

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: P956427

Luminaire Tested: **GALN-SB9A-830-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

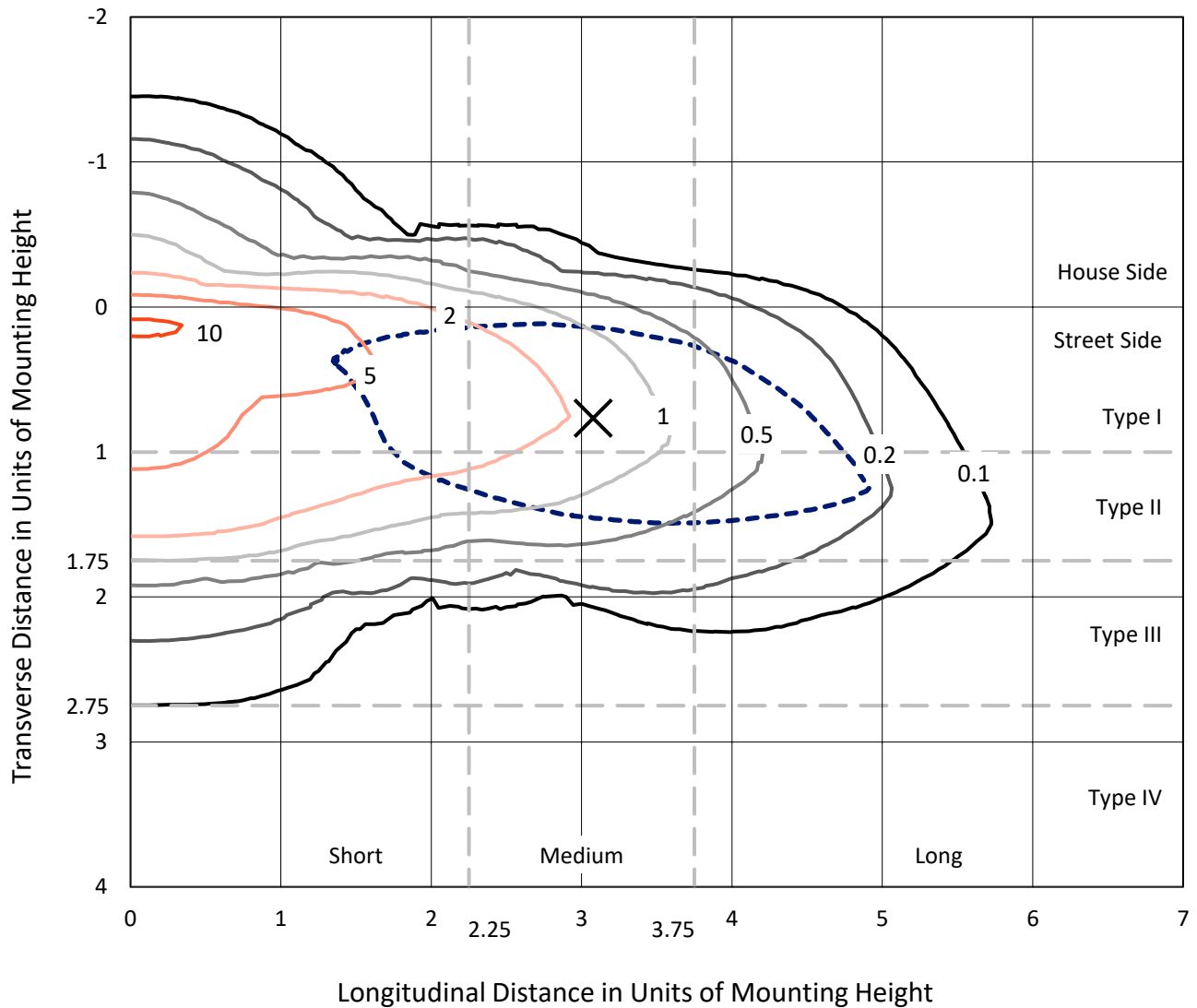
Lumens per Lamp: N/A  
Luminaire Lumens: 29756 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

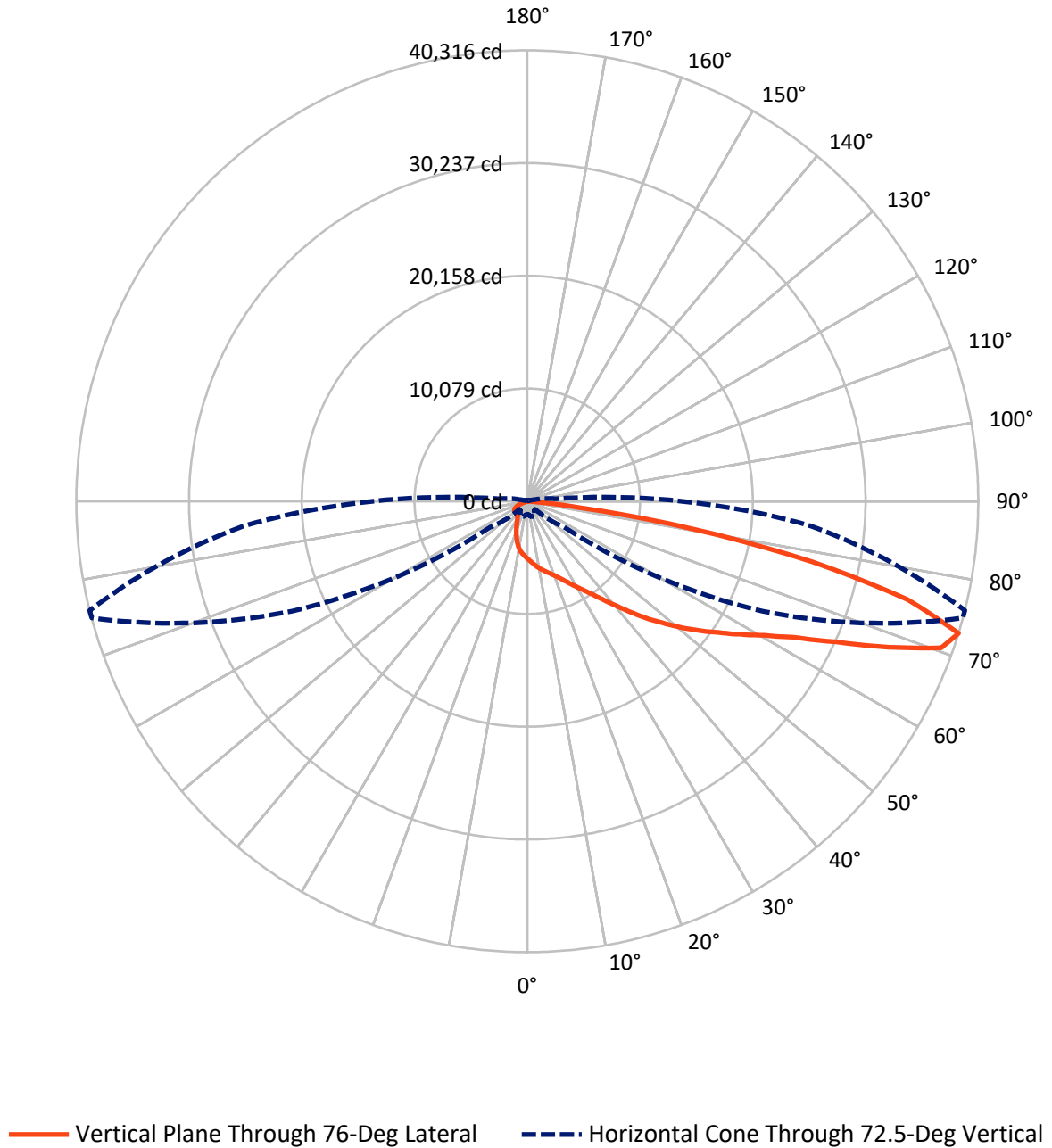
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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    | 3045.5   | 0.0    | 3045.5  |
|                    | % Fixture | 10.2     | 0.0    | 10.2    |
| <b>Street Side</b> | Lumens    | 26710.5  | 0.0    | 26710.5 |
|                    | % Fixture | 89.8     | 0.0    | 89.8    |
| <b>Total</b>       | Lumens    | 29756.0  | 0.0    | 29756.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 467.7   | 1.6       |
| 10°-20°   | 1254.0  | 4.2       |
| 20°-30°   | 1984.7  | 6.7       |
| 30°-40°   | 3070.6  | 10.3      |
| 40°-50°   | 4663.8  | 15.7      |
| 50°-60°   | 6429.5  | 21.6      |
| 60°-70°   | 6792.4  | 22.8      |
| 70°-80°   | 4659.7  | 15.7      |
| 80°-90°   | 433.7   | 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°    | 29756.0 | 100.0     |
| 0°-180°   | 29756.0 | 100.0     |

**Coefficient of Utilization**



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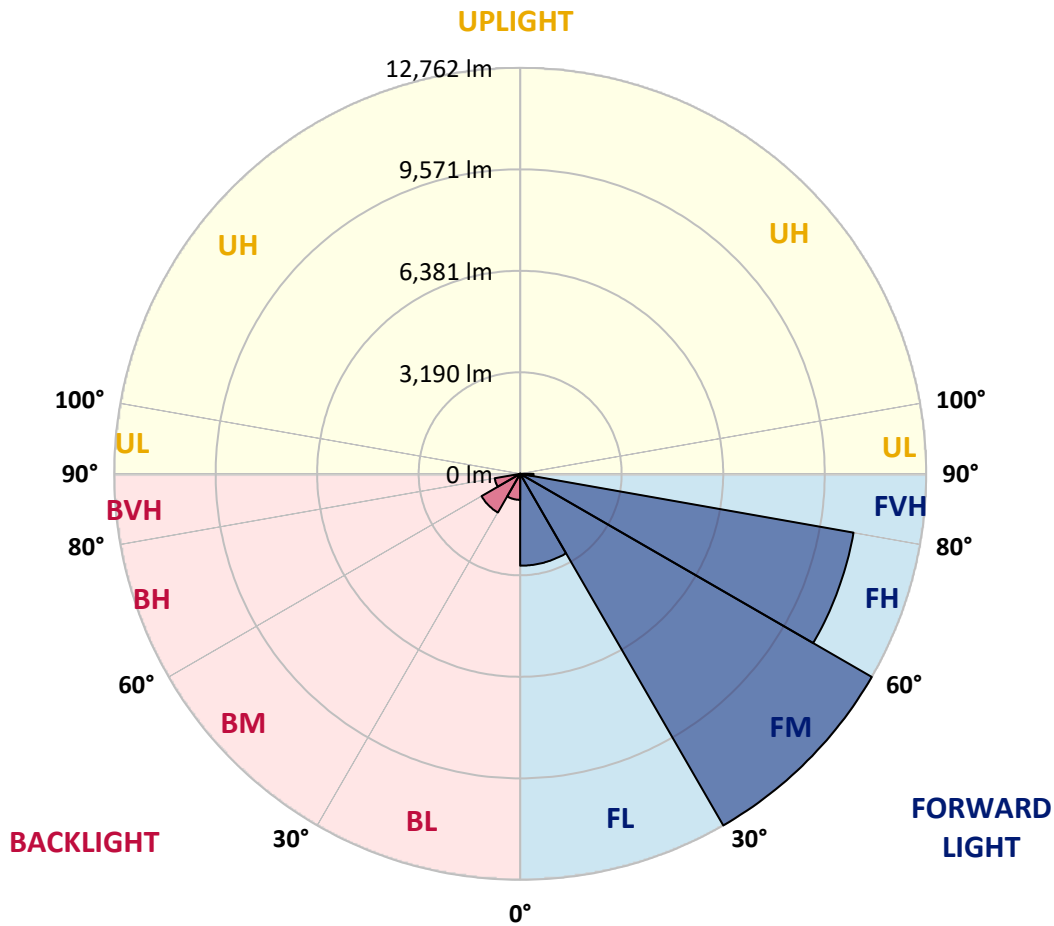
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2887.8  | 9.7       |                         |      |          |
| FM (30°-60°)   | 12761.7 | 42.9      |                         |      |          |
| FH (60°-80°)   | 10639.1 | 35.8      |                         |      | G4/12000 |
| FVH (80°-90°)  | 422.0   | 1.4       |                         |      | G3/500   |
| BL (0°-30°)    | 818.6   | 2.8       | B2/1000                 |      |          |
| BM (30°-60°)   | 1402.2  | 4.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 813.0   | 2.7       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 11.7    | 0.0       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5142.1  | 5142.1  | 5142.1  | 5142.1  | 5142.1  | 5142.1  | 5142.1  | 5142.1  | 5142.1  | 5142.1  |
| 2.5°  | 5977.9  | 5898.7  | 5914.2  | 5835.0  | 5798.4  | 5709.6  | 5616.9  | 5495.3  | 5360.2  | 5360.2  |
| 5°    | 6607.1  | 6556.9  | 6556.9  | 6464.3  | 6392.9  | 6253.9  | 6087.9  | 5873.6  | 5618.9  | 5593.8  |
| 7.5°  | 6993.2  | 6962.3  | 6981.6  | 6927.5  | 6869.6  | 6724.9  | 6528.0  | 6248.1  | 5887.2  | 5856.3  |
| 10°   | 7068.5  | 7066.5  | 7120.6  | 7136.0  | 7174.6  | 7101.3  | 6925.6  | 6603.3  | 6151.6  | 6107.2  |
| 12.5° | 6777.0  | 6740.3  | 6873.5  | 7029.8  | 7249.9  | 7348.3  | 7257.6  | 6927.5  | 6392.9  | 6331.1  |
| 15°   | 6298.3  | 6306.0  | 6433.4  | 6674.7  | 7041.4  | 7392.7  | 7510.5  | 7244.1  | 6638.0  | 6564.7  |
| 17.5° | 6024.2  | 5995.3  | 6105.3  | 6321.5  | 6726.8  | 7222.9  | 7628.2  | 7539.4  | 6898.6  | 6815.6  |
| 20°   | 5991.4  | 5989.5  | 6014.6  | 6113.0  | 6421.8  | 6979.7  | 7614.7  | 7827.0  | 7205.5  | 7109.0  |
| 22.5° | 6219.2  | 6215.3  | 6194.1  | 6174.8  | 6259.7  | 6742.2  | 7556.8  | 8101.1  | 7572.2  | 7468.0  |
| 25°   | 6568.5  | 6562.7  | 6529.9  | 6412.2  | 6329.2  | 6614.9  | 7502.7  | 8355.9  | 8006.5  | 7890.7  |
| 27.5° | 6995.1  | 6991.2  | 6931.4  | 6753.8  | 6539.6  | 6626.4  | 7475.7  | 8618.4  | 8508.4  | 8394.5  |
| 30°   | 7518.2  | 7510.5  | 7386.9  | 7136.0  | 6856.1  | 6809.8  | 7512.4  | 8913.7  | 9031.5  | 8944.6  |
| 32.5° | 8174.5  | 8153.2  | 7991.1  | 7612.8  | 7220.9  | 7054.9  | 7581.9  | 9216.8  | 9651.1  | 9570.0  |
| 35°   | 8682.1  | 8649.3  | 8554.7  | 8220.8  | 7643.7  | 7356.1  | 7744.0  | 9575.8  | 10396.1 | 10324.7 |
| 37.5° | 9118.3  | 9085.5  | 9008.3  | 8734.2  | 8249.7  | 7740.2  | 8004.6  | 10054.5 | 11276.3 | 11241.6 |
| 40°   | 9589.3  | 9535.3  | 9498.6  | 9205.2  | 8767.0  | 8294.1  | 8377.1  | 10614.3 | 12289.7 | 12293.5 |
| 42.5° | 9952.2  | 9931.0  | 9934.8  | 9709.0  | 9267.0  | 8950.4  | 8871.3  | 11245.4 | 13503.8 | 13540.5 |
| 45°   | 10263.0 | 10245.6 | 10317.0 | 10158.7 | 9770.8  | 9380.9  | 9450.3  | 11959.6 | 14831.8 | 14907.1 |
| 47.5° | 10502.3 | 10521.6 | 10623.9 | 10521.6 | 10293.8 | 9683.9  | 9963.8  | 12729.8 | 16227.3 | 16237.0 |
| 50°   | 10741.7 | 10749.4 | 10919.2 | 10869.0 | 10776.4 | 10068.0 | 10436.7 | 13590.7 | 17698.2 | 17715.5 |
| 52.5° | 10816.9 | 10805.3 | 11075.6 | 11199.1 | 11203.0 | 10542.8 | 11048.6 | 14528.7 | 19140.0 | 19196.0 |
| 55°   | 10430.9 | 10463.7 | 10899.9 | 11401.8 | 11600.6 | 11199.1 | 11874.7 | 15715.8 | 20676.5 | 20699.6 |
| 57.5° | 8543.1  | 8724.6  | 9689.7  | 10853.6 | 11857.3 | 12139.1 | 13061.8 | 17103.6 | 22450.3 | 22429.1 |
| 60°   | 5184.6  | 5400.7  | 6555.0  | 9102.9  | 11019.6 | 13083.0 | 14810.5 | 19253.9 | 24388.3 | 24328.4 |
| 62.5° | 2899.2  | 2964.8  | 3333.5  | 5449.0  | 8381.0  | 12482.7 | 16518.8 | 22016.0 | 26990.2 | 26787.5 |
| 65°   | 2136.7  | 2158.0  | 2244.8  | 2669.5  | 4119.1  | 9600.9  | 16144.3 | 25318.6 | 30646.0 | 30285.1 |
| 67.5° | 1856.9  | 1878.1  | 1963.0  | 2020.9  | 1839.5  | 5043.7  | 13301.1 | 27150.4 | 35288.2 | 34815.3 |
| 70°   | 1563.5  | 1575.1  | 1712.1  | 1750.7  | 1316.4  | 1918.6  | 8545.1  | 26584.9 | 39584.9 | 39247.1 |
| 72.5° | 1165.9  | 1212.2  | 1411.0  | 1503.6  | 1055.8  | 1019.2  | 4022.6  | 23243.7 | 40312.6 | 40316.4 |
| 75°   | 791.4   | 833.9   | 1061.6  | 1237.3  | 814.6   | 714.2   | 1623.3  | 17356.5 | 35102.9 | 35102.9 |
| 77.5° | 540.5   | 575.2   | 739.3   | 970.9   | 617.7   | 490.3   | 841.6   | 11015.7 | 25183.5 | 26069.5 |
| 80°   | 239.3   | 260.6   | 476.8   | 704.5   | 469.0   | 316.6   | 476.8   | 6031.9  | 15229.4 | 15042.2 |
| 82.5° | 117.7   | 135.1   | 305.0   | 440.1   | 303.0   | 195.0   | 250.9   | 2868.3  | 4935.6  | 4690.4  |
| 85°   | 23.2    | 30.9    | 164.1   | 187.2   | 140.9   | 86.9    | 94.6    | 882.1   | 594.5   | 679.4   |
| 87.5° | 0.0     | 0.0     | 50.2    | 34.7    | 15.4    | 19.3    | 19.3    | 79.1    | 46.3    | 54.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5142.1  | 0°    | 5142.1  | 5142.1 | 5142.1 | 5142.1 | 5142.1 | 5142.1 | 5142.1 | 5142.1 | 5142.1 | 5142.1 |
| 5229.0  | 2.5°  | 5159.5  | 5088.0 | 4931.7 | 4777.3 | 4619.0 | 4474.2 | 4373.9 | 4273.5 | 4211.7 | 4184.7 |
| 5344.8  | 5°    | 5200.0  | 5055.2 | 4727.1 | 4383.5 | 4043.8 | 3711.8 | 3462.8 | 3229.3 | 3155.9 | 3034.3 |
| 5481.8  | 7.5°  | 5263.7  | 5028.2 | 4510.9 | 3931.9 | 3379.8 | 2893.4 | 2542.1 | 2262.2 | 2150.3 | 2042.2 |
| 5599.6  | 10°   | 5306.2  | 4978.0 | 4225.2 | 3451.2 | 2704.2 | 2158.0 | 1822.1 | 1619.5 | 1546.1 | 1480.5 |
| 5709.6  | 12.5° | 5323.5  | 4885.4 | 3897.1 | 2912.7 | 2103.9 | 1644.5 | 1443.8 | 1349.2 | 1324.1 | 1301.0 |
| 5813.8  | 15°   | 5339.0  | 4794.7 | 3530.4 | 2393.5 | 1661.9 | 1376.2 | 1297.1 | 1266.2 | 1248.8 | 1233.4 |
| 5920.0  | 17.5° | 5352.5  | 4678.8 | 3111.5 | 1945.7 | 1403.3 | 1268.2 | 1229.5 | 1196.7 | 1183.2 | 1165.9 |
| 6072.5  | 20°   | 5398.8  | 4566.9 | 2737.0 | 1605.9 | 1262.4 | 1190.9 | 1148.5 | 1113.7 | 1102.2 | 1090.6 |
| 6288.6  | 22.5° | 5485.7  | 4476.2 | 2374.2 | 1376.2 | 1177.4 | 1111.8 | 1057.8 | 1019.2 | 1011.4 | 1003.7 |
| 6551.2  | 25°   | 5589.9  | 4364.2 | 2032.5 | 1227.6 | 1094.4 | 1021.1 | 961.2  | 928.4  | 920.7  | 922.6  |
| 6854.2  | 27.5° | 5723.1  | 4240.7 | 1739.1 | 1133.0 | 1021.1 | 936.2  | 868.6  | 843.5  | 847.4  | 855.1  |
| 7203.6  | 30°   | 5869.8  | 4126.8 | 1509.4 | 1067.4 | 955.5  | 860.9  | 793.3  | 775.9  | 789.5  | 801.0  |
| 7670.7  | 32.5° | 6087.9  | 4026.4 | 1349.2 | 1015.3 | 897.6  | 799.1  | 745.1  | 723.8  | 739.3  | 754.7  |
| 8267.1  | 35°   | 6385.2  | 3976.2 | 1258.5 | 970.9  | 847.4  | 750.9  | 696.8  | 681.4  | 696.8  | 700.7  |
| 8994.8  | 37.5° | 6750.0  | 3972.4 | 1219.9 | 934.2  | 801.0  | 710.3  | 650.5  | 644.7  | 656.3  | 658.2  |
| 9869.2  | 40°   | 7220.9  | 3997.5 | 1190.9 | 907.2  | 752.8  | 664.0  | 608.0  | 602.2  | 606.1  | 619.6  |
| 10921.2 | 42.5° | 7817.4  | 4101.7 | 1150.4 | 872.5  | 700.7  | 617.7  | 573.3  | 559.8  | 557.8  | 573.3  |
| 12098.6 | 45°   | 8566.3  | 4331.4 | 1096.4 | 816.5  | 654.3  | 579.1  | 534.7  | 519.2  | 513.4  | 517.3  |
| 13314.6 | 47.5° | 9382.8  | 4613.2 | 1042.3 | 764.4  | 621.5  | 548.2  | 503.8  | 484.5  | 474.8  | 474.8  |
| 14451.5 | 50°   | 10174.2 | 4931.7 | 1005.6 | 710.3  | 598.4  | 519.2  | 471.0  | 451.7  | 436.2  | 432.4  |
| 15621.2 | 52.5° | 10957.8 | 5244.4 | 976.7  | 656.3  | 571.3  | 482.6  | 440.1  | 418.9  | 401.5  | 393.8  |
| 16779.4 | 55°   | 11672.0 | 5541.7 | 926.5  | 604.2  | 536.6  | 443.9  | 409.2  | 388.0  | 366.7  | 353.2  |
| 17952.9 | 57.5° | 12357.2 | 5788.7 | 833.9  | 550.1  | 482.6  | 407.3  | 376.4  | 353.2  | 328.1  | 310.8  |
| 19140.0 | 60°   | 12980.7 | 5916.1 | 718.0  | 492.2  | 428.5  | 368.7  | 339.7  | 318.5  | 285.7  | 256.7  |
| 20307.8 | 62.5° | 13455.5 | 5865.9 | 592.6  | 426.6  | 372.5  | 333.9  | 297.3  | 276.0  | 237.4  | 202.7  |
| 21707.2 | 65°   | 13942.0 | 5591.8 | 472.9  | 357.1  | 326.2  | 287.6  | 249.0  | 227.8  | 183.4  | 146.7  |
| 23600.8 | 67.5° | 14573.1 | 5007.0 | 372.5  | 297.3  | 281.8  | 227.8  | 195.0  | 181.4  | 150.6  | 115.8  |
| 25633.3 | 70°   | 14978.5 | 3889.4 | 289.5  | 241.3  | 231.6  | 166.0  | 150.6  | 148.6  | 119.7  | 88.8   |
| 25496.2 | 72.5° | 13866.7 | 2549.8 | 222.0  | 183.4  | 166.0  | 108.1  | 115.8  | 115.8  | 86.9   | 59.8   |
| 22350.0 | 75°   | 11575.5 | 1492.1 | 160.2  | 131.3  | 94.6   | 69.5   | 79.1   | 79.1   | 54.0   | 29.0   |
| 15930.1 | 77.5° | 8267.1  | 795.2  | 106.2  | 81.1   | 48.3   | 30.9   | 42.5   | 40.5   | 17.4   | 1.9    |
| 6244.2  | 80°   | 3161.7  | 274.1  | 50.2   | 32.8   | 13.5   | 5.8    | 3.9    | 1.9    | 1.9    | 0.0    |
| 974.8   | 82.5° | 482.6   | 71.4   | 9.7    | 7.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 206.5   | 85°   | 86.9    | 9.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 54.0    | 87.5° | 19.3    | 0.0    | 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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| <u>180°</u> |
|-------------|
| 5142.1      |
| 4188.6      |
| 3042.0      |
| 2040.2      |
| 1478.5      |
| 1301.0      |
| 1233.4      |
| 1165.9      |
| 1092.5      |
| 997.9       |
| 918.8       |
| 851.2       |
| 797.2       |
| 750.9       |
| 698.7       |
| 654.3       |
| 617.7       |
| 571.3       |
| 523.1       |
| 474.8       |
| 430.4       |
| 389.9       |
| 347.4       |
| 303.0       |
| 249.0       |
| 189.2       |
| 137.0       |
| 108.1       |
| 79.1        |
| 52.1        |
| 23.2        |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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