

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: P943888

Luminaire Tested: **GLAN-SB8C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P943888  
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-SB8C-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA 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: 39871 lumens  
Efficiency: N/A  
Efficacy: 99.7 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): 399.8  
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



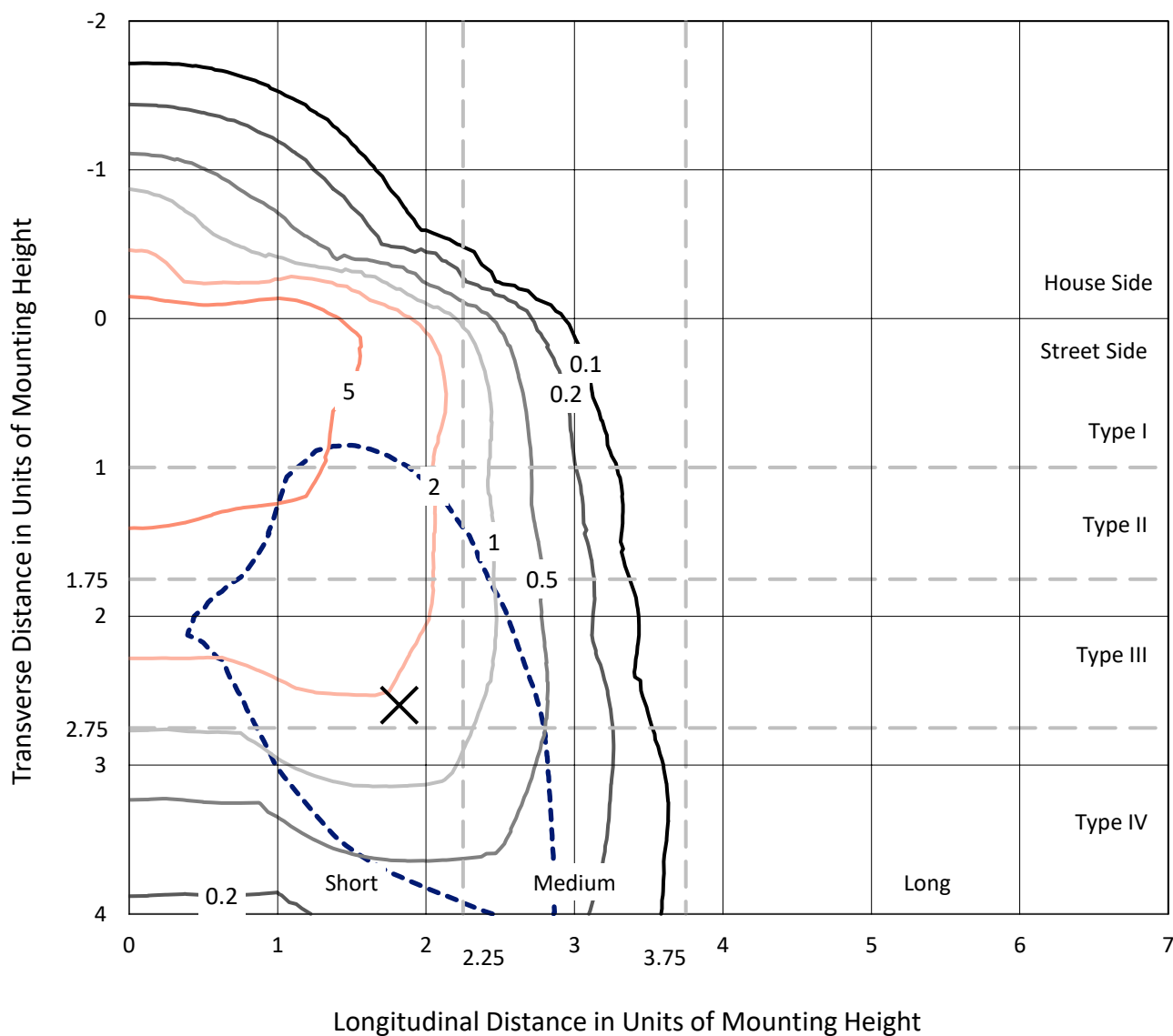
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

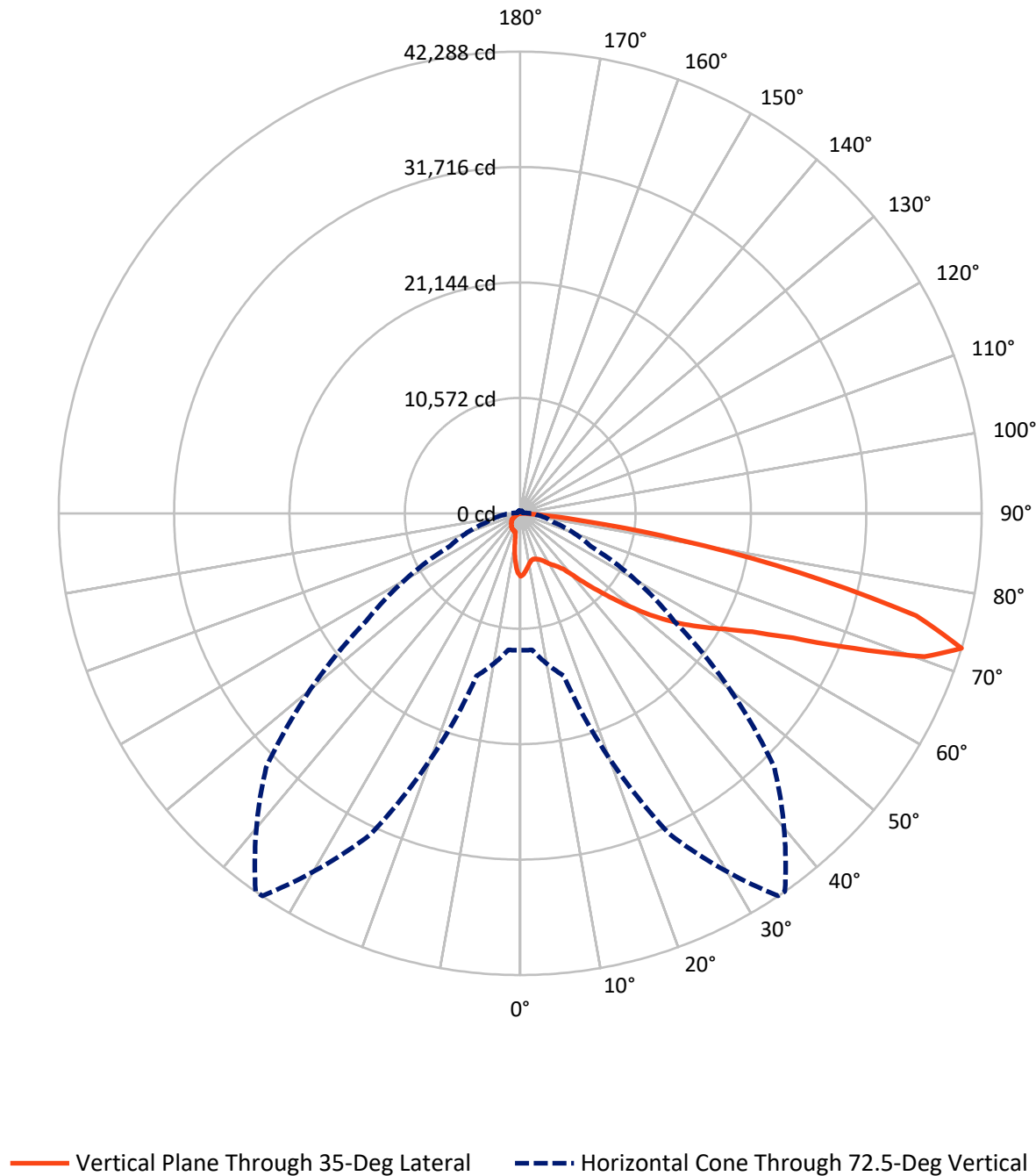


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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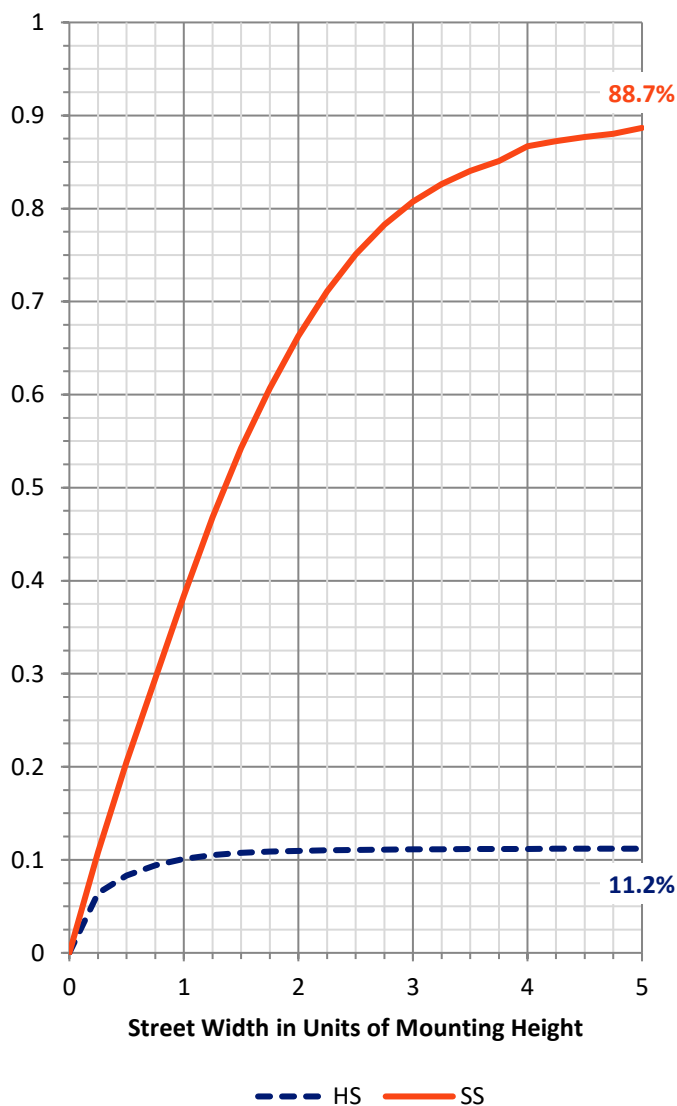
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4487.3   | 0.0    | 4487.3  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 35383.7  | 0.0    | 35383.7 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 39871.0  | 0.0    | 39871.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 474.8   | 1.2       |
| 10°-20°   | 1110.9  | 2.8       |
| 20°-30°   | 1804.6  | 4.5       |
| 30°-40°   | 3010.9  | 7.6       |
| 40°-50°   | 5696.7  | 14.3      |
| 50°-60°   | 9052.0  | 22.7      |
| 60°-70°   | 11197.9 | 28.1      |
| 70°-80°   | 6960.7  | 17.5      |
| 80°-90°   | 562.5   | 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°    | 39871.0 | 100.0     |
| 0°-180°   | 39871.0 | 100.0     |

**Coefficient of Utilization**



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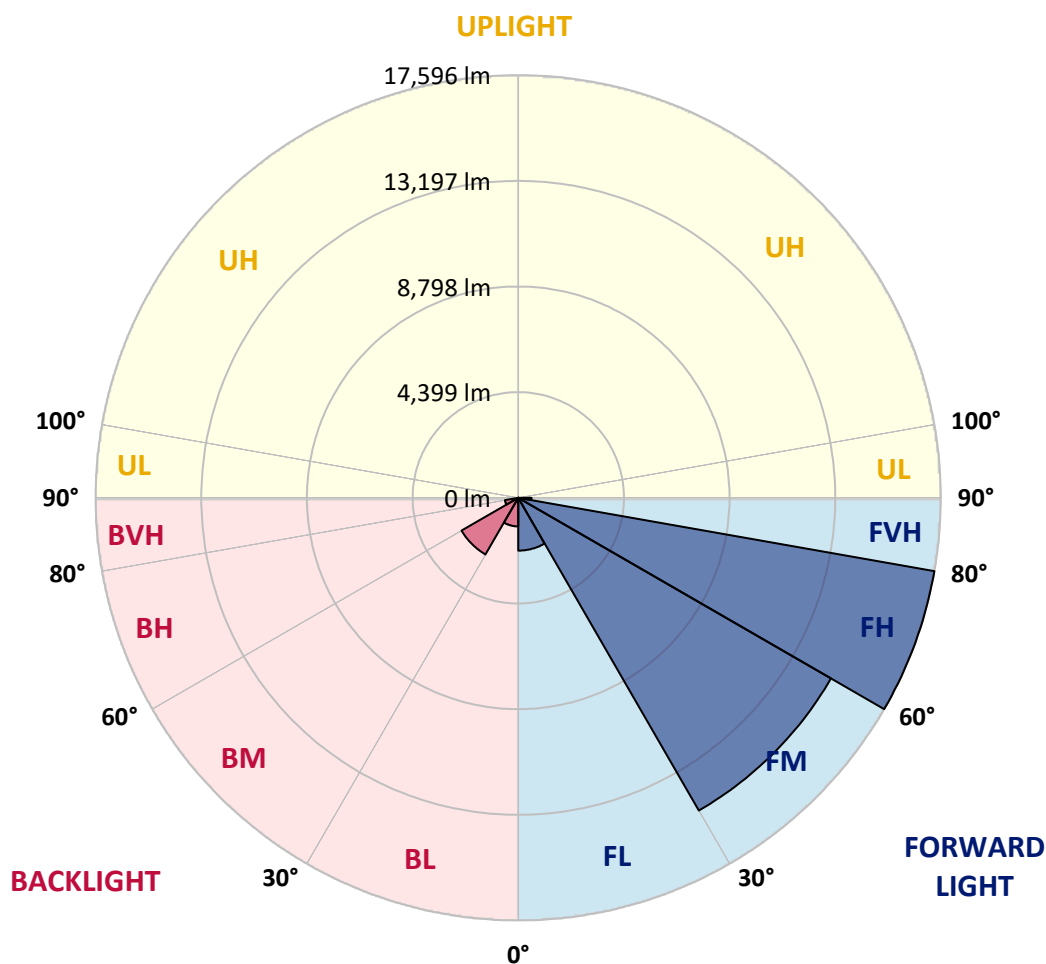
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2197.9  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 15035.4 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 17595.6 | 44.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 554.9   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1192.4  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2724.2  | 6.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 563.1   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 7.7     | 0.0       |                         |      | G0/10   |
| 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°    | 5778.6  | 5778.6  | 5778.6  | 5778.6  | 5778.6  | 5778.6  | 5778.6  | 5778.6  | 5778.6  | 5778.6  |
| 2.5°  | 5521.6  | 5568.3  | 5577.1  | 5591.7  | 5591.7  | 5609.2  | 5638.4  | 5679.3  | 5746.5  | 5781.6  |
| 5°    | 5089.2  | 5124.2  | 5168.1  | 5203.1  | 5270.3  | 5279.1  | 5393.0  | 5504.0  | 5658.9  | 5775.7  |
| 7.5°  | 4653.9  | 4694.8  | 4753.2  | 4837.9  | 4925.6  | 4951.9  | 5124.2  | 5311.2  | 5556.6  | 5775.7  |
| 10°   | 4347.1  | 4350.1  | 4402.6  | 4487.4  | 4627.6  | 4659.7  | 4870.1  | 5135.9  | 5442.7  | 5740.7  |
| 12.5° | 4174.8  | 4195.2  | 4218.6  | 4282.9  | 4417.2  | 4437.7  | 4662.6  | 4975.2  | 5328.7  | 5720.2  |
| 15°   | 4174.8  | 4189.4  | 4204.0  | 4236.1  | 4344.2  | 4361.7  | 4560.4  | 4873.0  | 5270.3  | 5729.0  |
