

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: P943546

Luminaire Tested: **GLAN-SB8A-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24737 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

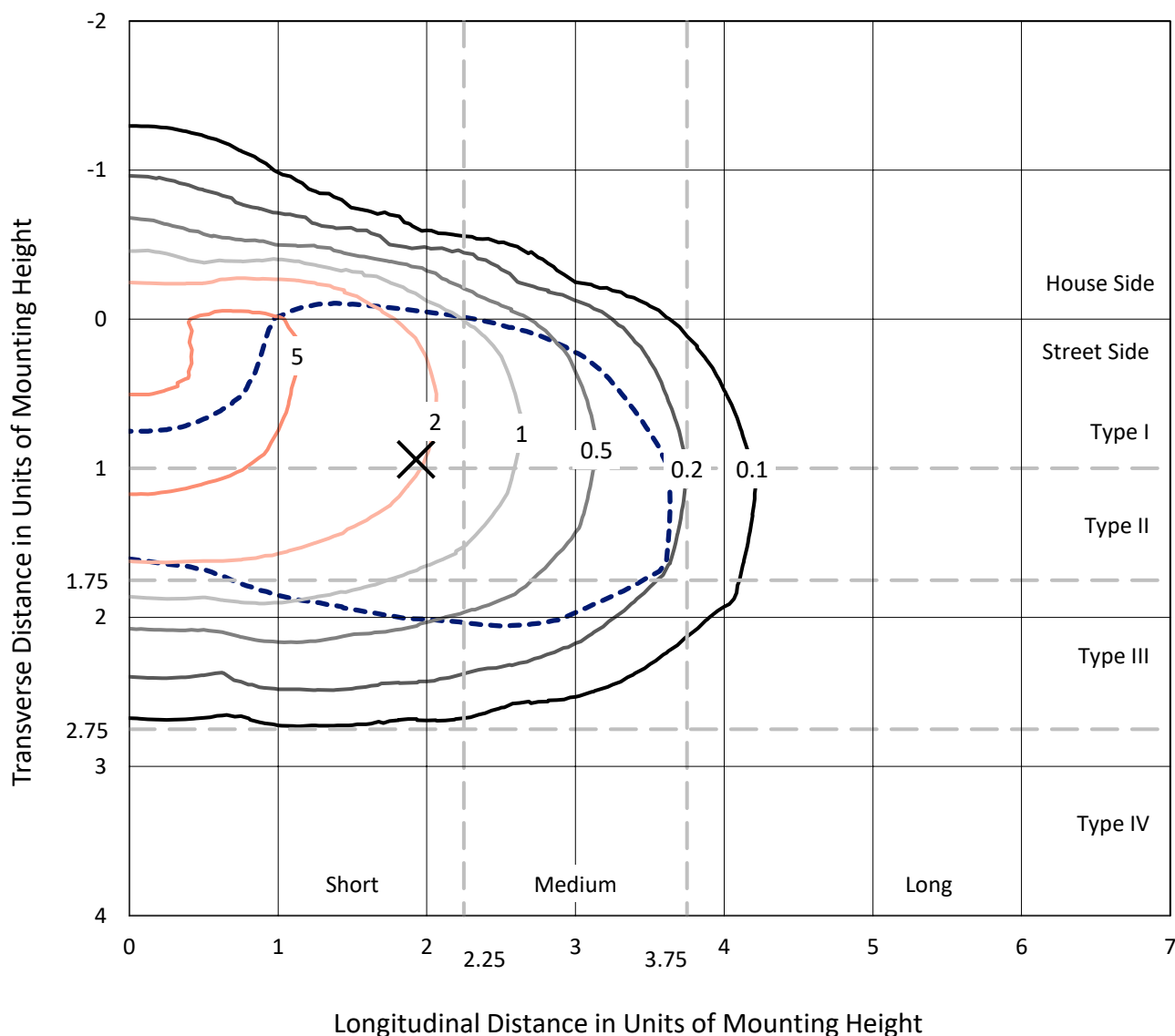
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

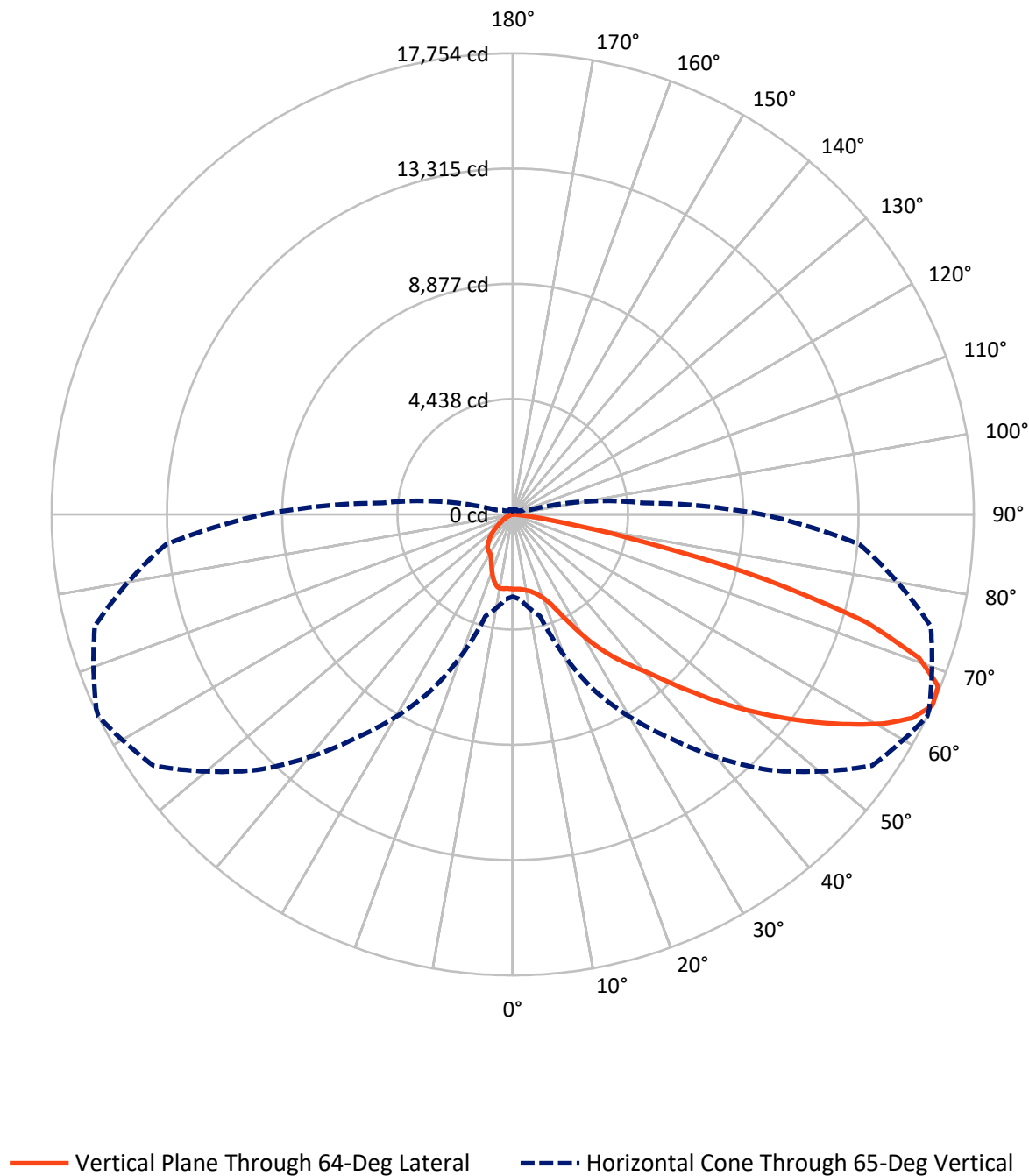


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3308.1   | 0.0    | 3308.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 21428.9  | 0.0    | 21428.9 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 24737.0  | 0.0    | 24737.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 265.5   | 1.1       |
| 10°-20°   | 720.0   | 2.9       |
| 20°-30°   | 1364.3  | 5.5       |
| 30°-40°   | 2760.7  | 11.2      |
| 40°-50°   | 4702.8  | 19.0      |
| 50°-60°   | 6395.5  | 25.9      |
| 60°-70°   | 6005.7  | 24.3      |
| 70°-80°   | 2406.1  | 9.7       |
| 80°-90°   | 116.6   | 0.5       |
| 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°    | 24737.0 | 100.0     |
| 0°-180°   | 24737.0 | 100.0     |

**Coefficient of Utilization**



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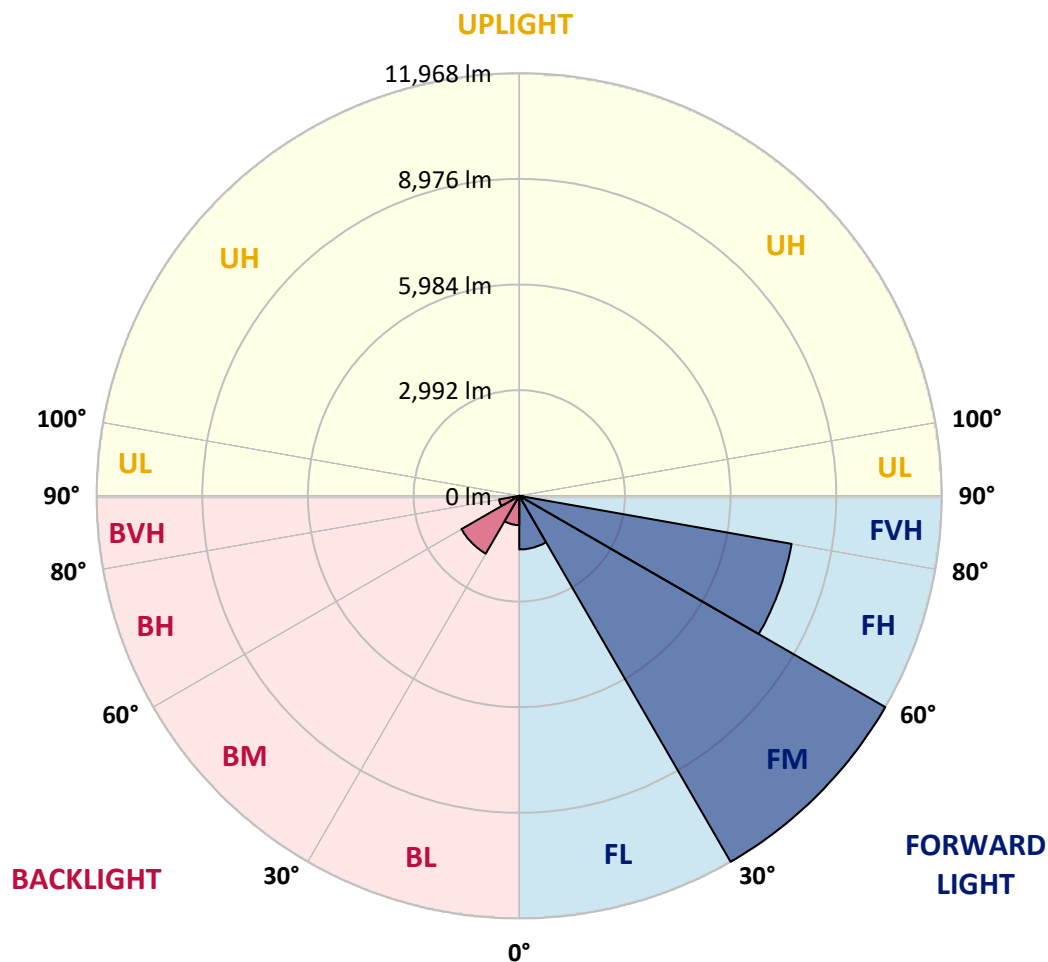
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1519.1  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 11967.7 | 48.4      |                         |      |          |
| FH   | (60°-80°)   | 7831.2  | 31.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 110.9   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 830.6   | 3.4       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1891.2  | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 580.6   | 2.3       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 5.7     | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2877.2  | 2877.2  | 2877.2  | 2877.2  | 2877.2  | 2877.2  | 2877.2  | 2877.2  | 2877.2  | 2877.2  |
| 2.5°  | 2867.2  | 2887.1  | 2882.1  | 2877.2  | 2875.5  | 2878.8  | 2880.5  | 2878.8  | 2878.8  | 2878.8  |
| 5°    | 2812.5  | 2829.1  | 2829.1  | 2840.7  | 2857.3  | 2877.2  | 2892.1  | 2895.4  | 2898.7  | 2903.7  |
| 7.5°  | 2708.0  | 2721.3  | 2731.2  | 2769.4  | 2810.8  | 2863.9  | 2908.7  | 2931.9  | 2935.2  | 2953.5  |
| 10°   | 2636.7  | 2653.3  | 2669.9  | 2709.7  | 2769.4  | 2849.0  | 2925.3  | 2981.6  | 2989.9  | 3033.1  |
| 12.5° | 2633.4  | 2650.0  | 2671.5  | 2714.7  | 2784.3  | 2868.9  | 2961.7  | 3043.0  | 3057.9  | 3120.9  |
| 15°   | 2668.2  | 2688.1  | 2708.0  | 2761.1  | 2835.7  | 2938.5  | 3038.0  | 3139.2  | 3154.1  | 3243.7  |
| 17.5° | 2739.5  | 2766.1  | 2781.0  | 2834.1  | 2913.7  | 3028.1  | 3159.1  | 3275.2  | 3288.4  | 3392.9  |
| 20°   | 2880.5  | 2912.0  | 2917.0  | 2960.1  | 3038.0  | 3160.7  | 3316.6  | 3460.9  | 3477.5  | 3596.9  |
| 22.5° | 3172.3  | 3217.1  | 3177.3  | 3198.9  | 3268.5  | 3391.2  | 3560.4  | 3742.8  | 3766.0  | 3902.0  |
| 25°   | 3686.4  | 3749.4  | 3646.6  | 3610.1  | 3640.0  | 3767.7  | 3979.9  | 4210.5  | 4237.0  | 4346.4  |
| 27.5° | 4696.3  | 4615.1  | 4459.2  | 4306.6  | 4217.1  | 4290.1  | 4528.8  | 4814.1  | 4847.2  | 4953.4  |
| 30°   | 5805.7  | 5734.4  | 5523.8  | 5185.5  | 4973.3  | 4961.7  | 5182.2  | 5500.6  | 5538.8  | 5639.9  |
| 32.5° | 6916.8  | 6848.8  | 6620.0  | 6203.7  | 5835.6  | 5653.2  | 5805.7  | 6159.0  | 6178.9  | 6243.5  |
| 35°   | 8009.6  | 7940.0  | 7711.1  | 7285.0  | 6832.2  | 6417.7  | 6387.8  | 6785.8  | 6792.4  | 6860.4  |
