

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: P954135

Luminaire Tested: **GLAN-SB7C-727-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954135  
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-SB7C-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 42120 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
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



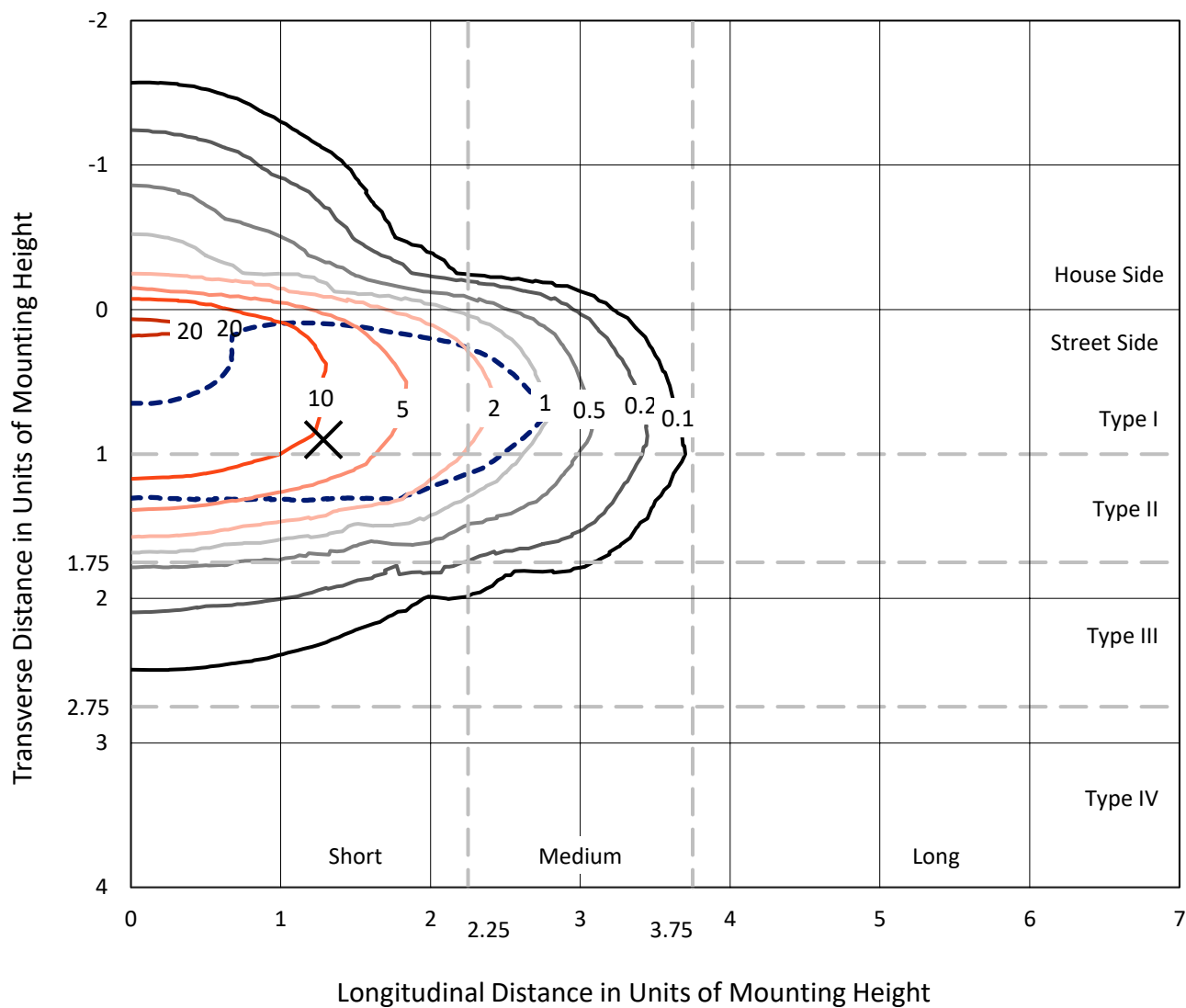
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

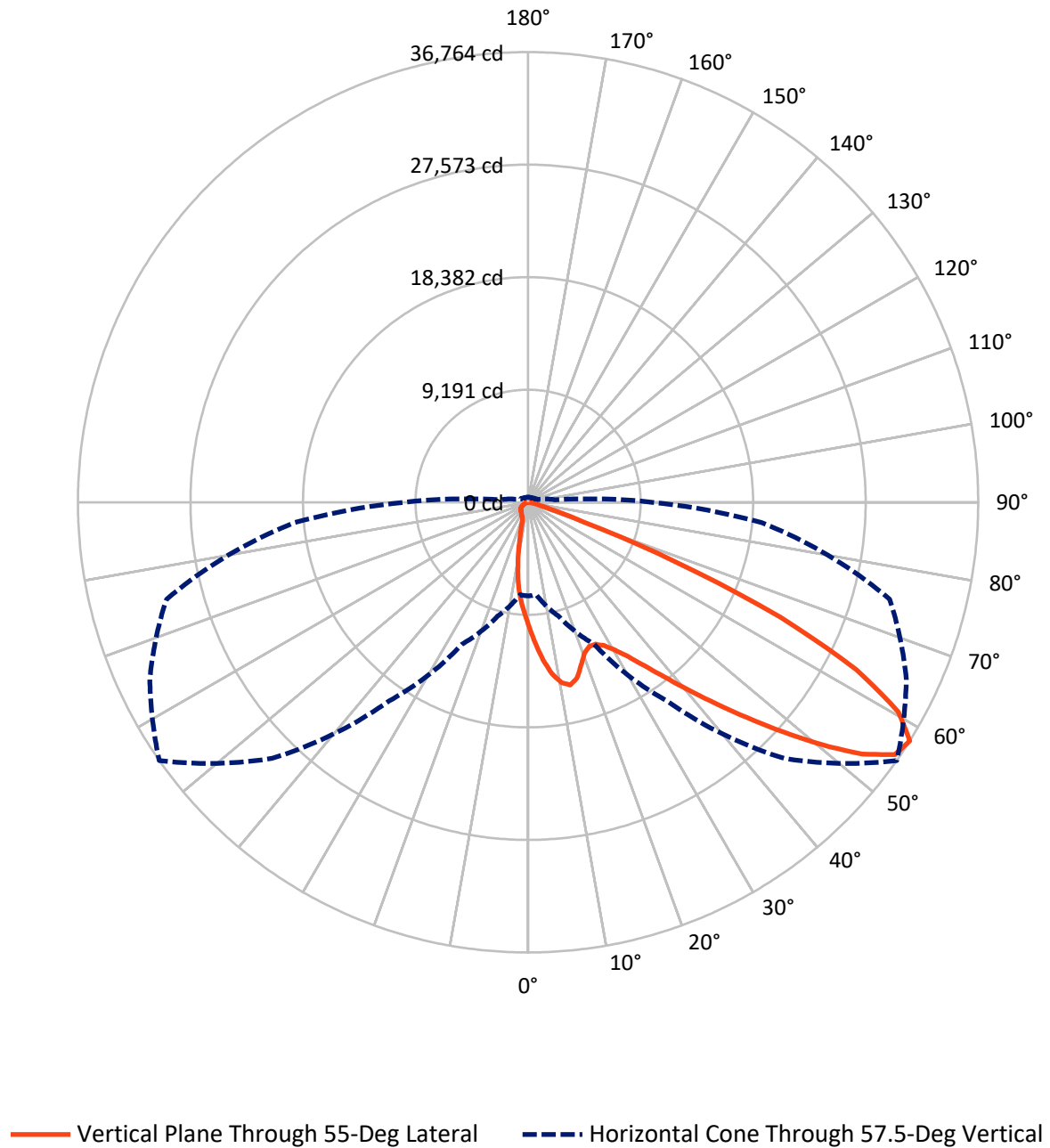


Based on 25 foot mounting height. Maximum calculated value = 23.2 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: GLAN-SB7C-727-U-AFL-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3289.4   | 0.0    | 3289.4  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 38830.6  | 0.0    | 38830.6 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 42120.0  | 0.0    | 42120.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 944.4   | 2.2       |
| 10°-20°   | 2281.2  | 5.4       |
| 20°-30°   | 3649.9  | 8.7       |
| 30°-40°   | 6177.6  | 14.7      |
| 40°-50°   | 10142.3 | 24.1      |
| 50°-60°   | 11147.1 | 26.5      |
| 60°-70°   | 6394.0  | 15.2      |
| 70°-80°   | 1306.5  | 3.1       |
| 80°-90°   | 77.1    | 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°    | 42120.0 | 100.0     |
| 0°-180°   | 42120.0 | 100.0     |

**Coefficient of Utilization**



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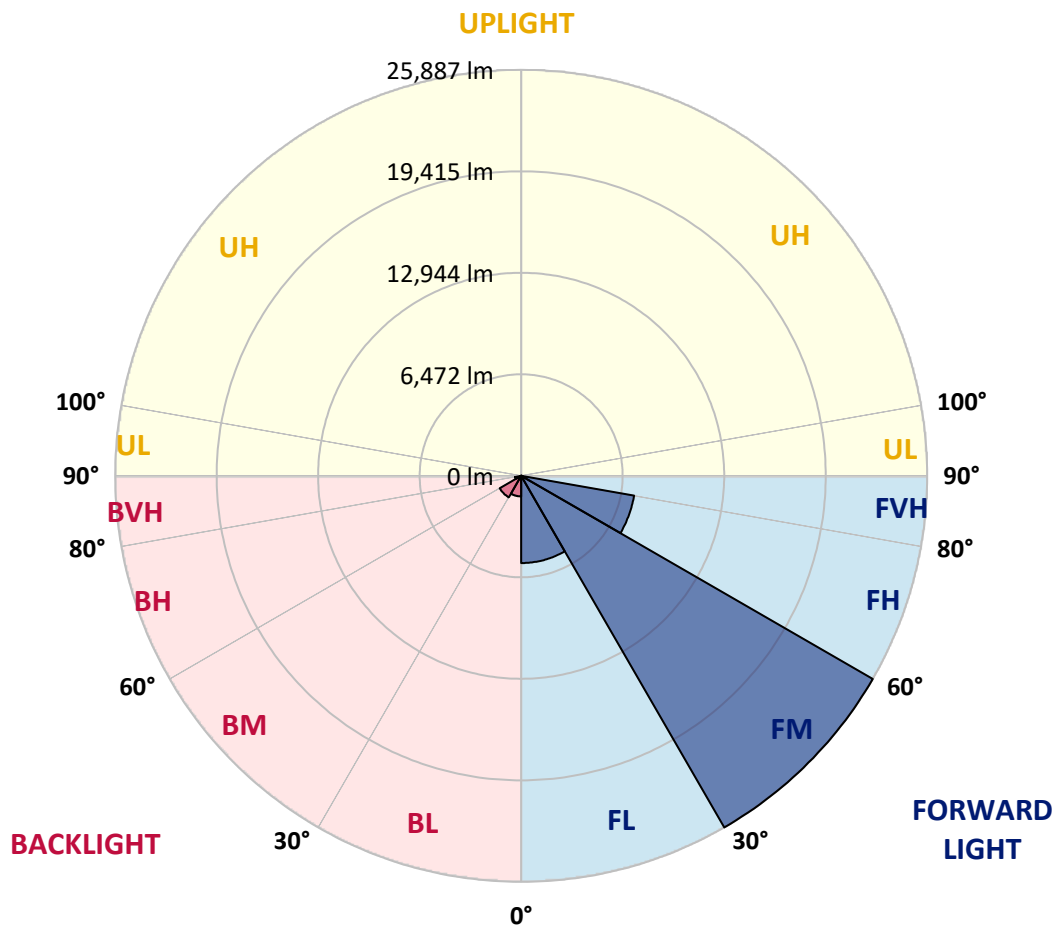
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5562.2  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 25887.3 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 7309.3  | 17.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 71.9    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1313.2  | 3.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1579.8  | 3.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 391.2   | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.2     | 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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 |
| 2.5°  | 12593.9 | 12435.4 | 12412.0 | 12380.9 | 12079.6 | 11853.6 | 11526.4 | 11168.0 | 10765.4 | 10355.1 |
| 5°    | 14549.5 | 14424.9 | 14401.5 | 14256.1 | 13913.2 | 13528.8 | 12947.1 | 12212.1 | 11461.5 | 10578.4 |
| 7.5°  | 14928.7 | 14905.4 | 15011.9 | 15006.7 | 14959.9 | 14656.0 | 14165.2 | 13289.9 | 12162.7 | 10853.7 |
| 10°   | 13238.0 | 13297.7 | 13614.6 | 13892.5 | 14643.0 | 15079.4 | 14972.9 | 14250.9 | 12884.7 | 11168.0 |
| 12.5° | 11697.8 | 11627.7 | 11853.6 | 12167.9 | 13040.6 | 14339.2 | 15307.9 | 15053.4 | 13710.7 | 11523.8 |
| 15°   | 10731.7 | 10703.1 | 10830.3 | 10975.8 | 11640.7 | 12949.7 | 14918.4 | 15705.3 | 14505.4 | 11944.6 |
| 17.5° | 10422.6 | 10399.2 | 10438.2 | 10474.5 | 10905.7 | 11918.6 | 13991.1 | 16105.3 | 15266.4 | 12425.0 |
| 20°   | 10674.5 | 10643.4 | 10638.2 | 10609.6 | 10788.8 | 11479.7 | 13152.3 | 16133.8 | 15949.4 | 12861.4 |
| 22.5° | 11409.5 | 11373.2 | 11245.9 | 11131.6 | 11147.2 | 11539.4 | 12778.3 | 15848.2 | 16463.7 | 13269.1 |
| 25°   | 12741.9 | 12682.2 | 12417.2 | 12032.9 | 11788.7 | 11954.9 | 12835.4 | 15471.6 | 16954.6 | 13588.6 |
| 27.5° | 14409.3 | 14331.4 | 13991.1 | 13419.8 | 12861.4 | 12658.8 | 13248.3 | 15211.8 | 17362.3 | 13832.7 |
| 30°   | 16042.9 | 15941.7 | 15606.6 | 15162.5 | 14347.0 | 13708.1 | 13993.7 | 15326.1 | 17848.0 | 14087.2 |
| 32.5° | 17806.4 | 17710.3 | 17266.2 | 16715.6 | 16040.3 | 15180.7 | 15014.4 | 15884.5 | 18442.8 | 14443.1 |
| 35°   | 20037.4 | 19886.8 | 19255.7 | 18505.1 | 17788.3 | 16918.2 | 16396.2 | 16848.1 | 19234.9 | 14985.9 |
| 37.5° | 22577.5 | 22374.9 | 21694.5 | 20658.2 | 19723.2 | 18749.2 | 18079.2 | 18172.7 | 20395.9 | 15713.1 |
| 40°   | 24972.1 | 24787.7 | 24159.2 | 23182.7 | 22008.7 | 20827.0 | 20112.8 | 19905.0 | 21998.3 | 16598.7 |
| 42.5° | 26408.4 | 26242.2 | 25977.3 | 25564.3 | 24574.8 | 23369.7 | 22468.4 | 22019.1 | 23894.3 | 17658.4 |
| 45°   | 26488.9 | 26343.5 | 26699.3 | 27179.8 | 26985.0 | 26182.4 | 25083.8 | 24260.5 | 25798.0 | 18653.1 |
| 47.5° | 25200.7 | 25102.0 | 26182.4 | 27860.2 | 28696.5 | 29034.2 | 28021.3 | 26314.9 | 27369.4 | 19367.4 |
| 50°   | 21689.3 | 21652.9 | 23876.1 | 26956.4 | 29348.4 | 31532.7 | 31119.7 | 28226.4 | 28587.4 | 19736.2 |
| 52.5° | 18806.4 | 18673.9 | 19969.9 | 24063.1 | 28400.5 | 32846.9 | 34148.1 | 30101.6 | 29439.3 | 19806.3 |
| 55°   | 14263.9 | 14147.0 | 15772.8 | 19221.9 | 25343.5 | 32379.4 | 36363.5 | 32036.5 | 30049.7 | 19627.1 |
| 57.5° | 7651.4  | 7578.6  | 9633.0  | 12793.8 | 19811.5 | 29574.4 | 36763.5 | 34083.1 | 30563.9 | 19151.8 |
| 60°   | 2979.0  | 2966.0  | 3734.8  | 6207.3  | 12040.6 | 24060.5 | 34745.4 | 35311.6 | 30886.0 | 18567.4 |
| 62.5° | 1802.5  | 1841.4  | 1966.1  | 2786.8  | 5319.1  | 14946.9 | 30093.8 | 33914.3 | 31101.5 | 18032.4 |
| 65°   | 1490.8  | 1493.4  | 1509.0  | 1914.1  | 2547.9  | 6254.1  | 22655.4 | 29317.3 | 30569.1 | 17079.2 |
| 67.5° | 1277.8  | 1301.2  | 1360.9  | 1519.4  | 1797.3  | 2742.6  | 13043.2 | 22710.0 | 27330.4 | 14861.2 |
| 70°   | 1007.7  | 1038.9  | 1114.2  | 1249.3  | 1386.9  | 1716.8  | 4820.4  | 15110.5 | 20878.9 | 11201.8 |
| 72.5° | 849.3   | 846.7   | 885.6   | 1015.5  | 1101.2  | 1207.7  | 1854.4  | 8466.9  | 12134.1 | 5347.6  |
| 75°   | 657.1   | 683.1   | 732.4   | 849.3   | 901.2   | 875.3   | 1005.1  | 3093.3  | 4347.7  | 1620.7  |
| 77.5° | 514.2   | 535.0   | 579.2   | 693.5   | 745.4   | 620.7   | 579.2   | 1106.4  | 1397.3  | 581.8   |
| 80°   | 231.2   | 249.3   | 394.8   | 511.6   | 607.7   | 428.5   | 314.3   | 566.2   | 620.7   | 264.9   |
| 82.5° | 41.6    | 70.1    | 231.2   | 270.1   | 311.7   | 277.9   | 163.6   | 293.5   | 303.9   | 106.5   |
| 85°   | 2.6     | 5.2     | 80.5    | 98.7    | 124.7   | 90.9    | 49.3    | 116.9   | 101.3   | 36.4    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.6     | 2.6     | 13.0    | 15.6    | 20.8    | 15.6    | 13.0    |
| 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):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10149.9 | 0°    | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 | 10149.9 |
| 10173.3 | 2.5°  | 9986.3  | 9617.5  | 9259.0  | 8965.6  | 8794.1  | 8503.3  | 8311.1  | 8279.9  | 8199.4  | 8269.5  |
| 10199.2 | 5°    | 9794.1  | 9134.4  | 8466.9  | 7869.5  | 7378.7  | 6744.9  | 6272.3  | 6072.3  | 5898.3  | 5958.0  |
| 10266.8 | 7.5°  | 9703.2  | 8661.7  | 7622.8  | 6602.1  | 5552.8  | 4539.9  | 3786.7  | 3472.5  | 3233.5  | 3267.3  |
| 10342.1 | 10°   | 9581.1  | 8170.8  | 6542.4  | 4984.0  | 3579.0  | 2579.0  | 2059.6  | 1867.4  | 1760.9  | 1763.5  |
| 10453.8 | 12.5° | 9487.6  | 7583.8  | 5287.9  | 3379.0  | 2179.1  | 1646.6  | 1485.6  | 1438.9  | 1407.7  | 1410.3  |
| 10622.6 | 15°   | 9440.8  | 6893.0  | 4049.0  | 2251.8  | 1558.3  | 1394.7  | 1355.7  | 1335.0  | 1314.2  | 1311.6  |
