

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: P946071

Luminaire Tested: **GLAN-SB1D-830-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7799 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

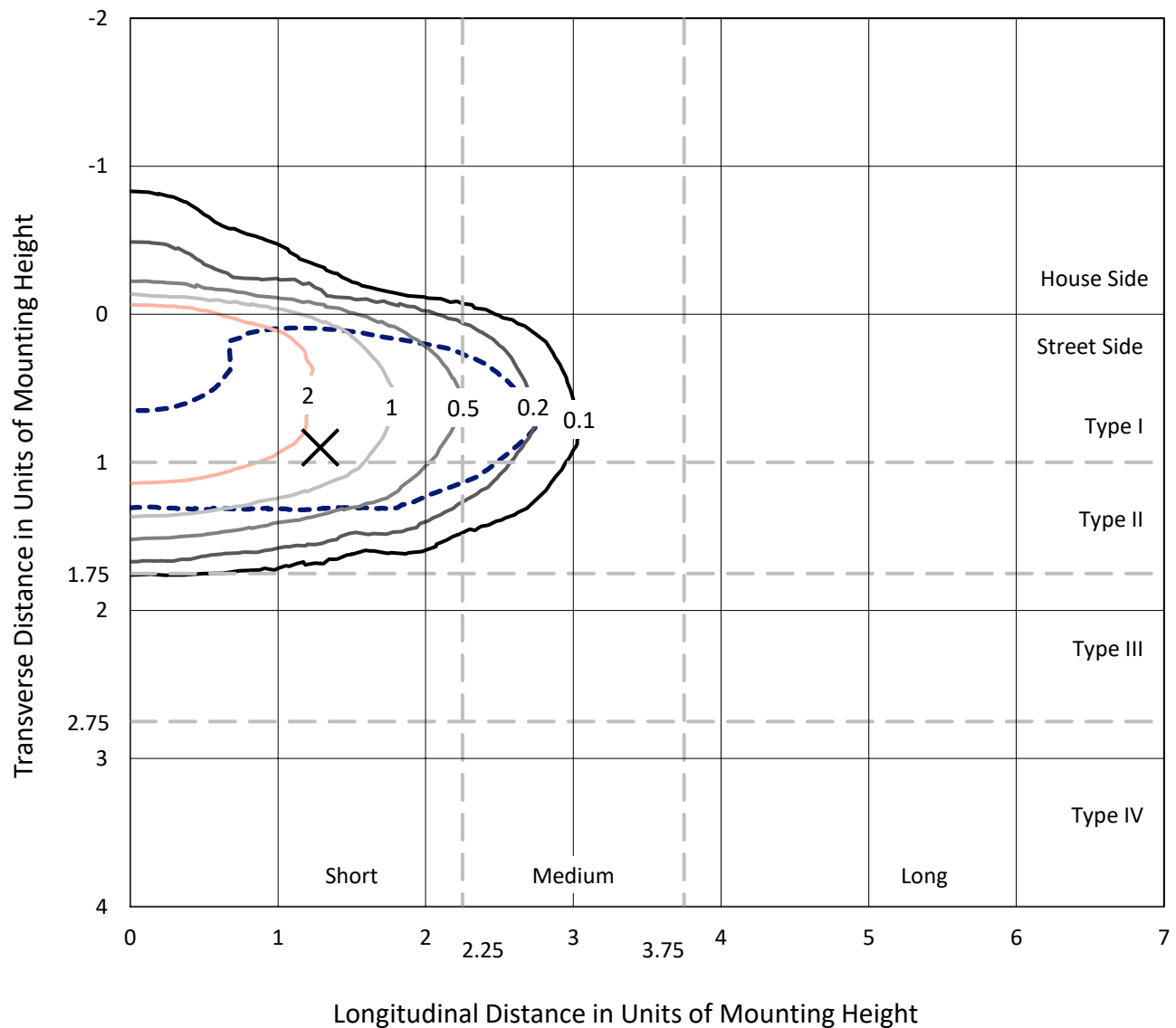
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

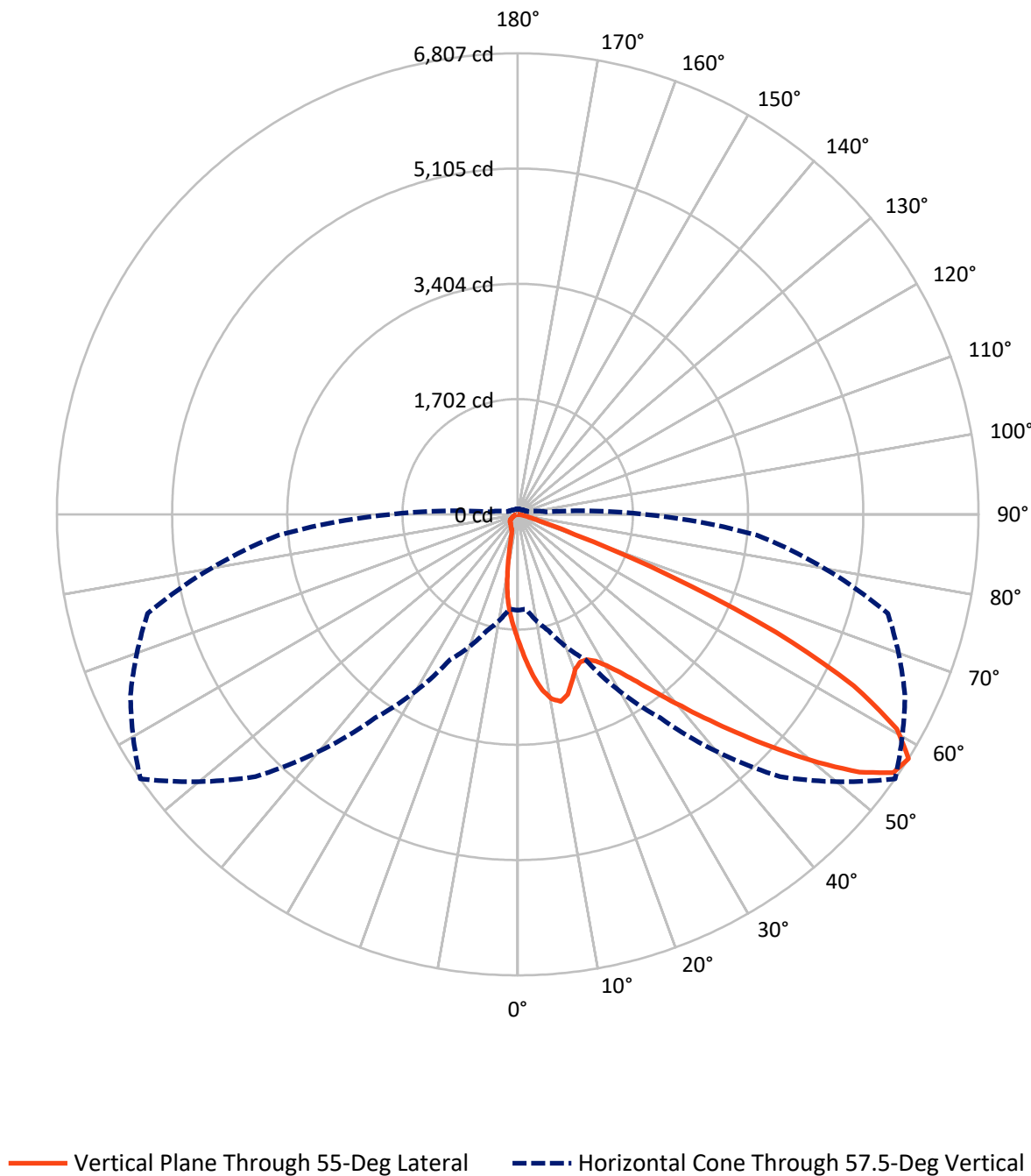
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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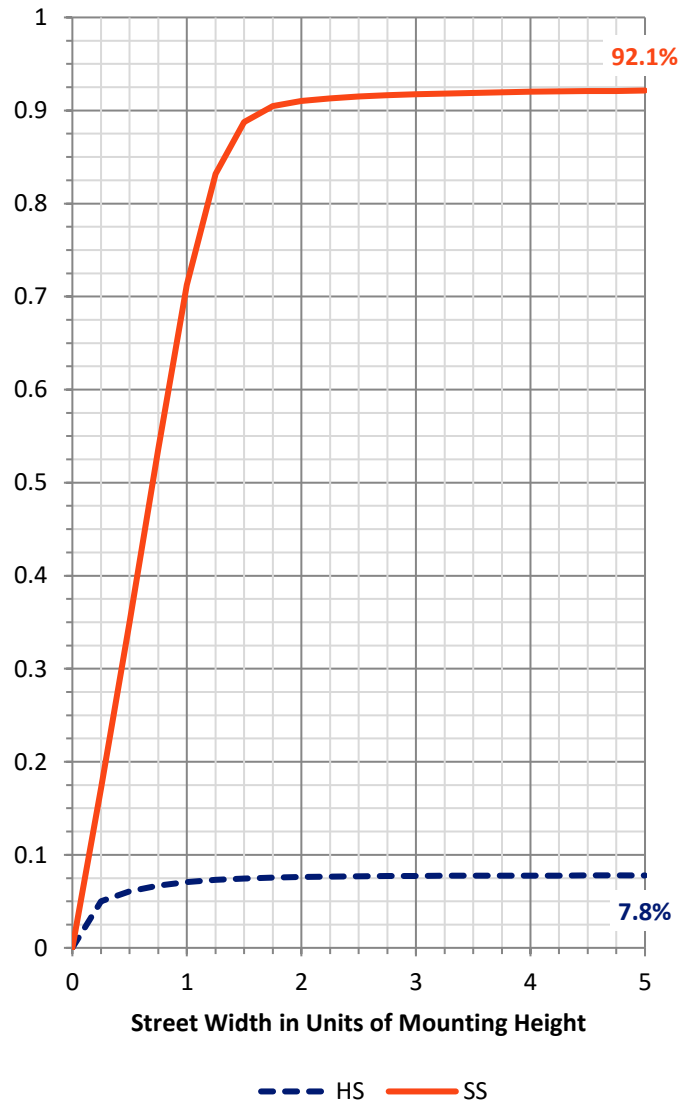
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 609.1    | 0.0    | 609.1  |
|                    | % Fixture | 7.8      | 0.0    | 7.8    |
| <b>Street Side</b> | Lumens    | 7189.9   | 0.0    | 7189.9 |
|                    | % Fixture | 92.2     | 0.0    | 92.2   |
| <b>Total</b>       | Lumens    | 7799.0   | 0.0    | 7799.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.9  | 2.2       |
| 10°-20°   | 422.4  | 5.4       |
| 20°-30°   | 675.8  | 8.7       |
| 30°-40°   | 1143.9 | 14.7      |
| 40°-50°   | 1878.0 | 24.1      |
| 50°-60°   | 2064.0 | 26.5      |
| 60°-70°   | 1183.9 | 15.2      |
| 70°-80°   | 241.9  | 3.1       |
| 80°-90°   | 14.3   | 0.2       |
| 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°    | 7799.0 | 100.0     |
| 0°-180°   | 7799.0 | 100.0     |

**Coefficient of Utilization**



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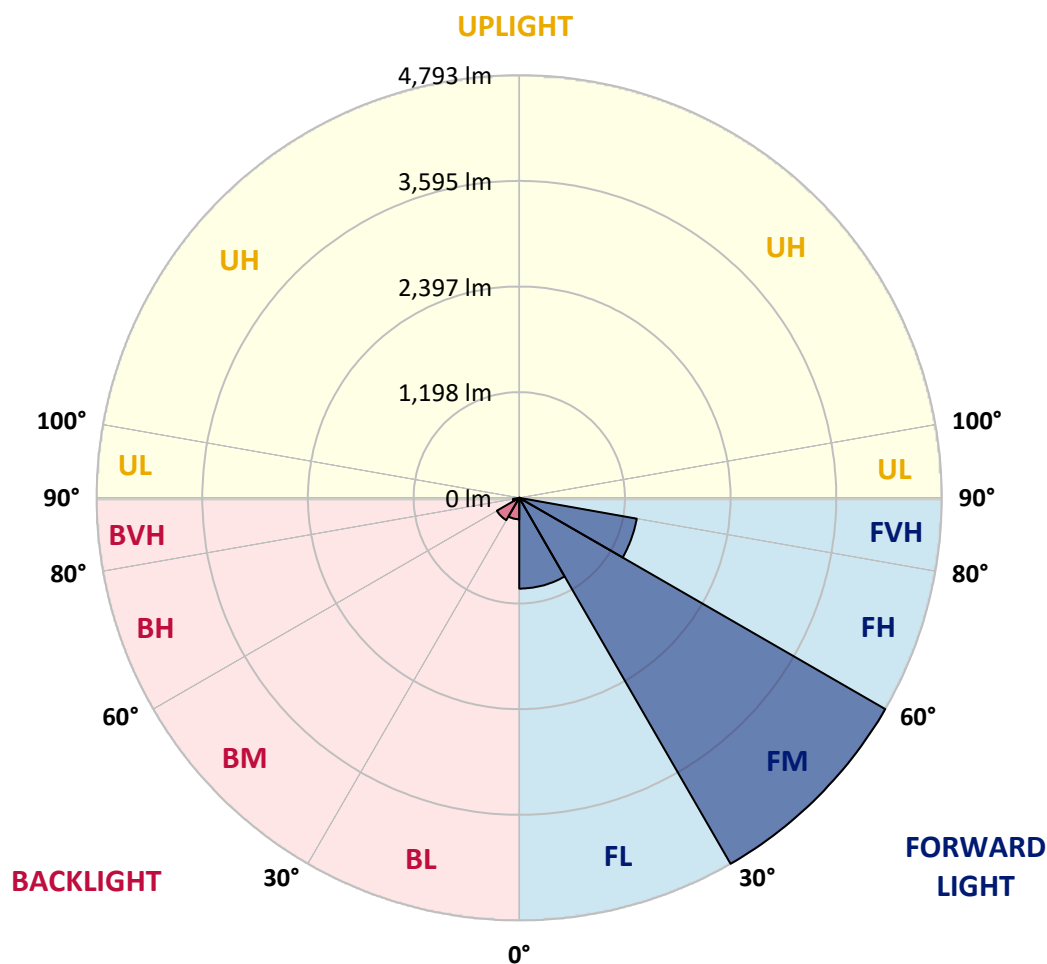
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1029.9 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 4793.3 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 1353.4 | 17.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 13.3   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 243.2  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 292.5  | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 72.4   | 0.9       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.0    | 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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 |
| 2.5°  | 2331.9 | 2302.6 | 2298.2 | 2292.5 | 2236.7 | 2194.8 | 2134.2 | 2067.9 | 1993.3 | 1917.4 |
| 5°    | 2694.0 | 2670.9 | 2666.6 | 2639.7 | 2576.2 | 2505.0 | 2397.3 | 2261.2 | 2122.2 | 1958.7 |
| 7.5°  | 2764.2 | 2759.9 | 2779.6 | 2778.7 | 2770.0 | 2713.7 | 2622.8 | 2460.8 | 2252.1 | 2009.7 |
| 10°   | 2451.2 | 2462.2 | 2520.9 | 2572.3 | 2711.3 | 2792.1 | 2772.4 | 2638.7 | 2385.8 | 2067.9 |
| 12.5° | 2166.0 | 2153.0 | 2194.8 | 2253.0 | 2414.6 | 2655.1 | 2834.4 | 2787.3 | 2538.7 | 2133.8 |
| 15°   | 1987.1 | 1981.8 | 2005.4 | 2032.3 | 2155.4 | 2397.8 | 2762.3 | 2908.0 | 2685.8 | 2211.7 |
| 17.5° | 1929.9 | 1925.5 | 1932.7 | 1939.5 | 2019.3 | 2206.9 | 2590.6 | 2982.1 | 2826.7 | 2300.6 |
| 20°   | 1976.5 | 1970.7 | 1969.8 | 1964.5 | 1997.7 | 2125.6 | 2435.3 | 2987.4 | 2953.2 | 2381.4 |
| 22.5° | 2112.6 | 2105.9 | 2082.3 | 2061.1 | 2064.0 | 2136.6 | 2366.0 | 2934.5 | 3048.4 | 2456.9 |
| 25°   | 2359.3 | 2348.2 | 2299.2 | 2228.0 | 2182.8 | 2213.6 | 2376.6 | 2864.7 | 3139.3 | 2516.1 |
| 27.5° | 2668.0 | 2653.6 | 2590.6 | 2484.8 | 2381.4 | 2343.9 | 2453.1 | 2816.6 | 3214.8 | 2561.3 |
| 30°   | 2970.5 | 2951.8 | 2889.7 | 2807.5 | 2656.5 | 2538.2 | 2591.1 | 2837.8 | 3304.8 | 2608.4 |
| 32.5° | 3297.1 | 3279.3 | 3197.0 | 3095.1 | 2970.1 | 2810.9 | 2780.1 | 2941.2 | 3414.9 | 2674.3 |
| 35°   | 3710.2 | 3682.3 | 3565.4 | 3426.4 | 3293.7 | 3132.6 | 3035.9 | 3119.6 | 3561.6 | 2774.8 |
| 37.5° | 4180.5 | 4143.0 | 4017.0 | 3825.1 | 3652.0 | 3471.6 | 3347.6 | 3364.9 | 3776.5 | 2909.5 |
| 40°   | 4623.9 | 4589.7 | 4473.4 | 4292.5 | 4075.2 | 3856.4 | 3724.1 | 3685.6 | 4073.2 | 3073.4 |
| 42.5° | 4889.8 | 4859.0 | 4810.0 | 4733.5 | 4550.3 | 4327.2 | 4160.3 | 4077.1 | 4424.3 | 3269.7 |
| 45°   | 4904.7 | 4877.8 | 4943.7 | 5032.6 | 4996.6 | 4848.0 | 4644.6 | 4492.1 | 4776.8 | 3453.8 |
| 47.5° | 4666.2 | 4647.9 | 4848.0 | 5158.6 | 5313.5 | 5376.0 | 5188.5 | 4872.5 | 5067.8 | 3586.1 |
| 50°   | 4016.0 | 4009.3 | 4420.9 | 4991.3 | 5434.2 | 5838.6 | 5762.2 | 5226.4 | 5293.3 | 3654.4 |
