

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: P943207

Luminaire Tested: **GLAN-SB7C-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7C-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46344 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 350.5  
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

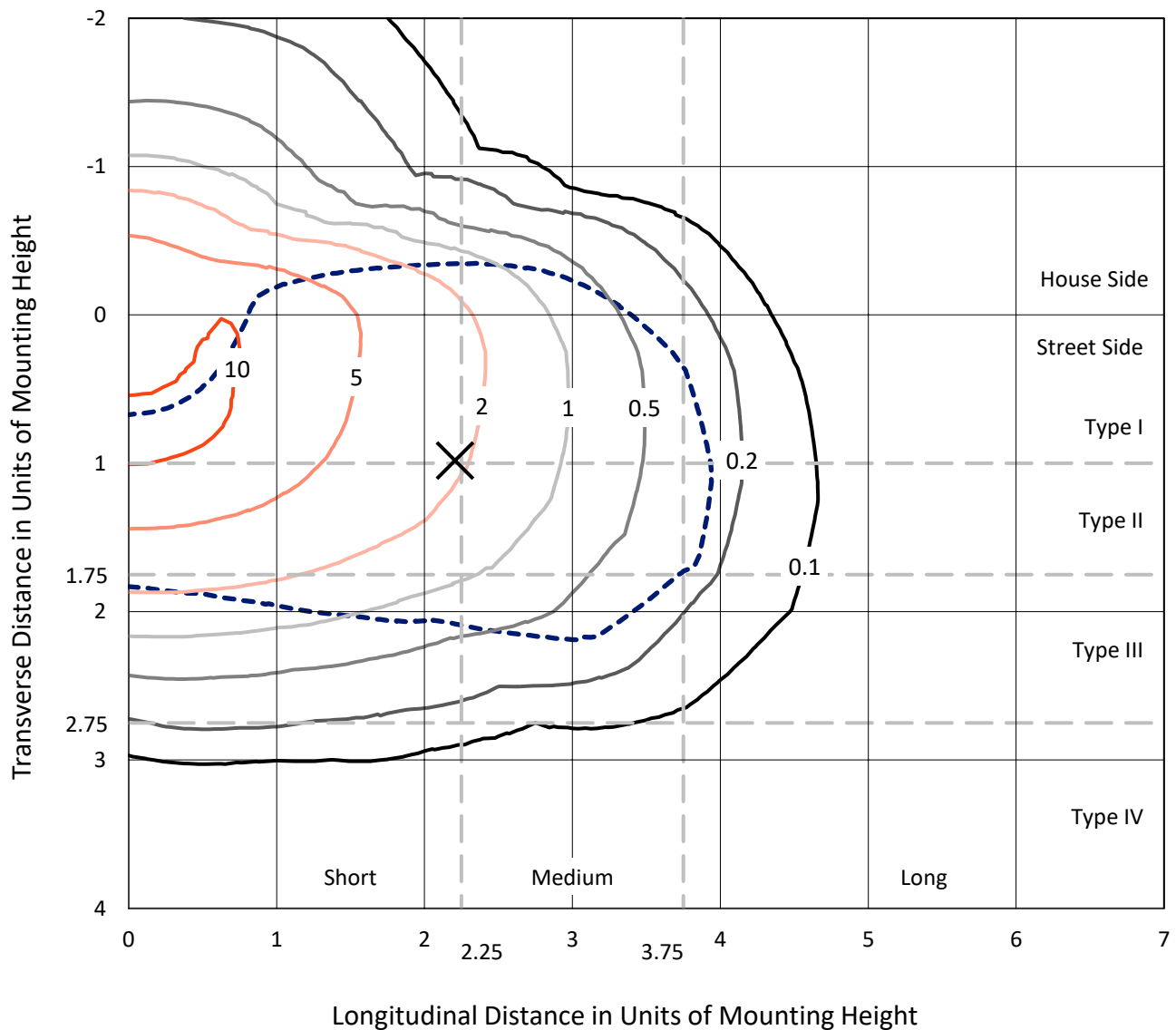


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

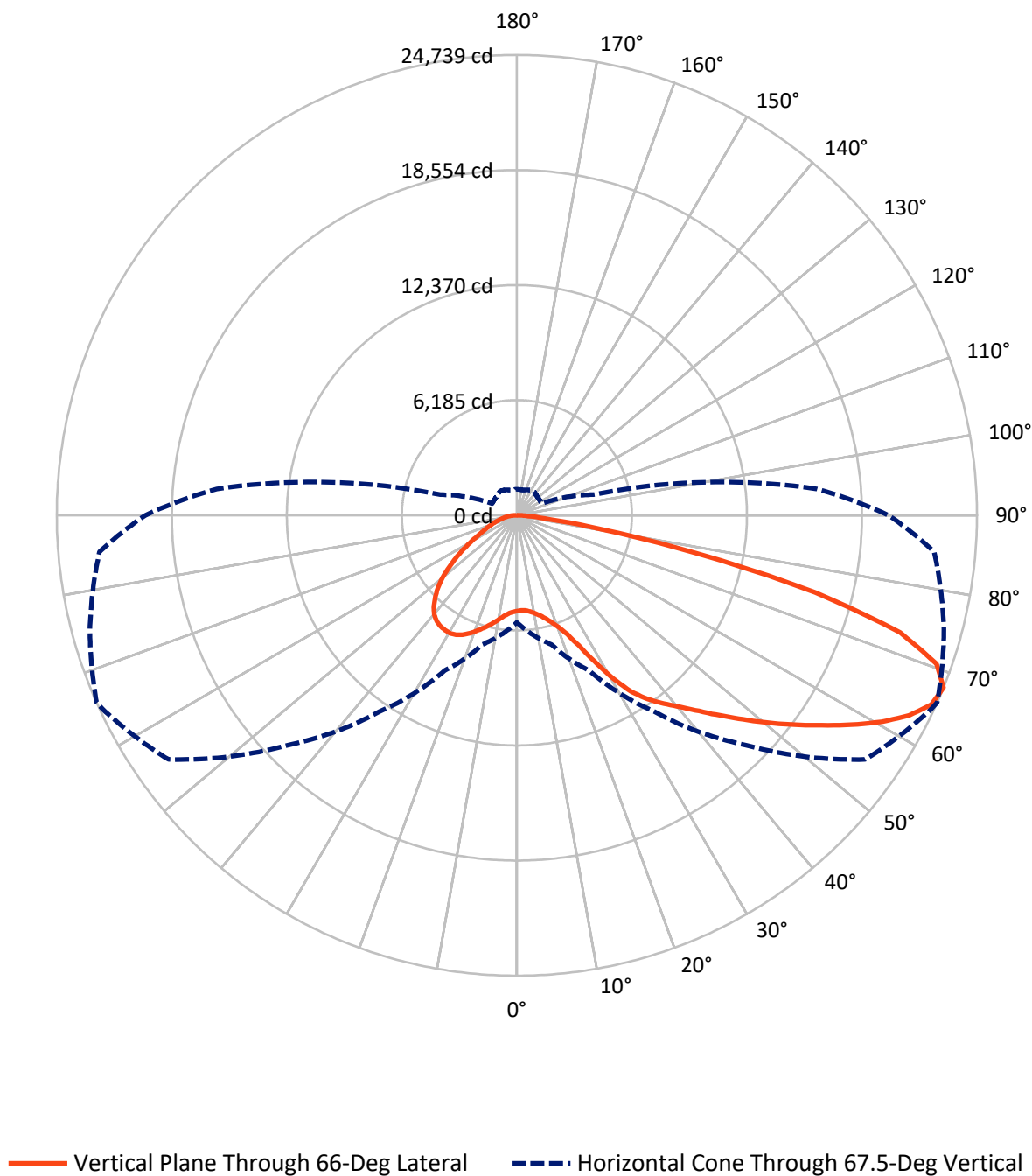


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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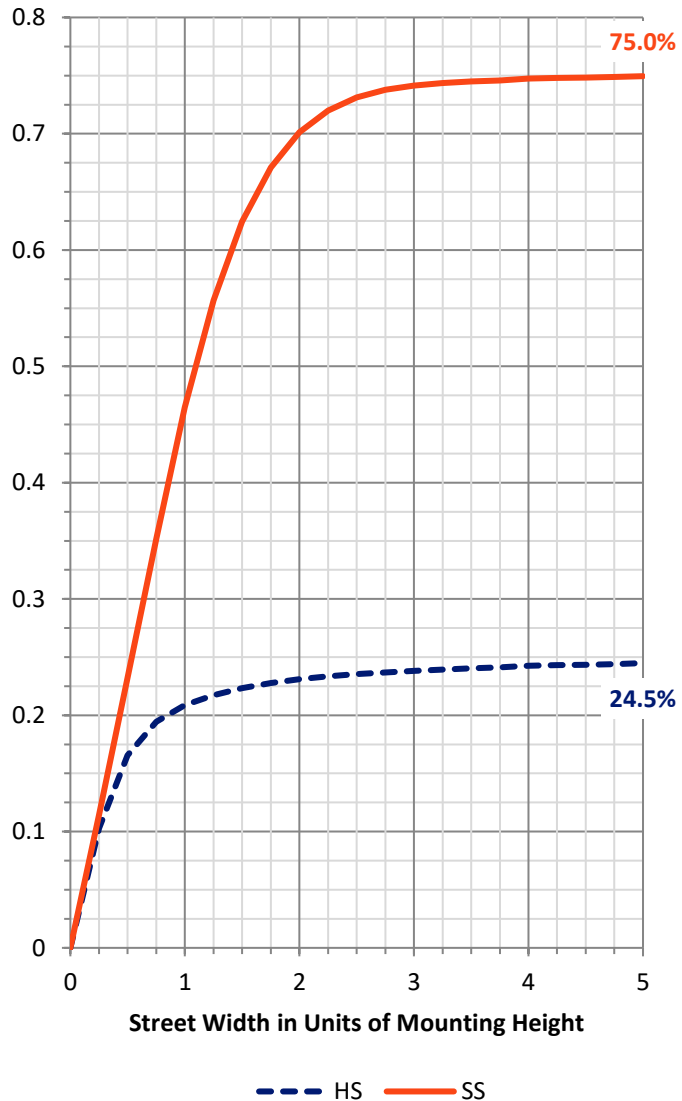
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11523.3  | 0.0    | 11523.3 |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 34820.7  | 0.0    | 34820.7 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 46344.0  | 0.0    | 46344.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 509.6   | 1.1       |
| 10°-20°   | 1683.7  | 3.6       |
| 20°-30°   | 3245.3  | 7.0       |
| 30°-40°   | 5690.2  | 12.3      |
| 40°-50°   | 8459.5  | 18.3      |
| 50°-60°   | 10723.3 | 23.1      |
| 60°-70°   | 10492.4 | 22.6      |
| 70°-80°   | 5005.0  | 10.8      |
| 80°-90°   | 534.9   | 1.2       |
| 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°    | 46344.0 | 100.0     |
| 0°-180°   | 46344.0 | 100.0     |

**Coefficient of Utilization**



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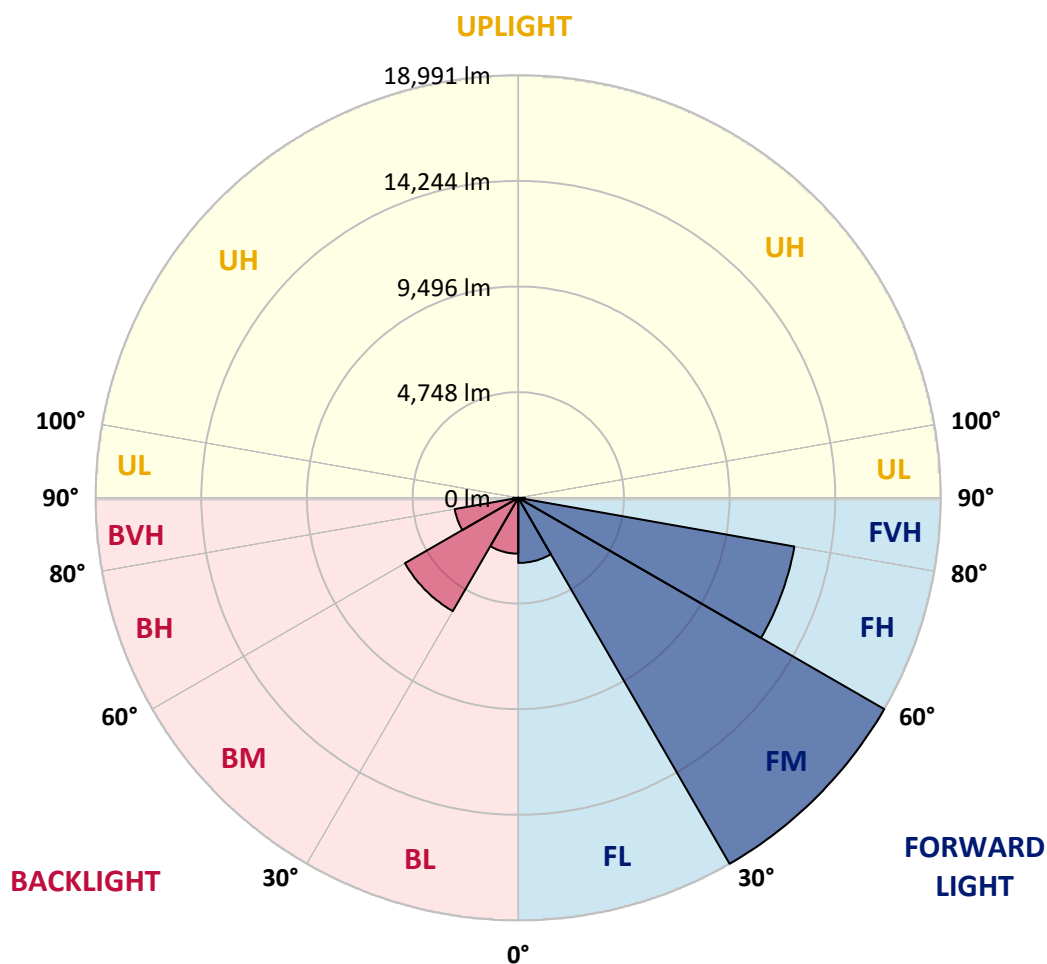
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2928.5  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 18991.4 | 41.0      |                         |      |         |
| FH   | (60°-80°)   | 12597.6 | 27.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 303.3   | 0.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2510.2  | 5.4       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5881.6  | 12.7      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2899.9  | 6.3       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 231.6   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5140.2  | 5140.2  | 5140.2  | 5140.2  | 5140.2  | 5140.2  | 5140.2  | 5140.2  | 5140.2  | 5140.2  |
| 2.5°  | 5086.6  | 5115.8  | 5108.5  | 5096.3  | 5093.9  | 5098.8  | 5106.1  | 5113.4  | 5110.9  | 5123.1  |
| 5°    | 5072.0  | 5101.2  | 5098.8  | 5098.8  | 5108.5  | 5128.0  | 5140.2  | 5152.3  | 5140.2  | 5154.8  |
| 7.5°  | 5081.7  | 5103.6  | 5113.4  | 5123.1  | 5147.5  | 5184.0  | 5213.2  | 5240.0  | 5225.4  | 5242.4  |
| 10°   | 5205.9  | 5223.0  | 5232.7  | 5232.7  | 5249.7  | 5291.1  | 5320.3  | 5369.0  | 5356.9  | 5383.7  |
| 12.5° | 5432.4  | 5449.4  | 5449.4  | 5439.7  | 5451.8  | 5478.6  | 5488.4  | 5541.9  | 5520.0  | 5563.8  |
| 15°   | 5709.9  | 5744.0  | 5717.2  | 5700.2  | 5705.1  | 5731.9  | 5729.4  | 5770.8  | 5748.9  | 5785.4  |
| 17.5° | 6016.7  | 6060.6  | 6016.7  | 6014.3  | 6004.6  | 6033.8  | 6036.2  | 6072.7  | 6033.8  | 6060.6  |
| 20°   | 6379.5  | 6440.4  | 6403.9  | 6416.1  | 6394.2  | 6406.3  | 6418.5  | 6472.1  | 6411.2  | 6430.7  |
| 22.5° | 6890.9  | 6963.9  | 6925.0  | 6971.2  | 6956.6  | 6946.9  | 6944.5  | 7039.4  | 6944.5  | 6951.8  |
| 25°   | 7636.0  | 7723.6  | 7655.5  | 7718.8  | 7718.8  | 7750.4  | 7786.9  | 7908.7  | 7750.4  | 7704.2  |
| 27.5° | 8736.6  | 8824.2  | 8690.3  | 8729.3  | 8717.1  | 8795.0  | 8756.1  | 9058.0  | 8887.5  | 8812.1  |
| 30°   | 10061.2 | 10217.0 | 9963.8  | 9954.0  | 9941.9  | 10066.0 | 10122.1 | 10321.7 | 10148.8 | 10073.4 |
| 32.5° | 11492.9 | 11656.1 | 11354.1 | 11266.5 | 11220.2 | 11295.7 | 11249.4 | 11410.1 | 11290.8 | 11173.9 |
| 35°   | 13007.5 | 13168.2 | 12880.8 | 12710.4 | 12525.3 | 12367.1 | 12201.5 | 12242.9 | 12130.9 | 11953.1 |
| 37.5° | 14439.2 | 14733.8 | 14429.5 | 14246.8 | 13906.0 | 13596.7 | 13134.1 | 12941.7 | 12837.0 | 12673.9 |
| 40°   | 15897.7 | 16065.7 | 15834.4 | 15678.6 | 15308.5 | 14823.9 | 14083.7 | 13677.1 | 13535.8 | 13377.6 |
| 42.5° | 16971.5 | 17132.3 | 17008.1 | 16900.9 | 16611.2 | 16048.7 | 15091.8 | 14582.9 | 14378.3 | 14200.6 |
| 45°   | 17823.8 | 17943.1 | 17865.2 | 17904.1 | 17779.9 | 17234.5 | 16136.4 | 15554.4 | 15342.6 | 15125.9 |
| 47.5° | 18167.1 | 18293.7 | 18417.9 | 18649.2 | 18861.1 | 18459.3 | 17258.9 | 16606.3 | 16382.3 | 16160.7 |
| 50°   | 18128.1 | 18257.2 | 18617.6 | 19109.4 | 19766.9 | 19632.9 | 18442.2 | 17726.4 | 17519.4 | 17266.2 |
| 52.5° | 17816.5 | 17962.6 | 18425.2 | 19243.3 | 20290.4 | 20511.9 | 19647.5 | 18883.0 | 18688.2 | 18386.2 |
| 55°   | 16998.3 | 17086.0 | 17779.9 | 18939.0 | 20414.6 | 21125.6 | 20828.5 | 20115.1 | 19920.3 | 19499.0 |
| 57.5° | 15481.4 | 15608.0 | 16618.5 | 18118.4 | 20102.9 | 21541.9 | 21865.8 | 21410.4 | 21223.0 | 20616.7 |
| 60°   | 13501.8 | 13703.9 | 14860.4 | 16740.2 | 19309.1 | 21539.5 | 22808.1 | 22683.9 | 22528.1 | 21717.2 |
| 62.5° | 11261.6 | 11495.4 | 12608.1 | 14792.3 | 17921.2 | 20928.3 | 23397.4 | 23750.4 | 23670.1 | 22732.6 |
| 65°   | 8648.9  | 8809.6  | 9917.5  | 12272.1 | 15761.4 | 19615.9 | 23465.5 | 24478.5 | 24493.1 | 23504.5 |
| 67.5° | 5758.6  | 6221.3  | 7183.1  | 9208.9  | 12868.7 | 17470.7 | 22866.5 | 24597.8 | 24739.0 | 23769.9 |
| 70°   | 2809.9  | 3418.7  | 4361.0  | 5985.1  | 9208.9  | 14181.1 | 21300.9 | 23618.9 | 23933.0 | 22995.6 |
| 72.5° | 1166.3  | 1363.6  | 1877.3  | 2953.6  | 5286.3  | 9569.3  | 18154.9 | 20964.8 | 21546.8 | 20375.6 |
| 75°   | 786.5   | 852.2   | 1073.8  | 1514.5  | 2408.2  | 4718.9  | 13092.7 | 15632.3 | 16569.8 | 15388.8 |
| 77.5° | 606.3   | 647.7   | 781.6   | 1059.2  | 1431.7  | 1784.8  | 7007.8  | 9420.8  | 9905.3  | 9170.0  |
| 80°   | 477.2   | 508.9   | 584.4   | 771.9   | 1015.4  | 954.5   | 2388.7  | 4268.5  | 4548.5  | 3815.6  |
| 82.5° | 413.9   | 426.1   | 418.8   | 523.5   | 674.5   | 557.6   | 784.1   | 1575.4  | 1738.5  | 1261.3  |
| 85°   | 299.5   | 333.6   | 348.2   | 323.8   | 357.9   | 282.5   | 321.4   | 557.6   | 613.6   | 547.9   |
| 87.5° | 121.7   | 180.2   | 221.6   | 209.4   | 131.5   | 80.4    | 99.8    | 163.1   | 187.5   | 204.5   |
| 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°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5140.2  | 0°    | 5140.2  | 5140.2  | 5140.2  | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 | 5140.2 |
| 5142.6  | 2.5°  | 5145.0  | 5162.1  | 5174.3  | 5188.9 | 5198.6 | 5213.2 | 5242.4 | 5259.5 | 5261.9 | 5274.1 |
| 5181.6  | 5°    | 5191.3  | 5215.6  | 5242.4  | 5281.4 | 5325.2 | 5361.7 | 5417.7 | 5456.7 | 5471.3 | 5483.5 |
| 5276.5  | 7.5°  | 5291.1  | 5325.2  | 5373.9  | 5442.1 | 5505.4 | 5554.1 | 5622.3 | 5668.5 | 5714.8 | 5731.9 |
| 5427.5  | 10°   | 5439.7  | 5488.4  | 5559.0  | 5651.5 | 5719.7 | 5783.0 | 5853.6 | 5892.6 | 5938.8 | 5958.3 |
| 5607.7  | 12.5° | 5624.7  | 5675.8  | 5768.4  | 5897.4 | 5960.7 | 6004.6 | 6028.9 | 6019.2 | 6028.9 | 6046.0 |
| 5824.4  | 15°   | 5836.6  | 5892.6  | 5997.3  | 6136.1 | 6179.9 | 6140.9 | 6087.4 | 6038.7 | 6031.4 | 6036.2 |
| 6087.4  | 17.5° | 6087.4  | 6128.7  | 6250.5  | 6367.4 | 6335.7 | 6175.0 | 6058.1 | 5980.2 | 5941.3 | 5929.1 |
| 6423.4  | 20°   | 6438.0  | 6438.0  | 6537.8  | 6610.9 | 6399.0 | 6126.3 | 5943.7 | 5817.1 | 5736.7 | 5702.6 |
| 6881.1  | 22.5° | 6864.1  | 6825.1  | 6888.5  | 6837.3 | 6386.9 | 5990.0 | 5736.7 | 5517.6 | 5395.8 | 5347.1 |
| 7521.5  | 25°   | 7404.7  | 7358.4  | 7341.3  | 7024.8 | 6299.2 | 5773.2 | 5361.7 | 5096.3 | 4989.2 | 4962.4 |
| 8444.4  | 27.5° | 8220.4  | 8103.5  | 7881.9  | 7127.1 | 6138.5 | 5432.4 | 4923.5 | 4677.5 | 4616.6 | 4619.1 |
| 9630.2  | 30°   | 9306.3  | 9072.6  | 8529.6  | 7144.1 | 5875.5 | 4950.2 | 4475.4 | 4300.1 | 4270.9 | 4283.1 |
| 10626.1 | 32.5° | 10312.0 | 10090.4 | 9191.9  | 7066.2 | 5471.3 | 4477.9 | 4073.7 | 3956.8 | 3913.0 | 3927.6 |
| 11385.8 | 35°   | 11100.9 | 11040.0 | 9805.5  | 6956.6 | 4974.6 | 4034.7 | 3713.3 | 3613.5 | 3528.2 | 3508.8 |
| 12101.7 | 37.5° | 11846.0 | 11821.6 | 10265.7 | 6803.2 | 4482.7 | 3720.6 | 3423.5 | 3292.0 | 3167.9 | 3099.7 |
| 12893.0 | 40°   | 12664.1 | 12639.8 | 10567.6 | 6567.0 | 4046.9 | 3447.9 | 3163.0 | 2990.1 | 2836.7 | 2712.5 |
| 13789.1 | 42.5° | 13584.5 | 13440.9 | 10711.3 | 6228.6 | 3676.8 | 3216.6 | 2951.1 | 2717.4 | 2515.3 | 2400.9 |
| 14802.0 | 45°   | 14590.2 | 14266.3 | 10708.9 | 5797.6 | 3365.1 | 3004.7 | 2724.7 | 2393.5 | 2206.1 | 2098.9 |
| 15841.7 | 47.5° | 15656.7 | 15055.2 | 10577.4 | 5320.3 | 3063.2 | 2771.0 | 2374.1 | 2120.8 | 1996.7 | 1930.9 |
| 16971.5 | 50°   | 16757.3 | 15793.0 | 10353.4 | 4772.5 | 2753.9 | 2505.6 | 2154.9 | 1982.0 | 1887.1 | 1826.2 |
| 18091.6 | 52.5° | 17792.1 | 16462.6 | 10083.1 | 4151.6 | 2439.8 | 2247.5 | 2057.5 | 1923.6 | 1823.8 | 1755.6 |
| 19177.6 | 55°   | 18753.9 | 17039.7 | 9700.8  | 3516.1 | 2184.1 | 2074.6 | 2011.3 | 1899.3 | 1784.8 | 1704.5 |
| 20280.6 | 57.5° | 19608.6 | 17414.7 | 9040.9  | 2919.5 | 2001.5 | 1955.3 | 1962.6 | 1857.9 | 1726.4 | 1658.2 |
| 21366.6 | 60°   | 20319.6 | 17689.9 | 8064.5  | 2366.8 | 1853.0 | 1838.4 | 1887.1 | 1779.9 | 1626.5 | 1548.6 |
| 22284.6 | 62.5° | 20745.7 | 17685.0 | 6866.5  | 1938.2 | 1726.4 | 1731.2 | 1787.2 | 1682.5 | 1526.7 | 1453.7 |
| 22764.3 | 65°   | 20709.2 | 17251.6 | 5551.7  | 1658.2 | 1604.6 | 1609.5 | 1682.5 | 1575.4 | 1443.9 | 1400.1 |
| 22523.2 | 67.5° | 19976.3 | 16194.8 | 4258.7  | 1475.6 | 1470.7 | 1492.6 | 1577.8 | 1502.4 | 1392.8 | 1387.9 |
| 21086.6 | 70°   | 17991.8 | 14000.9 | 3068.0  | 1329.5 | 1331.9 | 1363.6 | 1475.6 | 1456.1 | 1366.0 | 1375.7 |
| 17728.8 | 72.5° | 14427.0 | 10674.8 | 2060.0  | 1176.1 | 1178.5 | 1229.6 | 1378.2 | 1419.6 | 1339.2 | 1468.3 |
| 12578.9 | 75°   | 9608.3  | 6657.1  | 1324.6  | 1012.9 | 1015.4 | 1081.1 | 1293.0 | 1349.0 | 1266.2 | 1463.4 |
| 6545.1  | 77.5° | 4616.6  | 2992.5  | 959.4   | 852.2  | 852.2  | 913.1  | 1117.6 | 1207.7 | 1078.7 | 1137.1 |
| 2103.8  | 80°   | 1594.9  | 1124.9  | 754.8   | 686.7  | 672.0  | 713.4  | 942.3  | 1047.0 | 930.1  | 857.1  |
| 686.7   | 82.5° | 628.2   | 584.4   | 606.3   | 533.3  | 484.6  | 511.3  | 732.9  | 864.4  | 684.2  | 618.5  |
| 387.2   | 85°   | 360.4   | 379.9   | 428.5   | 353.1  | 280.0  | 314.1  | 538.1  | 620.9  | 516.2  | 455.3  |
| 126.6   | 87.5° | 97.4    | 133.9   | 197.2   | 182.6  | 126.6  | 133.9  | 255.7  | 343.3  | 297.1  | 228.9  |
| 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°   |
|--------|
| 5140.2 |
| 5271.6 |
| 5481.1 |
| 5734.3 |
| 5968.0 |
| 6050.8 |
| 6053.3 |
| 5946.1 |
| 5695.3 |
| 5339.8 |
| 4967.3 |
| 4626.4 |
| 4324.5 |
| 3947.0 |
| 3523.4 |
| 3102.1 |
| 2724.7 |
| 2408.2 |
| 2094.0 |
| 1916.3 |
| 1804.3 |
| 1726.4 |
| 1672.8 |
| 1614.4 |
| 1514.5 |
| 1431.7 |
| 1397.7 |
| 1395.2 |
| 1373.3 |
| 1487.7 |
| 1475.6 |
| 1042.2 |
| 803.5  |
| 616.0  |
| 465.1  |
| 236.2  |
| 0.0    |