

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: McGRAW-EDISON

Report Number: P942798

Luminaire Tested: **GALN-SB7A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7A-722-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19953 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 199.1  
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

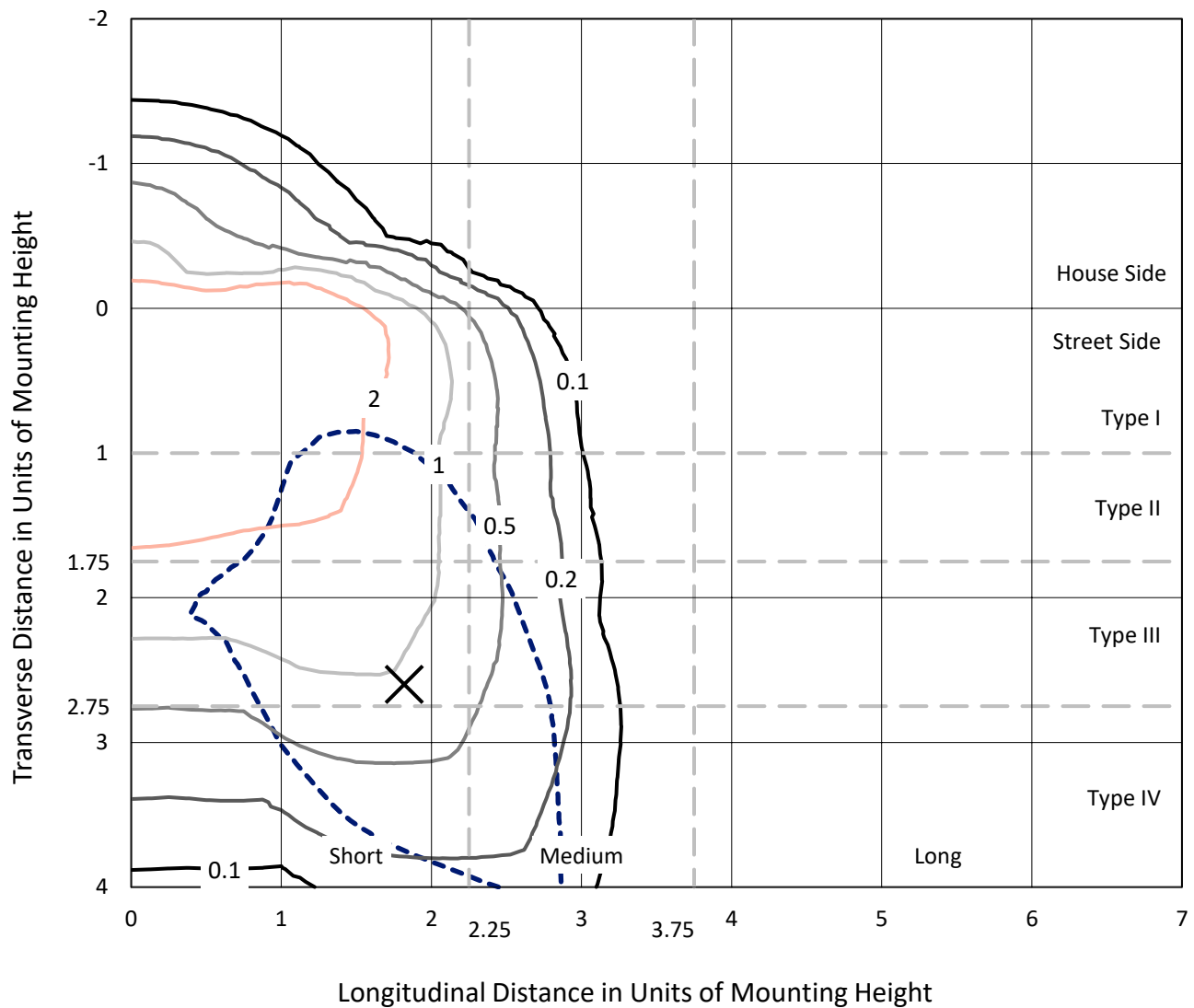


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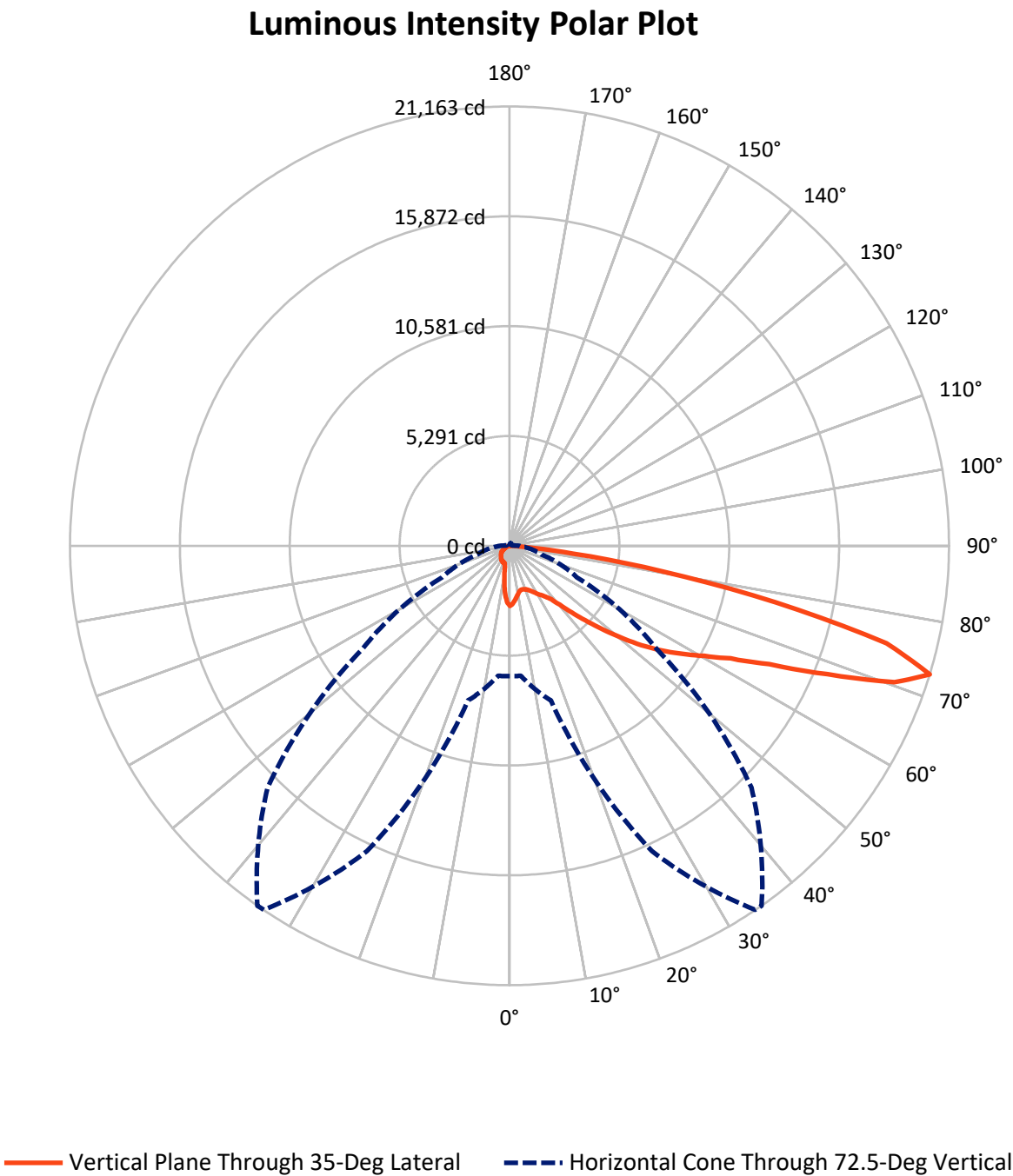
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
Type IV - Short - N/A

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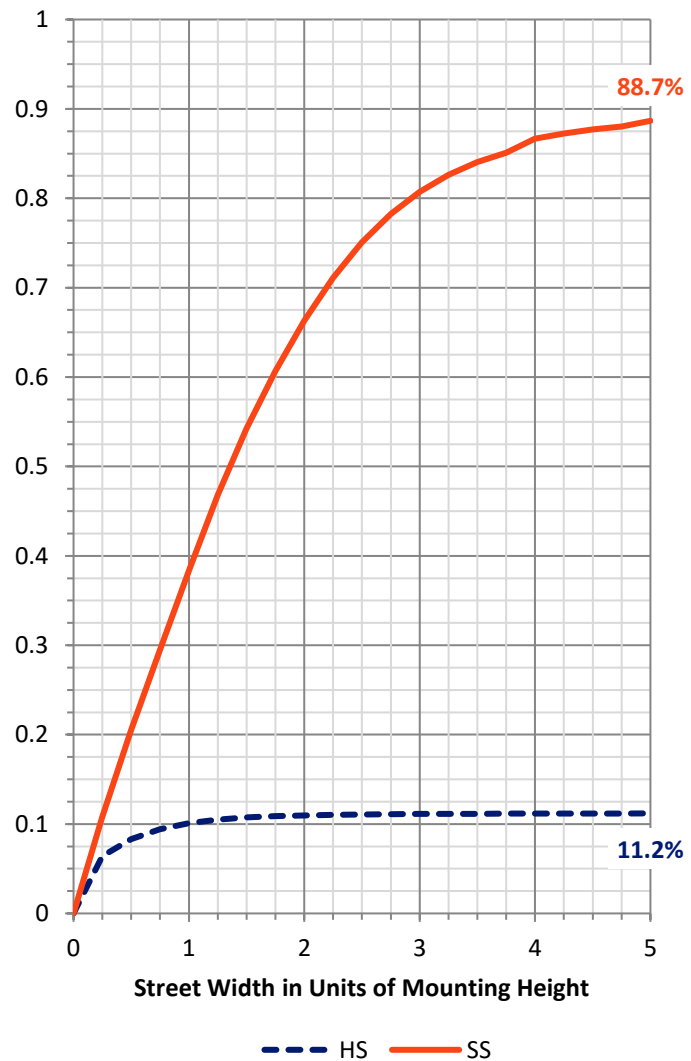
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2245.6   | 0.0    | 2245.6  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 17707.4  | 0.0    | 17707.4 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 19953.0  | 0.0    | 19953.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 237.6   | 1.2       |
| 10°-20°   | 555.9   | 2.8       |
| 20°-30°   | 903.1   | 4.5       |
| 30°-40°   | 1506.8  | 7.6       |
| 40°-50°   | 2850.8  | 14.3      |
| 50°-60°   | 4530.0  | 22.7      |
| 60°-70°   | 5603.9  | 28.1      |
| 70°-80°   | 3483.4  | 17.5      |
| 80°-90°   | 281.5   | 1.4       |
| 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°    | 19953.0 | 100.0     |
| 0°-180°   | 19953.0 | 100.0     |

**Coefficient of Utilization**



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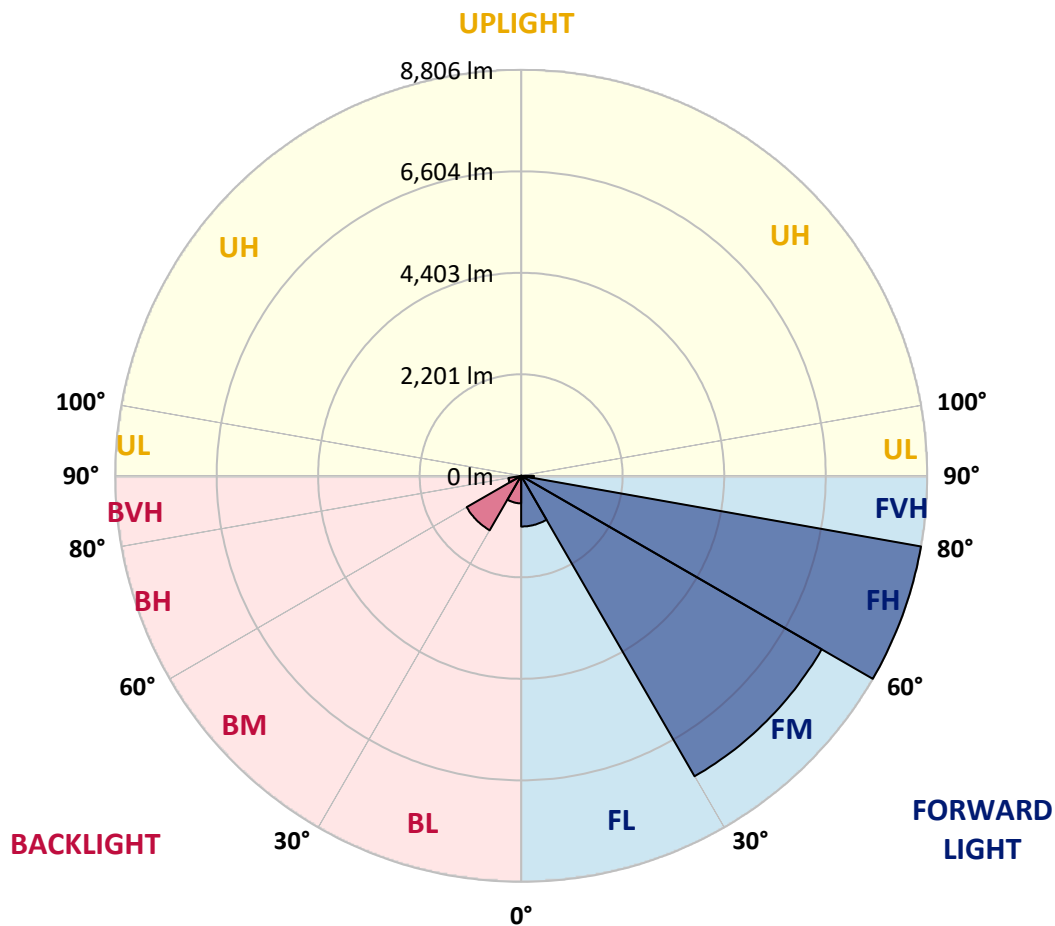
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1099.9 | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 7524.3 | 37.7      |                         |      |          |
| FH   | (60°-80°)   | 8805.5 | 44.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 277.7  | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 596.7  | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1363.3 | 6.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 281.8  | 1.4       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 3.8    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°    | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0°    | 2891.9  | 2891.9  | 2891.9  | 2891.9  | 2891.9  | 2891.9  | 2891.9  | 2891.9  | 2891.9 | 2891.9  | 2891.9  |
| 2.5°  | 2763.2  | 2786.6  | 2791.0  | 2798.3  | 2798.3  | 2807.1  | 2821.7  | 2842.2  | 2875.8 | 2893.3  | 2905.0  |
| 5°    | 2546.8  | 2564.4  | 2586.3  | 2603.8  | 2637.5  | 2641.9  | 2698.9  | 2754.4  | 2831.9 | 2890.4  | 2931.3  |
| 7.5°  | 2329.0  | 2349.5  | 2378.7  | 2421.1  | 2465.0  | 2478.1  | 2564.4  | 2657.9  | 2780.7 | 2890.4  | 2959.1  |
| 10°   | 2175.5  | 2176.9  | 2203.3  | 2245.6  | 2315.8  | 2331.9  | 2437.2  | 2570.2  | 2723.7 | 2872.9  | 2985.4  |
| 12.5° | 2089.2  | 2099.4  | 2111.1  | 2143.3  | 2210.6  | 2220.8  | 2333.4  | 2489.8  | 2666.7 | 2862.6  | 3016.1  |
| 15°   | 2089.2  | 2096.5  | 2103.8  | 2119.9  | 2174.0  | 2182.8  | 2282.2  | 2438.6  | 2637.5 | 2867.0  | 3065.8  |
| 17.5° | 2111.1  | 2122.8  | 2117.0  | 2136.0  | 2193.0  | 2198.9  | 2286.6  | 2424.0  | 2636.0 | 2894.8  | 3141.9  |
| 20°   | 2163.8  | 2172.5  | 2160.9  | 2172.5  | 2229.6  | 2241.3  | 2331.9  | 2451.8  | 2660.9 | 2943.0  | 3236.9  |
| 22.5° | 2247.1  | 2251.5  | 2223.7  | 2232.5  | 2291.0  | 2305.6  | 2410.9  | 2530.7  | 2720.8 | 3020.5  | 3364.1  |
| 25°   | 2352.4  | 2361.1  | 2318.8  | 2329.0  | 2384.5  | 2402.1  | 2523.4  | 2649.2  | 2815.8 | 3127.2  | 3526.4  |
| 27.5° | 2473.7  | 2478.1  | 2441.6  | 2440.1  | 2511.7  | 2536.6  | 2659.4  | 2795.4  | 2943.0 | 3261.7  | 3731.1  |
| 30°   | 2612.6  | 2625.8  | 2590.7  | 2584.8  | 2675.5  | 2695.9  | 2817.3  | 2975.2  | 3130.2 | 3463.5  | 4022.0  |
| 32.5° | 2722.3  | 2732.5  | 2712.0  | 2726.7  | 2818.8  | 2834.8  | 3008.8  | 3229.6  | 3424.0 | 3750.1  | 4418.2  |
| 35°   | 2880.2  | 2886.0  | 2839.2  | 2865.5  | 2970.8  | 3011.7  | 3270.5  | 3586.3  | 3793.9 | 4109.7  | 4935.8  |
| 37.5° | 3451.8  | 3451.8  | 3253.0  | 3122.9  | 3223.7  | 3260.3  | 3628.7  | 4035.2  | 4250.1 | 4592.2  | 5587.8  |
| 40°   | 4242.8  | 4229.6  | 3938.7  | 3672.6  | 3659.4  | 3731.1  | 4139.0  | 4601.0  | 4839.3 | 5171.1  | 6321.7  |
| 42.5° | 5086.3  | 5065.9  | 4669.7  | 4406.5  | 4362.6  | 4387.5  | 4728.1  | 5298.3  | 5541.0 | 5877.3  | 7111.2  |
| 45°   | 5834.9  | 5829.0  | 5466.5  | 5112.7  | 5033.7  | 5112.7  | 5463.5  | 6114.1  | 6288.1 | 6641.9  | 7899.2  |
| 47.5° | 6462.1  | 6462.1  | 6197.5  | 5966.5  | 5925.5  | 5972.3  | 6459.2  | 7019.1  | 7003.0 | 7456.3  | 8666.8  |
| 50°   | 7184.3  | 7178.5  | 6927.0  | 6827.6  | 6870.0  | 6935.8  | 7605.4  | 7972.3  | 7742.8 | 8256.0  | 9352.5  |
| 52.5° | 7690.2  | 7725.3  | 7639.0  | 7622.9  | 7839.3  | 7953.3  | 8769.1  | 8905.1  | 8405.1 | 9014.8  | 9865.7  |
| 55°   | 8090.8  | 8131.7  | 8231.1  | 8343.7  | 8760.4  | 8909.5  | 9896.4  | 9789.6  | 8959.2 | 9672.7  | 10161.0 |
| 57.5° | 8658.0  | 8599.6  | 8753.1  | 8975.3  | 9649.3  | 9829.1  | 10988.5 | 10624.4 | 9405.1 | 10206.3 | 10193.1 |
| 60°   | 9346.6  | 9355.4  | 9381.7  | 9662.4  | 10536.7 | 10767.7 | 12064.5 | 11413.9 | 9691.7 | 10533.8 | 9836.4  |
| 62.5° | 10174.1 | 10187.3 | 10241.4 | 10672.7 | 11728.3 | 11946.1 | 13210.7 | 12060.1 | 9823.3 | 10441.7 | 8915.3  |
| 65°   | 10117.1 | 10172.7 | 10776.5 | 12251.7 | 13539.7 | 13754.6 | 14548.5 | 12513.4 | 9624.4 | 9599.6  | 7258.9  |
| 67.5° | 9216.5  | 9307.2  | 10317.4 | 14137.7 | 16270.7 | 16510.5 | 16165.5 | 12602.5 | 8766.2 | 7465.0  | 4735.5  |
| 70°   | 8035.2  | 8067.4  | 9282.3  | 15833.6 | 19433.1 | 19675.8 | 17612.9 | 11621.5 | 6652.2 | 4163.8  | 2121.4  |
| 72.5° | 6275.0  | 6282.3  | 7707.7  | 16226.9 | 21149.5 | 21162.6 | 16476.9 | 8627.3  | 3577.5 | 1599.4  | 736.9   |
| 75°   | 4482.5  | 4438.7  | 5162.4  | 13159.6 | 18607.0 | 18756.1 | 12352.5 | 4046.8  | 1367.0 | 755.9   | 367.0   |
| 77.5° | 2403.5  | 2451.8  | 2921.1  | 7804.2  | 12854.0 | 13108.4 | 6739.9  | 1166.7  | 695.9  | 514.6   | 242.7   |
| 80°   | 742.7   | 783.6   | 1197.4  | 3573.2  | 7280.8  | 7434.3  | 2498.6  | 519.0   | 485.4  | 367.0   | 159.4   |
| 82.5° | 233.9   | 242.7   | 558.5   | 1501.5  | 3022.0  | 3092.2  | 723.7   | 293.9   | 331.9  | 242.7   | 93.6    |
| 85°   | 67.3    | 68.7    | 248.5   | 560.0   | 747.1   | 761.7   | 203.2   | 114.0   | 190.1  | 150.6   | 48.2    |
| 87.5° | 7.3     | 23.4    | 93.6    | 93.6    | 65.8    | 64.3    | 21.9    | 24.9    | 54.1   | 19.0    | 8.8     |
| 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°    | 2891.9 | 2891.9 | 2891.9 | 2891.9 | 2891.9 | 2891.9 | 2891.9 | 2891.9 | 2891.9 | 2891.9 | 2891.9 |
| 2.5°  | 2897.7 | 2899.2 | 2880.2 | 2848.0 | 2812.9 | 2783.7 | 2747.1 | 2717.9 | 2697.4 | 2691.6 | 2701.8 |
| 5°    | 2918.2 | 2907.9 | 2853.8 | 2755.9 | 2638.9 | 2538.1 | 2425.5 | 2336.3 | 2277.8 | 2253.0 | 2261.7 |
| 7.5°  | 2948.9 | 2919.6 | 2801.2 | 2608.2 | 2384.5 | 2185.7 | 1983.9 | 1827.5 | 1728.1 | 1678.4 | 1685.7 |
| 10°   | 2975.2 | 2916.7 | 2713.5 | 2394.8 | 2052.7 | 1751.5 | 1479.6 | 1291.0 | 1185.7 | 1136.0 | 1137.4 |
| 12.5° | 3000.0 | 2915.3 | 2599.5 | 2141.8 | 1678.4 | 1310.0 | 1057.0 | 963.5  | 934.2  | 924.0  | 921.1  |
| 15°   | 3046.8 | 2919.6 | 2456.2 | 1852.4 | 1305.6 | 989.8  | 897.7  | 896.2  | 902.1  | 899.1  | 897.7  |
| 17.5° | 3111.2 | 2924.0 | 2293.9 | 1545.3 | 1007.3 | 872.8  | 868.4  | 881.6  | 890.4  | 886.0  | 884.5  |
| 20°   | 3194.5 | 2941.6 | 2121.4 | 1241.2 | 865.5  | 843.6  | 853.8  | 865.5  | 872.8  | 865.5  | 864.0  |
| 22.5° | 3311.5 | 2972.3 | 1932.8 | 997.1  | 820.2  | 826.0  | 834.8  | 848.0  | 855.3  | 845.0  | 843.6  |
| 25°   | 3454.7 | 3020.5 | 1747.1 | 867.0  | 798.3  | 805.6  | 818.7  | 833.3  | 842.1  | 831.9  | 830.4  |
| 27.5° | 3640.4 | 3098.0 | 1576.0 | 837.7  | 776.3  | 780.7  | 799.7  | 821.7  | 833.3  | 820.2  | 820.2  |
| 30°   | 3909.4 | 3225.2 | 1428.4 | 850.9  | 763.2  | 752.9  | 779.3  | 810.0  | 823.1  | 811.4  | 810.0  |
| 32.5° | 4266.1 | 3405.0 | 1337.7 | 871.4  | 757.3  | 720.8  | 745.6  | 785.1  | 807.0  | 799.7  | 799.7  |
| 35°   | 4734.0 | 3678.4 | 1302.7 | 894.8  | 752.9  | 687.1  | 704.7  | 747.1  | 785.1  | 792.4  | 792.4  |
| 37.5° | 5301.3 | 4058.5 | 1312.9 | 905.0  | 739.8  | 659.4  | 668.1  | 704.7  | 754.4  | 777.8  | 783.6  |
| 40°   | 5946.0 | 4501.5 | 1371.4 | 894.8  | 725.2  | 636.0  | 637.4  | 665.2  | 709.1  | 744.2  | 755.9  |
| 42.5° | 6611.2 | 5019.1 | 1479.6 | 856.7  | 712.0  | 615.5  | 611.1  | 630.1  | 659.4  | 684.2  | 694.5  |
| 45°   | 7244.3 | 5551.3 | 1586.3 | 804.1  | 695.9  | 595.0  | 584.8  | 592.1  | 598.0  | 608.2  | 614.0  |
| 47.5° | 7796.9 | 5925.5 | 1555.6 | 755.9  | 674.0  | 571.6  | 554.1  | 551.2  | 533.6  | 532.2  | 530.7  |
| 50°   | 8178.5 | 6007.4 | 1381.6 | 707.6  | 641.8  | 545.3  | 517.6  | 500.0  | 469.3  | 454.7  | 456.1  |
| 52.5° | 8299.8 | 5684.3 | 1128.7 | 659.4  | 589.2  | 510.2  | 470.8  | 443.0  | 405.0  | 391.8  | 390.4  |
| 55°   | 8139.0 | 5051.2 | 902.1  | 600.9  | 516.1  | 463.5  | 419.6  | 383.0  | 352.3  | 336.3  | 336.3  |
| 57.5° | 7745.7 | 4245.7 | 713.5  | 532.2  | 438.6  | 410.8  | 367.0  | 330.4  | 304.1  | 288.0  | 285.1  |
| 60°   | 7093.7 | 3371.4 | 564.3  | 450.3  | 374.3  | 353.8  | 308.5  | 285.1  | 261.7  | 242.7  | 238.3  |
| 62.5° | 6103.9 | 2406.5 | 443.0  | 356.7  | 312.9  | 289.5  | 263.2  | 245.6  | 217.8  | 191.5  | 187.1  |
| 65°   | 4763.2 | 1472.2 | 342.1  | 261.7  | 251.5  | 239.8  | 223.7  | 207.6  | 174.0  | 147.7  | 143.3  |
| 67.5° | 3004.4 | 697.4  | 244.2  | 197.4  | 198.8  | 193.0  | 185.7  | 172.5  | 147.7  | 124.3  | 121.3  |
| 70°   | 1323.1 | 337.7  | 160.8  | 150.6  | 147.7  | 147.7  | 153.5  | 149.1  | 125.7  | 103.8  | 99.4   |
| 72.5° | 450.3  | 181.3  | 119.9  | 114.0  | 106.7  | 105.3  | 128.7  | 124.3  | 100.9  | 80.4   | 76.0   |
| 75°   | 235.4  | 121.3  | 87.7   | 81.9   | 64.3   | 77.5   | 102.3  | 96.5   | 71.6   | 52.6   | 48.2   |
| 77.5° | 153.5  | 86.3   | 59.9   | 52.6   | 36.6   | 51.2   | 76.0   | 67.3   | 42.4   | 26.3   | 23.4   |
| 80°   | 96.5   | 57.0   | 35.1   | 24.9   | 17.5   | 27.8   | 40.9   | 29.2   | 16.1   | 5.8    | 4.4    |
| 82.5° | 51.2   | 29.2   | 13.2   | 8.8    | 7.3    | 8.8    | 10.2   | 7.3    | 2.9    | 0.0    | 0.0    |
| 85°   | 20.5   | 10.2   | 4.4    | 2.9    | 1.5    | 0.0    | 2.9    | 1.5    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.3    | 1.5    | 0.0    | 0.0    | 0.0    | 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)