| 10809.6 | 17.5° | 9362.9  | 6124.2  | 2963.4  | 1644.0  | 1363.5  | 1306.4  | 1272.6  | 1249.3  | 1223.3  | 1218.1  |
| 10970.6 | 20°   | 9246.1  | 5251.6  | 2166.1  | 1389.5  | 1277.8  | 1233.7  | 1186.9  | 1155.8  | 1124.6  | 1119.4  |
| 11071.9 | 22.5° | 9030.5  | 4329.5  | 1664.8  | 1285.6  | 1215.5  | 1166.1  | 1109.0  | 1072.6  | 1041.5  | 1036.3  |
| 11022.5 | 25°   | 8630.5  | 3464.7  | 1402.5  | 1220.7  | 1161.0  | 1101.2  | 1038.9  | 989.5   | 961.0   | 955.8   |
| 10916.1 | 27.5° | 8124.1  | 2721.9  | 1272.6  | 1161.0  | 1090.8  | 1036.3  | 966.2   | 919.4   | 893.4   | 888.2   |
| 10775.8 | 30°   | 7526.7  | 2095.9  | 1197.3  | 1093.4  | 1007.7  | 961.0   | 898.6   | 859.7   | 844.1   | 844.1   |
| 10677.1 | 32.5° | 6882.6  | 1675.2  | 1166.1  | 1025.9  | 935.0   | 883.1   | 833.7   | 818.1   | 812.9   | 810.3   |
| 10731.7 | 35°   | 6277.4  | 1454.4  | 1150.6  | 971.4   | 870.1   | 820.7   | 799.9   | 802.5   | 812.9   | 812.9   |
| 10900.5 | 37.5° | 5739.8  | 1384.3  | 1142.8  | 932.4   | 812.9   | 768.8   | 781.8   | 805.1   | 794.7   | 794.7   |
| 11196.6 | 40°   | 5254.1  | 1392.1  | 1137.6  | 903.8   | 766.2   | 740.2   | 766.2   | 748.0   | 722.0   | 719.4   |
| 11557.6 | 42.5° | 4882.7  | 1457.0  | 1127.2  | 880.5   | 737.6   | 719.4   | 709.0   | 680.5   | 677.9   | 683.1   |
| 11931.6 | 45°   | 4612.6  | 1514.2  | 1124.6  | 870.1   | 706.4   | 672.7   | 659.7   | 631.1   | 683.1   | 696.1   |
| 12084.8 | 47.5° | 4293.2  | 1514.2  | 1124.6  | 833.7   | 654.5   | 641.5   | 620.7   | 589.6   | 641.5   | 654.5   |
| 11939.4 | 50°   | 3880.2  | 1418.1  | 1080.4  | 792.1   | 612.9   | 605.1   | 568.8   | 529.8   | 519.4   | 527.2   |
| 11599.1 | 52.5° | 3358.2  | 1244.1  | 968.8   | 735.0   | 571.4   | 555.8   | 511.6   | 483.1   | 475.3   | 475.3   |
| 10988.8 | 55°   | 2763.4  | 1041.5  | 818.1   | 651.9   | 527.2   | 498.7   | 467.5   | 454.5   | 446.7   | 441.5   |
| 10134.3 | 57.5° | 2246.6  | 854.5   | 657.1   | 579.2   | 485.7   | 449.3   | 438.9   | 423.3   | 410.4   | 402.6   |
| 9420.1  | 60°   | 1844.0  | 672.7   | 542.8   | 514.2   | 444.1   | 410.4   | 407.8   | 387.0   | 353.2   | 348.0   |
| 8830.5  | 62.5° | 1423.3  | 493.5   | 457.1   | 446.7   | 402.6   | 374.0   | 368.8   | 327.2   | 275.3   | 264.9   |
| 7994.2  | 65°   | 1005.1  | 384.4   | 368.8   | 392.2   | 358.4   | 332.4   | 319.5   | 257.1   | 202.6   | 194.8   |
| 6690.4  | 67.5° | 706.4   | 322.1   | 290.9   | 342.8   | 311.7   | 277.9   | 270.1   | 218.2   | 168.8   | 163.6   |
| 5059.4  | 70°   | 503.9   | 262.3   | 238.9   | 293.5   | 249.3   | 244.1   | 228.6   | 181.8   | 137.7   | 132.5   |
| 2503.7  | 72.5° | 355.8   | 200.0   | 184.4   | 254.5   | 171.4   | 210.4   | 187.0   | 140.2   | 103.9   | 98.7    |
| 851.9   | 75°   | 262.3   | 142.8   | 129.9   | 148.0   | 124.7   | 158.4   | 132.5   | 93.5    | 64.9    | 62.3    |
| 384.4   | 77.5° | 192.2   | 90.9    | 77.9    | 72.7    | 72.7    | 98.7    | 72.7    | 39.0    | 28.6    | 26.0    |
| 194.8   | 80°   | 135.1   | 41.6    | 36.4    | 31.2    | 28.6    | 23.4    | 10.4    | 5.2     | 2.6     | 2.6     |
| 67.5    | 82.5° | 80.5    | 18.2    | 18.2    | 13.0    | 7.8     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 26.0    | 85°   | 18.2    | 7.8     | 7.8     | 2.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 10.4    | 87.5° | 2.6     | 2.6     | 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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