

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: P941545

Luminaire Tested: **GLAN-SB5A-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941545  
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-SB5A-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21476 lumens  
Efficiency: N/A  
Efficacy: 151.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

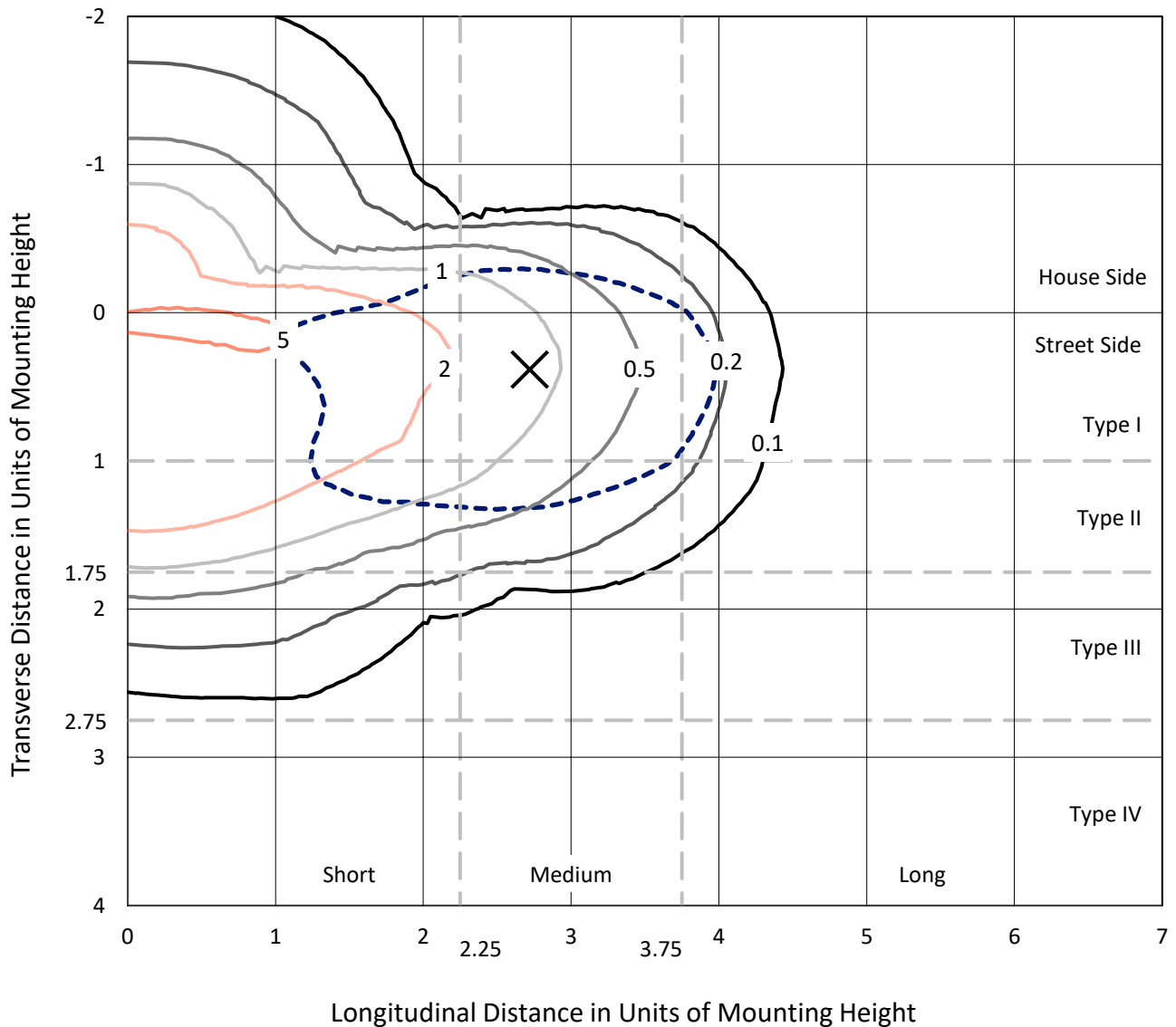
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

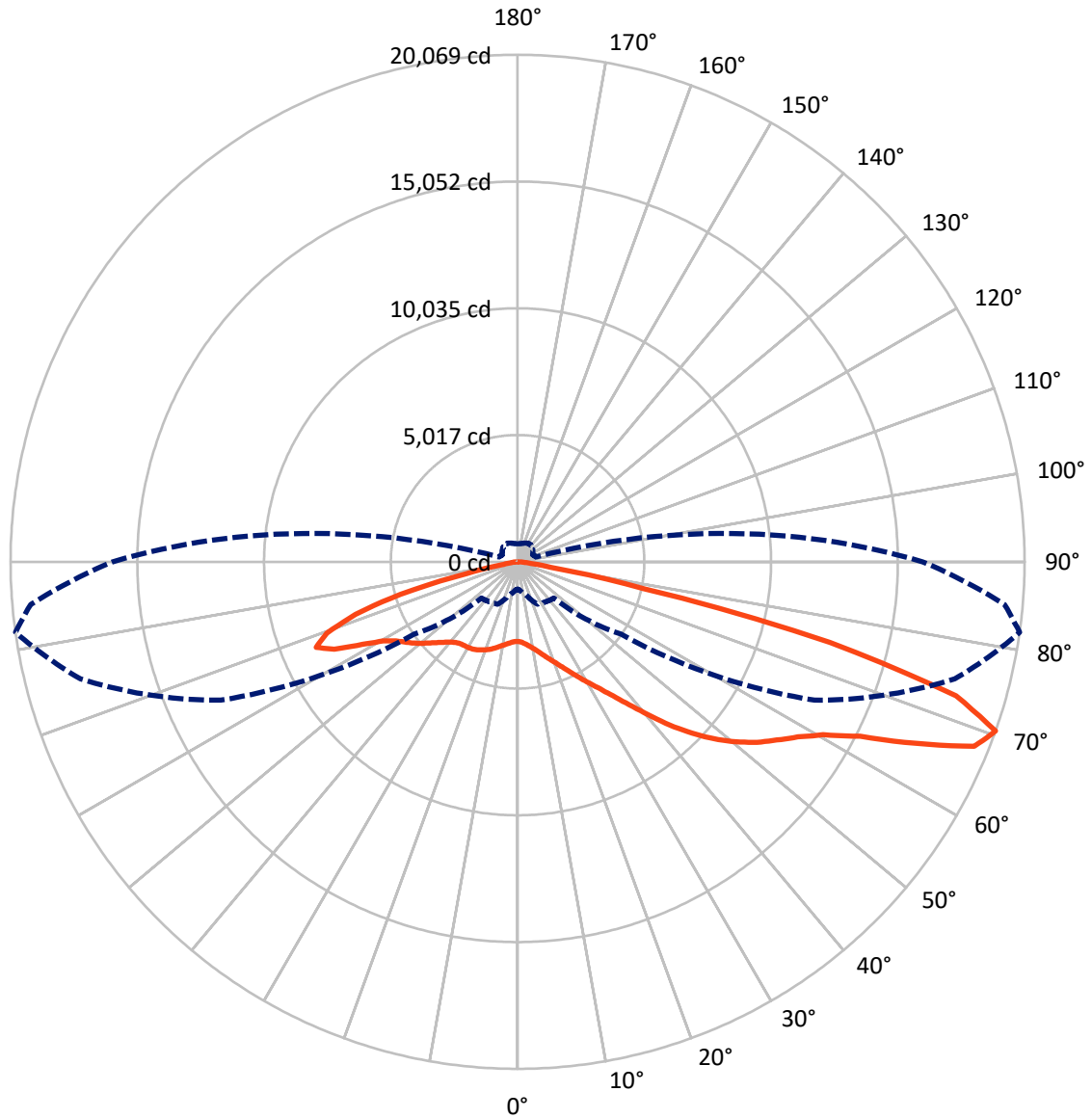
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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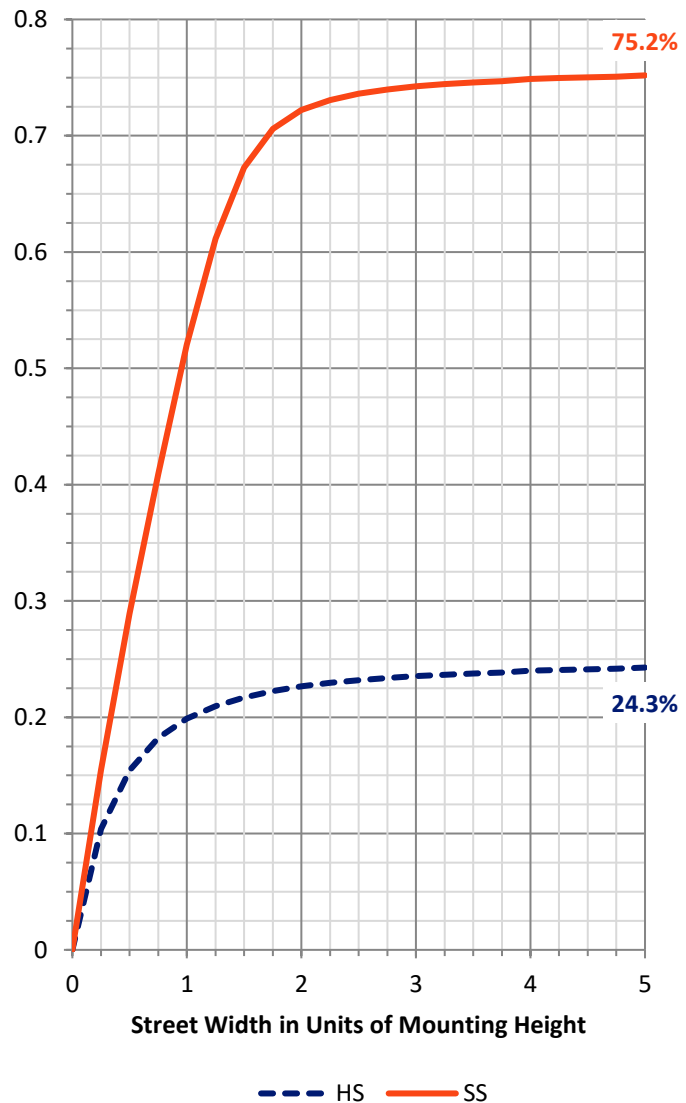
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5294.4   | 0.0    | 5294.4  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 16181.6  | 0.0    | 16181.6 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 21476.0  | 0.0    | 21476.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 297.3   | 1.4       |
| 10°-20°   | 854.1   | 4.0       |
| 20°-30°   | 1428.9  | 6.7       |
| 30°-40°   | 2232.3  | 10.4      |
| 40°-50°   | 3555.1  | 16.6      |
| 50°-60°   | 4947.4  | 23.0      |
| 60°-70°   | 5175.2  | 24.1      |
| 70°-80°   | 2704.8  | 12.6      |
| 80°-90°   | 280.9   | 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°    | 21476.0 | 100.0     |
| 0°-180°   | 21476.0 | 100.0     |

**Coefficient of Utilization**

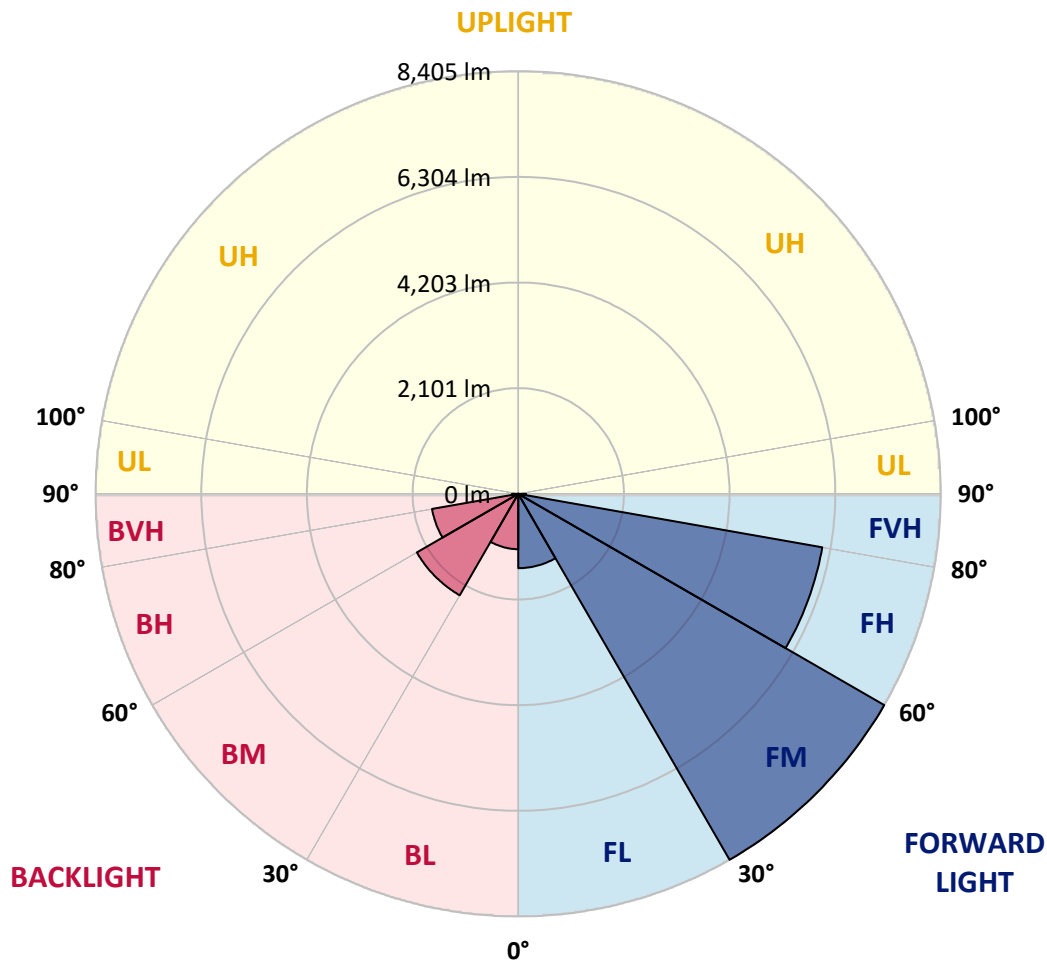


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1478.9 | 6.9       |                         |      |         |
| FM (30°-60°)   | 8405.5 | 39.1      |                         |      |         |
| FH (60°-80°)   | 6140.1 | 28.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 157.2  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 1101.4 | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 2329.3 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1740.0 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 123.6  | 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°    | 3148.7 | 3148.7 | 3148.7 | 3148.7 | 3148.7 | 3148.7 | 3148.7  | 3148.7  | 3148.7  | 3148.7  |
| 2.5°  | 3223.9 | 3242.1 | 3236.4 | 3230.7 | 3230.7 | 3222.7 | 3221.6  | 3210.2  | 3201.1  | 3186.3  |
| 5°    | 3264.9 | 3284.3 | 3282.0 | 3286.5 | 3301.4 | 3304.8 | 3308.2  | 3301.4  | 3283.1  | 3264.9  |
| 7.5°  | 3228.4 | 3250.1 | 3256.9 | 3284.3 | 3329.8 | 3370.9 | 3401.6  | 3414.2  | 3397.1  | 3370.9  |
| 10°   | 3105.3 | 3129.3 | 3153.2 | 3218.2 | 3299.1 | 3395.9 | 3478.0  | 3527.0  | 3523.6  | 3498.5  |
| 12.5° | 2855.8 | 2880.8 | 2932.1 | 3058.6 | 3206.8 | 3377.7 | 3530.4  | 3633.0  | 3668.3  | 3650.1  |
| 15°   | 2656.4 | 2678.0 | 2716.8 | 2846.7 | 3039.3 | 3299.1 | 3549.8  | 3749.2  | 3839.2  | 3829.0  |
| 17.5° | 2650.7 | 2659.8 | 2683.7 | 2745.2 | 2893.4 | 3176.0 | 3529.3  | 3863.2  | 4035.2  | 4034.1  |
| 20°   | 2750.9 | 2754.4 | 2768.0 | 2780.6 | 2864.9 | 3082.6 | 3476.8  | 3957.7  | 4255.2  | 4255.2  |
| 22.5° | 2890.0 | 2887.7 | 2901.4 | 2890.0 | 2931.0 | 3074.6 | 3443.8  | 4040.9  | 4500.2  | 4518.4  |
