

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: P940005

Luminaire Tested: **GLAN-SB2D-840-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-840-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19287 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6  
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

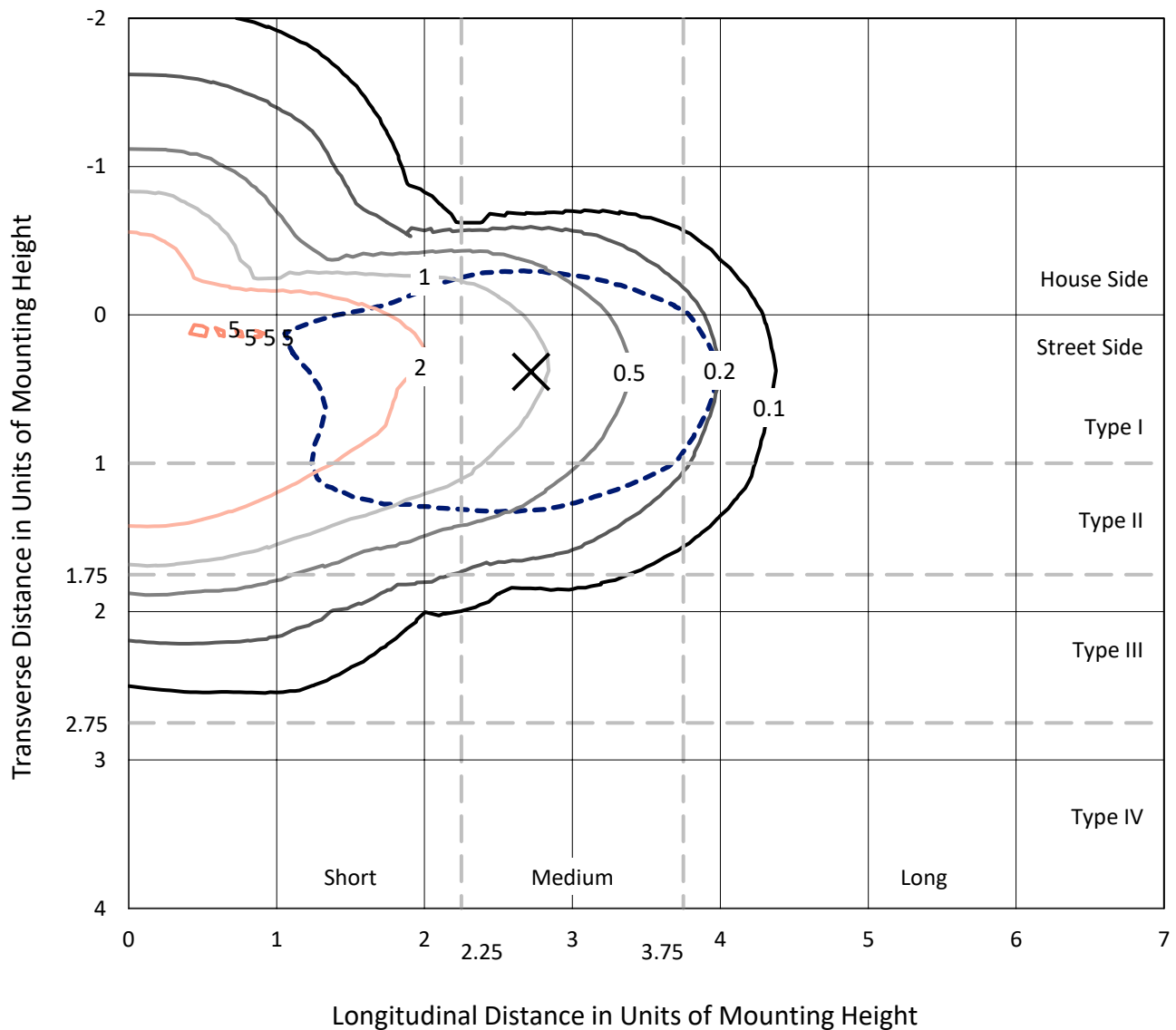


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## Iso-Footcandle Lines of Horizontal Illumination

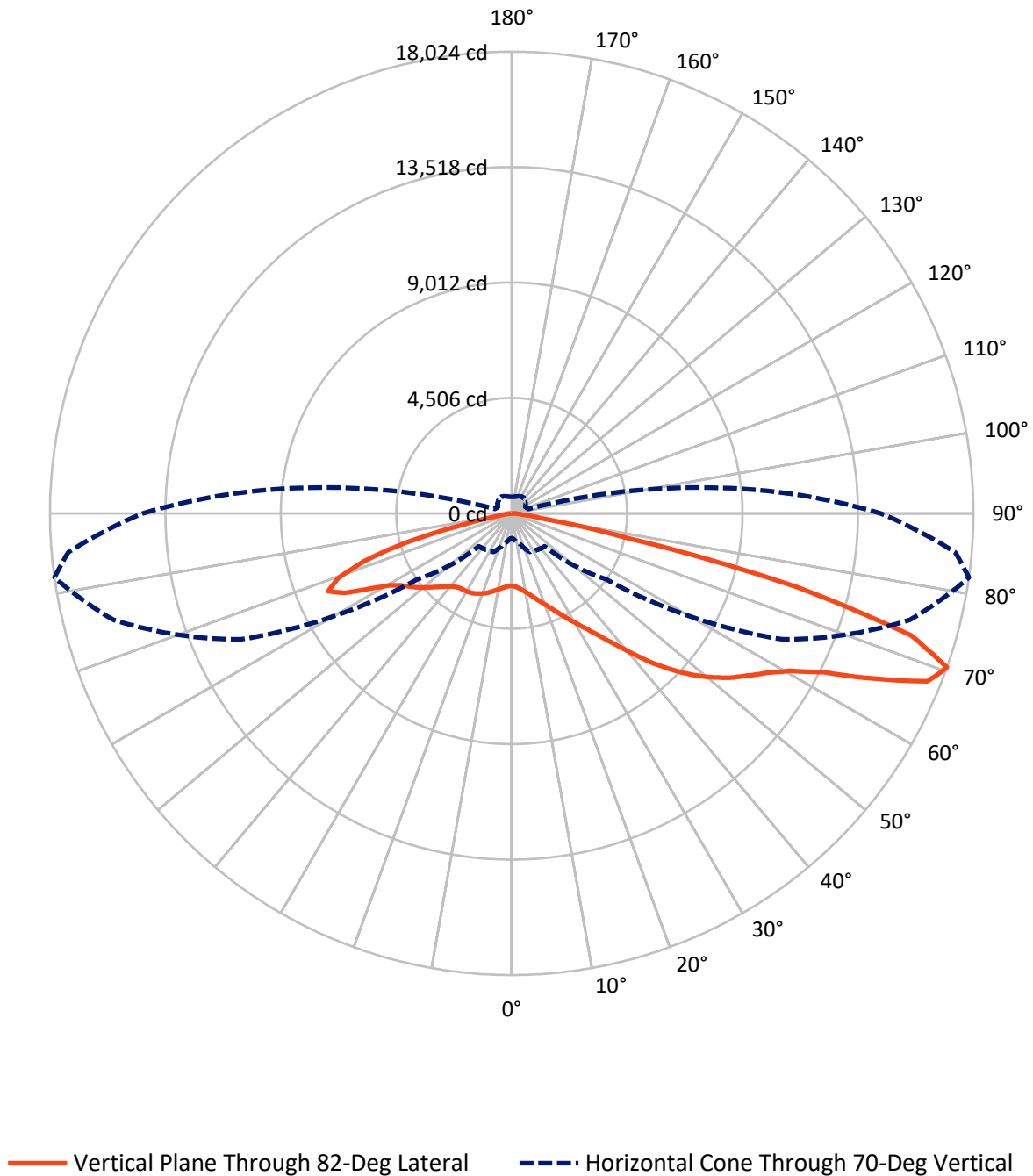
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4754.7   | 0.0    | 4754.7  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 14532.3  | 0.0    | 14532.3 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 19287.0  | 0.0    | 19287.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 267.0   | 1.4       |
| 10°-20°   | 767.1   | 4.0       |
| 20°-30°   | 1283.2  | 6.7       |
| 30°-40°   | 2004.7  | 10.4      |
| 40°-50°   | 3192.8  | 16.6      |
| 50°-60°   | 4443.1  | 23.0      |
| 60°-70°   | 4647.7  | 24.1      |
| 70°-80°   | 2429.1  | 12.6      |
| 80°-90°   | 252.2   | 1.3       |
| 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°    | 19287.0 | 100.0     |
| 0°-180°   | 19287.0 | 100.0     |

**Coefficient of Utilization**



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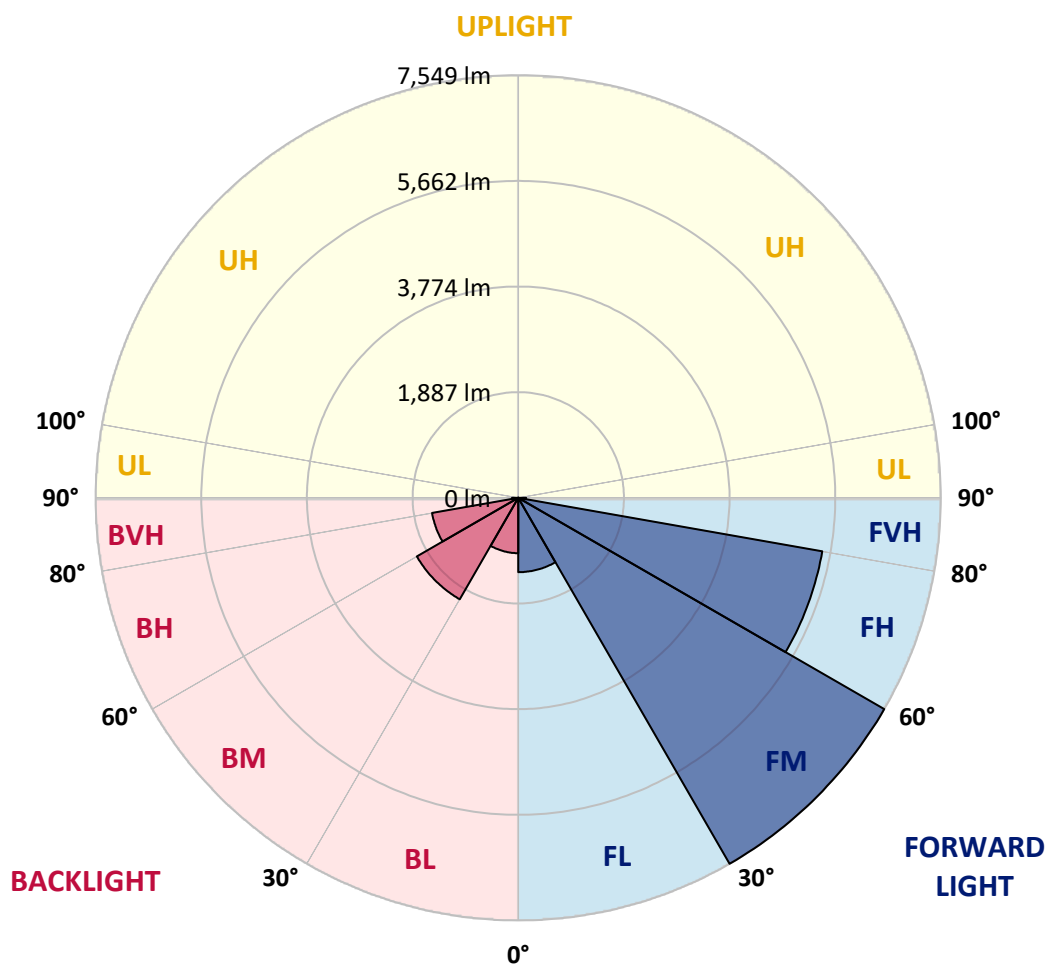
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1328.1 | 6.9       |                         |      |         |
| FM   | (30°-60°)   | 7548.7 | 39.1      |                         |      |         |
| FH   | (60°-80°)   | 5514.2 | 28.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 141.2  | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 989.2  | 5.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2091.9 | 10.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1562.6 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 111.0  | 0.6       |                         |      | G2/225  |
| 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°    | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7  | 2827.7  | 2827.7  | 2827.7  |
| 2.5°  | 2895.3 | 2911.6 | 2906.5 | 2901.4 | 2901.4 | 2894.2 | 2893.2  | 2883.0  | 2874.8  | 2861.5  |
| 5°    | 2932.1 | 2949.5 | 2947.5 | 2951.5 | 2964.9 | 2967.9 | 2971.0  | 2964.9  | 2948.5  | 2932.1  |
| 7.5°  | 2899.4 | 2918.8 | 2924.9 | 2949.5 | 2990.4 | 3027.3 | 3054.9  | 3066.2  | 3050.8  | 3027.3  |
| 10°   | 2788.8 | 2810.3 | 2831.8 | 2890.1 | 2962.8 | 3049.8 | 3123.5  | 3167.5  | 3164.4  | 3141.9  |
| 12.5° | 2564.7 | 2587.2 | 2633.3 | 2746.9 | 2879.9 | 3033.4 | 3170.6  | 3262.7  | 3294.4  | 3278.0  |
| 15°   | 2385.6 | 2405.0 | 2439.8 | 2556.5 | 2729.5 | 2962.8 | 3188.0  | 3367.1  | 3447.9  | 3438.7  |
| 17.5° | 2380.5 | 2388.7 | 2410.2 | 2465.4 | 2598.5 | 2852.3 | 3169.5  | 3469.4  | 3623.9  | 3622.9  |
| 20°   | 2470.5 | 2473.6 | 2485.9 | 2497.2 | 2572.9 | 2768.4 | 3122.5  | 3554.3  | 3821.5  | 3821.5  |
| 22.5° | 2595.4 | 2593.4 | 2605.6 | 2595.4 | 2632.2 | 2761.2 | 3092.8  | 3629.1  | 4041.5  | 4057.9  |
| 25°   | 2782.7 | 2772.5 | 2769.4 | 2745.8 | 2753.0 | 2827.7 | 3125.5  | 3714.0  | 4302.5  | 4336.2  |
| 27.5° | 3032.4 | 3016.0 | 3004.8 | 2950.5 | 2932.1 | 2964.9 | 3225.8  | 3816.3  | 4593.1  | 4651.5  |
| 30°   | 3357.8 | 3328.2 | 3311.8 | 3217.6 | 3151.1 | 3156.2 | 3377.3  | 3952.5  | 4897.1  | 4991.2  |
| 32.5° | 3802.0 | 3756.0 | 3712.0 | 3557.4 | 3435.6 | 3395.7 | 3572.8  | 4140.8  | 5226.6  | 5377.1  |
| 35°   | 4299.4 | 4262.6 | 4215.5 | 3977.0 | 3789.7 | 3697.6 | 3836.8  | 4403.8  | 5612.4  | 5850.9  |
| 37.5° | 4778.4 | 4746.6 | 4769.1 | 4447.8 | 4206.3 | 4072.2 | 4182.7  | 4756.9  | 6088.3  | 6440.4  |
| 40°   | 5273.7 | 5249.1 | 5252.2 | 4945.2 | 4663.7 | 4513.3 | 4602.3  | 5200.0  | 6633.8  | 7141.4  |
| 42.5° | 5812.0 | 5793.6 | 5732.2 | 5460.0 | 5143.7 | 5003.5 | 5085.4  | 5711.7  | 7219.2  | 7939.7  |
| 45°   | 6414.8 | 6403.6 | 6346.2 | 6034.1 | 5671.8 | 5514.2 | 5624.7  | 6276.6  | 7807.7  | 8690.9  |
| 47.5° | 6935.7 | 6944.9 | 6937.8 | 6674.8 | 6299.2 | 6067.9 | 6199.9  | 6866.1  | 8355.2  | 9397.1  |
| 50°   | 7186.5 | 7234.6 | 7305.2 | 7223.3 | 6990.0 | 6754.6 | 6780.2  | 7435.2  | 8877.2  | 10059.2 |
| 52.5° | 7055.5 | 7146.6 | 7339.0 | 7470.0 | 7560.0 | 7510.9 | 7442.3  | 8000.1  | 9368.4  | 10656.9 |
| 55°   | 6567.3 | 6695.2 | 7014.5 | 7330.8 | 7790.3 | 8147.5 | 8237.5  | 8626.4  | 9847.4  | 11182.9 |
| 57.5° | 5677.9 | 5885.7 | 6172.3 | 6811.9 | 7585.6 | 8455.5 | 9164.7  | 9495.3  | 10355.0 | 11744.8 |
| 60°   | 4153.0 | 4431.4 | 4787.6 | 5739.4 | 6869.2 | 8290.7 | 9953.8  | 10829.9 | 11076.5 | 12472.4 |
| 62.5° | 2657.8 | 2829.8 | 3157.3 | 4053.8 | 5352.5 | 7446.4 | 10195.3 | 12498.0 | 12299.5 | 13665.8 |
| 65°   | 1819.6 | 1930.2 | 2230.0 | 2733.6 | 3460.2 | 5542.9 | 9548.5  | 13748.7 | 14241.9 | 15557.0 |
| 67.5° | 1322.3 | 1406.2 | 1662.0 | 2103.1 | 2254.6 | 3280.1 | 7409.6  | 13691.3 | 16130.2 | 17505.6 |
| 70°   | 964.1  | 1023.4 | 1238.3 | 1662.0 | 1734.7 | 1824.8 | 4488.7  | 11638.4 | 16089.2 | 18023.5 |
| 72.5° | 714.3  | 755.3  | 899.6  | 1289.5 | 1404.1 | 1232.2 | 2221.8  | 8458.6  | 13825.4 | 16302.1 |
| 75°   | 516.8  | 547.5  | 654.0  | 986.6  | 1123.7 | 938.5  | 1108.4  | 4943.1  | 9643.7  | 11467.4 |
| 77.5° | 395.0  | 418.6  | 488.2  | 722.5  | 899.6  | 704.1  | 687.7   | 2274.0  | 4572.7  | 4595.2  |
| 80°   | 317.3  | 332.6  | 370.5  | 508.6  | 689.8  | 527.1  | 448.3   | 918.0   | 1445.1  | 1223.0  |
| 82.5° | 233.3  | 258.9  | 313.2  | 357.2  | 493.3  | 363.3  | 273.3   | 463.6   | 549.6   | 472.8   |
| 85°   | 133.0  | 150.4  | 189.3  | 255.9  | 315.2  | 222.1  | 156.6   | 205.7   | 255.9   | 209.8   |
| 87.5° | 47.1   | 61.4   | 66.5   | 100.3  | 137.1  | 92.1   | 60.4    | 59.4    | 83.9    | 62.4    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2827.7  | 0°    | 2827.7  | 2827.7  | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 |
| 2858.4  | 2.5°  | 2848.2  | 2843.1  | 2822.6 | 2795.0 | 2766.3 | 2738.7 | 2729.5 | 2710.0 | 2696.7 | 2689.6 |
| 2924.9  | 5°    | 2905.5  | 2889.1  | 2841.0 | 2779.6 | 2715.1 | 2645.5 | 2596.4 | 2551.4 | 2518.6 | 2487.9 |
| 3016.0  | 7.5°  | 2987.4  | 2958.7  | 2875.8 | 2768.4 | 2653.7 | 2538.1 | 2452.1 | 2386.6 | 2342.6 | 2314.0 |
| 3122.5  | 10°   | 3082.5  | 3038.5  | 2911.6 | 2751.0 | 2573.9 | 2408.1 | 2306.8 | 2250.5 | 2222.9 | 2207.5 |
| 3244.2  | 12.5° | 3192.1  | 3129.6  | 2948.5 | 2711.0 | 2452.1 | 2262.8 | 2193.2 | 2176.8 | 2177.8 | 2178.9 |
| 3397.8  | 15°   | 3327.1  | 3240.2  | 2978.2 | 2624.1 | 2293.5 | 2151.2 | 2139.0 | 2165.6 | 2193.2 | 2206.5 |
| 3571.7  | 17.5° | 3479.6  | 3356.8  | 2983.3 | 2480.8 | 2137.9 | 2079.6 | 2118.5 | 2175.8 | 2217.8 | 2236.2 |
| 3766.2  | 20°   | 3643.4  | 3475.5  | 2946.4 | 2278.1 | 2010.0 | 2021.3 | 2090.9 | 2164.5 | 2210.6 | 2234.1 |
| 3988.3  | 22.5° | 3830.7  | 3602.4  | 2858.4 | 2065.3 | 1905.6 | 1957.8 | 2039.7 | 2111.3 | 2159.4 | 2183.0 |
| 4249.2  | 25°   | 4044.6  | 3744.7  | 2720.3 | 1886.2 | 1815.6 | 1886.2 | 1968.0 | 2027.4 | 2066.3 | 2087.8 |
| 4540.9  | 27.5° | 4282.0  | 3893.1  | 2536.0 | 1743.9 | 1736.7 | 1812.5 | 1880.0 | 1926.1 | 1946.5 | 1962.9 |
| 4851.0  | 30°   | 4520.5  | 4028.2  | 2312.9 | 1636.5 | 1668.2 | 1739.8 | 1787.9 | 1808.4 | 1814.5 | 1817.6 |
| 5196.9  | 32.5° | 4778.4  | 4144.9  | 2078.6 | 1547.4 | 1602.7 | 1669.2 | 1697.9 | 1707.1 | 1678.4 | 1659.0 |
| 5616.5  | 35°   | 5090.5  | 4269.7  | 1849.3 | 1476.8 | 1538.2 | 1595.5 | 1604.7 | 1596.5 | 1562.8 | 1522.9 |
| 6142.6  | 37.5° | 5476.3  | 4425.3  | 1666.1 | 1426.7 | 1477.8 | 1515.7 | 1504.4 | 1502.4 | 1505.5 | 1458.4 |
| 6775.1  | 40°   | 5949.2  | 4627.9  | 1532.1 | 1387.8 | 1428.7 | 1436.9 | 1405.2 | 1422.6 | 1437.9 | 1366.3 |
| 7468.9  | 42.5° | 6474.2  | 4872.5  | 1447.1 | 1361.2 | 1387.8 | 1368.3 | 1319.2 | 1338.6 | 1336.6 | 1242.4 |
| 8165.9  | 45°   | 7009.4  | 5138.6  | 1417.4 | 1341.7 | 1349.9 | 1311.0 | 1256.8 | 1261.9 | 1218.9 | 1134.0 |
| 8834.2  | 47.5° | 7541.6  | 5424.1  | 1435.9 | 1325.3 | 1302.8 | 1258.8 | 1216.8 | 1194.3 | 1130.9 | 1067.4 |
| 9474.8  | 50°   | 8063.5  | 5724.0  | 1503.4 | 1292.6 | 1238.3 | 1212.8 | 1182.1 | 1142.1 | 1074.6 | 1020.4 |
| 10080.7 | 52.5° | 8547.6  | 6025.9  | 1579.1 | 1238.3 | 1157.5 | 1172.8 | 1153.4 | 1107.3 | 1040.8 | 985.6  |
| 10653.8 | 55°   | 9006.1  | 6327.8  | 1608.8 | 1163.6 | 1081.8 | 1138.0 | 1126.8 | 1041.8 | 962.0  | 917.0  |
| 11253.5 | 57.5° | 9505.5  | 6691.1  | 1576.1 | 1068.5 | 1020.4 | 1098.1 | 1055.1 | 961.0  | 914.9  | 881.2  |
| 12034.4 | 60°   | 10197.4 | 7261.2  | 1505.5 | 950.8  | 962.0  | 1038.8 | 965.1  | 926.2  | 876.0  | 838.2  |
| 13205.2 | 62.5° | 11346.7 | 8324.5  | 1391.9 | 834.1  | 893.4  | 950.8  | 922.1  | 883.2  | 832.0  | 795.2  |
| 15207.0 | 65°   | 13045.6 | 9802.3  | 1178.0 | 743.0  | 816.7  | 864.8  | 876.0  | 837.2  | 783.9  | 745.1  |
| 16961.2 | 67.5° | 14478.4 | 10729.6 | 891.4  | 667.3  | 737.9  | 795.2  | 826.9  | 789.1  | 732.8  | 694.9  |
| 17371.6 | 70°   | 14399.5 | 10056.1 | 680.6  | 592.6  | 668.3  | 726.6  | 767.6  | 737.9  | 677.5  | 641.7  |
| 15779.1 | 72.5° | 12789.7 | 8412.5  | 550.6  | 516.8  | 597.7  | 655.0  | 704.1  | 681.6  | 620.2  | 585.4  |
| 11559.6 | 75°   | 9396.0  | 5971.7  | 440.1  | 440.1  | 509.7  | 580.3  | 634.5  | 620.2  | 563.9  | 539.3  |
| 4853.1  | 77.5° | 3960.6  | 2505.3  | 344.9  | 365.4  | 423.7  | 498.4  | 566.0  | 571.1  | 521.9  | 552.6  |
| 1283.4  | 80°   | 1053.1  | 690.8   | 263.0  | 287.6  | 332.6  | 411.4  | 492.3  | 490.2  | 437.0  | 408.3  |
| 476.9   | 82.5° | 401.2   | 272.2   | 187.3  | 202.6  | 240.5  | 315.2  | 389.9  | 402.2  | 349.0  | 301.9  |
| 187.3   | 85°   | 154.5   | 116.7   | 115.6  | 121.8  | 140.2  | 208.8  | 294.7  | 305.0  | 263.0  | 223.1  |
| 52.2    | 87.5° | 39.9    | 34.8    | 43.0   | 40.9   | 64.5   | 111.6  | 168.9  | 175.0  | 160.7  | 93.1   |
| 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°   |
|--------|
| 2827.7 |
| 2697.7 |
| 2500.2 |
| 2320.1 |
| 2211.6 |
| 2180.9 |
| 2205.5 |
| 2240.3 |
| 2240.3 |
| 2189.1 |
| 2093.9 |
| 1969.1 |
| 1824.8 |
| 1665.1 |
| 1524.9 |
| 1461.4 |
| 1368.3 |
| 1241.4 |
| 1137.0 |
| 1067.4 |
| 1016.3 |
| 986.6  |
| 912.9  |
| 878.1  |
| 836.1  |
| 795.2  |
| 747.1  |
| 695.9  |
| 644.8  |
| 585.4  |
| 532.2  |
| 501.5  |
| 379.7  |
| 301.9  |
| 230.3  |
| 133.0  |
| 0.0    |