

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: P950708

Luminaire Tested: **GLAN-SB5A-827-U-T4W-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 15178 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

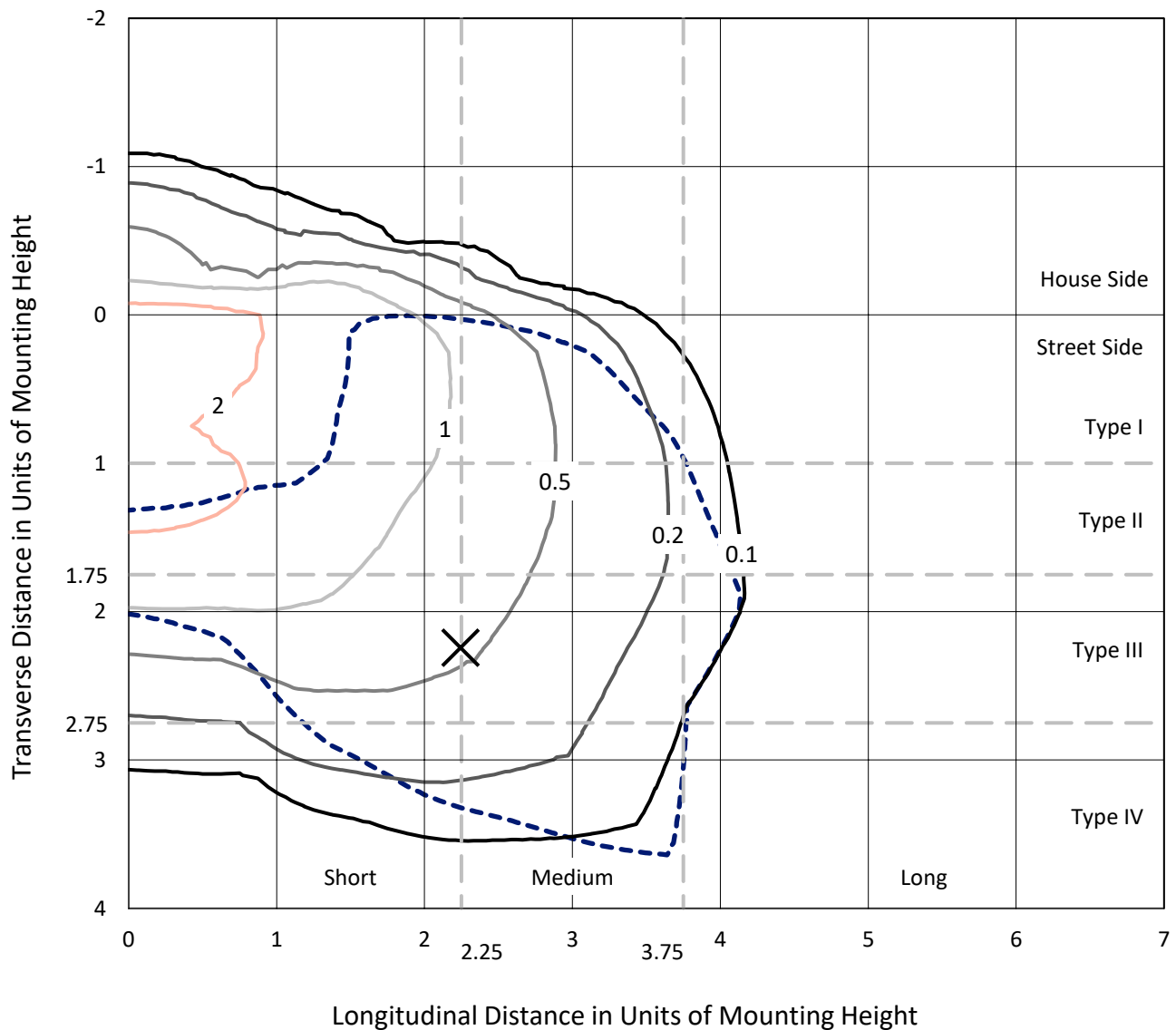
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

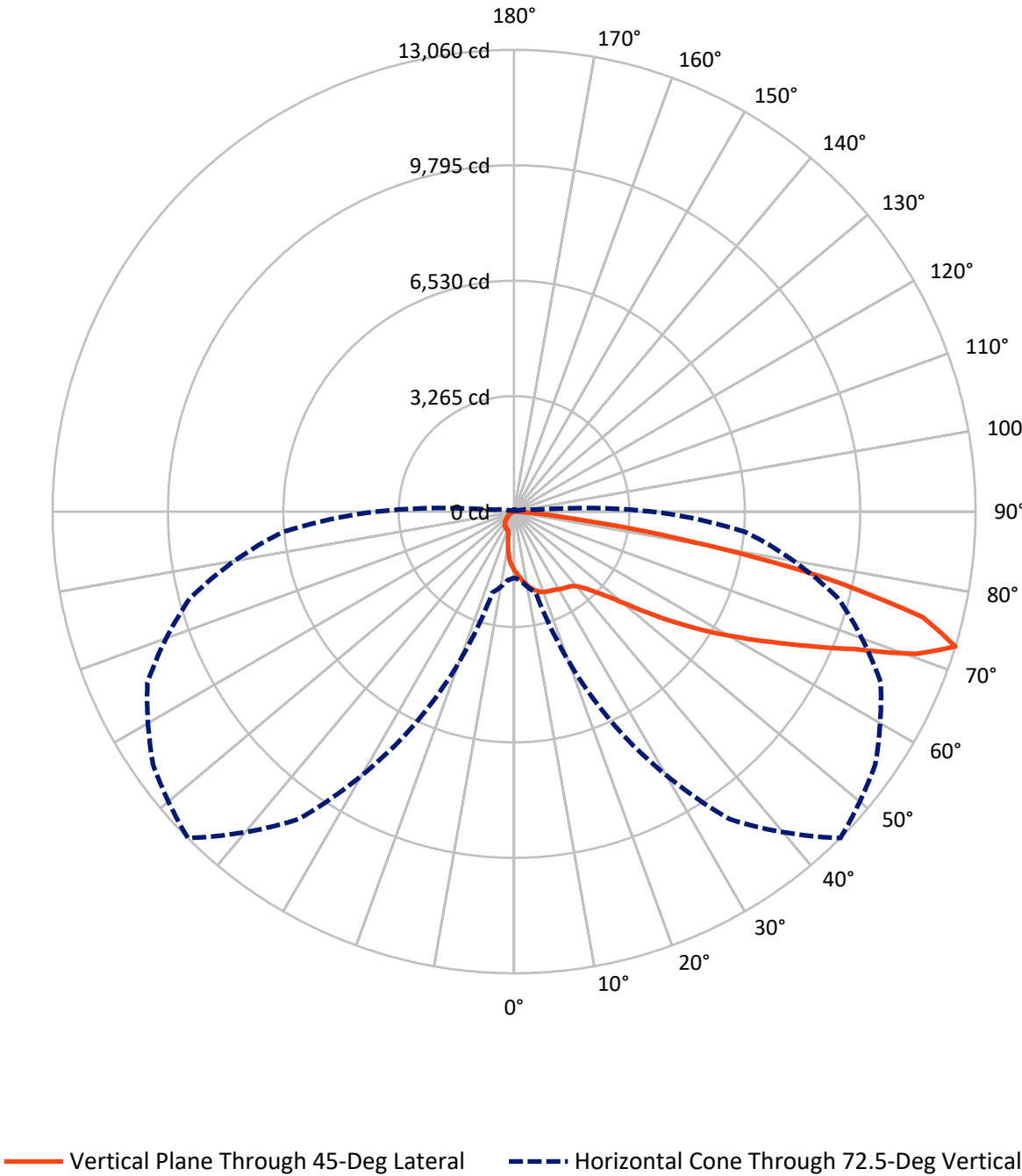
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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    | 1594.8   | 0.0    | 1594.8  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 13583.2  | 0.0    | 13583.2 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 15178.0  | 0.0    | 15178.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 156.7   | 1.0       |
| 10°-20°   | 457.9   | 3.0       |
| 20°-30°   | 751.9   | 5.0       |
| 30°-40°   | 1066.4  | 7.0       |
| 40°-50°   | 1762.6  | 11.6      |
| 50°-60°   | 3166.3  | 20.9      |
| 60°-70°   | 4396.6  | 29.0      |
| 70°-80°   | 3189.1  | 21.0      |
| 80°-90°   | 230.6   | 1.5       |
| 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°    | 15178.0 | 100.0     |
| 0°-180°   | 15178.0 | 100.0     |

**Coefficient of Utilization**



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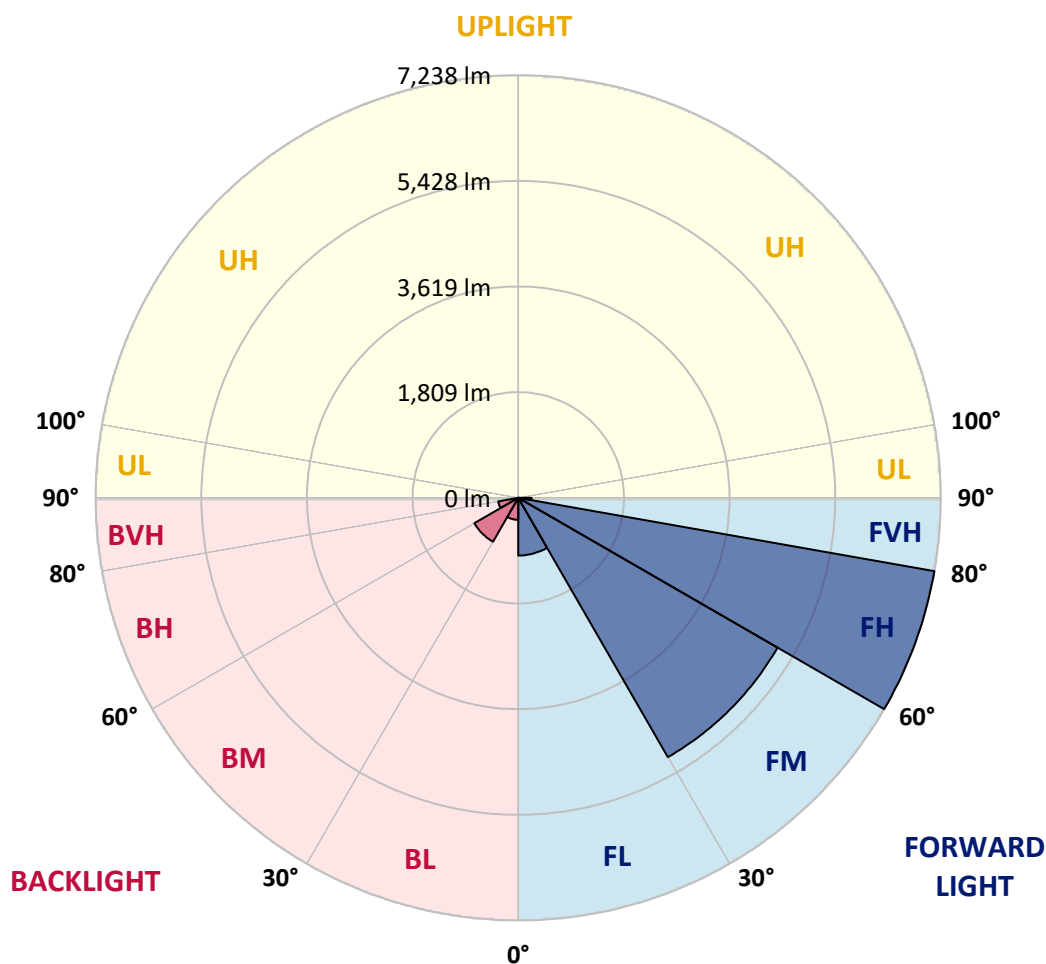
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 988.7  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 5127.9 | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 7238.0 | 47.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 228.6  | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 377.7  | 2.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 867.3  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 347.8  | 2.