

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: P522733

Luminaire Tested: **GLAN-SA4B-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20984 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

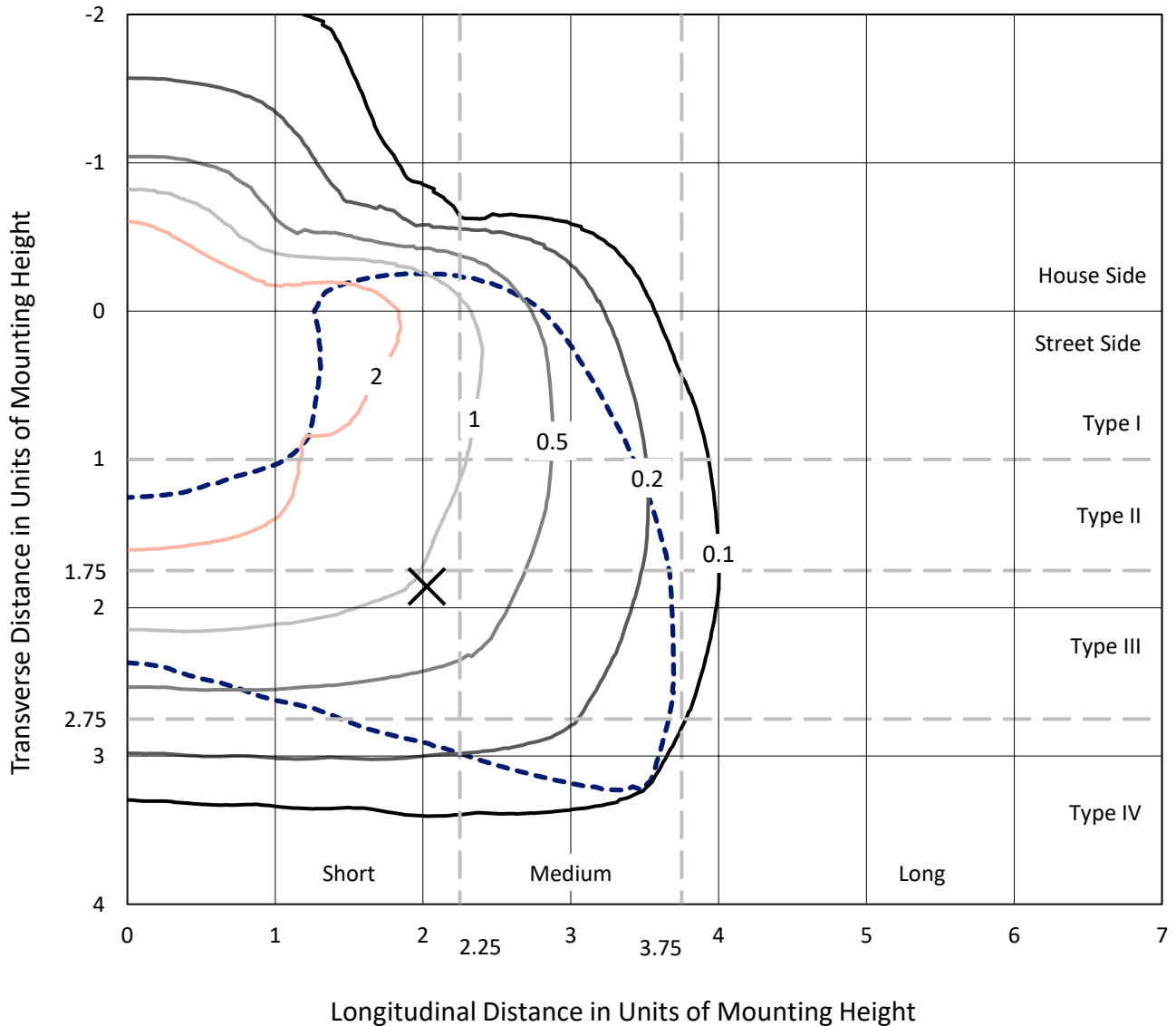
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

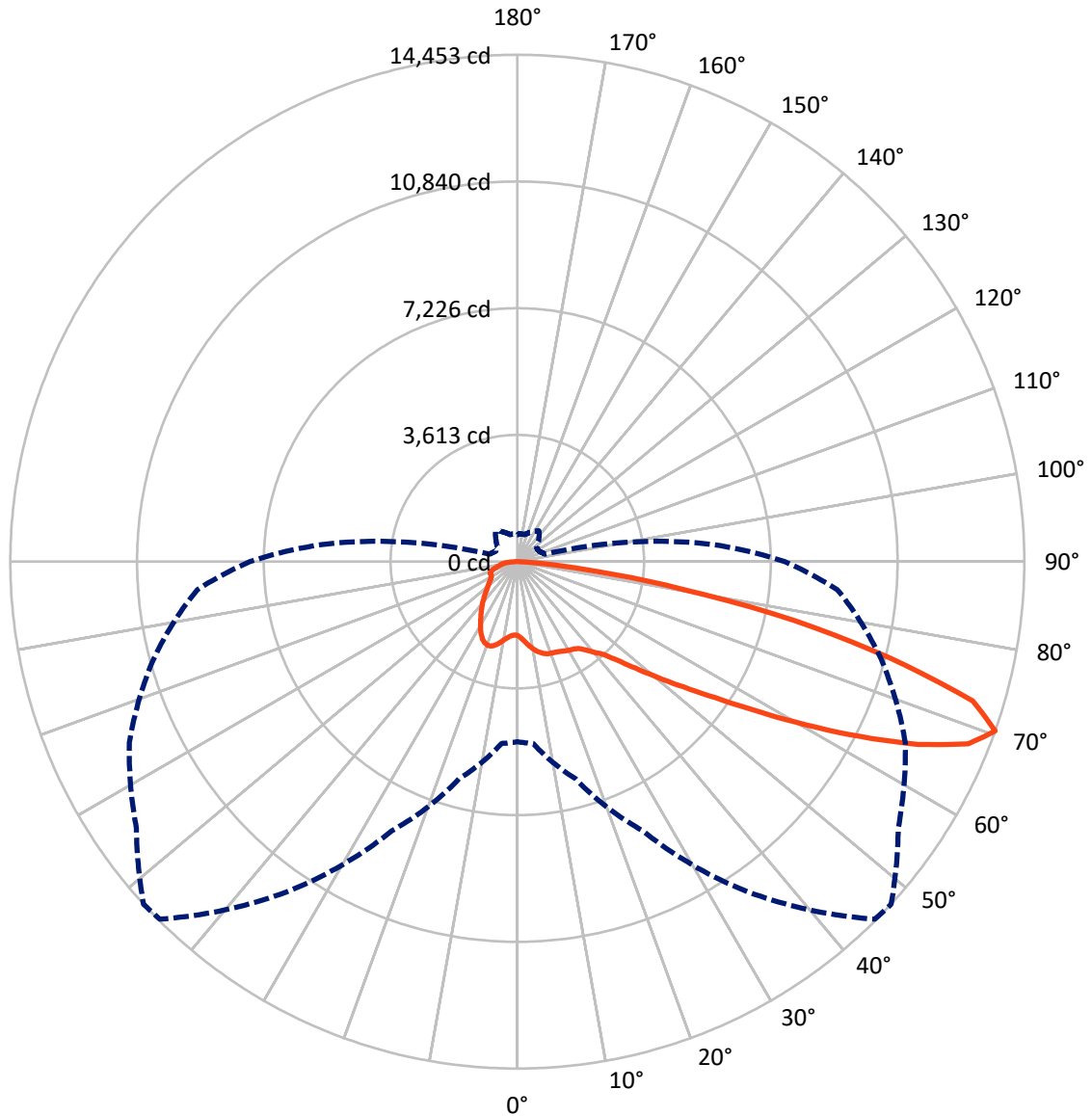
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4751.2   | 0.0    | 4751.2  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 16232.8  | 0.0    | 16232.8 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 20984.0  | 0.0    | 20984.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 217.1   | 1.0       |
| 10°-20°   | 725.9   | 3.5       |
| 20°-30°   | 1207.2  | 5.8       |
| 30°-40°   | 1711.0  | 8.2       |
| 40°-50°   | 2525.8  | 12.0      |
| 50°-60°   | 4374.8  | 20.8      |
| 60°-70°   | 6179.6  | 29.4      |
| 70°-80°   | 3552.4  | 16.9      |
| 80°-90°   | 490.1   | 2.3       |
| 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°    | 20984.0 | 100.0     |
| 0°-180°   | 20984.0 | 100.0     |

**Coefficient of Utilization**



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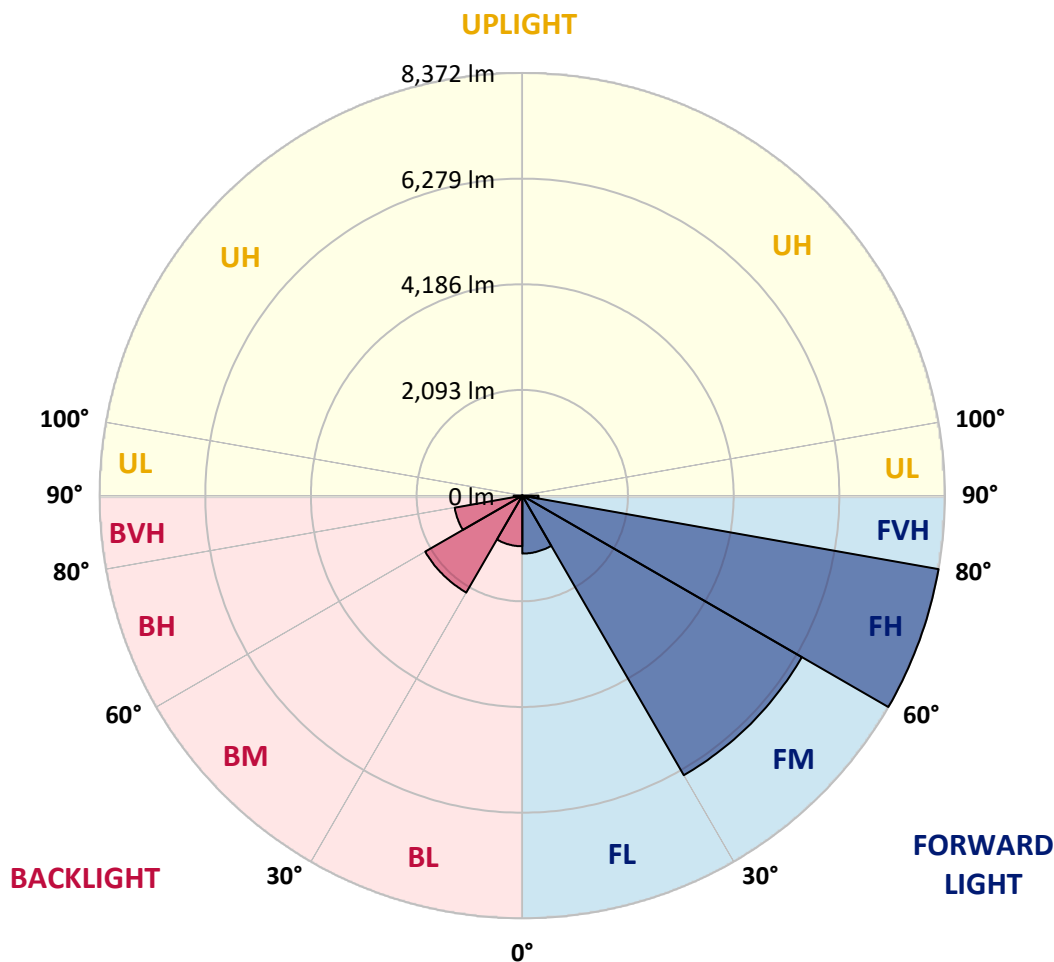
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1147.5 | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 6393.4 | 30.5      |                         |      |          |
| FH   | (60°-80°)   | 8371.7 | 39.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 320.2  | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1002.8 | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2218.2 | 10.6      | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1360.2 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 170.0  | 0.8       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2106.5 | 2106.5 | 2106.5 | 2106.5  | 2106.5  | 2106.5  | 2106.5  | 2106.5  | 2106.5  | 2106.5  | 2106.5  |
| 2.5°  | 2242.4 | 2234.6 | 2233.4 | 2216.6  | 2207.6  | 2190.8  | 2184.0  | 2168.3  | 2149.2  | 2130.1  | 2112.2  |
| 5°    | 2418.7 | 2418.7 | 2410.8 | 2387.3  | 2350.2  | 2312.0  | 2295.2  | 2264.9  | 2211.0  | 2167.2  | 2130.1  |
| 7.5°  | 2599.5 | 2601.7 | 2586.0 | 2551.2  | 2498.4  | 2436.7  | 2421.0  | 2376.0  | 2299.7  | 2235.7  | 2180.7  |
| 10°   | 2755.6 | 2755.6 | 2734.2 | 2687.1  | 2620.8  | 2553.5  | 2537.7  | 2487.2  | 2401.9  | 2322.1  | 2250.3  |
| 12.5° | 2874.6 | 2874.6 | 2846.5 | 2784.8  | 2712.9  | 2652.3  | 2634.3  | 2586.0  | 2506.3  | 2417.6  | 2326.6  |
| 15°   | 2952.1 | 2946.5 | 2915.0 | 2845.4  | 2775.8  | 2723.0  | 2710.7  | 2670.2  | 2597.2  | 2507.4  | 2405.2  |
| 17.5° | 2955.4 | 2953.2 | 2922.9 | 2864.5  | 2803.9  | 2767.9  | 2760.1  | 2733.1  | 2675.8  | 2590.5  | 2482.7  |
| 20°   | 2890.3 | 2894.8 | 2874.6 | 2833.1  | 2803.9  | 2788.1  | 2784.8  | 2775.8  | 2735.4  | 2655.6  | 2547.8  |