| 52.5° | 3482.2 | 3457.7 | 3697.7 | 4455.6 | 5258.7 | 6082.0 | 6322.9 | 5573.7 | 5451.0 | 3667.4 |
| 55°   | 2641.1 | 2619.5 | 2920.5 | 3559.2 | 4692.6 | 5995.4 | 6733.1 | 5931.9 | 5564.0 | 3634.2 |
| 57.5° | 1416.7 | 1403.3 | 1783.7 | 2368.9 | 3668.3 | 5476.0 | 6807.2 | 6310.9 | 5659.3 | 3546.2 |
| 60°   | 551.6  | 549.2  | 691.5  | 1149.4 | 2229.5 | 4455.1 | 6433.5 | 6538.3 | 5718.9 | 3438.0 |
| 62.5° | 333.7  | 341.0  | 364.0  | 516.0  | 984.9  | 2767.6 | 5572.2 | 6279.6 | 5758.8 | 3338.9 |
| 65°   | 276.0  | 276.5  | 279.4  | 354.4  | 471.8  | 1158.0 | 4194.9 | 5428.4 | 5660.2 | 3162.4 |
| 67.5° | 236.6  | 240.9  | 252.0  | 281.3  | 332.8  | 507.8  | 2415.1 | 4205.0 | 5060.5 | 2751.7 |
| 70°   | 186.6  | 192.4  | 206.3  | 231.3  | 256.8  | 317.9  | 892.6  | 2797.9 | 3866.0 | 2074.1 |
| 72.5° | 157.3  | 156.8  | 164.0  | 188.0  | 203.9  | 223.6  | 343.4  | 1567.7 | 2246.8 | 990.2  |
| 75°   | 121.7  | 126.5  | 135.6  | 157.3  | 166.9  | 162.1  | 186.1  | 572.8  | 805.0  | 300.1  |
| 77.5° | 95.2   | 99.1   | 107.2  | 128.4  | 138.0  | 114.9  | 107.2  | 204.9  | 258.7  | 107.7  |
| 80°   | 42.8   | 46.2   | 73.1   | 94.7   | 112.5  | 79.3   | 58.2   | 104.8  | 114.9  | 49.1   |
| 82.5° | 7.7    | 13.0   | 42.8   | 50.0   | 57.7   | 51.5   | 30.3   | 54.3   | 56.3   | 19.7   |
| 85°   | 0.5    | 1.0    | 14.9   | 18.3   | 23.1   | 16.8   | 9.1    | 21.6   | 18.8   | 6.7    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 2.4    | 2.9    | 3.8    | 2.9    | 2.4    |
| 90°   | 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1879.4 | 0°    | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 | 1879.4 |
| 1883.7 | 2.5°  | 1849.1 | 1780.8 | 1714.4 | 1660.1 | 1628.3 | 1574.5 | 1538.9 | 1533.1 | 1518.2 | 1531.2 |
| 1888.5 | 5°    | 1813.5 | 1691.3 | 1567.7 | 1457.1 | 1366.2 | 1248.9 | 1161.4 | 1124.3 | 1092.1 | 1103.2 |
| 1901.0 | 7.5°  | 1796.7 | 1603.8 | 1411.4 | 1222.5 | 1028.2 | 840.6  | 701.2  | 643.0  | 598.7  | 605.0  |
| 1915.0 | 10°   | 1774.0 | 1512.9 | 1211.4 | 922.9  | 662.7  | 477.5  | 381.4  | 345.8  | 326.1  | 326.5  |
| 1935.6 | 12.5° | 1756.7 | 1404.2 | 979.1  | 625.7  | 403.5  | 304.9  | 275.1  | 266.4  | 260.6  | 261.1  |
| 1966.9 | 15°   | 1748.1 | 1276.3 | 749.7  | 416.9  | 288.5  | 258.2  | 251.0  | 247.2  | 243.3  | 242.9  |
| 2001.5 | 17.5° | 1733.7 | 1134.0 | 548.7  | 304.4  | 252.5  | 241.9  | 235.6  | 231.3  | 226.5  | 225.5  |
| 2031.3 | 20°   | 1712.0 | 972.4  | 401.1  | 257.3  | 236.6  | 228.4  | 219.8  | 214.0  | 208.2  | 207.3  |
| 2050.1 | 22.5° | 1672.1 | 801.7  | 308.3  | 238.0  | 225.1  | 215.9  | 205.3  | 198.6  | 192.8  | 191.9  |
| 2041.0 | 25°   | 1598.0 | 641.5  | 259.7  | 226.0  | 215.0  | 203.9  | 192.4  | 183.2  | 177.9  | 177.0  |
| 2021.2 | 27.5° | 1504.3 | 504.0  | 235.6  | 215.0  | 202.0  | 191.9  | 178.9  | 170.2  | 165.4  | 164.5  |
| 1995.3 | 30°   | 1393.7 | 388.1  | 221.7  | 202.5  | 186.6  | 177.9  | 166.4  | 159.2  | 156.3  | 156.3  |
| 1977.0 | 32.5° | 1274.4 | 310.2  | 215.9  | 190.0  | 173.1  | 163.5  | 154.4  | 151.5  | 150.5  | 150.0  |
| 1987.1 | 35°   | 1162.3 | 269.3  | 213.0  | 179.9  | 161.1  | 152.0  | 148.1  | 148.6  | 150.5  | 150.5  |
| 2018.3 | 37.5° | 1062.8 | 256.3  | 211.6  | 172.6  | 150.5  | 142.3  | 144.8  | 149.1  | 147.2  | 147.2  |
| 2073.2 | 40°   | 972.9  | 257.8  | 210.6  | 167.4  | 141.9  | 137.1  | 141.9  | 138.5  | 133.7  | 133.2  |
| 2140.0 | 42.5° | 904.1  | 269.8  | 208.7  | 163.0  | 136.6  | 133.2  | 131.3  | 126.0  | 125.5  | 126.5  |
| 2209.3 | 45°   | 854.1  | 280.4  | 208.2  | 161.1  | 130.8  | 124.6  | 122.1  | 116.9  | 126.5  | 128.9  |
| 2237.6 | 47.5° | 794.9  | 280.4  | 208.2  | 154.4  | 121.2  | 118.8  | 114.9  | 109.2  | 118.8  | 121.2  |
| 2210.7 | 50°   | 718.5  | 262.6  | 200.1  | 146.7  | 113.5  | 112.1  | 105.3  | 98.1   | 96.2   | 97.6   |
| 2147.7 | 52.5° | 621.8  | 230.4  | 179.4  | 136.1  | 105.8  | 102.9  | 94.7   | 89.4   | 88.0   | 88.0   |
| 2034.7 | 55°   | 511.7  | 192.8  | 151.5  | 120.7  | 97.6   | 92.3   | 86.6   | 84.2   | 82.7   | 81.8   |
| 1876.5 | 57.5° | 416.0  | 158.2  | 121.7  | 107.2  | 89.9   | 83.2   | 81.3   | 78.4   | 76.0   | 74.5   |
| 1744.2 | 60°   | 341.4  | 124.6  | 100.5  | 95.2   | 82.2   | 76.0   | 75.5   | 71.7   | 65.4   | 64.4   |
| 1635.1 | 62.5° | 263.5  | 91.4   | 84.6   | 82.7   | 74.5   | 69.2   | 68.3   | 60.6   | 51.0   | 49.1   |
| 1480.2 | 65°   | 186.1  | 71.2   | 68.3   | 72.6   | 66.4   | 61.6   | 59.2   | 47.6   | 37.5   | 36.1   |
| 1238.8 | 67.5° | 130.8  | 59.6   | 53.9   | 63.5   | 57.7   | 51.5   | 50.0   | 40.4   | 31.3   | 30.3   |
| 936.8  | 70°   | 93.3   | 48.6   | 44.2   | 54.3   | 46.2   | 45.2   | 42.3   | 33.7   | 25.5   | 24.5   |
| 463.6  | 72.5° | 65.9   | 37.0   | 34.1   | 47.1   | 31.7   | 39.0   | 34.6   | 26.0   | 19.2   | 18.3   |
| 157.7  | 75°   | 48.6   | 26.4   | 24.0   | 27.4   | 23.1   | 29.3   | 24.5   | 17.3   | 12.0   | 11.5   |
| 71.2   | 77.5° | 35.6   | 16.8   | 14.4   | 13.5   | 13.5   | 18.3   | 13.5   | 7.2    | 5.3    | 4.8    |
| 36.1   | 80°   | 25.0   | 7.7    | 6.7    | 5.8    | 5.3    | 4.3    | 1.9    | 1.0    | 0.5    | 0.5    |
| 12.5   | 82.5° | 14.9   | 3.4    | 3.4    | 2.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4.8    | 85°   | 3.4    | 1.4    | 1.4    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 1.9    | 87.5° | 0.5    | 0.5    | 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    |

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