

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: P951150

Luminaire Tested: **GLAN-SB5B-850-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P951150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5B-850-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 27155 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

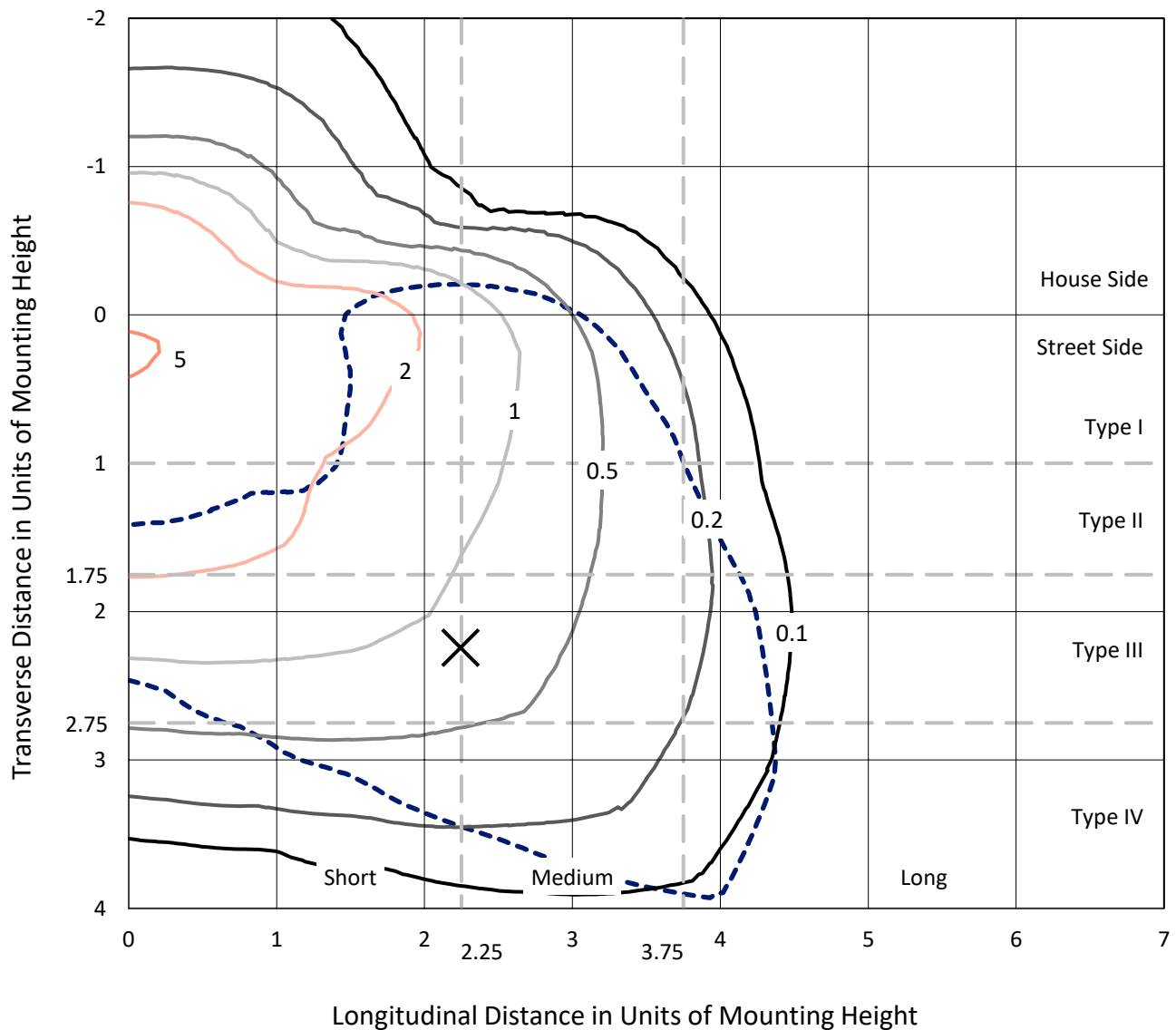
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

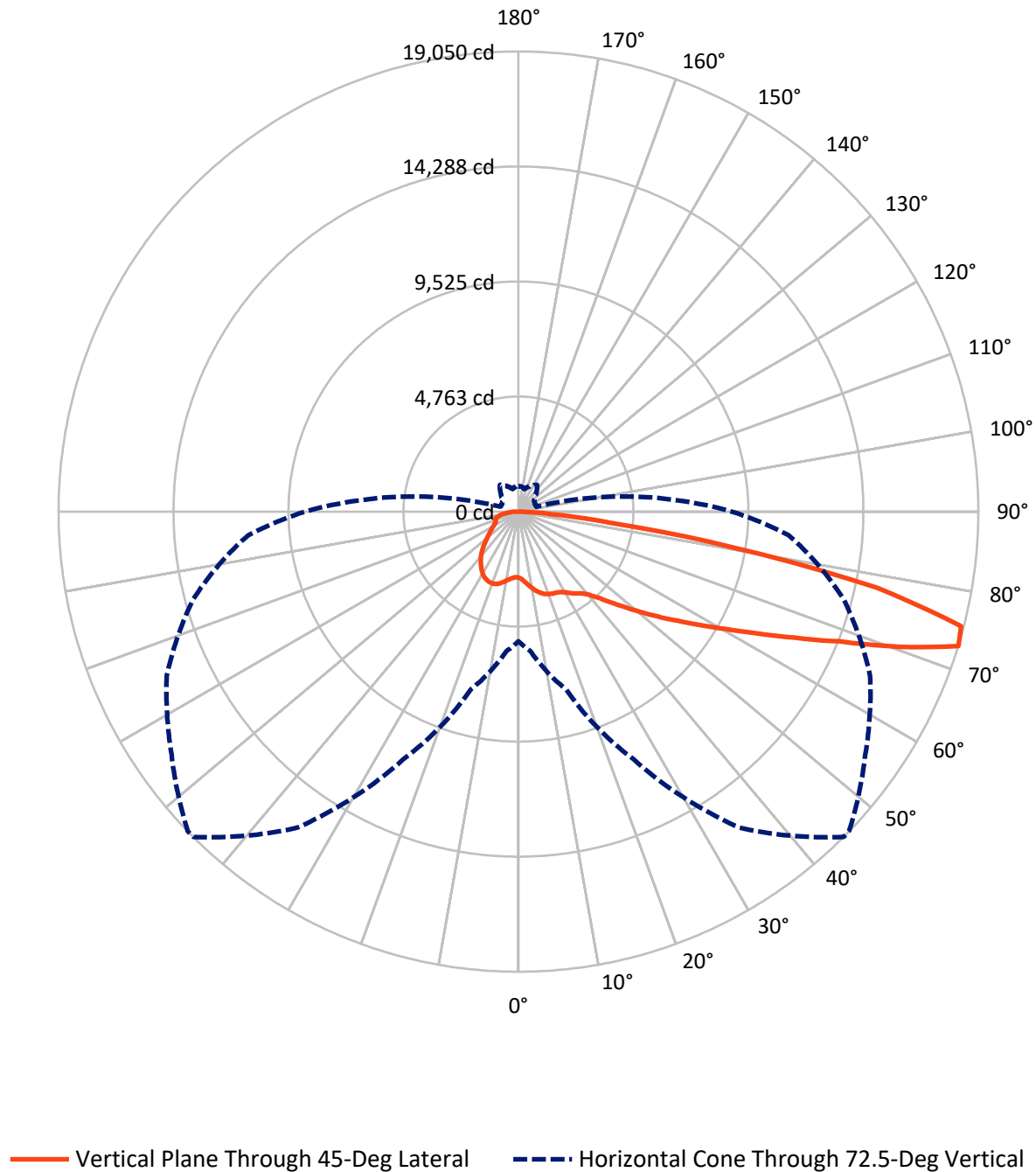
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: GLAN-SB5B-850-U-T4W

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6138.8   | 0.0    | 6138.8  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 21016.2  | 0.0    | 21016.2 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 27155.0  | 0.0    | 27155.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 278.8   | 1.0       |
| 10°-20°   | 929.6   | 3.4       |
| 20°-30°   | 1617.1  | 6.0       |
| 30°-40°   | 2318.2  | 8.5       |
| 40°-50°   | 3264.2  | 12.0      |
| 50°-60°   | 4999.8  | 18.4      |
| 60°-70°   | 7242.9  | 26.7      |
| 70°-80°   | 5783.9  | 21.3      |
| 80°-90°   | 720.4   | 2.7       |
| 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°    | 27155.0 | 100.0     |
| 0°-180°   | 27155.0 | 100.0     |

**Coefficient of Utilization**



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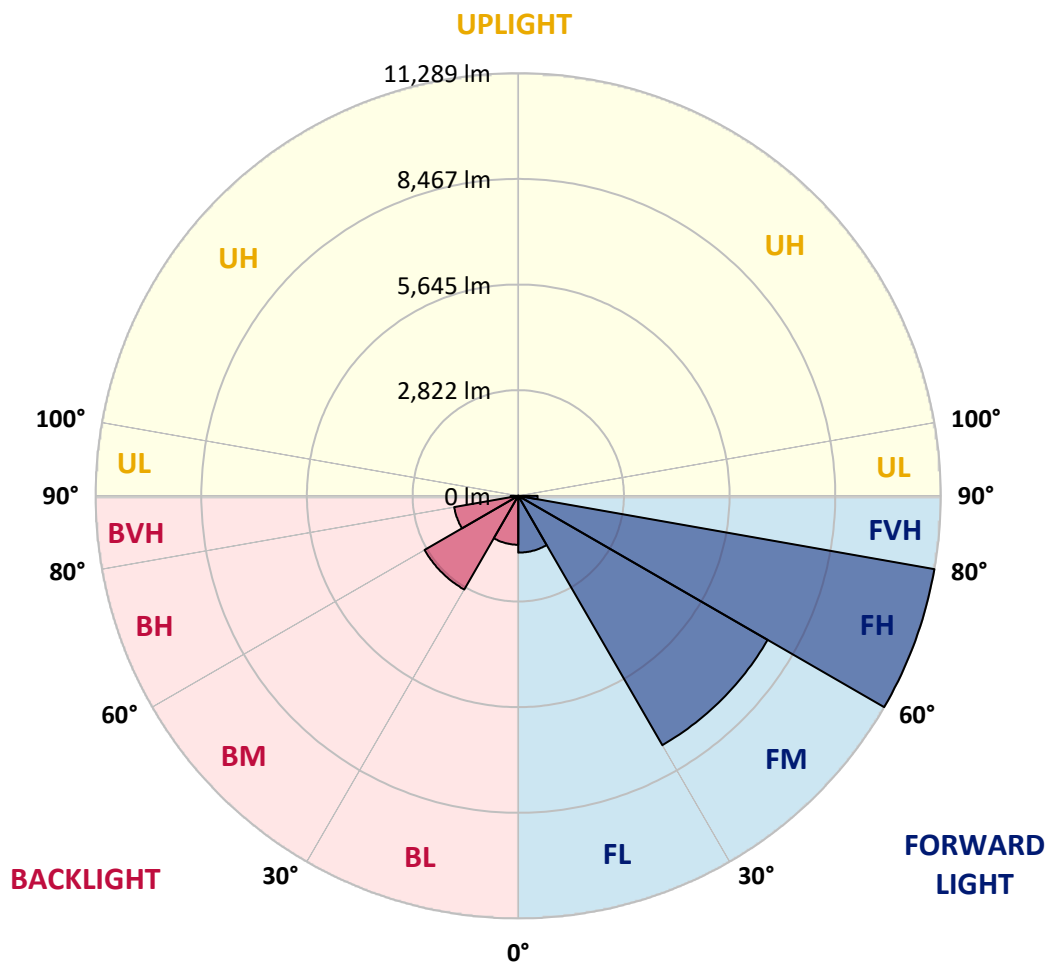
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1518.5  | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 7691.7  | 28.3      |                         |      |          |
| FH   | (60°-80°)   | 11289.1 | 41.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 516.8   | 1.9       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1307.0  | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2890.5  | 10.6      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1737.7  | 6.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 203.6   | 0.7       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2739.4  | 2739.4  | 2739.4  | 2739.4  | 2739.4  | 2739.4  | 2739.4  | 2739.4  | 2739.4  | 2739.4  |
| 2.5°  | 2846.7  | 2865.3  | 2848.1  | 2832.4  | 2825.2  | 2806.6  | 2805.2  | 2793.8  | 2786.6  | 2766.6  |
| 5°    | 3045.5  | 3069.9  | 3041.2  | 3009.8  | 2981.2  | 2935.4  | 2929.7  | 2896.8  | 2859.6  | 2816.7  |
| 7.5°  | 3270.1  | 3291.6  | 3258.7  | 3211.5  | 3161.4  | 3085.6  | 3084.2  | 3024.1  | 2965.4  | 2892.5  |
| 10°   | 3466.1  | 3494.7  | 3450.4  | 3386.0  | 3323.1  | 3237.2  | 3227.2  | 3158.5  | 3084.2  | 2989.7  |
| 12.5° | 3639.2  | 3659.2  | 3616.3  | 3537.6  | 3464.7  | 3378.8  | 3366.0  | 3290.2  | 3207.2  | 3099.9  |
| 15°   | 3776.5  | 3802.3  | 3745.1  | 3660.7  | 3583.4  | 3499.0  | 3487.6  | 3418.9  | 3335.9  | 3222.9  |
| 17.5° | 3866.6  | 3888.1  | 3829.5  | 3735.0  | 3660.7  | 3590.6  | 3582.0  | 3524.8  | 3451.8  | 3337.4  |
| 20°   | 3901.0  | 3923.9  | 3862.4  | 3766.5  | 3697.8  | 3643.5  | 3639.2  | 3597.7  | 3547.6  | 3443.2  |
| 22.5° | 3935.3  | 3956.8  | 3876.7  | 3776.5  | 3716.4  | 3682.1  | 3680.7  | 3653.5  | 3633.5  | 3547.6  |
| 25°   | 4074.1  | 4079.8  | 3972.5  | 3828.0  | 3742.2  | 3712.2  | 3710.7  | 3709.3  | 3717.9  | 3650.6  |
| 27.5° | 4194.2  | 4192.8  | 4101.2  | 3965.4  | 3832.3  | 3769.4  | 3767.9  | 3782.2  | 3809.4  | 3753.6  |
| 30°   | 4370.2  | 4354.4  | 4245.7  | 4104.1  | 3982.5  | 3885.2  | 3876.7  | 3863.8  | 3885.2  | 3840.9  |
| 32.5° | 4743.5  | 4693.5  | 4517.5  | 4265.8  | 4107.0  | 4032.6  | 4021.1  | 3941.0  | 3949.6  | 3922.4  |
| 35°   | 5278.6  | 5212.7  | 4978.1  | 4571.9  | 4261.5  | 4155.6  | 4149.9  | 4048.3  | 4031.2  | 4006.8  |
| 37.5° | 5915.1  | 5833.6  | 5560.4  | 5015.3  | 4527.5  | 4298.7  | 4290.1  | 4198.5  | 4128.4  | 4102.7  |
| 40°   | 6554.6  | 6451.6  | 6225.5  | 5556.1  | 4919.5  | 4537.6  | 4510.4  | 4371.6  | 4291.5  | 4248.6  |
| 42.5° | 7175.4  | 7089.6  | 6896.4  | 6162.6  | 5403.0  | 4886.6  | 4826.5  | 4589.0  | 4529.0  | 4488.9  |
| 45°   | 7724.7  | 7647.5  | 7505.8  | 6810.6  | 5969.5  | 5361.5  | 5302.9  | 4915.2  | 4896.6  | 4896.6  |
| 47.5° | 8171.0  | 8153.9  | 8003.7  | 7471.5  | 6637.5  | 5902.3  | 5800.7  | 5368.7  | 5418.7  | 5496.0  |
| 50°   | 8666.0  | 8618.8  | 8458.6  | 8122.4  | 7422.9  | 6521.7  | 6438.7  | 5925.1  | 6112.5  | 6324.2  |
| 52.5° | 9120.9  | 9146.6  | 8967.8  | 8800.4  | 8309.8  | 7212.6  | 7066.7  | 6581.7  | 6986.6  | 7337.0  |
| 55°   | 9588.7  | 9590.1  | 9540.0  | 9517.1  | 9239.6  | 7976.5  | 7816.3  | 7371.4  | 8015.1  | 8450.0  |
| 57.5° | 10027.8 | 10030.7 | 10105.1 | 10306.8 | 10318.2 | 8857.7  | 8676.0  | 8341.3  | 9158.1  | 9601.5  |
| 60°   | 10419.8 | 10439.8 | 10642.9 | 11115.0 | 11266.6 | 9867.6  | 9695.9  | 9487.1  | 10339.7 | 10786.0 |
| 62.5° | 10551.4 | 10624.3 | 11076.4 | 11747.3 | 12203.6 | 11106.4 | 10937.6 | 10813.2 | 11581.3 | 11996.2 |
| 65°   | 10328.2 | 10495.6 | 11369.6 | 12269.4 | 13167.8 | 12578.4 | 12411.0 | 12275.1 | 12871.7 | 13262.2 |
| 67.5° | 9780.3  | 9996.3  | 11352.5 | 12817.3 | 14337.9 | 14349.4 | 14193.4 | 13874.4 | 14255.0 | 14405.2 |
| 70°   | 8337.0  | 8660.3  | 10352.5 | 13021.9 | 15681.2 | 16771.2 | 16621.0 | 15799.9 | 15635.4 | 14908.7 |
| 72.5° | 5371.5  | 5806.4  | 7623.1  | 11338.2 | 15980.1 | 19050.0 | 19041.4 | 17538.0 | 16071.7 | 13930.2 |
| 75°   | 1959.8  | 2225.9  | 3541.9  | 7116.7  | 13413.8 | 18934.1 | 18989.9 | 17240.4 | 14671.2 | 10760.2 |
| 77.5° | 713.8   | 781.1   | 1155.8  | 2735.1  | 8249.7  | 15191.9 | 15307.8 | 13782.9 | 10442.7 | 5400.1  |
| 80°   | 374.8   | 412.0   | 592.2   | 1061.4  | 3534.8  | 9022.2  | 9203.8  | 8191.1  | 4908.1  | 1626.5  |
| 82.5° | 207.4   | 224.6   | 331.9   | 576.5   | 1592.1  | 3858.1  | 3966.8  | 3235.8  | 1726.6  | 689.5   |
| 85°   | 111.6   | 118.7   | 155.9   | 314.7   | 778.2   | 1337.5  | 1367.6  | 967.0   | 688.1   | 404.8   |
| 87.5° | 32.9    | 40.1    | 51.5    | 100.1   | 304.7   | 300.4   | 307.6   | 191.7   | 271.8   | 204.6   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2739.4  | 0°    | 2739.4  | 2739.4  | 2739.4 | 2739.4 | 2739.4 | 2739.4 | 2739.4 | 2739.4 | 2739.4 | 2739.4 |
| 2760.9  | 2.5°  | 2752.3  | 2748.0  | 2732.3 | 2725.1 | 2716.5 | 2715.1 | 2722.2 | 2723.7 | 2725.1 | 2726.5 |
| 2792.3  | 5°    | 2778.0  | 2763.7  | 2749.4 | 2740.8 | 2743.7 | 2745.1 | 2759.4 | 2769.5 | 2776.6 | 2782.3 |
| 2851.0  | 7.5°  | 2828.1  | 2816.7  | 2792.3 | 2790.9 | 2795.2 | 2808.1 | 2826.7 | 2849.6 | 2862.4 | 2872.4 |
| 2926.8  | 10°   | 2902.5  | 2881.0  | 2852.4 | 2856.7 | 2865.3 | 2883.9 | 2922.5 | 2941.1 | 2962.6 | 2981.2 |
| 3019.8  | 12.5° | 2978.3  | 2959.7  | 2926.8 | 2929.7 | 2944.0 | 2976.9 | 3014.1 | 3037.0 | 3051.3 | 3065.6 |
| 3119.9  | 15°   | 3077.0  | 3044.1  | 3008.3 | 3008.3 | 3034.1 | 3069.9 | 3087.0 | 3105.6 | 3114.2 | 3129.9 |
| 3227.2  | 17.5° | 3178.6  | 3135.7  | 3088.5 | 3085.6 | 3117.1 | 3134.2 | 3144.2 | 3147.1 | 3150.0 | 3167.1 |
| 3331.6  | 20°   | 3280.1  | 3232.9  | 3165.7 | 3160.0 | 3167.1 | 3164.3 | 3162.8 | 3160.0 | 3164.3 | 3185.7 |
| 3438.9  | 22.5° | 3380.3  | 3325.9  | 3232.9 | 3207.2 | 3187.2 | 3160.0 | 3158.5 | 3157.1 | 3160.0 | 3181.4 |
| 3554.8  | 25°   | 3497.6  | 3431.8  | 3307.3 | 3230.1 | 3162.8 | 3125.6 | 3129.9 | 3131.4 | 3134.2 | 3151.4 |
| 3675.0  | 27.5° | 3624.9  | 3551.9  | 3376.0 | 3222.9 | 3101.3 | 3075.6 | 3068.4 | 3072.7 | 3082.7 | 3109.9 |
| 3795.1  | 30°   | 3752.2  | 3666.4  | 3438.9 | 3194.3 | 3024.1 | 2988.3 | 2965.4 | 2975.4 | 3006.9 | 3034.1 |
| 3899.5  | 32.5° | 3868.1  | 3782.2  | 3489.0 | 3131.4 | 2925.4 | 2869.6 | 2839.5 | 2852.4 | 2883.9 | 2893.9 |
| 4015.4  | 35°   | 4004.0  | 3906.7  | 3510.5 | 3031.2 | 2818.1 | 2732.3 | 2692.2 | 2673.6 | 2689.3 | 2679.3 |
| 4151.3  | 37.5° | 4155.6  | 4054.0  | 3507.6 | 2899.6 | 2692.2 | 2593.5 | 2537.7 | 2467.6 | 2434.7 | 2400.4 |
| 4351.6  | 40°   | 4380.2  | 4234.3  | 3473.3 | 2740.8 | 2536.3 | 2446.2 | 2346.0 | 2227.3 | 2152.9 | 2085.7 |
| 4674.9  | 42.5° | 4686.3  | 4484.6  | 3410.3 | 2566.3 | 2360.3 | 2275.9 | 2140.0 | 2001.3 | 1884.0 | 1772.4 |
| 5165.5  | 45°   | 5142.7  | 4812.2  | 3331.6 | 2380.4 | 2170.1 | 2087.1 | 1939.8 | 1783.8 | 1650.8 | 1507.7 |
| 5862.2  | 47.5° | 5800.7  | 5252.8  | 3257.3 | 2168.6 | 1969.8 | 1894.0 | 1760.9 | 1616.5 | 1459.1 | 1320.4 |
| 6869.3  | 50°   | 6704.8  | 5885.1  | 3188.6 | 1962.6 | 1772.4 | 1715.2 | 1609.3 | 1462.0 | 1303.2 | 1191.6 |
| 8049.4  | 52.5° | 7854.9  | 6744.8  | 3160.0 | 1763.8 | 1587.9 | 1566.4 | 1482.0 | 1344.7 | 1194.5 | 1100.1 |
| 9425.6  | 55°   | 9175.2  | 7773.3  | 3160.0 | 1573.6 | 1426.2 | 1433.4 | 1374.7 | 1247.4 | 1117.2 | 1032.8 |
| 10844.6 | 57.5° | 10522.8 | 8814.8  | 3102.8 | 1397.6 | 1288.9 | 1318.9 | 1281.7 | 1170.2 | 1052.8 | 965.6  |
| 12336.6 | 60°   | 11764.4 | 9687.4  | 2871.0 | 1237.4 | 1167.3 | 1214.5 | 1190.2 | 1094.3 | 951.3  | 878.3  |
| 13584.0 | 62.5° | 12718.6 | 10179.5 | 2424.7 | 1110.1 | 1067.2 | 1121.5 | 1108.6 | 994.2  | 932.7  | 902.6  |
| 14608.3 | 65°   | 13196.4 | 10099.3 | 1853.9 | 997.1  | 982.8  | 1067.2 | 1040.0 | 1035.7 | 987.0  | 952.7  |
| 14941.6 | 67.5° | 12903.1 | 9409.8  | 1344.7 | 914.1  | 934.1  | 1017.1 | 1121.5 | 1138.7 | 1048.6 | 981.3  |
| 14003.2 | 70°   | 11617.1 | 8162.4  | 1001.4 | 835.4  | 872.6  | 1018.5 | 1278.9 | 1191.6 | 1028.5 | 949.9  |
| 11230.9 | 72.5° | 8837.6  | 6086.8  | 776.8  | 752.4  | 792.5  | 1025.7 | 1349.0 | 1167.3 | 971.3  | 1050.0 |
| 6996.6  | 75°   | 5054.0  | 3341.7  | 623.7  | 650.9  | 692.4  | 958.4  | 1313.2 | 1104.3 | 927.0  | 964.2  |
| 2772.3  | 77.5° | 1926.9  | 1284.6  | 515.0  | 550.7  | 556.5  | 836.8  | 1256.0 | 1100.1 | 882.6  | 861.2  |
| 831.1   | 80°   | 668.0   | 502.1   | 426.3  | 437.7  | 430.6  | 743.9  | 1204.5 | 957.0  | 722.4  | 646.6  |
| 343.3   | 82.5° | 273.2   | 250.3   | 337.6  | 323.3  | 306.1  | 577.9  | 972.7  | 782.5  | 590.8  | 522.1  |
| 165.9   | 85°   | 118.7   | 158.8   | 223.2  | 196.0  | 177.4  | 400.5  | 779.6  | 662.3  | 499.2  | 430.6  |
| 54.4    | 87.5° | 24.3    | 60.1    | 94.4   | 88.7   | 91.6   | 267.5  | 553.6  | 470.6  | 353.3  | 264.6  |
| 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°   |
|--------|
| 2739.4 |
| 2732.3 |
| 2785.2 |
| 2875.3 |
| 2976.9 |
| 3071.3 |
| 3135.7 |
| 3172.9 |
| 3194.3 |
| 3195.7 |
| 3174.3 |
| 3137.1 |
| 3064.1 |
| 2929.7 |
| 2710.8 |
| 2421.8 |
| 2090.0 |
| 1762.4 |
| 1490.6 |
| 1304.6 |
| 1184.5 |
| 1092.9 |
| 1024.2 |
| 951.3  |
| 866.9  |
| 892.6  |
| 941.3  |
| 969.9  |
| 937.0  |
| 1041.4 |
| 964.2  |
| 785.3  |
| 625.1  |
| 516.4  |
| 429.2  |
| 207.4  |
| 0.0    |