

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: P951979

Luminaire Tested: **GALN-SB6A-722-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P951979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6A-722-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17150 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
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

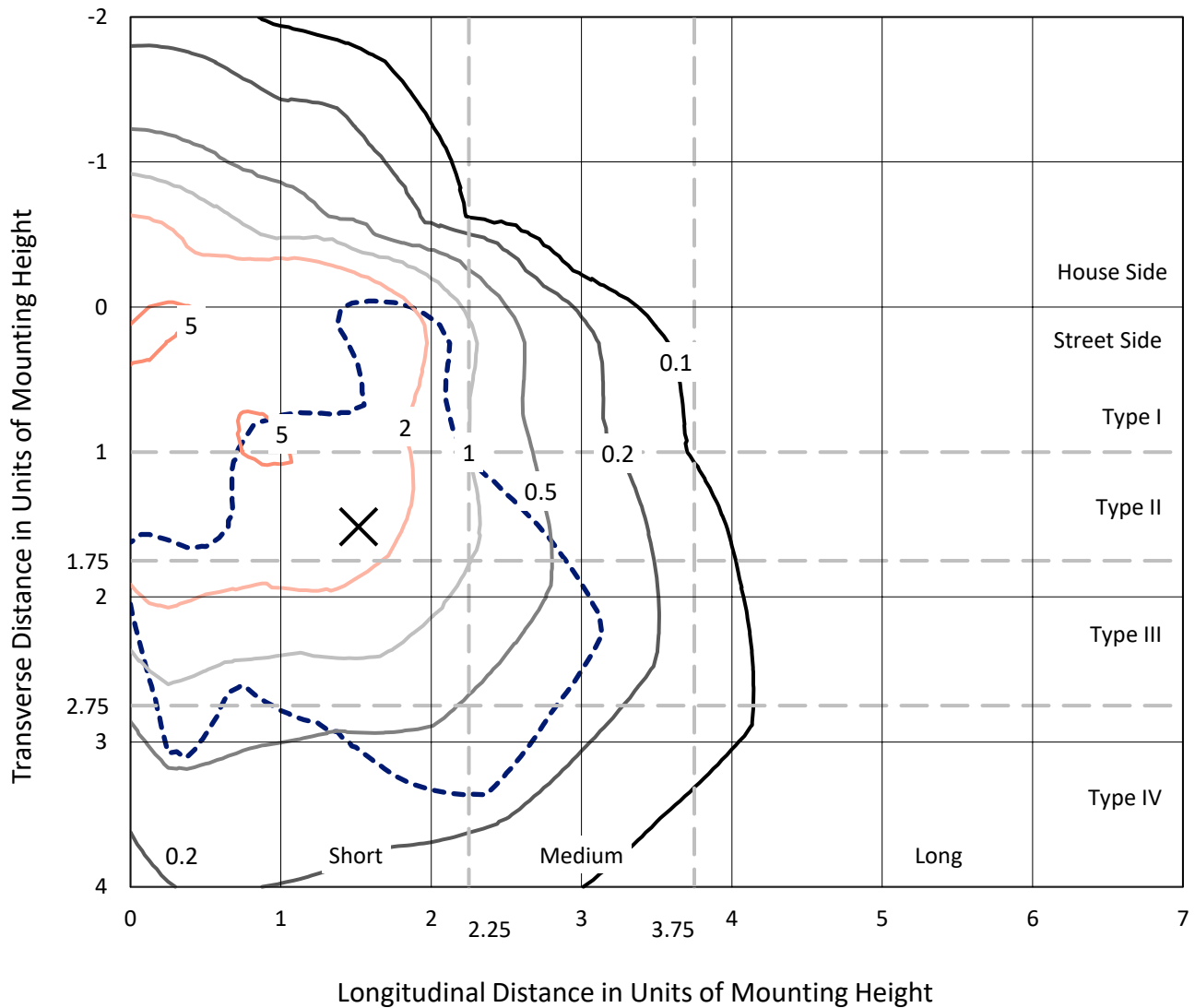


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## Iso-Footcandle Lines of Horizontal Illumination

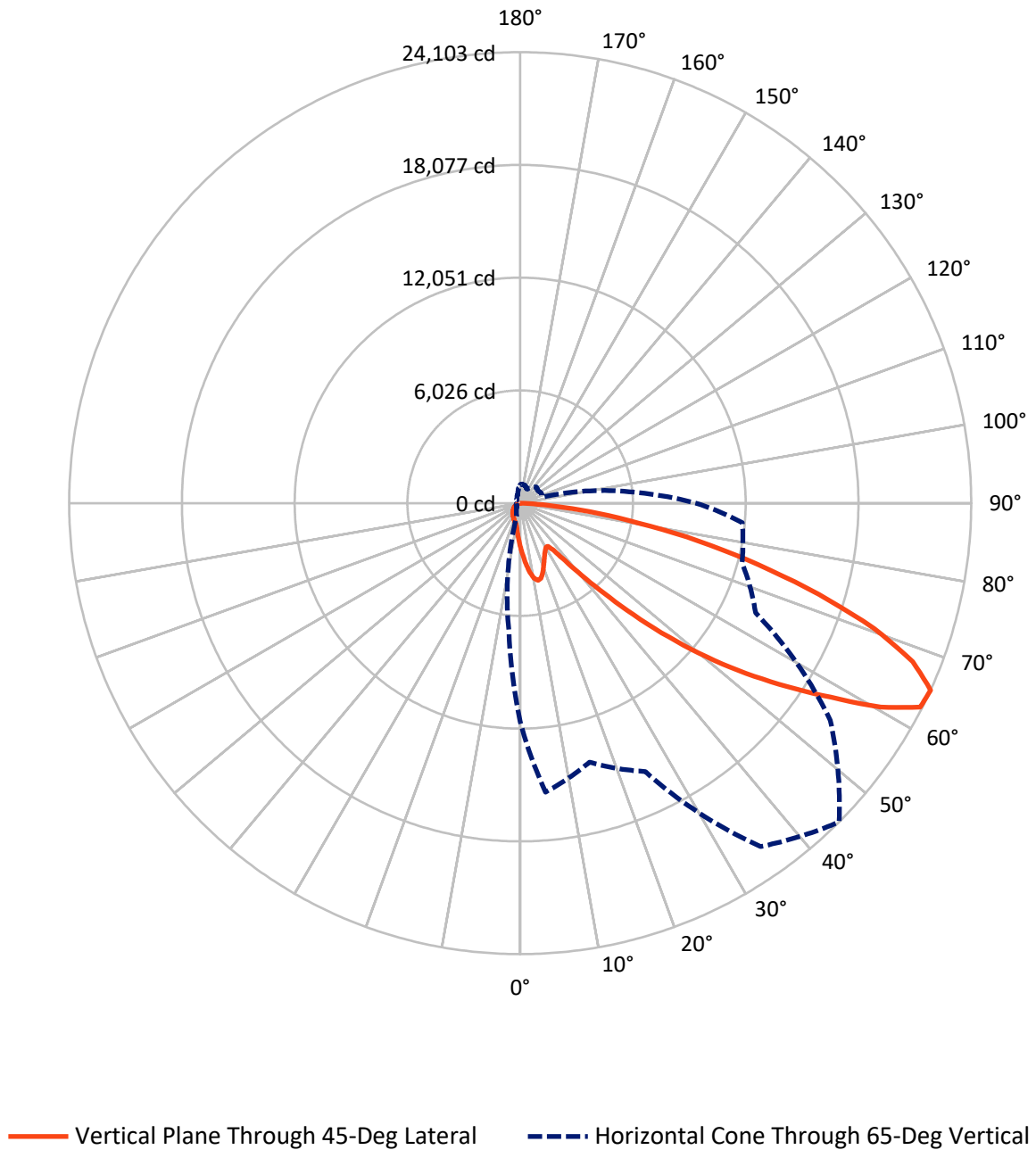
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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    | 3408.9   | 0.0    | 3408.9  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 13741.1  | 0.0    | 13741.1 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 17150.0  | 0.0    | 17150.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 233.8   | 1.4       |
| 10°-20°   | 700.9   | 4.1       |
| 20°-30°   | 1032.5  | 6.0       |
| 30°-40°   | 1326.5  | 7.7       |
| 40°-50°   | 2145.3  | 12.5      |
| 50°-60°   | 3762.1  | 21.9      |
| 60°-70°   | 4707.4  | 27.4      |
| 70°-80°   | 2750.8  | 16.0      |
| 80°-90°   | 490.8   | 2.9       |
| 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°    | 17150.0 | 100.0     |
| 0°-180°   | 17150.0 | 100.0     |

**Coefficient of Utilization**



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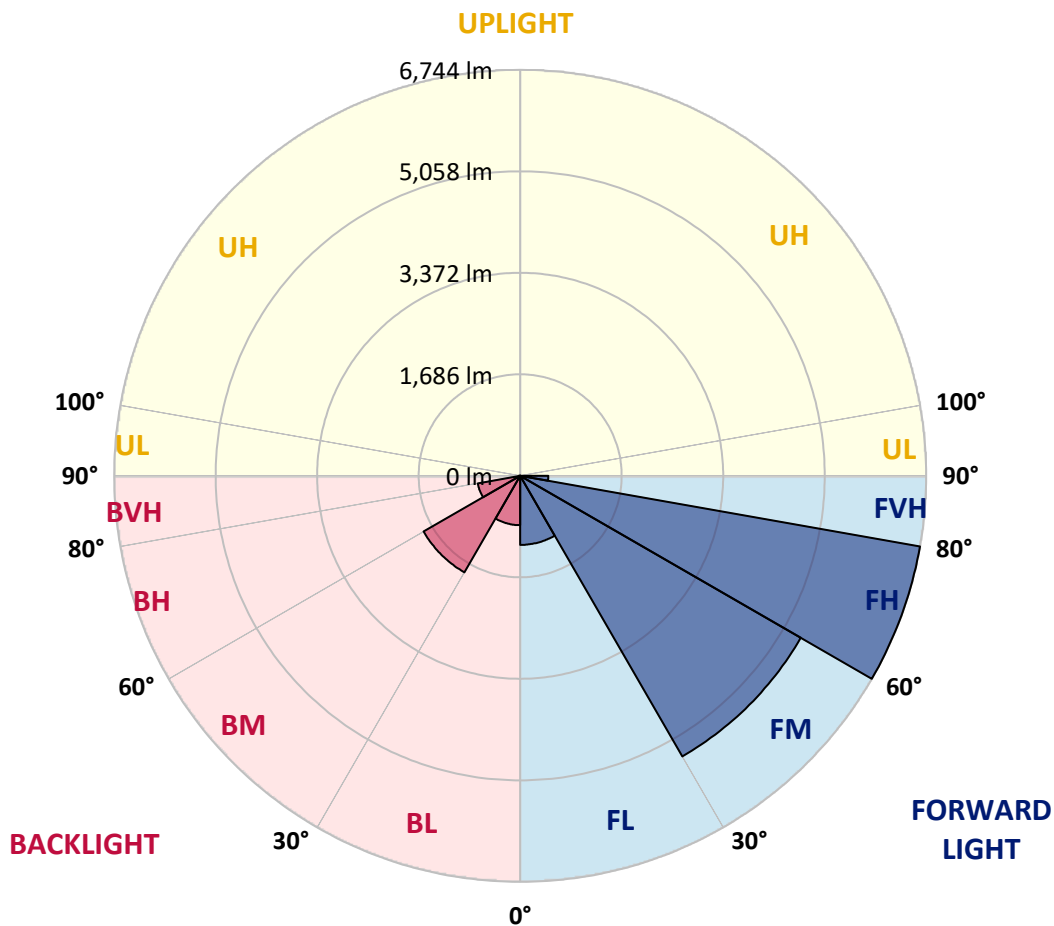
CATALOG NUMBER: GALN-SB6A-722-U-SLL-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1147.5 | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 5381.9 | 31.4      |                         |      |         |
| FH   | (60°-80°)   | 6743.9 | 39.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 467.8  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 819.6  | 4.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1852.0 | 10.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 714.2  | 4.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 23.0   | 0.1       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2374.7  | 2374.7  | 2374.7  | 2374.7  | 2374.7  | 2374.7  | 2374.7  | 2374.7  | 2374.7  | 2374.7  | 2374.7  |
| 2.5°  | 2660.6  | 2680.7  | 2725.6  | 2749.2  | 2785.9  | 2788.2  | 2788.2  | 2756.3  | 2755.2  | 2690.2  | 2683.1  |
| 5°    | 2973.7  | 3021.0  | 3127.3  | 3237.2  | 3260.8  | 3266.7  | 3254.9  | 3191.1  | 3143.9  | 3017.4  | 2990.3  |
| 7.5°  | 3284.4  | 3375.4  | 3537.3  | 3683.8  | 3731.0  | 3731.0  | 3702.7  | 3598.7  | 3501.8  | 3318.7  | 3250.2  |
| 10°   | 3542.0  | 3656.6  | 3876.4  | 4040.6  | 4094.9  | 4083.1  | 4025.2  | 3894.1  | 3760.6  | 3538.5  | 3448.7  |
| 12.5° | 3712.1  | 3840.9  | 4081.9  | 4214.3  | 4269.8  | 4239.1  | 4172.9  | 4045.3  | 3904.7  | 3670.8  | 3569.2  |
| 15°   | 3797.2  | 3931.9  | 4141.0  | 4210.7  | 4195.3  | 4163.5  | 4155.2  | 4093.7  | 3987.4  | 3768.8  | 3657.8  |
| 17.5° | 3833.8  | 3959.1  | 4104.4  | 4060.7  | 3930.7  | 3905.9  | 3988.6  | 4066.6  | 4040.6  | 3853.9  | 3749.9  |
| 20°   | 3868.1  | 3973.2  | 4016.9  | 3823.2  | 3596.4  | 3573.9  | 3732.2  | 3954.3  | 4067.8  | 3933.1  | 3837.4  |
| 22.5° | 3915.3  | 3980.3  | 3890.5  | 3572.7  | 3328.2  | 3276.2  | 3451.0  | 3785.4  | 4076.0  | 4033.5  | 3937.8  |
| 25°   | 3980.3  | 3998.0  | 3751.1  | 3335.2  | 3089.5  | 3037.5  | 3200.6  | 3597.5  | 4061.8  | 4142.2  | 4060.7  |
| 27.5° | 4058.3  | 4021.7  | 3617.6  | 3136.8  | 2899.3  | 2850.9  | 3013.9  | 3416.8  | 4021.7  | 4250.9  | 4193.0  |
| 30°   | 4159.9  | 4052.4  | 3485.3  | 2983.2  | 2763.4  | 2728.0  | 2885.1  | 3260.8  | 3972.1  | 4389.1  | 4357.2  |
| 32.5° | 4262.7  | 4065.4  | 3362.4  | 2893.4  | 2732.7  | 2745.7  | 2874.5  | 3176.9  | 3917.7  | 4521.4  | 4536.8  |
| 35°   | 4373.7  | 4106.7  | 3302.2  | 2982.0  | 2989.1  | 3102.5  | 3155.7  | 3254.9  | 3909.4  | 4701.0  | 4761.3  |
| 37.5° | 4525.0  | 4198.9  | 3374.2  | 3422.7  | 3668.4  | 3903.5  | 3859.8  | 3636.5  | 4005.1  | 4969.2  | 5081.4  |
| 40°   | 4742.4  | 4360.8  | 3688.5  | 4172.9  | 4677.4  | 5059.0  | 4892.4  | 4330.0  | 4298.1  | 5355.5  | 5523.3  |
| 42.5° | 5059.0  | 4618.3  | 4246.2  | 5089.7  | 5945.1  | 6573.6  | 6127.0  | 5224.4  | 4810.9  | 5907.3  | 6121.1  |
| 45°   | 5526.9  | 5035.4  | 4920.8  | 6057.3  | 7508.2  | 8498.2  | 7569.6  | 6177.8  | 5529.2  | 6742.6  | 6910.3  |
| 47.5° | 6175.5  | 5648.5  | 5552.8  | 7076.9  | 9407.9  | 10688.6 | 9169.3  | 7061.6  | 6346.8  | 7881.5  | 7920.5  |
| 50°   | 7036.8  | 6474.4  | 6151.8  | 8192.2  | 11490.8 | 12921.6 | 10767.8 | 7914.6  | 7283.7  | 9273.2  | 9228.4  |
| 52.5° | 8173.3  | 7626.3  | 6850.1  | 9254.3  | 13632.8 | 15107.3 | 12373.4 | 8663.6  | 8446.2  | 10888.3 | 10796.1 |
| 55°   | 9723.4  | 9359.5  | 7804.7  | 10268.0 | 15773.6 | 17306.0 | 13916.4 | 9370.1  | 9982.1  | 12807.0 | 12249.3 |
| 57.5° | 11646.8 | 11906.7 | 9181.1  | 11443.6 | 17698.2 | 19572.0 | 15466.4 | 10357.8 | 11976.4 | 14952.5 | 13092.9 |
| 60°   | 12887.3 | 15293.9 | 11816.9 | 13181.5 | 19885.1 | 22134.6 | 17590.7 | 12236.3 | 14072.3 | 15721.6 | 12932.2 |
| 62.5° | 12587.2 | 16371.4 | 14973.8 | 15400.3 | 21895.9 | 23997.7 | 19672.4 | 14123.1 | 14466.9 | 14588.6 | 11694.0 |
| 65°   | 11666.9 | 15501.9 | 14329.9 | 15831.5 | 22405.1 | 24102.9 | 20228.9 | 13879.7 | 12271.8 | 11910.3 | 9399.7  |
| 67.5° | 10400.4 | 14470.5 | 12799.9 | 14687.9 | 21484.8 | 22633.1 | 19192.8 | 12277.7 | 9483.5  | 8937.7  | 6819.4  |
| 70°   | 9033.4  | 13329.2 | 11795.7 | 13404.8 | 19730.3 | 20071.8 | 17431.2 | 10798.5 | 6975.3  | 6036.1  | 4376.1  |
| 72.5° | 7736.2  | 12140.6 | 11108.0 | 12089.8 | 17389.8 | 16683.3 | 15138.0 | 9490.6  | 5079.1  | 4353.7  | 3110.8  |
| 75°   | 6409.4  | 10387.4 | 10128.6 | 10528.0 | 14312.2 | 13141.3 | 12577.8 | 7857.9  | 3986.2  | 3149.8  | 2146.7  |
| 77.5° | 4945.6  | 8116.6  | 8712.1  | 8430.9  | 10074.3 | 9761.2  | 9749.4  | 5904.9  | 2912.3  | 2101.8  | 1345.7  |
| 80°   | 3384.9  | 5656.8  | 6806.4  | 5947.4  | 6538.2  | 6378.7  | 7342.7  | 3961.4  | 2112.4  | 1265.3  | 749.0   |
| 82.5° | 1989.6  | 3443.9  | 4737.6  | 2879.2  | 3615.3  | 3711.0  | 4372.6  | 1927.0  | 1242.9  | 291.8   | 163.0   |
| 85°   | 806.9   | 1359.9  | 1852.5  | 1127.1  | 1743.8  | 1470.9  | 1659.9  | 541.1   | 346.2   | 7.1     | 0.0     |
| 87.5° | 203.2   | 434.8   | 304.8   | 126.4   | 202.0   | 185.5   | 146.5   | 66.2    | 14.2    | 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     |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2374.7  | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 |
| 2.5°  | 2637.0  | 2609.8 | 2542.5 | 2475.1 | 2420.8 | 2347.6 | 2299.1 | 2241.2 | 2185.7 | 2136.1 | 2126.6 |
| 5°    | 2915.8  | 2826.0 | 2703.2 | 2590.9 | 2476.3 | 2365.3 | 2255.4 | 2139.6 | 2033.3 | 1968.3 | 1927.0 |
| 7.5°  | 3142.7  | 2984.4 | 2821.3 | 2678.4 | 2540.1 | 2410.2 | 2264.9 | 2124.3 | 1957.7 | 1869.1 | 1788.7 |
| 10°   | 3311.6  | 3103.7 | 2889.8 | 2725.6 | 2586.2 | 2459.8 | 2336.9 | 2195.1 | 1994.3 | 1883.2 | 1762.7 |
| 12.5° | 3422.7  | 3175.8 | 2925.3 | 2737.4 | 2581.5 | 2483.4 | 2429.1 | 2373.5 | 2173.9 | 2043.9 | 1869.1 |
| 15°   | 3499.5  | 3226.6 | 2950.1 | 2710.3 | 2518.9 | 2446.8 | 2501.1 | 2564.9 | 2437.3 | 2287.3 | 2059.3 |
| 17.5° | 3583.4  | 3292.7 | 2960.7 | 2637.0 | 2397.2 | 2366.5 | 2507.0 | 2654.7 | 2648.8 | 2500.0 | 2276.7 |
| 20°   | 3672.0  | 3350.6 | 2953.6 | 2518.9 | 2249.5 | 2276.7 | 2456.2 | 2627.6 | 2699.6 | 2619.3 | 2420.8 |
| 22.5° | 3762.9  | 3406.1 | 2926.5 | 2365.3 | 2111.3 | 2196.3 | 2375.9 | 2526.0 | 2611.0 | 2586.2 | 2435.0 |
| 25°   | 3877.5  | 3484.1 | 2886.3 | 2199.9 | 1996.7 | 2114.8 | 2282.6 | 2404.3 | 2463.3 | 2462.2 | 2358.2 |
| 27.5° | 4014.6  | 3588.1 | 2865.0 | 2066.4 | 1915.1 | 2022.7 | 2171.5 | 2280.2 | 2321.6 | 2321.6 | 2238.9 |
| 30°   | 4174.1  | 3711.0 | 2841.4 | 1978.9 | 1867.9 | 1927.0 | 2042.7 | 2149.1 | 2190.4 | 2190.4 | 2120.7 |
| 32.5° | 4351.3  | 3829.1 | 2784.7 | 1925.8 | 1832.4 | 1833.6 | 1906.9 | 2003.7 | 2053.4 | 2060.5 | 2010.8 |
| 35°   | 4564.0  | 3955.5 | 2660.6 | 1883.2 | 1791.1 | 1742.6 | 1778.1 | 1858.4 | 1917.5 | 1932.9 | 1902.1 |
| 37.5° | 4842.8  | 4110.3 | 2483.4 | 1820.6 | 1727.3 | 1646.9 | 1655.2 | 1716.7 | 1781.6 | 1805.3 | 1785.2 |
| 40°   | 5217.3  | 4292.2 | 2299.1 | 1730.8 | 1637.5 | 1541.8 | 1538.3 | 1583.2 | 1646.9 | 1672.9 | 1662.3 |
| 42.5° | 5712.3  | 4510.8 | 2123.1 | 1644.6 | 1528.8 | 1430.7 | 1424.8 | 1460.3 | 1515.8 | 1543.0 | 1538.3 |
| 45°   | 6345.6  | 4779.0 | 1971.8 | 1577.2 | 1422.5 | 1325.6 | 1323.2 | 1352.8 | 1401.2 | 1429.6 | 1423.7 |
| 47.5° | 7225.8  | 5047.2 | 1869.1 | 1541.8 | 1338.6 | 1239.3 | 1244.1 | 1270.1 | 1313.8 | 1333.9 | 1325.6 |
| 50°   | 8373.0  | 5128.7 | 1817.1 | 1541.8 | 1293.7 | 1162.6 | 1186.2 | 1207.4 | 1240.5 | 1252.3 | 1241.7 |
| 52.5° | 9474.1  | 4859.3 | 1769.8 | 1551.3 | 1299.6 | 1097.6 | 1148.4 | 1163.7 | 1192.1 | 1196.8 | 1181.5 |
| 55°   | 10014.0 | 4177.6 | 1704.8 | 1553.6 | 1336.2 | 1042.0 | 1117.7 | 1146.0 | 1156.6 | 1155.5 | 1129.5 |
| 57.5° | 9828.5  | 3377.8 | 1595.0 | 1544.2 | 1361.0 | 1006.6 | 1079.9 | 1134.2 | 1141.3 | 1130.7 | 1082.2 |
| 60°   | 9177.5  | 2487.0 | 1511.1 | 1474.5 | 1351.6 | 996.0  | 1022.0 | 1108.2 | 1118.8 | 1104.7 | 1025.5 |
| 62.5° | 8085.9  | 1726.1 | 1446.1 | 1320.9 | 1310.2 | 992.4  | 931.0  | 1051.5 | 1077.5 | 1057.4 | 941.6  |
| 65°   | 6365.7  | 1219.3 | 1245.3 | 1157.8 | 1220.4 | 973.5  | 836.5  | 983.0  | 1018.4 | 987.7  | 824.7  |
| 67.5° | 4307.6  | 880.2  | 1009.0 | 1049.1 | 1075.1 | 931.0  | 767.9  | 905.0  | 952.3  | 912.1  | 688.8  |
| 70°   | 2326.3  | 617.9  | 666.3  | 883.7  | 913.3  | 857.7  | 706.5  | 825.8  | 880.2  | 836.5  | 561.2  |
| 72.5° | 1374.0  | 444.2  | 466.7  | 710.1  | 760.9  | 755.0  | 638.0  | 733.7  | 799.8  | 747.9  | 456.0  |
| 75°   | 757.3   | 300.1  | 333.2  | 515.1  | 617.9  | 582.5  | 548.2  | 621.4  | 688.8  | 638.0  | 352.1  |
| 77.5° | 339.1   | 179.6  | 231.6  | 337.9  | 485.6  | 399.3  | 424.1  | 484.4  | 547.0  | 493.8  | 235.1  |
| 80°   | 131.1   | 100.4  | 153.6  | 184.3  | 353.3  | 220.9  | 272.9  | 356.8  | 401.7  | 359.2  | 143.0  |
| 82.5° | 16.5    | 44.9   | 66.2   | 72.1   | 205.6  | 117.0  | 158.3  | 224.5  | 220.9  | 191.4  | 72.1   |
| 85°   | 0.0     | 8.3    | 9.5    | 4.7    | 88.6   | 42.5   | 52.0   | 73.3   | 68.5   | 52.0   | 5.9    |
| 87.5° | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.4    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 |
| 2.5°  | 2068.7 | 2026.2 | 2004.9 | 1987.2 | 2003.7 | 2013.2 | 2013.2 | 2053.4 | 2077.0 | 2086.5 | 2152.6 |
| 5°    | 1823.0 | 1743.8 | 1690.7 | 1658.8 | 1669.4 | 1681.2 | 1694.2 | 1745.0 | 1779.3 | 1801.7 | 1904.5 |
| 7.5°  | 1629.2 | 1508.7 | 1434.3 | 1395.3 | 1401.2 | 1409.5 | 1420.1 | 1469.7 | 1504.0 | 1533.5 | 1648.1 |
| 10°   | 1533.5 | 1363.4 | 1265.3 | 1218.1 | 1209.8 | 1205.1 | 1201.5 | 1231.1 | 1257.1 | 1280.7 | 1394.1 |
| 12.5° | 1538.3 | 1300.8 | 1181.5 | 1123.6 | 1098.8 | 1070.4 | 1048.0 | 1052.7 | 1069.2 | 1098.8 | 1170.8 |
| 15°   | 1598.5 | 1280.7 | 1137.7 | 1065.7 | 1024.3 | 991.2  | 964.1  | 958.2  | 964.1  | 968.8  | 1013.7 |
| 17.5° | 1680.0 | 1278.3 | 1099.9 | 1010.1 | 967.6  | 940.4  | 915.6  | 907.4  | 908.5  | 914.4  | 926.3  |
| 20°   | 1745.0 | 1271.2 | 1057.4 | 957.0  | 919.2  | 895.5  | 870.7  | 862.5  | 864.8  | 866.0  | 879.0  |
| 22.5° | 1779.3 | 1260.6 | 1010.1 | 903.8  | 871.9  | 848.3  | 825.8  | 824.7  | 824.7  | 831.7  | 841.2  |
| 25°   | 1779.3 | 1238.2 | 967.6  | 853.0  | 824.7  | 803.4  | 776.2  | 780.9  | 783.3  | 792.8  | 806.9  |
| 27.5° | 1736.7 | 1195.6 | 933.4  | 809.3  | 779.8  | 758.5  | 733.7  | 739.6  | 743.1  | 753.8  | 771.5  |
| 30°   | 1682.4 | 1144.8 | 894.4  | 767.9  | 733.7  | 718.3  | 697.1  | 699.4  | 704.1  | 716.0  | 736.0  |
| 32.5° | 1624.5 | 1084.6 | 862.5  | 726.6  | 692.3  | 680.5  | 656.9  | 660.4  | 665.2  | 678.2  | 700.6  |
| 35°   | 1560.7 | 1013.7 | 824.7  | 688.8  | 654.5  | 645.1  | 617.9  | 620.3  | 627.4  | 641.5  | 664.0  |
| 37.5° | 1493.4 | 955.8  | 786.8  | 652.2  | 616.7  | 607.3  | 578.9  | 581.3  | 589.5  | 606.1  | 627.4  |
| 40°   | 1427.2 | 899.1  | 746.7  | 613.2  | 577.7  | 569.5  | 538.7  | 541.1  | 550.6  | 568.3  | 590.7  |
| 42.5° | 1355.1 | 855.4  | 694.7  | 573.0  | 535.2  | 526.9  | 498.6  | 502.1  | 512.8  | 530.5  | 552.9  |
| 45°   | 1268.9 | 827.0  | 636.8  | 535.2  | 492.7  | 484.4  | 458.4  | 465.5  | 477.3  | 495.0  | 518.7  |
| 47.5° | 1180.3 | 815.2  | 588.4  | 495.0  | 449.0  | 441.9  | 420.6  | 432.4  | 445.4  | 459.6  | 485.6  |
| 50°   | 1095.2 | 799.8  | 538.7  | 457.2  | 411.1  | 404.1  | 389.9  | 405.2  | 418.2  | 431.2  | 456.0  |
| 52.5° | 998.3  | 766.8  | 493.8  | 424.1  | 379.2  | 376.9  | 369.8  | 384.0  | 395.8  | 407.6  | 428.9  |
| 55°   | 897.9  | 713.6  | 454.9  | 394.6  | 352.1  | 354.4  | 350.9  | 362.7  | 372.2  | 382.8  | 401.7  |
| 57.5° | 810.5  | 646.3  | 424.1  | 362.7  | 328.4  | 335.5  | 330.8  | 336.7  | 342.6  | 355.6  | 371.0  |
| 60°   | 721.9  | 565.9  | 389.9  | 324.9  | 304.8  | 313.1  | 300.1  | 298.9  | 301.3  | 304.8  | 333.2  |
| 62.5° | 602.5  | 482.0  | 347.3  | 291.8  | 278.8  | 282.4  | 257.6  | 238.7  | 238.7  | 242.2  | 284.7  |
| 65°   | 484.4  | 404.1  | 300.1  | 254.0  | 243.4  | 241.0  | 205.6  | 179.6  | 177.2  | 187.9  | 224.5  |
| 67.5° | 398.2  | 335.5  | 252.8  | 211.5  | 204.4  | 206.8  | 180.8  | 154.8  | 152.4  | 164.2  | 191.4  |
| 70°   | 329.6  | 270.6  | 202.0  | 163.0  | 170.1  | 180.8  | 154.8  | 130.0  | 126.4  | 137.0  | 163.0  |
| 72.5° | 262.3  | 211.5  | 154.8  | 120.5  | 140.6  | 153.6  | 126.4  | 102.8  | 100.4  | 109.9  | 134.7  |
| 75°   | 192.6  | 151.2  | 105.1  | 87.4   | 108.7  | 120.5  | 92.2   | 73.3   | 69.7   | 78.0   | 102.8  |
| 77.5° | 119.3  | 85.1   | 66.2   | 52.0   | 74.4   | 80.3   | 48.4   | 42.5   | 41.4   | 47.3   | 65.0   |
| 80°   | 55.5   | 36.6   | 31.9   | 17.7   | 27.2   | 31.9   | 20.1   | 22.4   | 23.6   | 28.4   | 40.2   |
| 82.5° | 15.4   | 5.9    | 1.2    | 0.0    | 0.0    | 9.5    | 4.7    | 9.5    | 11.8   | 17.7   | 26.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.4    | 5.9    | 10.6   | 18.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.7    | 9.5    |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7 | 2374.7  |
| 2.5°  | 2202.2 | 2249.5 | 2325.1 | 2403.1 | 2479.9 | 2557.9 | 2633.5 | 2660.6  |
| 5°    | 1997.8 | 2106.5 | 2256.6 | 2417.3 | 2582.7 | 2750.4 | 2904.0 | 2973.7  |
| 7.5°  | 1769.8 | 1925.8 | 2151.4 | 2403.1 | 2666.5 | 2930.0 | 3172.2 | 3284.4  |
| 10°   | 1526.4 | 1723.7 | 1981.3 | 2321.6 | 2699.6 | 3063.5 | 3396.7 | 3542.0  |
| 12.5° | 1294.9 | 1501.6 | 1786.4 | 2194.0 | 2673.6 | 3140.3 | 3540.8 | 3712.1  |
| 15°   | 1101.1 | 1284.2 | 1591.4 | 2042.7 | 2589.8 | 3145.0 | 3609.3 | 3797.2  |
| 17.5° | 955.8  | 1075.1 | 1392.9 | 1875.0 | 2479.9 | 3101.3 | 3633.0 | 3833.8  |
| 20°   | 883.7  | 916.8  | 1135.4 | 1659.9 | 2377.1 | 3060.0 | 3656.6 | 3868.1  |
| 22.5° | 841.2  | 849.5  | 928.6  | 1382.3 | 2254.2 | 3047.0 | 3698.0 | 3915.3  |
| 25°   | 806.9  | 809.3  | 830.6  | 1095.2 | 2066.4 | 3038.7 | 3761.8 | 3980.3  |
| 27.5° | 772.7  | 772.7  | 784.5  | 882.5  | 1811.2 | 3003.3 | 3844.5 | 4058.3  |
| 30°   | 738.4  | 738.4  | 746.7  | 780.9  | 1512.3 | 2933.6 | 3943.7 | 4159.9  |
| 32.5° | 703.0  | 703.0  | 710.1  | 734.9  | 1207.4 | 2846.1 | 4034.7 | 4262.7  |
| 35°   | 667.5  | 665.2  | 674.6  | 700.6  | 960.5  | 2735.1 | 4125.6 | 4373.7  |
| 37.5° | 629.7  | 628.5  | 638.0  | 667.5  | 829.4  | 2606.3 | 4194.2 | 4525.0  |
| 40°   | 589.5  | 589.5  | 600.2  | 632.1  | 791.6  | 2444.4 | 4302.9 | 4742.4  |
| 42.5° | 552.9  | 550.6  | 562.4  | 601.4  | 763.2  | 2289.7 | 4497.8 | 5059.0  |
| 45°   | 517.5  | 512.8  | 523.4  | 571.8  | 713.6  | 2235.3 | 4861.7 | 5526.9  |
| 47.5° | 484.4  | 472.6  | 482.0  | 536.4  | 668.7  | 2438.5 | 5457.1 | 6175.5  |
| 50°   | 457.2  | 434.8  | 443.0  | 500.9  | 634.4  | 2879.2 | 6229.8 | 7036.8  |
| 52.5° | 428.9  | 399.3  | 404.1  | 457.2  | 603.7  | 3298.6 | 7067.5 | 8173.3  |
| 55°   | 399.3  | 366.3  | 368.6  | 413.5  | 560.0  | 3361.2 | 7885.0 | 9723.4  |
| 57.5° | 366.3  | 335.5  | 335.5  | 373.3  | 528.1  | 2913.5 | 8513.6 | 11646.8 |
| 60°   | 329.6  | 309.5  | 303.6  | 341.4  | 556.5  | 2055.7 | 8586.8 | 12887.3 |
| 62.5° | 289.5  | 278.8  | 270.6  | 310.7  | 577.7  | 1218.1 | 7997.3 | 12587.2 |
| 65°   | 243.4  | 241.0  | 235.1  | 341.4  | 486.8  | 719.5  | 6865.4 | 11666.9 |
| 67.5° | 204.4  | 200.8  | 200.8  | 358.0  | 369.8  | 452.5  | 5363.8 | 10400.4 |
| 70°   | 176.0  | 163.0  | 163.0  | 270.6  | 224.5  | 313.1  | 3745.2 | 9033.4  |
| 72.5° | 147.7  | 133.5  | 124.1  | 216.2  | 167.8  | 229.2  | 2340.5 | 7736.2  |
| 75°   | 118.1  | 107.5  | 95.7   | 143.0  | 125.2  | 173.7  | 1359.9 | 6409.4  |
| 77.5° | 85.1   | 80.3   | 67.3   | 105.1  | 91.0   | 125.2  | 809.3  | 4945.6  |
| 80°   | 43.7   | 44.9   | 42.5   | 60.3   | 61.4   | 85.1   | 460.8  | 3384.9  |
| 82.5° | 26.0   | 20.1   | 22.4   | 29.5   | 35.4   | 48.4   | 173.7  | 1989.6  |
| 85°   | 16.5   | 10.6   | 10.6   | 14.2   | 17.7   | 18.9   | 53.2   | 806.9   |
| 87.5° | 8.3    | 3.5    | 4.7    | 7.1    | 5.9    | 4.7    | 2.4    | 203.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

(END OF REPORT)