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.9    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 1662.8 | 1662.8 | 1662.8 | 1662.8 | 1662.8  | 1662.8  | 1662.8  | 1662.8  | 1662.8  | 1662.8  |
| 2.5°  | 1816.1 | 1819.2 | 1817.1 | 1804.7 | 1784.0  | 1772.6  | 1766.4  | 1745.7  | 1732.2  | 1708.4  |
| 5°    | 1982.9 | 1995.3 | 1988.1 | 1963.2 | 1923.9  | 1895.9  | 1887.6  | 1845.1  | 1806.8  | 1762.2  |
| 7.5°  | 2160.1 | 2166.3 | 2152.8 | 2120.7 | 2067.9  | 2020.2  | 2013.0  | 1953.9  | 1892.8  | 1824.4  |
| 10°   | 2313.4 | 2320.6 | 2299.9 | 2253.3 | 2193.2  | 2134.2  | 2123.8  | 2058.5  | 1986.0  | 1902.1  |
| 12.5° | 2441.9 | 2449.1 | 2422.2 | 2366.2 | 2299.9  | 2238.8  | 2228.4  | 2160.1  | 2080.3  | 1987.1  |
| 15°   | 2539.2 | 2552.7 | 2516.4 | 2456.4 | 2384.9  | 2323.8  | 2318.6  | 2251.2  | 2173.5  | 2069.9  |
| 17.5° | 2596.2 | 2609.7 | 2575.5 | 2503.0 | 2441.9  | 2390.1  | 2383.8  | 2327.9  | 2255.4  | 2155.9  |
| 20°   | 2605.5 | 2618.0 | 2581.7 | 2518.5 | 2467.8  | 2426.3  | 2423.2  | 2382.8  | 2330.0  | 2234.7  |
| 22.5° | 2577.6 | 2593.1 | 2560.0 | 2509.2 | 2474.0  | 2452.2  | 2448.1  | 2425.3  | 2395.2  | 2314.4  |
| 25°   | 2548.6 | 2561.0 | 2536.1 | 2491.6 | 2472.9  | 2470.9  | 2474.0  | 2469.8  | 2463.6  | 2395.2  |
| 27.5° | 2546.5 | 2560.0 | 2532.0 | 2489.5 | 2479.2  | 2500.9  | 2504.0  | 2523.7  | 2528.9  | 2468.8  |
| 30°   | 2564.1 | 2573.4 | 2546.5 | 2501.9 | 2496.8  | 2546.5  | 2547.5  | 2582.8  | 2591.0  | 2531.0  |
| 32.5° | 2602.4 | 2612.8 | 2585.9 | 2520.6 | 2513.3  | 2582.8  | 2585.9  | 2632.5  | 2645.9  | 2597.3  |
