

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: P319047

Luminaire Tested: **GAN-SA3C-740-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319047  
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-SA3C-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 21442 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

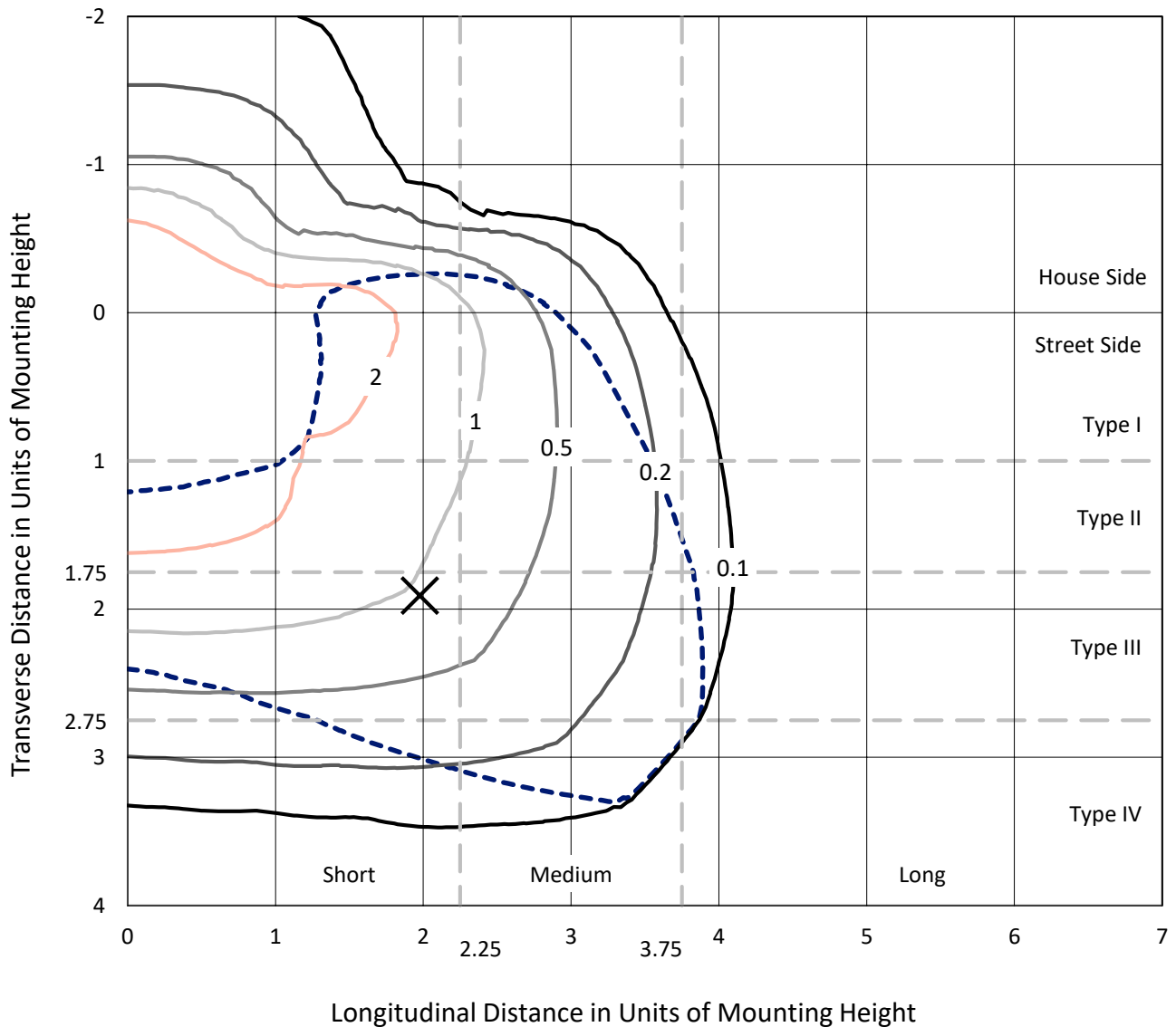
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

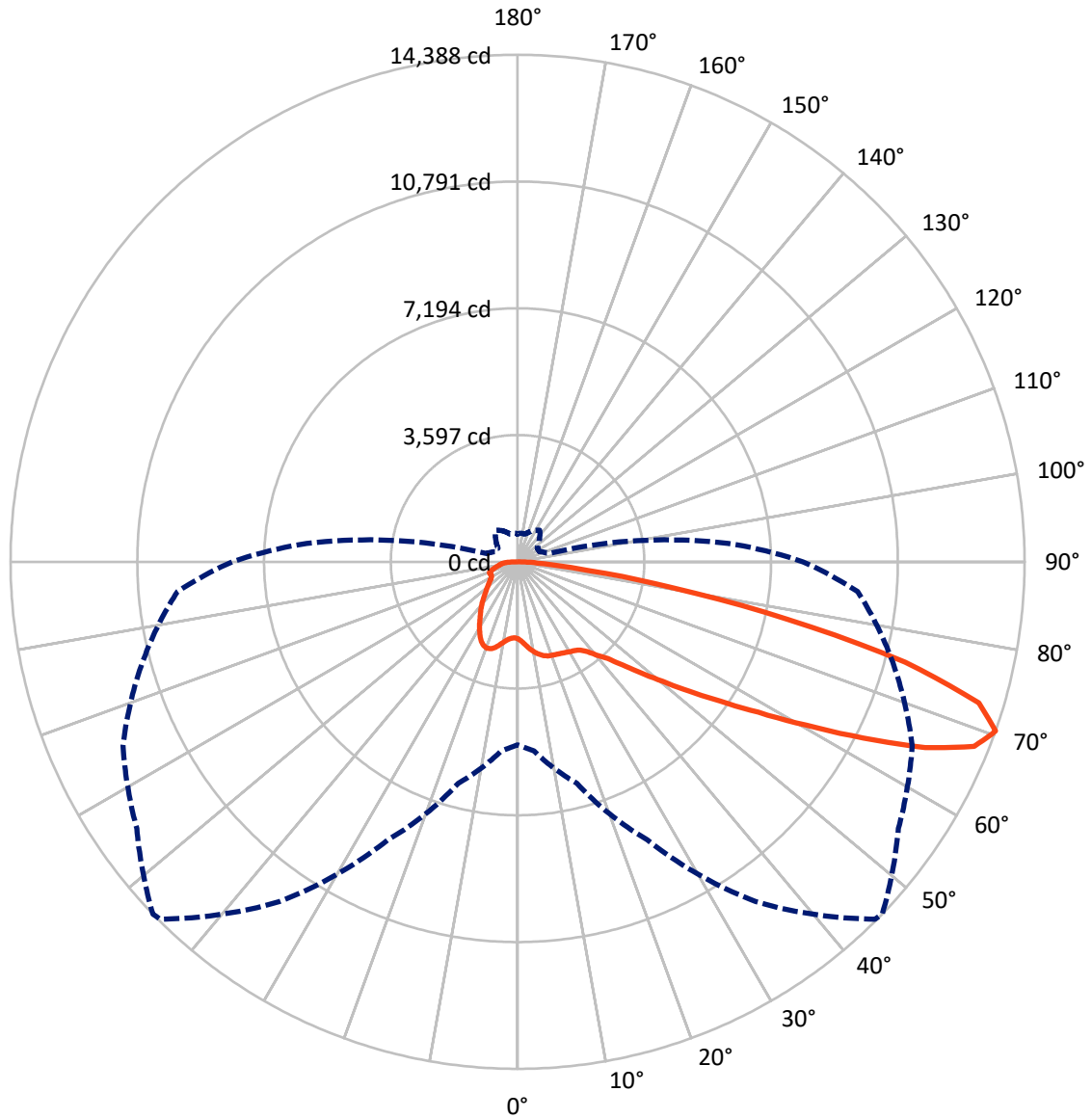
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4914.4   | 0.0    | 4914.4  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 16527.6  | 0.0    | 16527.6 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 21442.0  | 0.0    | 21442.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 222.7   | 1.0       |
| 10°-20°   | 742.0   | 3.5       |
| 20°-30°   | 1237.1  | 5.8       |
| 30°-40°   | 1755.6  | 8.2       |
| 40°-50°   | 2582.3  | 12.0      |
| 50°-60°   | 4373.2  | 20.4      |
| 60°-70°   | 6207.6  | 29.0      |
| 70°-80°   | 3771.2  | 17.6      |
| 80°-90°   | 550.4   | 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°    | 21442.0 | 100.0     |
| 0°-180°   | 21442.0 | 100.0     |

**Coefficient of Utilization**

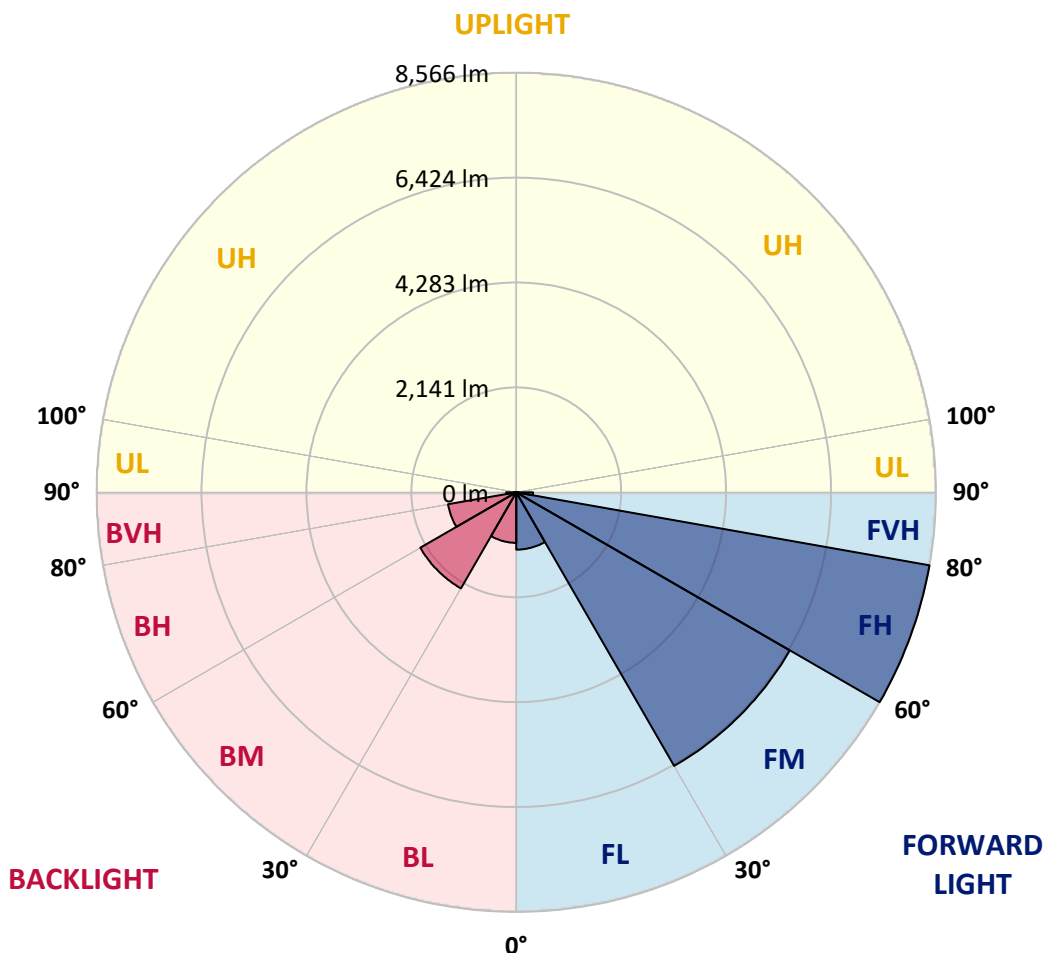


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1170.0 | 5.5       |                         |      |          |
| FM (30°-60°)   | 6448.8 | 30.1      |                         |      |          |
| FH (60°-80°)   | 8566.0 | 39.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 342.8  | 1.6       |                         |      | G3/500   |
| BL (0°-30°)    | 1031.8 | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2262.2 | 10.6      | B2/2500                 |      |          |
| BH (60°-80°)   | 1412.9 | 6.6       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 207.5  | 1.0       |                         |      | 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°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2184.5 | 2184.5 | 2184.5 | 2184.5  | 2184.5  | 2184.5  | 2184.5  | 2184.5  | 2184.5  | 2184.5  | 2184.5  |
| 2.5°  | 2293.9 | 2295.3 | 2298.3 | 2290.9  | 2270.4  | 2264.5  | 2262.3  | 2241.0  | 2227.1  | 2206.5  | 2188.9  |
| 5°    | 2477.3 | 2478.8 | 2474.4 | 2453.8  | 2408.3  | 2374.6  | 2371.6  | 2323.2  | 2279.2  | 2232.2  | 2197.0  |
| 7.5°  | 2668.8 | 2671.0 | 2657.1 | 2618.2  | 2554.4  | 2495.7  | 2492.0  | 2425.9  | 2359.2  | 2288.0  | 2235.2  |
| 10°   | 2838.3 | 2829.5 | 2806.8 | 2752.5  | 2676.9  | 2605.0  | 2602.1  | 2533.1  | 2456.0  | 2370.2  | 2299.7  |
| 12.5° | 2951.3 | 2944.0 | 2914.7 | 2848.6  | 2765.7  | 2699.6  | 2693.8  | 2629.9  | 2555.1  | 2461.2  | 2376.8  |
| 15°   | 3013.7 | 3018.8 | 2979.2 | 2904.4  | 2823.7  | 2767.9  | 2762.8  | 2717.3  | 2650.5  | 2555.8  | 2459.0  |
| 17.5° | 3021.8 | 3026.2 | 2988.0 | 2913.9  | 2847.9  | 2809.7  | 2807.5  | 2777.4  | 2729.0  | 2638.0  | 2536.7  |
| 20°   | 2974.8 | 2977.8 | 2946.2 | 2885.3  | 2842.0  | 2830.3  | 2829.5  | 2816.3  | 2780.4  | 2699.6  | 2601.3  |
| 22.5° | 2906.6 | 2908.8 | 2886.0 | 2842.0  | 2827.3  | 2845.7  | 2850.8  | 2845.7  | 2820.0  | 2744.4  | 2652.0  |
| 25°   | 2889.7 | 2888.2 | 2864.8 | 2820.0  | 2832.5  | 2871.4  | 2878.0  | 2880.2  | 2862.6  | 2796.5  | 2716.5  |
| 27.5° | 2971.2 | 2966.0 | 2921.3 | 2849.3  | 2857.4  | 2904.4  | 2913.2  | 2934.5  | 2923.5  | 2865.5  | 2789.9  |
| 30°   | 3206.7 | 3197.9 | 3106.2 | 2960.9  | 2921.3  | 2945.5  | 2956.5  | 2990.2  | 2992.4  | 2944.0  | 2887.5  |
| 32.5° | 3604.4 | 3593.4 | 3429.0 | 3169.3  | 3029.1  | 2987.3  | 2997.6  | 3048.2  | 3075.4  | 3037.9  | 2977.0  |
| 35°   | 4107.1 | 4094.6 | 3878.9 | 3523.7  | 3209.6  | 3067.3  | 3074.6  | 3115.0  | 3169.3  | 3116.4  | 3035.7  |
| 37.5° | 4631.0 | 4600.9 | 4393.3 | 3940.5  | 3496.6  | 3238.3  | 3238.3  | 3243.4  | 3269.1  | 3159.0  | 3104.7  |
| 40°   | 5152.0 | 5121.9 | 4934.1 | 4430.7  | 3867.9  | 3507.6  | 3490.7  | 3376.9  | 3356.4  | 3261.7  | 3243.4  |
| 42.5° | 5636.3 | 5627.5 | 5516.7 | 4984.7  | 4303.7  | 3772.5  | 3749.0  | 3556.0  | 3560.4  | 3501.7  | 3502.4  |
| 45°   | 6151.4 | 6151.4 | 6061.2 | 5543.9  | 4811.5  | 4198.1  | 4174.6  | 3890.6  | 3934.6  | 3907.5  | 3972.8  |
| 47.5° | 6571.9 | 6585.1 | 6572.6 | 6126.5  | 5402.2  | 4738.9  | 4696.3  | 4354.4  | 4477.6  | 4570.8  | 4760.9  |
| 50°   | 7001.2 | 7021.7 | 7023.9 | 6765.6  | 6116.2  | 5381.7  | 5333.3  | 4970.0  | 5245.2  | 5512.3  | 5885.8  |
| 52.5° | 7624.2 | 7670.4 | 7486.2 | 7403.3  | 6990.9  | 6144.8  | 6097.1  | 5761.8  | 6221.1  | 6596.1  | 7239.7  |
| 55°   | 8201.7 | 8161.3 | 8030.0 | 8081.3  | 7927.2  | 7013.7  | 6977.7  | 6683.4  | 7308.6  | 7795.9  | 8631.7  |
| 57.5° | 8514.3 | 8511.3 | 8643.4 | 8863.6  | 8936.9  | 8085.0  | 8054.9  | 7768.7  | 8534.8  | 8901.0  | 9938.6  |
| 60°   | 8881.2 | 8886.3 | 9213.6 | 9713.3  | 10015.6 | 9419.0  | 9405.8  | 9188.6  | 9725.8  | 9932.7  | 10963.7 |
| 62.5° | 8932.5 | 9025.0 | 9588.6 | 10448.6 | 11025.3 | 10977.6 | 11007.0 | 10467.6 | 10791.3 | 10756.0 | 11729.0 |
| 65°   | 8341.8 | 8463.6 | 9483.6 | 10670.9 | 12029.2 | 12682.3 | 12709.4 | 11754.0 | 11631.5 | 11459.7 | 12002.8 |
| 67.5° | 7131.1 | 7311.6 | 8419.6 | 10187.3 | 12360.1 | 13942.2 | 13980.3 | 12751.2 | 12328.6 | 11698.2 | 11343.8 |
| 70°   | 5189.4 | 5389.8 | 6505.1 | 8700.7  | 11770.1 | 14345.0 | 14388.3 | 13192.2 | 12355.0 | 11019.5 | 9683.9  |
| 72.5° | 3134.8 | 3291.8 | 4211.3 | 6405.3  | 9934.2  | 13611.2 | 13688.3 | 12633.1 | 11280.0 | 9333.9  | 7150.9  |
| 75°   | 1376.6 | 1479.3 | 2036.3 | 3691.0  | 7112.0  | 11261.6 | 11357.7 | 10813.3 | 9165.2  | 6783.2  | 4226.7  |
| 77.5° | 586.3  | 615.7  | 835.1  | 1603.4  | 4020.5  | 7695.4  | 7827.4  | 7900.8  | 6218.2  | 3691.0  | 1786.1  |
| 80°   | 365.4  | 377.2  | 472.6  | 725.7   | 1881.5  | 4322.1  | 4464.4  | 4648.6  | 3087.8  | 1356.8  | 623.7   |
| 82.5° | 222.3  | 235.5  | 314.1  | 438.8   | 979.6   | 1959.2  | 2027.5  | 2157.4  | 1198.3  | 586.3   | 322.9   |
| 85°   | 133.6  | 143.1  | 192.3  | 277.4   | 557.7   | 770.5   | 769.8   | 851.2   | 564.3   | 377.2   | 170.2   |
| 87.5° | 63.8   | 71.2   | 102.7  | 143.8   | 281.0   | 289.1   | 270.8   | 306.7   | 342.7   | 247.3   | 85.9    |
| 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°    | 2184.5  | 2184.5 | 2184.5 | 2184.5 | 2184.5 | 2184.5 | 2184.5 | 2184.5 | 2184.5 | 2184.5 | 2184.5 |
| 2.5°  | 2183.1  | 2180.1 | 2170.6 | 2163.2 | 2161.8 | 2157.4 | 2153.7 | 2155.9 | 2158.8 | 2159.6 | 2159.6 |
| 5°    | 2182.3  | 2174.2 | 2161.8 | 2156.6 | 2163.2 | 2172.0 | 2183.1 | 2197.7 | 2206.5 | 2213.1 | 2217.5 |
| 7.5°  | 2217.5  | 2202.1 | 2188.2 | 2185.3 | 2198.5 | 2221.9 | 2246.9 | 2277.7 | 2299.0 | 2313.7 | 2316.6 |
| 10°   | 2276.2  | 2257.2 | 2243.2 | 2246.2 | 2269.6 | 2303.4 | 2338.6 | 2378.2 | 2410.5 | 2430.3 | 2431.8 |
| 12.5° | 2343.8  | 2325.4 | 2312.2 | 2324.7 | 2363.6 | 2404.7 | 2441.3 | 2475.8 | 2505.2 | 2525.0 | 2525.0 |
| 15°   | 2421.5  | 2408.3 | 2392.9 | 2421.5 | 2474.4 | 2511.1 | 2526.5 | 2543.3 | 2559.5 | 2574.2 | 2571.2 |
| 17.5° | 2496.4  | 2483.9 | 2475.8 | 2509.6 | 2564.6 | 2581.5 | 2571.2 | 2558.8 | 2558.8 | 2566.8 | 2568.3 |
| 20°   | 2561.0  | 2550.0 | 2555.1 | 2588.1 | 2616.7 | 2599.1 | 2561.0 | 2521.3 | 2505.2 | 2509.6 | 2514.0 |
| 22.5° | 2617.5  | 2612.3 | 2627.7 | 2643.1 | 2622.6 | 2561.0 | 2490.5 | 2436.9 | 2417.1 | 2415.7 | 2417.1 |
| 25°   | 2683.5  | 2682.8 | 2701.8 | 2674.0 | 2583.0 | 2469.2 | 2374.6 | 2322.5 | 2311.5 | 2320.3 | 2334.9 |
| 27.5° | 2765.7  | 2773.8 | 2783.3 | 2681.3 | 2502.3 | 2330.5 | 2234.4 | 2198.5 | 2209.5 | 2230.7 | 2244.7 |
| 30°   | 2870.6  | 2892.6 | 2872.1 | 2663.0 | 2386.3 | 2172.0 | 2080.3 | 2070.0 | 2100.1 | 2130.2 | 2144.9 |
| 32.5° | 2972.6  | 3007.1 | 2957.2 | 2615.3 | 2236.6 | 2004.0 | 1932.8 | 1929.9 | 1966.6 | 1995.9 | 2016.5 |
| 35°   | 3054.8  | 3123.0 | 3021.1 | 2520.6 | 2063.4 | 1849.2 | 1797.1 | 1777.3 | 1790.5 | 1825.0 | 1848.4 |
| 37.5° | 3161.9  | 3275.7 | 3065.1 | 2376.0 | 1875.6 | 1721.5 | 1660.6 | 1615.1 | 1603.4 | 1617.3 | 1629.0 |
| 40°   | 3357.9  | 3508.3 | 3085.6 | 2174.2 | 1692.1 | 1593.8 | 1532.2 | 1465.4 | 1419.2 | 1385.4 | 1386.1 |
| 42.5° | 3677.8  | 3811.4 | 3072.4 | 1929.2 | 1522.6 | 1469.1 | 1399.4 | 1322.3 | 1247.5 | 1171.1 | 1165.3 |
| 45°   | 4197.3  | 4261.9 | 3032.8 | 1669.4 | 1373.7 | 1338.4 | 1273.1 | 1196.1 | 1096.3 | 1009.7 | 1001.6 |
| 47.5° | 5028.7  | 4885.6 | 2971.2 | 1442.6 | 1242.3 | 1227.6 | 1167.5 | 1078.7 | 973.0  | 903.3  | 897.4  |
| 50°   | 6162.4  | 5786.0 | 2941.1 | 1262.1 | 1126.4 | 1130.8 | 1081.6 | 987.7  | 887.9  | 836.5  | 830.7  |
| 52.5° | 7518.5  | 6834.6 | 2999.0 | 1122.7 | 1033.2 | 1048.6 | 1011.9 | 923.9  | 840.2  | 799.8  | 794.0  |
| 55°   | 8925.2  | 7920.6 | 3061.4 | 1021.4 | 945.1  | 975.2  | 962.7  | 890.1  | 814.5  | 777.1  | 772.0  |
| 57.5° | 10129.4 | 8731.5 | 2936.7 | 939.3  | 866.6  | 913.6  | 924.6  | 868.8  | 801.3  | 767.6  | 761.7  |
| 60°   | 10887.4 | 9058.0 | 2609.4 | 862.2  | 804.2  | 864.4  | 902.6  | 862.9  | 806.4  | 803.5  | 799.1  |
| 62.5° | 11246.9 | 9029.4 | 2118.5 | 801.3  | 765.4  | 843.1  | 918.7  | 896.0  | 865.1  | 891.6  | 893.8  |
| 65°   | 11085.5 | 8597.9 | 1577.7 | 760.9  | 737.5  | 851.2  | 967.1  | 958.3  | 882.0  | 908.4  | 912.1  |
| 67.5° | 10023.0 | 7568.4 | 1168.2 | 725.7  | 706.6  | 874.0  | 1055.2 | 978.9  | 849.0  | 868.1  | 856.3  |
| 70°   | 8101.1  | 6000.3 | 901.1  | 686.1  | 675.1  | 871.0  | 1094.8 | 966.4  | 813.0  | 817.5  | 785.9  |
| 72.5° | 5586.4  | 4091.7 | 733.1  | 649.4  | 629.6  | 794.0  | 1066.9 | 935.6  | 783.0  | 749.2  | 707.4  |
| 75°   | 3037.9  | 2196.3 | 623.0  | 611.3  | 549.6  | 697.1  | 1015.6 | 913.6  | 755.8  | 711.1  | 687.6  |
| 77.5° | 1195.4  | 911.4  | 540.8  | 559.2  | 480.6  | 615.7  | 958.3  | 871.8  | 718.4  | 659.7  | 647.9  |
| 80°   | 488.0   | 465.2  | 448.4  | 483.6  | 413.1  | 538.6  | 889.4  | 822.6  | 673.6  | 612.0  | 588.5  |
| 82.5° | 276.6   | 289.1  | 348.6  | 381.6  | 335.3  | 496.0  | 856.3  | 783.0  | 620.1  | 548.1  | 520.3  |
| 85°   | 141.6   | 169.5  | 242.9  | 273.7  | 246.6  | 421.9  | 788.8  | 685.4  | 497.5  | 419.7  | 421.9  |
| 87.5° | 68.2    | 94.7   | 153.4  | 171.7  | 160.0  | 305.3  | 589.2  | 496.8  | 387.4  | 306.7  | 297.2  |
| 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)