

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: P319326

Luminaire Tested: **GAN-SA2C-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12911 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

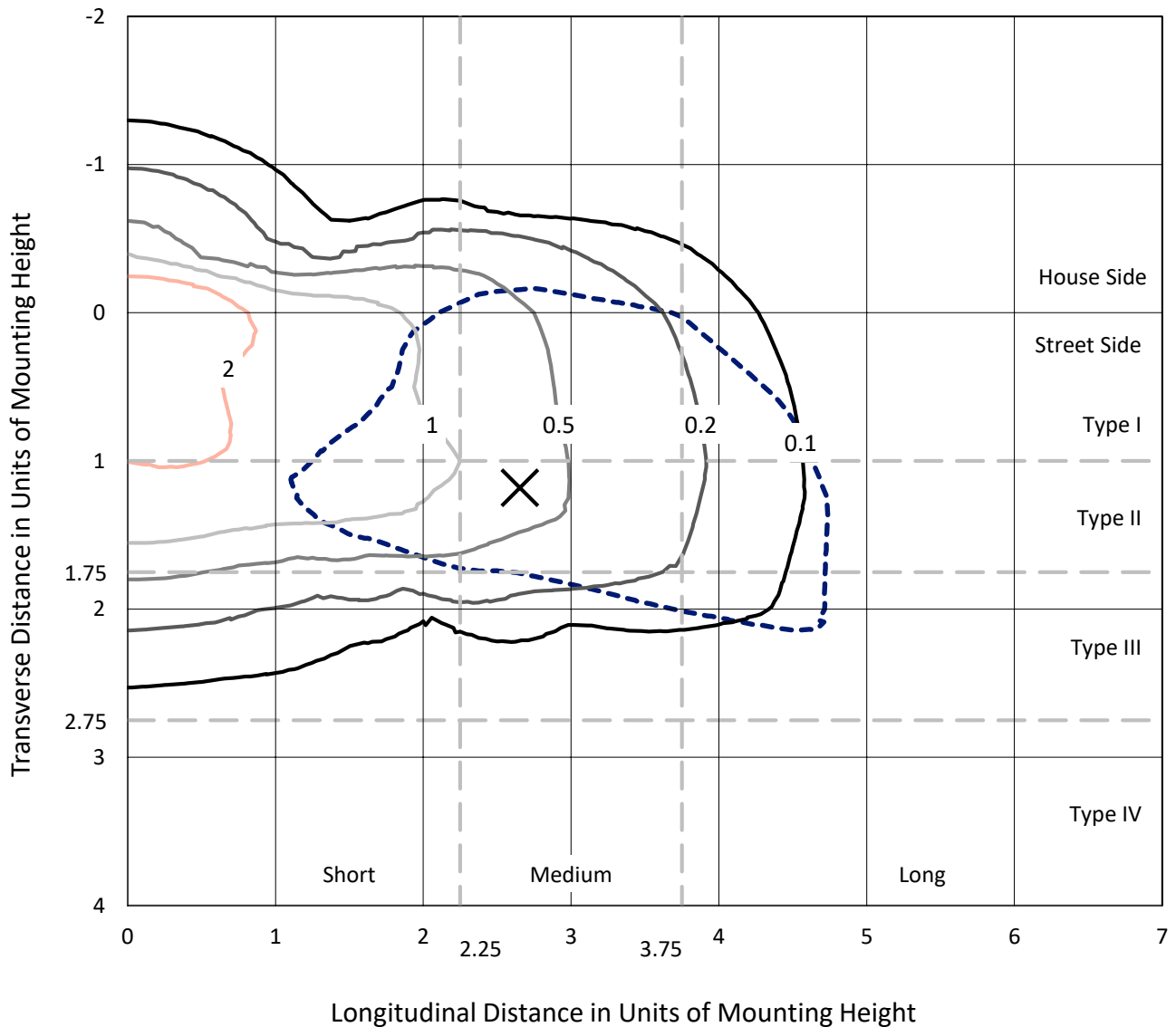
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

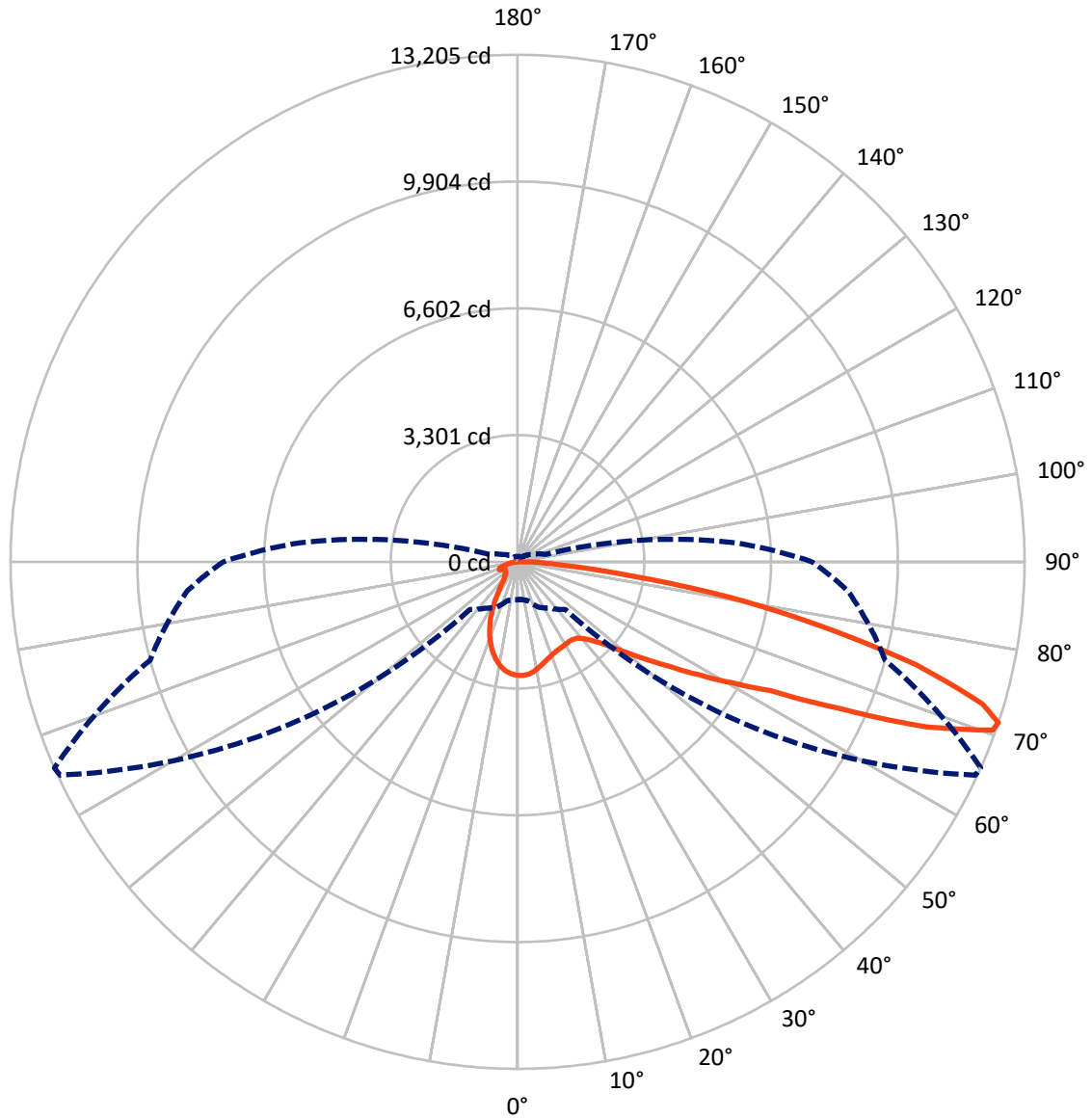
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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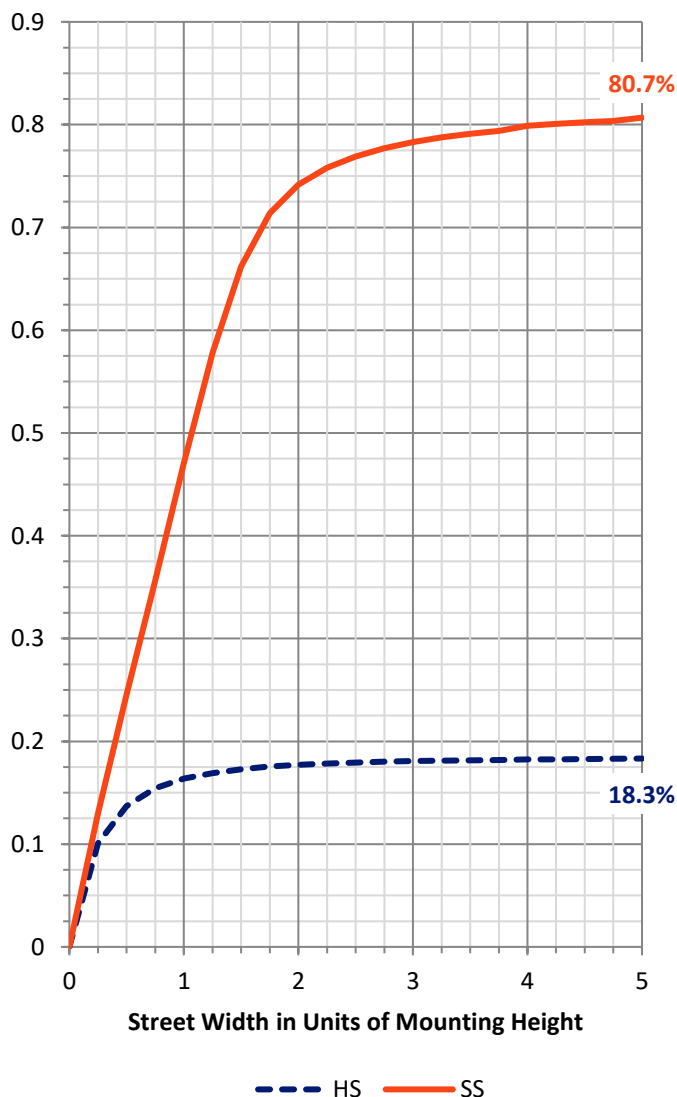
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2392.8   | 0.0    | 2392.8  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 10518.2  | 0.0    | 10518.2 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 12911.0  | 0.0    | 12911.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 260.3   | 2.0       |
| 10°-20°   | 624.4   | 4.8       |
| 20°-30°   | 838.8   | 6.5       |
| 30°-40°   | 1103.4  | 8.5       |
| 40°-50°   | 1605.1  | 12.4      |
| 50°-60°   | 2507.3  | 19.4      |
| 60°-70°   | 3140.9  | 24.3      |
| 70°-80°   | 2395.8  | 18.6      |
| 80°-90°   | 435.0   | 3.4       |
| 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°    | 12911.0 | 100.0     |
| 0°-180°   | 12911.0 | 100.0     |

**Coefficient of Utilization**



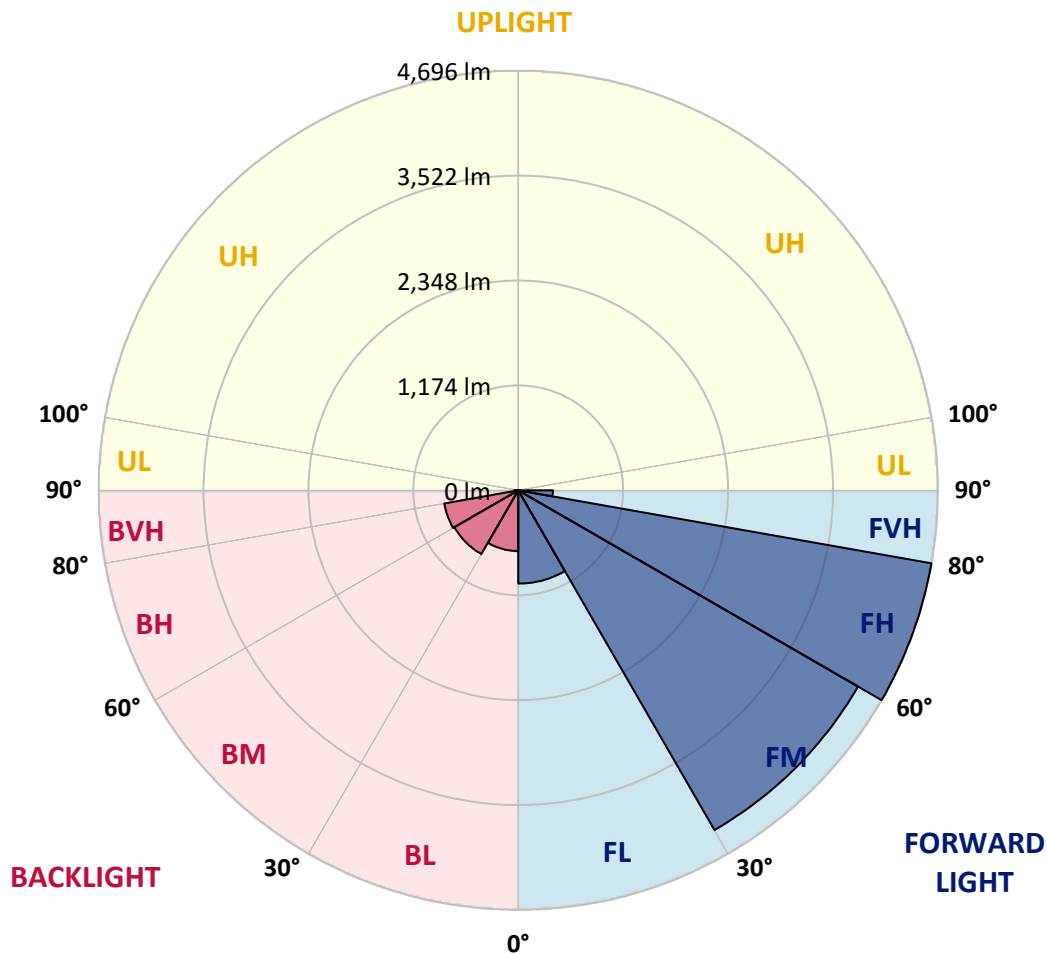
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1044.0 | 8.1       |                         |      |         |
| FM (30°-60°)   | 4390.4 | 34.0      |                         |      |         |
| FH (60°-80°)   | 4695.9 | 36.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 387.9  | 3.0       |                         |      | G3/500  |
| BL (0°-30°)    | 679.5  | 5.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 825.4  | 6.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 840.8  | 6.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 47.1   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 66°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7  | 2957.7  | 2957.7  | 2957.7  | 2957.7 |
| 2.5°  | 2902.8 | 2898.4 | 2911.7 | 2925.6 | 2930.9 | 2939.8 | 2953.2  | 2960.8  | 2960.3  | 2961.7  | 2957.2 |
| 5°    | 2710.3 | 2704.5 | 2731.2 | 2753.1 | 2795.0 | 2842.2 | 2899.7  | 2940.7  | 2941.6  | 2964.8  | 2971.0 |
| 7.5°  | 2527.9 | 2523.9 | 2554.7 | 2589.9 | 2638.5 | 2710.7 | 2803.9  | 2892.1  | 2897.5  | 2960.3  | 2982.2 |
| 10°   | 2381.7 | 2380.8 | 2410.7 | 2449.0 | 2505.7 | 2586.3 | 2693.3  | 2822.6  | 2830.6  | 2938.9  | 2984.0 |
| 12.5° | 2267.6 | 2269.4 | 2295.3 | 2338.9 | 2398.7 | 2482.9 | 2598.8  | 2744.6  | 2757.5  | 2905.1  | 2973.7 |
| 15°   | 2183.4 | 2190.5 | 2211.4 | 2255.6 | 2314.4 | 2400.0 | 2519.0  | 2672.4  | 2692.0  | 2867.2  | 2967.9 |
| 17.5° | 2135.2 | 2143.2 | 2158.0 | 2194.5 | 2249.8 | 2332.2 | 2445.0  | 2613.1  | 2630.9  | 2838.2  | 2968.4 |
| 20°   | 2121.0 | 2127.6 | 2136.1 | 2158.4 | 2205.2 | 2280.1 | 2386.6  | 2559.6  | 2578.8  | 2815.0  | 2972.8 |
| 22.5° | 2149.0 | 2153.9 | 2154.8 | 2153.1 | 2181.6 | 2242.7 | 2344.3  | 2520.4  | 2540.9  | 2799.9  | 2975.9 |
| 25°   | 2209.2 | 2215.9 | 2211.0 | 2194.5 | 2185.1 | 2222.6 | 2322.4  | 2494.5  | 2515.0  | 2788.7  | 2969.7 |
| 27.5° | 2299.7 | 2300.6 | 2296.6 | 2275.2 | 2231.1 | 2224.8 | 2315.8  | 2479.4  | 2499.0  | 2775.8  | 2956.8 |
| 30°   | 2422.7 | 2428.5 | 2421.4 | 2392.4 | 2320.2 | 2260.5 | 2323.8  | 2464.6  | 2482.5  | 2759.3  | 2935.8 |
| 32.5° | 2566.7 | 2581.0 | 2580.5 | 2550.2 | 2446.8 | 2340.3 | 2356.8  | 2455.7  | 2469.5  | 2741.9  | 2910.4 |
| 35°   | 2716.1 | 2735.7 | 2772.2 | 2759.3 | 2631.4 | 2466.4 | 2420.1  | 2470.0  | 2479.4  | 2739.7  | 2892.6 |
| 37.5° | 2871.2 | 2890.8 | 2966.1 | 3000.9 | 2851.1 | 2647.0 | 2519.9  | 2520.4  | 2524.8  | 2766.9  | 2891.2 |
| 40°   | 3033.4 | 3054.4 | 3167.6 | 3258.1 | 3136.0 | 2875.6 | 2680.8  | 2625.6  | 2620.7  | 2833.7  | 2917.5 |
| 42.5° | 3260.8 | 3279.5 | 3415.5 | 3530.9 | 3452.0 | 3168.5 | 2903.3  | 2787.8  | 2777.6  | 2964.8  | 3001.8 |
| 45°   | 3548.3 | 3564.3 | 3708.8 | 3832.3 | 3791.7 | 3502.8 | 3182.8  | 3011.2  | 3009.4  | 3183.2  | 3172.5 |
| 47.5° | 3890.2 | 3902.7 | 4032.4 | 4151.9 | 4166.6 | 3887.5 | 3534.0  | 3355.7  | 3326.8  | 3482.8  | 3436.9 |
| 50°   | 4246.4 | 4260.2 | 4348.5 | 4476.8 | 4586.0 | 4402.4 | 3986.0  | 3777.9  | 3739.1  | 3878.2  | 3811.3 |
| 52.5° | 4482.2 | 4500.5 | 4577.1 | 4739.8 | 5057.7 | 4966.7 | 4520.5  | 4289.6  | 4230.8  | 4357.4  | 4306.1 |
| 55°   | 4377.0 | 4418.0 | 4535.2 | 4796.0 | 5434.8 | 5828.8 | 5179.8  | 4886.5  | 4820.1  | 4925.3  | 4895.0 |
| 57.5° | 3898.7 | 3954.8 | 4114.9 | 4517.4 | 5487.8 | 6588.4 | 6176.5  | 5589.5  | 5542.7  | 5512.3  | 5526.2 |
| 60°   | 3024.5 | 3078.5 | 3276.8 | 3801.5 | 5118.3 | 7143.0 | 7676.5  | 6456.0  | 6388.3  | 6101.7  | 6114.1 |
| 62.5° | 2140.6 | 2113.4 | 2249.3 | 2633.1 | 4159.0 | 7208.0 | 9383.4  | 7615.0  | 7392.1  | 6723.9  | 6669.1 |
| 65°   | 1632.4 | 1626.2 | 1687.2 | 1809.4 | 2519.0 | 6429.3 | 10400.2 | 9563.0  | 9214.9  | 7455.9  | 7326.6 |
| 67.5° | 1341.3 | 1330.2 | 1390.3 | 1568.2 | 1622.1 | 4147.9 | 10422.5 | 11823.1 | 11481.2 | 8367.0  | 8087.1 |
| 70°   | 1102.8 | 1090.3 | 1146.5 | 1376.1 | 1499.1 | 2103.6 | 8771.8  | 13146.5 | 13128.3 | 9520.7  | 8661.2 |
| 71°   | 988.7  | 979.8  | 1047.1 | 1302.1 | 1472.8 | 1753.2 | 7573.6  | 13150.1 | 13204.9 | 9911.2  | 8627.4 |
| 72.5° | 805.1  | 808.2  | 879.5  | 1159.0 | 1453.2 | 1548.1 | 5566.3  | 12537.2 | 12653.1 | 10283.4 | 8319.3 |
| 75°   | 534.9  | 537.6  | 631.2  | 891.5  | 1409.1 | 1514.7 | 3059.3  | 10520.1 | 10733.2 | 10060.5 | 7591.4 |
| 77.5° | 359.3  | 358.4  | 422.1  | 611.6  | 1227.6 | 1514.7 | 1793.8  | 7868.2  | 8102.3  | 8005.1  | 5852.5 |
| 80°   | 247.4  | 245.6  | 290.6  | 422.1  | 929.4  | 1533.0 | 1386.8  | 5514.1  | 5585.0  | 4323.0  | 2378.6 |
| 82.5° | 151.6  | 152.9  | 189.9  | 298.2  | 632.5  | 1379.6 | 1309.2  | 3006.7  | 2929.6  | 1212.5  | 594.2  |
| 85°   | 86.9   | 86.5   | 121.2  | 201.9  | 406.1  | 1164.3 | 1276.7  | 1294.1  | 1187.1  | 365.1   | 214.9  |
| 87.5° | 31.2   | 33.4   | 65.1   | 111.9  | 232.7  | 810.8  | 1083.2  | 673.1   | 606.7   | 164.9   | 97.2   |
| 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°    | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 | 2957.7 |
| 2.5°  | 2954.1 | 2956.8 | 2953.6 | 2935.8 | 2920.7 | 2896.1 | 2882.3 | 2863.2 | 2857.4 | 2854.7 | 2861.8 |
| 5°    | 2965.2 | 2966.1 | 2939.8 | 2893.0 | 2840.4 | 2778.5 | 2733.9 | 2679.1 | 2653.2 | 2642.1 | 2649.2 |
| 7.5°  | 2975.5 | 2971.5 | 2914.0 | 2824.4 | 2727.2 | 2619.3 | 2523.5 | 2435.7 | 2384.4 | 2363.5 | 2365.2 |
| 10°   | 2976.8 | 2959.9 | 2867.6 | 2729.0 | 2578.3 | 2420.1 | 2273.0 | 2137.4 | 2051.9 | 1996.1 | 2013.1 |
| 12.5° | 2963.0 | 2934.5 | 2799.4 | 2605.5 | 2396.4 | 2180.7 | 1981.9 | 1778.6 | 1656.5 | 1599.9 | 1601.6 |
| 15°   | 2952.3 | 2900.6 | 2715.6 | 2460.2 | 2179.4 | 1893.6 | 1622.1 | 1383.2 | 1253.0 | 1195.1 | 1167.9 |
| 17.5° | 2943.4 | 2864.0 | 2618.4 | 2296.6 | 1923.0 | 1560.6 | 1234.3 | 1021.3 | 949.9  | 933.0  | 925.9  |
| 20°   | 2930.9 | 2825.3 | 2510.1 | 2107.1 | 1631.1 | 1188.0 | 901.3  | 796.1  | 796.6  | 816.2  | 818.9  |
| 22.5° | 2913.5 | 2781.1 | 2394.7 | 1894.5 | 1317.7 | 865.2  | 706.5  | 676.2  | 707.0  | 744.4  | 751.1  |
| 25°   | 2887.7 | 2729.0 | 2266.3 | 1659.6 | 1004.8 | 665.1  | 603.6  | 602.2  | 639.7  | 678.9  | 684.7  |
| 27.5° | 2851.1 | 2660.8 | 2123.6 | 1407.3 | 740.4  | 565.2  | 540.7  | 550.1  | 577.7  | 606.2  | 608.5  |
| 30°   | 2802.1 | 2581.4 | 1966.3 | 1141.2 | 580.4  | 503.3  | 500.6  | 509.1  | 526.0  | 546.1  | 547.8  |
| 32.5° | 2748.1 | 2500.7 | 1798.2 | 883.5  | 497.0  | 469.8  | 472.5  | 476.5  | 484.5  | 492.6  | 494.4  |
| 35°   | 2699.1 | 2418.3 | 1626.2 | 671.3  | 457.4  | 448.0  | 446.2  | 445.3  | 446.2  | 443.5  | 444.0  |
| 37.5° | 2667.5 | 2350.1 | 1447.0 | 534.5  | 434.6  | 428.8  | 423.5  | 416.8  | 409.2  | 404.8  | 405.6  |
| 40°   | 2655.9 | 2299.3 | 1265.5 | 461.8  | 415.9  | 411.9  | 401.6  | 387.4  | 378.5  | 375.8  | 375.8  |
| 42.5° | 2687.1 | 2273.0 | 1090.3 | 425.3  | 400.3  | 393.6  | 376.7  | 360.2  | 353.5  | 353.0  | 352.6  |
| 45°   | 2782.5 | 2283.7 | 923.6  | 405.2  | 386.0  | 373.1  | 350.8  | 337.0  | 332.5  | 333.4  | 333.0  |
| 47.5° | 2953.6 | 2351.0 | 781.0  | 391.8  | 371.8  | 354.8  | 329.9  | 318.7  | 313.4  | 313.4  | 313.8  |
| 50°   | 3244.7 | 2508.3 | 667.3  | 380.7  | 359.7  | 337.9  | 314.7  | 300.9  | 293.8  | 293.3  | 293.3  |
| 52.5° | 3668.7 | 2790.1 | 596.4  | 371.3  | 346.4  | 322.7  | 299.6  | 282.2  | 273.7  | 271.9  | 271.0  |
| 55°   | 4200.0 | 3193.9 | 576.8  | 365.1  | 328.5  | 306.2  | 281.3  | 263.9  | 254.5  | 250.5  | 250.1  |
| 57.5° | 4794.2 | 3685.2 | 615.6  | 357.5  | 310.3  | 286.6  | 261.2  | 244.7  | 234.9  | 230.0  | 229.6  |
| 60°   | 5395.6 | 4221.4 | 773.9  | 346.8  | 295.1  | 265.2  | 240.7  | 225.6  | 215.8  | 210.4  | 209.5  |
| 62.5° | 5997.8 | 4786.6 | 1097.0 | 345.9  | 284.4  | 244.7  | 219.8  | 206.8  | 197.5  | 191.7  | 190.3  |
| 65°   | 6677.1 | 5405.4 | 1464.3 | 369.5  | 280.8  | 226.0  | 198.4  | 188.1  | 180.1  | 174.7  | 174.3  |
| 67.5° | 7457.2 | 6103.9 | 1429.1 | 418.1  | 292.9  | 209.1  | 178.3  | 170.3  | 164.5  | 160.0  | 159.6  |
| 70°   | 7823.2 | 5994.7 | 888.4  | 452.5  | 309.8  | 192.6  | 159.1  | 153.3  | 148.9  | 145.8  | 144.4  |
| 71°   | 7669.9 | 5692.0 | 744.9  | 448.4  | 308.0  | 185.4  | 151.6  | 147.1  | 142.6  | 140.0  | 138.6  |
| 72.5° | 7251.7 | 5190.9 | 621.4  | 417.2  | 288.0  | 172.5  | 141.8  | 137.3  | 133.3  | 130.2  | 129.3  |
| 75°   | 6507.3 | 4636.0 | 497.5  | 333.4  | 229.6  | 145.8  | 124.4  | 119.5  | 116.3  | 114.6  | 112.8  |
| 77.5° | 4783.5 | 3308.5 | 384.7  | 263.4  | 168.9  | 119.0  | 106.1  | 102.5  | 99.4   | 96.7   | 95.4   |
| 80°   | 1832.5 | 1281.6 | 259.0  | 196.6  | 123.9  | 94.1   | 85.6   | 83.8   | 80.7   | 78.9   | 78.9   |
| 82.5° | 493.5  | 382.9  | 138.2  | 119.0  | 82.9   | 68.6   | 65.5   | 64.6   | 62.0   | 58.4   | 58.8   |
| 85°   | 199.7  | 168.9  | 77.6   | 65.5   | 50.8   | 40.6   | 44.1   | 44.6   | 41.5   | 37.0   | 37.4   |
| 87.5° | 87.8   | 71.8   | 43.2   | 29.0   | 22.3   | 15.6   | 20.1   | 20.1   | 18.3   | 15.2   | 13.8   |
| 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)