| 22.5° | 2820.7 | 2828.6 | 2809.5 | 2787.0  | 2784.8  | 2800.5  | 2802.7  | 2805.0  | 2779.2  | 2701.7  | 2602.9  |
| 25°   | 2803.9 | 2809.5 | 2790.4 | 2770.2  | 2782.5  | 2824.1  | 2833.1  | 2842.0  | 2821.8  | 2756.7  | 2668.0  |
| 27.5° | 2889.2 | 2884.7 | 2847.6 | 2803.9  | 2811.7  | 2867.9  | 2880.2  | 2890.3  | 2880.2  | 2824.1  | 2748.8  |
| 30°   | 3130.6 | 3116.0 | 3041.9 | 2913.9  | 2873.5  | 2912.8  | 2925.1  | 2953.2  | 2953.2  | 2911.7  | 2836.4  |
| 32.5° | 3534.9 | 3506.8 | 3370.9 | 3119.4  | 2979.0  | 2955.4  | 2967.8  | 3013.8  | 3037.4  | 3004.9  | 2922.9  |
| 35°   | 4025.6 | 3996.4 | 3802.1 | 3464.1  | 3172.2  | 3040.8  | 3037.4  | 3089.1  | 3152.0  | 3079.0  | 2972.3  |
| 37.5° | 4518.5 | 4488.2 | 4254.6 | 3875.1  | 3454.0  | 3220.4  | 3200.2  | 3218.2  | 3245.2  | 3111.5  | 3040.8  |
| 40°   | 5011.5 | 4975.5 | 4771.2 | 4334.4  | 3798.7  | 3458.5  | 3405.7  | 3324.9  | 3313.6  | 3218.2  | 3173.3  |
| 42.5° | 5499.9 | 5467.4 | 5364.0 | 4849.8  | 4212.0  | 3690.9  | 3610.1  | 3470.9  | 3513.5  | 3456.3  | 3417.0  |
| 45°   | 5992.9 | 5995.1 | 5885.1 | 5428.0  | 4710.5  | 4119.9  | 4011.0  | 3793.1  | 3894.2  | 3872.8  | 3895.3  |
| 47.5° | 6429.7 | 6424.1 | 6384.8 | 5989.5  | 5329.2  | 4672.3  | 4532.0  | 4279.3  | 4452.3  | 4530.9  | 4702.7  |
| 50°   | 6853.0 | 6849.6 | 6851.9 | 6626.2  | 6047.9  | 5329.2  | 5174.3  | 4909.3  | 5298.9  | 5571.8  | 5879.5  |
| 52.5° | 7459.4 | 7478.4 | 7342.6 | 7283.1  | 6921.5  | 6105.2  | 5934.5  | 5660.5  | 6299.4  | 6729.5  | 7330.2  |
| 55°   | 8068.0 | 8052.2 | 7945.6 | 8007.3  | 7835.5  | 7023.7  | 6845.1  | 6627.3  | 7413.3  | 7883.8  | 8786.6  |
| 57.5° | 8426.2 | 8431.8 | 8540.7 | 8842.8  | 8964.0  | 8169.0  | 8007.3  | 7838.9  | 8665.3  | 8998.8  | 10082.4 |
| 60°   | 8748.4 | 8774.3 | 9087.5 | 9658.0  | 9987.0  | 9576.0  | 9432.3  | 9268.3  | 9814.1  | 9946.6  | 11207.6 |
| 62.5° | 8849.5 | 8929.2 | 9476.1 | 10329.5 | 10984.1 | 11163.8 | 10985.2 | 10623.7 | 10907.8 | 10856.1 | 11970.0 |
| 65°   | 8345.3 | 8454.2 | 9434.5 | 10581.0 | 11874.6 | 12670.7 | 12557.3 | 11885.8 | 11839.7 | 11528.7 | 12094.6 |
| 67.5° | 7018.1 | 7127.0 | 8385.7 | 10053.2 | 12242.9 | 13975.5 | 13862.1 | 12806.6 | 12405.7 | 11591.6 | 11151.4 |
| 70°   | 5135.0 | 5203.5 | 6407.2 | 8464.3  | 11502.9 | 14413.4 | 14452.7 | 13255.7 | 12203.6 | 10737.1 | 9156.0  |
| 72.5° | 2958.8 | 3110.4 | 3953.7 | 5954.7  | 9397.5  | 13306.2 | 13579.1 | 12321.5 | 10925.7 | 8957.3  | 6401.6  |
| 75°   | 1272.2 | 1275.6 | 1828.1 | 3284.5  | 6364.5  | 10695.5 | 10959.4 | 10213.8 | 8580.0  | 6193.9  | 3418.1  |
| 77.5° | 605.2  | 616.5  | 804.0  | 1466.5  | 3503.4  | 7389.7  | 8101.6  | 7215.7  | 5487.6  | 2975.7  | 1291.3  |
| 80°   | 393.0  | 400.9  | 491.8  | 727.6   | 1718.0  | 4284.9  | 4781.3  | 4162.6  | 2421.0  | 1063.4  | 557.0   |
| 82.5° | 238.1  | 240.3  | 329.0  | 444.7   | 945.5   | 1940.4  | 2287.3  | 1806.7  | 1033.1  | 636.7   | 327.9   |
| 85°   | 144.9  | 146.0  | 199.9  | 275.1   | 573.8   | 670.4   | 688.3   | 682.7   | 606.4   | 416.6   | 175.2   |
| 87.5° | 69.6   | 71.9   | 103.3  | 130.3   | 225.7   | 207.7   | 196.5   | 227.9   | 286.3   | 224.6   | 75.2    |
| 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°    | 2106.5  | 2106.5 | 2106.5 | 2106.5 | 2106.5 | 2106.5 | 2106.5 | 2106.5 | 2106.5 | 2106.5 | 2106.5 |
| 2.5°  | 2104.3  | 2100.9 | 2093.1 | 2089.7 | 2087.5 | 2088.6 | 2087.5 | 2087.5 | 2088.6 | 2088.6 | 2088.6 |
| 5°    | 2114.4  | 2108.8 | 2096.4 | 2096.4 | 2103.2 | 2118.9 | 2133.5 | 2144.7 | 2157.1 | 2155.9 | 2155.9 |
| 7.5°  | 2158.2  | 2148.1 | 2133.5 | 2138.0 | 2154.8 | 2179.5 | 2205.4 | 2230.1 | 2254.8 | 2257.0 | 2255.9 |
| 10°   | 2222.2  | 2212.1 | 2196.4 | 2202.0 | 2228.9 | 2266.0 | 2298.6 | 2334.5 | 2361.4 | 2369.3 | 2367.1 |
| 12.5° | 2295.2  | 2275.0 | 2261.5 | 2277.2 | 2319.9 | 2369.3 | 2400.7 | 2427.7 | 2446.8 | 2458.0 | 2453.5 |
| 15°   | 2369.3  | 2350.2 | 2334.5 | 2367.1 | 2418.7 | 2464.7 | 2480.5 | 2485.0 | 2488.3 | 2499.6 | 2497.3 |
| 17.5° | 2441.2  | 2415.3 | 2409.7 | 2452.4 | 2501.8 | 2522.0 | 2513.0 | 2493.9 | 2479.3 | 2488.3 | 2487.2 |
| 20°   | 2505.2  | 2485.0 | 2482.7 | 2525.4 | 2544.5 | 2525.4 | 2487.2 | 2453.5 | 2427.7 | 2429.9 | 2428.8 |
| 22.5° | 2565.8  | 2550.1 | 2552.3 | 2570.3 | 2540.0 | 2474.8 | 2412.0 | 2365.9 | 2337.9 | 2343.5 | 2346.8 |
| 25°   | 2633.2  | 2617.5 | 2623.1 | 2593.9 | 2493.9 | 2380.5 | 2289.6 | 2250.3 | 2239.0 | 2250.3 | 2258.1 |
| 27.5° | 2720.8  | 2710.7 | 2707.3 | 2595.0 | 2412.0 | 2241.3 | 2138.0 | 2123.4 | 2133.5 | 2158.2 | 2170.5 |
| 30°   | 2815.1  | 2815.1 | 2797.1 | 2575.9 | 2299.7 | 2074.0 | 1984.1 | 1986.4 | 2021.2 | 2056.0 | 2068.4 |
| 32.5° | 2906.0  | 2925.1 | 2869.0 | 2524.3 | 2154.8 | 1911.2 | 1842.7 | 1844.9 | 1875.2 | 1917.9 | 1929.1 |
| 35°   | 2981.3  | 3036.3 | 2930.7 | 2429.9 | 1984.1 | 1774.2 | 1722.5 | 1692.2 | 1693.3 | 1725.9 | 1734.9 |
| 37.5° | 3084.6  | 3186.8 | 2966.7 | 2289.6 | 1802.2 | 1657.4 | 1599.0 | 1546.2 | 1511.4 | 1497.9 | 1497.9 |
| 40°   | 3264.2  | 3414.7 | 2975.7 | 2081.8 | 1630.4 | 1546.2 | 1463.1 | 1400.2 | 1332.9 | 1272.2 | 1261.0 |
| 42.5° | 3568.5  | 3758.3 | 2957.7 | 1842.7 | 1475.5 | 1423.8 | 1343.0 | 1265.5 | 1172.3 | 1087.0 | 1080.2 |
| 45°   | 4107.5  | 4205.2 | 2909.4 | 1594.5 | 1337.4 | 1305.9 | 1227.3 | 1143.1 | 1044.3 | 967.9  | 962.3  |
| 47.5° | 4971.0  | 4832.9 | 2845.4 | 1374.4 | 1211.6 | 1202.6 | 1142.0 | 1044.3 | 945.5  | 892.7  | 887.1  |
| 50°   | 6232.0  | 5821.1 | 2836.4 | 1215.0 | 1110.5 | 1115.0 | 1065.6 | 975.8  | 889.3  | 845.5  | 838.8  |
| 52.5° | 7750.2  | 7014.7 | 2895.9 | 1102.7 | 1021.8 | 1038.7 | 1014.0 | 930.9  | 854.5  | 817.5  | 810.7  |
| 55°   | 9223.4  | 8088.2 | 2931.9 | 1015.1 | 938.7  | 970.2  | 973.5  | 903.9  | 834.3  | 797.3  | 792.8  |
| 57.5° | 10419.3 | 8896.7 | 2772.4 | 935.4  | 866.9  | 915.2  | 939.9  | 888.2  | 824.2  | 796.1  | 791.6  |
| 60°   | 11251.4 | 9278.4 | 2318.8 | 864.6  | 814.1  | 871.4  | 927.5  | 889.3  | 848.9  | 852.3  | 854.5  |
| 62.5° | 11516.4 | 9108.9 | 1739.4 | 811.8  | 778.2  | 856.8  | 947.7  | 935.4  | 893.8  | 919.6  | 924.1  |
| 65°   | 11077.3 | 8408.2 | 1261.0 | 770.3  | 746.7  | 866.9  | 1008.4 | 969.1  | 878.1  | 897.2  | 897.2  |
| 67.5° | 9607.4  | 7243.8 | 981.4  | 732.1  | 710.8  | 886.0  | 1069.0 | 965.7  | 841.0  | 863.5  | 843.3  |
| 70°   | 7621.1  | 5603.2 | 817.5  | 689.5  | 672.6  | 857.9  | 1074.6 | 930.9  | 797.3  | 801.7  | 763.6  |
| 72.5° | 5057.5  | 3684.2 | 702.9  | 649.0  | 614.2  | 771.4  | 1028.6 | 886.0  | 754.6  | 728.8  | 690.6  |
| 75°   | 2478.2  | 1837.0 | 613.1  | 598.5  | 537.9  | 671.5  | 965.7  | 843.3  | 708.5  | 668.1  | 646.8  |
| 77.5° | 960.1   | 781.5  | 523.3  | 534.5  | 468.2  | 591.8  | 882.6  | 782.7  | 647.9  | 592.9  | 576.0  |
| 80°   | 466.0   | 443.5  | 428.9  | 445.8  | 385.2  | 504.2  | 806.2  | 729.9  | 591.8  | 531.1  | 506.4  |
| 82.5° | 289.7   | 274.0  | 329.0  | 347.0  | 296.4  | 460.4  | 764.7  | 685.0  | 521.0  | 440.2  | 420.0  |
| 85°   | 147.1   | 157.2  | 220.1  | 236.9  | 212.2  | 366.1  | 629.9  | 514.3  | 376.2  | 312.2  | 314.4  |
| 87.5° | 56.1    | 75.2   | 115.7  | 124.6  | 113.4  | 193.1  | 347.0  | 299.8  | 241.4  | 163.9  | 151.6  |
| 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)