

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: P941404

Luminaire Tested: **GALN-SB4D-935-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4D-935-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

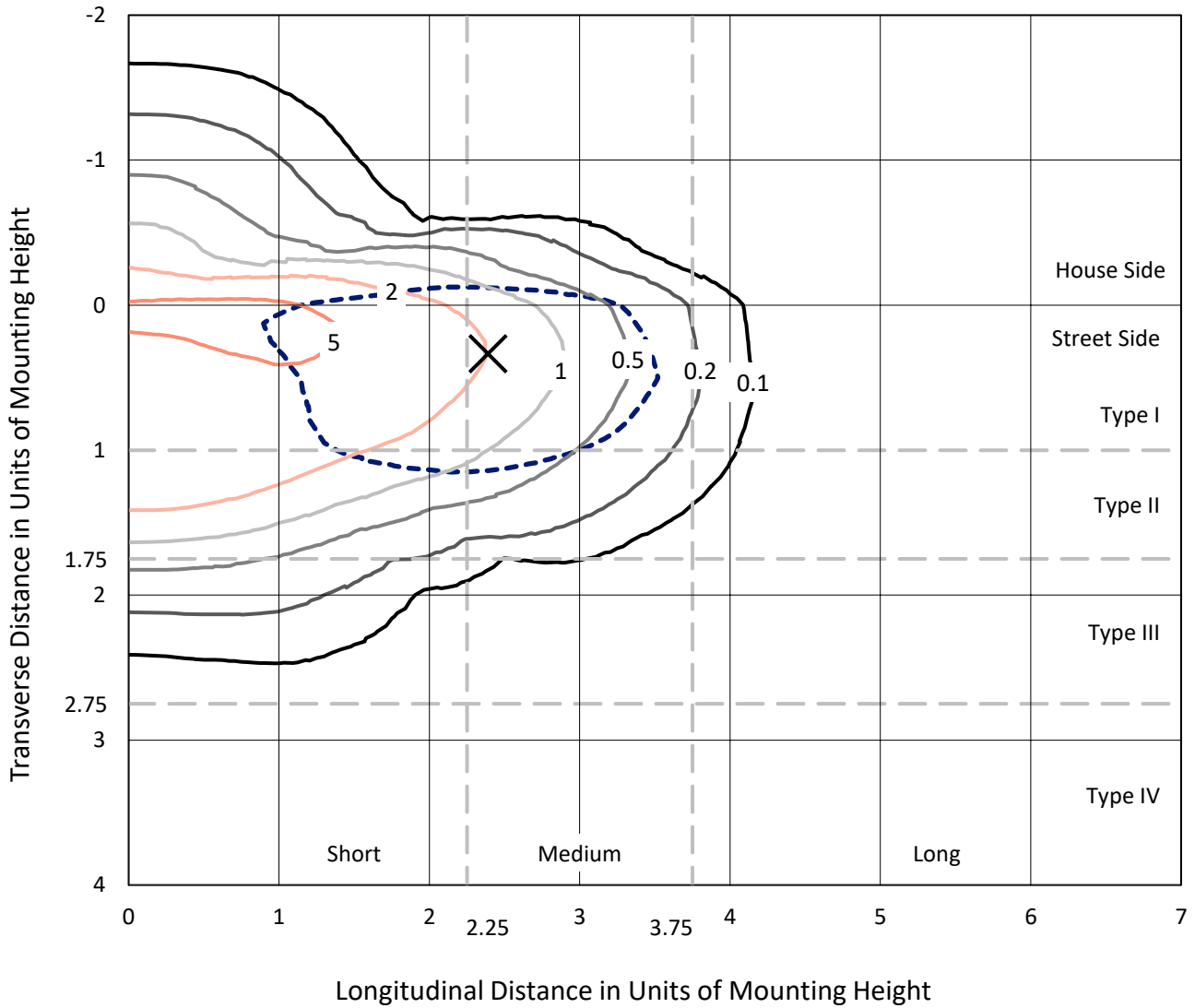
Lumens per Lamp: N/A  
Luminaire Lumens: 20717 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

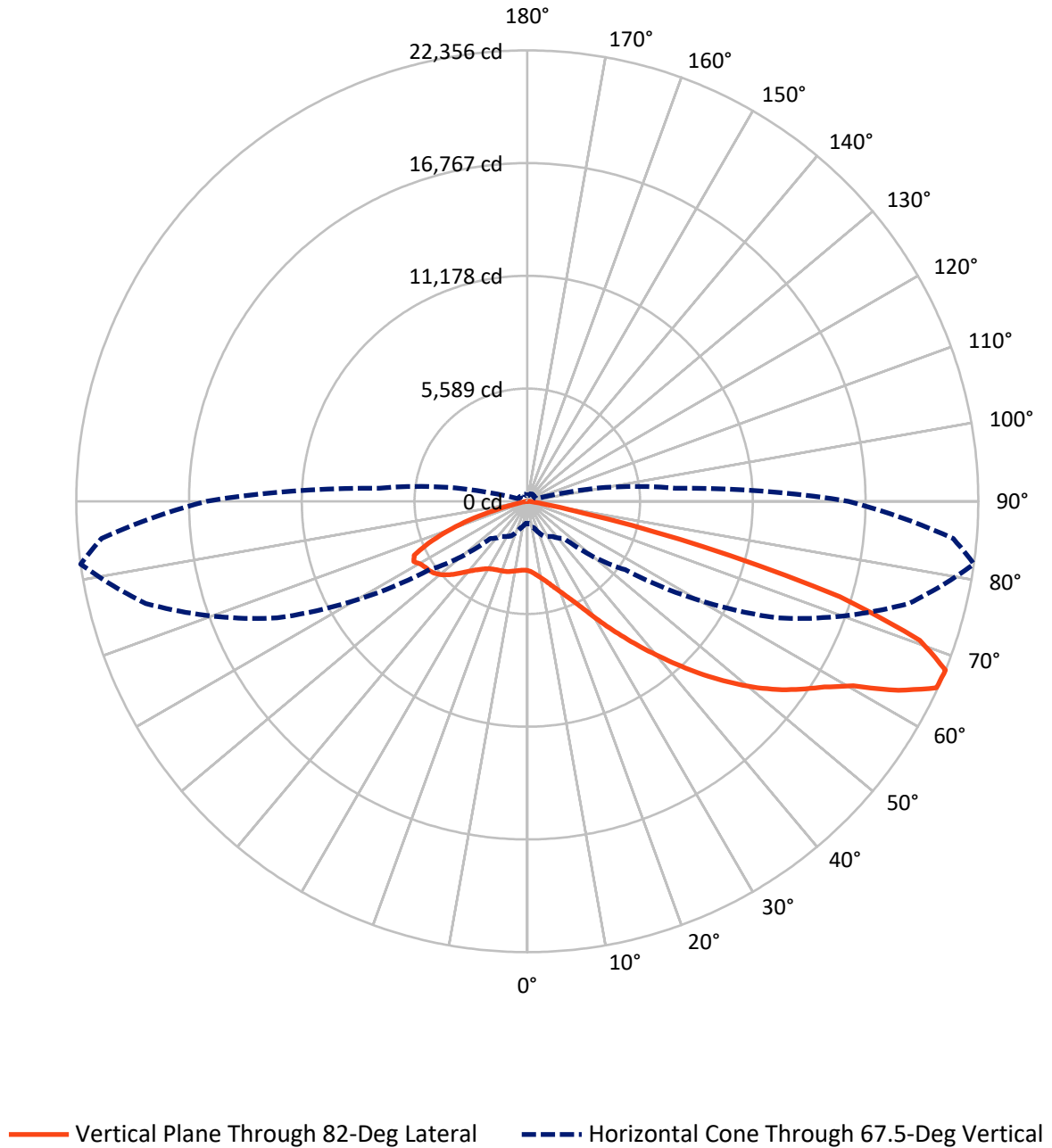
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - 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    | 3752.7   | 0.0    | 3752.7  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 16964.3  | 0.0    | 16964.3 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 20717.0  | 0.0    | 20717.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 305.8   | 1.5       |
| 10°-20°   | 794.6   | 3.8       |
| 20°-30°   | 1272.7  | 6.1       |
| 30°-40°   | 2250.5  | 10.9      |
| 40°-50°   | 3943.1  | 19.0      |
| 50°-60°   | 5258.9  | 25.4      |
| 60°-70°   | 4895.8  | 23.6      |
| 70°-80°   | 1879.0  | 9.1       |
| 80°-90°   | 116.7   | 0.6       |
| 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°    | 20717.0 | 100.0     |
| 0°-180°   | 20717.0 | 100.0     |

**Coefficient of Utilization**



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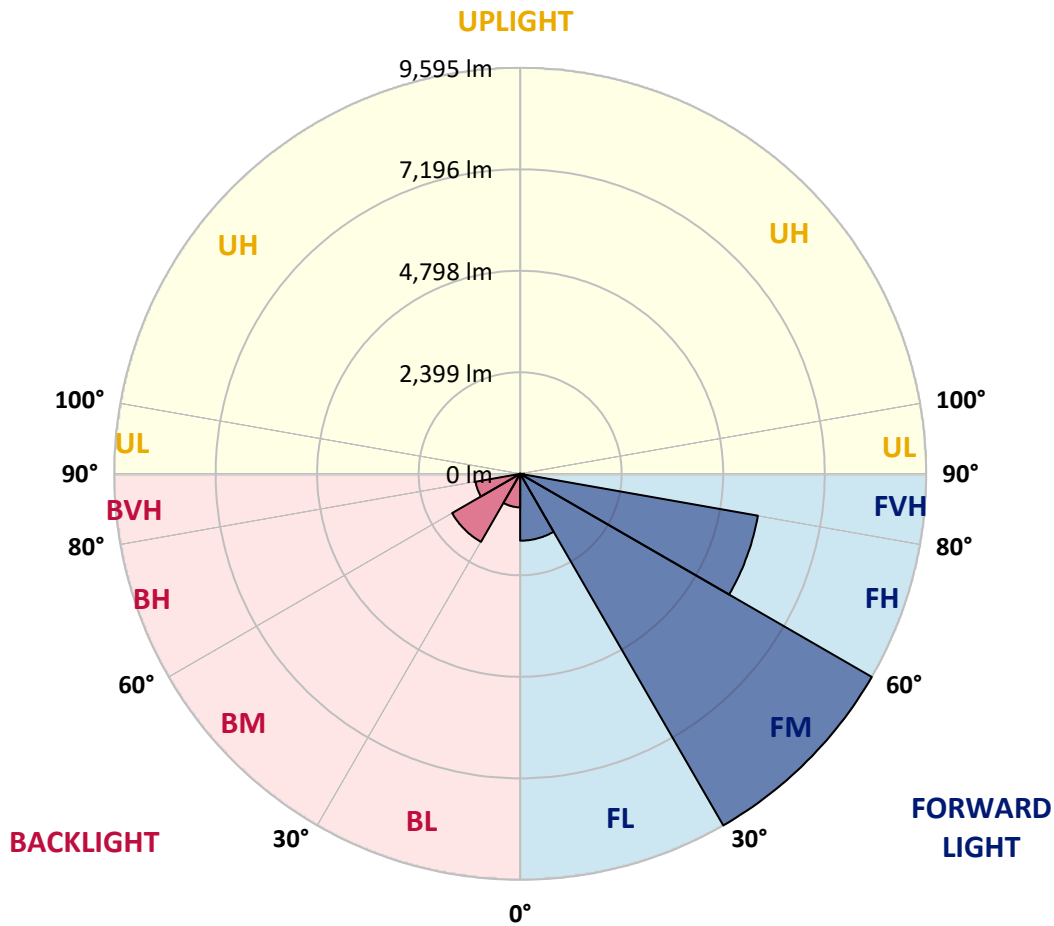
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1580.5 | 7.6       |                         |      |         |
| FM (30°-60°)   | 9595.3 | 46.3      |                         |      |         |
| FH (60°-80°)   | 5703.7 | 27.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 84.8   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 792.6  | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1857.2 | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 1071.1 | 5.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 31.9   | 0.2       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1  | 3432.1  | 3432.1  | 3432.1  |
| 2.5°  | 3627.5 | 3648.4 | 3636.5 | 3630.5 | 3620.0 | 3605.1 | 3593.2  | 3555.9  | 3517.1  | 3491.8  |
| 5°    | 3700.6 | 3721.5 | 3720.0 | 3725.9 | 3733.4 | 3737.9 | 3734.9  | 3693.1  | 3637.9  | 3594.7  |
| 7.5°  | 3637.9 | 3661.8 | 3681.2 | 3711.0 | 3763.2 | 3818.4 | 3845.3  | 3836.3  | 3779.6  | 3720.0  |
| 10°   | 3460.4 | 3485.8 | 3532.0 | 3602.1 | 3712.5 | 3831.8 | 3931.8  | 3978.0  | 3942.2  | 3876.6  |
| 12.5° | 3135.3 | 3160.6 | 3251.6 | 3403.8 | 3588.7 | 3796.0 | 3987.0  | 4110.8  | 4119.7  | 4054.1  |
| 15°   | 2769.8 | 2795.2 | 2892.2 | 3083.1 | 3365.0 | 3697.6 | 4016.8  | 4251.0  | 4330.0  | 4273.4  |
| 17.5° | 2543.1 | 2565.5 | 2638.6 | 2792.2 | 3086.1 | 3500.7 | 4006.4  | 4400.1  | 4580.6  | 4535.9  |
| 20°   | 2474.5 | 2493.9 | 2528.2 | 2635.6 | 2880.2 | 3296.4 | 3937.7  | 4540.3  | 4850.6  | 4825.2  |
| 22.5° | 2547.6 | 2565.5 | 2575.9 | 2623.7 | 2777.3 | 3162.1 | 3851.2  | 4683.5  | 5163.8  | 5166.8  |
| 25°   | 2716.2 | 2734.1 | 2722.1 | 2751.9 | 2819.1 | 3120.4 | 3818.4  | 4852.1  | 5557.6  | 5590.4  |
| 27.5° | 2993.6 | 2995.1 | 2966.7 | 2965.2 | 2975.7 | 3183.0 | 3852.7  | 5032.6  | 6054.3  | 6115.4  |
| 30°   | 3549.9 | 3527.6 | 3418.7 | 3300.8 | 3247.2 | 3371.0 | 3948.2  | 5245.9  | 6640.5  | 6749.4  |
| 32.5° | 4407.6 | 4374.8 | 4174.9 | 3893.0 | 3609.6 | 3673.7 | 4119.7  | 5489.0  | 7278.9  | 7475.8  |
| 35°   | 5338.3 | 5329.4 | 5120.6 | 4701.4 | 4206.2 | 4104.8 | 4398.6  | 5808.2  | 7975.4  | 8288.7  |
| 37.5° | 6203.4 | 6199.0 | 6079.6 | 5585.9 | 4983.3 | 4705.9 | 4846.1  | 6225.8  | 8721.2  | 9174.7  |
| 40°   | 6994.0 | 7007.4 | 6888.1 | 6446.6 | 5839.5 | 5477.1 | 5454.7  | 6741.9  | 9550.5  | 10139.7 |
| 42.5° | 7677.1 | 7692.0 | 7571.2 | 7244.6 | 6685.2 | 6330.2 | 6202.0  | 7374.3  | 10360.5 | 11176.3 |
| 45°   | 8141.0 | 8233.5 | 8215.6 | 7954.6 | 7553.3 | 7184.9 | 7099.9  | 8167.8  | 11283.7 | 12275.6 |
| 47.5° | 8272.3 | 8357.3 | 8491.5 | 8527.3 | 8282.7 | 7920.2 | 8021.7  | 9123.9  | 12217.5 | 13376.4 |
| 50°   | 7948.6 | 8027.6 | 8306.6 | 8678.0 | 8848.0 | 8736.1 | 8918.1  | 10148.7 | 13173.6 | 14474.2 |
| 52.5° | 7310.2 | 7390.7 | 7742.7 | 8330.4 | 9024.0 | 9376.0 | 9817.5  | 11158.4 | 14099.8 | 15513.8 |
| 55°   | 6386.9 | 6471.9 | 6923.9 | 7589.1 | 8688.4 | 9640.0 | 10567.8 | 12166.7 | 14948.5 | 16449.0 |
| 57.5° | 5131.0 | 5193.7 | 5663.5 | 6594.2 | 7844.2 | 9377.5 | 11121.2 | 13267.5 | 15748.0 | 17367.9 |
| 60°   | 3344.1 | 3399.3 | 3945.2 | 4983.3 | 6445.1 | 8500.5 | 11231.5 | 14495.1 | 16810.0 | 18562.6 |
| 62.5° | 2223.9 | 2261.2 | 2584.9 | 3347.1 | 4538.9 | 6816.5 | 10585.7 | 15475.1 | 18367.2 | 20641.9 |
| 65°   | 1525.9 | 1563.2 | 1886.8 | 2417.8 | 2932.4 | 4509.0 | 8728.7  | 15345.3 | 19778.2 | 22293.0 |
| 67.5° | 1088.8 | 1120.2 | 1394.6 | 1895.8 | 2122.5 | 2619.2 | 5917.1  | 13686.7 | 19575.4 | 22355.7 |
| 70°   | 780.1  | 798.0  | 1024.7 | 1476.7 | 1687.0 | 1573.6 | 3290.4  | 10467.8 | 17139.6 | 20643.3 |
| 72.5° | 545.9  | 551.9  | 711.5  | 1124.6 | 1358.8 | 1148.5 | 1566.1  | 6979.1  | 12963.2 | 16202.9 |
| 75°   | 369.9  | 377.4  | 478.8  | 824.8  | 1090.3 | 877.0  | 829.3   | 3742.4  | 7610.0  | 8968.8  |
| 77.5° | 226.7  | 229.7  | 308.8  | 563.8  | 815.9  | 668.2  | 534.0   | 1585.5  | 2944.4  | 2890.7  |
| 80°   | 128.3  | 128.3  | 196.9  | 350.5  | 556.4  | 431.1  | 374.4   | 674.2   | 932.2   | 818.9   |
| 82.5° | 71.6   | 73.1   | 143.2  | 217.8  | 368.4  | 255.1  | 205.8   | 311.7   | 402.7   | 356.5   |
| 85°   | 29.8   | 32.8   | 88.0   | 102.9  | 176.0  | 126.8  | 83.5    | 131.3   | 149.2   | 132.7   |
| 87.5° | 3.0    | 4.5    | 26.8   | 19.4   | 20.9   | 25.4   | 11.9    | 25.4    | 20.9    | 20.9    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3432.1  | 0°    | 3432.1  | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1 | 3432.1 |
| 3482.8  | 2.5°  | 3454.5  | 3432.1 | 3375.4 | 3309.8 | 3223.3 | 3181.5 | 3124.8 | 3086.1 | 3053.2 | 3056.2 |
| 3569.3  | 5°    | 3521.6  | 3464.9 | 3338.1 | 3180.0 | 2983.1 | 2842.9 | 2693.8 | 2590.9 | 2507.3 | 2489.4 |
| 3688.7  | 7.5°  | 3614.1  | 3524.6 | 3302.3 | 3017.4 | 2684.8 | 2432.8 | 2207.5 | 2062.8 | 1959.9 | 1927.1 |
| 3833.3  | 10°   | 3733.4  | 3603.6 | 3256.1 | 2813.1 | 2334.3 | 2013.6 | 1772.0 | 1658.6 | 1588.5 | 1564.7 |
| 4003.4  | 12.5° | 3872.1  | 3694.6 | 3194.9 | 2564.0 | 1973.3 | 1664.6 | 1511.0 | 1454.3 | 1431.9 | 1424.5 |
| 4212.2  | 15°   | 4046.6  | 3808.0 | 3102.5 | 2268.7 | 1667.6 | 1451.3 | 1385.7 | 1378.2 | 1381.2 | 1378.2 |
| 4462.8  | 17.5° | 4254.0  | 3931.8 | 2951.8 | 1964.4 | 1461.7 | 1342.4 | 1318.5 | 1324.5 | 1332.0 | 1330.5 |
| 4743.2  | 20°   | 4480.7  | 4054.1 | 2759.4 | 1694.4 | 1321.5 | 1264.9 | 1251.4 | 1257.4 | 1263.4 | 1260.4 |
| 5066.9  | 22.5° | 4738.7  | 4185.3 | 2546.1 | 1484.1 | 1227.6 | 1193.3 | 1178.3 | 1179.8 | 1179.8 | 1173.9 |
| 5477.1  | 25°   | 5047.5  | 4330.0 | 2322.4 | 1335.0 | 1156.0 | 1129.1 | 1111.2 | 1105.3 | 1096.3 | 1078.4 |
| 5975.2  | 27.5° | 5415.9  | 4483.7 | 2107.6 | 1230.5 | 1099.3 | 1073.9 | 1053.0 | 1038.1 | 1015.8 | 985.9  |
| 6573.4  | 30°   | 5830.6  | 4670.1 | 1925.6 | 1164.9 | 1054.5 | 1029.2 | 1005.3 | 982.9  | 950.1  | 912.8  |
| 7261.0  | 32.5° | 6318.3  | 4870.0 | 1792.9 | 1121.7 | 1014.3 | 987.4  | 959.1  | 932.2  | 896.4  | 859.1  |
| 8033.6  | 35°   | 6900.0  | 5111.6 | 1715.3 | 1091.8 | 982.9  | 947.1  | 915.8  | 886.0  | 859.1  | 826.3  |
| 8873.4  | 37.5° | 7530.9  | 5368.2 | 1691.4 | 1076.9 | 962.1  | 906.9  | 871.1  | 850.2  | 847.2  | 827.8  |
| 9781.7  | 40°   | 8221.5  | 5672.4 | 1709.3 | 1068.0 | 939.7  | 868.1  | 829.3  | 824.8  | 832.3  | 798.0  |
| 10752.7 | 42.5° | 8952.4  | 6033.4 | 1739.2 | 1057.5 | 908.4  | 829.3  | 792.0  | 792.0  | 786.1  | 738.3  |
| 11778.9 | 45°   | 9742.9  | 6449.6 | 1769.0 | 1032.2 | 871.1  | 790.5  | 762.2  | 751.8  | 726.4  | 680.2  |
| 12811.1 | 47.5° | 10539.4 | 6873.2 | 1791.4 | 985.9  | 826.3  | 757.7  | 732.4  | 708.5  | 671.2  | 629.4  |
| 13823.9 | 50°   | 11295.7 | 7253.5 | 1767.5 | 917.3  | 775.6  | 726.4  | 699.5  | 666.7  | 626.5  | 598.1  |
| 14783.0 | 52.5° | 11971.4 | 7583.1 | 1666.1 | 836.8  | 721.9  | 693.6  | 669.7  | 635.4  | 602.6  | 572.8  |
| 15648.1 | 55°   | 12559.0 | 7850.1 | 1487.1 | 760.7  | 674.2  | 665.2  | 641.4  | 598.1  | 553.4  | 528.0  |
| 16505.7 | 57.5° | 13122.8 | 8053.0 | 1263.4 | 698.1  | 630.9  | 633.9  | 598.1  | 559.3  | 517.6  | 490.7  |
| 17661.7 | 60°   | 13873.1 | 8324.5 | 1036.6 | 639.9  | 584.7  | 593.6  | 554.9  | 526.5  | 474.3  | 440.0  |
| 19644.0 | 62.5° | 15072.3 | 8746.6 | 823.3  | 568.3  | 531.0  | 534.0  | 517.6  | 483.3  | 420.6  | 380.4  |
| 21113.2 | 65°   | 16024.0 | 8591.5 | 648.8  | 490.7  | 469.8  | 474.3  | 474.3  | 437.0  | 369.9  | 323.7  |
| 21192.2 | 67.5° | 15916.6 | 7356.4 | 517.6  | 414.7  | 411.7  | 414.7  | 425.1  | 393.8  | 328.1  | 290.9  |
| 19578.4 | 70°   | 14662.1 | 5851.4 | 414.7  | 344.6  | 358.0  | 350.5  | 380.4  | 359.5  | 295.3  | 258.0  |
| 15178.2 | 72.5° | 11963.9 | 4215.2 | 316.2  | 284.9  | 274.4  | 286.4  | 343.1  | 323.7  | 246.1  | 204.3  |
| 8039.6  | 75°   | 6991.0  | 2249.3 | 235.7  | 225.2  | 198.4  | 238.7  | 304.3  | 275.9  | 187.9  | 150.6  |
| 2464.1  | 77.5° | 2276.1  | 784.6  | 173.0  | 165.6  | 147.7  | 192.4  | 259.5  | 232.7  | 153.6  | 119.3  |
| 721.9   | 80°   | 610.1   | 237.2  | 117.8  | 108.9  | 95.5   | 143.2  | 205.8  | 185.0  | 110.4  | 77.6   |
| 310.2   | 82.5° | 244.6   | 99.9   | 68.6   | 61.2   | 52.2   | 98.4   | 162.6  | 149.2  | 82.0   | 49.2   |
| 97.0    | 85°   | 79.1    | 32.8   | 25.4   | 19.4   | 23.9   | 61.2   | 97.0   | 101.4  | 58.2   | 25.4   |
| 14.9    | 87.5° | 10.4    | 4.5    | 4.5    | 6.0    | 4.5    | 10.4   | 29.8   | 28.3   | 16.4   | 3.0    |
| 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°   |
| 3432.1 |
| 3026.4 |
| 2449.2 |
| 1894.3 |
| 1546.8 |
| 1420.0 |
| 1376.7 |
| 1327.5 |
| 1258.9 |
| 1170.9 |
| 1075.4 |
| 982.9  |
| 909.9  |
| 860.6  |
| 823.3  |
| 826.3  |
| 799.5  |
| 738.3  |
| 678.7  |
| 628.0  |
| 593.6  |
| 569.8  |
| 525.0  |
| 487.7  |
| 435.5  |
| 377.4  |
| 319.2  |
| 284.9  |
| 253.6  |
| 199.9  |
| 146.2  |
| 114.9  |
| 76.1   |
| 49.2   |
| 19.4   |
| 0.0    |
| 0.0    |

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