

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: P323246

Luminaire Tested: **GAN-SA2C-750-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11986 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

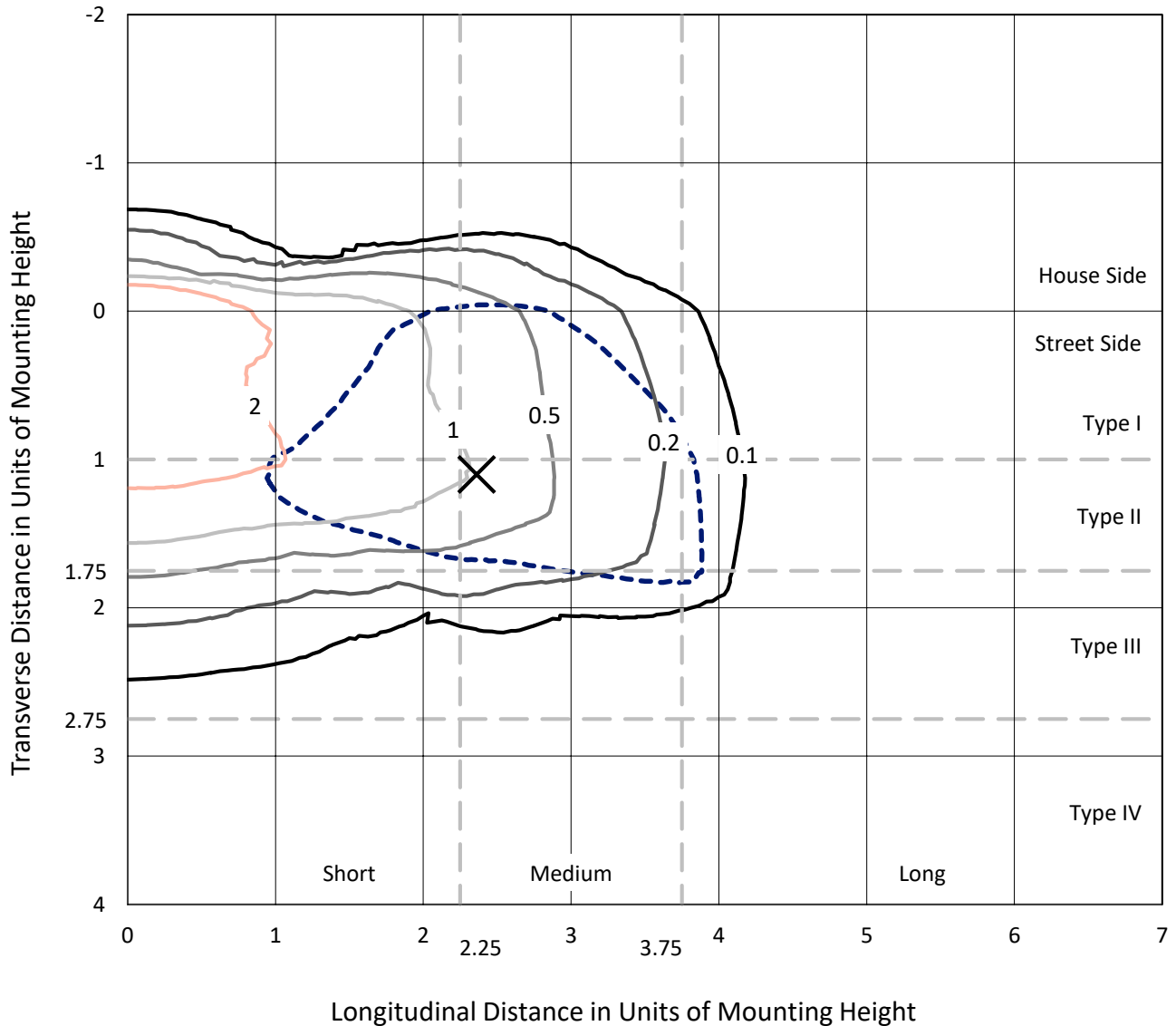
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

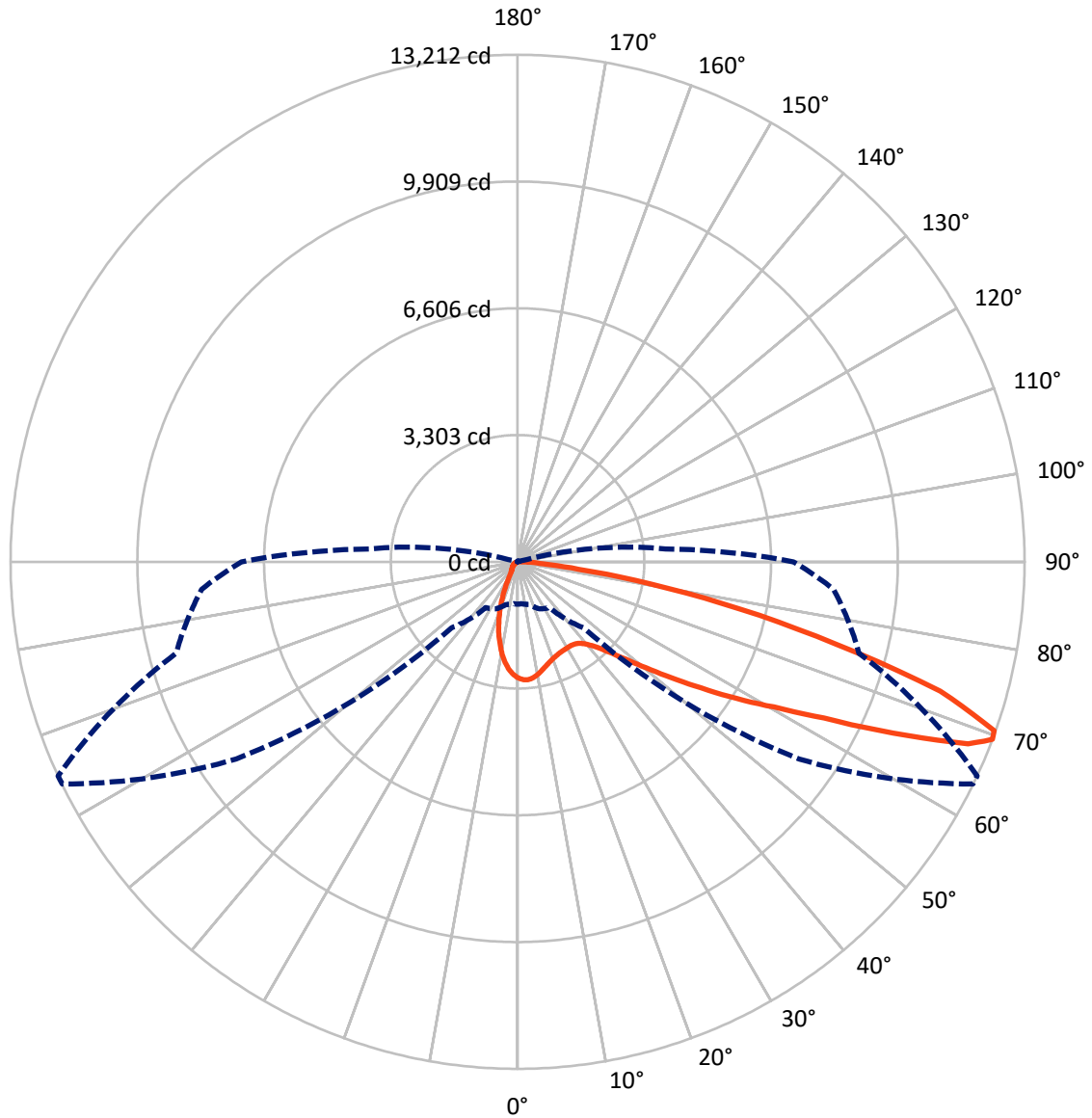
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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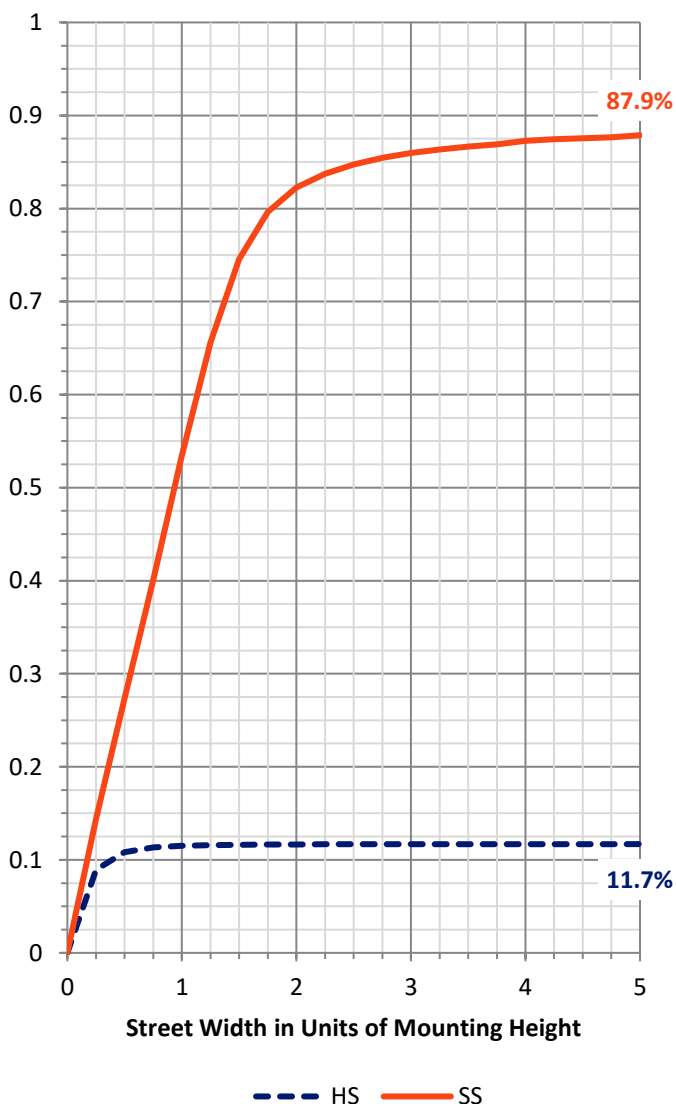
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1412.9   | 0.0    | 1412.9  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 10573.1  | 0.0    | 10573.1 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 11986.0  | 0.0    | 11986.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.3   | 2.1       |
| 10°-20°   | 554.4   | 4.6       |
| 20°-30°   | 767.9   | 6.4       |
| 30°-40°   | 1070.7  | 8.9       |
| 40°-50°   | 1664.2  | 13.9      |
| 50°-60°   | 2671.8  | 22.3      |
| 60°-70°   | 3022.2  | 25.2      |
| 70°-80°   | 1775.0  | 14.8      |
| 80°-90°   | 206.5   | 1.7       |
| 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°    | 11986.0 | 100.0     |
| 0°-180°   | 11986.0 | 100.0     |

**Coefficient of Utilization**



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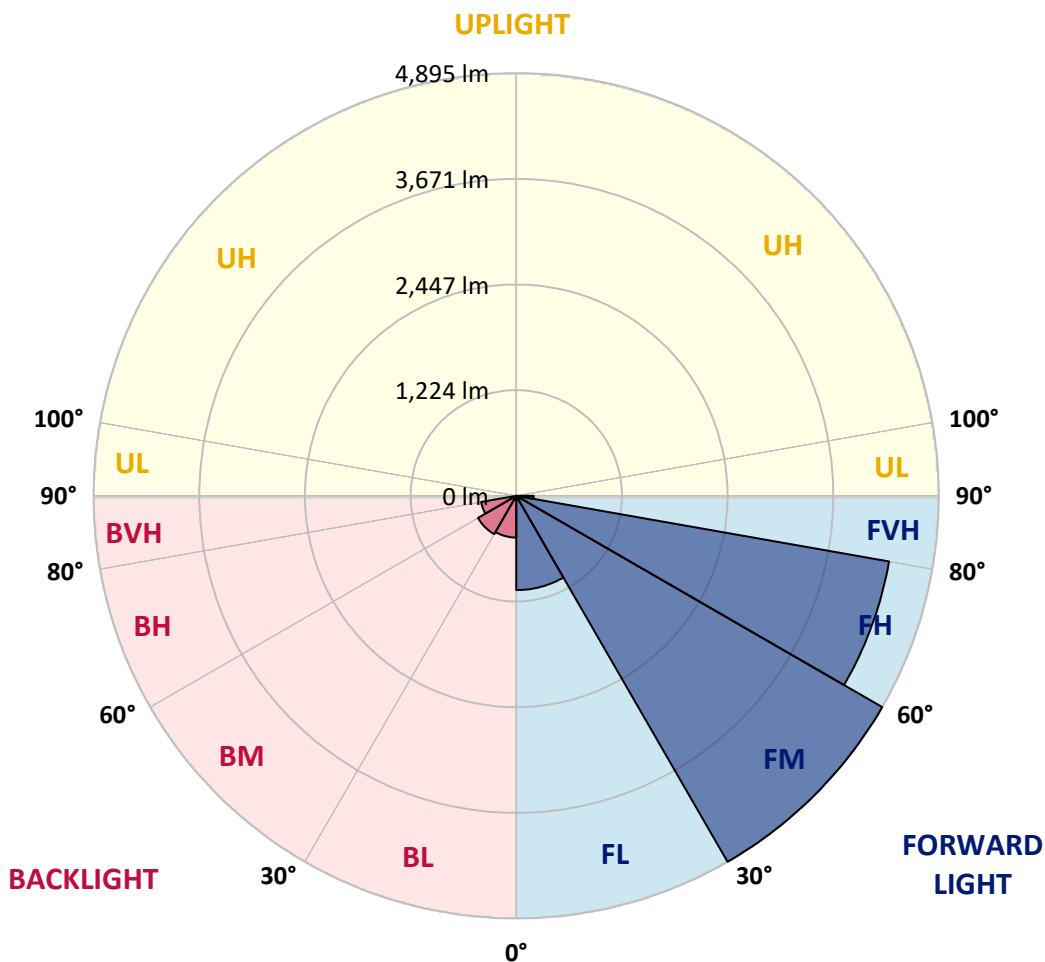
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1092.2 | 9.1       |                         |      |         |
| FM (30°-60°)   | 4894.7 | 40.8      |                         |      |         |
| FH (60°-80°)   | 4384.4 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 201.8  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 483.4  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 512.0  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 412.8  | 3.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.6    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 64°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9  | 3028.9  | 3028.9  | 3028.9 | 3028.9 |
| 2.5°  | 3055.8 | 3048.2 | 3054.2 | 3067.4 | 3074.0 | 3074.0 | 3079.1  | 3073.0  | 3075.0  | 3060.3 | 3039.0 |
| 5°    | 2864.6 | 2852.9 | 2869.6 | 2906.7 | 2952.3 | 2991.4 | 3049.2  | 3079.6  | 3082.6  | 3083.2 | 3058.3 |
| 7.5°  | 2658.6 | 2648.0 | 2672.8 | 2716.5 | 2775.3 | 2847.8 | 2948.7  | 3037.0  | 3042.1  | 3089.7 | 3071.5 |
| 10°   | 2491.3 | 2483.7 | 2512.6 | 2559.2 | 2628.2 | 2709.4 | 2833.1  | 2955.8  | 2970.6  | 3076.1 | 3069.5 |
| 12.5° | 2358.4 | 2352.3 | 2379.7 | 2433.5 | 2504.0 | 2593.7 | 2723.1  | 2865.6  | 2885.4  | 3045.1 | 3059.3 |
| 15°   | 2261.5 | 2260.5 | 2283.3 | 2335.1 | 2413.2 | 2496.9 | 2629.2  | 2781.9  | 2804.7  | 3011.6 | 3057.8 |
| 17.5° | 2210.8 | 2212.3 | 2229.1 | 2273.2 | 2340.1 | 2423.3 | 2550.1  | 2711.4  | 2736.2  | 2981.7 | 3065.4 |
| 20°   | 2205.7 | 2207.3 | 2216.4 | 2241.2 | 2295.5 | 2369.0 | 2485.7  | 2652.0  | 2677.9  | 2959.4 | 3077.6 |
| 22.5° | 2250.4 | 2249.3 | 2251.9 | 2249.3 | 2279.8 | 2335.6 | 2443.1  | 2606.4  | 2636.3  | 2944.7 | 3087.2 |
| 25°   | 2336.1 | 2334.6 | 2333.5 | 2314.8 | 2294.5 | 2324.4 | 2425.3  | 2580.5  | 2608.9  | 2934.0 | 3092.8 |
| 27.5° | 2455.3 | 2454.2 | 2452.7 | 2421.8 | 2360.9 | 2342.2 | 2427.4  | 2570.9  | 2594.7  | 2925.4 | 3091.8 |
| 30°   | 2612.0 | 2619.1 | 2617.1 | 2573.9 | 2479.1 | 2396.4 | 2448.7  | 2565.8  | 2586.6  | 2908.7 | 3081.1 |
| 32.5° | 2796.1 | 2810.3 | 2821.4 | 2775.3 | 2656.6 | 2504.0 | 2497.9  | 2571.4  | 2586.6  | 2896.0 | 3061.8 |
| 35°   | 2987.3 | 3005.6 | 3046.6 | 3030.4 | 2874.2 | 2665.7 | 2582.6  | 2604.9  | 2617.6  | 2903.1 | 3052.7 |
| 37.5° | 3175.5 | 3197.3 | 3286.5 | 3333.7 | 3159.2 | 2879.8 | 2714.4  | 2687.6  | 2694.1  | 2946.2 | 3062.9 |
| 40°   | 3394.1 | 3427.0 | 3562.4 | 3638.5 | 3499.5 | 3166.3 | 2911.7  | 2829.6  | 2832.1  | 3041.1 | 3110.0 |
| 42.5° | 3681.1 | 3715.1 | 3861.7 | 3980.9 | 3883.0 | 3528.5 | 3179.5  | 3046.6  | 3044.1  | 3218.6 | 3221.1 |
| 45°   | 4031.1 | 4066.6 | 4218.2 | 4350.6 | 4306.5 | 3957.5 | 3522.4  | 3363.6  | 3360.6  | 3498.5 | 3431.6 |
| 47.5° | 4427.7 | 4462.7 | 4598.1 | 4734.5 | 4782.2 | 4458.6 | 3959.1  | 3796.2  | 3789.1  | 3887.5 | 3756.7 |
| 50°   | 4768.0 | 4790.8 | 4915.6 | 5099.2 | 5314.2 | 5074.3 | 4502.2  | 4345.5  | 4337.9  | 4404.4 | 4233.9 |
| 52.5° | 4891.8 | 4904.9 | 5031.7 | 5288.9 | 5825.5 | 5908.1 | 5215.8  | 5014.0  | 5008.4  | 5037.3 | 4869.4 |
| 55°   | 4641.2 | 4665.0 | 4820.8 | 5202.2 | 6102.4 | 6850.5 | 6116.6  | 5841.7  | 5799.6  | 5737.2 | 5533.8 |
| 57.5° | 3958.5 | 3996.6 | 4164.0 | 4671.1 | 5973.1 | 7598.1 | 7440.3  | 6778.0  | 6716.1  | 6334.7 | 6074.0 |
| 60°   | 2966.0 | 3012.7 | 3151.6 | 3698.9 | 5282.8 | 7864.3 | 8886.8  | 7821.2  | 7681.8  | 6810.4 | 6570.5 |
| 62.5° | 2035.3 | 2058.6 | 2153.0 | 2509.5 | 3890.6 | 7428.2 | 10097.0 | 9218.5  | 8963.9  | 7327.7 | 7107.6 |
| 65°   | 1554.5 | 1562.6 | 1601.2 | 1723.9 | 2316.8 | 6033.9 | 10578.3 | 11062.1 | 10754.3 | 7946.5 | 7665.0 |
| 67.5° | 1252.7 | 1246.1 | 1299.4 | 1474.9 | 1551.5 | 3681.1 | 10016.8 | 12806.3 | 12662.3 | 8773.7 | 8226.0 |
| 69°   | 1104.6 | 1095.5 | 1149.8 | 1353.7 | 1457.1 | 2433.5 | 8954.8  | 13202.4 | 13211.6 | 9210.4 | 8264.5 |
| 70°   | 994.1  | 1000.2 | 1053.9 | 1281.6 | 1425.2 | 1910.0 | 7940.4  | 13101.5 | 13173.5 | 9373.7 | 8033.2 |
| 72.5° | 663.9  | 680.1  | 788.2  | 1064.1 | 1370.4 | 1445.5 | 4794.4  | 11242.7 | 11519.6 | 9006.0 | 6892.1 |
| 75°   | 374.3  | 386.5  | 514.8  | 802.4  | 1291.3 | 1376.5 | 2532.4  | 8282.8  | 8550.6  | 7531.1 | 5314.7 |
| 77.5° | 183.6  | 190.2  | 291.1  | 517.8  | 1079.8 | 1311.6 | 1436.3  | 5626.2  | 5932.0  | 4915.6 | 3006.1 |
| 80°   | 77.6   | 81.1   | 145.6  | 319.5  | 771.9  | 1251.7 | 1066.6  | 3462.5  | 3500.6  | 1925.8 | 800.8  |
| 82.5° | 29.9   | 30.9   | 61.4   | 199.3  | 490.4  | 975.8  | 892.1   | 1641.7  | 1602.2  | 362.6  | 182.6  |
| 85°   | 3.6    | 4.1    | 22.3   | 119.7  | 272.9  | 502.1  | 724.8   | 707.5   | 654.8   | 72.0   | 93.8   |
| 87.5° | 0.0    | 0.0    | 1.5    | 36.5   | 81.1   | 235.3  | 376.8   | 293.7   | 264.7   | 23.3   | 48.7   |
| 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°    | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 | 3028.9 |
| 2.5°  | 3021.3 | 3016.2 | 2988.8 | 2949.3 | 2911.7 | 2865.1 | 2820.4 | 2793.6 | 2772.2 | 2758.0 | 2774.8 |
| 5°    | 3029.4 | 3007.1 | 2923.9 | 2817.4 | 2712.9 | 2595.2 | 2485.7 | 2392.9 | 2356.4 | 2315.8 | 2334.0 |
| 7.5°  | 3026.9 | 2984.8 | 2835.1 | 2645.5 | 2453.7 | 2255.4 | 2067.8 | 1923.2 | 1848.2 | 1774.6 | 1793.4 |
| 10°   | 3014.2 | 2943.2 | 2716.5 | 2435.5 | 2148.4 | 1863.4 | 1597.1 | 1394.7 | 1281.6 | 1179.2 | 1193.9 |
| 12.5° | 2986.3 | 2887.4 | 2576.5 | 2195.1 | 1811.1 | 1435.3 | 1123.4 | 864.2  | 725.3  | 663.9  | 671.5  |
| 15°   | 2969.5 | 2833.1 | 2428.4 | 1951.6 | 1451.0 | 999.7  | 686.7  | 510.7  | 447.3  | 427.0  | 429.6  |
| 17.5° | 2961.4 | 2780.9 | 2275.2 | 1673.2 | 1082.8 | 636.5  | 443.8  | 391.5  | 377.8  | 374.3  | 375.3  |
| 20°   | 2953.3 | 2728.1 | 2117.5 | 1397.8 | 746.1  | 428.1  | 364.7  | 349.4  | 344.4  | 339.8  | 340.8  |
| 22.5° | 2939.6 | 2677.4 | 1948.1 | 1118.8 | 503.1  | 347.4  | 328.7  | 313.9  | 303.3  | 297.7  | 298.7  |
| 25°   | 2922.9 | 2624.2 | 1775.1 | 833.3  | 367.2  | 309.9  | 292.1  | 271.3  | 258.7  | 248.5  | 249.0  |
| 27.5° | 2896.0 | 2558.7 | 1596.6 | 606.6  | 308.4  | 277.4  | 253.6  | 230.8  | 209.5  | 197.8  | 197.8  |
| 30°   | 2858.5 | 2484.7 | 1398.3 | 434.1  | 276.4  | 245.5  | 216.6  | 188.2  | 165.3  | 154.7  | 153.7  |
| 32.5° | 2816.9 | 2407.6 | 1198.0 | 329.2  | 251.1  | 215.6  | 182.6  | 152.7  | 132.4  | 123.8  | 123.2  |
| 35°   | 2781.4 | 2324.4 | 998.1  | 275.9  | 225.7  | 186.6  | 150.6  | 125.3  | 109.0  | 101.9  | 101.4  |
| 37.5° | 2758.6 | 2241.2 | 803.4  | 246.5  | 202.9  | 159.8  | 126.3  | 103.5  | 91.8   | 86.2   | 85.7   |
| 40°   | 2755.0 | 2179.4 | 625.4  | 224.2  | 181.6  | 135.9  | 105.5  | 87.7   | 77.1   | 71.0   | 70.5   |
| 42.5° | 2801.2 | 2143.9 | 479.8  | 205.4  | 159.8  | 115.1  | 89.8   | 75.1   | 63.9   | 57.8   | 57.3   |
| 45°   | 2922.4 | 2155.0 | 369.2  | 188.7  | 138.0  | 97.4   | 76.1   | 62.4   | 52.2   | 47.7   | 46.7   |
| 47.5° | 3143.5 | 2232.1 | 293.7  | 171.9  | 117.2  | 82.7   | 64.9   | 51.7   | 43.1   | 38.5   | 38.0   |
| 50°   | 3537.1 | 2413.2 | 245.5  | 153.7  | 97.9   | 70.5   | 53.8   | 42.1   | 35.0   | 30.9   | 30.4   |
| 52.5° | 4059.5 | 2735.7 | 219.1  | 135.9  | 81.1   | 59.8   | 44.1   | 33.5   | 27.4   | 24.3   | 23.8   |
| 55°   | 4635.6 | 3126.3 | 201.9  | 116.7  | 66.4   | 49.7   | 35.0   | 26.4   | 21.3   | 18.8   | 17.8   |
| 57.5° | 5198.1 | 3464.6 | 185.6  | 97.9   | 55.3   | 40.6   | 27.9   | 20.8   | 16.7   | 14.2   | 13.7   |
| 60°   | 5714.9 | 3775.5 | 166.9  | 78.6   | 45.1   | 32.0   | 21.8   | 16.2   | 13.2   | 10.7   | 10.7   |
| 62.5° | 6268.2 | 4015.9 | 141.0  | 61.4   | 37.0   | 24.3   | 17.8   | 14.7   | 10.7   | 9.1    | 8.6    |
| 65°   | 6854.5 | 4194.4 | 110.6  | 47.7   | 28.9   | 18.3   | 14.7   | 15.2   | 8.6    | 6.6    | 6.1    |
| 67.5° | 7287.7 | 4158.9 | 81.7   | 37.5   | 22.3   | 14.2   | 14.2   | 16.2   | 7.6    | 5.1    | 4.6    |
| 69°   | 7192.3 | 3870.3 | 68.5   | 32.5   | 19.3   | 12.2   | 13.2   | 16.2   | 7.1    | 4.6    | 4.1    |
| 70°   | 6915.9 | 3550.8 | 60.4   | 28.9   | 17.2   | 11.2   | 12.7   | 15.7   | 6.6    | 4.6    | 4.1    |
| 72.5° | 5759.5 | 2674.4 | 47.2   | 21.8   | 13.7   | 9.1    | 10.7   | 13.7   | 6.6    | 4.6    | 3.6    |
| 75°   | 4332.3 | 1711.7 | 36.0   | 15.7   | 10.1   | 7.1    | 8.1    | 10.1   | 6.6    | 4.1    | 3.6    |
| 77.5° | 2357.4 | 617.2  | 25.9   | 10.7   | 7.1    | 5.6    | 5.6    | 7.6    | 6.1    | 3.0    | 2.0    |
| 80°   | 606.1  | 155.2  | 16.2   | 7.1    | 5.6    | 4.1    | 3.6    | 5.1    | 3.6    | 0.5    | 0.0    |
| 82.5° | 149.6  | 35.0   | 8.6    | 5.1    | 4.1    | 1.5    | 1.5    | 2.5    | 1.5    | 0.0    | 0.0    |
| 85°   | 82.2   | 17.2   | 5.6    | 3.6    | 2.0    | 0.0    | 0.0    | 0.5    | 0.0    | 0.0    | 0.0    |
| 87.5° | 42.1   | 5.1    | 1.5    | 1.0    | 0.5    | 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    |

(END OF REPORT)