

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: P850465

Luminaire Tested: **GLAN-SB8A-727-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P850465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8A-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23555 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

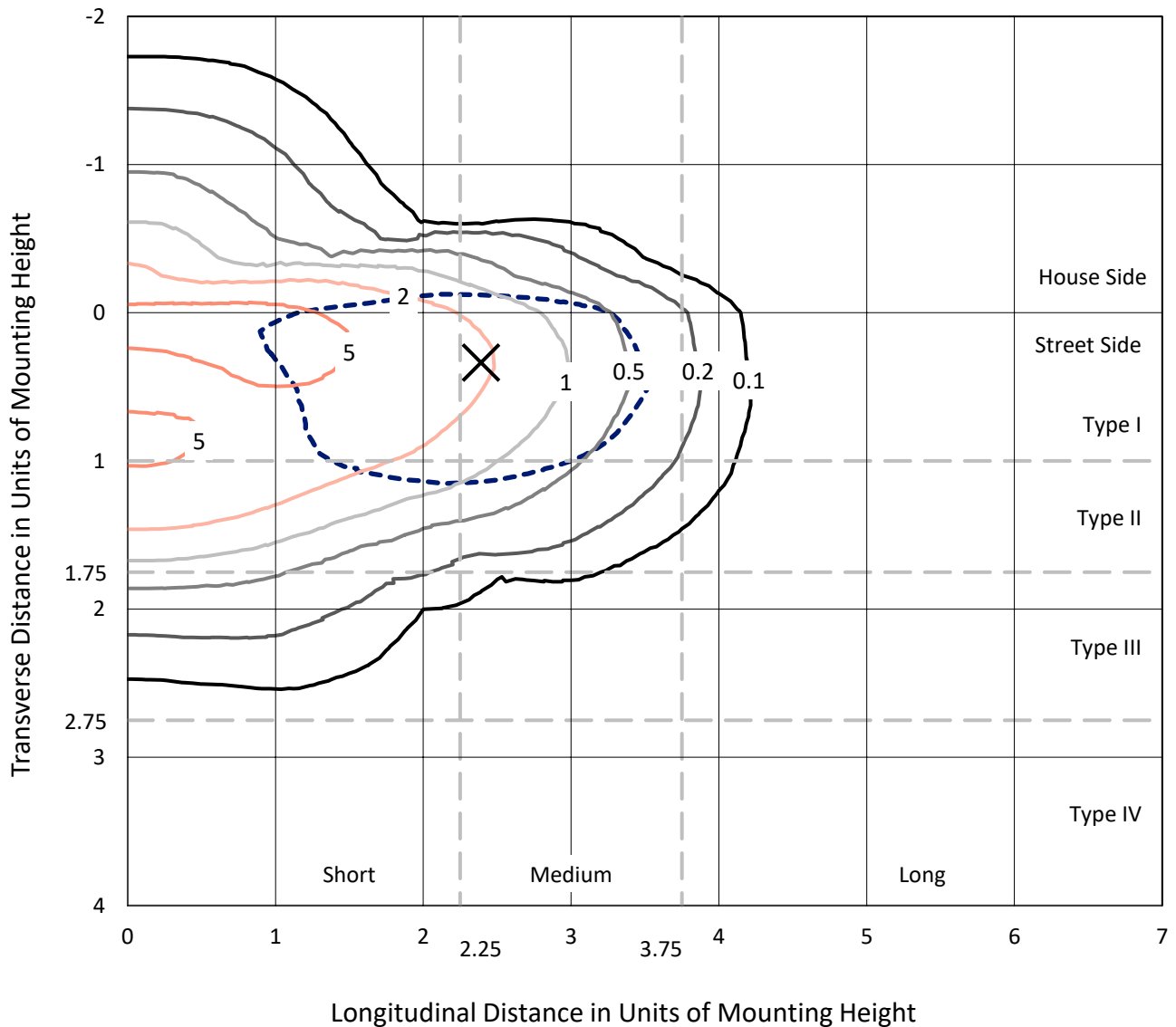
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

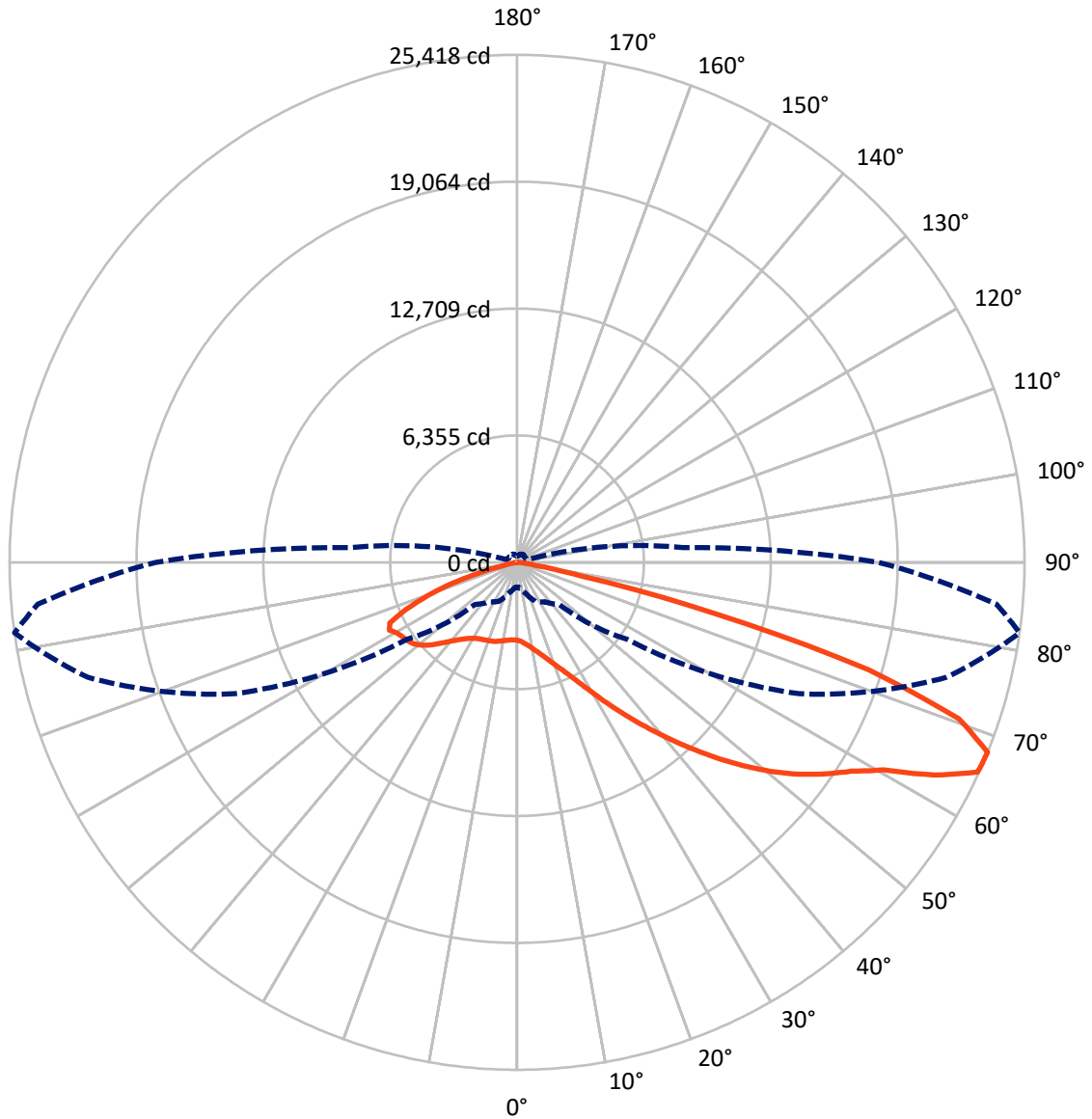
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4266.8   | 0.0    | 4266.8  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 19288.2  | 0.0    | 19288.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 23555.0  | 0.0    | 23555.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 347.7   | 1.5       |
| 10°-20°   | 903.4   | 3.8       |
| 20°-30°   | 1447.0  | 6.1       |
| 30°-40°   | 2558.8  | 10.9      |
| 40°-50°   | 4483.2  | 19.0      |
| 50°-60°   | 5979.3  | 25.4      |
| 60°-70°   | 5566.5  | 23.6      |
| 70°-80°   | 2136.4  | 9.1       |
| 80°-90°   | 132.7   | 0.6       |
| 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°    | 23555.0 | 100.0     |
| 0°-180°   | 23555.0 | 100.0     |

**Coefficient of Utilization**

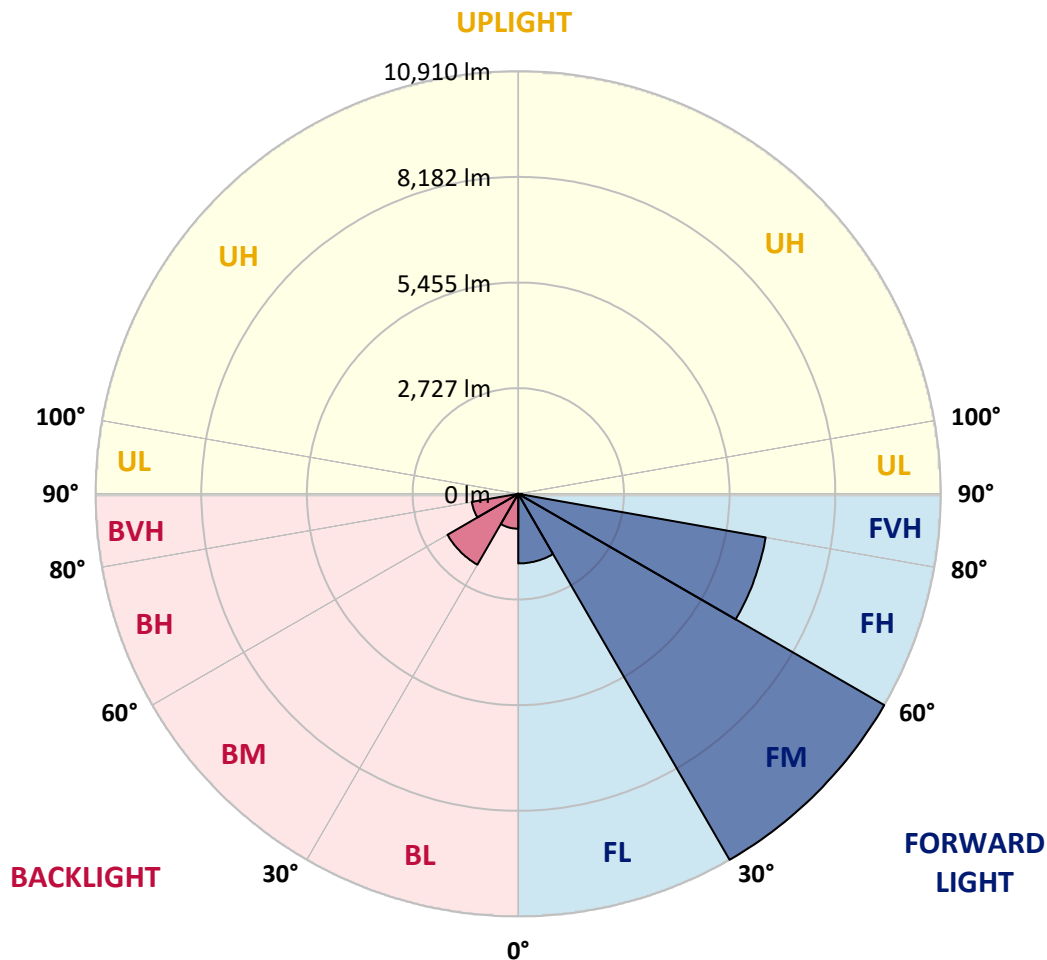


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1797.0  | 7.6       |                         |      |         |
| FM (30°-60°)   | 10909.7 | 46.3      |                         |      |         |
| FH (60°-80°)   | 6485.1  | 27.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 96.5    | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 901.1   | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 2111.6  | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1217.8  | 5.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 36.2    | 0.2       |                         |      | G1/100  |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 3902.3 | 3902.3 | 3902.3 | 3902.3 | 3902.3  | 3902.3  | 3902.3  | 3902.3  | 3902.3  | 3902.3  |
| 2.5°  | 4124.4 | 4148.2 | 4134.6 | 4127.8 | 4115.9  | 4099.0  | 4085.4  | 4043.0  | 3998.9  | 3970.1  |
| 5°    | 4207.5 | 4231.3 | 4229.6 | 4236.4 | 4244.8  | 4249.9  | 4246.5  | 4199.0  | 4136.3  | 4087.1  |
| 7.5°  | 4136.3 | 4163.4 | 4185.5 | 4219.4 | 4278.8  | 4341.5  | 4372.0  | 4361.9  | 4297.4  | 4229.6  |
| 10°   | 3934.5 | 3963.3 | 4015.9 | 4095.6 | 4221.1  | 4356.8  | 4470.4  | 4523.0  | 4482.3  | 4407.6  |
| 12.5° | 3564.8 | 3593.6 | 3697.1 | 3870.0 | 4080.3  | 4316.1  | 4533.1  | 4673.9  | 4684.1  | 4609.5  |
| 15°   | 3149.3 | 3178.1 | 3288.4 | 3505.4 | 3826.0  | 4204.1  | 4567.1  | 4833.3  | 4923.2  | 4858.8  |
| 17.5° | 2891.5 | 2916.9 | 3000.0 | 3174.7 | 3508.8  | 3980.3  | 4555.2  | 5002.9  | 5208.1  | 5157.2  |
| 20°   | 2813.5 | 2835.5 | 2874.6 | 2996.7 | 3274.8  | 3747.9  | 4477.2  | 5162.3  | 5515.1  | 5486.2  |
| 22.5° | 2896.6 | 2916.9 | 2928.8 | 2983.1 | 3157.8  | 3595.3  | 4378.8  | 5325.1  | 5871.2  | 5874.6  |
| 25°   | 3088.2 | 3108.6 | 3095.0 | 3128.9 | 3205.3  | 3547.8  | 4341.5  | 5516.8  | 6318.9  | 6356.2  |
| 27.5° | 3403.7 | 3405.4 | 3373.1 | 3371.4 | 3383.3  | 3619.1  | 4380.5  | 5722.0  | 6883.7  | 6953.2  |
| 30°   | 4036.2 | 4010.8 | 3887.0 | 3753.0 | 3692.0  | 3832.7  | 4489.0  | 5964.5  | 7550.1  | 7673.9  |
| 32.5° | 5011.4 | 4974.1 | 4746.8 | 4426.3 | 4104.1  | 4177.0  | 4684.1  | 6240.9  | 8276.0  | 8499.9  |
| 35°   | 6069.6 | 6059.5 | 5822.0 | 5345.5 | 4782.4  | 4667.1  | 5001.2  | 6603.8  | 9068.0  | 9424.1  |
| 37.5° | 7053.2 | 7048.2 | 6912.5 | 6351.1 | 5666.0  | 5350.6  | 5510.0  | 7078.7  | 9915.9  | 10431.5 |
| 40°   | 7952.1 | 7967.3 | 7831.7 | 7329.7 | 6639.4  | 6227.3  | 6201.9  | 7665.5  | 10858.8 | 11528.7 |
| 42.5° | 8728.8 | 8745.8 | 8608.4 | 8237.0 | 7601.0  | 7197.4  | 7051.6  | 8384.5  | 11779.7 | 12707.4 |
| 45°   | 9256.2 | 9361.4 | 9341.0 | 9044.2 | 8588.0  | 8169.2  | 8072.5  | 9286.7  | 12829.5 | 13957.3 |
| 47.5° | 9405.5 | 9502.1 | 9654.8 | 9695.5 | 9417.3  | 9005.2  | 9120.6  | 10373.8 | 13891.1 | 15208.8 |
| 50°   | 9037.5 | 9127.3 | 9444.5 | 9866.7 | 10060.1 | 9932.9  | 10139.8 | 11538.9 | 14978.2 | 16457.0 |
| 52.5° | 8311.6 | 8403.2 | 8803.4 | 9471.6 | 10260.2 | 10660.4 | 11162.4 | 12687.0 | 16031.3 | 17639.1 |
| 55°   | 7261.8 | 7358.5 | 7872.4 | 8628.7 | 9878.6  | 10960.6 | 12015.5 | 13833.5 | 16996.3 | 18702.4 |
| 57.5° | 5833.9 | 5905.1 | 6439.3 | 7497.6 | 8918.7  | 10662.1 | 12644.6 | 15085.0 | 17905.3 | 19747.1 |
| 60°   | 3802.2 | 3865.0 | 4485.7 | 5666.0 | 7328.0  | 9664.9  | 12770.1 | 16480.8 | 19112.8 | 21105.5 |
| 62.5° | 2528.6 | 2571.0 | 2939.0 | 3805.6 | 5160.6  | 7750.3  | 12035.8 | 17595.0 | 20883.3 | 23469.6 |
| 65°   | 1734.9 | 1777.3 | 2145.3 | 2749.1 | 3334.1  | 5126.7  | 9924.4  | 17447.4 | 22487.6 | 25346.9 |
| 67.5° | 1238.0 | 1273.6 | 1585.7 | 2155.5 | 2413.3  | 2978.0  | 6727.6  | 15561.6 | 22257.0 | 25418.2 |
| 70°   | 887.0  | 907.3  | 1165.1 | 1678.9 | 1918.1  | 1789.2  | 3741.2  | 11901.8 | 19487.6 | 23471.3 |
| 72.5° | 620.7  | 627.5  | 808.9  | 1278.7 | 1545.0  | 1305.8  | 1780.7  | 7935.1  | 14739.1 | 18422.6 |
| 75°   | 420.6  | 429.1  | 544.4  | 937.8  | 1239.7  | 997.2   | 942.9   | 4255.0  | 8652.5  | 10197.4 |
| 77.5° | 257.8  | 261.2  | 351.1  | 641.1  | 927.7   | 759.8   | 607.1   | 1802.7  | 3347.7  | 3286.7  |
| 80°   | 145.8  | 145.8  | 223.9  | 398.5  | 632.6   | 490.1   | 425.7   | 766.5   | 1059.9  | 931.0   |
| 82.5° | 81.4   | 83.1   | 162.8  | 247.6  | 418.9   | 290.0   | 234.0   | 354.4   | 457.9   | 405.3   |
| 85°   | 33.9   | 37.3   | 100.1  | 117.0  | 200.1   | 144.2   | 95.0    | 149.2   | 169.6   | 150.9   |
| 87.5° | 3.4    | 5.1    | 30.5   | 22.0   | 23.7    | 28.8    | 13.6    | 28.8    | 23.7    | 23.7    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3902.3  | 0°    | 3902.3  | 3902.3 | 3902.3 | 3902.3 | 3902.3 | 3902.3 | 3902.3 | 3902.3 | 3902.3 | 3902.3 |
| 3959.9  | 2.5°  | 3927.7  | 3902.3 | 3837.8 | 3763.2 | 3664.8 | 3617.4 | 3552.9 | 3508.8 | 3471.5 | 3474.9 |
| 4058.3  | 5°    | 4004.0  | 3939.6 | 3795.4 | 3615.7 | 3391.8 | 3232.4 | 3062.8 | 2945.8 | 2850.8 | 2830.5 |
| 4194.0  | 7.5°  | 4109.2  | 4007.4 | 3754.7 | 3430.8 | 3052.6 | 2766.0 | 2509.9 | 2345.4 | 2228.4 | 2191.1 |
| 4358.5  | 10°   | 4244.8  | 4097.3 | 3702.2 | 3198.5 | 2654.1 | 2289.5 | 2014.7 | 1885.8 | 1806.1 | 1779.0 |
| 4551.8  | 12.5° | 4402.6  | 4200.7 | 3632.6 | 2915.3 | 2243.7 | 1892.6 | 1717.9 | 1653.5 | 1628.1 | 1619.6 |
| 4789.2  | 15°   | 4601.0  | 4329.6 | 3527.5 | 2579.5 | 1896.0 | 1650.1 | 1575.5 | 1567.0 | 1570.4 | 1567.0 |
| 5074.1  | 17.5° | 4836.7  | 4470.4 | 3356.2 | 2233.5 | 1662.0 | 1526.3 | 1499.2 | 1506.0 | 1514.4 | 1512.7 |
| 5393.0  | 20°   | 5094.5  | 4609.5 | 3137.4 | 1926.5 | 1502.6 | 1438.1 | 1422.9 | 1429.6 | 1436.4 | 1433.0 |
| 5761.0  | 22.5° | 5387.9  | 4758.7 | 2894.9 | 1687.4 | 1395.7 | 1356.7 | 1339.8 | 1341.5 | 1341.5 | 1334.7 |
| 6227.3  | 25°   | 5738.9  | 4923.2 | 2640.5 | 1517.8 | 1314.3 | 1283.8 | 1263.4 | 1256.7 | 1246.5 | 1226.1 |
| 6793.8  | 27.5° | 6157.8  | 5097.9 | 2396.3 | 1399.1 | 1249.9 | 1221.0 | 1197.3 | 1180.3 | 1154.9 | 1121.0 |
| 7473.8  | 30°   | 6629.3  | 5309.9 | 2189.4 | 1324.5 | 1199.0 | 1170.2 | 1143.0 | 1117.6 | 1080.3 | 1037.9 |
| 8255.6  | 32.5° | 7183.8  | 5537.1 | 2038.5 | 1275.3 | 1153.2 | 1122.7 | 1090.5 | 1059.9 | 1019.2 | 976.8  |
| 9134.1  | 35°   | 7845.2  | 5811.8 | 1950.3 | 1241.4 | 1117.6 | 1076.9 | 1041.3 | 1007.4 | 976.8  | 939.5  |
| 10088.9 | 37.5° | 8562.6  | 6103.5 | 1923.2 | 1224.4 | 1093.9 | 1031.1 | 990.4  | 966.7  | 963.3  | 941.2  |
| 11121.7 | 40°   | 9347.8  | 6449.5 | 1943.5 | 1214.3 | 1068.4 | 987.0  | 942.9  | 937.8  | 946.3  | 907.3  |
| 12225.7 | 42.5° | 10178.8 | 6859.9 | 1977.4 | 1202.4 | 1032.8 | 942.9  | 900.5  | 900.5  | 893.7  | 839.5  |
| 13392.5 | 45°   | 11077.6 | 7333.1 | 2011.3 | 1173.6 | 990.4  | 898.8  | 866.6  | 854.7  | 825.9  | 773.3  |
| 14566.1 | 47.5° | 11983.2 | 7814.7 | 2036.8 | 1121.0 | 939.5  | 861.5  | 832.7  | 805.6  | 763.2  | 715.7  |
| 15717.6 | 50°   | 12843.1 | 8247.2 | 2009.6 | 1043.0 | 881.9  | 825.9  | 795.4  | 758.1  | 712.3  | 680.1  |
| 16808.1 | 52.5° | 13611.3 | 8622.0 | 1894.3 | 951.4  | 820.8  | 788.6  | 761.5  | 722.5  | 685.1  | 651.2  |
| 17791.7 | 55°   | 14279.5 | 8925.5 | 1690.8 | 864.9  | 766.5  | 756.4  | 729.2  | 680.1  | 629.2  | 600.3  |
| 18766.8 | 57.5° | 14920.5 | 9156.2 | 1436.4 | 793.7  | 717.4  | 720.8  | 680.1  | 636.0  | 588.5  | 558.0  |
| 20081.2 | 60°   | 15773.6 | 9464.8 | 1178.7 | 727.5  | 664.8  | 675.0  | 630.9  | 598.7  | 539.3  | 500.3  |
| 22335.0 | 62.5° | 17137.1 | 9944.8 | 936.1  | 646.1  | 603.7  | 607.1  | 588.5  | 549.5  | 478.2  | 432.5  |
| 24005.5 | 65°   | 18219.1 | 9768.4 | 737.7  | 558.0  | 534.2  | 539.3  | 539.3  | 496.9  | 420.6  | 368.0  |
| 24095.4 | 67.5° | 18097.0 | 8364.2 | 588.5  | 471.5  | 468.1  | 471.5  | 483.3  | 447.7  | 373.1  | 330.7  |
| 22260.4 | 70°   | 16670.7 | 6653.0 | 471.5  | 391.8  | 407.0  | 398.5  | 432.5  | 408.7  | 335.8  | 293.4  |
| 17257.5 | 72.5° | 13602.8 | 4792.6 | 359.5  | 323.9  | 312.0  | 325.6  | 390.1  | 368.0  | 279.8  | 232.3  |
| 9140.9  | 75°   | 7948.7  | 2557.4 | 268.0  | 256.1  | 225.6  | 271.3  | 346.0  | 313.7  | 213.7  | 171.3  |
| 2801.6  | 77.5° | 2587.9  | 892.0  | 196.7  | 188.2  | 167.9  | 218.8  | 295.1  | 264.6  | 174.7  | 135.7  |
| 820.8   | 80°   | 693.6   | 269.6  | 134.0  | 123.8  | 108.5  | 162.8  | 234.0  | 210.3  | 125.5  | 88.2   |
| 352.7   | 82.5° | 278.1   | 113.6  | 78.0   | 69.5   | 59.4   | 111.9  | 184.9  | 169.6  | 93.3   | 56.0   |
| 110.2   | 85°   | 89.9    | 37.3   | 28.8   | 22.0   | 27.1   | 69.5   | 110.2  | 115.3  | 66.1   | 28.8   |
| 17.0    | 87.5° | 11.9    | 5.1    | 5.1    | 6.8    | 5.1    | 11.9   | 33.9   | 32.2   | 18.7   | 3.4    |
| 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°   |
|--------|
| 3902.3 |
| 3441.0 |
| 2784.7 |
| 2153.8 |
| 1758.6 |
| 1614.5 |
| 1565.3 |
| 1509.4 |
| 1431.3 |
| 1331.3 |
| 1222.7 |
| 1117.6 |
| 1034.5 |
| 978.5  |
| 936.1  |
| 939.5  |
| 909.0  |
| 839.5  |
| 771.6  |
| 714.0  |
| 675.0  |
| 647.8  |
| 597.0  |
| 554.6  |
| 495.2  |
| 429.1  |
| 362.9  |
| 323.9  |
| 288.3  |
| 227.3  |
| 166.2  |
| 130.6  |
| 86.5   |
| 56.0   |
| 22.0   |
| 0.0    |
| 0.0    |

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