

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: McGRAW-EDISON

Report Number: P956609

Luminaire Tested: **GALN-SB9A-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

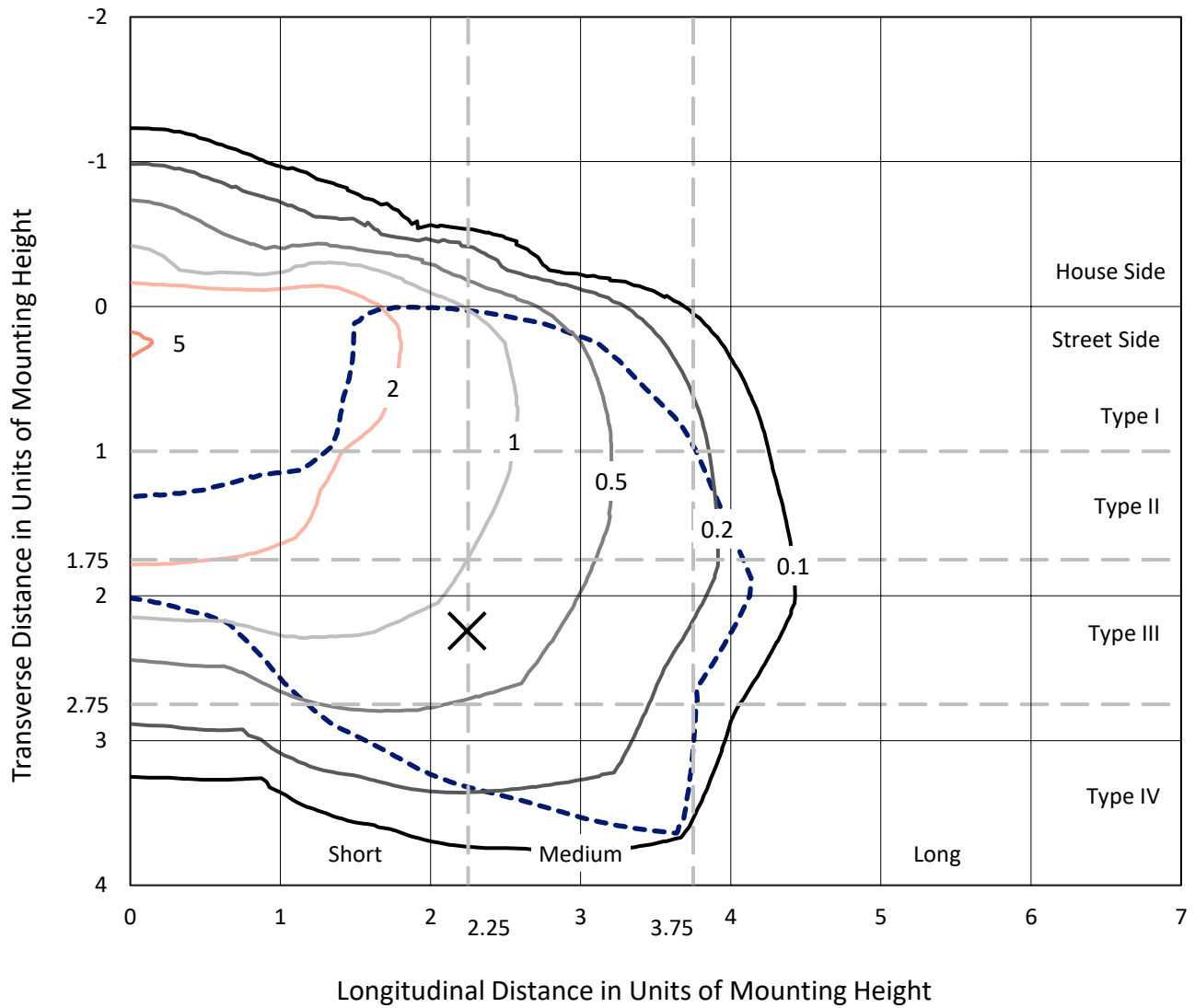
Lumens per Lamp: N/A  
Luminaire Lumens: 21894 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

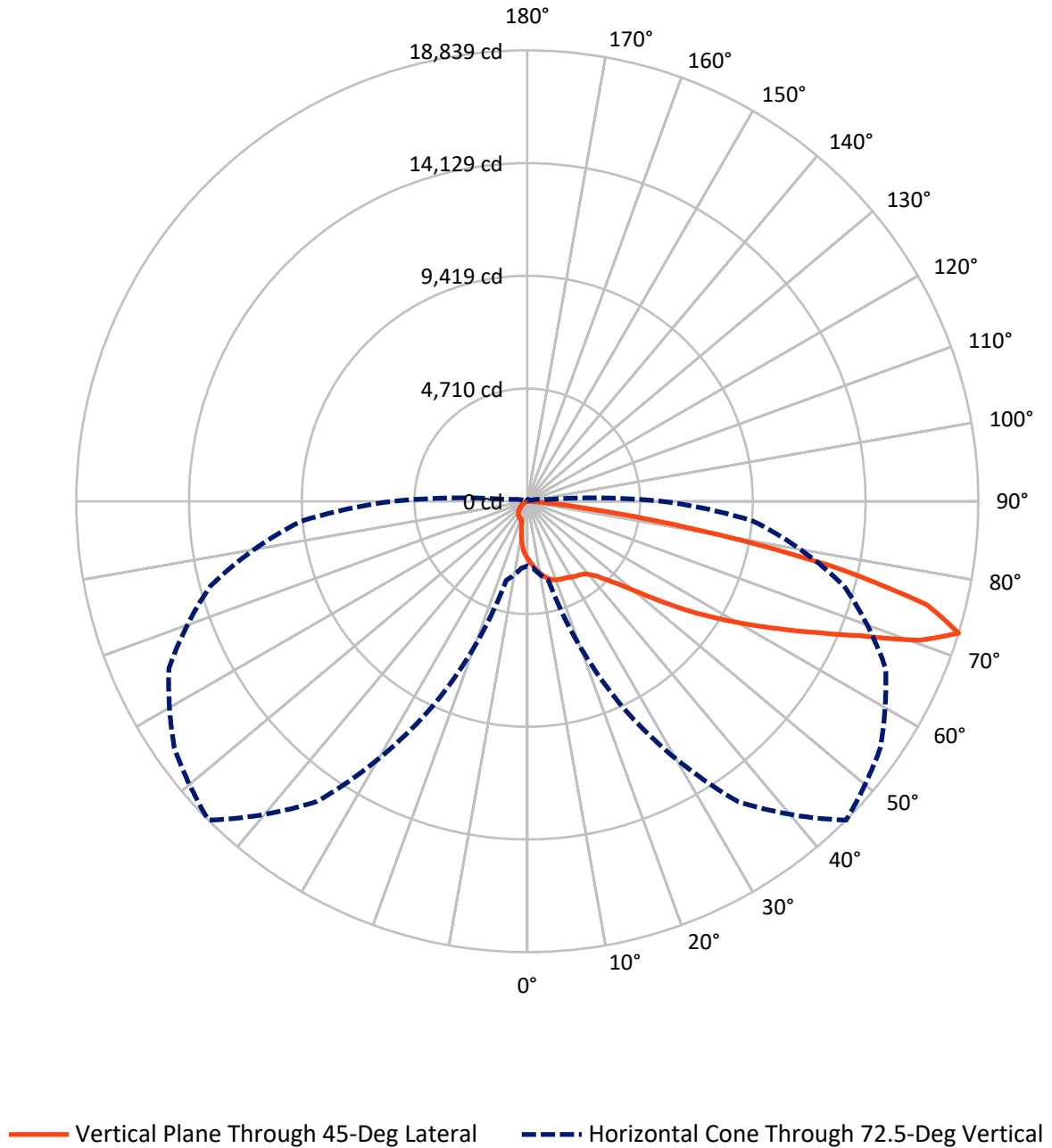
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - 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    | 2300.4   | 0.0    | 2300.4  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 19593.6  | 0.0    | 19593.6 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 21894.0  | 0.0    | 21894.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 226.0   | 1.0       |
| 10°-20°   | 660.5   | 3.0       |
| 20°-30°   | 1084.6  | 5.0       |
| 30°-40°   | 1538.2  | 7.0       |
| 40°-50°   | 2542.5  | 11.6      |
| 50°-60°   | 4567.3  | 20.9      |
| 60°-70°   | 6342.0  | 29.0      |
| 70°-80°   | 4600.3  | 21.0      |
| 80°-90°   | 332.6   | 1.5       |
| 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°    | 21894.0 | 100.0     |
| 0°-180°   | 21894.0 | 100.0     |

**Coefficient of Utilization**



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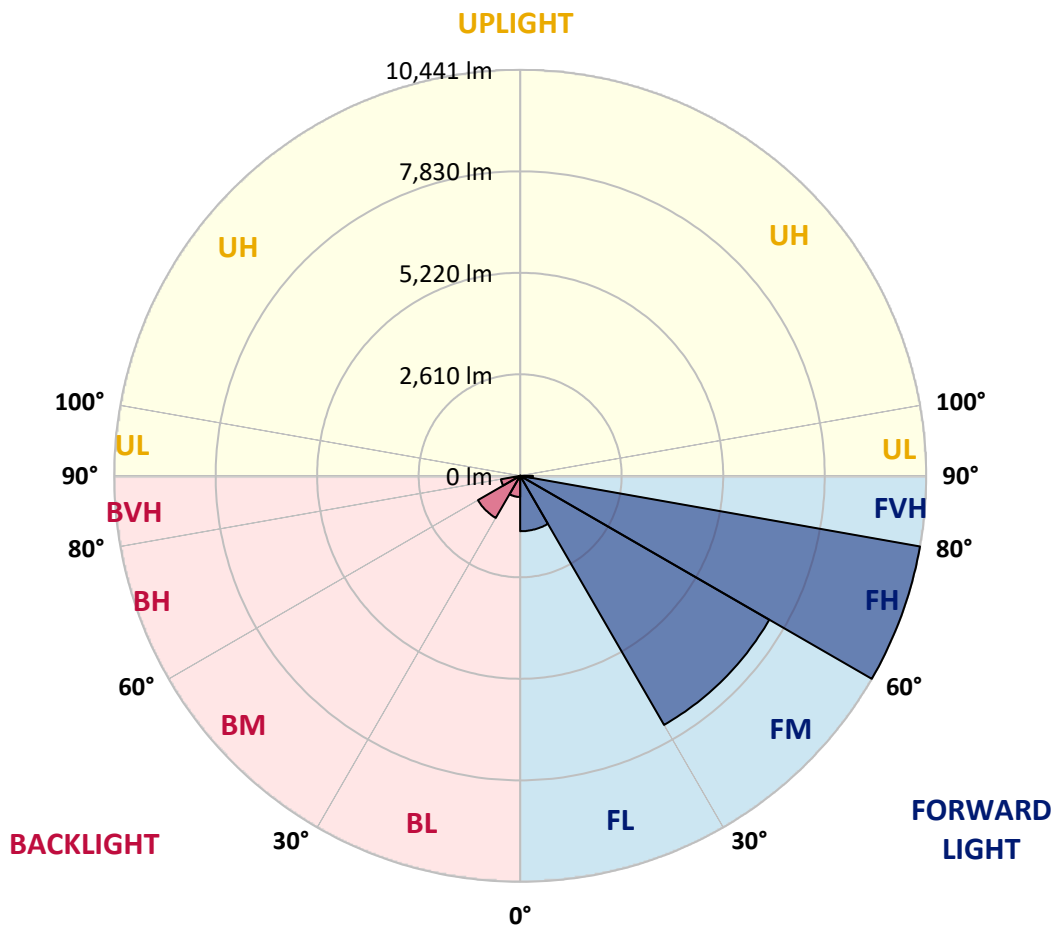
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1426.2  | 6.5       |                         |      |          |
| FM (30°-60°)   | 7397.0  | 33.8      |                         |      |          |
| FH (60°-80°)   | 10440.6 | 47.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 329.8   | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 544.9   | 2.5       | B2/1000                 |      |          |
| BM (30°-60°)   | 1251.1  | 5.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 501.7   | 2.3       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 2.8     | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2398.5  | 2398.5  | 2398.5  | 2398.5  | 2398.5  | 2398.5  | 2398.5  | 2398.5  | 2398.5  | 2398.5  |
| 2.5°  | 2619.7  | 2624.2  | 2621.2  | 2603.3  | 2573.4  | 2556.9  | 2548.0  | 2518.1  | 2498.7  | 2464.3  |
| 5°    | 2860.3  | 2878.2  | 2867.8  | 2831.9  | 2775.1  | 2734.8  | 2722.8  | 2661.6  | 2606.3  | 2542.0  |
| 7.5°  | 3115.9  | 3124.8  | 3105.4  | 3059.1  | 2982.9  | 2914.1  | 2903.6  | 2818.5  | 2730.3  | 2631.7  |
| 10°   | 3337.0  | 3347.5  | 3317.6  | 3250.4  | 3163.7  | 3078.5  | 3063.5  | 2969.4  | 2864.8  | 2743.7  |
| 12.5° | 3522.3  | 3532.8  | 3493.9  | 3413.2  | 3317.6  | 3229.4  | 3214.5  | 3115.9  | 3000.8  | 2866.3  |
| 15°   | 3662.8  | 3682.2  | 3629.9  | 3543.3  | 3440.1  | 3352.0  | 3344.5  | 3247.4  | 3135.3  | 2985.8  |
| 17.5° | 3745.0  | 3764.4  | 3715.1  | 3610.5  | 3522.3  | 3447.6  | 3438.6  | 3357.9  | 3253.3  | 3109.9  |
| 20°   | 3758.5  | 3776.4  | 3724.1  | 3632.9  | 3559.7  | 3499.9  | 3495.4  | 3437.2  | 3360.9  | 3223.5  |
| 22.5° | 3718.1  | 3740.5  | 3692.7  | 3619.5  | 3568.7  | 3537.3  | 3531.3  | 3498.4  | 3455.1  | 3338.5  |
| 25°   | 3676.3  | 3694.2  | 3658.3  | 3594.1  | 3567.2  | 3564.2  | 3568.7  | 3562.7  | 3553.7  | 3455.1  |
| 27.5° | 3673.3  | 3692.7  | 3652.3  | 3591.1  | 3576.1  | 3607.5  | 3612.0  | 3640.4  | 3647.9  | 3561.2  |
| 30°   | 3698.7  | 3712.1  | 3673.3  | 3609.0  | 3601.5  | 3673.3  | 3674.8  | 3725.6  | 3737.5  | 3650.9  |
| 32.5° | 3754.0  | 3768.9  | 3730.1  | 3635.9  | 3625.4  | 3725.6  | 3730.1  | 3797.3  | 3816.7  | 3746.5  |
| 35°   | 3884.0  | 3901.9  | 3857.1  | 3710.6  | 3673.3  | 3774.9  | 3788.3  | 3867.5  | 3906.4  | 3848.1  |
| 37.5° | 4208.3  | 4156.0  | 4094.7  | 3861.6  | 3782.4  | 3852.6  | 3875.0  | 3967.7  | 4036.4  | 3969.2  |
| 40°   | 5013.8  | 4849.4  | 4658.1  | 4118.6  | 3973.6  | 4018.5  | 4036.4  | 4129.1  | 4223.2  | 4157.5  |
| 42.5° | 6222.7  | 6028.5  | 5720.6  | 4710.4  | 4262.1  | 4284.5  | 4297.9  | 4378.6  | 4511.6  | 4459.3  |
| 45°   | 7300.2  | 7230.0  | 6916.1  | 5720.6  | 4801.6  | 4691.0  | 4707.4  | 4749.2  | 4945.0  | 4925.6  |
| 47.5° | 8128.1  | 8087.8  | 7845.7  | 6880.3  | 5713.1  | 5188.6  | 5234.9  | 5254.4  | 5536.8  | 5605.5  |
| 50°   | 8764.7  | 8749.8  | 8533.1  | 7911.4  | 6904.2  | 5922.4  | 5938.8  | 5897.0  | 6319.9  | 6490.2  |
| 52.5° | 9365.5  | 9416.3  | 9256.4  | 8869.3  | 8175.9  | 6883.3  | 6880.3  | 6683.0  | 7253.9  | 7510.9  |
| 55°   | 9908.0  | 9925.9  | 9942.3  | 9846.7  | 9455.2  | 7977.2  | 7948.8  | 7626.0  | 8337.3  | 8603.3  |
| 57.5° | 10417.6 | 10425.0 | 10571.5 | 10767.3 | 10786.7 | 9151.8  | 9099.5  | 8712.4  | 9520.9  | 9710.7  |
| 60°   | 10759.8 | 10794.2 | 11103.5 | 11647.5 | 11885.1 | 10363.8 | 10335.4 | 9940.8  | 10725.4 | 10813.6 |
| 62.5° | 10266.6 | 10475.8 | 11255.9 | 12334.9 | 12922.2 | 11707.2 | 11693.8 | 11323.2 | 11992.7 | 11920.9 |
| 65°   | 8310.4  | 8664.6  | 10036.5 | 12799.7 | 13939.9 | 13207.6 | 13227.1 | 12832.5 | 13294.3 | 13061.2 |
| 67.5° | 5813.3  | 6186.9  | 7809.8  | 12837.0 | 15077.1 | 14969.5 | 15081.6 | 14462.9 | 14676.6 | 14153.6 |
| 70°   | 4020.0  | 4212.8  | 5269.3  | 12033.0 | 15963.3 | 17396.5 | 17393.5 | 16465.5 | 16051.5 | 14651.2 |
| 72.5° | 2703.4  | 2803.5  | 3422.2  | 9546.3  | 15311.8 | 18838.6 | 18751.9 | 17995.7 | 16514.8 | 13702.3 |
| 75°   | 1140.2  | 1213.5  | 1584.1  | 5364.9  | 12113.7 | 17235.1 | 17000.5 | 15903.6 | 14673.6 | 10789.7 |
| 77.5° | 361.6   | 393.0   | 624.7   | 1920.3  | 6672.6  | 12955.1 | 12707.0 | 9931.9  | 9834.7  | 5412.8  |
| 80°   | 171.9   | 200.3   | 351.2   | 771.1   | 2625.7  | 7046.2  | 7011.8  | 4505.7  | 4230.7  | 1461.5  |
| 82.5° | 74.7    | 88.2    | 194.3   | 412.5   | 1174.6  | 2513.6  | 2564.4  | 1533.3  | 1268.8  | 554.4   |
| 85°   | 23.9    | 31.4    | 89.7    | 189.8   | 496.1   | 624.7   | 617.2   | 364.6   | 511.1   | 301.9   |
| 87.5° | 0.0     | 0.0     | 29.9    | 43.3    | 50.8    | 35.9    | 40.3    | 31.4    | 142.0   | 83.7    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2398.5  | 0°    | 2398.5 | 2398.5 | 2398.5 | 2398.5 | 2398.5 | 2398.5 | 2398.5 | 2398.5 | 2398.5 | 2398.5 |
| 2428.4  | 2.5°  | 2410.5 | 2386.6 | 2344.7 | 2305.9 | 2271.5 | 2237.1 | 2216.2 | 2186.3 | 2183.3 | 2183.3 |
| 2467.3  | 5°    | 2426.9 | 2388.1 | 2313.4 | 2234.1 | 2143.0 | 2056.3 | 1969.6 | 1886.0 | 1859.1 | 1839.6 |
| 2530.0  | 7.5°  | 2474.7 | 2413.5 | 2295.4 | 2144.5 | 1971.1 | 1781.3 | 1648.3 | 1504.9 | 1449.6 | 1419.7 |
| 2613.7  | 10°   | 2543.5 | 2459.8 | 2280.5 | 2016.0 | 1735.0 | 1476.5 | 1286.7 | 1131.3 | 1071.5 | 1046.1 |
| 2704.9  | 12.5° | 2619.7 | 2516.6 | 2253.6 | 1856.1 | 1476.5 | 1167.1 | 981.8  | 910.1  | 901.1  | 901.1  |
| 2814.0  | 15°   | 2710.9 | 2585.3 | 2207.2 | 1667.8 | 1206.0 | 923.5  | 857.8  | 860.8  | 869.7  | 875.7  |
| 2920.1  | 17.5° | 2805.0 | 2658.6 | 2134.0 | 1457.1 | 966.9  | 830.9  | 832.4  | 836.9  | 844.3  | 850.3  |
| 3035.2  | 20°   | 2906.6 | 2731.8 | 2036.9 | 1232.9 | 829.4  | 804.0  | 808.5  | 813.0  | 818.9  | 821.9  |
| 3142.8  | 22.5° | 3015.7 | 2800.5 | 1921.8 | 1013.2 | 783.1  | 781.6  | 783.1  | 787.6  | 795.0  | 795.0  |
| 3268.3  | 25°   | 3132.3 | 2876.7 | 1790.3 | 853.3  | 759.2  | 759.2  | 762.2  | 765.1  | 771.1  | 771.1  |
| 3389.3  | 27.5° | 3251.8 | 2947.0 | 1651.3 | 769.6  | 738.2  | 736.7  | 736.7  | 741.2  | 744.2  | 745.7  |
| 3508.9  | 30°   | 3383.4 | 3029.2 | 1512.3 | 751.7  | 721.8  | 714.3  | 709.8  | 712.8  | 715.8  | 717.3  |
| 3634.4  | 32.5° | 3517.9 | 3108.4 | 1388.3 | 759.2  | 705.4  | 691.9  | 677.0  | 674.0  | 674.0  | 680.0  |
| 3764.4  | 35°   | 3667.3 | 3195.1 | 1292.7 | 784.6  | 696.4  | 659.0  | 635.1  | 621.7  | 623.2  | 632.1  |
| 3919.8  | 37.5° | 3846.6 | 3299.7 | 1222.4 | 807.0  | 690.4  | 621.7  | 582.8  | 566.4  | 555.9  | 566.4  |
| 4133.5  | 40°   | 4081.2 | 3453.6 | 1171.6 | 824.9  | 682.9  | 578.3  | 526.0  | 499.1  | 479.7  | 485.7  |
| 4465.3  | 42.5° | 4426.5 | 3695.7 | 1152.2 | 826.4  | 666.5  | 527.5  | 467.8  | 431.9  | 403.5  | 405.0  |
| 4964.4  | 45°   | 4910.6 | 4078.3 | 1252.3 | 807.0  | 630.6  | 472.2  | 406.5  | 358.7  | 340.7  | 336.2  |
| 5710.2  | 47.5° | 5574.2 | 4635.7 | 1484.0 | 766.6  | 578.3  | 418.4  | 346.7  | 306.4  | 292.9  | 285.4  |
| 6689.0  | 50°   | 6463.3 | 5351.5 | 1741.0 | 721.8  | 526.0  | 367.6  | 297.4  | 272.0  | 263.0  | 255.5  |
| 7850.2  | 52.5° | 7494.5 | 6077.8 | 1951.7 | 677.0  | 473.7  | 322.8  | 266.0  | 251.1  | 243.6  | 237.6  |
| 8971.0  | 55°   | 8440.4 | 6578.4 | 1939.7 | 629.1  | 422.9  | 286.9  | 243.6  | 234.6  | 225.7  | 219.7  |
| 9936.4  | 57.5° | 9029.2 | 6648.6 | 1599.0 | 576.8  | 364.6  | 258.5  | 222.7  | 216.7  | 206.2  | 198.8  |
| 10771.7 | 60°   | 9299.7 | 6248.1 | 1120.8 | 508.1  | 306.4  | 231.6  | 200.3  | 197.3  | 183.8  | 173.4  |
| 11562.3 | 62.5° | 9349.1 | 5503.9 | 747.2  | 422.9  | 255.5  | 206.2  | 177.8  | 173.4  | 155.4  | 137.5  |
| 12204.9 | 65°   | 9148.8 | 4439.9 | 517.1  | 330.3  | 218.2  | 179.3  | 152.4  | 143.5  | 124.0  | 106.1  |
| 12357.3 | 67.5° | 8515.2 | 3117.3 | 360.2  | 237.6  | 185.3  | 142.0  | 121.0  | 118.1  | 103.1  | 88.2   |
| 11580.2 | 70°   | 7354.0 | 1776.9 | 240.6  | 177.8  | 146.5  | 97.1   | 95.6   | 98.6   | 83.7   | 71.7   |
| 9461.1  | 72.5° | 5638.4 | 813.0  | 149.4  | 130.0  | 100.1  | 65.8   | 76.2   | 77.7   | 64.3   | 53.8   |
| 5902.9  | 75°   | 3319.1 | 348.2  | 94.1   | 83.7   | 50.8   | 43.3   | 55.3   | 56.8   | 43.3   | 34.4   |
| 2157.9  | 77.5° | 1129.8 | 131.5  | 59.8   | 49.3   | 25.4   | 23.9   | 35.9   | 35.9   | 23.9   | 13.4   |
| 433.4   | 80°   | 257.0  | 49.3   | 29.9   | 19.4   | 12.0   | 10.5   | 12.0   | 10.5   | 6.0    | 1.5    |
| 133.0   | 82.5° | 73.2   | 19.4   | 12.0   | 7.5    | 4.5    | 4.5    | 1.5    | 0.0    | 0.0    | 0.0    |
| 46.3    | 85°   | 20.9   | 9.0    | 3.0    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16.4    | 87.5° | 9.0    | 1.5    | 0.0    | 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°   |
| 2398.5 |
| 2190.8 |
| 1848.6 |
| 1424.2 |
| 1046.1 |
| 901.1  |
| 875.7  |
| 850.3  |
| 823.4  |
| 798.0  |
| 772.6  |
| 747.2  |
| 720.3  |
| 684.4  |
| 636.6  |
| 563.4  |
| 482.7  |
| 399.0  |
| 330.3  |
| 280.9  |
| 254.1  |
| 236.1  |
| 216.7  |
| 197.3  |
| 170.4  |
| 128.5  |
| 100.1  |
| 83.7   |
| 65.8   |
| 47.8   |
| 29.9   |
| 10.5   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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