| 25°   | 3098.5 | 3087.1 | 3083.7 | 3057.5 | 3065.5 | 3148.7 | 3480.3  | 4135.5  | 4790.8  | 4828.4  |
| 27.5° | 3376.6 | 3358.3 | 3345.8 | 3285.4 | 3264.9 | 3301.4 | 3591.9  | 4249.5  | 5114.4  | 5179.4  |
| 30°   | 3739.0 | 3705.9 | 3687.7 | 3582.8 | 3508.8 | 3514.5 | 3760.6  | 4401.0  | 5452.9  | 5557.7  |
| 32.5° | 4233.5 | 4182.2 | 4133.2 | 3961.2 | 3825.6 | 3781.1 | 3978.3  | 4610.7  | 5819.8  | 5987.3  |
| 35°   | 4787.4 | 4746.3 | 4693.9 | 4428.4 | 4219.9 | 4117.3 | 4272.3  | 4903.6  | 6249.4  | 6515.0  |
| 37.5° | 5320.7 | 5285.4 | 5310.4 | 4952.6 | 4683.7 | 4534.4 | 4657.4  | 5296.8  | 6779.3  | 7171.4  |
| 40°   | 5872.2 | 5844.9 | 5848.3 | 5506.4 | 5193.1 | 5025.5 | 5124.7  | 5790.2  | 7386.7  | 7952.0  |
| 42.5° | 6471.7 | 6451.1 | 6382.8 | 6079.6 | 5727.5 | 5571.4 | 5662.6  | 6360.0  | 8038.6  | 8840.8  |
| 45°   | 7142.9 | 7130.3 | 7066.5 | 6718.9 | 6315.5 | 6140.0 | 6263.1  | 6989.0  | 8693.8  | 9677.3  |
| 47.5° | 7722.9 | 7733.2 | 7725.2 | 7432.3 | 7014.1 | 6756.5 | 6903.6  | 7645.4  | 9303.5  | 10463.6 |
| 50°   | 8002.1 | 8055.7 | 8134.3 | 8043.1 | 7783.3 | 7521.2 | 7549.7  | 8279.0  | 9884.7  | 11200.9 |
| 52.5° | 7856.2 | 7957.7 | 8171.9 | 8317.8 | 8418.1 | 8363.4 | 8287.0  | 8908.1  | 10431.7 | 11866.4 |
| 55°   | 7312.7 | 7455.1 | 7810.7 | 8162.8 | 8674.5 | 9072.2 | 9172.5  | 9605.5  | 10965.0 | 12452.2 |
| 57.5° | 6322.4 | 6553.7 | 6872.8 | 7585.0 | 8446.5 | 9415.2 | 10204.9 | 10573.0 | 11530.2 | 13077.8 |
| 60°   | 4624.4 | 4934.4 | 5330.9 | 6390.7 | 7648.8 | 9231.7 | 11083.5 | 12059.0 | 12333.6 | 13888.0 |
| 62.5° | 2959.5 | 3150.9 | 3515.6 | 4513.9 | 5960.0 | 8291.6 | 11352.5 | 13916.5 | 13695.4 | 15216.8 |
| 65°   | 2026.2 | 2149.2 | 2483.1 | 3043.8 | 3852.9 | 6171.9 | 10632.2 | 15309.1 | 15858.3 | 17322.7 |
| 67.5° | 1472.3 | 1565.8 | 1850.7 | 2341.8 | 2510.5 | 3652.3 | 8250.5  | 15245.3 | 17960.9 | 19492.5 |
| 70°   | 1073.5 | 1139.6 | 1378.9 | 1850.7 | 1931.6 | 2031.9 | 4998.2  | 12959.3 | 17915.3 | 20069.1 |
| 72.5° | 795.4  | 841.0  | 1001.7 | 1435.9 | 1563.5 | 1372.1 | 2474.0  | 9418.6  | 15394.5 | 18152.3 |
| 75°   | 575.5  | 609.7  | 728.2  | 1098.6 | 1251.3 | 1045.0 | 1234.2  | 5504.2  | 10738.2 | 12769.0 |
| 77.5° | 439.9  | 466.1  | 543.6  | 804.5  | 1001.7 | 784.0  | 765.8   | 2532.1  | 5091.6  | 5116.7  |
| 80°   | 353.3  | 370.4  | 412.5  | 566.4  | 768.1  | 586.9  | 499.1   | 1022.2  | 1609.1  | 1361.8  |
| 82.5° | 259.8  | 288.3  | 348.7  | 397.7  | 549.3  | 404.5  | 304.3   | 516.2   | 612.0   | 526.5   |
| 85°   | 148.1  | 167.5  | 210.8  | 284.9  | 351.0  | 247.3  | 174.4   | 229.1   | 284.9   | 233.6   |
| 87.5° | 52.4   | 68.4   | 74.1   | 111.7  | 152.7  | 102.6  | 67.2    | 66.1    | 93.4    | 69.5    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3148.7  | 0°    | 3148.7  | 3148.7  | 3148.7 | 3148.7 | 3148.7 | 3148.7 | 3148.7 | 3148.7 | 3148.7 | 3148.7 |
| 3182.8  | 2.5°  | 3171.4  | 3165.7  | 3143.0 | 3112.2 | 3080.3 | 3049.5 | 3039.3 | 3017.6 | 3002.8 | 2994.8 |
| 3256.9  | 5°    | 3235.3  | 3217.0  | 3163.5 | 3095.1 | 3023.3 | 2945.8 | 2891.1 | 2841.0 | 2804.5 | 2770.3 |
| 3358.3  | 7.5°  | 3326.4  | 3294.5  | 3202.2 | 3082.6 | 2954.9 | 2826.1 | 2730.4 | 2657.5 | 2608.5 | 2576.6 |
| 3476.8  | 10°   | 3432.4  | 3383.4  | 3242.1 | 3063.2 | 2866.0 | 2681.4 | 2568.6 | 2505.9 | 2475.2 | 2458.1 |
| 3612.5  | 12.5° | 3554.3  | 3484.8  | 3283.1 | 3018.7 | 2730.4 | 2519.6 | 2442.1 | 2423.9 | 2425.0 | 2426.2 |
| 3783.4  | 15°   | 3704.8  | 3607.9  | 3316.2 | 2921.9 | 2553.8 | 2395.4 | 2381.7 | 2411.3 | 2442.1 | 2456.9 |
| 3977.1  | 17.5° | 3874.6  | 3737.8  | 3321.9 | 2762.3 | 2380.6 | 2315.6 | 2358.9 | 2422.7 | 2469.5 | 2490.0 |
| 4193.6  | 20°   | 4056.9  | 3870.0  | 3280.8 | 2536.7 | 2238.1 | 2250.7 | 2328.2 | 2410.2 | 2461.5 | 2487.7 |
| 4440.9  | 22.5° | 4265.4  | 4011.3  | 3182.8 | 2299.7 | 2121.9 | 2180.0 | 2271.2 | 2350.9 | 2404.5 | 2430.7 |
| 4731.5  | 25°   | 4503.6  | 4169.7  | 3029.0 | 2100.2 | 2021.6 | 2100.2 | 2191.4 | 2257.5 | 2300.8 | 2324.7 |
| 5056.3  | 27.5° | 4768.0  | 4334.9  | 2823.9 | 1941.8 | 1933.9 | 2018.2 | 2093.4 | 2144.7 | 2167.5 | 2185.7 |
| 5401.6  | 30°   | 5033.5  | 4485.4  | 2575.4 | 1822.2 | 1857.5 | 1937.3 | 1990.8 | 2013.6 | 2020.5 | 2023.9 |
| 5786.8  | 32.5° | 5320.7  | 4615.3  | 2314.5 | 1723.0 | 1784.6 | 1858.6 | 1890.6 | 1900.8 | 1868.9 | 1847.3 |
| 6254.0  | 35°   | 5668.3  | 4754.3  | 2059.2 | 1644.4 | 1712.8 | 1776.6 | 1786.9 | 1777.7 | 1740.1 | 1695.7 |
| 6839.7  | 37.5° | 6097.9  | 4927.5  | 1855.2 | 1588.6 | 1645.5 | 1687.7 | 1675.2 | 1672.9 | 1676.3 | 1623.9 |
| 7544.0  | 40°   | 6624.4  | 5153.2  | 1705.9 | 1545.3 | 1590.8 | 1600.0 | 1564.6 | 1584.0 | 1601.1 | 1521.3 |
| 8316.6  | 42.5° | 7209.0  | 5425.5  | 1611.4 | 1515.6 | 1545.3 | 1523.6 | 1468.9 | 1490.6 | 1488.3 | 1383.4 |
| 9092.7  | 45°   | 7805.0  | 5721.8  | 1578.3 | 1494.0 | 1503.1 | 1459.8 | 1399.4 | 1405.1 | 1357.2 | 1262.7 |
| 9836.8  | 47.5° | 8397.5  | 6039.8  | 1598.8 | 1475.8 | 1450.7 | 1401.7 | 1355.0 | 1329.9 | 1259.2 | 1188.6 |
| 10550.2 | 50°   | 8978.7  | 6373.7  | 1674.0 | 1439.3 | 1378.9 | 1350.4 | 1316.2 | 1271.8 | 1196.6 | 1136.2 |
| 11224.8 | 52.5° | 9517.7  | 6709.8  | 1758.4 | 1378.9 | 1288.9 | 1306.0 | 1284.3 | 1233.0 | 1158.9 | 1097.4 |
| 11863.0 | 55°   | 10028.3 | 7046.0  | 1791.4 | 1295.7 | 1204.5 | 1267.2 | 1254.7 | 1160.1 | 1071.2 | 1021.1 |
| 12530.8 | 57.5° | 10584.4 | 7450.6  | 1754.9 | 1189.7 | 1136.2 | 1222.8 | 1174.9 | 1070.1 | 1018.8 | 981.2  |
| 13400.3 | 60°   | 11354.7 | 8085.3  | 1676.3 | 1058.7 | 1071.2 | 1156.7 | 1074.6 | 1031.3 | 975.5  | 933.3  |
| 14704.0 | 62.5° | 12634.5 | 9269.3  | 1549.8 | 928.8  | 994.9  | 1058.7 | 1026.8 | 983.5  | 926.5  | 885.5  |
| 16933.0 | 65°   | 14526.2 | 10914.9 | 1311.7 | 827.3  | 909.4  | 962.9  | 975.5  | 932.2  | 872.9  | 829.6  |
| 18886.2 | 67.5° | 16121.6 | 11947.3 | 992.6  | 743.0  | 821.6  | 885.5  | 920.8  | 878.6  | 815.9  | 773.8  |
| 19343.2 | 70°   | 16033.8 | 11197.5 | 757.8  | 659.8  | 744.1  | 809.1  | 854.7  | 821.6  | 754.4  | 714.5  |
| 17570.0 | 72.5° | 14241.3 | 9367.3  | 613.1  | 575.5  | 665.5  | 729.3  | 784.0  | 759.0  | 690.6  | 651.8  |
| 12871.5 | 75°   | 10462.5 | 6649.4  | 490.0  | 490.0  | 567.5  | 646.1  | 706.5  | 690.6  | 627.9  | 600.6  |
| 5403.9  | 77.5° | 4410.2  | 2789.7  | 384.0  | 406.8  | 471.8  | 555.0  | 630.2  | 635.9  | 581.2  | 615.4  |
| 1429.0  | 80°   | 1172.6  | 769.2   | 292.9  | 320.2  | 370.4  | 458.1  | 548.1  | 545.9  | 486.6  | 454.7  |
| 531.0   | 82.5° | 446.7   | 303.1   | 208.5  | 225.6  | 267.8  | 351.0  | 434.2  | 447.9  | 388.6  | 336.2  |
| 208.5   | 85°   | 172.1   | 129.9   | 128.8  | 135.6  | 156.1  | 232.5  | 328.2  | 339.6  | 292.9  | 248.4  |
| 58.1    | 87.5° | 44.4    | 38.7    | 47.9   | 45.6   | 71.8   | 124.2  | 188.0  | 194.9  | 178.9  | 103.7  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END O



| <u>180°</u> |
|-------------|
| 3148.7      |
| 3003.9      |
| 2784.0      |
| 2583.4      |
| 2462.6      |
| 2428.4      |
| 2455.8      |
| 2494.5      |
| 2494.5      |
| 2437.6      |
| 2331.6      |
| 2192.5      |
| 2031.9      |
| 1854.1      |
| 1698.0      |
| 1627.3      |
| 1523.6      |
| 1382.3      |
| 1266.1      |
| 1188.6      |
| 1131.6      |
| 1098.6      |
| 1016.5      |
| 977.8       |
| 931.0       |
| 885.5       |
| 831.9       |
| 774.9       |
| 717.9       |
| 651.8       |
| 592.6       |
| 558.4       |
| 422.8       |
| 336.2       |
| 256.4       |
| 148.1       |
| 0.0         |

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