

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: P941778

Luminaire Tested: **GALN-SB5C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941778  
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-SB5C-722-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 615mA 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: 23662 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
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

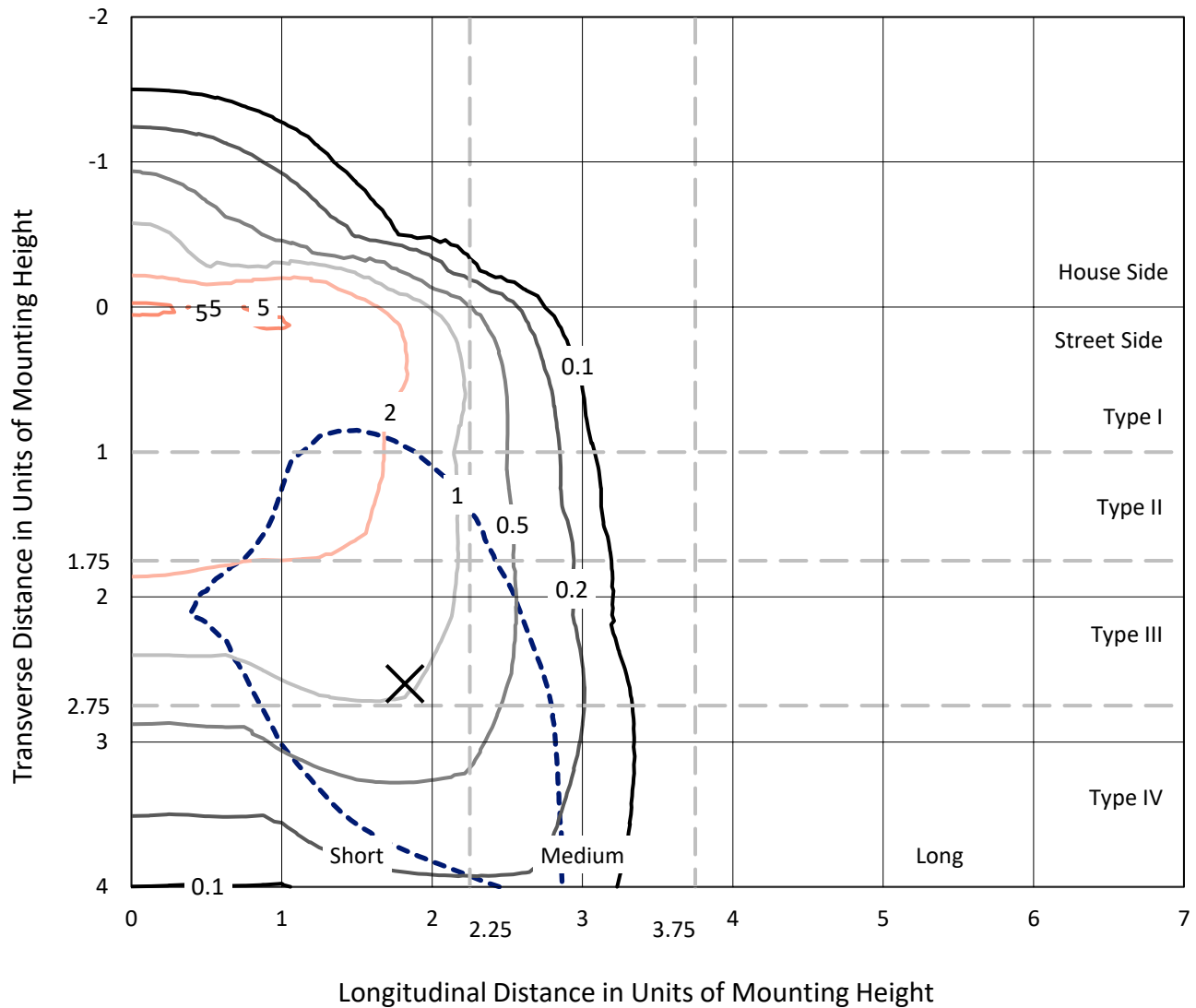


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## Iso-Footcandle Lines of Horizontal Illumination

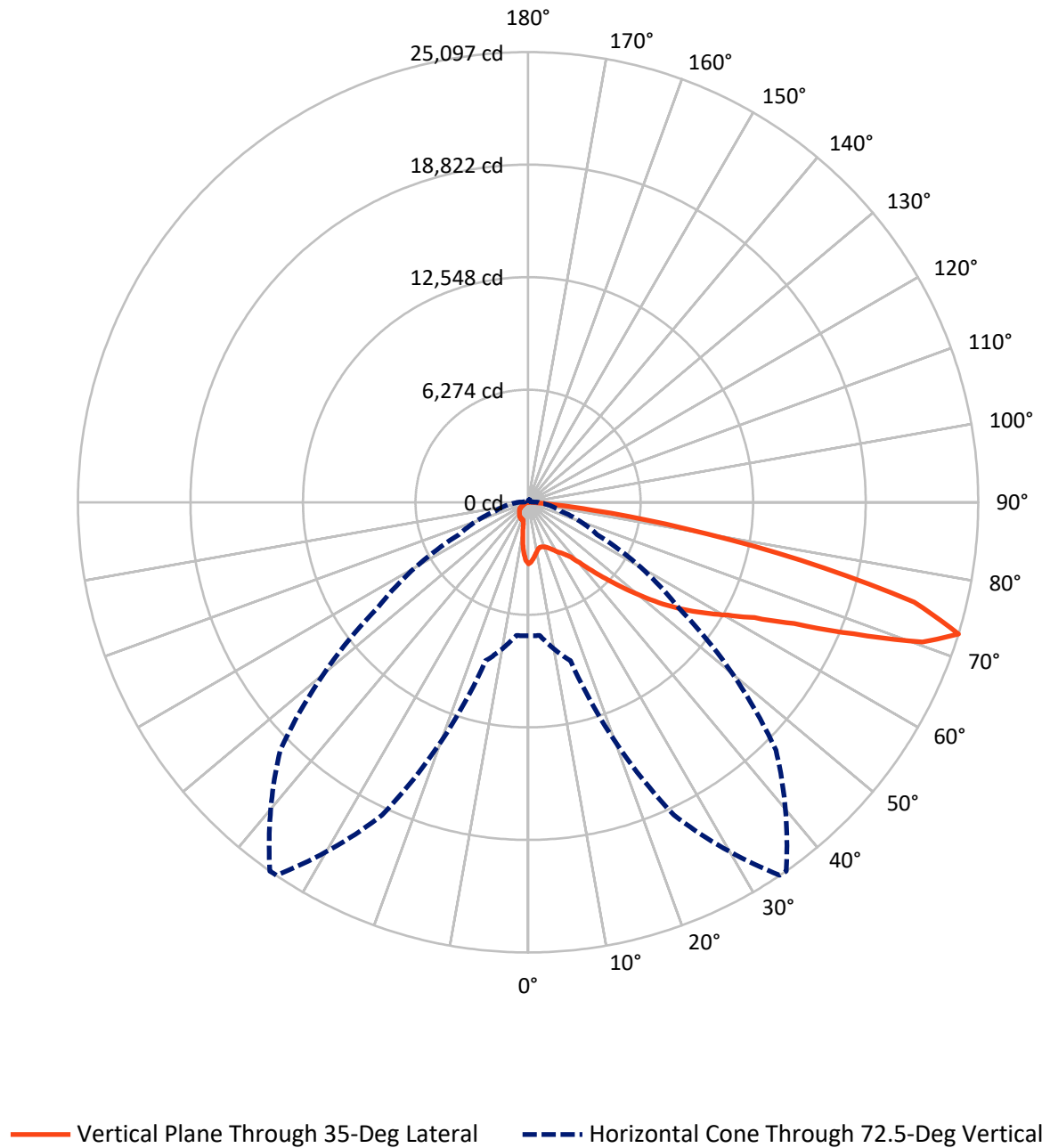
✕ Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2663.0   | 0.0    | 2663.0  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 20999.0  | 0.0    | 20999.0 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 23662.0  | 0.0    | 23662.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 281.8   | 1.2       |
| 10°-20°   | 659.3   | 2.8       |
| 20°-30°   | 1070.9  | 4.5       |
| 30°-40°   | 1786.9  | 7.6       |
| 40°-50°   | 3380.8  | 14.3      |
| 50°-60°   | 5372.0  | 22.7      |
| 60°-70°   | 6645.6  | 28.1      |
| 70°-80°   | 4130.9  | 17.5      |
| 80°-90°   | 333.8   | 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°    | 23662.0 | 100.0     |
| 0°-180°   | 23662.0 | 100.0     |

**Coefficient of Utilization**



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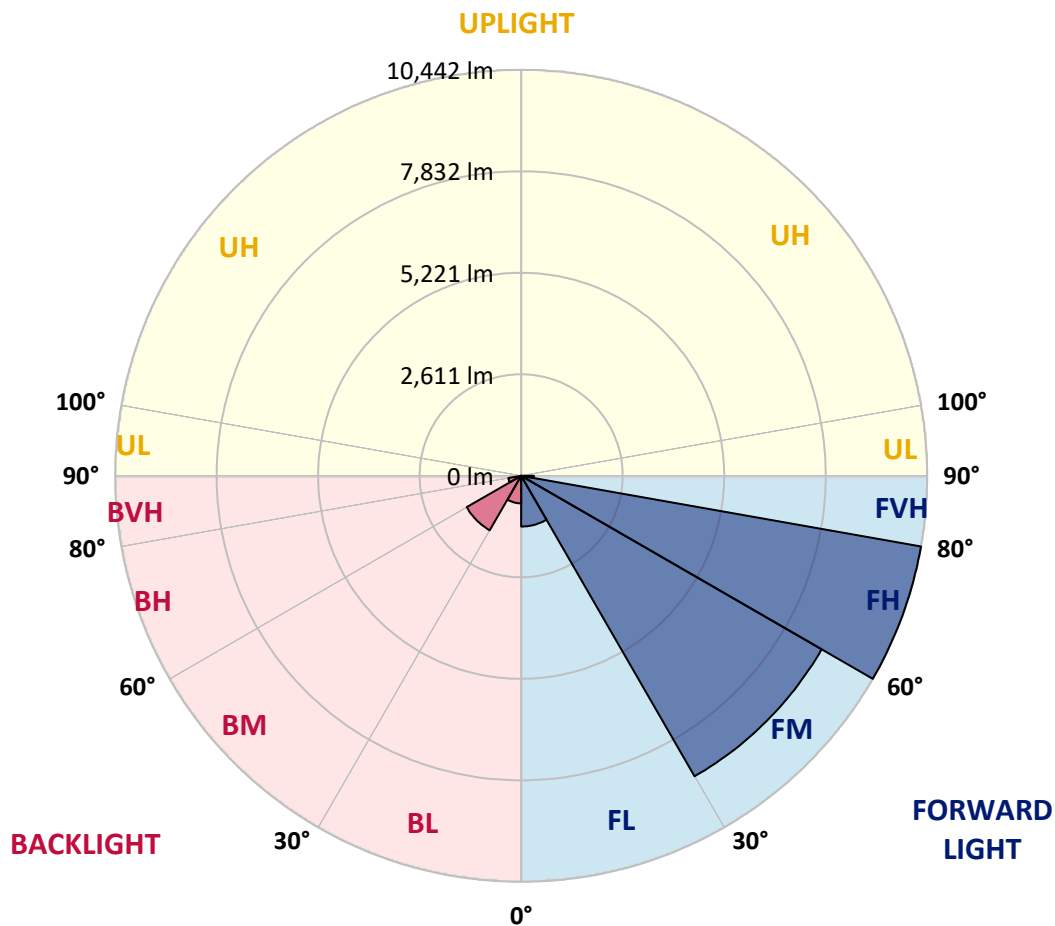
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1304.4  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 8922.9  | 37.7      |                         |      |          |
| FH   | (60°-80°)   | 10442.3 | 44.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 329.3   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 707.6   | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1616.7  | 6.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 334.2   | 1.4       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 4.5     | 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°    | 3429.4  | 3429.4  | 3429.4  | 3429.4  | 3429.4  | 3429.4  | 3429.4  | 3429.4  | 3429.4  | 3429.4  | 3429.4  |
| 2.5°  | 3276.8  | 3304.6  | 3309.8  | 3318.5  | 3318.5  | 3328.9  | 3346.2  | 3370.5  | 3410.3  | 3431.2  | 3445.0  |
| 5°    | 3020.2  | 3041.1  | 3067.1  | 3087.9  | 3127.7  | 3132.9  | 3200.6  | 3266.4  | 3358.3  | 3427.7  | 3476.2  |
| 7.5°  | 2761.9  | 2786.2  | 2820.9  | 2871.1  | 2923.2  | 2938.8  | 3041.1  | 3152.0  | 3297.6  | 3427.7  | 3509.2  |
| 10°   | 2579.9  | 2581.6  | 2612.8  | 2663.1  | 2746.3  | 2765.4  | 2890.2  | 3048.0  | 3230.0  | 3406.9  | 3540.4  |
| 12.5° | 2477.6  | 2489.7  | 2503.6  | 2541.7  | 2621.5  | 2633.6  | 2767.1  | 2952.6  | 3162.4  | 3394.7  | 3576.8  |
| 15°   | 2477.6  | 2486.2  | 2494.9  | 2514.0  | 2578.1  | 2588.5  | 2706.4  | 2891.9  | 3127.7  | 3399.9  | 3635.7  |
| 17.5° | 2503.6  | 2517.4  | 2510.5  | 2533.1  | 2600.7  | 2607.6  | 2711.6  | 2874.6  | 3126.0  | 3432.9  | 3725.9  |
| 20°   | 2566.0  | 2576.4  | 2562.5  | 2576.4  | 2644.0  | 2657.9  | 2765.4  | 2907.5  | 3155.5  | 3490.1  | 3838.6  |
| 22.5° | 2664.8  | 2670.0  | 2637.1  | 2647.5  | 2716.8  | 2734.2  | 2859.0  | 3001.2  | 3226.6  | 3582.0  | 3989.4  |
| 25°   | 2789.7  | 2800.1  | 2749.8  | 2761.9  | 2827.8  | 2848.6  | 2992.5  | 3141.6  | 3339.3  | 3708.6  | 4181.9  |
| 27.5° | 2933.6  | 2938.8  | 2895.4  | 2893.7  | 2978.6  | 3008.1  | 3153.7  | 3315.0  | 3490.1  | 3868.1  | 4424.6  |
| 30°   | 3098.3  | 3113.9  | 3072.3  | 3065.3  | 3172.8  | 3197.1  | 3341.0  | 3528.2  | 3712.0  | 4107.3  | 4769.6  |
| 32.5° | 3228.3  | 3240.4  | 3216.2  | 3233.5  | 3342.7  | 3361.8  | 3568.1  | 3829.9  | 4060.5  | 4447.1  | 5239.5  |
| 35°   | 3415.5  | 3422.5  | 3367.0  | 3398.2  | 3523.0  | 3571.6  | 3878.5  | 4253.0  | 4499.2  | 4873.7  | 5853.2  |
| 37.5° | 4093.5  | 4093.5  | 3857.7  | 3703.4  | 3823.0  | 3866.3  | 4303.2  | 4785.2  | 5040.1  | 5445.8  | 6626.5  |
| 40°   | 5031.4  | 5015.8  | 4670.8  | 4355.3  | 4339.7  | 4424.6  | 4908.3  | 5456.2  | 5738.8  | 6132.4  | 7496.9  |
| 42.5° | 6031.8  | 6007.5  | 5537.7  | 5225.6  | 5173.6  | 5203.1  | 5607.0  | 6283.2  | 6571.0  | 6969.8  | 8433.1  |
| 45°   | 6919.5  | 6912.6  | 6482.6  | 6063.0  | 5969.4  | 6063.0  | 6479.1  | 7250.7  | 7457.0  | 7876.6  | 9367.6  |
| 47.5° | 7663.3  | 7663.3  | 7349.5  | 7075.6  | 7027.0  | 7082.5  | 7659.8  | 8323.9  | 8304.8  | 8842.3  | 10277.8 |
| 50°   | 8519.8  | 8512.9  | 8214.7  | 8096.8  | 8147.0  | 8225.1  | 9019.1  | 9454.3  | 9182.1  | 9790.7  | 11091.0 |
| 52.5° | 9119.7  | 9161.3  | 9059.0  | 9039.9  | 9296.5  | 9431.8  | 10399.2 | 10560.5 | 9967.5  | 10690.5 | 11699.5 |
| 55°   | 9594.7  | 9643.3  | 9761.2  | 9894.7  | 10388.8 | 10565.7 | 11736.0 | 11609.4 | 10624.6 | 11470.7 | 12049.8 |
| 57.5° | 10267.4 | 10198.1 | 10380.1 | 10643.7 | 11442.9 | 11656.2 | 13031.1 | 12599.4 | 11153.4 | 12103.5 | 12087.9 |
| 60°   | 11084.1 | 11094.5 | 11125.7 | 11458.6 | 12495.4 | 12769.3 | 14307.2 | 13535.6 | 11493.2 | 12491.9 | 11664.9 |
| 62.5° | 12065.4 | 12081.0 | 12145.1 | 12656.6 | 13908.4 | 14166.7 | 15666.4 | 14302.0 | 11649.3 | 12382.7 | 10572.6 |
| 65°   | 11997.8 | 12063.6 | 12779.7 | 14529.1 | 16056.5 | 16311.4 | 17252.8 | 14839.4 | 11413.5 | 11384.0 | 8608.2  |
| 67.5° | 10929.8 | 11037.2 | 12235.3 | 16765.7 | 19295.2 | 19579.6 | 19170.4 | 14945.2 | 10395.7 | 8852.7  | 5615.7  |
| 70°   | 9528.9  | 9567.0  | 11007.8 | 18776.8 | 23045.4 | 23333.2 | 20886.8 | 13781.8 | 7888.7  | 4937.8  | 2515.7  |
| 72.5° | 7441.4  | 7450.1  | 9140.5  | 19243.2 | 25080.9 | 25096.5 | 19539.7 | 10231.0 | 4242.6  | 1896.8  | 873.8   |
| 75°   | 5315.8  | 5263.8  | 6122.0  | 15605.8 | 22065.8 | 22242.7 | 14648.7 | 4799.1  | 1621.1  | 896.4   | 435.2   |
| 77.5° | 2850.3  | 2907.5  | 3464.1  | 9254.9  | 15243.4 | 15545.1 | 7992.7  | 1383.6  | 825.3   | 610.3   | 287.8   |
| 80°   | 880.8   | 929.3   | 1420.0  | 4237.4  | 8634.2  | 8816.3  | 2963.0  | 615.5   | 575.6   | 435.2   | 189.0   |
| 82.5° | 277.4   | 287.8   | 662.3   | 1780.6  | 3583.7  | 3666.9  | 858.2   | 348.5   | 393.6   | 287.8   | 111.0   |
| 85°   | 79.8    | 81.5    | 294.7   | 664.0   | 886.0   | 903.3   | 241.0   | 135.2   | 225.4   | 178.6   | 57.2    |
| 87.5° | 8.7     | 27.7    | 111.0   | 111.0   | 78.0    | 76.3    | 26.0    | 29.5    | 64.1    | 22.5    | 10.4    |
| 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°    | 3429.4 | 3429.4 | 3429.4 | 3429.4 | 3429.4 | 3429.4 | 3429.4 | 3429.4 | 3429.4 | 3429.4 | 3429.4 |
| 2.5°  | 3436.4 | 3438.1 | 3415.5 | 3377.4 | 3335.8 | 3301.1 | 3257.8 | 3223.1 | 3198.8 | 3191.9 | 3204.0 |
| 5°    | 3460.6 | 3448.5 | 3384.3 | 3268.2 | 3129.5 | 3009.8 | 2876.3 | 2770.6 | 2701.2 | 2671.8 | 2682.2 |
| 7.5°  | 3497.0 | 3462.4 | 3321.9 | 3093.1 | 2827.8 | 2592.0 | 2352.7 | 2167.2 | 2049.3 | 1990.4 | 1999.0 |
| 10°   | 3528.2 | 3458.9 | 3217.9 | 2839.9 | 2434.2 | 2077.1 | 1754.6 | 1530.9 | 1406.1 | 1347.1 | 1348.9 |
| 12.5° | 3557.7 | 3457.2 | 3082.7 | 2540.0 | 1990.4 | 1553.5 | 1253.5 | 1142.6 | 1107.9 | 1095.7 | 1092.3 |
| 15°   | 3613.2 | 3462.4 | 2912.8 | 2196.7 | 1548.3 | 1173.8 | 1064.5 | 1062.8 | 1069.7 | 1066.3 | 1064.5 |
| 17.5° | 3689.5 | 3467.6 | 2720.3 | 1832.6 | 1194.6 | 1035.1 | 1029.9 | 1045.5 | 1055.9 | 1050.7 | 1048.9 |
| 20°   | 3788.3 | 3488.4 | 2515.7 | 1472.0 | 1026.4 | 1000.4 | 1012.5 | 1026.4 | 1035.1 | 1026.4 | 1024.7 |
| 22.5° | 3927.0 | 3524.8 | 2292.1 | 1182.4 | 972.7  | 979.6  | 990.0  | 1005.6 | 1014.3 | 1002.1 | 1000.4 |
| 25°   | 4096.9 | 3582.0 | 2071.9 | 1028.1 | 946.6  | 955.3  | 970.9  | 988.3  | 998.7  | 986.5  | 984.8  |
| 27.5° | 4317.1 | 3673.9 | 1869.0 | 993.5  | 920.6  | 925.8  | 948.4  | 974.4  | 988.3  | 972.7  | 972.7  |
| 30°   | 4636.1 | 3824.7 | 1693.9 | 1009.1 | 905.0  | 892.9  | 924.1  | 960.5  | 976.1  | 962.2  | 960.5  |
| 32.5° | 5059.2 | 4038.0 | 1586.4 | 1033.3 | 898.1  | 854.8  | 884.2  | 931.0  | 957.0  | 948.4  | 948.4  |
| 35°   | 5614.0 | 4362.2 | 1544.8 | 1061.1 | 892.9  | 814.9  | 835.7  | 886.0  | 931.0  | 939.7  | 939.7  |
| 37.5° | 6286.7 | 4813.0 | 1556.9 | 1073.2 | 877.3  | 781.9  | 792.3  | 835.7  | 894.6  | 922.4  | 929.3  |
| 40°   | 7051.3 | 5338.3 | 1626.3 | 1061.1 | 860.0  | 754.2  | 755.9  | 788.9  | 840.9  | 882.5  | 896.4  |
| 42.5° | 7840.2 | 5952.1 | 1754.6 | 1016.0 | 844.4  | 729.9  | 724.7  | 747.3  | 781.9  | 811.4  | 823.5  |
| 45°   | 8590.9 | 6583.2 | 1881.2 | 953.6  | 825.3  | 705.6  | 693.5  | 702.2  | 709.1  | 721.3  | 728.2  |
| 47.5° | 9246.2 | 7027.0 | 1844.7 | 896.4  | 799.3  | 677.9  | 657.1  | 653.6  | 632.8  | 631.1  | 629.4  |
| 50°   | 9698.8 | 7124.1 | 1638.4 | 839.1  | 761.1  | 646.7  | 613.8  | 593.0  | 556.5  | 539.2  | 540.9  |
| 52.5° | 9842.7 | 6740.9 | 1338.5 | 781.9  | 698.7  | 605.1  | 558.3  | 525.3  | 480.3  | 464.7  | 462.9  |
| 55°   | 9652.0 | 5990.2 | 1069.7 | 712.6  | 612.0  | 549.6  | 497.6  | 454.3  | 417.8  | 398.8  | 398.8  |
| 57.5° | 9185.6 | 5034.9 | 846.1  | 631.1  | 520.1  | 487.2  | 435.2  | 391.8  | 360.6  | 341.6  | 338.1  |
| 60°   | 8412.3 | 3998.1 | 669.2  | 534.0  | 443.8  | 419.6  | 365.8  | 338.1  | 310.3  | 287.8  | 282.6  |
| 62.5° | 7238.5 | 2853.8 | 525.3  | 423.0  | 371.0  | 343.3  | 312.1  | 291.3  | 258.3  | 227.1  | 221.9  |
| 65°   | 5648.7 | 1745.9 | 405.7  | 310.3  | 298.2  | 284.3  | 265.3  | 246.2  | 206.3  | 175.1  | 169.9  |
| 67.5° | 3562.9 | 827.0  | 289.5  | 234.1  | 235.8  | 228.9  | 220.2  | 204.6  | 175.1  | 147.4  | 143.9  |
| 70°   | 1569.1 | 400.5  | 190.7  | 178.6  | 175.1  | 175.1  | 182.0  | 176.8  | 149.1  | 123.1  | 117.9  |
| 72.5° | 534.0  | 215.0  | 142.2  | 135.2  | 126.6  | 124.8  | 152.6  | 147.4  | 119.6  | 95.4   | 90.2   |
| 75°   | 279.1  | 143.9  | 104.0  | 97.1   | 76.3   | 91.9   | 121.4  | 114.4  | 85.0   | 62.4   | 57.2   |
| 77.5° | 182.0  | 102.3  | 71.1   | 62.4   | 43.3   | 60.7   | 90.2   | 79.8   | 50.3   | 31.2   | 27.7   |
| 80°   | 114.4  | 67.6   | 41.6   | 29.5   | 20.8   | 32.9   | 48.5   | 34.7   | 19.1   | 6.9    | 5.2    |
| 82.5° | 60.7   | 34.7   | 15.6   | 10.4   | 8.7    | 10.4   | 12.1   | 8.7    | 3.5    | 0.0    | 0.0    |
| 85°   | 24.3   | 12.1   | 5.2    | 3.5    | 1.7    | 0.0    | 3.5    | 1.7    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.7    | 1.7    | 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)