| 37.5° | 9109.1  | 9051.1  | 8807.3  | 8389.4  | 7943.3  | 7371.2  | 7094.3  | 7379.5  | 7387.8  | 7454.1  |
| 40°   | 9893.5  | 9918.4  | 9750.9  | 9427.5  | 9044.4  | 8419.2  | 7886.9  | 8011.3  | 7961.6  | 8072.7  |
| 42.5° | 10566.8 | 10616.5 | 10470.6 | 10308.1 | 10085.8 | 9535.3  | 8868.6  | 8847.1  | 8767.5  | 8827.2  |
| 45°   | 11148.8 | 11190.3 | 11059.3 | 11021.1 | 11016.2 | 10629.8 | 9941.6  | 9812.2  | 9701.1  | 9689.5  |
| 47.5° | 11362.7 | 11442.3 | 11498.7 | 11626.4 | 11875.2 | 11712.7 | 11051.0 | 10850.3 | 10726.0 | 10634.7 |
| 50°   | 11444.0 | 11528.6 | 11720.9 | 12092.4 | 12681.1 | 12750.8 | 12155.4 | 11929.9 | 11777.3 | 11611.5 |
| 52.5° | 11334.6 | 11485.5 | 11744.2 | 12369.3 | 13223.4 | 13583.2 | 13215.1 | 13017.7 | 12843.6 | 12573.3 |
| 55°   | 10689.5 | 10840.4 | 11369.4 | 12366.0 | 13493.7 | 14167.0 | 14216.7 | 14128.8 | 13933.1 | 13506.9 |
| 57.5° | 9329.7  | 9553.5  | 10391.0 | 11944.8 | 13488.7 | 14669.4 | 15198.4 | 15261.4 | 15042.5 | 14432.3 |
| 60°   | 7445.8  | 7749.3  | 8770.8  | 11011.2 | 13072.5 | 14941.4 | 16059.1 | 16374.2 | 16142.0 | 15344.4 |
| 62.5° | 5195.5  | 5547.1  | 6513.8  | 9548.6  | 12120.6 | 14745.7 | 16687.6 | 17269.7 | 17093.9 | 16160.2 |
| 65°   | 3169.0  | 3281.8  | 4061.2  | 7513.8  | 10502.1 | 13926.5 | 16881.6 | 17753.9 | 17695.8 | 16659.4 |
| 67.5° | 2111.0  | 2205.6  | 2429.4  | 5152.4  | 8152.3  | 12289.7 | 16417.3 | 17669.3 | 17685.9 | 16578.1 |
| 70°   | 1271.9  | 1353.2  | 1499.1  | 2996.6  | 5283.4  | 9727.7  | 14979.5 | 16591.4 | 16687.6 | 15491.9 |
| 72.5° | 524.0   | 578.8   | 711.4   | 1358.2  | 2736.2  | 6173.9  | 11928.2 | 14244.9 | 14468.8 | 13026.0 |
