

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: P951664

Luminaire Tested: **GALN-SB5D-730-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P951664  
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-SB5D-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 900mA 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: 39231 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
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



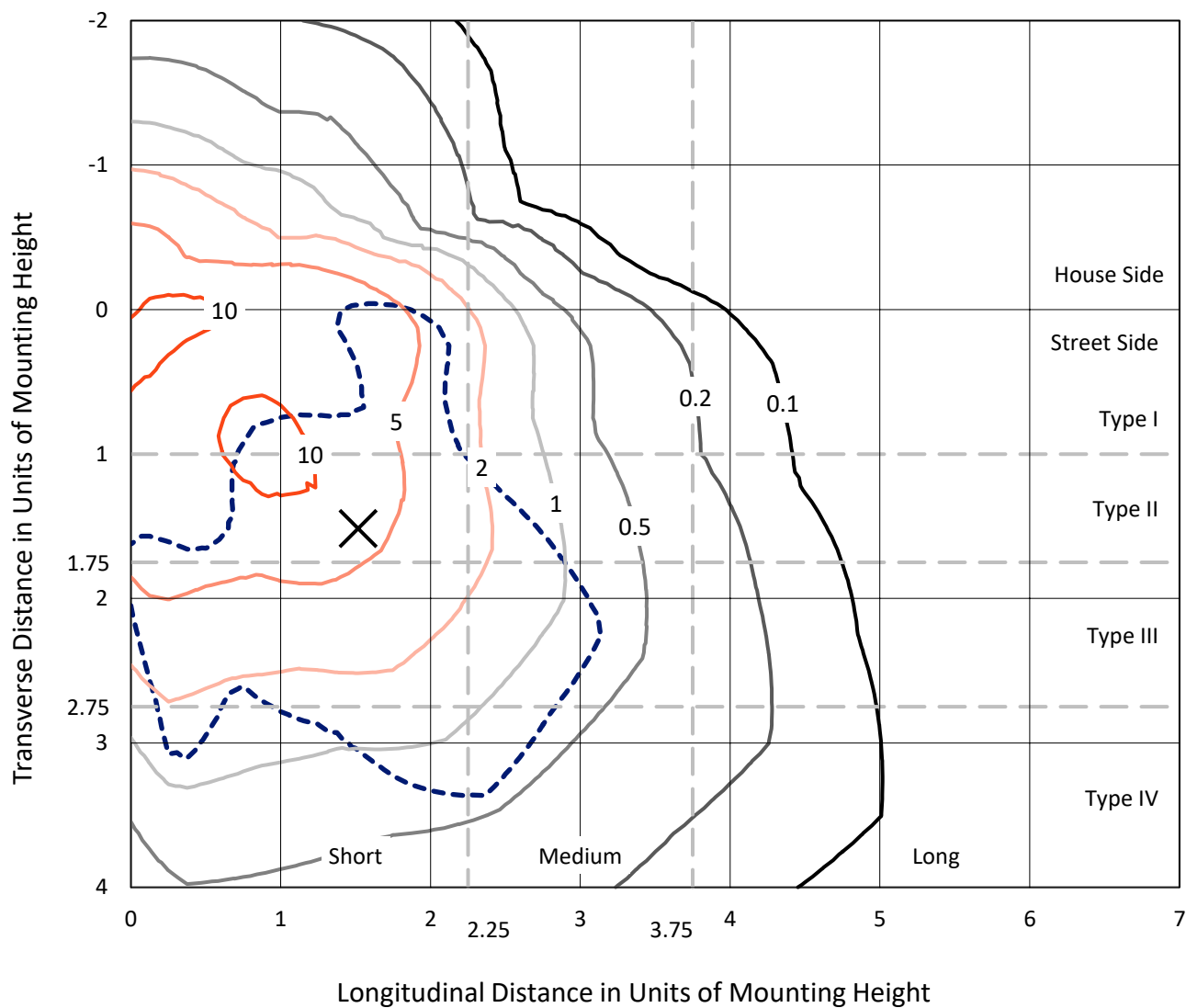
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

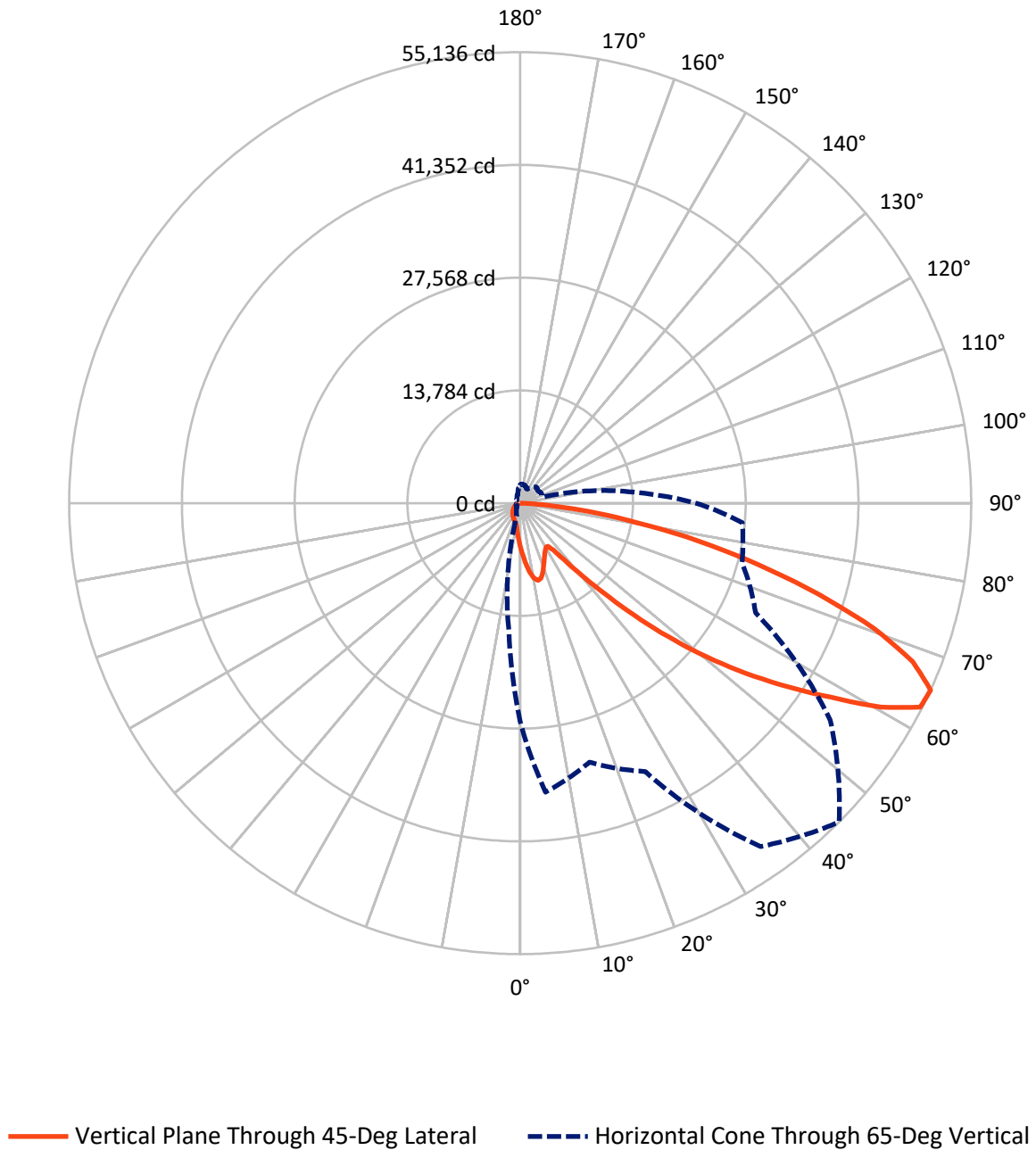


Based on 25 foot mounting height. Maximum calculated value = 14.3 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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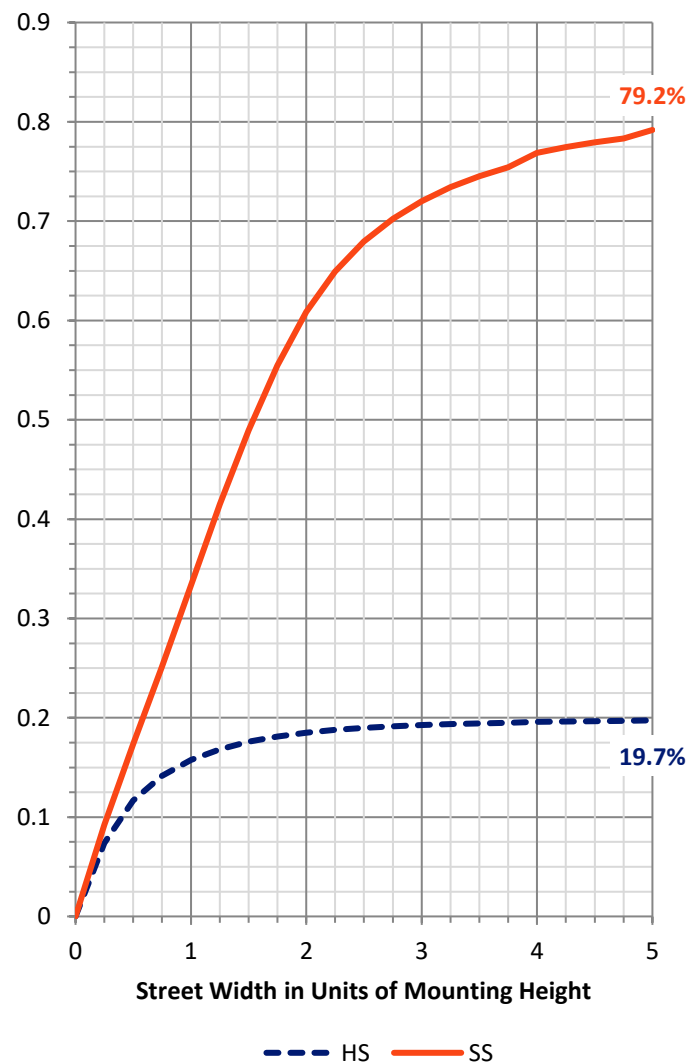
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7797.9   | 0.0    | 7797.9  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 31433.1  | 0.0    | 31433.1 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 39231.0  | 0.0    | 39231.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 534.8   | 1.4       |
| 10°-20°   | 1603.2  | 4.1       |
| 20°-30°   | 2361.9  | 6.0       |
| 30°-40°   | 3034.4  | 7.7       |
| 40°-50°   | 4907.5  | 12.5      |
| 50°-60°   | 8605.8  | 21.9      |
| 60°-70°   | 10768.2 | 27.4      |
| 70°-80°   | 6292.4  | 16.0      |
| 80°-90°   | 1122.7  | 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°    | 39231.0 | 100.0     |
| 0°-180°   | 39231.0 | 100.0     |

**Coefficient of Utilization**



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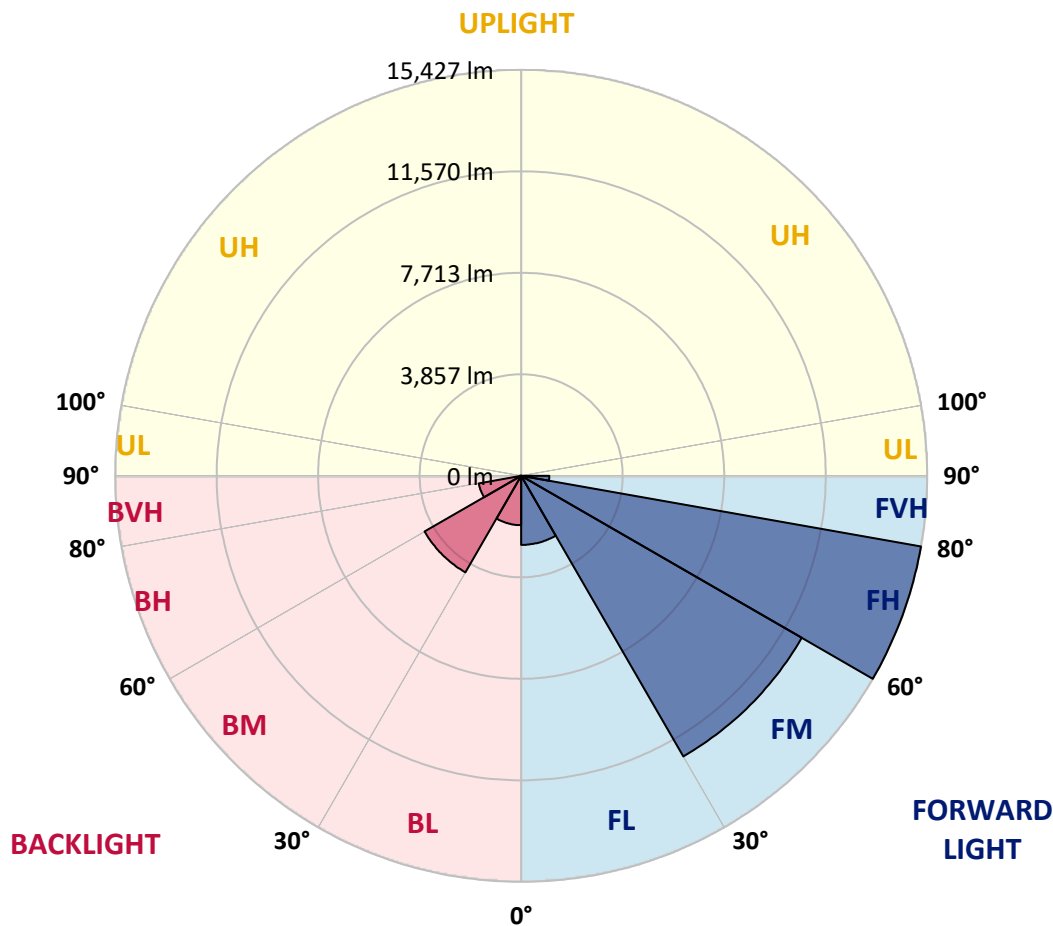
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2625.0  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 12311.2 | 31.4      |                         |      |         |
| FH   | (60°-80°)   | 15426.8 | 39.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1070.1  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 1874.9  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4236.6  | 10.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1633.8  | 4.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 52.6    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5432.2  | 5432.2  | 5432.2  | 5432.2  | 5432.2  | 5432.2  | 5432.2  | 5432.2  | 5432.2  | 5432.2  | 5432.2  |
| 2.5°  | 6086.3  | 6132.2  | 6234.9  | 6289.0  | 6372.7  | 6378.2  | 6378.2  | 6305.2  | 6302.5  | 6153.8  | 6137.6  |
| 5°    | 6802.5  | 6910.6  | 7153.8  | 7405.1  | 7459.2  | 7472.7  | 7445.7  | 7299.7  | 7191.6  | 6902.5  | 6840.3  |
| 7.5°  | 7513.2  | 7721.3  | 8091.6  | 8426.7  | 8534.8  | 8534.8  | 8470.0  | 8232.1  | 8010.5  | 7591.6  | 7434.9  |
| 10°   | 8102.4  | 8364.6  | 8867.3  | 9242.9  | 9367.2  | 9340.2  | 9207.8  | 8907.8  | 8602.4  | 8094.3  | 7888.9  |
| 12.5° | 8491.6  | 8786.2  | 9337.5  | 9640.2  | 9767.2  | 9697.0  | 9545.6  | 9253.7  | 8932.1  | 8397.0  | 8164.6  |
| 15°   | 8686.2  | 8994.3  | 9472.6  | 9632.1  | 9597.0  | 9524.0  | 9505.1  | 9364.5  | 9121.3  | 8621.3  | 8367.3  |
| 17.5° | 8770.0  | 9056.4  | 9388.9  | 9288.9  | 8991.6  | 8934.8  | 9124.0  | 9302.4  | 9242.9  | 8815.9  | 8578.1  |
| 20°   | 8848.3  | 9088.9  | 9188.9  | 8745.6  | 8226.7  | 8175.4  | 8537.5  | 9045.6  | 9305.1  | 8997.0  | 8778.1  |
| 22.5° | 8956.4  | 9105.1  | 8899.7  | 8172.7  | 7613.2  | 7494.3  | 7894.3  | 8659.1  | 9324.0  | 9226.7  | 9007.8  |
| 25°   | 9105.1  | 9145.6  | 8580.8  | 7629.5  | 7067.3  | 6948.4  | 7321.4  | 8229.4  | 9291.6  | 9475.3  | 9288.9  |
| 27.5° | 9283.5  | 9199.7  | 8275.4  | 7175.4  | 6632.2  | 6521.4  | 6894.3  | 7815.9  | 9199.7  | 9724.0  | 9591.5  |
| 30°   | 9515.9  | 9269.9  | 7972.7  | 6824.1  | 6321.4  | 6240.3  | 6599.8  | 7459.2  | 9086.2  | 10040.2 | 9967.2  |
| 32.5° | 9751.0  | 9299.7  | 7691.6  | 6618.7  | 6251.1  | 6280.9  | 6575.4  | 7267.3  | 8961.8  | 10342.9 | 10378.0 |
| 35°   | 10005.0 | 9394.3  | 7553.8  | 6821.4  | 6837.6  | 7097.0  | 7218.7  | 7445.7  | 8942.9  | 10753.7 | 10891.5 |
| 37.5° | 10351.0 | 9605.1  | 7718.6  | 7829.4  | 8391.6  | 8929.4  | 8829.4  | 8318.6  | 9161.8  | 11367.2 | 11623.9 |
| 40°   | 10848.3 | 9975.3  | 8437.5  | 9545.6  | 10699.6 | 11572.6 | 11191.5 | 9905.1  | 9832.1  | 12250.9 | 12634.7 |
| 42.5° | 11572.6 | 10564.5 | 9713.2  | 11642.8 | 13599.5 | 15037.3 | 14015.7 | 11950.9 | 11005.0 | 13513.0 | 14002.2 |
| 45°   | 12642.8 | 11518.5 | 11256.4 | 13856.3 | 17175.1 | 19439.8 | 17315.6 | 14131.9 | 12648.2 | 15423.8 | 15807.5 |
| 47.5° | 14126.5 | 12921.2 | 12702.2 | 16188.6 | 21520.9 | 24450.5 | 20974.9 | 16153.5 | 14518.4 | 18029.1 | 18118.3 |
| 50°   | 16096.7 | 14810.3 | 14072.5 | 18739.9 | 26285.5 | 29558.4 | 24631.6 | 18104.8 | 16661.6 | 21212.8 | 21110.1 |
| 52.5° | 18696.6 | 17445.3 | 15669.7 | 21169.5 | 31185.4 | 34558.2 | 28304.4 | 19818.2 | 19320.9 | 24907.2 | 24696.4 |
| 55°   | 22242.4 | 21410.0 | 17853.4 | 23488.3 | 36082.5 | 39587.8 | 31834.0 | 21434.4 | 22834.3 | 29296.2 | 28020.6 |
| 57.5° | 26642.3 | 27236.9 | 21002.0 | 26177.4 | 40485.0 | 44771.4 | 35379.8 | 23693.7 | 27396.3 | 34204.2 | 29950.3 |
| 60°   | 29480.0 | 34985.2 | 27031.5 | 30153.0 | 45487.6 | 50633.3 | 40239.1 | 27990.9 | 32190.7 | 35963.6 | 29582.7 |
| 62.5° | 28793.6 | 37450.0 | 34252.8 | 35228.5 | 50087.4 | 54895.3 | 45001.1 | 32307.0 | 33093.4 | 33371.8 | 26750.4 |
| 65°   | 26688.2 | 35460.9 | 32779.9 | 36214.9 | 51252.2 | 55135.9 | 46274.0 | 31750.2 | 28072.0 | 27245.0 | 21501.9 |
| 67.5° | 23791.0 | 33101.5 | 29280.0 | 33598.8 | 49146.9 | 51773.8 | 43903.8 | 28085.5 | 21693.8 | 20445.2 | 15599.4 |
| 70°   | 20664.1 | 30490.8 | 26982.8 | 30663.8 | 45133.5 | 45914.6 | 39874.2 | 24701.8 | 15956.2 | 13807.6 | 10010.5 |
| 72.5° | 17696.7 | 27772.0 | 25409.9 | 27655.8 | 39779.7 | 38163.5 | 34628.5 | 21710.0 | 11618.5 | 9959.1  | 7116.0  |
| 75°   | 14661.6 | 23761.3 | 23169.4 | 24082.9 | 32739.4 | 30061.1 | 28771.9 | 17975.0 | 9118.6  | 7205.1  | 4910.6  |
| 77.5° | 11313.1 | 18566.9 | 19929.0 | 19285.8 | 23045.1 | 22328.9 | 22301.9 | 13507.6 | 6661.9  | 4807.9  | 3078.3  |
| 80°   | 7743.0  | 12940.1 | 15569.7 | 13604.9 | 14956.2 | 14591.4 | 16796.7 | 9061.8  | 4832.3  | 2894.5  | 1713.5  |
| 82.5° | 4551.2  | 7878.1  | 10837.5 | 6586.3  | 8270.0  | 8488.9  | 10002.3 | 4408.0  | 2843.1  | 667.5   | 373.0   |
| 85°   | 1845.9  | 3110.7  | 4237.7  | 2578.3  | 3989.0  | 3364.7  | 3797.2  | 1237.8  | 791.9   | 16.2    | 0.0     |
| 87.5° | 464.8   | 994.6   | 697.3   | 289.2   | 462.1   | 424.3   | 335.1   | 151.3   | 32.4    | 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):**

|       | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5432.2  | 5432.2  | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 |
| 2.5°  | 6032.2  | 5970.1  | 5816.0 | 5662.0 | 5537.6 | 5370.1 | 5259.3 | 5126.8 | 4999.8 | 4886.3 | 4864.7 |
| 5°    | 6670.0  | 6464.6  | 6183.6 | 5926.8 | 5664.7 | 5410.6 | 5159.3 | 4894.4 | 4651.2 | 4502.5 | 4408.0 |
| 7.5°  | 7188.9  | 6826.8  | 6453.8 | 6126.8 | 5810.6 | 5513.3 | 5180.9 | 4859.3 | 4478.2 | 4275.5 | 4091.7 |
| 10°   | 7575.4  | 7099.7  | 6610.6 | 6234.9 | 5916.0 | 5626.8 | 5345.8 | 5021.4 | 4562.0 | 4308.0 | 4032.3 |
| 12.5° | 7829.4  | 7264.6  | 6691.7 | 6261.9 | 5905.2 | 5680.9 | 5556.6 | 5429.5 | 4972.8 | 4675.5 | 4275.5 |
| 15°   | 8005.1  | 7380.8  | 6748.4 | 6199.8 | 5762.0 | 5597.1 | 5721.4 | 5867.4 | 5575.5 | 5232.2 | 4710.6 |
| 17.5° | 8197.0  | 7532.2  | 6772.7 | 6032.2 | 5483.6 | 5413.3 | 5734.9 | 6072.8 | 6059.2 | 5718.7 | 5207.9 |
| 20°   | 8399.7  | 7664.6  | 6756.5 | 5762.0 | 5145.8 | 5207.9 | 5618.7 | 6010.6 | 6175.5 | 5991.7 | 5537.6 |
| 22.5° | 8607.8  | 7791.6  | 6694.4 | 5410.6 | 4829.6 | 5024.1 | 5434.9 | 5778.2 | 5972.8 | 5916.0 | 5570.1 |
| 25°   | 8870.0  | 7970.0  | 6602.5 | 5032.3 | 4567.4 | 4837.7 | 5221.4 | 5499.8 | 5634.9 | 5632.2 | 5394.4 |
| 27.5° | 9183.5  | 8207.8  | 6553.8 | 4726.9 | 4380.9 | 4626.9 | 4967.4 | 5216.0 | 5310.6 | 5310.6 | 5121.4 |
| 30°   | 9548.3  | 8488.9  | 6499.8 | 4526.9 | 4272.8 | 4408.0 | 4672.8 | 4916.0 | 5010.6 | 5010.6 | 4851.2 |
| 32.5° | 9953.7  | 8759.1  | 6370.0 | 4405.2 | 4191.7 | 4194.4 | 4362.0 | 4583.6 | 4697.1 | 4713.3 | 4599.8 |
| 35°   | 10440.2 | 9048.3  | 6086.3 | 4308.0 | 4097.2 | 3986.3 | 4067.4 | 4251.2 | 4386.3 | 4421.5 | 4351.2 |
| 37.5° | 11078.0 | 9402.4  | 5680.9 | 4164.7 | 3951.2 | 3767.4 | 3786.4 | 3926.9 | 4075.5 | 4129.6 | 4083.6 |
| 40°   | 11934.7 | 9818.6  | 5259.3 | 3959.3 | 3745.8 | 3526.9 | 3518.8 | 3621.5 | 3767.4 | 3826.9 | 3802.6 |
| 42.5° | 13067.1 | 10318.5 | 4856.6 | 3762.0 | 3497.2 | 3272.9 | 3259.3 | 3340.4 | 3467.4 | 3529.6 | 3518.8 |
| 45°   | 14515.7 | 10932.0 | 4510.6 | 3608.0 | 3253.9 | 3032.3 | 3026.9 | 3094.5 | 3205.3 | 3270.2 | 3256.6 |
| 47.5° | 16529.1 | 11545.5 | 4275.5 | 3526.9 | 3062.1 | 2835.0 | 2845.8 | 2905.3 | 3005.3 | 3051.2 | 3032.3 |
| 50°   | 19153.4 | 11732.0 | 4156.6 | 3526.9 | 2959.4 | 2659.4 | 2713.4 | 2762.1 | 2837.7 | 2864.8 | 2840.4 |
| 52.5° | 21672.2 | 11115.8 | 4048.5 | 3548.5 | 2972.9 | 2510.7 | 2626.9 | 2662.1 | 2726.9 | 2737.7 | 2702.6 |
| 55°   | 22907.3 | 9556.4  | 3899.9 | 3553.9 | 3056.6 | 2383.7 | 2556.7 | 2621.5 | 2645.9 | 2643.1 | 2583.7 |
| 57.5° | 22483.0 | 7726.8  | 3648.5 | 3532.3 | 3113.4 | 2302.6 | 2470.2 | 2594.5 | 2610.7 | 2586.4 | 2475.6 |
| 60°   | 20993.8 | 5689.0  | 3456.6 | 3372.9 | 3091.8 | 2278.3 | 2337.8 | 2535.0 | 2559.4 | 2526.9 | 2345.9 |
| 62.5° | 18496.6 | 3948.5  | 3308.0 | 3021.5 | 2997.2 | 2270.2 | 2129.7 | 2405.3 | 2464.8 | 2418.8 | 2154.0 |
| 65°   | 14561.6 | 2789.1  | 2848.5 | 2648.6 | 2791.8 | 2226.9 | 1913.4 | 2248.6 | 2329.6 | 2259.4 | 1886.4 |
| 67.5° | 9853.7  | 2013.4  | 2308.0 | 2399.9 | 2459.4 | 2129.7 | 1756.7 | 2070.2 | 2178.3 | 2086.4 | 1575.6 |
| 70°   | 5321.4  | 1413.5  | 1524.3 | 2021.5 | 2089.1 | 1962.1 | 1616.2 | 1889.1 | 2013.4 | 1913.4 | 1283.7 |
| 72.5° | 3143.1  | 1016.2  | 1067.5 | 1624.3 | 1740.5 | 1727.0 | 1459.4 | 1678.3 | 1829.7 | 1710.7 | 1043.2 |
| 75°   | 1732.4  | 686.5   | 762.1  | 1178.3 | 1413.5 | 1332.4 | 1254.0 | 1421.6 | 1575.6 | 1459.4 | 805.4  |
| 77.5° | 775.6   | 410.8   | 529.7  | 772.9  | 1110.8 | 913.5  | 970.2  | 1108.1 | 1251.3 | 1129.7 | 537.8  |
| 80°   | 300.0   | 229.7   | 351.3  | 421.6  | 808.1  | 505.4  | 624.3  | 816.2  | 918.9  | 821.6  | 327.0  |
| 82.5° | 37.8    | 102.7   | 151.3  | 164.9  | 470.3  | 267.6  | 362.1  | 513.5  | 505.4  | 437.8  | 164.9  |
| 85°   | 0.0     | 18.9    | 21.6   | 10.8   | 202.7  | 97.3   | 118.9  | 167.6  | 156.8  | 118.9  | 13.5   |
| 87.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.4    | 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°    | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 |
| 2.5°  | 4732.3 | 4635.0 | 4586.3 | 4545.8 | 4583.6 | 4605.2 | 4605.2 | 4697.1 | 4751.2 | 4772.8 | 4924.1 |
| 5°    | 4170.1 | 3989.0 | 3867.4 | 3794.5 | 3818.8 | 3845.8 | 3875.5 | 3991.7 | 4070.1 | 4121.5 | 4356.6 |
| 7.5°  | 3726.9 | 3451.2 | 3281.0 | 3191.8 | 3205.3 | 3224.2 | 3248.5 | 3362.0 | 3440.4 | 3508.0 | 3770.1 |
| 10°   | 3508.0 | 3118.8 | 2894.5 | 2786.4 | 2767.5 | 2756.7 | 2748.6 | 2816.1 | 2875.6 | 2929.6 | 3189.1 |
| 12.5° | 3518.8 | 2975.6 | 2702.6 | 2570.2 | 2513.4 | 2448.6 | 2397.2 | 2408.0 | 2445.9 | 2513.4 | 2678.3 |
| 15°   | 3656.6 | 2929.6 | 2602.6 | 2437.8 | 2343.2 | 2267.5 | 2205.3 | 2191.8 | 2205.3 | 2216.1 | 2318.8 |
| 17.5° | 3843.1 | 2924.2 | 2516.1 | 2310.7 | 2213.4 | 2151.3 | 2094.5 | 2075.6 | 2078.3 | 2091.8 | 2118.8 |
| 20°   | 3991.7 | 2908.0 | 2418.8 | 2189.1 | 2102.6 | 2048.6 | 1991.8 | 1972.9 | 1978.3 | 1981.0 | 2010.7 |
| 22.5° | 4070.1 | 2883.7 | 2310.7 | 2067.5 | 1994.5 | 1940.5 | 1889.1 | 1886.4 | 1886.4 | 1902.6 | 1924.3 |
| 25°   | 4070.1 | 2832.3 | 2213.4 | 1951.3 | 1886.4 | 1837.8 | 1775.6 | 1786.4 | 1791.8 | 1813.4 | 1845.9 |
| 27.5° | 3972.8 | 2735.0 | 2135.1 | 1851.3 | 1783.7 | 1735.1 | 1678.3 | 1691.8 | 1699.9 | 1724.3 | 1764.8 |
| 30°   | 3848.5 | 2618.8 | 2045.9 | 1756.7 | 1678.3 | 1643.2 | 1594.5 | 1599.9 | 1610.8 | 1637.8 | 1683.7 |
| 32.5° | 3716.1 | 2481.0 | 1972.9 | 1662.1 | 1583.7 | 1556.7 | 1502.6 | 1510.8 | 1521.6 | 1551.3 | 1602.6 |
| 35°   | 3570.1 | 2318.8 | 1886.4 | 1575.6 | 1497.2 | 1475.6 | 1413.5 | 1418.9 | 1435.1 | 1467.5 | 1518.9 |
| 37.5° | 3416.1 | 2186.4 | 1799.9 | 1491.8 | 1410.8 | 1389.1 | 1324.3 | 1329.7 | 1348.6 | 1386.4 | 1435.1 |
| 40°   | 3264.7 | 2056.7 | 1708.0 | 1402.7 | 1321.6 | 1302.7 | 1232.4 | 1237.8 | 1259.4 | 1300.0 | 1351.3 |
| 42.5° | 3099.9 | 1956.7 | 1589.1 | 1310.8 | 1224.3 | 1205.4 | 1140.5 | 1148.6 | 1172.9 | 1213.5 | 1264.8 |
| 45°   | 2902.6 | 1891.8 | 1456.7 | 1224.3 | 1127.0 | 1108.1 | 1048.6 | 1064.8 | 1091.9 | 1132.4 | 1186.4 |
| 47.5° | 2699.9 | 1864.8 | 1345.9 | 1132.4 | 1027.0 | 1010.8 | 962.1  | 989.2  | 1018.9 | 1051.3 | 1110.8 |
| 50°   | 2505.3 | 1829.7 | 1232.4 | 1045.9 | 940.5  | 924.3  | 891.9  | 927.0  | 956.7  | 986.5  | 1043.2 |
| 52.5° | 2283.7 | 1754.0 | 1129.7 | 970.2  | 867.5  | 862.1  | 845.9  | 878.3  | 905.4  | 932.4  | 981.0  |
| 55°   | 2054.0 | 1632.4 | 1040.5 | 902.7  | 805.4  | 810.8  | 802.7  | 829.7  | 851.3  | 875.6  | 918.9  |
| 57.5° | 1854.0 | 1478.3 | 970.2  | 829.7  | 751.3  | 767.5  | 756.7  | 770.2  | 783.8  | 813.5  | 848.6  |
| 60°   | 1651.3 | 1294.5 | 891.9  | 743.2  | 697.3  | 716.2  | 686.5  | 683.8  | 689.2  | 697.3  | 762.1  |
| 62.5° | 1378.3 | 1102.7 | 794.6  | 667.5  | 637.8  | 645.9  | 589.2  | 545.9  | 545.9  | 554.0  | 651.3  |
| 65°   | 1108.1 | 924.3  | 686.5  | 581.1  | 556.7  | 551.3  | 470.3  | 410.8  | 405.4  | 429.7  | 513.5  |
| 67.5° | 910.8  | 767.5  | 578.4  | 483.8  | 467.6  | 473.0  | 413.5  | 354.0  | 348.6  | 375.7  | 437.8  |
| 70°   | 754.0  | 618.9  | 462.1  | 373.0  | 389.2  | 413.5  | 354.0  | 297.3  | 289.2  | 313.5  | 373.0  |
| 72.5° | 600.0  | 483.8  | 354.0  | 275.7  | 321.6  | 351.3  | 289.2  | 235.1  | 229.7  | 251.3  | 308.1  |
| 75°   | 440.5  | 345.9  | 240.5  | 200.0  | 248.6  | 275.7  | 210.8  | 167.6  | 159.5  | 178.4  | 235.1  |
| 77.5° | 273.0  | 194.6  | 151.3  | 118.9  | 170.3  | 183.8  | 110.8  | 97.3   | 94.6   | 108.1  | 148.6  |
| 80°   | 127.0  | 83.8   | 73.0   | 40.5   | 62.2   | 73.0   | 45.9   | 51.3   | 54.1   | 64.9   | 91.9   |
| 82.5° | 35.1   | 13.5   | 2.7    | 0.0    | 0.0    | 21.6   | 10.8   | 21.6   | 27.0   | 40.5   | 59.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.4    | 13.5   | 24.3   | 43.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 10.8   | 21.6   |
| 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°    | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2 | 5432.2  | 5432.2  |
| 2.5°  | 5037.7 | 5145.8 | 5318.7 | 5497.1 | 5672.8 | 5851.1 | 6024.1  | 6086.3  |
| 5°    | 4570.1 | 4818.7 | 5162.0 | 5529.5 | 5907.9 | 6291.7 | 6643.0  | 6802.5  |
| 7.5°  | 4048.5 | 4405.2 | 4921.4 | 5497.1 | 6099.8 | 6702.5 | 7256.5  | 7513.2  |
| 10°   | 3491.8 | 3943.1 | 4532.3 | 5310.6 | 6175.5 | 7007.9 | 7770.0  | 8102.4  |
| 12.5° | 2962.1 | 3435.0 | 4086.3 | 5018.7 | 6116.0 | 7183.5 | 8099.7  | 8491.6  |
| 15°   | 2518.8 | 2937.7 | 3640.4 | 4672.8 | 5924.1 | 7194.3 | 8256.5  | 8686.2  |
| 17.5° | 2186.4 | 2459.4 | 3186.4 | 4289.0 | 5672.8 | 7094.3 | 8310.5  | 8770.0  |
| 20°   | 2021.5 | 2097.2 | 2597.2 | 3797.2 | 5437.6 | 6999.7 | 8364.6  | 8848.3  |
| 22.5° | 1924.3 | 1943.2 | 2124.2 | 3162.0 | 5156.6 | 6970.0 | 8459.2  | 8956.4  |
| 25°   | 1845.9 | 1851.3 | 1899.9 | 2505.3 | 4726.9 | 6951.1 | 8605.1  | 9105.1  |
| 27.5° | 1767.5 | 1767.5 | 1794.5 | 2018.8 | 4143.1 | 6870.0 | 8794.3  | 9283.5  |
| 30°   | 1689.1 | 1689.1 | 1708.0 | 1786.4 | 3459.3 | 6710.6 | 9021.3  | 9515.9  |
| 32.5° | 1608.1 | 1608.1 | 1624.3 | 1681.0 | 2762.1 | 6510.6 | 9229.4  | 9751.0  |
| 35°   | 1527.0 | 1521.6 | 1543.2 | 1602.6 | 2197.2 | 6256.5 | 9437.5  | 10005.0 |
| 37.5° | 1440.5 | 1437.8 | 1459.4 | 1527.0 | 1897.2 | 5961.9 | 9594.3  | 10351.0 |
| 40°   | 1348.6 | 1348.6 | 1372.9 | 1445.9 | 1810.7 | 5591.7 | 9842.9  | 10848.3 |
| 42.5° | 1264.8 | 1259.4 | 1286.4 | 1375.6 | 1745.9 | 5237.7 | 10288.8 | 11572.6 |
| 45°   | 1183.7 | 1172.9 | 1197.3 | 1308.1 | 1632.4 | 5113.3 | 11121.2 | 12642.8 |
| 47.5° | 1108.1 | 1081.0 | 1102.7 | 1227.0 | 1529.7 | 5578.2 | 12483.3 | 14126.5 |
| 50°   | 1045.9 | 994.6  | 1013.5 | 1145.9 | 1451.3 | 6586.3 | 14250.8 | 16096.7 |
| 52.5° | 981.0  | 913.5  | 924.3  | 1045.9 | 1381.0 | 7545.7 | 16167.0 | 18696.6 |
| 55°   | 913.5  | 837.8  | 843.2  | 945.9  | 1281.0 | 7688.9 | 18037.2 | 22242.4 |
| 57.5° | 837.8  | 767.5  | 767.5  | 854.0  | 1208.1 | 6664.6 | 19475.0 | 26642.3 |
| 60°   | 754.0  | 708.1  | 694.6  | 781.1  | 1272.9 | 4702.5 | 19642.5 | 29480.0 |
| 62.5° | 662.1  | 637.8  | 618.9  | 710.8  | 1321.6 | 2786.4 | 18293.9 | 28793.6 |
| 65°   | 556.7  | 551.3  | 537.8  | 781.1  | 1113.5 | 1645.9 | 15704.8 | 26688.2 |
| 67.5° | 467.6  | 459.4  | 459.4  | 818.9  | 845.9  | 1035.1 | 12269.8 | 23791.0 |
| 70°   | 402.7  | 373.0  | 373.0  | 618.9  | 513.5  | 716.2  | 8567.3  | 20664.1 |
| 72.5° | 337.8  | 305.4  | 283.8  | 494.6  | 383.8  | 524.3  | 5353.9  | 17696.7 |
| 75°   | 270.3  | 245.9  | 218.9  | 327.0  | 286.5  | 397.3  | 3110.7  | 14661.6 |
| 77.5° | 194.6  | 183.8  | 154.0  | 240.5  | 208.1  | 286.5  | 1851.3  | 11313.1 |
| 80°   | 100.0  | 102.7  | 97.3   | 137.8  | 140.5  | 194.6  | 1054.0  | 7743.0  |
| 82.5° | 59.5   | 45.9   | 51.3   | 67.6   | 81.1   | 110.8  | 397.3   | 4551.2  |
| 85°   | 37.8   | 24.3   | 24.3   | 32.4   | 40.5   | 43.2   | 121.6   | 1845.9  |
| 87.5° | 18.9   | 8.1    | 10.8   | 16.2   | 13.5   | 10.8   | 5.4     | 464.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END OF REPORT)