

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: P319133

Luminaire Tested: **GAN-SA9C-760-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-760-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62791 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 501  
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

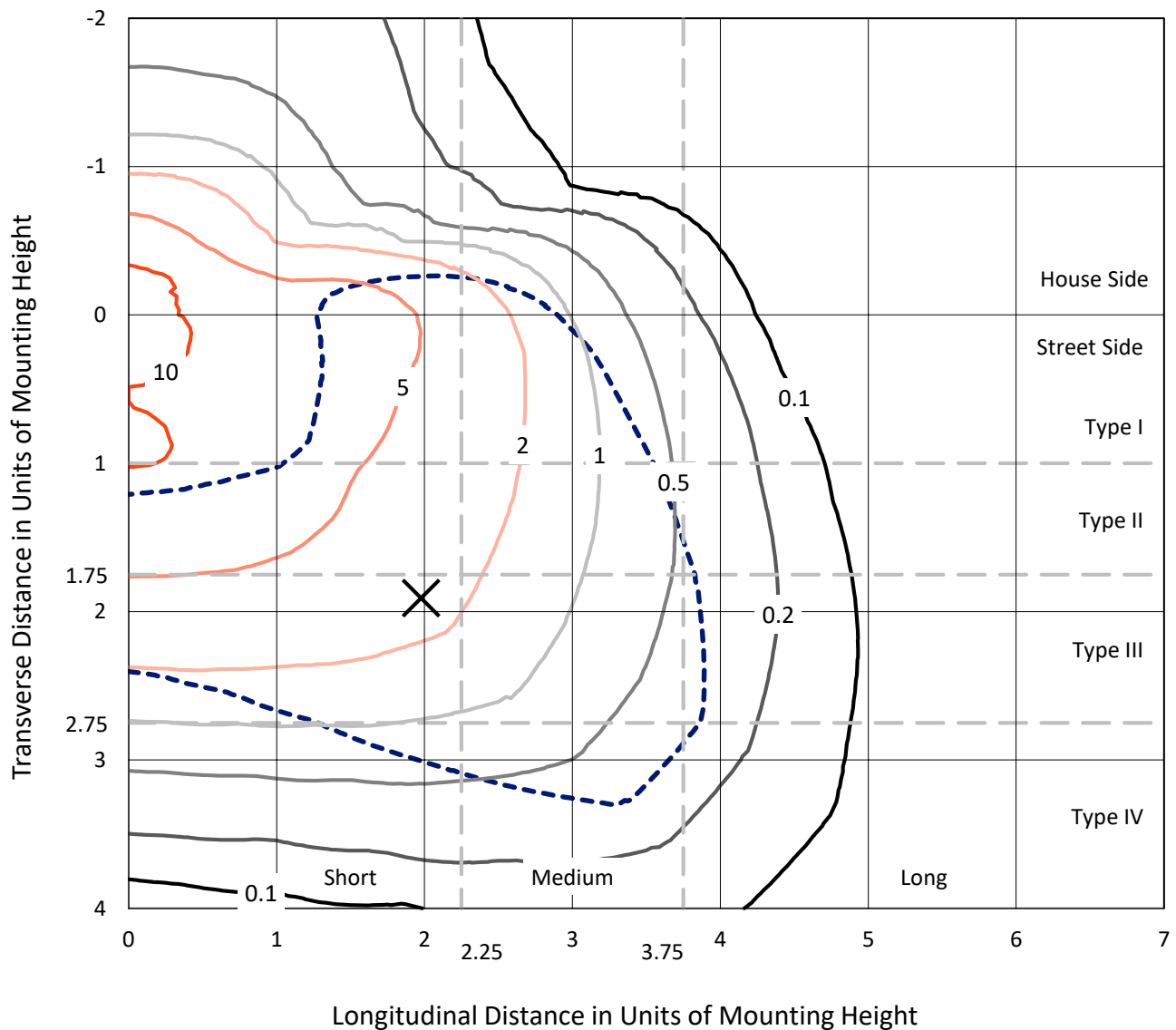


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## Iso-Footcandle Lines of Horizontal Illumination

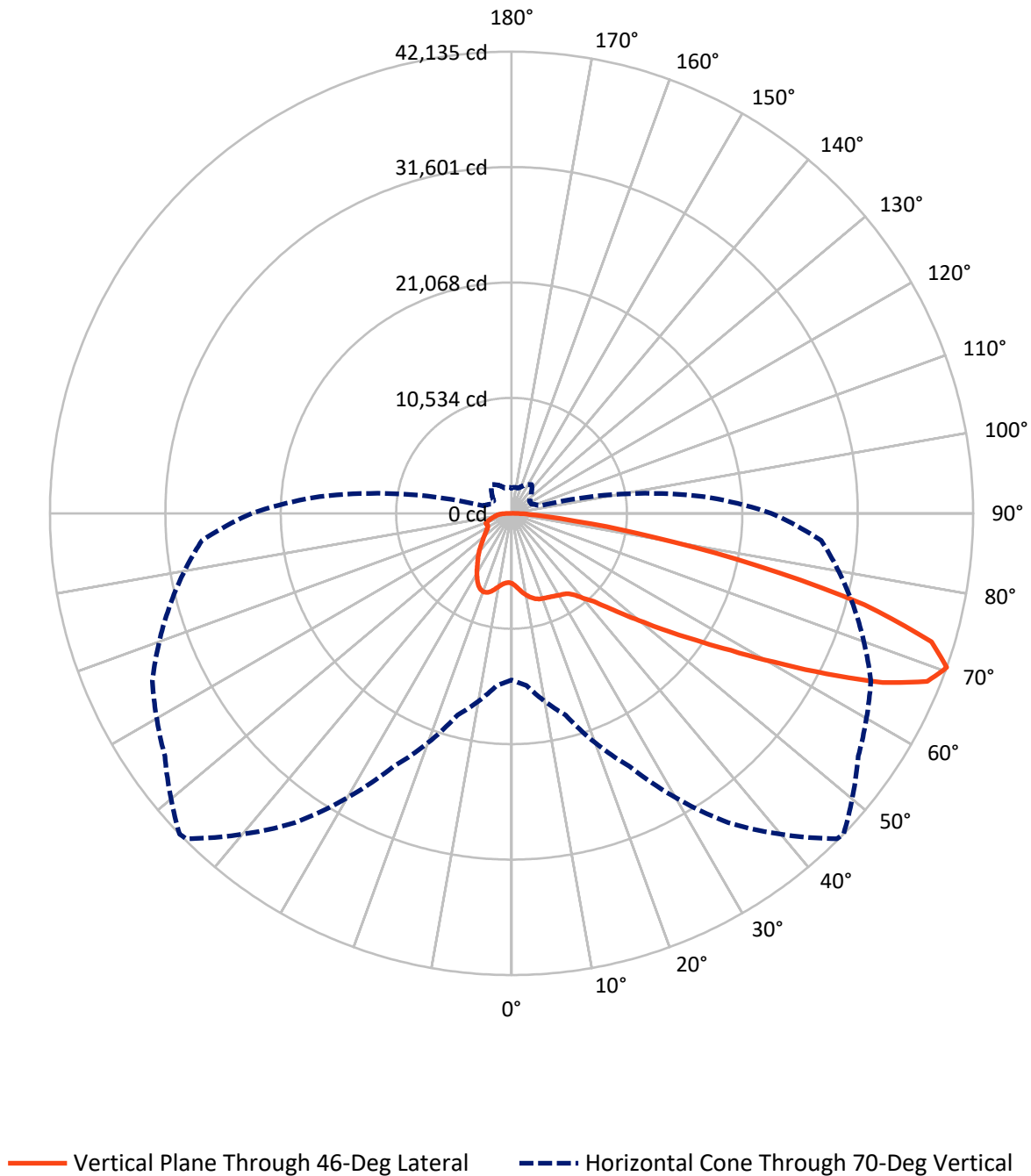
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type IV - 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    | 14391.5  | 0.0    | 14391.5 |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 48399.5  | 0.0    | 48399.5 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 62791.0  | 0.0    | 62791.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 652.1   | 1.0       |
| 10°-20°   | 2172.8  | 3.5       |
| 20°-30°   | 3622.8  | 5.8       |
| 30°-40°   | 5141.0  | 8.2       |
| 40°-50°   | 7562.1  | 12.0      |
| 50°-60°   | 12806.4 | 20.4      |
| 60°-70°   | 18178.5 | 29.0      |
| 70°-80°   | 11043.6 | 17.6      |
| 80°-90°   | 1611.7  | 2.6       |
| 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°    | 62791.0 | 100.0     |
| 0°-180°   | 62791.0 | 100.0     |

**Coefficient of Utilization**



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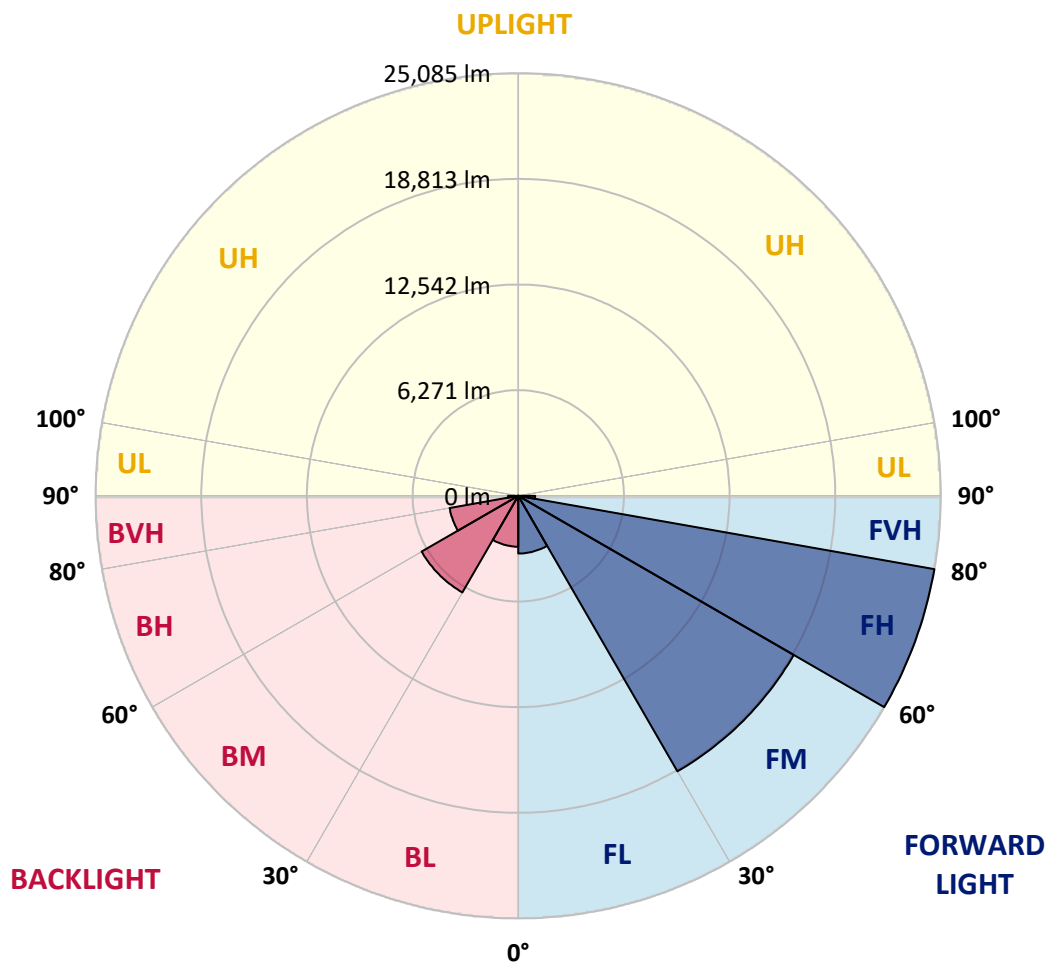
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3426.2  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 18884.7 | 30.1      |                         |      |         |
| FH   | (60°-80°)   | 25084.6 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 1003.9  | 1.6       |                         |      | G5      |
| BL   | (0°-30°)    | 3021.5  | 4.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6624.8  | 10.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4137.4  | 6.6       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 607.7   | 1.0       |                         |      | G4/750  |
| 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°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6397.2  | 6397.2  | 6397.2  | 6397.2  | 6397.2  | 6397.2  | 6397.2  | 6397.2  | 6397.2  | 6397.2  | 6397.2  |
| 2.5°  | 6717.4  | 6721.7  | 6730.2  | 6708.8  | 6648.6  | 6631.4  | 6625.0  | 6562.6  | 6521.8  | 6461.6  | 6410.1  |
| 5°    | 7254.6  | 7258.9  | 7246.0  | 7185.8  | 7052.6  | 6953.7  | 6945.1  | 6803.3  | 6674.4  | 6536.9  | 6433.7  |
| 7.5°  | 7815.4  | 7821.9  | 7781.0  | 7667.2  | 7480.2  | 7308.3  | 7297.5  | 7104.2  | 6908.6  | 6700.2  | 6545.4  |
| 10°   | 8311.8  | 8286.0  | 8219.4  | 8060.4  | 7839.1  | 7628.5  | 7619.9  | 7417.9  | 7192.3  | 6940.8  | 6734.5  |
| 12.5° | 8642.7  | 8621.3  | 8535.3  | 8341.9  | 8099.1  | 7905.7  | 7888.5  | 7701.5  | 7482.4  | 7207.3  | 6960.2  |
| 15°   | 8825.4  | 8840.4  | 8724.4  | 8505.2  | 8268.8  | 8105.5  | 8090.5  | 7957.3  | 7761.7  | 7484.5  | 7200.8  |
| 17.5° | 8849.0  | 8861.9  | 8750.2  | 8533.1  | 8339.7  | 8228.0  | 8221.6  | 8133.5  | 7991.6  | 7725.2  | 7428.6  |
| 20°   | 8711.5  | 8720.1  | 8627.7  | 8449.3  | 8322.6  | 8288.2  | 8286.0  | 8247.3  | 8142.1  | 7905.7  | 7617.7  |
| 22.5° | 8511.7  | 8518.1  | 8451.5  | 8322.6  | 8279.6  | 8333.3  | 8348.3  | 8333.3  | 8258.1  | 8036.8  | 7766.0  |
| 25°   | 8462.2  | 8457.9  | 8389.2  | 8258.1  | 8294.6  | 8408.5  | 8427.9  | 8434.3  | 8382.7  | 8189.3  | 7955.1  |
| 27.5° | 8700.8  | 8685.7  | 8554.6  | 8344.0  | 8367.7  | 8505.2  | 8531.0  | 8593.3  | 8561.1  | 8391.3  | 8170.0  |
| 30°   | 9390.5  | 9364.8  | 9096.1  | 8670.7  | 8554.6  | 8625.5  | 8657.8  | 8756.6  | 8763.1  | 8621.3  | 8455.8  |
| 32.5° | 10555.2 | 10523.0 | 10041.7 | 9281.0  | 8870.5  | 8748.0  | 8778.1  | 8926.4  | 9005.9  | 8896.3  | 8717.9  |
| 35°   | 12027.2 | 11990.7 | 11358.9 | 10318.9 | 9399.1  | 8982.3  | 9003.7  | 9121.9  | 9281.0  | 9126.2  | 8889.9  |
| 37.5° | 13561.5 | 13473.4 | 12865.3 | 11539.4 | 10239.3 | 9482.9  | 9482.9  | 9498.0  | 9573.2  | 9250.9  | 9091.9  |
| 40°   | 15087.2 | 14999.1 | 14449.0 | 12974.9 | 11326.7 | 10271.6 | 10222.2 | 9889.1  | 9828.9  | 9551.7  | 9498.0  |
| 42.5° | 16505.4 | 16479.7 | 16155.2 | 14597.2 | 12603.1 | 11047.3 | 10978.6 | 10413.4 | 10426.3 | 10254.4 | 10256.5 |
| 45°   | 18013.9 | 18013.9 | 17749.6 | 16234.7 | 14090.1 | 12293.7 | 12224.9 | 11393.3 | 11522.2 | 11442.7 | 11634.0 |
| 47.5° | 19245.2 | 19283.9 | 19247.4 | 17940.9 | 15820.0 | 13877.4 | 13752.7 | 12751.4 | 13112.4 | 13385.3 | 13941.8 |
| 50°   | 20502.3 | 20562.5 | 20568.9 | 19812.5 | 17910.8 | 15759.8 | 15618.0 | 14554.3 | 15360.1 | 16142.3 | 17236.1 |
| 52.5° | 22326.7 | 22462.1 | 21922.7 | 21679.9 | 20472.2 | 17994.6 | 17854.9 | 16872.9 | 18218.1 | 19316.2 | 21200.7 |
| 55°   | 24017.9 | 23899.7 | 23515.0 | 23665.5 | 23214.2 | 20538.9 | 20433.6 | 19571.9 | 21402.7 | 22829.6 | 25277.1 |
| 57.5° | 24933.3 | 24924.7 | 25311.5 | 25956.2 | 26171.0 | 23676.2 | 23588.1 | 22750.0 | 24993.5 | 26065.7 | 29104.2 |
| 60°   | 26007.7 | 26022.8 | 26981.2 | 28444.5 | 29329.9 | 27582.8 | 27544.2 | 26908.1 | 28481.1 | 29087.0 | 32106.2 |
| 62.5° | 26158.1 | 26428.9 | 28079.2 | 30597.7 | 32286.7 | 32147.0 | 32233.0 | 30653.6 | 31601.2 | 31498.1 | 34347.5 |
| 65°   | 24428.3 | 24785.0 | 27771.9 | 31248.8 | 35226.4 | 37138.8 | 37218.4 | 34420.5 | 34061.7 | 33558.8 | 35149.0 |
| 67.5° | 20882.7 | 21411.3 | 24656.1 | 29832.7 | 36195.5 | 40828.5 | 40940.2 | 37340.8 | 36103.1 | 34257.2 | 33219.3 |
| 70°   | 15196.8 | 15783.4 | 19049.7 | 25479.1 | 34467.8 | 42008.2 | 42135.0 | 38632.3 | 36180.5 | 32269.5 | 28358.6 |
| 72.5° | 9180.0  | 9639.8  | 12332.3 | 18757.5 | 29091.3 | 39859.3 | 40084.9 | 36994.9 | 33032.4 | 27333.6 | 20940.7 |
| 75°   | 4031.3  | 4332.1  | 5963.1  | 10808.8 | 20826.8 | 32978.6 | 33260.1 | 31665.7 | 26839.3 | 19864.1 | 12377.5 |
| 77.5° | 1716.9  | 1802.9  | 2445.4  | 4695.3  | 11773.6 | 22535.2 | 22922.0 | 23136.8 | 18209.5 | 10808.8 | 5230.3  |
| 80°   | 1070.1  | 1104.5  | 1383.9  | 2125.2  | 5509.7  | 12656.8 | 13073.7 | 13613.1 | 9042.4  | 3973.3  | 1826.5  |
| 82.5° | 651.1   | 689.8   | 919.7   | 1285.0  | 2868.7  | 5737.5  | 5937.3  | 6317.7  | 3509.1  | 1716.9  | 945.5   |
| 85°   | 391.1   | 419.0   | 563.0   | 812.3   | 1633.1  | 2256.3  | 2254.2  | 2492.7  | 1652.5  | 1104.5  | 498.5   |
| 87.5° | 187.0   | 208.4   | 300.8   | 421.2   | 823.0   | 846.7   | 792.9   | 898.2   | 1003.5  | 724.2   | 251.4   |
| 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°    | 6397.2  | 6397.2  | 6397.2 | 6397.2 | 6397.2 | 6397.2 | 6397.2 | 6397.2 | 6397.2 | 6397.2 | 6397.2 |
| 2.5°  | 6392.9  | 6384.3  | 6356.3 | 6334.9 | 6330.6 | 6317.7 | 6306.9 | 6313.4 | 6322.0 | 6324.1 | 6324.1 |
| 5°    | 6390.7  | 6367.1  | 6330.6 | 6315.5 | 6334.9 | 6360.6 | 6392.9 | 6435.9 | 6461.6 | 6481.0 | 6493.9 |
| 7.5°  | 6493.9  | 6448.7  | 6407.9 | 6399.3 | 6438.0 | 6506.8 | 6579.8 | 6670.1 | 6732.4 | 6775.4 | 6784.0 |
| 10°   | 6665.8  | 6609.9  | 6569.1 | 6577.7 | 6646.4 | 6745.3 | 6848.4 | 6964.5 | 7059.0 | 7117.0 | 7121.3 |
| 12.5° | 6863.5  | 6809.8  | 6771.1 | 6807.6 | 6921.5 | 7041.8 | 7149.3 | 7250.3 | 7336.2 | 7394.2 | 7394.2 |
| 15°   | 7091.3  | 7052.6  | 7007.5 | 7091.3 | 7246.0 | 7353.4 | 7398.5 | 7448.0 | 7495.2 | 7538.2 | 7529.6 |
| 17.5° | 7310.4  | 7273.9  | 7250.3 | 7349.1 | 7510.3 | 7559.7 | 7529.6 | 7493.1 | 7493.1 | 7516.7 | 7521.0 |
| 20°   | 7499.5  | 7467.3  | 7482.4 | 7579.1 | 7662.9 | 7611.3 | 7499.5 | 7383.5 | 7336.2 | 7349.1 | 7362.0 |
| 22.5° | 7665.0  | 7650.0  | 7695.1 | 7740.2 | 7680.0 | 7499.5 | 7293.3 | 7136.4 | 7078.4 | 7074.1 | 7078.4 |
| 25°   | 7858.4  | 7856.3  | 7912.1 | 7830.5 | 7564.0 | 7230.9 | 6953.7 | 6801.2 | 6768.9 | 6794.7 | 6837.7 |
| 27.5° | 8099.1  | 8122.7  | 8150.6 | 7852.0 | 7327.6 | 6824.8 | 6543.3 | 6438.0 | 6470.2 | 6532.6 | 6573.4 |
| 30°   | 8406.4  | 8470.8  | 8410.7 | 7798.2 | 6988.1 | 6360.6 | 6092.0 | 6062.0 | 6150.1 | 6238.2 | 6281.1 |
| 32.5° | 8705.1  | 8806.1  | 8659.9 | 7658.6 | 6549.7 | 5868.6 | 5660.1 | 5651.5 | 5759.0 | 5844.9 | 5905.1 |
| 35°   | 8945.7  | 9145.6  | 8846.9 | 7381.4 | 6042.6 | 5415.1 | 5262.6 | 5204.6 | 5243.2 | 5344.2 | 5413.0 |
| 37.5° | 9259.5  | 9592.5  | 8975.8 | 6958.0 | 5492.5 | 5041.2 | 4862.9 | 4729.7 | 4695.3 | 4736.1 | 4770.5 |
| 40°   | 9833.2  | 10273.7 | 9036.0 | 6367.1 | 4955.3 | 4667.3 | 4486.8 | 4291.3 | 4155.9 | 4057.1 | 4059.2 |
| 42.5° | 10770.1 | 11161.2 | 8997.3 | 5649.4 | 4458.9 | 4302.0 | 4097.9 | 3872.3 | 3653.1 | 3429.6 | 3412.4 |
| 45°   | 12291.5 | 12480.6 | 8881.3 | 4888.7 | 4022.7 | 3919.5 | 3728.3 | 3502.7 | 3210.4 | 2956.8 | 2933.2 |
| 47.5° | 14726.2 | 14307.1 | 8700.8 | 4224.7 | 3638.0 | 3595.1 | 3418.8 | 3158.8 | 2849.4 | 2645.3 | 2628.1 |
| 50°   | 18046.2 | 16943.8 | 8612.7 | 3696.0 | 3298.5 | 3311.4 | 3167.4 | 2892.4 | 2600.1 | 2449.7 | 2432.5 |
| 52.5° | 22017.3 | 20014.5 | 8782.4 | 3287.8 | 3025.6 | 3070.7 | 2963.3 | 2705.4 | 2460.5 | 2342.3 | 2325.1 |
| 55°   | 26136.7 | 23194.9 | 8965.1 | 2991.2 | 2767.7 | 2855.8 | 2819.3 | 2606.6 | 2385.2 | 2275.6 | 2260.6 |
| 57.5° | 29662.9 | 25569.4 | 8599.8 | 2750.5 | 2537.8 | 2675.3 | 2707.6 | 2544.3 | 2346.6 | 2247.7 | 2230.5 |
| 60°   | 31882.7 | 26525.6 | 7641.4 | 2524.9 | 2355.2 | 2531.4 | 2643.1 | 2527.1 | 2361.6 | 2353.0 | 2340.1 |
| 62.5° | 32935.7 | 26441.8 | 6203.8 | 2346.6 | 2241.3 | 2469.0 | 2690.4 | 2623.8 | 2533.5 | 2610.9 | 2617.3 |
| 65°   | 32462.9 | 25178.3 | 4620.1 | 2228.4 | 2159.6 | 2492.7 | 2832.2 | 2806.4 | 2582.9 | 2660.3 | 2671.0 |
| 67.5° | 29351.4 | 22163.4 | 3421.0 | 2125.2 | 2069.4 | 2559.3 | 3090.1 | 2866.6 | 2486.2 | 2542.1 | 2507.7 |
| 70°   | 23723.5 | 17571.3 | 2638.8 | 2009.2 | 1977.0 | 2550.7 | 3206.1 | 2830.1 | 2380.9 | 2393.8 | 2301.4 |
| 72.5° | 16359.3 | 11982.1 | 2146.7 | 1901.7 | 1843.7 | 2325.1 | 3124.5 | 2739.8 | 2292.8 | 2194.0 | 2071.5 |
| 75°   | 8896.3  | 6431.6  | 1824.4 | 1790.0 | 1609.5 | 2041.4 | 2974.0 | 2675.3 | 2213.3 | 2082.3 | 2013.5 |
| 77.5° | 3500.5  | 2668.9  | 1583.7 | 1637.4 | 1407.5 | 1802.9 | 2806.4 | 2552.9 | 2103.7 | 1931.8 | 1897.4 |
| 80°   | 1429.0  | 1362.4  | 1313.0 | 1416.1 | 1209.8 | 1577.3 | 2604.4 | 2408.9 | 1972.7 | 1792.2 | 1723.4 |
| 82.5° | 810.1   | 846.7   | 1020.7 | 1117.4 | 982.0  | 1452.6 | 2507.7 | 2292.8 | 1815.8 | 1605.2 | 1523.5 |
| 85°   | 414.7   | 496.4   | 711.3  | 801.5  | 722.0  | 1235.6 | 2310.0 | 2007.0 | 1456.9 | 1229.2 | 1235.6 |
| 87.5° | 199.8   | 277.2   | 449.1  | 502.8  | 468.5  | 893.9  | 1725.5 | 1454.8 | 1134.6 | 898.2  | 870.3  |
| 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)