| 75°   | 296.8   | 325.0   | 417.9   | 681.6   | 1187.4  | 2877.2  | 7225.3  | 10112.4 | 10442.4 | 8978.1  |
| 77.5° | 197.3   | 210.6   | 270.3   | 441.1   | 668.3   | 981.7   | 3087.8  | 5268.5  | 5898.6  | 4903.6  |
| 80°   | 132.7   | 144.3   | 185.7   | 295.2   | 434.5   | 421.2   | 983.4   | 1951.8  | 2401.2  | 1684.8  |
| 82.5° | 89.5    | 91.2    | 132.7   | 194.0   | 275.3   | 204.0   | 290.2   | 606.9   | 762.8   | 487.5   |
| 85°   | 51.4    | 49.7    | 97.8    | 112.8   | 122.7   | 84.6    | 87.9    | 182.4   | 238.8   | 205.6   |
| 87.5° | 6.6     | 9.9     | 38.1    | 29.8    | 16.6    | 18.2    | 18.2    | 31.5    | 46.4    | 49.7    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2877.2  | 0°    | 2877.2  | 2877.2 | 2877.2 | 2877.2 | 2877.2 | 2877.2 | 2877.2 | 2877.2 | 2877.2 | 2877.2 |
| 2880.5  | 2.5°  | 2880.5  | 2878.8 | 2873.9 | 2868.9 | 2857.3 | 2850.6 | 2854.0 | 2850.6 | 2849.0 | 2850.6 |
| 2902.0  | 5°    | 2902.0  | 2897.1 | 2883.8 | 2867.2 | 2844.0 | 2815.8 | 2797.6 | 2771.0 | 2746.2 | 2731.2 |
| 2960.1  | 7.5°  | 2960.1  | 2955.1 | 2936.9 | 2890.4 | 2815.8 | 2698.1 | 2590.3 | 2495.8 | 2424.5 | 2383.0 |
| 3053.0  | 10°   | 3053.0  | 3044.7 | 3016.5 | 2913.7 | 2718.0 | 2460.9 | 2247.0 | 2069.6 | 1953.5 | 1898.8 |
| 3162.4  | 12.5° | 3162.4  | 3152.4 | 3102.7 | 2892.1 | 2532.2 | 2130.9 | 1835.8 | 1638.4 | 1530.6 | 1482.5 |
| 3288.4  | 15°   | 3291.7  | 3278.5 | 3180.6 | 2789.3 | 2261.9 | 1766.1 | 1495.8 | 1348.2 | 1278.6 | 1235.4 |
| 3449.3  | 17.5° | 3452.6  | 3429.4 | 3238.7 | 2635.1 | 1968.4 | 1487.5 | 1286.8 | 1175.7 | 1114.4 | 1072.9 |
| 3659.9  | 20°   | 3661.6  | 3623.4 | 3285.1 | 2451.0 | 1698.1 | 1311.7 | 1145.9 | 1053.0 | 1006.6 | 970.1  |
| 3958.4  | 22.5° | 3953.4  | 3898.7 | 3341.5 | 2252.0 | 1507.4 | 1190.7 | 1041.4 | 973.4  | 935.3  | 893.8  |
| 4374.6  | 25°   | 4314.9  | 4250.3 | 3411.1 | 2067.9 | 1376.4 | 1086.2 | 965.1  | 908.8  | 864.0  | 815.9  |
| 4920.2  | 27.5° | 4820.7  | 4704.6 | 3494.1 | 1917.0 | 1263.6 | 996.6  | 895.5  | 832.5  | 781.1  | 741.3  |
| 5538.8  | 30°   | 5384.5  | 5193.8 | 3567.0 | 1825.8 | 1160.8 | 913.7  | 804.3  | 741.3  | 693.2  | 665.0  |
| 6094.3  | 32.5° | 5918.5  | 5659.8 | 3615.1 | 1786.0 | 1068.0 | 819.2  | 704.8  | 636.8  | 600.3  | 592.0  |
| 6638.2  | 35°   | 6422.6  | 6081.0 | 3610.1 | 1747.9 | 985.0  | 724.7  | 606.9  | 537.3  | 509.1  | 514.1  |
| 7223.6  | 37.5° | 7003.0  | 6530.4 | 3575.3 | 1688.2 | 917.0  | 638.4  | 522.4  | 461.0  | 436.1  | 437.8  |
| 7935.0  | 40°   | 7678.0  | 7049.5 | 3553.8 | 1575.4 | 842.4  | 558.9  | 452.7  | 403.0  | 384.7  | 378.1  |
| 8684.6  | 42.5° | 8397.7  | 7551.9 | 3557.1 | 1447.7 | 749.6  | 487.5  | 404.6  | 363.2  | 346.6  | 341.6  |
| 9518.7  | 45°   | 9120.7  | 8031.2 | 3562.1 | 1315.0 | 651.7  | 432.8  | 369.8  | 335.0  | 325.0  | 318.4  |
| 10364.4 | 47.5° | 9800.6  | 8439.1 | 3469.2 | 1172.4 | 555.5  | 391.4  | 341.6  | 318.4  | 310.1  | 301.8  |
| 11213.5 | 50°   | 10434.1 | 8711.1 | 3245.3 | 1006.6 | 479.3  | 358.2  | 320.1  | 303.5  | 295.2  | 286.9  |
| 11983.0 | 52.5° | 10926.6 | 8754.2 | 2875.5 | 835.8  | 426.2  | 333.3  | 306.8  | 291.9  | 281.9  | 273.6  |
| 12604.8 | 55°   | 11145.5 | 8483.9 | 2349.8 | 676.6  | 384.7  | 311.8  | 293.5  | 278.6  | 267.0  | 258.7  |
| 13094.0 | 57.5° | 11089.1 | 7915.1 | 1832.4 | 543.9  | 344.9  | 290.2  | 276.9  | 267.0  | 253.7  | 240.5  |
| 13490.4 | 60°   | 10812.2 | 7154.0 | 1381.4 | 452.7  | 308.4  | 267.0  | 258.7  | 250.4  | 232.2  | 212.3  |
| 13642.9 | 62.5° | 10332.9 | 6197.1 | 985.0  | 374.8  | 268.6  | 240.5  | 237.1  | 230.5  | 204.0  | 167.5  |
| 13417.4 | 65°   | 9600.0  | 5034.6 | 663.3  | 311.8  | 230.5  | 210.6  | 212.3  | 200.7  | 165.8  | 124.4  |
| 12591.6 | 67.5° | 8528.7  | 3681.5 | 424.5  | 255.4  | 192.4  | 175.8  | 177.4  | 170.8  | 141.0  | 106.1  |
| 11026.1 | 70°   | 7163.9  | 2437.7 | 276.9  | 194.0  | 154.2  | 136.0  | 145.9  | 147.6  | 119.4  | 86.2   |
| 8462.4  | 72.5° | 5251.9  | 1439.4 | 194.0  | 144.3  | 112.8  | 94.5   | 119.4  | 122.7  | 96.2   | 64.7   |
| 5091.0  | 75°   | 2993.3  | 683.2  | 145.9  | 104.5  | 69.6   | 66.3   | 92.9   | 92.9   | 66.3   | 43.1   |
| 2203.9  | 77.5° | 1257.0  | 285.2  | 102.8  | 68.0   | 39.8   | 38.1   | 63.0   | 58.0   | 33.2   | 19.9   |
| 537.3   | 80°   | 363.2   | 127.7  | 54.7   | 33.2   | 16.6   | 14.9   | 24.9   | 18.2   | 8.3    | 3.3    |
| 204.0   | 82.5° | 142.6   | 56.4   | 21.6   | 13.3   | 6.6    | 6.6    | 3.3    | 0.0    | 0.0    | 0.0    |
| 116.1   | 85°   | 84.6    | 23.2   | 9.9    | 5.0    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 24.9    | 87.5° | 21.6    | 5.0    | 3.3    | 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°   |
|--------|
| 2877.2 |
| 2857.3 |
| 2734.6 |
| 2384.7 |
| 1893.8 |
| 1477.6 |
| 1237.1 |
| 1069.6 |
| 963.5  |
| 887.2  |
| 810.9  |
| 733.0  |
| 660.0  |
| 597.0  |
| 514.1  |
| 444.4  |
| 376.4  |
| 340.0  |
| 318.4  |
| 301.8  |
| 286.9  |
| 272.0  |
| 257.0  |
| 238.8  |
| 208.9  |
| 164.2  |
| 121.1  |
| 101.2  |
| 82.9   |
| 61.4   |
| 39.8   |
| 19.9   |
| 3.3    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |