

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: P941168

Luminaire Tested: **GLAN-SB4C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941168  
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-SB4C-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 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: 19761 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

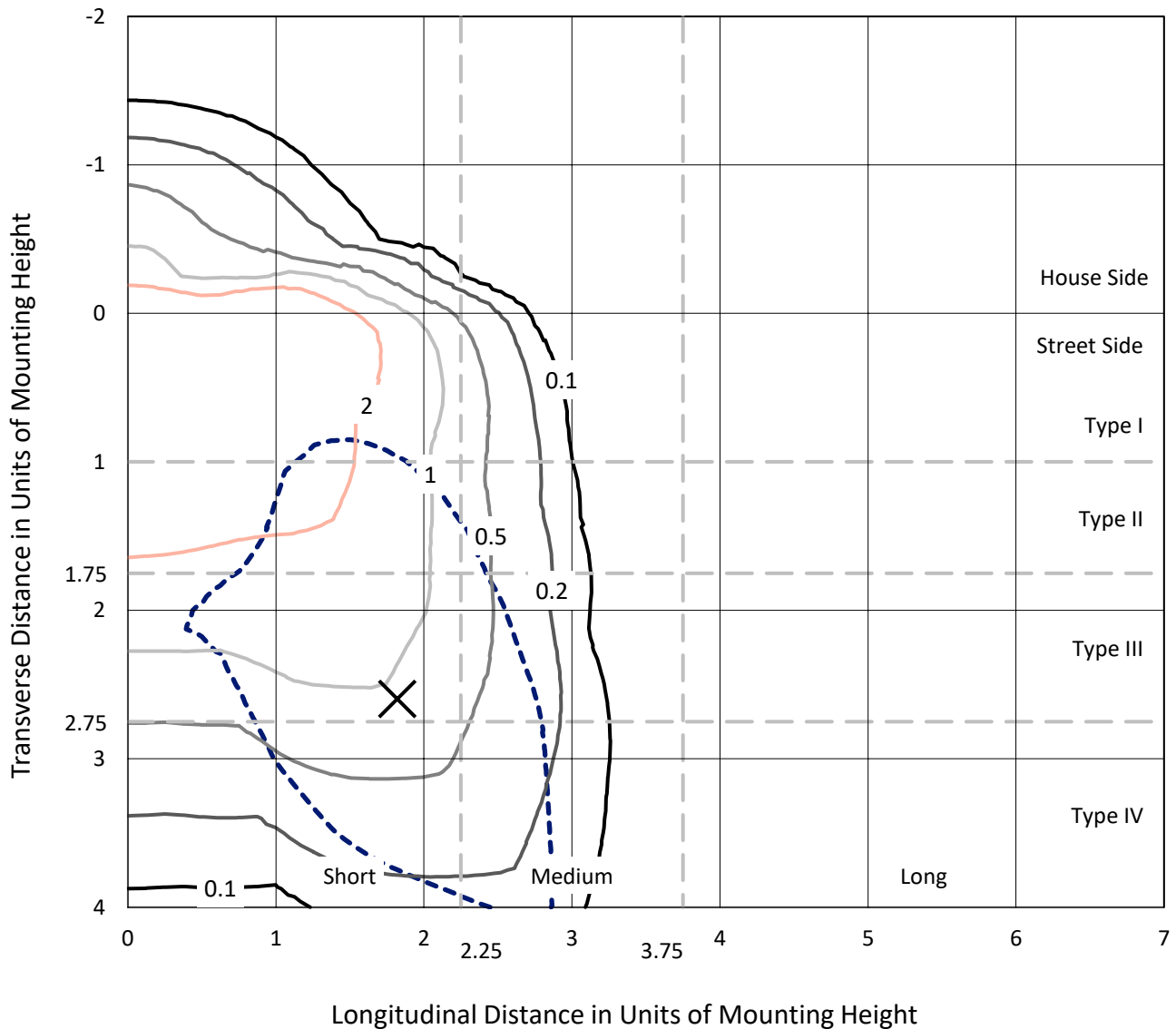
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

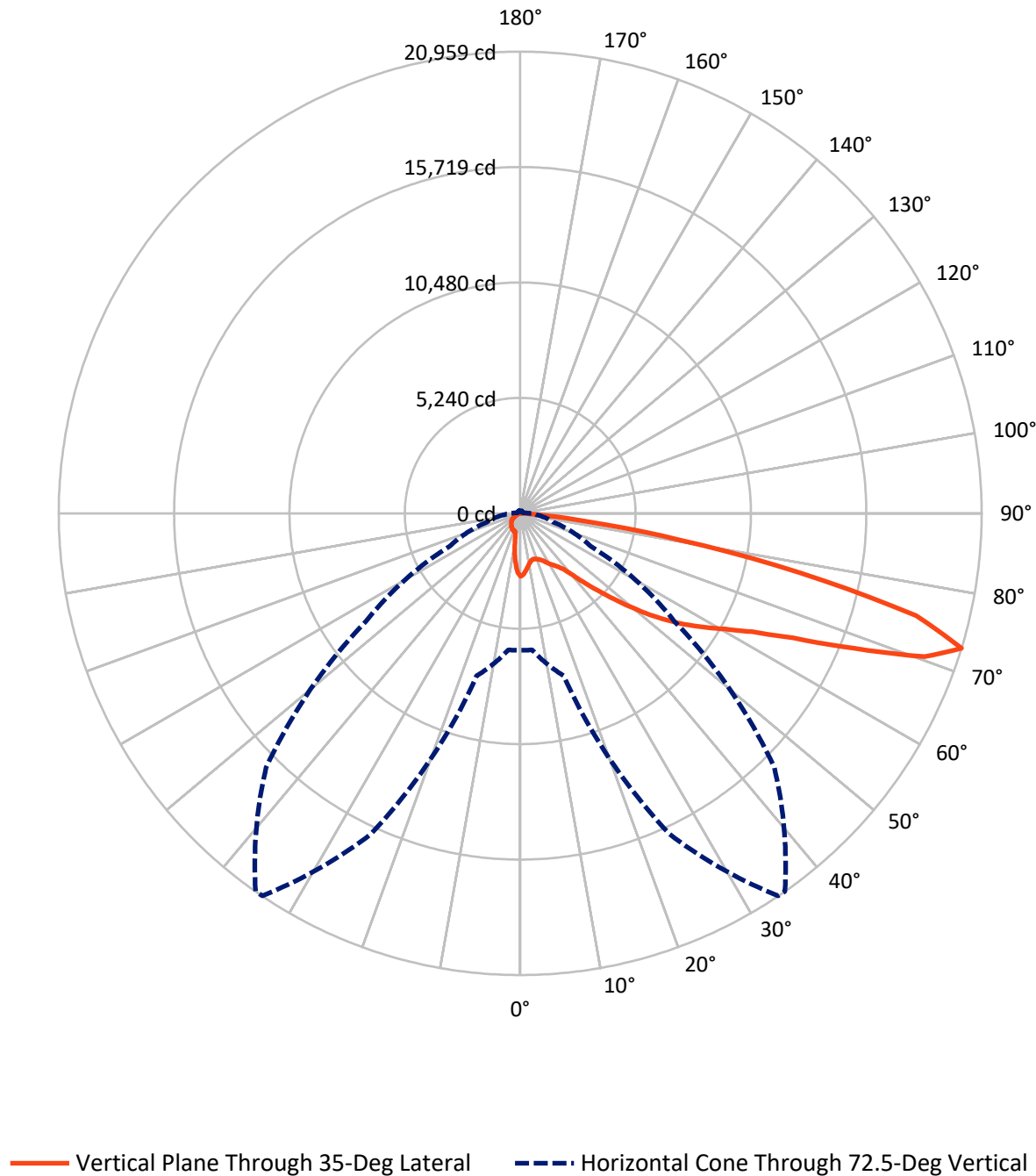
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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    | 2224.0   | 0.0    | 2224.0  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 17537.0  | 0.0    | 17537.0 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 19761.0  | 0.0    | 19761.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 235.3   | 1.2       |
| 10°-20°   | 550.6   | 2.8       |
| 20°-30°   | 894.4   | 4.5       |
| 30°-40°   | 1492.3  | 7.6       |
| 40°-50°   | 2823.4  | 14.3      |
| 50°-60°   | 4486.4  | 22.7      |
| 60°-70°   | 5550.0  | 28.1      |
| 70°-80°   | 3449.9  | 17.5      |
| 80°-90°   | 278.8   | 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°    | 19761.0 | 100.0     |
| 0°-180°   | 19761.0 | 100.0     |

**Coefficient of Utilization**



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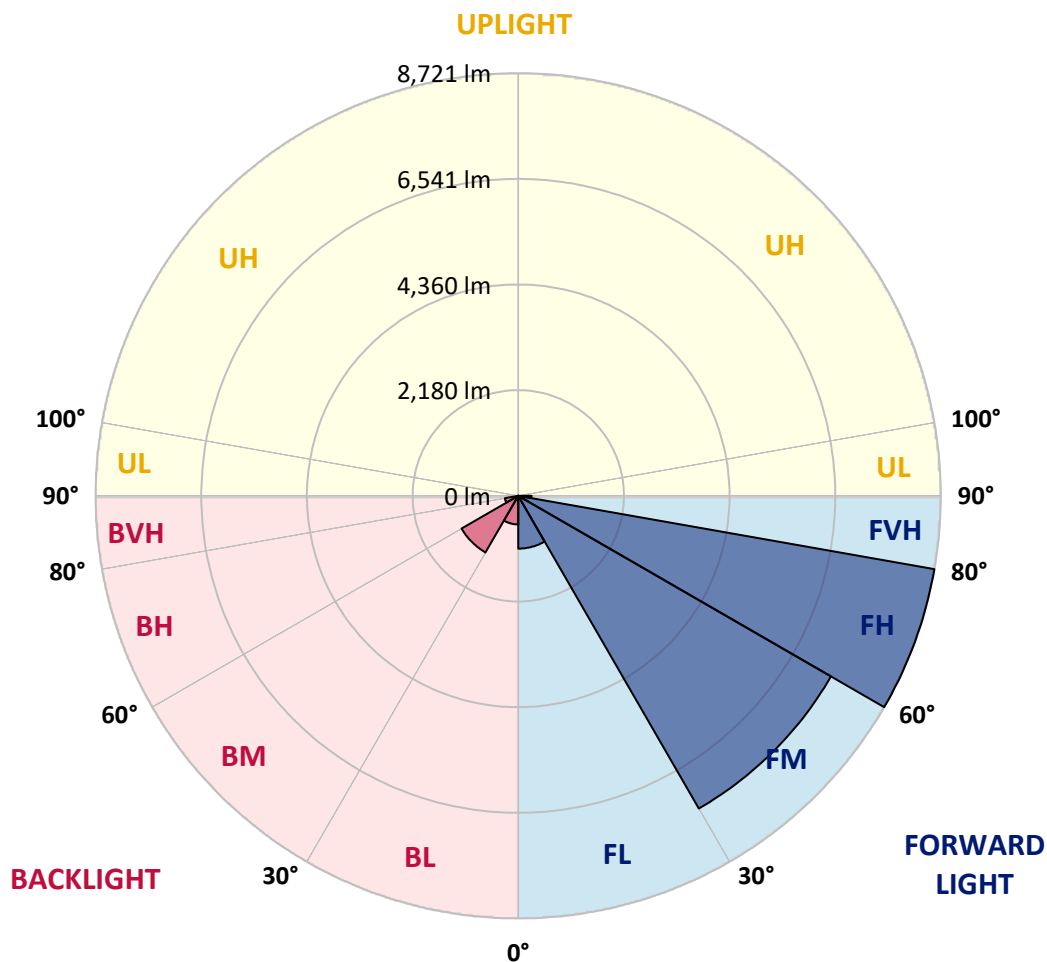
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1089.3 | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 7451.9 | 37.7      |                         |      |          |
| FH   | (60°-80°)   | 8720.8 | 44.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 275.0  | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 591.0  | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1350.2 | 6.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 279.1  | 1.4       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 3.8    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°    | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 0°    | 2864.0  | 2864.0  | 2864.0  | 2864.0  | 2864.0  | 2864.0  | 2864.0  | 2864.0  | 2864.0 | 2864.0  |
| 2.5°  | 2736.6  | 2759.8  | 2764.1  | 2771.4  | 2771.4  | 2780.1  | 2794.5  | 2814.8  | 2848.1 | 2865.5  |
| 5°    | 2522.3  | 2539.7  | 2561.4  | 2578.8  | 2612.1  | 2616.4  | 2672.9  | 2727.9  | 2804.7 | 2862.6  |
| 7.5°  | 2306.6  | 2326.8  | 2355.8  | 2397.8  | 2441.2  | 2454.3  | 2539.7  | 2632.4  | 2754.0 | 2862.6  |
| 10°   | 2154.5  | 2156.0  | 2182.1  | 2224.0  | 2293.5  | 2309.5  | 2413.7  | 2545.5  | 2697.5 | 2845.2  |
| 12.5° | 2069.1  | 2079.2  | 2090.8  | 2122.7  | 2189.3  | 2199.4  | 2310.9  | 2465.8  | 2641.0 | 2835.1  |
| 15°   | 2069.1  | 2076.4  | 2083.6  | 2099.5  | 2153.1  | 2161.8  | 2260.2  | 2415.2  | 2612.1 | 2839.4  |
| 17.5° | 2090.8  | 2102.4  | 2096.6  | 2115.4  | 2171.9  | 2177.7  | 2264.6  | 2400.7  | 2610.6 | 2866.9  |
| 20°   | 2143.0  | 2151.6  | 2140.1  | 2151.6  | 2208.1  | 2219.7  | 2309.5  | 2428.2  | 2635.3 | 2914.7  |
| 22.5° | 2225.5  | 2229.8  | 2202.3  | 2211.0  | 2268.9  | 2283.4  | 2387.7  | 2506.4  | 2694.6 | 2991.5  |
| 25°   | 2329.7  | 2338.4  | 2296.4  | 2306.6  | 2361.6  | 2379.0  | 2499.1  | 2623.7  | 2788.7 | 3097.2  |
| 27.5° | 2449.9  | 2454.3  | 2418.1  | 2416.6  | 2487.6  | 2512.2  | 2633.8  | 2768.5  | 2914.7 | 3230.4  |
| 30°   | 2587.5  | 2600.5  | 2565.8  | 2560.0  | 2649.7  | 2670.0  | 2790.2  | 2946.6  | 3100.0 | 3430.2  |
| 32.5° | 2696.1  | 2706.2  | 2685.9  | 2700.4  | 2791.6  | 2807.6  | 2979.9  | 3198.5  | 3391.1 | 3714.0  |
| 35°   | 2852.4  | 2858.2  | 2811.9  | 2838.0  | 2942.2  | 2982.8  | 3239.0  | 3551.8  | 3757.4 | 4070.2  |
| 37.5° | 3418.6  | 3418.6  | 3221.7  | 3092.8  | 3192.7  | 3228.9  | 3593.8  | 3996.3  | 4209.2 | 4548.0  |
| 40°   | 4201.9  | 4188.9  | 3900.8  | 3637.2  | 3624.2  | 3695.2  | 4099.1  | 4556.7  | 4792.7 | 5121.4  |
| 42.5° | 5037.4  | 5017.1  | 4624.7  | 4364.1  | 4320.7  | 4345.3  | 4682.6  | 5247.3  | 5487.7 | 5820.7  |
| 45°   | 5778.7  | 5772.9  | 5413.9  | 5063.5  | 4985.3  | 5063.5  | 5411.0  | 6055.3  | 6227.6 | 6578.0  |
| 47.5° | 6399.9  | 6399.9  | 6137.8  | 5909.1  | 5868.5  | 5914.8  | 6397.0  | 6951.6  | 6935.6 | 7384.5  |
| 50°   | 7115.2  | 7109.4  | 6860.4  | 6761.9  | 6803.9  | 6869.0  | 7532.2  | 7895.6  | 7668.3 | 8176.5  |
| 52.5° | 7616.2  | 7650.9  | 7565.5  | 7549.6  | 7763.9  | 7876.8  | 8684.8  | 8819.4  | 8324.2 | 8928.0  |
| 55°   | 8012.9  | 8053.5  | 8151.9  | 8263.4  | 8676.1  | 8823.8  | 9801.1  | 9695.4  | 8873.0 | 9579.6  |
| 57.5° | 8574.7  | 8516.8  | 8668.8  | 8888.9  | 9556.4  | 9734.5  | 10882.7 | 10522.2 | 9314.6 | 10108.1 |
| 60°   | 9256.7  | 9265.4  | 9291.5  | 9569.5  | 10435.3 | 10664.1 | 11948.4 | 11304.1 | 9598.4 | 10432.4 |
| 62.5° | 10076.2 | 10089.3 | 10142.8 | 10570.0 | 11615.4 | 11831.1 | 13083.6 | 11944.1 | 9728.7 | 10341.2 |
| 65°   | 10019.8 | 10074.8 | 10672.8 | 12133.8 | 13409.4 | 13622.2 | 14408.5 | 12392.9 | 9531.8 | 9507.2  |
| 67.5° | 9127.8  | 9217.6  | 10218.1 | 14001.6 | 16114.2 | 16351.6 | 16009.9 | 12481.3 | 8681.9 | 7393.2  |
| 70°   | 7957.9  | 7989.8  | 9193.0  | 15681.2 | 19246.1 | 19486.4 | 17443.4 | 11509.7 | 6588.1 | 4123.7  |
| 72.5° | 6214.6  | 6221.8  | 7633.6  | 16070.7 | 20945.9 | 20959.0 | 16318.3 | 8544.3  | 3543.1 | 1584.0  |
| 75°   | 4439.4  | 4396.0  | 5112.7  | 13032.9 | 18428.0 | 18575.7 | 12233.7 | 4007.9  | 1353.8 | 748.6   |
| 77.5° | 2380.4  | 2428.2  | 2893.0  | 7729.1  | 12730.3 | 12982.3 | 6675.0  | 1155.5  | 689.2  | 509.7   |
| 80°   | 735.6   | 776.1   | 1185.9  | 3538.8  | 7210.8  | 7362.8  | 2474.5  | 514.0   | 480.7  | 363.4   |
| 82.5° | 231.7   | 240.4   | 553.1   | 1487.0  | 2992.9  | 3062.4  | 716.7   | 291.0   | 328.7  | 240.4   |
| 85°   | 66.6    | 68.1    | 246.2   | 554.6   | 739.9   | 754.4   | 201.3   | 112.9   | 188.2  | 149.1   |
| 87.5° | 7.2     | 23.2    | 92.7    | 92.7    | 65.2    | 63.7    | 21.7    | 24.6    | 53.6   | 18.8    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2864.0  | 0°    | 2864.0 | 2864.0 | 2864.0 | 2864.0 | 2864.0 | 2864.0 | 2864.0 | 2864.0 | 2864.0 | 2864.0 |
| 2877.1  | 2.5°  | 2869.8 | 2871.3 | 2852.4 | 2820.6 | 2785.8 | 2756.9 | 2720.7 | 2691.7 | 2671.5 | 2665.7 |
| 2903.1  | 5°    | 2890.1 | 2880.0 | 2826.4 | 2729.4 | 2613.5 | 2513.6 | 2402.1 | 2313.8 | 2255.9 | 2231.3 |
| 2930.6  | 7.5°  | 2920.5 | 2891.5 | 2774.3 | 2583.1 | 2361.6 | 2164.7 | 1964.9 | 1809.9 | 1711.5 | 1662.2 |
| 2956.7  | 10°   | 2946.6 | 2888.6 | 2687.4 | 2371.7 | 2032.9 | 1734.6 | 1465.3 | 1278.5 | 1174.3 | 1125.1 |
| 2987.1  | 12.5° | 2971.2 | 2887.2 | 2574.4 | 2121.2 | 1662.2 | 1297.4 | 1046.9 | 954.2  | 925.2  | 915.1  |
| 3036.3  | 15°   | 3017.5 | 2891.5 | 2432.5 | 1834.5 | 1293.0 | 980.3  | 889.0  | 887.6  | 893.4  | 890.5  |
| 3111.6  | 17.5° | 3081.2 | 2895.9 | 2271.8 | 1530.5 | 997.6  | 864.4  | 860.1  | 873.1  | 881.8  | 877.5  |
| 3205.7  | 20°   | 3163.8 | 2913.3 | 2101.0 | 1229.3 | 857.2  | 835.5  | 845.6  | 857.2  | 864.4  | 857.2  |
| 3331.7  | 22.5° | 3279.6 | 2943.7 | 1914.2 | 987.5  | 812.3  | 818.1  | 826.8  | 839.8  | 847.0  | 836.9  |
| 3492.4  | 25°   | 3421.5 | 2991.5 | 1730.3 | 858.6  | 790.6  | 797.8  | 810.8  | 825.3  | 834.0  | 823.9  |
| 3695.2  | 27.5° | 3605.4 | 3068.2 | 1560.9 | 829.7  | 768.9  | 773.2  | 792.0  | 813.7  | 825.3  | 812.3  |
| 3983.3  | 30°   | 3871.8 | 3194.2 | 1414.6 | 842.7  | 755.8  | 745.7  | 771.8  | 802.2  | 815.2  | 803.6  |
| 4375.7  | 32.5° | 4225.1 | 3372.3 | 1324.9 | 863.0  | 750.0  | 713.8  | 738.5  | 777.5  | 799.3  | 792.0  |
| 4888.3  | 35°   | 4688.4 | 3643.0 | 1290.1 | 886.1  | 745.7  | 680.5  | 697.9  | 739.9  | 777.5  | 784.8  |
| 5534.0  | 37.5° | 5250.2 | 4019.5 | 1300.3 | 896.3  | 732.7  | 653.0  | 661.7  | 697.9  | 747.1  | 770.3  |
| 6260.9  | 40°   | 5888.8 | 4458.2 | 1358.2 | 886.1  | 718.2  | 629.9  | 631.3  | 658.8  | 702.3  | 737.0  |
| 7042.8  | 42.5° | 6547.6 | 4970.8 | 1465.3 | 848.5  | 705.1  | 609.6  | 605.2  | 624.1  | 653.0  | 677.6  |
| 7823.2  | 45°   | 7174.6 | 5497.8 | 1571.0 | 796.4  | 689.2  | 589.3  | 579.2  | 586.4  | 592.2  | 602.3  |
| 8583.4  | 47.5° | 7721.9 | 5868.5 | 1540.6 | 748.6  | 667.5  | 566.1  | 548.8  | 545.9  | 528.5  | 527.1  |
| 9262.5  | 50°   | 8099.8 | 5949.6 | 1368.3 | 700.8  | 635.6  | 540.1  | 512.6  | 495.2  | 464.8  | 450.3  |
| 9770.7  | 52.5° | 8220.0 | 5629.6 | 1117.8 | 653.0  | 583.5  | 505.3  | 466.2  | 438.7  | 401.1  | 388.0  |
| 10063.2 | 55°   | 8060.7 | 5002.6 | 893.4  | 595.1  | 511.1  | 459.0  | 415.6  | 379.4  | 349.0  | 333.0  |
| 10095.1 | 57.5° | 7671.2 | 4204.8 | 706.6  | 527.1  | 434.4  | 406.9  | 363.4  | 327.2  | 301.2  | 285.2  |
| 9741.8  | 60°   | 7025.4 | 3339.0 | 558.9  | 446.0  | 370.7  | 350.4  | 305.5  | 282.3  | 259.2  | 240.4  |
| 8829.6  | 62.5° | 6045.2 | 2383.3 | 438.7  | 353.3  | 309.9  | 286.7  | 260.6  | 243.3  | 215.7  | 189.7  |
| 7189.0  | 65°   | 4717.4 | 1458.1 | 338.8  | 259.2  | 249.0  | 237.5  | 221.5  | 205.6  | 172.3  | 146.2  |
| 4689.9  | 67.5° | 2975.5 | 690.7  | 241.8  | 195.5  | 196.9  | 191.1  | 183.9  | 170.9  | 146.2  | 123.1  |
| 2101.0  | 70°   | 1310.4 | 334.5  | 159.3  | 149.1  | 146.2  | 146.2  | 152.0  | 147.7  | 124.5  | 102.8  |
| 729.8   | 72.5° | 446.0  | 179.5  | 118.7  | 112.9  | 105.7  | 104.3  | 127.4  | 123.1  | 99.9   | 79.6   |
| 363.4   | 75°   | 233.1  | 120.2  | 86.9   | 81.1   | 63.7   | 76.7   | 101.4  | 95.6   | 70.9   | 52.1   |
| 240.4   | 77.5° | 152.0  | 85.4   | 59.4   | 52.1   | 36.2   | 50.7   | 75.3   | 66.6   | 42.0   | 26.1   |
| 157.8   | 80°   | 95.6   | 56.5   | 34.8   | 24.6   | 17.4   | 27.5   | 40.5   | 29.0   | 15.9   | 5.8    |
| 92.7    | 82.5° | 50.7   | 29.0   | 13.0   | 8.7    | 7.2    | 8.7    | 10.1   | 7.2    | 2.9    | 0.0    |
| 47.8    | 85°   | 20.3   | 10.1   | 4.3    | 2.9    | 1.4    | 0.0    | 2.9    | 1.4    | 0.0    | 0.0    |
| 8.7     | 87.5° | 7.2    | 1.4    | 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°   |
|--------|
| 2864.0 |
| 2675.8 |
| 2240.0 |
| 1669.5 |
| 1126.5 |
| 912.2  |
| 889.0  |
| 876.0  |
| 855.7  |
| 835.5  |
| 822.4  |
| 812.3  |
| 802.2  |
| 792.0  |
| 784.8  |
| 776.1  |
| 748.6  |
| 687.8  |
| 608.1  |
| 525.6  |
| 451.8  |
| 386.6  |
| 333.0  |
| 282.3  |
| 236.0  |
| 185.3  |
| 141.9  |
| 120.2  |
| 98.5   |
| 75.3   |
| 47.8   |
| 23.2   |
| 4.3    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |