

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: P943729

Luminaire Tested: **GLAN-SB8B-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8B-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40439 lumens  
Efficiency: N/A  
Efficacy: 138.1 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): 292.8  
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

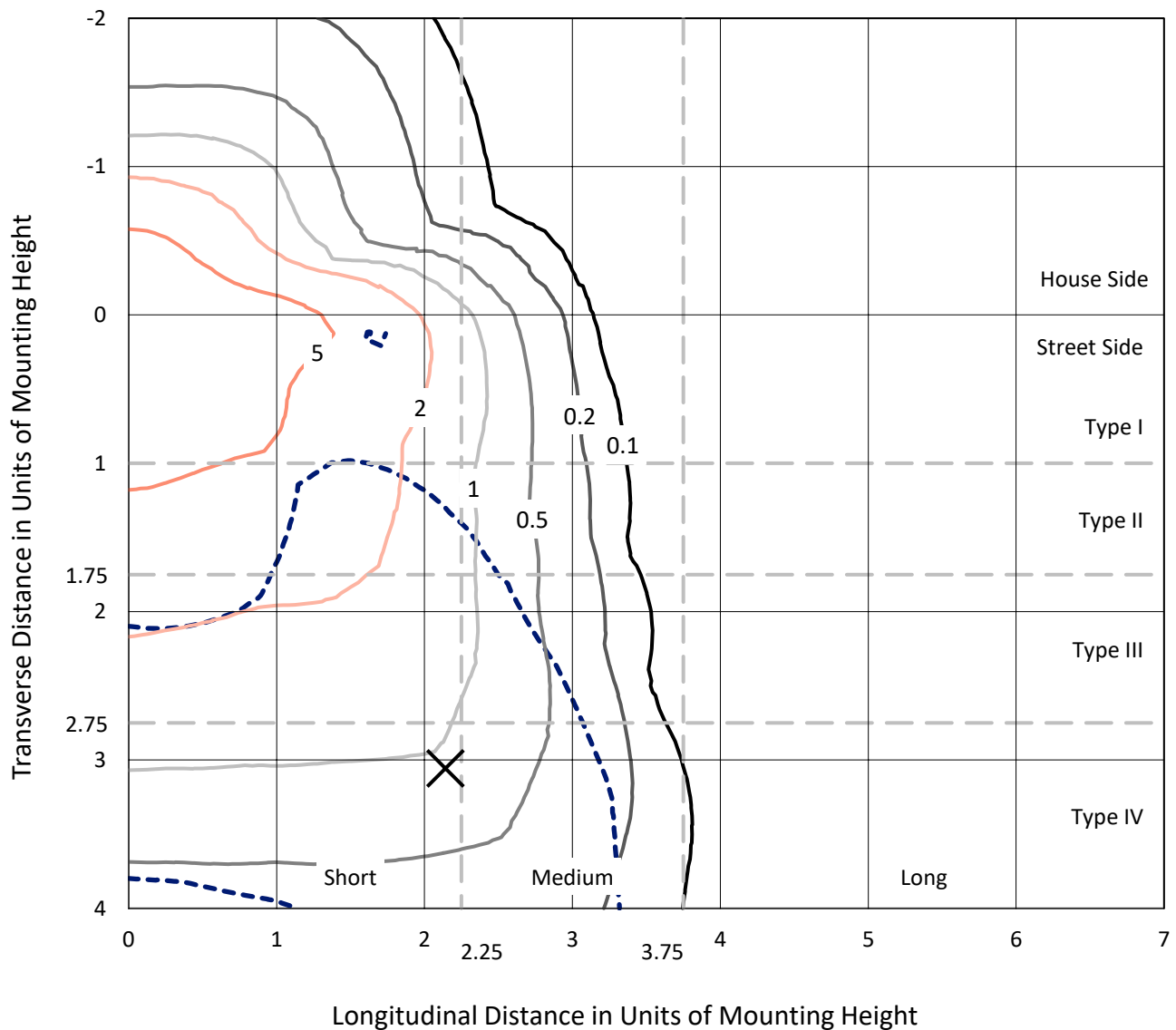


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## Iso-Footcandle Lines of Horizontal Illumination

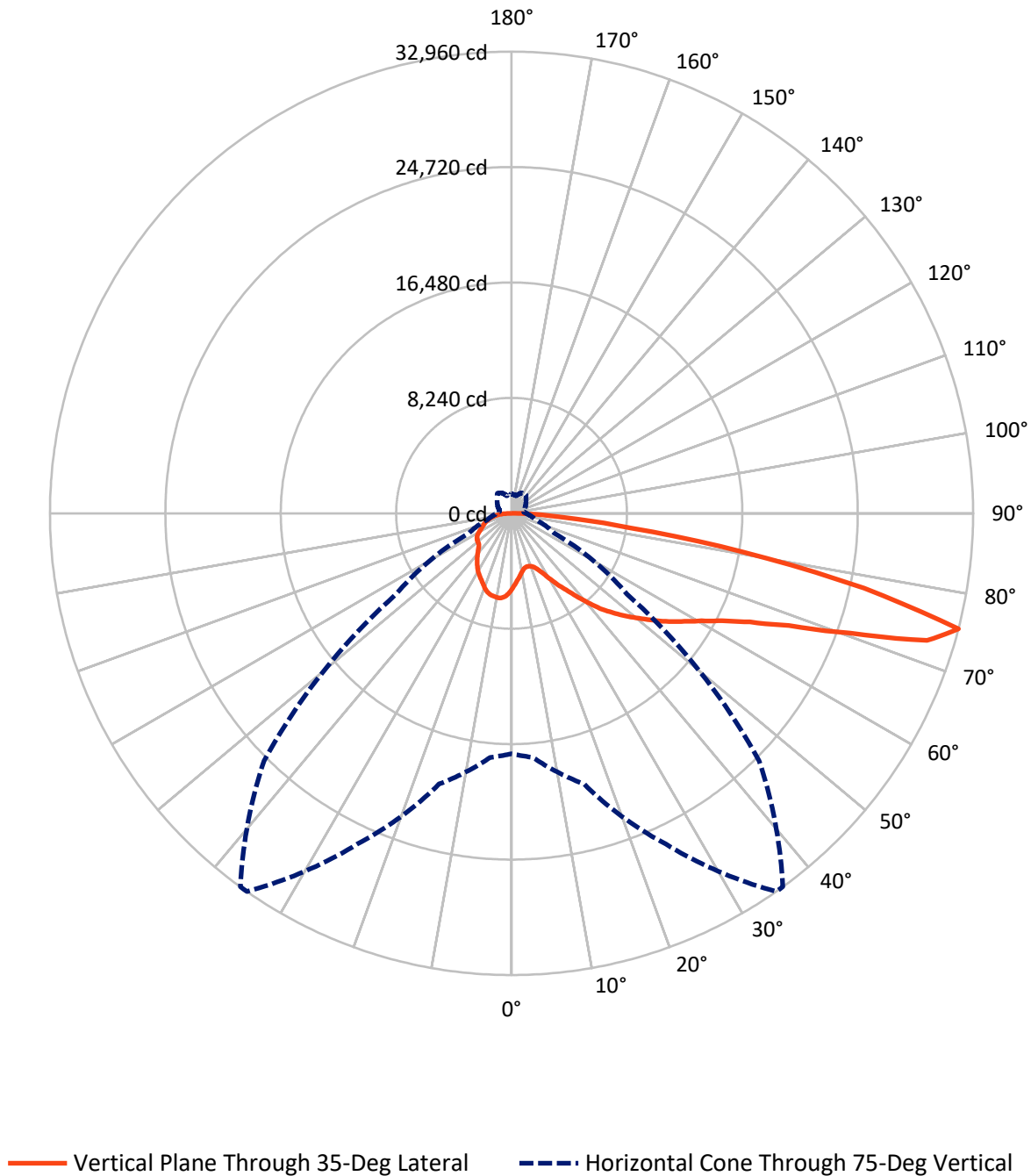
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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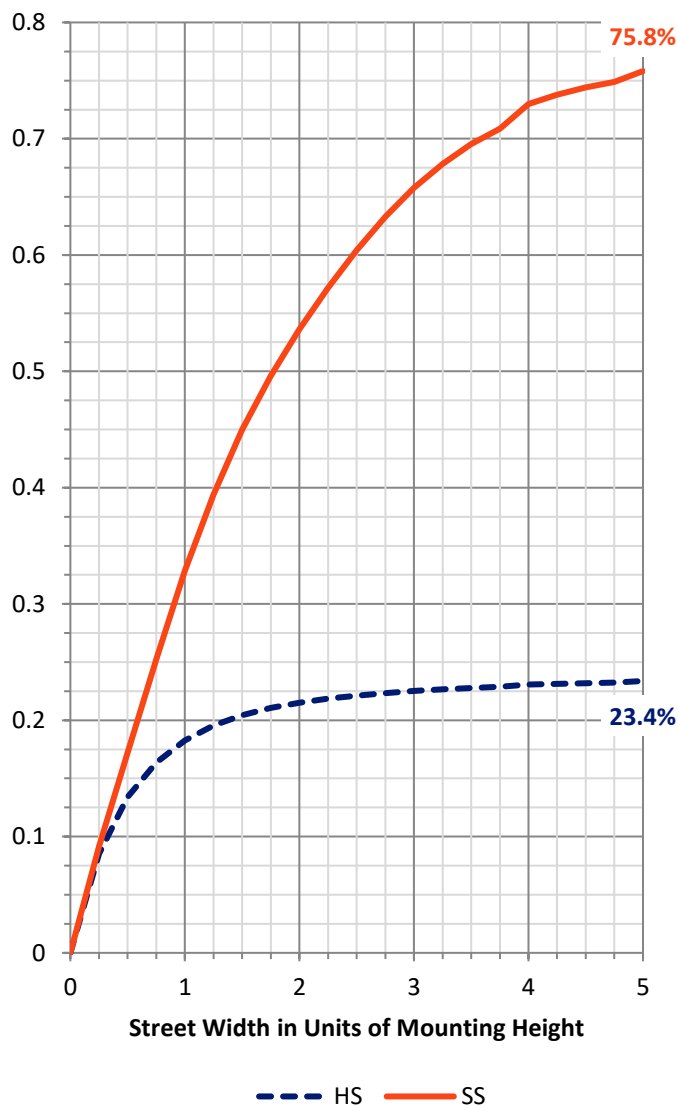
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9623.5   | 0.0    | 9623.5  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 30815.5  | 0.0    | 30815.5 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 40439.0  | 0.0    | 40439.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 510.2   | 1.3       |
| 10°-20°   | 1471.7  | 3.6       |
| 20°-30°   | 2471.3  | 6.1       |
| 30°-40°   | 3840.8  | 9.5       |
| 40°-50°   | 5700.7  | 14.1      |
| 50°-60°   | 7870.2  | 19.5      |
| 60°-70°   | 9548.3  | 23.6      |
| 70°-80°   | 7890.9  | 19.5      |
| 80°-90°   | 1135.0  | 2.8       |
| 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°    | 40439.0 | 100.0     |
| 0°-180°   | 40439.0 | 100.0     |

**Coefficient of Utilization**



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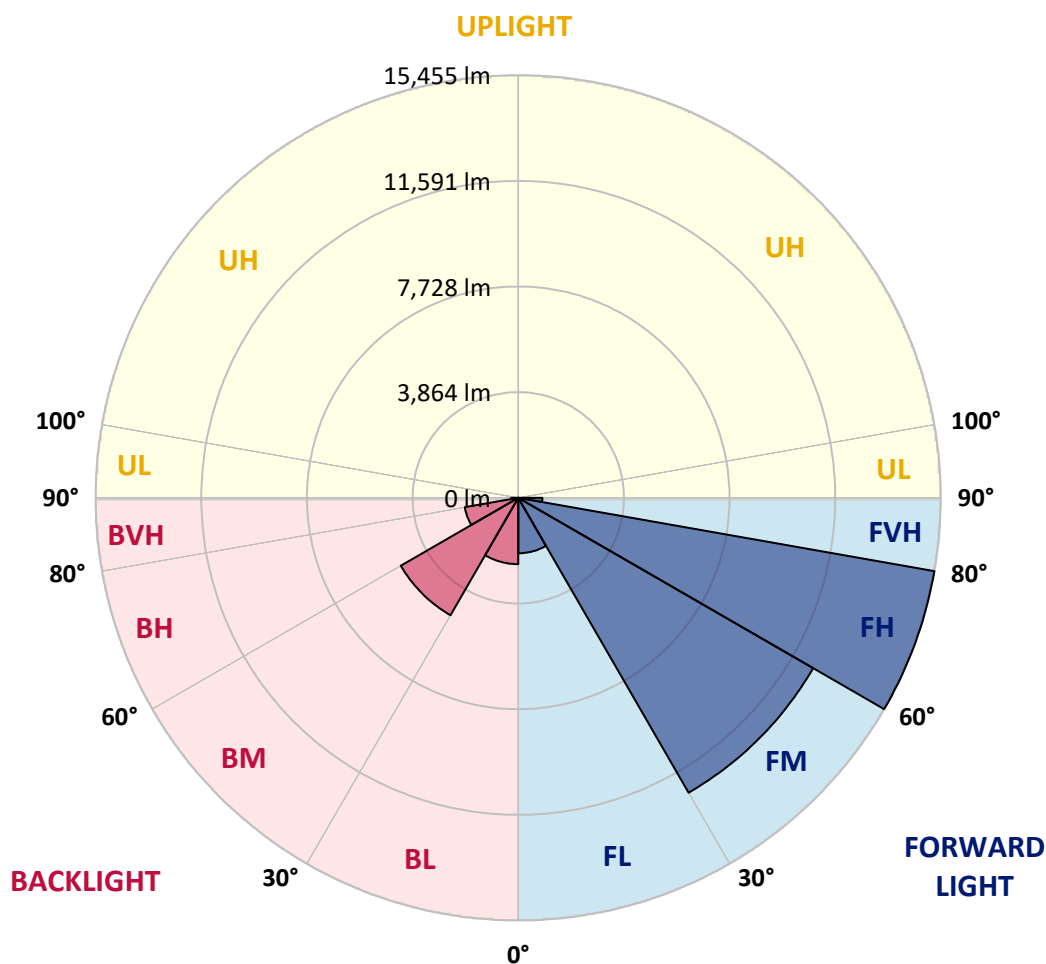
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2027.9  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 12453.0 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 15455.2 | 38.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 879.4   | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2425.2  | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4958.6  | 12.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1984.1  | 4.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 255.6   | 0.6       |                         |      | G3/500  |
| 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°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5388.8  | 5388.8  | 5388.8  | 5388.8  | 5388.8  | 5388.8  | 5388.8  | 5388.8  | 5388.8  | 5388.8  |
| 2.5°  | 4969.0  | 4999.6  | 5012.8  | 5006.2  | 5039.0  | 5034.6  | 5080.5  | 5137.4  | 5216.1  | 5292.6  |
| 5°    | 4586.5  | 4619.3  | 4647.7  | 4673.9  | 4737.3  | 4757.0  | 4829.1  | 4938.4  | 5082.7  | 5229.2  |
| 7.5°  | 4230.1  | 4258.5  | 4302.3  | 4350.4  | 4457.5  | 4477.2  | 4597.4  | 4767.9  | 4969.0  | 5183.3  |
| 10°   | 3939.4  | 3967.8  | 4013.7  | 4068.4  | 4201.7  | 4225.8  | 4378.8  | 4606.1  | 4868.5  | 5139.6  |
| 12.5° | 3814.8  | 3823.5  | 3849.7  | 3904.4  | 4020.3  | 4035.6  | 4203.9  | 4464.0  | 4770.1  | 5106.8  |
| 15°   | 3808.2  | 3825.7  | 3827.9  | 3856.3  | 3952.5  | 3959.1  | 4114.3  | 4372.2  | 4708.9  | 5100.2  |
| 17.5° | 3873.8  | 3886.9  | 3867.2  | 3884.7  | 3965.6  | 3976.5  | 4099.0  | 4328.5  | 4689.2  | 5128.6  |
| 20°   | 4048.7  | 4059.6  | 4000.6  | 3976.5  | 4035.6  | 4044.3  | 4164.5  | 4356.9  | 4708.9  | 5187.6  |
| 22.5° | 4420.3  | 4426.9  | 4282.6  | 4184.2  | 4188.6  | 4193.0  | 4297.9  | 4472.8  | 4785.4  | 5294.8  |
| 25°   | 4999.6  | 4995.3  | 4765.7  | 4575.5  | 4466.2  | 4442.2  | 4512.1  | 4660.8  | 4914.4  | 5436.9  |
| 27.5° | 5677.3  | 5644.5  | 5415.0  | 5130.8  | 4892.5  | 4857.5  | 4842.2  | 4905.6  | 5098.0  | 5624.9  |
| 30°   | 6442.5  | 6411.9  | 6164.8  | 5793.2  | 5463.1  | 5406.3  | 5262.0  | 5229.2  | 5371.3  | 5880.6  |
| 32.5° | 7281.9  | 7262.3  | 6967.1  | 6516.8  | 6075.2  | 6009.6  | 5767.0  | 5679.5  | 5791.0  | 6267.6  |
| 35°   | 7985.9  | 7968.4  | 7723.5  | 7260.1  | 6720.1  | 6639.2  | 6392.2  | 6293.8  | 6350.7  | 6763.8  |
| 37.5° | 8622.0  | 8613.3  | 8403.4  | 8038.3  | 7480.9  | 7382.5  | 7104.9  | 7072.1  | 7061.1  | 7417.5  |
| 40°   | 9212.3  | 9190.4  | 8971.8  | 8779.4  | 8366.3  | 8276.6  | 8031.8  | 8003.4  | 7920.3  | 8222.0  |
| 42.5° | 9865.9  | 9809.1  | 9492.1  | 9402.5  | 9291.0  | 9216.7  | 9070.2  | 9074.6  | 8890.9  | 9129.2  |
| 45°   | 10399.3 | 10366.6 | 10040.8 | 9988.4  | 10108.6 | 10078.0 | 10204.8 | 10237.6 | 9881.2  | 10080.2 |
| 47.5° | 10972.1 | 10941.5 | 10666.0 | 10628.9 | 10954.6 | 10963.4 | 11411.5 | 11422.4 | 10847.5 | 11068.3 |
| 50°   | 11678.2 | 11634.5 | 11361.2 | 11407.1 | 11772.2 | 11805.0 | 12624.8 | 12550.5 | 11737.2 | 12071.7 |
| 52.5° | 12143.9 | 12170.1 | 12111.1 | 12185.4 | 12683.8 | 12714.4 | 13818.4 | 13628.2 | 12618.2 | 13062.0 |
| 55°   | 12487.1 | 12539.5 | 12723.2 | 12893.7 | 13645.7 | 13676.3 | 14944.3 | 14653.5 | 13348.4 | 13980.2 |
| 57.5° | 12928.7 | 12854.3 | 13197.6 | 13529.9 | 14559.5 | 14640.4 | 16039.5 | 15641.6 | 13995.5 | 14771.6 |
| 60°   | 13562.6 | 13510.2 | 13776.9 | 14268.8 | 15582.6 | 15711.6 | 17198.2 | 16531.4 | 14469.9 | 15399.0 |
| 62.5° | 14848.1 | 14716.9 | 14758.5 | 15193.5 | 16872.4 | 17042.9 | 18505.5 | 17307.5 | 14706.0 | 15643.8 |
| 65°   | 16769.7 | 16544.5 | 16334.6 | 16636.3 | 18689.1 | 18857.4 | 19981.1 | 17917.4 | 14618.5 | 15169.4 |
| 67.5° | 19189.7 | 18966.7 | 18708.8 | 18993.0 | 21364.9 | 21498.2 | 21802.1 | 18260.6 | 13929.9 | 13341.9 |
| 70°   | 21185.6 | 21102.6 | 21410.8 | 22580.4 | 25638.7 | 25643.1 | 24136.9 | 17976.4 | 12043.3 | 9459.3  |
| 72.5° | 20921.1 | 20870.8 | 22495.1 | 26110.9 | 31025.3 | 30909.5 | 26347.0 | 15825.3 | 8112.7  | 4267.3  |
| 75°   | 17163.2 | 17488.9 | 20005.1 | 26047.5 | 32960.0 | 32944.7 | 24993.8 | 10060.5 | 3355.7  | 1768.6  |
| 77.5° | 9203.5  | 9719.5  | 12987.7 | 19231.2 | 25730.6 | 26117.5 | 17572.0 | 3519.6  | 1440.6  | 1132.4  |
| 80°   | 3001.5  | 3451.9  | 5176.7  | 9791.6  | 16719.4 | 16647.3 | 7531.2  | 1381.6  | 985.9   | 802.3   |
| 82.5° | 1274.5  | 1327.0  | 2312.9  | 4623.6  | 8580.5  | 8447.1  | 2398.2  | 793.6   | 693.0   | 548.7   |
| 85°   | 498.4   | 557.5   | 1020.9  | 2138.0  | 3716.4  | 3635.5  | 865.7   | 393.5   | 443.8   | 358.5   |
| 87.5° | 164.0   | 198.9   | 365.1   | 732.3   | 1156.5  | 1114.9  | 212.1   | 135.5   | 192.4   | 164.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5388.8  | 0°    | 5388.8  | 5388.8  | 5388.8 | 5388.8 | 5388.8 | 5388.8 | 5388.8 | 5388.8 | 5388.8 | 5388.8 |
| 5404.1  | 2.5°  | 5434.7  | 5469.7  | 5511.2 | 5572.4 | 5624.9 | 5668.6 | 5714.5 | 5742.9 | 5753.9 | 5786.6 |
| 5412.8  | 5°    | 5474.0  | 5550.5  | 5653.3 | 5753.9 | 5852.2 | 5911.3 | 5963.7 | 5990.0 | 6014.0 | 6031.5 |
| 5436.9  | 7.5°  | 5539.6  | 5638.0  | 5799.8 | 5930.9 | 6014.0 | 6062.1 | 6097.1 | 6088.3 | 6097.1 | 6101.4 |
| 5463.1  | 10°   | 5596.5  | 5734.2  | 5926.6 | 6051.2 | 6114.6 | 6116.7 | 6108.0 | 6077.4 | 6062.1 | 6064.3 |
| 5502.4  | 12.5° | 5664.2  | 5817.2  | 6024.9 | 6129.9 | 6147.4 | 6099.3 | 6062.1 | 6009.6 | 5990.0 | 5981.2 |
| 5561.5  | 15°   | 5756.0  | 5930.9  | 6132.0 | 6171.4 | 6127.7 | 6066.5 | 6003.1 | 5917.8 | 5874.1 | 5839.1 |
| 5662.0  | 17.5° | 5867.5  | 6059.9  | 6215.1 | 6186.7 | 6092.7 | 5992.1 | 5889.4 | 5760.4 | 5670.8 | 5633.6 |
| 5799.8  | 20°   | 6022.7  | 6195.4  | 6278.5 | 6153.9 | 6011.8 | 5858.8 | 5683.9 | 5526.5 | 5443.4 | 5406.3 |
| 5974.6  | 22.5° | 6210.7  | 6376.9  | 6339.7 | 6097.1 | 5895.9 | 5651.1 | 5432.5 | 5316.6 | 5275.1 | 5248.9 |
| 6199.8  | 25°   | 6435.9  | 6578.0  | 6383.5 | 6014.0 | 5705.8 | 5375.7 | 5207.3 | 5170.2 | 5150.5 | 5130.8 |
| 6475.3  | 27.5° | 6728.9  | 6805.4  | 6416.2 | 5891.6 | 5408.4 | 5082.7 | 5021.5 | 5028.1 | 5021.5 | 4988.7 |
| 6857.8  | 30°   | 7115.8  | 7100.5  | 6446.8 | 5692.6 | 5067.4 | 4818.2 | 4822.6 | 4851.0 | 4855.4 | 4833.5 |
| 7391.3  | 32.5° | 7625.2  | 7470.0  | 6462.2 | 5434.7 | 4741.7 | 4586.5 | 4590.8 | 4621.4 | 4643.3 | 4606.1 |
| 8088.6  | 35°   | 8241.6  | 7900.6  | 6438.1 | 5111.1 | 4490.3 | 4365.7 | 4332.9 | 4341.6 | 4348.2 | 4313.2 |
| 8934.6  | 37.5° | 8960.9  | 8383.7  | 6331.0 | 4752.6 | 4282.6 | 4149.2 | 4079.3 | 4020.3 | 3985.3 | 3952.5 |
| 9892.2  | 40°   | 9750.1  | 8910.6  | 6134.2 | 4402.8 | 4050.9 | 3919.7 | 3814.8 | 3703.3 | 3585.2 | 3541.5 |
| 10906.5 | 42.5° | 10576.4 | 9452.8  | 5895.9 | 4068.4 | 3784.2 | 3677.0 | 3565.6 | 3403.8 | 3226.7 | 3137.1 |
| 11960.2 | 45°   | 11433.4 | 10008.0 | 5662.0 | 3738.3 | 3510.9 | 3465.0 | 3336.0 | 3141.4 | 2949.1 | 2835.4 |
| 13016.1 | 47.5° | 12272.8 | 10532.7 | 5318.8 | 3406.0 | 3255.1 | 3305.4 | 3204.8 | 3025.6 | 2811.3 | 2632.1 |
| 14063.3 | 50°   | 13075.1 | 11024.6 | 4757.0 | 3069.3 | 3047.4 | 3257.3 | 3161.1 | 2903.2 | 2658.3 | 2428.8 |
| 15090.7 | 52.5° | 13870.9 | 11422.4 | 4037.8 | 2763.2 | 2936.0 | 3244.2 | 3104.3 | 2820.1 | 2520.6 | 2280.1 |
| 16057.0 | 55°   | 14546.4 | 11627.9 | 3344.8 | 2500.9 | 2774.2 | 3132.7 | 3036.5 | 2721.7 | 2326.0 | 2070.2 |
| 16719.4 | 57.5° | 14931.2 | 11461.8 | 2767.6 | 2243.0 | 2551.2 | 2949.1 | 2920.6 | 2511.8 | 2094.3 | 1897.5 |
| 16848.4 | 60°   | 14765.0 | 10788.5 | 2295.4 | 2017.8 | 2339.1 | 2750.1 | 2719.5 | 2304.2 | 1917.2 | 1731.4 |
| 16157.6 | 62.5° | 13849.0 | 9505.2  | 1921.6 | 1821.0 | 2146.8 | 2546.8 | 2518.4 | 2144.6 | 1781.7 | 1602.4 |
| 14323.4 | 65°   | 12004.0 | 7732.3  | 1630.8 | 1657.1 | 1952.2 | 2302.0 | 2343.5 | 2011.2 | 1674.6 | 1499.7 |
| 11081.4 | 67.5° | 9155.4  | 5600.8  | 1403.5 | 1515.0 | 1762.0 | 2061.5 | 2181.7 | 1915.0 | 1584.9 | 1418.8 |
| 6411.9  | 70°   | 5218.3  | 3180.8  | 1211.1 | 1377.3 | 1593.7 | 1838.5 | 2057.1 | 1838.5 | 1488.7 | 1351.0 |
| 2402.5  | 72.5° | 1978.4  | 1460.3  | 1047.1 | 1239.5 | 1431.9 | 1650.5 | 1919.4 | 1718.3 | 1377.3 | 1274.5 |
| 1241.7  | 75°   | 1055.9  | 889.7   | 881.0  | 1077.8 | 1246.1 | 1466.9 | 1746.7 | 1600.2 | 1294.2 | 1346.6 |
| 859.1   | 77.5° | 719.2   | 629.6   | 736.7  | 922.5  | 1042.8 | 1263.6 | 1563.1 | 1421.0 | 1121.5 | 1117.1 |
| 594.6   | 80°   | 498.4   | 446.0   | 599.0  | 743.3  | 806.7  | 1062.5 | 1364.1 | 1219.9 | 913.8  | 852.6  |
| 367.3   | 82.5° | 299.5   | 290.8   | 448.2  | 555.3  | 570.6  | 819.8  | 1130.2 | 1023.1 | 747.7  | 651.5  |
| 218.6   | 85°   | 164.0   | 172.7   | 286.4  | 325.7  | 332.3  | 572.8  | 885.4  | 791.4  | 574.9  | 483.1  |
| 78.7    | 87.5° | 45.9    | 59.0    | 104.9  | 129.0  | 159.6  | 297.3  | 526.9  | 470.0  | 288.6  | 201.1  |
| 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°   |
|--------|
| 5388.8 |
| 5784.5 |
| 6035.9 |
| 6108.0 |
| 6068.7 |
| 5976.8 |
| 5850.0 |
| 5635.8 |
| 5401.9 |
| 5253.2 |
| 5130.8 |
| 4995.3 |
| 4844.4 |
| 4623.6 |
| 4337.2 |
| 3974.4 |
| 3561.2 |
| 3148.0 |
| 2826.6 |
| 2612.4 |
| 2409.1 |
| 2253.9 |
| 2048.4 |
| 1871.3 |
| 1705.2 |
| 1574.0 |
| 1471.3 |
| 1392.6 |
| 1333.5 |
| 1257.0 |
| 1390.4 |
| 1029.7 |
| 815.4  |
| 655.8  |
| 487.5  |
| 201.1  |
| 0.0    |