| 35°   | 2692.6 | 2705.0 | 2673.9 | 2572.4 | 2546.5  | 2616.9  | 2626.3  | 2681.2  | 2708.1  | 2667.7  |
| 37.5° | 2917.4 | 2881.1 | 2838.6 | 2677.0 | 2622.1  | 2670.8  | 2686.4  | 2750.6  | 2798.2  | 2751.6  |
| 40°   | 3475.8 | 3361.8 | 3229.2 | 2855.2 | 2754.7  | 2785.8  | 2798.2  | 2862.5  | 2927.7  | 2882.2  |
| 42.5° | 4313.9 | 4179.2 | 3965.8 | 3265.5 | 2954.7  | 2970.2  | 2979.5  | 3035.5  | 3127.7  | 3091.4  |
| 45°   | 5060.9 | 5012.2 | 4794.6 | 3965.8 | 3328.7  | 3252.0  | 3263.4  | 3292.4  | 3428.1  | 3414.7  |
| 47.5° | 5634.8 | 5606.8 | 5439.0 | 4769.8 | 3960.6  | 3597.0  | 3629.1  | 3642.6  | 3838.4  | 3886.0  |
| 50°   | 6076.1 | 6065.8 | 5915.6 | 5484.6 | 4786.3  | 4105.7  | 4117.1  | 4088.1  | 4381.2  | 4499.4  |
| 52.5° | 6492.6 | 6527.8 | 6417.0 | 6148.7 | 5668.0  | 4771.8  | 4769.8  | 4633.0  | 5028.8  | 5206.9  |
| 55°   | 6868.7 | 6881.1 | 6892.5 | 6826.2 | 6554.8  | 5530.2  | 5510.5  | 5286.7  | 5779.9  | 5964.3  |
| 57.5° | 7222.0 | 7227.1 | 7328.7 | 7464.4 | 7477.9  | 6344.5  | 6308.2  | 6039.9  | 6600.4  | 6731.9  |
| 60°   | 7459.2 | 7483.0 | 7697.5 | 8074.6 | 8239.3  | 7184.7  | 7165.0  | 6891.5  | 7435.4  | 7496.5  |
| 62.5° | 7117.3 | 7262.4 | 7803.2 | 8551.2 | 8958.3  | 8116.0  | 8106.7  | 7849.8  | 8313.9  | 8264.2  |
| 65°   | 5761.2 | 6006.7 | 6957.8 | 8873.4 | 9663.8  | 9156.2  | 9169.6  | 8896.1  | 9216.3  | 9054.7  |
| 67.5° | 4030.0 | 4289.0 | 5414.1 | 8899.3 | 10452.2 | 10377.6 | 10455.3 | 10026.4 | 10174.6 | 9812.0  |
| 70°   | 2786.8 | 2920.5 | 3652.9 | 8341.9 | 11066.6 | 12060.1 | 12058.0 | 11414.7 | 11127.7 | 10157.0 |
| 72.5° | 1874.1 | 1943.5 | 2372.4 | 6618.0 | 10614.9 | 13059.8 | 12999.7 | 12475.5 | 11448.9 | 9499.1  |
| 75°   | 790.5  | 841.2  | 1098.2 | 3719.2 | 8397.8  | 11948.2 | 11785.6 | 11025.1 | 10172.5 | 7479.9  |
| 77.5° | 250.7  | 272.5  | 433.0  | 1331.3 | 4625.7  | 8981.1  | 8809.1  | 6885.3  | 6817.9  | 3752.4  |
| 80°   | 119.1  | 138.8  | 243.5  | 534.6  | 1820.3  | 4884.7  | 4860.9  | 3123.5  | 2932.9  | 1013.2  |
| 82.5° | 51.8   | 61.1   | 134.7  | 285.9  | 814.3   | 1742.6  | 1777.8  | 1062.9  | 879.6   | 384.4   |
| 85°   | 16.6   | 21.8   | 62.2   | 131.6  | 344.0   | 433.0   | 427.9   | 252.8   | 354.3   | 209.3   |
| 87.5° | 0.0    | 0.0    | 20.7   | 30.0   | 35.2    | 24.9    | 28.0    | 21.8    | 98.4    | 58.0    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1662.8 | 0°    | 1662.8 | 1662.8 | 1662.8 | 1662.8 | 1662.8 | 1662.8 | 1662.8 | 1662.8 | 1662.8 | 1662.8 |
| 1683.5 | 2.5°  | 1671.1 | 1654.5 | 1625.5 | 1598.6 | 1574.7 | 1550.9 | 1536.4 | 1515.7 | 1513.6 | 1513.6 |
| 1710.4 | 5°    | 1682.5 | 1655.5 | 1603.7 | 1548.8 | 1485.6 | 1425.5 | 1365.4 | 1307.4 | 1288.8 | 1275.3 |
| 1754.0 | 7.5°  | 1715.6 | 1673.1 | 1591.3 | 1486.7 | 1366.5 | 1234.9 | 1142.7 | 1043.3 | 1004.9 | 984.2  |
| 1812.0 | 10°   | 1763.3 | 1705.3 | 1580.9 | 1397.6 | 1202.8 | 1023.6 | 892.0  | 784.3  | 742.8  | 725.2  |
| 1875.2 | 12.5° | 1816.1 | 1744.6 | 1562.3 | 1286.7 | 1023.6 | 809.1  | 680.7  | 630.9  | 624.7  | 624.7  |
| 1950.8 | 15°   | 1879.3 | 1792.3 | 1530.2 | 1156.2 | 836.1  | 640.2  | 594.7  | 596.7  | 603.0  | 607.1  |
| 2024.3 | 17.5° | 1944.6 | 1843.0 | 1479.4 | 1010.1 | 670.3  | 576.0  | 577.1  | 580.2  | 585.3  | 589.5  |
| 2104.1 | 20°   | 2015.0 | 1893.8 | 1412.1 | 854.7  | 575.0  | 557.4  | 560.5  | 563.6  | 567.7  | 569.8  |
| 2178.7 | 22.5° | 2090.7 | 1941.5 | 1332.3 | 702.4  | 542.9  | 541.8  | 542.9  | 546.0  | 551.2  | 551.2  |
| 2265.7 | 25°   | 2171.5 | 1994.3 | 1241.1 | 591.6  | 526.3  | 526.3  | 528.4  | 530.4  | 534.6  | 534.6  |
| 2349.7 | 27.5° | 2254.3 | 2043.0 | 1144.8 | 533.5  | 511.8  | 510.7  | 510.7  | 513.9  | 515.9  | 517.0  |
| 2432.5 | 30°   | 2345.5 | 2100.0 | 1048.4 | 521.1  | 500.4  | 495.2  | 492.1  | 494.2  | 496.2  | 497.3  |
| 2519.6 | 32.5° | 2438.7 | 2154.9 | 962.4  | 526.3  | 489.0  | 479.7  | 469.3  | 467.2  | 467.2  | 471.4  |
| 2609.7 | 35°   | 2542.3 | 2215.0 | 896.1  | 543.9  | 482.8  | 456.9  | 440.3  | 431.0  | 432.0  | 438.2  |
| 2717.4 | 37.5° | 2666.7 | 2287.5 | 847.4  | 559.4  | 478.6  | 431.0  | 404.0  | 392.6  | 385.4  | 392.6  |
| 2865.6 | 40°   | 2829.3 | 2394.2 | 812.2  | 571.9  | 473.5  | 400.9  | 364.7  | 346.0  | 332.6  | 336.7  |
| 3095.6 | 42.5° | 3068.6 | 2562.0 | 798.8  | 572.9  | 462.1  | 365.7  | 324.3  | 299.4  | 279.7  | 280.8  |
| 3441.6 | 45°   | 3404.3 | 2827.2 | 868.2  | 559.4  | 437.2  | 327.4  | 281.8  | 248.6  | 236.2  | 233.1  |
| 3958.6 | 47.5° | 3864.3 | 3213.7 | 1028.7 | 531.5  | 400.9  | 290.1  | 240.4  | 212.4  | 203.1  | 197.9  |
| 4637.1 | 50°   | 4480.7 | 3709.9 | 1206.9 | 500.4  | 364.7  | 254.9  | 206.2  | 188.6  | 182.3  | 177.2  |
| 5442.1 | 52.5° | 5195.5 | 4213.4 | 1353.0 | 469.3  | 328.4  | 223.8  | 184.4  | 174.0  | 168.9  | 164.7  |
| 6219.1 | 55°   | 5851.3 | 4560.5 | 1344.7 | 436.2  | 293.2  | 198.9  | 168.9  | 162.7  | 156.4  | 152.3  |
| 6888.4 | 57.5° | 6259.5 | 4609.2 | 1108.5 | 399.9  | 252.8  | 179.2  | 154.4  | 150.2  | 143.0  | 137.8  |
| 7467.5 | 60°   | 6447.0 | 4331.5 | 777.0  | 352.2  | 212.4  | 160.6  | 138.8  | 136.8  | 127.4  | 120.2  |
| 8015.5 | 62.5° | 6481.2 | 3815.6 | 518.0  | 293.2  | 177.2  | 143.0  | 123.3  | 120.2  | 107.7  | 95.3   |
| 8461.0 | 65°   | 6342.4 | 3078.0 | 358.5  | 229.0  | 151.3  | 124.3  | 105.7  | 99.5   | 86.0   | 73.6   |
| 8566.7 | 67.5° | 5903.1 | 2161.1 | 249.7  | 164.7  | 128.5  | 98.4   | 83.9   | 81.8   | 71.5   | 61.1   |
| 8028.0 | 70°   | 5098.2 | 1231.8 | 166.8  | 123.3  | 101.5  | 67.3   | 66.3   | 68.4   | 58.0   | 49.7   |
| 6558.9 | 72.5° | 3908.8 | 563.6  | 103.6  | 90.1   | 69.4   | 45.6   | 52.8   | 53.9   | 44.5   | 37.3   |
| 4092.2 | 75°   | 2301.0 | 241.4  | 65.3   | 58.0   | 35.2   | 30.0   | 38.3   | 39.4   | 30.0   | 23.8   |
| 1496.0 | 77.5° | 783.2  | 91.2   | 41.4   | 34.2   | 17.6   | 16.6   | 24.9   | 24.9   | 16.6   | 9.3    |
| 300.4  | 80°   | 178.2  | 34.2   | 20.7   | 13.5   | 8.3    | 7.3    | 8.3    | 7.3    | 4.1    | 1.0    |
| 92.2   | 82.5° | 50.8   | 13.5   | 8.3    | 5.2    | 3.1    | 3.1    | 1.0    | 0.0    | 0.0    | 0.0    |
| 32.1   | 85°   | 14.5   | 6.2    | 2.1    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 11.4   | 87.5° | 6.2    | 1.0    | 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°   |
|--------|
| 1662.8 |
| 1518.8 |
| 1281.5 |
| 987.3  |
| 725.2  |
| 624.7  |
| 607.1  |
| 589.5  |
| 570.8  |
| 553.2  |
| 535.6  |
| 518.0  |
| 499.4  |
| 474.5  |
| 441.3  |
| 390.6  |
| 334.6  |
| 276.6  |
| 229.0  |
| 194.8  |
| 176.1  |
| 163.7  |
| 150.2  |
| 136.8  |
| 118.1  |
| 89.1   |
| 69.4   |
| 58.0   |
| 45.6   |
| 33.2   |
| 20.7   |
| 7.3    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |