

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: P943418

Luminaire Tested: **GLAN-SB7D-850-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943418  
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: STREETWORKS  
Catalog Number: GLAN-SB7D-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA 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: 52411 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

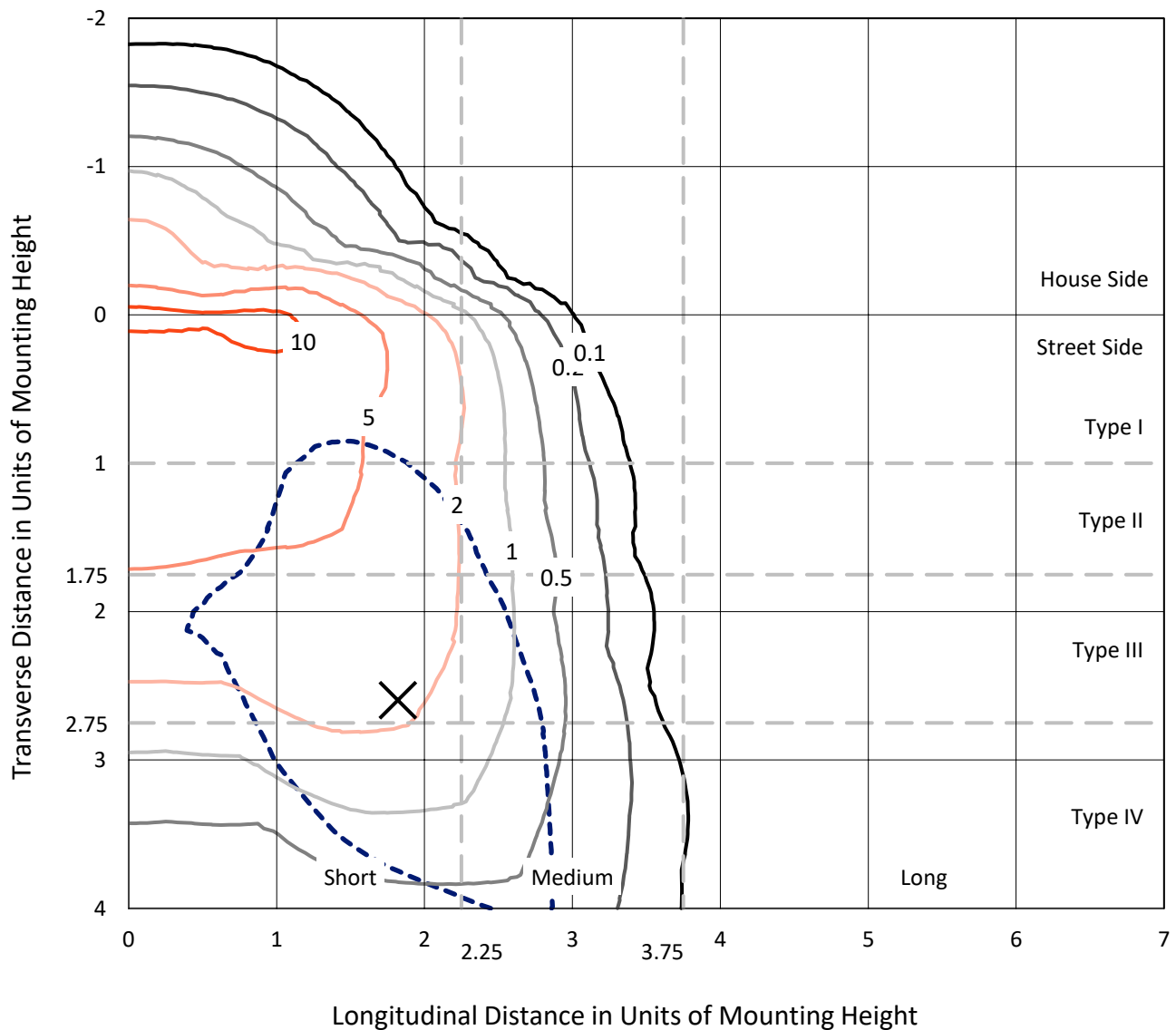
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

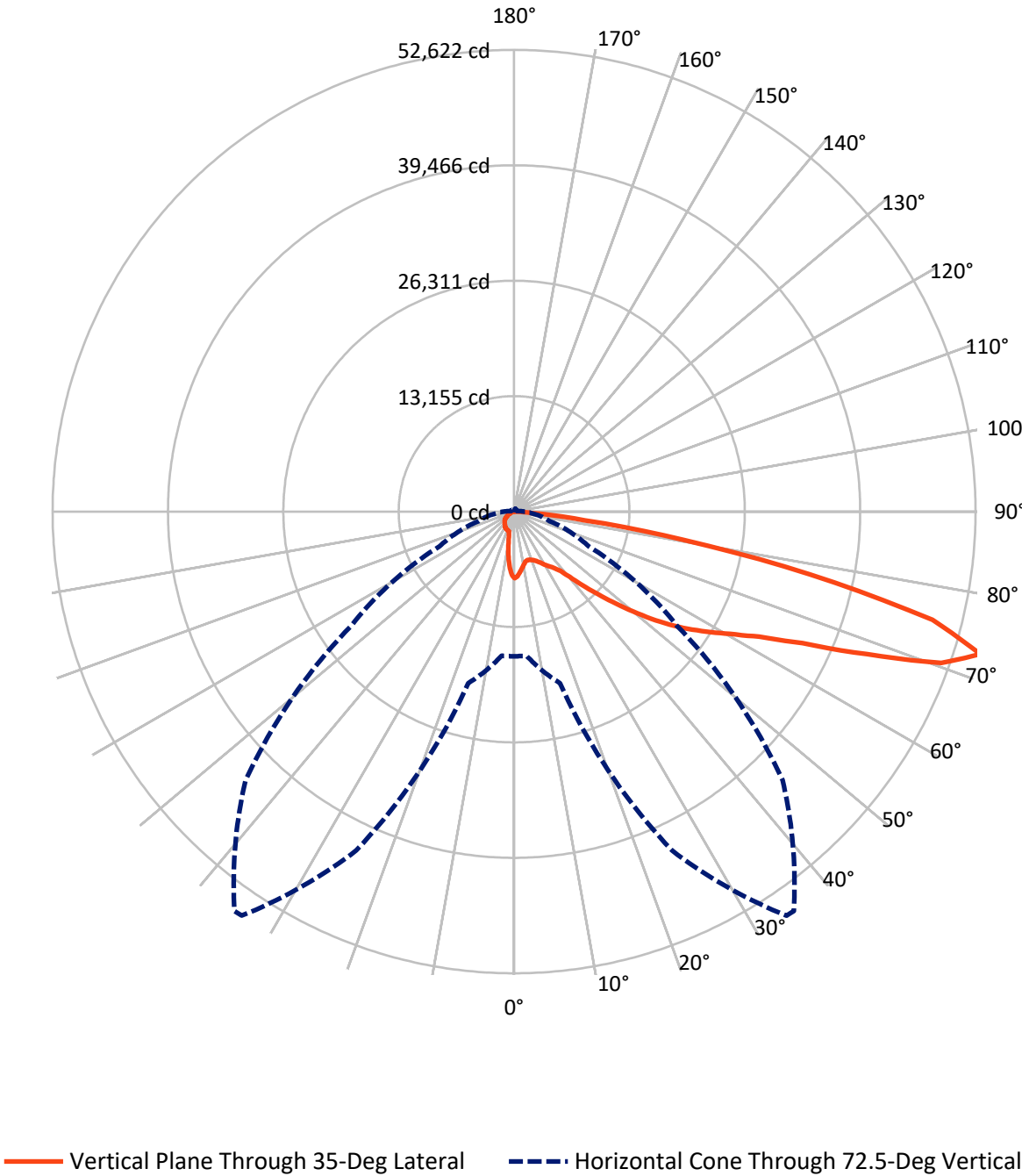
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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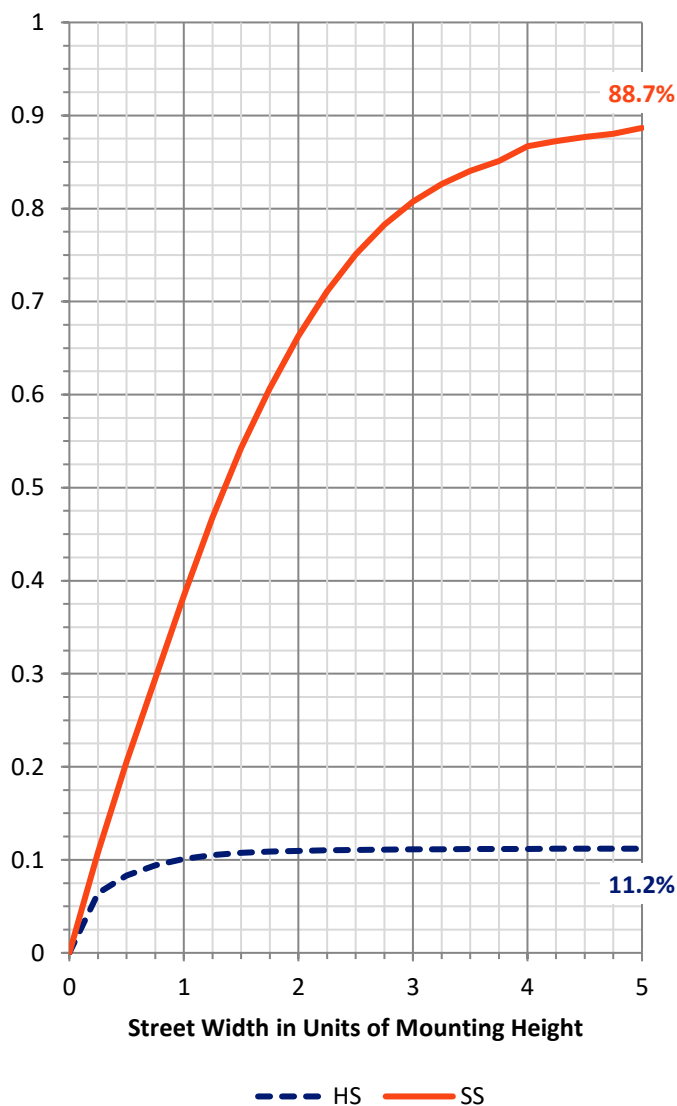
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5898.6   | 0.0    | 5898.6  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 46512.4  | 0.0    | 46512.4 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 52411.0  | 0.0    | 52411.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 624.2   | 1.2       |
| 10°-20°   | 1460.2  | 2.8       |
| 20°-30°   | 2372.1  | 4.5       |
| 30°-40°   | 3957.9  | 7.6       |
| 40°-50°   | 7488.4  | 14.3      |
| 50°-60°   | 11899.0 | 22.7      |
| 60°-70°   | 14719.8 | 28.1      |
| 70°-80°   | 9150.0  | 17.5      |
| 80°-90°   | 739.5   | 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°    | 52411.0 | 100.0     |
| 0°-180°   | 52411.0 | 100.0     |

**Coefficient of Utilization**



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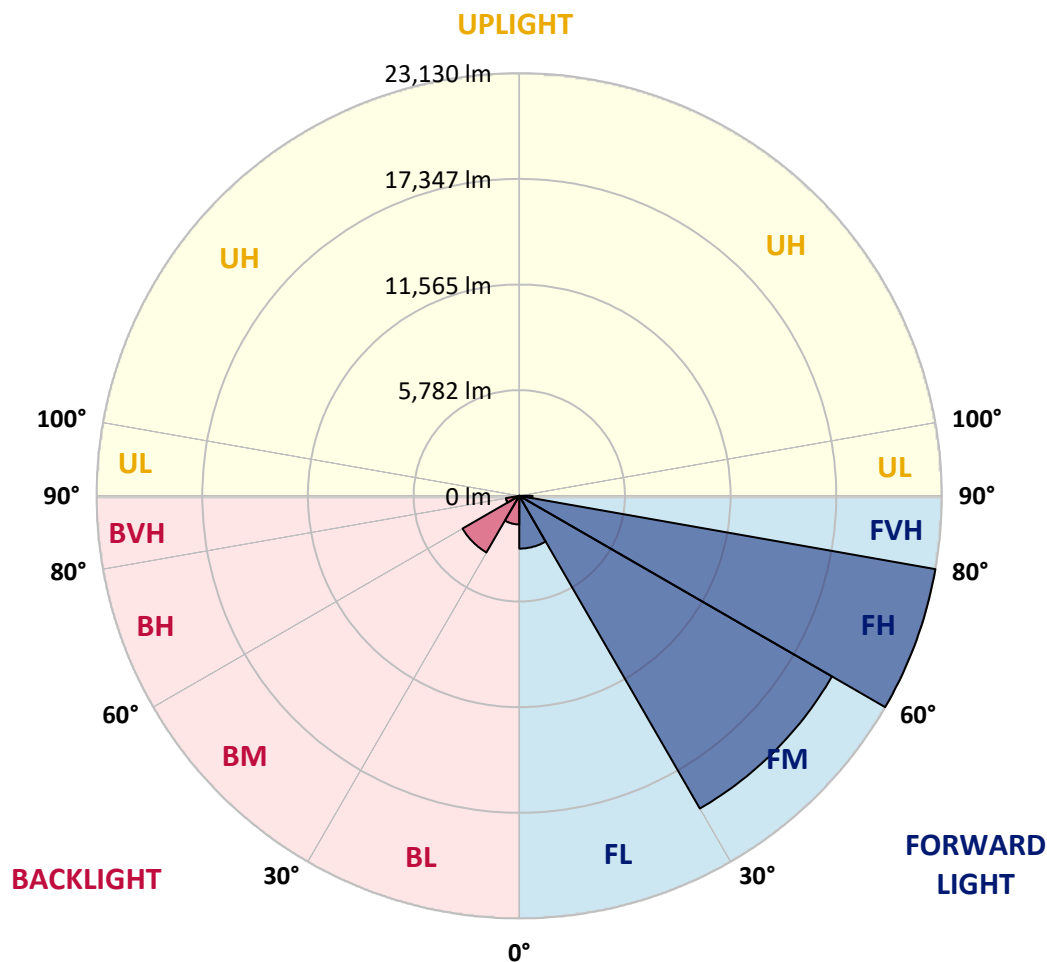
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2889.2  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 19764.2 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 23129.6 | 44.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 729.4   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1567.4  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3581.0  | 6.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 740.2   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 10.1    | 0.0       |                         |      | 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°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7596.1  | 7596.1  | 7596.1  | 7596.1  | 7596.1  | 7596.1  | 7596.1  | 7596.1  | 7596.1  | 7596.1  |
| 2.5°  | 7258.2  | 7319.6  | 7331.1  | 7350.3  | 7350.3  | 7373.4  | 7411.8  | 7465.5  | 7553.9  | 7600.0  |
| 5°    | 6689.8  | 6735.9  | 6793.5  | 6839.6  | 6927.9  | 6939.4  | 7089.2  | 7235.1  | 7438.7  | 7592.3  |
| 7.5°  | 6117.6  | 6171.4  | 6248.2  | 6359.5  | 6474.7  | 6509.3  | 6735.9  | 6981.7  | 7304.2  | 7592.3  |
| 10°   | 5714.4  | 5718.2  | 5787.3  | 5898.7  | 6083.0  | 6125.3  | 6401.8  | 6751.2  | 7154.5  | 7546.2  |
| 12.5° | 5487.8  | 5514.7  | 5545.4  | 5629.9  | 5806.5  | 5833.4  | 6129.1  | 6540.0  | 7004.7  | 7519.3  |
| 15°   | 5487.8  | 5507.0  | 5526.2  | 5568.4  | 5710.5  | 5733.6  | 5994.7  | 6405.6  | 6927.9  | 7530.8  |
| 17.5° | 5545.4  | 5576.1  | 5560.8  | 5610.7  | 5760.4  | 5775.8  | 6006.2  | 6367.2  | 6924.1  | 7603.8  |
| 20°   | 5683.6  | 5706.7  | 5676.0  | 5706.7  | 5856.5  | 5887.2  | 6125.3  | 6440.2  | 6989.3  | 7730.5  |
| 22.5° | 5902.5  | 5914.1  | 5841.1  | 5864.1  | 6017.7  | 6056.2  | 6332.7  | 6647.6  | 7146.8  | 7934.1  |
| 25°   | 6179.0  | 6202.1  | 6090.7  | 6117.6  | 6263.5  | 6309.6  | 6628.4  | 6958.6  | 7396.4  | 8214.4  |
| 27.5° | 6497.8  | 6509.3  | 6413.3  | 6409.5  | 6597.6  | 6662.9  | 6985.5  | 7342.7  | 7730.5  | 8567.7  |
| 30°   | 6862.6  | 6897.2  | 6805.0  | 6789.6  | 7027.7  | 7081.5  | 7400.3  | 7815.0  | 8222.1  | 9097.7  |
| 32.5° | 7150.6  | 7177.5  | 7123.8  | 7162.2  | 7404.1  | 7446.3  | 7903.3  | 8483.2  | 8994.0  | 9850.4  |
| 35°   | 7565.4  | 7580.7  | 7457.9  | 7527.0  | 7803.5  | 7911.0  | 8590.7  | 9420.3  | 9965.6  | 10795.1 |
| 37.5° | 9066.9  | 9066.9  | 8544.7  | 8202.9  | 8467.9  | 8563.9  | 9531.6  | 10599.2 | 11163.7 | 12062.4 |
| 40°   | 11144.5 | 11110.0 | 10345.8 | 9646.8  | 9612.3  | 9800.4  | 10871.9 | 12085.4 | 12711.4 | 13583.1 |
| 42.5° | 13360.4 | 13306.6 | 12265.9 | 11574.7 | 11459.5 | 11524.7 | 12419.5 | 13917.2 | 14554.7 | 15438.0 |
| 45°   | 15326.6 | 15311.3 | 14358.9 | 13429.5 | 13222.1 | 13429.5 | 14351.2 | 16060.1 | 16517.1 | 17446.5 |
| 47.5° | 16974.1 | 16974.1 | 16279.0 | 15672.3 | 15564.7 | 15687.6 | 16966.4 | 18437.3 | 18395.0 | 19585.5 |
| 50°   | 18871.2 | 18855.9 | 18195.3 | 17934.2 | 18045.6 | 18218.4 | 19977.2 | 20941.1 | 20338.2 | 21686.2 |
| 52.5° | 20200.0 | 20292.1 | 20065.6 | 20023.3 | 20591.7 | 20891.2 | 23034.1 | 23391.3 | 22077.9 | 23679.3 |
| 55°   | 21252.2 | 21359.7 | 21620.9 | 21916.6 | 23011.1 | 23402.8 | 25995.0 | 25714.6 | 23533.4 | 25407.4 |
| 57.5° | 22742.2 | 22588.6 | 22991.9 | 23575.6 | 25346.0 | 25818.3 | 28863.7 | 27907.5 | 24704.6 | 26809.1 |
| 60°   | 24551.0 | 24574.1 | 24643.2 | 25380.5 | 27677.0 | 28283.8 | 31690.1 | 29981.2 | 25457.3 | 27669.4 |
| 62.5° | 26724.6 | 26759.2 | 26901.3 | 28034.2 | 30806.9 | 31379.1 | 34700.9 | 31678.6 | 25803.0 | 27427.4 |
| 65°   | 26574.9 | 26720.8 | 28306.8 | 32181.7 | 35565.0 | 36129.5 | 38214.8 | 32869.1 | 25280.7 | 25215.4 |
| 67.5° | 24209.2 | 24447.3 | 27101.0 | 37135.7 | 42738.7 | 43368.5 | 42462.2 | 33103.4 | 23026.4 | 19608.6 |
| 70°   | 21106.3 | 21190.8 | 24382.1 | 41590.4 | 51045.3 | 51682.7 | 46264.1 | 30526.5 | 17473.4 | 10937.2 |
| 72.5° | 16482.6 | 16501.8 | 20246.1 | 42623.5 | 55553.8 | 55588.3 | 43280.2 | 22661.6 | 9397.2  | 4201.3  |
| 75°   | 11774.4 | 11659.1 | 13560.1 | 34566.5 | 48875.5 | 49267.2 | 32446.7 | 10629.9 | 3590.7  | 1985.4  |
| 77.5° | 6313.5  | 6440.2  | 7672.9  | 20499.5 | 33763.9 | 34432.1 | 17703.8 | 3064.6  | 1828.0  | 1351.8  |
| 80°   | 1950.9  | 2058.4  | 3145.2  | 9385.7  | 19124.7 | 19527.9 | 6563.1  | 1363.3  | 1275.0  | 963.9   |
| 82.5° | 614.4   | 637.5   | 1467.0  | 3944.0  | 7937.9  | 8122.2  | 1900.9  | 771.9   | 871.7   | 637.5   |
| 85°   | 176.7   | 180.5   | 652.9   | 1470.8  | 1962.4  | 2000.8  | 533.8   | 299.5   | 499.2   | 395.6   |
| 87.5° | 19.2    | 61.4    | 245.8   | 245.8   | 172.8   | 169.0   | 57.6    | 65.3    | 142.1   | 49.9    |
| 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):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7596.1  | 0°    | 7596.1  | 7596.1  | 7596.1 | 7596.1 | 7596.1 | 7596.1 | 7596.1 | 7596.1 | 7596.1 | 7596.1 |
| 7630.7  | 2.5°  | 7611.5  | 7615.3  | 7565.4 | 7480.9 | 7388.7 | 7311.9 | 7215.9 | 7139.1 | 7085.4 | 7070.0 |
| 7699.8  | 5°    | 7665.2  | 7638.4  | 7496.3 | 7239.0 | 6931.7 | 6666.8 | 6371.1 | 6136.8 | 5983.2 | 5917.9 |
| 7772.8  | 7.5°  | 7745.9  | 7669.1  | 7358.0 | 6851.1 | 6263.5 | 5741.2 | 5211.3 | 4800.4 | 4539.2 | 4408.7 |
| 7841.9  | 10°   | 7815.0  | 7661.4  | 7127.6 | 6290.4 | 5391.8 | 4600.7 | 3886.4 | 3391.0 | 3114.5 | 2983.9 |
| 7922.5  | 12.5° | 7880.3  | 7657.6  | 6828.1 | 5626.0 | 4408.7 | 3440.9 | 2776.5 | 2530.8 | 2454.0 | 2427.1 |
| 8053.1  | 15°   | 8003.2  | 7669.1  | 6451.7 | 4865.7 | 3429.4 | 2599.9 | 2357.9 | 2354.1 | 2369.5 | 2361.8 |
| 8252.8  | 17.5° | 8172.2  | 7680.6  | 6025.4 | 4059.2 | 2646.0 | 2292.7 | 2281.1 | 2315.7 | 2338.7 | 2327.2 |
| 8502.4  | 20°   | 8391.1  | 7726.7  | 5572.3 | 3260.4 | 2273.5 | 2215.9 | 2242.7 | 2273.5 | 2292.7 | 2273.5 |
| 8836.5  | 22.5° | 8698.3  | 7807.3  | 5076.9 | 2619.1 | 2154.4 | 2169.8 | 2192.8 | 2227.4 | 2246.6 | 2219.7 |
| 9262.8  | 25°   | 9074.6  | 7934.1  | 4589.2 | 2277.3 | 2096.8 | 2116.0 | 2150.6 | 2189.0 | 2212.0 | 2185.1 |
| 9800.4  | 27.5° | 9562.3  | 8137.6  | 4139.8 | 2200.5 | 2039.2 | 2050.7 | 2100.6 | 2158.2 | 2189.0 | 2154.4 |
| 10564.7 | 30°   | 10269.0 | 8471.7  | 3752.0 | 2235.1 | 2004.6 | 1977.8 | 2046.9 | 2127.5 | 2162.1 | 2131.4 |
| 11605.4 | 32.5° | 11206.0 | 8944.1  | 3513.9 | 2288.8 | 1989.3 | 1893.3 | 1958.6 | 2062.2 | 2119.8 | 2100.6 |
| 12964.8 | 35°   | 12434.9 | 9662.2  | 3421.7 | 2350.3 | 1977.8 | 1804.9 | 1851.0 | 1962.4 | 2062.2 | 2081.4 |
| 14677.6 | 37.5° | 13924.9 | 10660.7 | 3448.6 | 2377.1 | 1943.2 | 1732.0 | 1755.0 | 1851.0 | 1981.6 | 2043.0 |
| 16605.5 | 40°   | 15618.5 | 11824.3 | 3602.2 | 2350.3 | 1904.8 | 1670.5 | 1674.4 | 1747.3 | 1862.5 | 1954.7 |
| 18679.2 | 42.5° | 17365.8 | 13183.7 | 3886.4 | 2250.4 | 1870.2 | 1616.8 | 1605.2 | 1655.2 | 1732.0 | 1797.3 |
| 20749.1 | 45°   | 19028.7 | 14581.6 | 4166.7 | 2112.2 | 1828.0 | 1563.0 | 1536.1 | 1555.3 | 1570.7 | 1597.6 |
| 22765.3 | 47.5° | 20480.3 | 15564.7 | 4086.1 | 1985.4 | 1770.4 | 1501.6 | 1455.5 | 1447.8 | 1401.7 | 1397.9 |
| 24566.4 | 50°   | 21482.6 | 15779.8 | 3629.1 | 1858.7 | 1685.9 | 1432.4 | 1359.5 | 1313.4 | 1232.7 | 1194.3 |
| 25914.3 | 52.5° | 21801.4 | 14931.1 | 2964.7 | 1732.0 | 1547.6 | 1340.3 | 1236.6 | 1163.6 | 1063.8 | 1029.2 |
| 26690.1 | 55°   | 21378.9 | 13268.2 | 2369.5 | 1578.4 | 1355.6 | 1217.4 | 1102.2 | 1006.2 | 925.5  | 883.3  |
| 26774.6 | 57.5° | 20345.9 | 11152.2 | 1874.1 | 1397.9 | 1152.1 | 1079.1 | 963.9  | 867.9  | 798.8  | 756.5  |
| 25837.5 | 60°   | 18633.1 | 8855.7  | 1482.4 | 1182.8 | 983.1  | 929.4  | 810.3  | 748.9  | 687.4  | 637.5  |
| 23418.1 | 62.5° | 16033.2 | 6321.1  | 1163.6 | 937.0  | 821.8  | 760.4  | 691.3  | 645.2  | 572.2  | 503.1  |
| 19067.1 | 65°   | 12511.7 | 3867.2  | 898.6  | 687.4  | 660.5  | 629.8  | 587.6  | 545.3  | 457.0  | 387.9  |
| 12438.7 | 67.5° | 7891.8  | 1831.8  | 641.3  | 518.4  | 522.3  | 506.9  | 487.7  | 453.2  | 387.9  | 326.4  |
| 5572.3  | 70°   | 3475.5  | 887.1   | 422.4  | 395.6  | 387.9  | 387.9  | 403.2  | 391.7  | 330.3  | 272.7  |
| 1935.5  | 72.5° | 1182.8  | 476.2   | 314.9  | 299.5  | 280.3  | 276.5  | 337.9  | 326.4  | 265.0  | 211.2  |
| 963.9   | 75°   | 618.3   | 318.7   | 230.4  | 215.1  | 169.0  | 203.5  | 268.8  | 253.5  | 188.2  | 138.3  |
| 637.5   | 77.5° | 403.2   | 226.6   | 157.5  | 138.3  | 96.0   | 134.4  | 199.7  | 176.7  | 111.4  | 69.1   |
| 418.6   | 80°   | 253.5   | 149.8   | 92.2   | 65.3   | 46.1   | 73.0   | 107.5  | 76.8   | 42.2   | 15.4   |
| 245.8   | 82.5° | 134.4   | 76.8    | 34.6   | 23.0   | 19.2   | 23.0   | 26.9   | 19.2   | 7.7    | 0.0    |
| 126.7   | 85°   | 53.8    | 26.9    | 11.5   | 7.7    | 3.8    | 0.0    | 7.7    | 3.8    | 0.0    | 0.0    |
| 23.0    | 87.5° | 19.2    | 3.8     | 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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| 180°   |
|--------|
| 7596.1 |
| 7096.9 |
| 5940.9 |
| 4427.9 |
| 2987.8 |
| 2419.4 |
| 2357.9 |
| 2323.4 |
| 2269.6 |
| 2215.9 |
| 2181.3 |
| 2154.4 |
| 2127.5 |
| 2100.6 |
| 2081.4 |
| 2058.4 |
| 1985.4 |
| 1824.1 |
| 1612.9 |
| 1394.0 |
| 1198.2 |
| 1025.4 |
| 883.3  |
| 748.9  |
| 626.0  |
| 491.6  |
| 376.3  |
| 318.7  |
| 261.1  |
| 199.7  |
| 126.7  |
| 61.4   |
| 11.5   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |