

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: P947557

Luminaire Tested: **GLAN-SB2D-840-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-840-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19983 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - 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



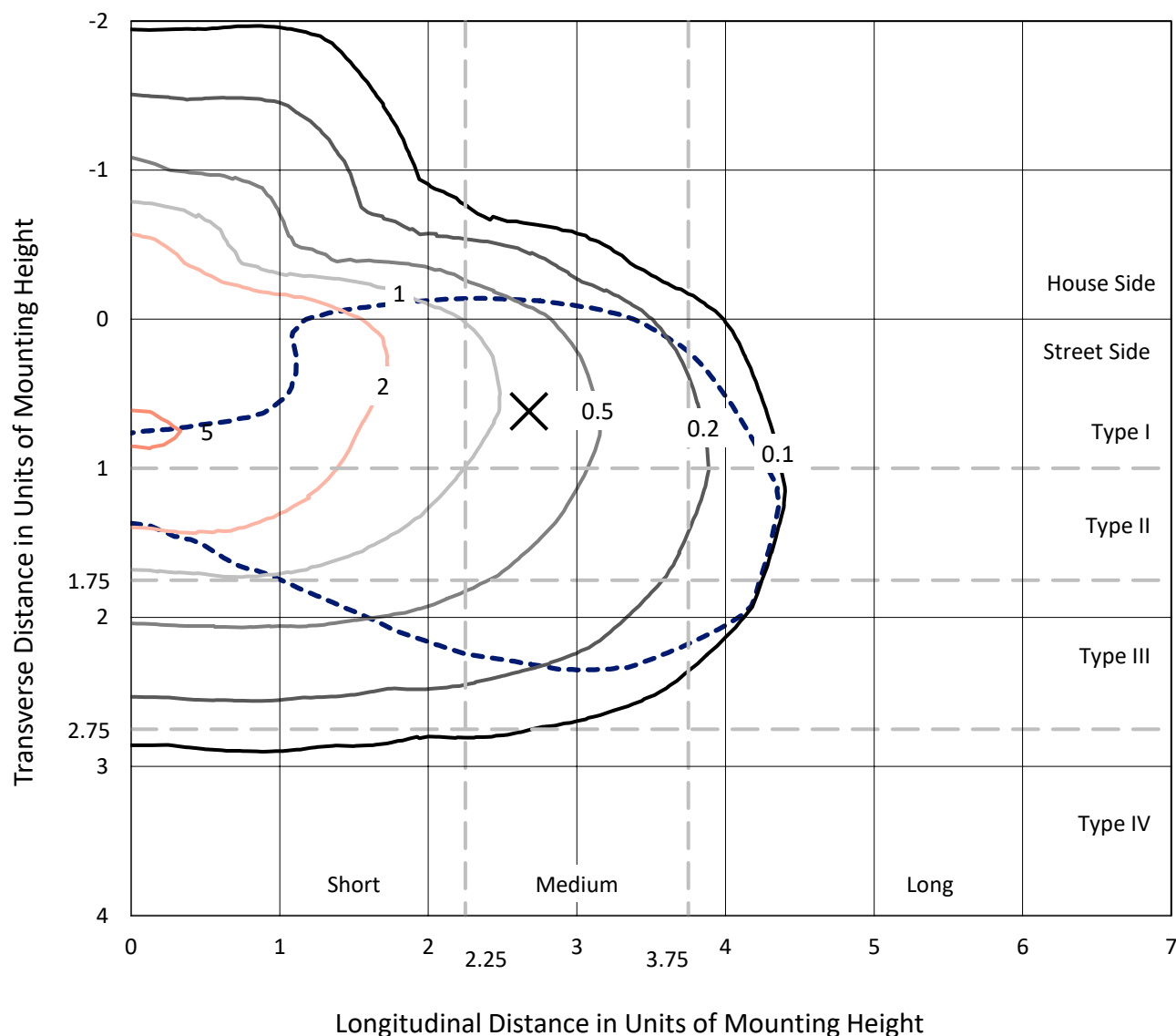
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



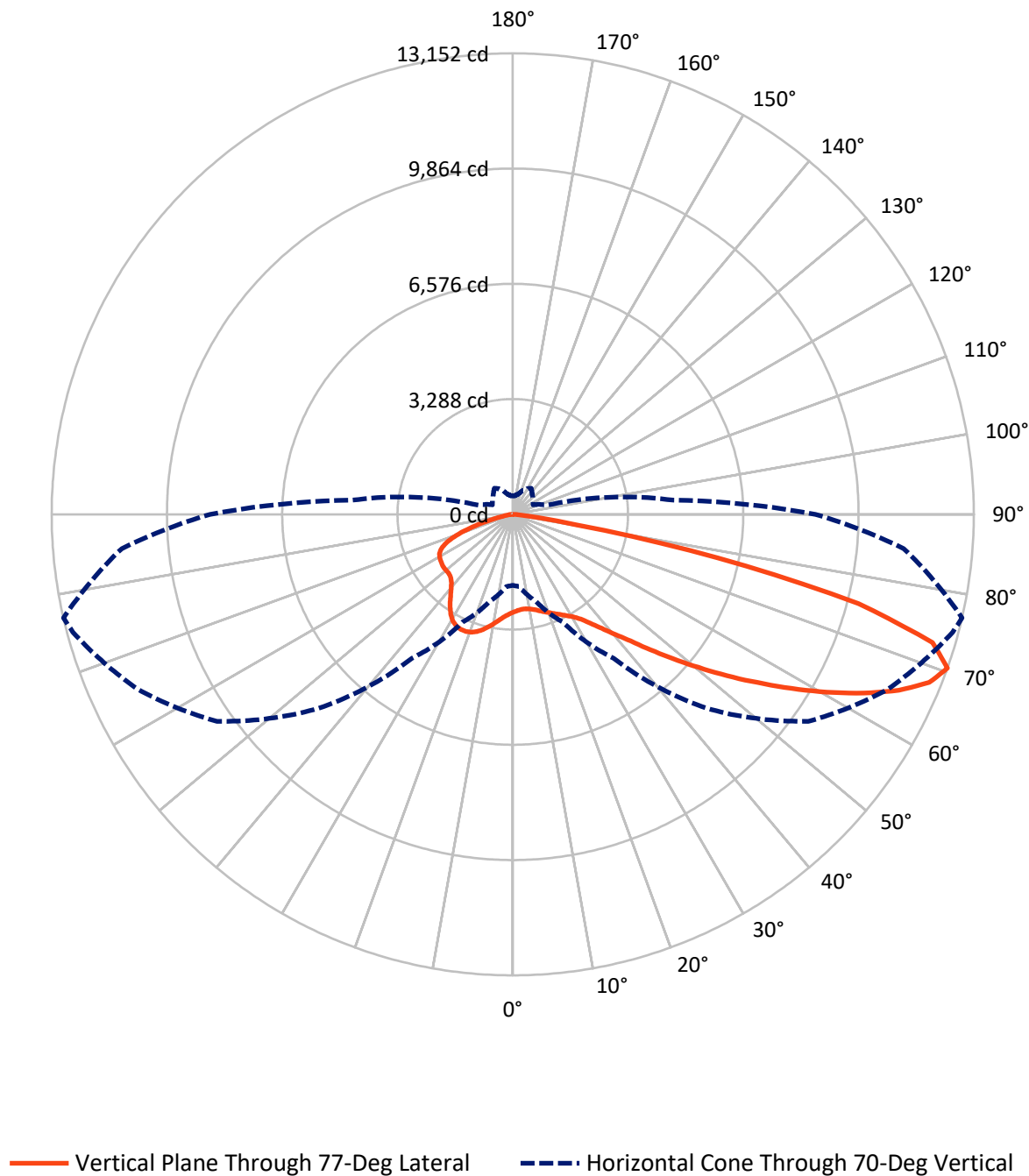
Based on 25 foot mounting height. Maximum calculated value = 5.3 fc

Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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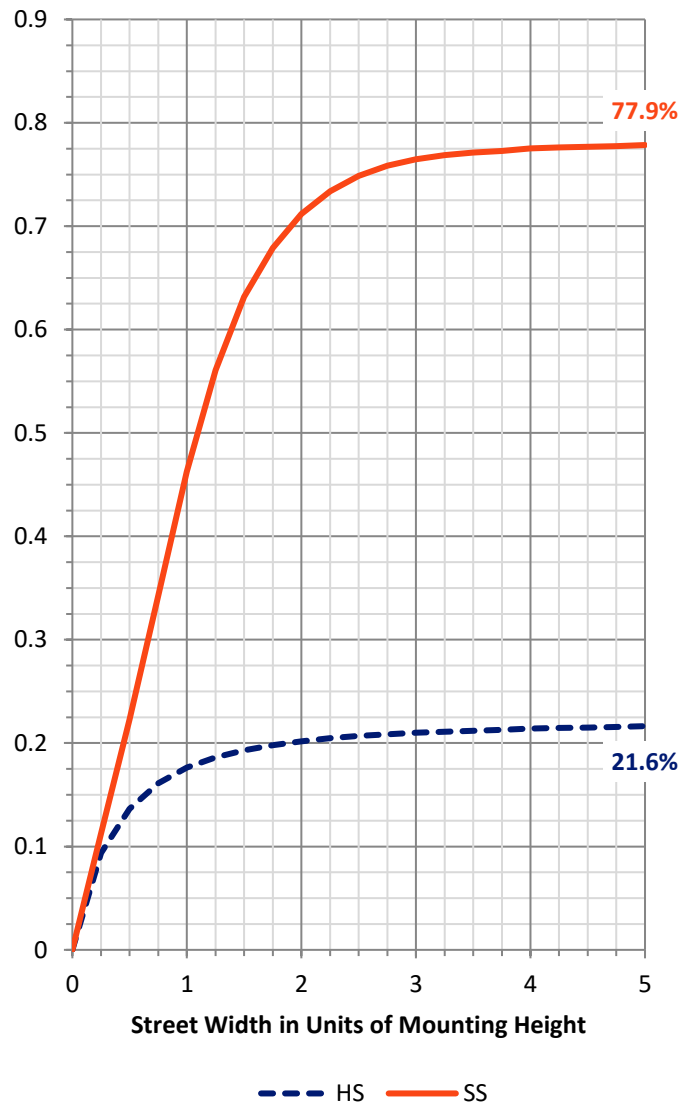
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4376.0   | 0.0    | 4376.0  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 15607.0  | 0.0    | 15607.0 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 19983.0  | 0.0    | 19983.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 265.9   | 1.3       |
| 10°-20°   | 767.4   | 3.8       |
| 20°-30°   | 1312.3  | 6.6       |
| 30°-40°   | 2110.3  | 10.6      |
| 40°-50°   | 3294.7  | 16.5      |
| 50°-60°   | 4401.0  | 22.0      |
| 60°-70°   | 4690.8  | 23.5      |
| 70°-80°   | 2887.6  | 14.5      |
| 80°-90°   | 253.0   | 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°    | 19983.0 | 100.0     |
| 0°-180°   | 19983.0 | 100.0     |

**Coefficient of Utilization**



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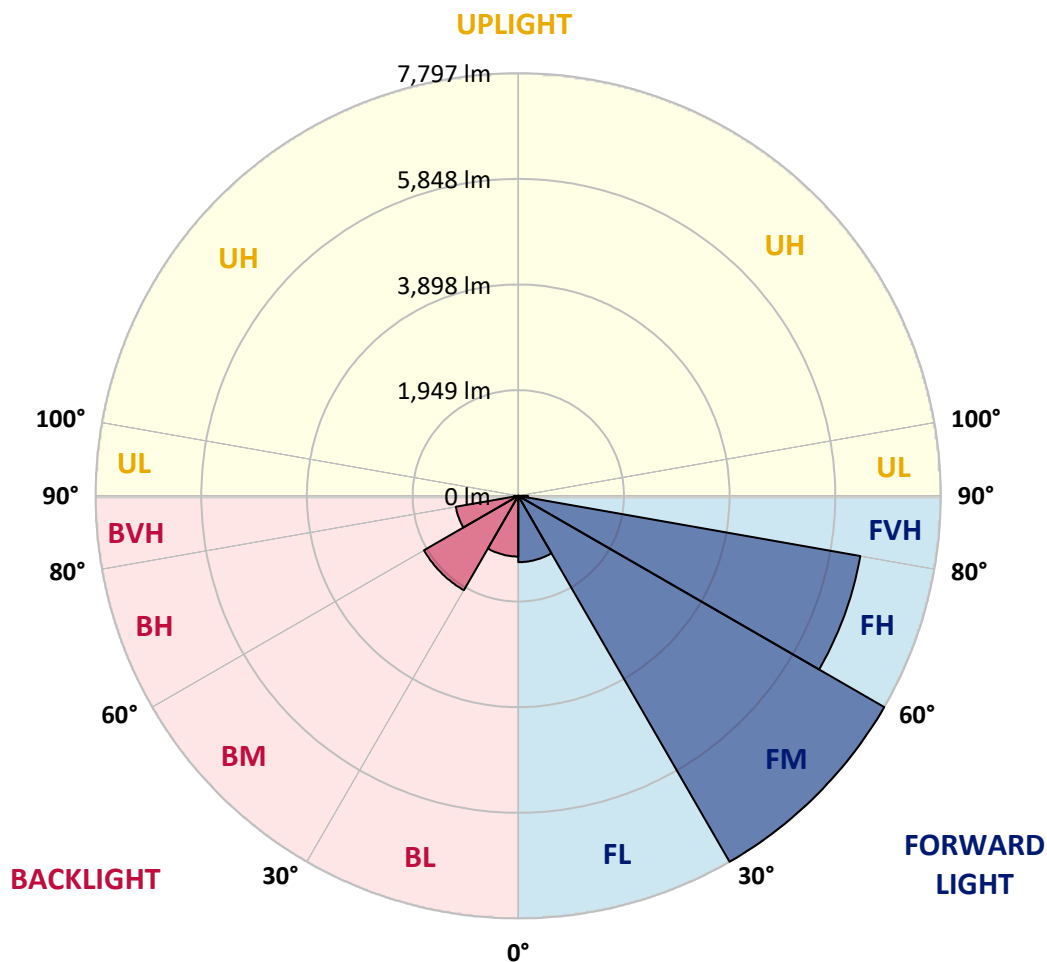
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1224.3 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 7796.9 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 6408.9 | 32.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 176.9  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1121.3 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2009.1 | 10.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1169.5 | 5.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 76.1   | 0.4       |                         |      | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8  | 2787.8  | 2787.8  | 2787.8  |
| 2.5°  | 2569.8 | 2568.8 | 2582.1 | 2586.2 | 2610.8 | 2628.2 | 2660.9  | 2695.7  | 2740.7  | 2745.9  |
| 5°    | 2421.4 | 2421.4 | 2436.8 | 2453.2 | 2484.9 | 2519.7 | 2569.8  | 2630.2  | 2708.0  | 2720.3  |
| 7.5°  | 2295.5 | 2303.7 | 2317.0 | 2348.8 | 2385.6 | 2435.8 | 2512.5  | 2598.5  | 2700.8  | 2720.3  |
| 10°   | 2194.2 | 2203.4 | 2219.8 | 2245.4 | 2300.7 | 2370.3 | 2470.5  | 2581.1  | 2718.2  | 2748.9  |
| 12.5° | 2162.5 | 2171.7 | 2180.9 | 2200.4 | 2251.5 | 2333.4 | 2453.2  | 2589.3  | 2760.2  | 2790.9  |
| 15°   | 2236.2 | 2247.4 | 2240.3 | 2235.2 | 2261.8 | 2336.5 | 2461.3  | 2618.9  | 2812.4  | 2856.4  |
| 17.5° | 2406.1 | 2410.2 | 2393.8 | 2345.7 | 2341.6 | 2381.5 | 2500.2  | 2659.9  | 2877.9  | 2926.0  |
| 20°   | 2680.4 | 2673.2 | 2639.4 | 2544.2 | 2490.0 | 2481.8 | 2566.8  | 2721.3  | 2945.4  | 2996.6  |
| 22.5° | 3052.9 | 3044.7 | 2977.1 | 2826.7 | 2705.9 | 2626.1 | 2663.0  | 2801.1  | 3021.2  | 3078.5  |
| 25°   | 3517.5 | 3506.3 | 3407.0 | 3202.3 | 3015.0 | 2817.5 | 2794.0  | 2906.5  | 3114.3  | 3167.5  |
| 27.5° | 4059.9 | 4050.7 | 3943.3 | 3673.1 | 3402.9 | 3079.5 | 2956.7  | 3030.4  | 3211.5  | 3271.9  |
| 30°   | 4643.3 | 4669.9 | 4479.5 | 4188.9 | 3847.1 | 3421.3 | 3175.7  | 3182.9  | 3337.4  | 3391.6  |
| 32.5° | 5329.0 | 5375.0 | 5145.8 | 4777.3 | 4310.7 | 3792.8 | 3452.0  | 3395.7  | 3520.6  | 3565.6  |
| 35°   | 6008.5 | 6060.7 | 5870.4 | 5463.0 | 4925.7 | 4230.8 | 3740.6  | 3640.3  | 3764.2  | 3813.3  |
| 37.5° | 6596.0 | 6665.6 | 6567.3 | 6213.2 | 5583.8 | 4758.9 | 4117.2  | 3927.9  | 4064.0  | 4125.4  |
| 40°   | 7059.6 | 7166.0 | 7158.9 | 6937.8 | 6359.6 | 5399.6 | 4595.2  | 4283.0  | 4436.5  | 4503.1  |
| 42.5° | 7436.2 | 7528.3 | 7608.1 | 7596.9 | 7169.1 | 6127.2 | 5157.0  | 4744.6  | 4861.3  | 4938.0  |
| 45°   | 7696.2 | 7794.4 | 7966.3 | 8151.6 | 7947.9 | 6906.1 | 5800.8  | 5292.1  | 5398.6  | 5514.2  |
| 47.5° | 7928.5 | 8040.0 | 8263.1 | 8556.9 | 8609.1 | 7688.0 | 6505.9  | 5929.7  | 6027.0  | 6146.7  |
| 50°   | 7948.9 | 8045.1 | 8391.1 | 8807.6 | 9078.8 | 8439.2 | 7263.3  | 6645.1  | 6736.2  | 6864.1  |
| 52.5° | 7454.6 | 7606.1 | 8209.9 | 8800.4 | 9294.7 | 9067.5 | 8015.5  | 7389.1  | 7491.5  | 7645.0  |
| 55°   | 5786.4 | 6008.5 | 7678.8 | 8526.2 | 9218.0 | 9473.8 | 8730.8  | 8180.2  | 8311.2  | 8471.9  |
| 57.5° | 4984.1 | 5081.3 | 6095.5 | 8026.7 | 8868.0 | 9579.3 | 9334.7  | 8979.5  | 9190.4  | 9366.4  |
| 60°   | 4479.5 | 4560.4 | 5160.1 | 7249.9 | 8407.4 | 9412.4 | 9801.3  | 9724.6  | 10088.9 | 10298.7 |
| 62.5° | 3939.2 | 4015.9 | 4561.4 | 6053.6 | 7817.9 | 9135.1 | 10096.1 | 10412.3 | 11010.0 | 11239.3 |
| 65°   | 3402.9 | 3468.4 | 3991.4 | 5086.4 | 7068.8 | 8857.7 | 10248.6 | 11006.9 | 11862.5 | 12100.0 |
| 67.5° | 2805.2 | 2859.5 | 3353.8 | 4291.2 | 6158.0 | 8478.1 | 10324.3 | 11474.6 | 12604.5 | 12808.2 |
| 70°   | 2024.3 | 2066.3 | 2577.0 | 3393.7 | 5014.8 | 7825.1 | 10293.6 | 11806.2 | 12989.3 | 13152.0 |
| 72.5° | 956.9  | 994.8  | 1594.5 | 2203.4 | 3542.1 | 6554.0 | 9672.4  | 11543.2 | 12598.4 | 12517.5 |
| 75°   | 510.7  | 543.4  | 916.0  | 1208.7 | 1870.8 | 4492.8 | 7915.2  | 9943.6  | 10579.1 | 10186.2 |
| 77.5° | 345.9  | 371.5  | 567.0  | 725.6  | 854.6  | 2132.8 | 5087.4  | 6884.6  | 6623.6  | 5974.8  |
| 80°   | 274.3  | 300.9  | 464.6  | 491.2  | 413.5  | 770.6  | 2102.1  | 3186.9  | 2289.4  | 1830.9  |
| 82.5° | 210.8  | 240.5  | 390.9  | 356.2  | 225.2  | 316.2  | 612.0   | 1008.1  | 586.4   | 446.2   |
| 85°   | 129.0  | 160.7  | 307.0  | 227.2  | 126.9  | 144.3  | 207.8   | 280.4   | 179.1   | 149.4   |
| 87.5° | 65.5   | 92.1   | 155.6  | 82.9   | 57.3   | 33.8   | 55.3    | 55.3    | 47.1    | 40.9    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2787.8  | 0°    | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 | 2787.8 |
| 2773.5  | 2.5°  | 2798.0 | 2818.5 | 2853.3 | 2886.1 | 2911.6 | 2936.2 | 2960.8 | 2974.1 | 2978.2 | 2994.5 |
| 2788.8  | 5°    | 2830.8 | 2868.7 | 2936.2 | 2999.7 | 3039.6 | 3064.1 | 3081.5 | 3091.8 | 3093.8 | 3098.9 |
| 2830.8  | 7.5°  | 2891.2 | 2951.6 | 3045.7 | 3109.2 | 3138.8 | 3136.8 | 3129.6 | 3104.0 | 3093.8 | 3084.6 |
| 2892.2  | 10°   | 2976.1 | 3055.9 | 3171.6 | 3215.6 | 3197.2 | 3148.1 | 3084.6 | 3009.9 | 2975.1 | 2941.3 |
| 2976.1  | 12.5° | 3081.5 | 3182.9 | 3296.5 | 3294.4 | 3203.3 | 3077.4 | 2930.1 | 2815.4 | 2742.8 | 2690.6 |
| 3079.5  | 15°   | 3209.5 | 3326.1 | 3413.1 | 3343.5 | 3144.0 | 2917.8 | 2701.8 | 2552.4 | 2486.9 | 2429.6 |
| 3183.9  | 17.5° | 3341.5 | 3466.3 | 3506.3 | 3328.2 | 2994.5 | 2681.4 | 2436.8 | 2319.1 | 2254.6 | 2223.9 |
| 3296.5  | 20°   | 3470.4 | 3594.3 | 3561.5 | 3240.2 | 2767.3 | 2413.2 | 2195.2 | 2130.8 | 2117.5 | 2124.6 |
| 3406.0  | 22.5° | 3606.6 | 3717.1 | 3572.8 | 3070.3 | 2477.7 | 2139.0 | 2019.2 | 2021.3 | 2050.9 | 2072.4 |
| 3520.6  | 25°   | 3745.7 | 3820.4 | 3543.1 | 2824.7 | 2166.6 | 1937.3 | 1907.7 | 1940.4 | 1998.7 | 2040.7 |
| 3649.5  | 27.5° | 3879.8 | 3912.6 | 3478.6 | 2520.7 | 1899.5 | 1793.0 | 1798.2 | 1865.7 | 1953.7 | 2012.1 |
| 3806.1  | 30°   | 4031.3 | 3994.4 | 3354.8 | 2178.9 | 1714.2 | 1669.2 | 1712.2 | 1791.0 | 1879.0 | 1931.2 |
| 4003.6  | 32.5° | 4202.2 | 4065.0 | 3158.3 | 1862.6 | 1583.2 | 1569.9 | 1640.6 | 1691.7 | 1730.6 | 1746.0 |
| 4265.6  | 35°   | 4415.1 | 4164.3 | 2906.5 | 1640.6 | 1465.5 | 1497.3 | 1564.8 | 1539.2 | 1523.9 | 1515.7 |
| 4617.7  | 37.5° | 4691.4 | 4298.4 | 2611.8 | 1496.2 | 1370.4 | 1445.1 | 1472.7 | 1392.9 | 1332.5 | 1302.8 |
| 5044.5  | 40°   | 5024.0 | 4494.9 | 2328.3 | 1384.7 | 1310.0 | 1400.0 | 1351.9 | 1255.7 | 1179.0 | 1137.0 |
| 5524.5  | 42.5° | 5393.5 | 4700.6 | 2089.8 | 1300.8 | 1276.2 | 1363.2 | 1262.9 | 1148.3 | 1024.4 | 1011.1 |
| 6096.5  | 45°   | 5781.3 | 4912.4 | 1927.1 | 1236.3 | 1259.8 | 1331.5 | 1211.7 | 1026.5 | 938.5  | 992.7  |
| 6670.7  | 47.5° | 6169.2 | 5106.9 | 1828.9 | 1188.2 | 1251.6 | 1295.7 | 1166.7 | 958.9  | 896.5  | 975.3  |
| 7285.8  | 50°   | 6601.1 | 5280.9 | 1784.9 | 1153.4 | 1242.4 | 1281.3 | 1099.2 | 941.6  | 852.5  | 904.7  |
| 7922.3  | 52.5° | 7029.9 | 5416.0 | 1752.1 | 1118.6 | 1229.1 | 1270.1 | 1066.4 | 921.1  | 799.3  | 802.4  |
| 8563.0  | 55°   | 7457.7 | 5504.0 | 1716.3 | 1072.5 | 1199.5 | 1245.5 | 1063.3 | 898.6  | 759.4  | 745.1  |
| 9240.5  | 57.5° | 7914.1 | 5554.1 | 1672.3 | 1021.4 | 1148.3 | 1183.1 | 1060.3 | 881.2  | 747.1  | 723.6  |
| 9933.4  | 60°   | 8378.8 | 5627.8 | 1615.0 | 958.9  | 1079.7 | 1108.4 | 1053.1 | 875.0  | 739.9  | 700.0  |
| 10586.3 | 62.5° | 8795.3 | 5653.4 | 1546.4 | 899.6  | 991.7  | 1034.7 | 1037.8 | 869.9  | 720.5  | 651.9  |
| 11128.7 | 65°   | 9068.6 | 5542.9 | 1426.7 | 832.0  | 896.5  | 958.9  | 1008.1 | 852.5  | 685.7  | 617.1  |
| 11396.9 | 67.5° | 9057.3 | 5227.7 | 1239.4 | 745.1  | 804.4  | 875.0  | 965.1  | 822.8  | 643.7  | 574.1  |
| 11194.2 | 70°   | 8635.7 | 4605.4 | 1001.9 | 643.7  | 703.1  | 785.0  | 909.8  | 778.8  | 593.6  | 527.1  |
| 9953.8  | 72.5° | 7406.5 | 3604.5 | 727.7  | 525.0  | 585.4  | 691.8  | 838.2  | 725.6  | 542.4  | 485.1  |
| 7356.4  | 75°   | 5291.1 | 2281.2 | 493.3  | 403.2  | 455.4  | 586.4  | 749.1  | 663.2  | 495.3  | 487.2  |
| 3684.3  | 77.5° | 2702.9 | 1089.9 | 326.5  | 294.7  | 317.3  | 462.6  | 629.4  | 592.6  | 502.5  | 402.2  |
| 1048.0  | 80°   | 879.1  | 402.2  | 205.7  | 200.6  | 210.8  | 308.1  | 487.2  | 486.1  | 380.7  | 273.3  |
| 253.8   | 82.5° | 280.4  | 173.0  | 134.1  | 129.0  | 123.8  | 193.4  | 339.8  | 384.8  | 256.9  | 173.0  |
| 91.1    | 85°   | 111.6  | 103.4  | 78.8   | 72.7   | 52.2   | 91.1   | 178.1  | 255.9  | 191.4  | 124.9  |
| 23.5    | 87.5° | 40.9   | 40.9   | 21.5   | 15.4   | 11.3   | 30.7   | 48.1   | 76.8   | 109.5  | 64.5   |
| 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°   |
|--------|
| 2787.8 |
| 3003.8 |
| 3107.1 |
| 3086.7 |
| 2931.1 |
| 2678.3 |
| 2423.5 |
| 2233.1 |
| 2121.6 |
| 2077.6 |
| 2052.0 |
| 2026.4 |
| 1943.5 |
| 1754.2 |
| 1523.9 |
| 1310.0 |
| 1140.1 |
| 1024.4 |
| 1021.4 |
| 1012.2 |
| 943.6  |
| 823.9  |
| 755.3  |
| 726.6  |
| 703.1  |
| 651.9  |
| 617.1  |
| 577.2  |
| 533.2  |
| 482.0  |
| 459.5  |
| 358.2  |
| 241.5  |
| 171.9  |
| 127.9  |
| 63.5   |
| 0.0    |