545.1  | 2494.7  | 2536.7  | 2679.5  | 2792.9  | 2893.7  |
| 37.5° | 20066.9 | 17534.3 | 11024.6 | 5144.8  | 3292.7  | 2444.3  | 2364.5  | 2503.1  | 2587.1  | 2746.7  | 2797.1  |
| 40°   | 20755.6 | 18277.7 | 11133.8 | 5006.2  | 3183.5  | 2314.1  | 2314.1  | 2406.5  | 2519.9  | 2666.9  | 2767.7  |
| 42.5° | 21196.6 | 18819.5 | 11213.6 | 4880.2  | 2973.5  | 2276.3  | 2255.3  | 2347.7  | 2498.9  | 2641.7  | 2687.9  |
| 44°   | 21465.4 | 19050.5 | 11133.8 | 4762.6  | 2914.7  | 2230.1  | 2230.1  | 2309.9  | 2427.5  | 2595.5  | 2650.1  |
| 45°   | 21532.6 | 19340.3 | 10957.4 | 4758.4  | 2843.3  | 2175.5  | 2167.1  | 2318.3  | 2398.1  | 2603.9  | 2637.5  |
| 47.5° | 21793.0 | 19697.3 | 10978.4 | 4624.0  | 2671.1  | 2045.3  | 2192.3  | 2259.5  | 2330.9  | 2511.5  | 2624.9  |
| 50°   | 21784.6 | 19919.9 | 10932.2 | 4426.6  | 2545.1  | 1898.3  | 2141.9  | 2217.5  | 2288.9  | 2473.7  | 2519.9  |
| 52.5° | 21843.4 | 20751.4 | 11356.4 | 4111.6  | 2318.3  | 1709.3  | 1973.9  | 2141.9  | 2230.1  | 2385.5  | 2482.1  |
| 55°   | 21814.0 | 21226.0 | 11776.4 | 3876.5  | 1999.1  | 1595.9  | 1831.1  | 2028.5  | 2154.5  | 2318.3  | 2364.5  |
| 57.5° | 19924.1 | 18760.7 | 10898.6 | 3435.5  | 1654.7  | 1461.5  | 1629.5  | 1910.9  | 2070.5  | 2238.5  | 2297.3  |
| 60°   | 16278.6 | 14460.1 | 8987.7  | 2528.3  | 1360.7  | 1344.0  | 1516.1  | 1873.1  | 1940.3  | 2087.3  | 2188.1  |
| 62.5° | 15043.8 | 12683.5 | 7127.1  | 1931.9  | 1163.4  | 1230.6  | 1398.5  | 1692.5  | 1797.5  | 1978.1  | 2070.5  |
| 65°   | 11772.2 | 8424.9  | 4414.0  | 1306.2  | 1024.8  | 1104.6  | 1264.2  | 1482.5  | 1654.7  | 1822.7  | 1931.9  |
| 67.5° | 6971.7  | 4603.0  | 2183.9  | 915.6   | 894.6   | 978.6   | 1142.4  | 1306.2  | 1503.5  | 1688.3  | 1742.9  |
| 70°   | 3796.7  | 2263.7  | 932.4   | 697.2   | 760.2   | 835.8   | 995.4   | 1108.8  | 1297.8  | 1440.5  | 1532.9  |
| 72.5° | 1218.0  | 688.8   | 466.2   | 516.6   | 579.6   | 667.8   | 764.4   | 903.0   | 1037.4  | 1121.4  | 1197.0  |
| 75°   | 294.0   | 289.8   | 331.8   | 361.2   | 420.0   | 487.2   | 567.0   | 638.4   | 743.4   | 823.2   | 890.4   |
| 77.5° | 205.8   | 222.6   | 256.2   | 298.2   | 319.2   | 344.4   | 394.8   | 449.4   | 495.6   | 554.4   | 596.4   |
| 80°   | 159.6   | 172.2   | 197.4   | 218.4   | 239.4   | 260.4   | 285.6   | 306.6   | 336.0   | 373.8   | 394.8   |
| 82.5° | 151.2   | 159.6   | 184.8   | 197.4   | 189.0   | 184.8   | 201.6   | 210.0   | 214.2   | 226.8   | 239.4   |
| 85°   | 12.6    | 0.0     | 8.4     | 29.4    | 71.4    | 105.0   | 113.4   | 113.4   | 109.2   | 117.6   | 117.6   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 4.2     | 16.8    | 12.6    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 |
| 2.5°  | 11356.4 | 11213.6 | 11268.2 | 11335.4 | 11238.8 | 11016.2 | 11075.0 | 11049.8 | 11276.6 | 11259.8 | 11486.6 |
| 5°    | 9521.0  | 9298.5  | 9323.7  | 9651.2  | 9546.2  | 9659.6  | 9432.8  | 9403.5  | 9445.4  | 9466.4  | 9504.2  |
| 7.5°  | 7286.7  | 7257.3  | 7509.3  | 7786.5  | 7916.7  | 7782.3  | 7559.7  | 7509.3  | 7463.1  | 7370.7  | 7580.7  |
| 10°   | 5947.0  | 5955.4  | 5938.6  | 6148.6  | 6295.6  | 6266.2  | 6131.8  | 6115.0  | 6026.8  | 5993.2  | 6110.8  |
| 12.5° | 5308.6  | 5195.2  | 5140.6  | 5073.4  | 5186.8  | 5262.4  | 5203.6  | 5161.6  | 5165.8  | 5207.8  | 5224.6  |
| 15°   | 4691.2  | 4619.8  | 4502.2  | 4426.6  | 4481.2  | 4443.4  | 4422.4  | 4506.4  | 4485.4  | 4477.0  | 4577.8  |
| 17.5° | 3998.3  | 4057.0  | 4048.6  | 3964.7  | 4036.0  | 4006.7  | 4002.5  | 3943.7  | 3863.9  | 3805.1  | 3838.7  |
| 20°   | 3540.5  | 3649.7  | 3733.7  | 3737.9  | 3775.7  | 3771.5  | 3708.5  | 3527.9  | 3469.1  | 3456.5  | 3464.9  |
| 22.5° | 3376.7  | 3435.5  | 3536.3  | 3679.1  | 3679.1  | 3611.9  | 3536.3  | 3326.3  | 3271.7  | 3212.9  | 3187.7  |
| 25°   | 3246.5  | 3359.9  | 3490.1  | 3506.9  | 3574.1  | 3511.1  | 3389.3  | 3284.3  | 3170.9  | 3091.1  | 3091.1  |
| 27.5° | 3179.3  | 3305.3  | 3401.9  | 3431.3  | 3523.7  | 3473.3  | 3347.3  | 3212.9  | 3078.5  | 3074.3  | 3002.9  |
| 30°   | 3149.9  | 3267.5  | 3330.5  | 3401.9  | 3443.9  | 3364.1  | 3326.3  | 3183.5  | 3049.1  | 3015.5  | 2897.9  |
| 32.5° | 3061.7  | 3229.7  | 3347.3  | 3330.5  | 3364.1  | 3330.5  | 3275.9  | 3158.3  | 3007.1  | 2931.5  | 2918.9  |
| 35°   | 2960.9  | 3128.9  | 3254.9  | 3343.1  | 3364.1  | 3292.7  | 3259.1  | 3099.5  | 2893.7  | 2855.9  | 2725.7  |
| 37.5° | 2906.3  | 3007.1  | 3162.5  | 3305.3  | 3334.7  | 3296.9  | 3183.5  | 3019.7  | 2813.9  | 2771.9  | 2658.5  |
| 40°   | 2839.1  | 2969.3  | 3091.1  | 3208.7  | 3296.9  | 3204.5  | 3074.3  | 2914.7  | 2822.3  | 2696.3  | 2662.7  |
| 42.5° | 2788.7  | 2935.7  | 3036.5  | 3166.7  | 3267.5  | 3145.7  | 2994.5  | 2885.3  | 2755.1  | 2671.1  | 2574.5  |
| 44°   | 2771.9  | 2906.3  | 2973.5  | 3133.1  | 3217.1  | 3124.7  | 2998.7  | 2885.3  | 2734.1  | 2658.5  | 2574.5  |
| 45°   | 2713.1  | 2897.9  | 2969.3  | 3112.1  | 3183.5  | 3107.9  | 2948.3  | 2834.9  | 2725.7  | 2633.3  | 2545.1  |
| 47.5° | 2654.3  | 2780.3  | 2902.1  | 3015.5  | 3065.9  | 3040.7  | 2906.3  | 2767.7  | 2637.5  | 2582.9  | 2498.9  |
| 50°   | 2637.5  | 2763.5  | 2876.9  | 2981.9  | 3040.7  | 2990.3  | 2868.5  | 2734.1  | 2582.9  | 2494.7  | 2423.3  |
| 52.5° | 2553.5  | 2708.9  | 2834.9  | 2868.5  | 2944.1  | 2914.7  | 2822.3  | 2675.3  | 2532.5  | 2456.9  | 2398.1  |
| 55°   | 2431.7  | 2595.5  | 2767.7  | 2809.7  | 2918.9  | 2872.7  | 2734.1  | 2595.5  | 2473.7  | 2360.3  | 2284.7  |
| 57.5° | 2385.5  | 2545.1  | 2713.1  | 2767.7  | 2834.9  | 2759.3  | 2725.7  | 2578.7  | 2385.5  | 2326.7  | 2209.1  |
| 60°   | 2267.9  | 2469.5  | 2608.1  | 2734.1  | 2738.3  | 2717.3  | 2658.5  | 2490.5  | 2330.9  | 2221.7  | 2137.7  |
| 62.5° | 2175.5  | 2364.5  | 2473.7  | 2591.3  | 2662.7  | 2603.9  | 2545.1  | 2389.7  | 2217.5  | 2095.7  | 1999.1  |
| 65°   | 2041.1  | 2213.3  | 2305.7  | 2377.1  | 2456.9  | 2448.5  | 2347.7  | 2234.3  | 2053.7  | 1957.1  | 1864.7  |
| 67.5° | 1835.3  | 1986.5  | 2112.5  | 2179.7  | 2230.1  | 2217.5  | 2141.9  | 2062.1  | 1877.3  | 1780.7  | 1713.5  |
| 70°   | 1587.5  | 1742.9  | 1822.7  | 1860.5  | 1910.9  | 1936.1  | 1877.3  | 1839.5  | 1675.7  | 1549.7  | 1486.7  |
| 72.5° | 1276.8  | 1377.5  | 1495.1  | 1528.7  | 1549.7  | 1566.5  | 1566.5  | 1532.9  | 1364.9  | 1314.6  | 1205.4  |
| 75°   | 940.8   | 1020.6  | 1108.8  | 1108.8  | 1146.6  | 1150.8  | 1159.2  | 1138.2  | 1012.2  | 945.0   | 919.8   |
| 77.5° | 638.4   | 697.2   | 768.6   | 798.0   | 823.2   | 819.0   | 814.8   | 756.0   | 688.8   | 659.4   | 634.2   |
| 80°   | 415.8   | 474.6   | 508.2   | 546.0   | 571.2   | 567.0   | 575.4   | 533.4   | 504.0   | 453.6   | 462.0   |
| 82.5° | 247.8   | 294.0   | 327.6   | 373.8   | 373.8   | 386.4   | 386.4   | 373.8   | 344.4   | 319.2   | 319.2   |
| 85°   | 117.6   | 155.4   | 176.4   | 205.8   | 222.6   | 226.8   | 201.6   | 172.2   | 142.8   | 130.2   | 142.8   |
| 87.5° | 21.0    | 29.4    | 42.0    | 37.8    | 46.2    | 42.0    | 42.0    | 42.0    | 42.0    | 33.6    | 37.8    |
| 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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|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 | 12830.5 |
| 2.5°  | 11402.6 | 11612.6 | 11759.6 | 12003.2 | 12423.1 | 12759.1 | 13103.5 | 13359.7 | 13389.1 | 13464.7 |
| 5°    | 9642.8  | 9756.2  | 10130.0 | 10617.2 | 10961.6 | 11528.6 | 11894.0 | 12557.5 | 12805.3 | 13069.9 |
| 7.5°  | 7530.3  | 7715.1  | 8214.9  | 8542.5  | 9298.5  | 10008.2 | 10743.2 | 11562.2 | 11889.8 | 11927.6 |
| 10°   | 6350.2  | 6619.0  | 6959.1  | 7484.1  | 7895.7  | 8685.3  | 9600.8  | 10512.2 | 10877.6 | 10940.6 |
| 12.5° | 5577.4  | 5921.8  | 6375.4  | 6753.3  | 7148.1  | 7836.9  | 8714.7  | 9840.2  | 10314.8 | 10600.4 |
| 15°   | 4834.0  | 5191.0  | 5690.8  | 6215.8  | 6564.4  | 7387.5  | 8420.7  | 9689.0  | 10306.4 | 10558.4 |
| 17.5° | 4069.6  | 4401.4  | 4813.0  | 5380.0  | 6081.4  | 7005.3  | 8374.5  | 10193.0 | 10869.2 | 11163.2 |
| 20°   | 3414.5  | 3599.3  | 4078.0  | 4661.8  | 5539.6  | 6614.8  | 8391.3  | 10936.4 | 11927.6 | 12057.8 |
| 22.5° | 3158.3  | 3200.3  | 3389.3  | 3926.9  | 4888.6  | 6215.8  | 8689.5  | 11990.6 | 13116.1 | 13544.5 |
| 25°   | 2960.9  | 2952.5  | 3002.9  | 3364.1  | 4414.0  | 6060.4  | 8983.5  | 12960.7 | 14434.9 | 14901.0 |
| 27.5° | 2851.7  | 2767.7  | 2771.9  | 3112.1  | 4078.0  | 5808.4  | 9361.5  | 14073.7 | 15930.0 | 16135.8 |
| 30°   | 2797.1  | 2780.3  | 2729.9  | 2868.5  | 3712.7  | 5430.4  | 9424.4  | 15169.8 | 16812.0 | 17110.2 |
| 32.5° | 2763.5  | 2599.7  | 2536.7  | 2587.1  | 3368.3  | 5018.8  | 9659.6  | 15892.2 | 17903.9 | 17773.7 |
| 35°   | 2595.5  | 2448.5  | 2406.5  | 2456.9  | 3124.7  | 4787.8  | 9504.2  | 16522.2 | 18722.9 | 18941.3 |
| 37.5° | 2532.5  | 2402.3  | 2318.3  | 2276.3  | 2897.9  | 4594.6  | 9424.4  | 17492.3 | 19516.7 | 20041.7 |
| 40°   | 2473.7  | 2335.1  | 2234.3  | 2192.3  | 2721.5  | 4338.4  | 9399.3  | 18239.9 | 20432.2 | 20747.2 |
| 42.5° | 2406.5  | 2318.3  | 2204.9  | 2129.3  | 2507.3  | 4082.2  | 9109.5  | 18470.9 | 20713.6 | 21053.8 |
| 44°   | 2385.5  | 2251.1  | 2133.5  | 2108.3  | 2423.3  | 3952.1  | 9050.7  | 18680.9 | 20957.2 | 21473.8 |
| 45°   | 2364.5  | 2238.5  | 2104.1  | 2070.5  | 2393.9  | 3880.7  | 8970.9  | 18731.3 | 21360.4 | 21457.0 |
| 47.5° | 2305.7  | 2225.9  | 2095.7  | 2003.3  | 2330.9  | 3725.3  | 8731.5  | 18445.7 | 20948.8 | 20965.6 |
| 50°   | 2259.5  | 2167.1  | 2032.7  | 1852.1  | 2246.9  | 3595.1  | 8840.7  | 18340.7 | 19957.7 | 19995.5 |
| 52.5° | 2209.1  | 2070.5  | 1994.9  | 1684.1  | 2108.3  | 3485.9  | 9071.7  | 18815.3 | 20071.1 | 20062.7 |
| 55°   | 2150.3  | 1999.1  | 1814.3  | 1541.3  | 1877.3  | 3347.3  | 9630.2  | 19751.9 | 21121.0 | 21263.8 |
| 57.5° | 2057.9  | 1927.7  | 1663.1  | 1415.3  | 1612.7  | 3082.7  | 9449.6  | 17958.5 | 19432.7 | 19457.9 |
| 60°   | 1936.1  | 1814.3  | 1507.7  | 1318.8  | 1323.0  | 2431.7  | 8450.1  | 13993.9 | 15333.6 | 15699.0 |
| 62.5° | 1818.5  | 1751.3  | 1377.5  | 1180.2  | 1125.6  | 1936.1  | 7143.9  | 11629.4 | 13162.3 | 13464.7 |
| 65°   | 1679.9  | 1516.1  | 1264.2  | 1075.2  | 966.0   | 1356.5  | 5060.8  | 8689.5  | 10268.6 | 10676.0 |
| 67.5° | 1503.5  | 1327.2  | 1113.0  | 945.0   | 827.4   | 907.2   | 2612.3  | 4939.0  | 6539.2  | 6778.5  |
| 70°   | 1314.6  | 1150.8  | 936.6   | 798.0   | 667.8   | 625.8   | 1150.8  | 2356.1  | 3574.1  | 3821.9  |
| 72.5° | 1079.4  | 928.2   | 747.6   | 630.0   | 499.8   | 432.6   | 386.4   | 630.0   | 1268.4  | 1474.1  |
| 75°   | 781.2   | 676.2   | 562.8   | 449.4   | 352.8   | 277.2   | 226.8   | 189.0   | 210.0   | 226.8   |
| 77.5° | 575.4   | 491.4   | 415.8   | 319.2   | 247.8   | 197.4   | 155.4   | 117.6   | 113.4   | 109.2   |
| 80°   | 449.4   | 399.0   | 331.8   | 256.2   | 193.2   | 147.0   | 109.2   | 79.8    | 71.4    | 71.4    |
| 82.5° | 352.8   | 327.6   | 273.0   | 210.0   | 159.6   | 117.6   | 79.8    | 54.6    | 46.2    | 46.2    |
| 85°   | 134.4   | 134.4   | 197.4   | 172.2   | 121.8   | 84.0    | 54.6    | 29.4    | 25.2    | 25.2    |
| 87.5° | 33.6    | 33.6    | 33.6    | 33.6    | 29.4    | 25.2    | 25.2    | 12.6    | 8.4     | 8.4     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)