| 17.5° | 4218.6  | 4242.0  | 4230.3  | 4268.3  | 4382.2  | 4393.9  | 4569.2  | 4843.8  | 5267.4  | 5784.5  |
| 20°   | 4323.8  | 4341.3  | 4317.9  | 4341.3  | 4455.2  | 4478.6  | 4659.7  | 4899.3  | 5317.1  | 5880.9  |
| 22.5° | 4490.3  | 4499.0  | 4443.5  | 4461.1  | 4577.9  | 4607.1  | 4817.5  | 5057.0  | 5436.8  | 6035.7  |
| 25°   | 4700.6  | 4718.2  | 4633.4  | 4653.9  | 4764.9  | 4800.0  | 5042.4  | 5293.7  | 5626.7  | 6249.0  |
| 27.5° | 4943.1  | 4951.9  | 4878.8  | 4875.9  | 5019.1  | 5068.7  | 5314.1  | 5585.8  | 5880.9  | 6517.8  |
| 30°   | 5220.6  | 5246.9  | 5176.8  | 5165.1  | 5346.3  | 5387.2  | 5629.7  | 5945.2  | 6254.8  | 6920.9  |
| 32.5° | 5439.8  | 5460.2  | 5419.3  | 5448.5  | 5632.6  | 5664.7  | 6012.4  | 6453.5  | 6842.1  | 7493.5  |
| 35°   | 5755.3  | 5767.0  | 5673.5  | 5726.1  | 5936.4  | 6018.2  | 6535.3  | 7166.3  | 7581.2  | 8212.2  |
| 37.5° | 6897.6  | 6897.6  | 6500.2  | 6240.2  | 6441.8  | 6514.9  | 7251.1  | 8063.2  | 8492.7  | 9176.3  |
| 40°   | 8478.1  | 8451.8  | 7870.4  | 7338.7  | 7312.4  | 7455.6  | 8270.6  | 9193.8  | 9670.0  | 10333.2 |
| 42.5° | 10163.8 | 10122.9 | 9331.1  | 8805.3  | 8717.6  | 8767.3  | 9448.0  | 10587.4 | 11072.3 | 11744.3 |
| 45°   | 11659.5 | 11647.9 | 10923.3 | 10216.3 | 10058.6 | 10216.3 | 10917.5 | 12217.5 | 12565.2 | 13272.2 |
| 47.5° | 12912.8 | 12912.8 | 12384.1 | 11922.5 | 11840.7 | 11934.2 | 12907.0 | 14025.9 | 13993.8 | 14899.4 |
| 50°   | 14356.0 | 14344.4 | 13841.9 | 13643.2 | 13727.9 | 13859.4 | 15197.4 | 15930.7 | 15472.0 | 16497.5 |
| 52.5° | 15366.9 | 15437.0 | 15264.6 | 15232.5 | 15664.9 | 15892.7 | 17522.9 | 17794.6 | 16795.5 | 18013.7 |
| 55°   | 16167.4 | 16249.2 | 16447.8 | 16672.8 | 17505.4 | 17803.4 | 19775.4 | 19562.1 | 17902.7 | 19328.4 |
| 57.5° | 17300.9 | 17184.0 | 17490.8 | 17934.8 | 19281.6 | 19641.0 | 21957.7 | 21230.2 | 18793.7 | 20394.7 |
| 60°   | 18676.9 | 18694.4 | 18747.0 | 19307.9 | 21055.0 | 21516.5 | 24107.9 | 22807.8 | 19366.3 | 21049.1 |
| 62.5° | 20330.4 | 20356.7 | 20464.8 | 21326.6 | 23435.9 | 23871.2 | 26398.3 | 24099.1 | 19629.3 | 20865.1 |
| 65°   | 20216.5 | 20327.5 | 21534.1 | 24481.8 | 27055.6 | 27485.1 | 29071.4 | 25004.8 | 19232.0 | 19182.3 |
| 67.5° | 18416.9 | 18598.0 | 20616.7 | 28250.5 | 32512.9 | 32992.0 | 32302.6 | 25183.0 | 17517.1 | 14917.0 |
| 70°   | 16056.3 | 16120.6 | 18548.3 | 31639.4 | 38832.0 | 39317.0 | 35194.8 | 23222.7 | 13292.6 | 8320.3  |
| 72.5° | 12538.9 | 12553.5 | 15401.9 | 32425.3 | 42261.8 | 42288.1 | 32924.8 | 17239.5 | 7148.8  | 3196.1  |
| 75°   | 8957.2  | 8869.5  | 10315.7 | 26296.0 | 37181.4 | 37479.4 | 24683.4 | 8086.6  | 2731.6  | 1510.4  |
| 77.5° | 4802.9  | 4899.3  | 5837.1  | 15594.7 | 25685.5 | 26193.8 | 13467.9 | 2331.3  | 1390.6  | 1028.4  |
| 80°   | 1484.1  | 1565.9  | 2392.7  | 7140.0  | 14548.9 | 14855.6 | 4992.8  | 1037.1  | 969.9   | 733.3   |
| 82.5° | 467.4   | 485.0   | 1116.0  | 3000.3  | 6038.7  | 6178.9  | 1446.1  | 587.2   | 663.2   | 485.0   |
| 85°   | 134.4   | 137.3   | 496.6   | 1118.9  | 1492.9  | 1522.1  | 406.1   | 227.9   | 379.8   | 300.9   |
| 87.5° | 14.6    | 46.7    | 187.0   | 187.0   | 131.5   | 128.5   | 43.8    | 49.7    | 108.1   | 38.0    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5778.6  | 0°    | 5778.6  | 5778.6  | 5778.6 | 5778.6 | 5778.6 | 5778.6 | 5778.6 | 5778.6 | 5778.6 | 5778.6 |
| 5804.9  | 2.5°  | 5790.3  | 5793.3  | 5755.3 | 5691.0 | 5620.9 | 5562.5 | 5489.4 | 5431.0 | 5390.1 | 5378.4 |
| 5857.5  | 5°    | 5831.2  | 5810.8  | 5702.7 | 5506.9 | 5273.2 | 5071.7 | 4846.7 | 4668.5 | 4551.6 | 4502.0 |
| 5913.0  | 7.5°  | 5892.6  | 5834.2  | 5597.5 | 5211.9 | 4764.9 | 4367.6 | 3964.4 | 3651.8 | 3453.2 | 3353.8 |
| 5965.6  | 10°   | 5945.2  | 5828.3  | 5422.2 | 4785.3 | 4101.7 | 3499.9 | 2956.5 | 2579.6 | 2369.3 | 2270.0 |
| 6027.0  | 12.5° | 5994.8  | 5825.4  | 5194.4 | 4279.9 | 3353.8 | 2617.6 | 2112.2 | 1925.2 | 1866.8 | 1846.4 |
| 6126.3  | 15°   | 6088.3  | 5834.2  | 4908.1 | 3701.5 | 2608.9 | 1977.8 | 1793.8 | 1790.9 | 1802.5 | 1796.7 |
| 6278.2  | 17.5° | 6216.9  | 5842.9  | 4583.8 | 3088.0 | 2012.9 | 1744.1 | 1735.3 | 1761.6 | 1779.2 | 1770.4 |
| 6468.1  | 20°   | 6383.4  | 5878.0  | 4239.0 | 2480.3 | 1729.5 | 1685.7 | 1706.1 | 1729.5 | 1744.1 | 1729.5 |
| 6722.3  | 22.5° | 6617.1  | 5939.3  | 3862.2 | 1992.4 | 1638.9 | 1650.6 | 1668.2 | 1694.4 | 1709.1 | 1688.6 |
| 7046.6  | 25°   | 6903.4  | 6035.7  | 3491.1 | 1732.4 | 1595.1 | 1609.7 | 1636.0 | 1665.2 | 1682.8 | 1662.3 |
| 7455.6  | 27.5° | 7274.4  | 6190.6  | 3149.3 | 1674.0 | 1551.3 | 1560.1 | 1598.0 | 1641.9 | 1665.2 | 1638.9 |
| 8036.9  | 30°   | 7812.0  | 6444.7  | 2854.3 | 1700.3 | 1525.0 | 1504.6 | 1557.1 | 1618.5 | 1644.8 | 1621.4 |
| 8828.6  | 32.5° | 8524.8  | 6804.1  | 2673.1 | 1741.2 | 1513.3 | 1440.3 | 1489.9 | 1568.8 | 1612.6 | 1598.0 |
| 9862.8  | 35°   | 9459.7  | 7350.4  | 2603.0 | 1787.9 | 1504.6 | 1373.1 | 1408.1 | 1492.9 | 1568.8 | 1583.4 |
| 11165.8 | 37.5° | 10593.2 | 8110.0  | 2623.5 | 1808.4 | 1478.3 | 1317.6 | 1335.1 | 1408.1 | 1507.5 | 1554.2 |
| 12632.4 | 40°   | 11881.6 | 8995.2  | 2740.3 | 1787.9 | 1449.0 | 1270.8 | 1273.8 | 1329.3 | 1416.9 | 1487.0 |
| 14210.0 | 42.5° | 13210.8 | 10029.4 | 2956.5 | 1712.0 | 1422.8 | 1229.9 | 1221.2 | 1259.1 | 1317.6 | 1367.2 |
| 15784.6 | 45°   | 14475.8 | 11092.8 | 3169.8 | 1606.8 | 1390.6 | 1189.0 | 1168.6 | 1183.2 | 1194.9 | 1215.3 |
| 17318.4 | 47.5° | 15580.1 | 11840.7 | 3108.4 | 1510.4 | 1346.8 | 1142.3 | 1107.2 | 1101.4 | 1066.3 | 1063.4 |
| 18688.6 | 50°   | 16342.6 | 12004.3 | 2760.8 | 1414.0 | 1282.5 | 1089.7 | 1034.2 | 999.1  | 937.8  | 908.6  |
| 19714.0 | 52.5° | 16585.1 | 11358.6 | 2255.4 | 1317.6 | 1177.3 | 1019.6 | 940.7  | 885.2  | 809.2  | 783.0  |
| 20304.1 | 55°   | 16263.8 | 10093.6 | 1802.5 | 1200.7 | 1031.3 | 926.1  | 838.5  | 765.4  | 704.1  | 671.9  |
| 20368.4 | 57.5° | 15477.9 | 8483.9  | 1425.7 | 1063.4 | 876.4  | 820.9  | 733.3  | 660.2  | 607.7  | 575.5  |
| 19655.6 | 60°   | 14174.9 | 6736.9  | 1127.7 | 899.8  | 747.9  | 707.0  | 616.4  | 569.7  | 522.9  | 485.0  |
| 17815.1 | 62.5° | 12197.1 | 4808.7  | 885.2  | 712.8  | 625.2  | 578.4  | 525.9  | 490.8  | 435.3  | 382.7  |
| 14505.0 | 65°   | 9518.1  | 2941.9  | 683.6  | 522.9  | 502.5  | 479.1  | 447.0  | 414.8  | 347.7  | 295.1  |
| 9462.6  | 67.5° | 6003.6  | 1393.5  | 487.9  | 394.4  | 397.3  | 385.6  | 371.0  | 344.7  | 295.1  | 248.3  |
| 4239.0  | 70°   | 2643.9  | 674.9   | 321.4  | 300.9  | 295.1  | 295.1  | 306.8  | 298.0  | 251.2  | 207.4  |
| 1472.4  | 72.5° | 899.8   | 362.3   | 239.6  | 227.9  | 213.3  | 210.3  | 257.1  | 248.3  | 201.6  | 160.7  |
| 733.3   | 75°   | 470.4   | 242.5   | 175.3  | 163.6  | 128.5  | 154.8  | 204.5  | 192.8  | 143.2  | 105.2  |
| 485.0   | 77.5° | 306.8   | 172.4   | 119.8  | 105.2  | 73.0   | 102.3  | 151.9  | 134.4  | 84.7   | 52.6   |
| 318.4   | 80°   | 192.8   | 113.9   | 70.1   | 49.7   | 35.1   | 55.5   | 81.8   | 58.4   | 32.1   | 11.7   |
| 187.0   | 82.5° | 102.3   | 58.4    | 26.3   | 17.5   | 14.6   | 17.5   | 20.5   | 14.6   | 5.8    | 0.0    |
| 96.4    | 85°   | 40.9    | 20.5    | 8.8    | 5.8    | 2.9    | 0.0    | 5.8    | 2.9    | 0.0    | 0.0    |
| 17.5    | 87.5° | 14.6    | 2.9     | 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°   |
|--------|
| 5778.6 |
| 5398.9 |
| 4519.5 |
| 3368.4 |
| 2272.9 |
| 1840.5 |
| 1793.8 |
| 1767.5 |
| 1726.6 |
| 1685.7 |
| 1659.4 |
| 1638.9 |
| 1618.5 |
| 1598.0 |
| 1583.4 |
| 1565.9 |
| 1510.4 |
| 1387.7 |
| 1227.0 |
| 1060.5 |
| 911.5  |
| 780.0  |
| 671.9  |
| 569.7  |
| 476.2  |
| 373.9  |
| 286.3  |
| 242.5  |
| 198.7  |
| 151.9  |
| 96.4   |
| 46.7   |
| 8.8    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |