

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: P952122

Luminaire Tested: **GALN-SB6A-827-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952122  
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-SB6A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

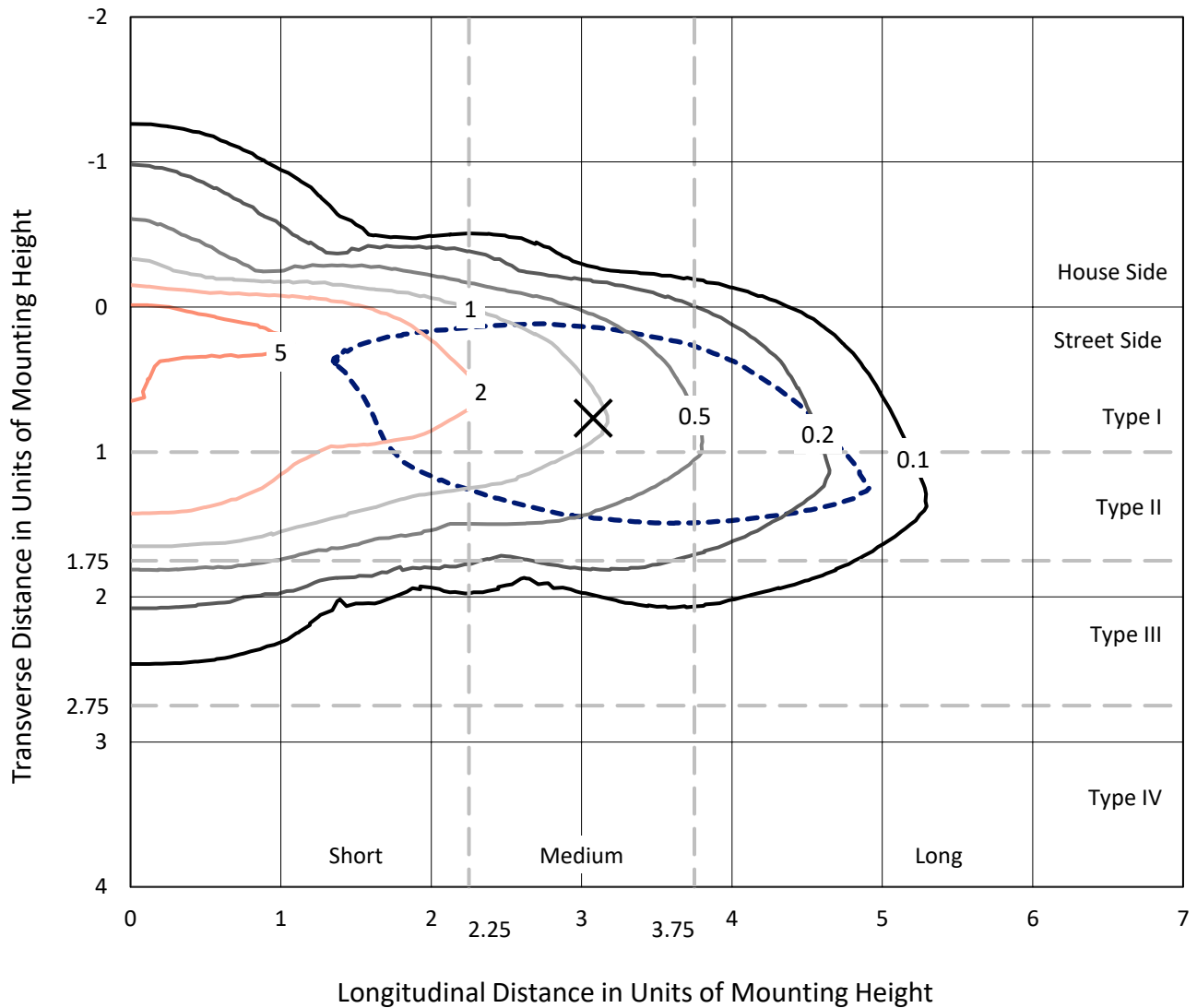
Lumens per Lamp: N/A  
Luminaire Lumens: 19172 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

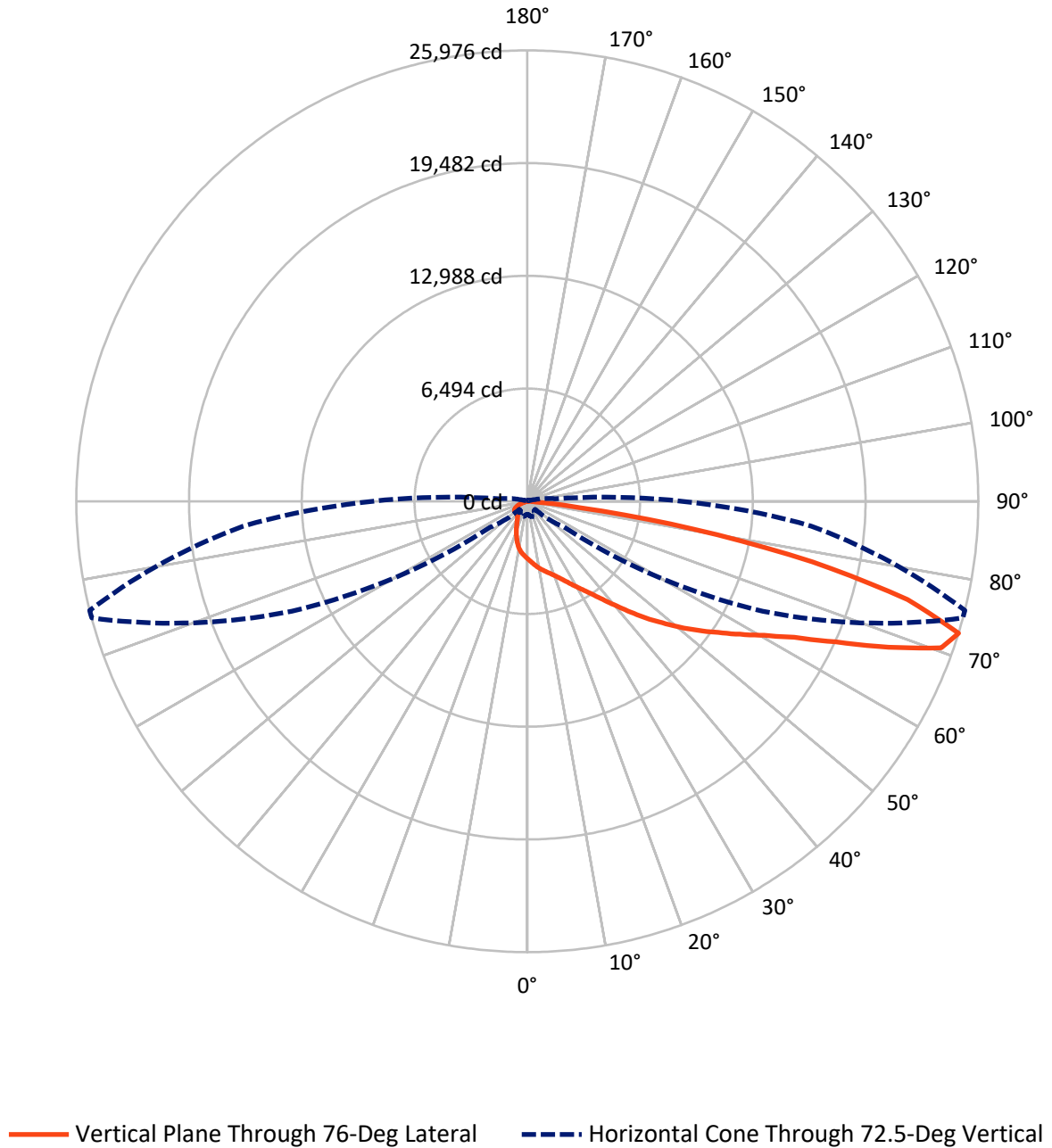
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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    | 1962.3   | 0.0    | 1962.3  |
|                    | % Fixture | 10.2     | 0.0    | 10.2    |
| <b>Street Side</b> | Lumens    | 17209.7  | 0.0    | 17209.7 |
|                    | % Fixture | 89.8     | 0.0    | 89.8    |
| <b>Total</b>       | Lumens    | 19172.0  | 0.0    | 19172.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 301.3   | 1.6       |
| 10°-20°   | 807.9   | 4.2       |
| 20°-30°   | 1278.8  | 6.7       |
| 30°-40°   | 1978.4  | 10.3      |
| 40°-50°   | 3004.9  | 15.7      |
| 50°-60°   | 4142.6  | 21.6      |
| 60°-70°   | 4376.4  | 22.8      |
| 70°-80°   | 3002.3  | 15.7      |
| 80°-90°   | 279.4   | 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°    | 19172.0 | 100.0     |
| 0°-180°   | 19172.0 | 100.0     |

**Coefficient of Utilization**



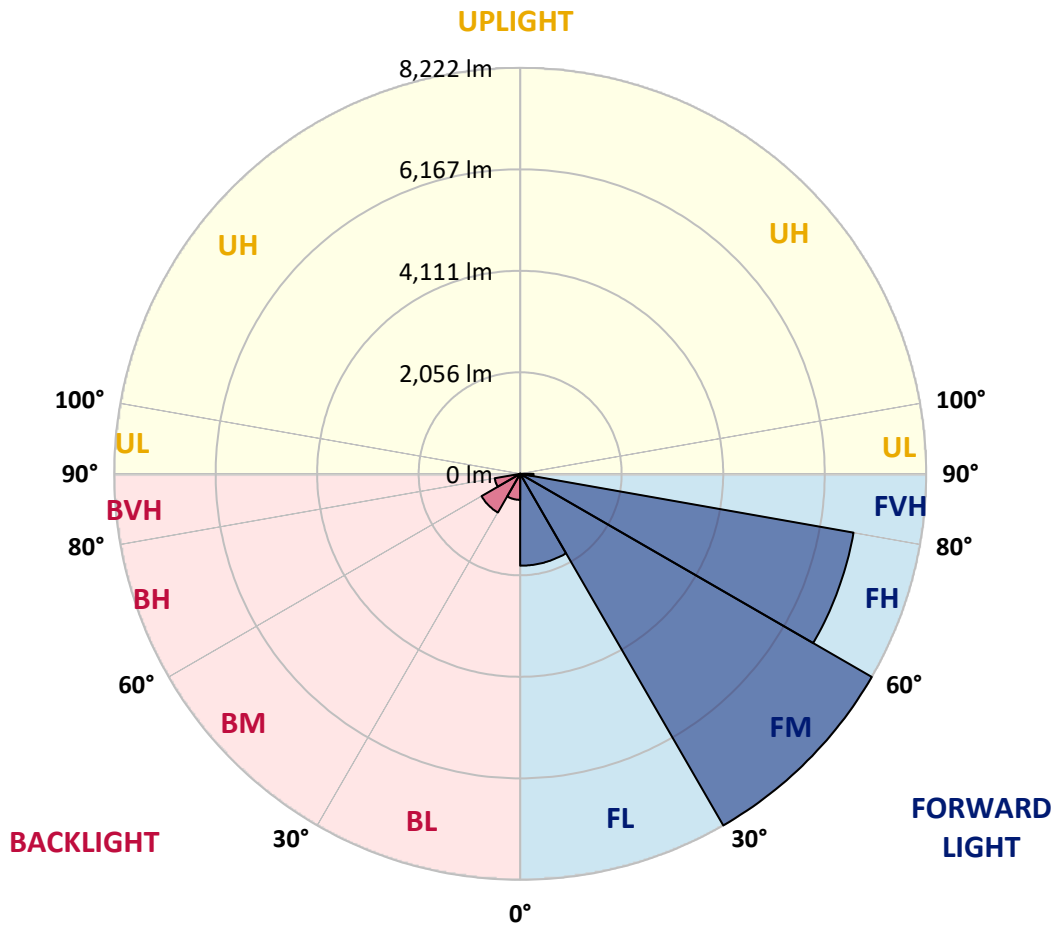
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1860.6 | 9.7       |                         |      |         |
| FM (30°-60°)   | 8222.4 | 42.9      |                         |      |         |
| FH (60°-80°)   | 6854.8 | 35.8      |                         |      | G3/7500 |
| FVH (80°-90°)  | 271.9  | 1.4       |                         |      | G3/500  |
| BL (0°-30°)    | 527.4  | 2.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 903.4  | 4.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 523.8  | 2.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 7.6    | 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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 76°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1  | 3313.1  | 3313.1  | 3313.1  |
| 2.5°  | 3851.6 | 3800.6 | 3810.5 | 3759.6 | 3735.9 | 3678.7 | 3619.0  | 3540.7  | 3453.6  | 3453.6  |
| 5°    | 4257.0 | 4224.7 | 4224.7 | 4165.0 | 4119.0 | 4029.4 | 3922.5  | 3784.4  | 3620.3  | 3604.1  |
| 7.5°  | 4505.8 | 4485.9 | 4498.3 | 4463.5 | 4426.2 | 4332.9 | 4206.0  | 4025.7  | 3793.1  | 3773.2  |
| 10°   | 4554.3 | 4553.0 | 4587.8 | 4597.8 | 4622.7 | 4575.4 | 4462.2  | 4254.5  | 3963.5  | 3934.9  |
| 12.5° | 4366.5 | 4342.8 | 4428.6 | 4529.4 | 4671.2 | 4734.6 | 4676.1  | 4463.5  | 4119.0  | 4079.2  |
| 15°   | 4058.0 | 4063.0 | 4145.1 | 4300.5 | 4536.8 | 4763.2 | 4839.0  | 4667.4  | 4276.9  | 4229.7  |
| 17.5° | 3881.4 | 3862.8 | 3933.7 | 4073.0 | 4334.1 | 4653.7 | 4914.9  | 4857.7  | 4444.8  | 4391.3  |
| 20°   | 3860.3 | 3859.1 | 3875.2 | 3938.6 | 4137.6 | 4497.0 | 4906.2  | 5043.0  | 4642.6  | 4580.4  |
| 22.5° | 4007.0 | 4004.6 | 3990.9 | 3978.4 | 4033.2 | 4344.1 | 4868.9  | 5219.6  | 4878.8  | 4811.7  |
| 25°   | 4232.1 | 4228.4 | 4207.3 | 4131.4 | 4077.9 | 4262.0 | 4834.1  | 5383.8  | 5158.7  | 5084.0  |
| 27.5° | 4507.0 | 4504.5 | 4466.0 | 4351.5 | 4213.5 | 4269.5 | 4816.7  | 5552.9  | 5482.0  | 5408.6  |
| 30°   | 4844.0 | 4839.0 | 4759.5 | 4597.8 | 4417.5 | 4387.6 | 4840.3  | 5743.2  | 5819.0  | 5763.1  |
| 32.5° | 5266.9 | 5253.2 | 5148.7 | 4905.0 | 4652.5 | 4545.5 | 4885.1  | 5938.4  | 6218.3  | 6166.0  |
| 35°   | 5593.9 | 5572.8 | 5511.9 | 5296.7 | 4924.9 | 4739.6 | 4989.5  | 6169.8  | 6698.3  | 6652.3  |
| 37.5° | 5875.0 | 5853.9 | 5804.1 | 5627.5 | 5315.4 | 4987.0 | 5157.4  | 6478.2  | 7265.4  | 7243.0  |
| 40°   | 6178.5 | 6143.6 | 6120.0 | 5931.0 | 5648.7 | 5344.0 | 5397.4  | 6838.8  | 7918.3  | 7920.8  |
| 42.5° | 6412.3 | 6398.6 | 6401.1 | 6255.6 | 5970.8 | 5766.8 | 5715.8  | 7245.5  | 8700.6  | 8724.2  |
| 45°   | 6612.5 | 6601.3 | 6647.3 | 6545.3 | 6295.4 | 6044.1 | 6088.9  | 7705.7  | 9556.2  | 9604.7  |
| 47.5° | 6766.7 | 6779.1 | 6845.1 | 6779.1 | 6632.4 | 6239.4 | 6419.7  | 8201.9  | 10455.4 | 10461.6 |
| 50°   | 6920.9 | 6925.9 | 7035.3 | 7003.0 | 6943.3 | 6486.9 | 6724.4  | 8756.6  | 11403.0 | 11414.2 |
| 52.5° | 6969.4 | 6962.0 | 7136.1 | 7215.7 | 7218.2 | 6792.8 | 7118.7  | 9361.0  | 12332.1 | 12368.1 |
| 55°   | 6720.7 | 6741.8 | 7022.9 | 7346.3 | 7474.3 | 7215.7 | 7650.9  | 10125.8 | 13322.0 | 13336.9 |
| 57.5° | 5504.4 | 5621.3 | 6243.1 | 6993.1 | 7639.8 | 7821.3 | 8415.8  | 11020.0 | 14464.9 | 14451.2 |
| 60°   | 3340.4 | 3479.7 | 4223.4 | 5865.1 | 7100.0 | 8429.5 | 9542.5  | 12405.4 | 15713.5 | 15675.0 |
| 62.5° | 1868.0 | 1910.2 | 2147.8 | 3510.8 | 5399.9 | 8042.7 | 10643.2 | 14185.1 | 17390.0 | 17259.4 |
| 65°   | 1376.7 | 1390.4 | 1446.4 | 1720.0 | 2654.0 | 6185.9 | 10401.9 | 16313.0 | 19745.5 | 19512.9 |
| 67.5° | 1196.4 | 1210.1 | 1264.8 | 1302.1 | 1185.2 | 3249.7 | 8570.0  | 17493.2 | 22736.4 | 22431.7 |
| 70°   | 1007.4 | 1014.8 | 1103.1 | 1128.0 | 848.2  | 1236.2 | 5505.6  | 17128.8 | 25504.8 | 25287.2 |
| 72.5° | 751.2  | 781.0  | 909.1  | 968.8  | 680.3  | 656.6  | 2591.8  | 14976.1 | 25973.7 | 25976.2 |
| 75°   | 509.9  | 537.3  | 684.0  | 797.2  | 524.8  | 460.2  | 1045.9  | 11182.9 | 22617.1 | 22617.1 |
| 77.5° | 348.2  | 370.6  | 476.3  | 625.6  | 398.0  | 315.9  | 542.2   | 7097.5  | 16225.9 | 16796.8 |
| 80°   | 154.2  | 167.9  | 307.2  | 453.9  | 302.2  | 204.0  | 307.2   | 3886.4  | 9812.4  | 9691.8  |
| 82.5° | 75.9   | 87.1   | 196.5  | 283.6  | 195.3  | 125.6  | 161.7   | 1848.1  | 3180.0  | 3022.1  |
| 85°   | 14.9   | 19.9   | 105.7  | 120.6  | 90.8   | 56.0   | 60.9    | 568.3   | 383.0   | 437.8   |
| 87.5° | 0.0    | 0.0    | 32.3   | 22.4   | 9.9    | 12.4   | 12.4    | 51.0    | 29.8    | 34.8    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3313.1  | 0°    | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 | 3313.1 |
| 3369.1  | 2.5°  | 3324.3 | 3278.3 | 3177.5 | 3078.0 | 2976.1 | 2882.8 | 2818.1 | 2753.4 | 2713.6 | 2696.2 |
| 3443.7  | 5°    | 3350.4 | 3257.1 | 3045.7 | 2824.3 | 2605.5 | 2391.5 | 2231.1 | 2080.6 | 2033.4 | 1955.0 |
| 3532.0  | 7.5°  | 3391.4 | 3239.7 | 2906.4 | 2533.3 | 2177.6 | 1864.2 | 1637.9 | 1457.6 | 1385.4 | 1315.8 |
| 3607.8  | 10°   | 3418.8 | 3207.4 | 2722.4 | 2223.6 | 1742.4 | 1390.4 | 1174.0 | 1043.4 | 996.2  | 953.9  |
| 3678.7  | 12.5° | 3430.0 | 3147.7 | 2510.9 | 1876.7 | 1355.6 | 1059.6 | 930.3  | 869.3  | 853.1  | 838.2  |
| 3745.9  | 15°   | 3439.9 | 3089.2 | 2274.6 | 1542.1 | 1070.8 | 886.7  | 835.7  | 815.8  | 804.6  | 794.7  |
| 3814.3  | 17.5° | 3448.6 | 3014.6 | 2004.8 | 1253.6 | 904.1  | 817.1  | 792.2  | 771.1  | 762.4  | 751.2  |
| 3912.5  | 20°   | 3478.5 | 2942.5 | 1763.5 | 1034.7 | 813.3  | 767.3  | 740.0  | 717.6  | 710.1  | 702.7  |
| 4051.8  | 22.5° | 3534.5 | 2884.0 | 1529.7 | 886.7  | 758.6  | 716.3  | 681.5  | 656.6  | 651.7  | 646.7  |
| 4221.0  | 25°   | 3601.6 | 2811.9 | 1309.6 | 791.0  | 705.2  | 657.9  | 619.3  | 598.2  | 593.2  | 594.5  |
| 4416.2  | 27.5° | 3687.4 | 2732.3 | 1120.5 | 730.0  | 657.9  | 603.2  | 559.6  | 543.5  | 546.0  | 550.9  |
| 4641.3  | 30°   | 3781.9 | 2658.9 | 972.5  | 687.7  | 615.6  | 554.7  | 511.1  | 499.9  | 508.7  | 516.1  |
| 4942.3  | 32.5° | 3922.5 | 2594.3 | 869.3  | 654.2  | 578.3  | 514.9  | 480.0  | 466.4  | 476.3  | 486.3  |
| 5326.6  | 35°   | 4114.0 | 2561.9 | 810.9  | 625.6  | 546.0  | 483.8  | 449.0  | 439.0  | 449.0  | 451.4  |
| 5795.4  | 37.5° | 4349.1 | 2559.4 | 786.0  | 601.9  | 516.1  | 457.7  | 419.1  | 415.4  | 422.8  | 424.1  |
| 6358.8  | 40°   | 4652.5 | 2575.6 | 767.3  | 584.5  | 485.0  | 427.8  | 391.8  | 388.0  | 390.5  | 399.2  |
| 7036.6  | 42.5° | 5036.8 | 2642.8 | 741.2  | 562.1  | 451.4  | 398.0  | 369.4  | 360.7  | 359.4  | 369.4  |
| 7795.2  | 45°   | 5519.3 | 2790.8 | 706.4  | 526.1  | 421.6  | 373.1  | 344.5  | 334.5  | 330.8  | 333.3  |
| 8578.7  | 47.5° | 6045.4 | 2972.3 | 671.6  | 492.5  | 400.5  | 353.2  | 324.6  | 312.2  | 305.9  | 305.9  |
| 9311.2  | 50°   | 6555.3 | 3177.5 | 647.9  | 457.7  | 385.5  | 334.5  | 303.5  | 291.0  | 281.1  | 278.6  |
| 10064.9 | 52.5° | 7060.2 | 3379.0 | 629.3  | 422.8  | 368.1  | 310.9  | 283.6  | 269.9  | 258.7  | 253.7  |
| 10811.1 | 55°   | 7520.4 | 3570.5 | 597.0  | 389.3  | 345.7  | 286.0  | 263.7  | 250.0  | 236.3  | 227.6  |
| 11567.2 | 57.5° | 7961.9 | 3729.7 | 537.3  | 354.4  | 310.9  | 262.4  | 242.5  | 227.6  | 211.4  | 200.2  |
| 12332.1 | 60°   | 8363.6 | 3811.8 | 462.6  | 317.1  | 276.1  | 237.5  | 218.9  | 205.2  | 184.1  | 165.4  |
| 13084.5 | 62.5° | 8669.5 | 3779.5 | 381.8  | 274.8  | 240.0  | 215.2  | 191.5  | 177.8  | 153.0  | 130.6  |
| 13986.1 | 65°   | 8982.9 | 3602.9 | 304.7  | 230.1  | 210.2  | 185.3  | 160.4  | 146.8  | 118.1  | 94.5   |
| 15206.1 | 67.5° | 9389.6 | 3226.0 | 240.0  | 191.5  | 181.6  | 146.8  | 125.6  | 116.9  | 97.0   | 74.6   |
| 16515.7 | 70°   | 9650.7 | 2506.0 | 186.5  | 155.5  | 149.2  | 107.0  | 97.0   | 95.8   | 77.1   | 57.2   |
| 16427.4 | 72.5° | 8934.4 | 1642.9 | 143.0  | 118.1  | 107.0  | 69.6   | 74.6   | 74.6   | 56.0   | 38.6   |
| 14400.2 | 75°   | 7458.2 | 961.3  | 103.2  | 84.6   | 60.9   | 44.8   | 51.0   | 51.0   | 34.8   | 18.7   |
| 10263.9 | 77.5° | 5326.6 | 512.4  | 68.4   | 52.2   | 31.1   | 19.9   | 27.4   | 26.1   | 11.2   | 1.2    |
| 4023.2  | 80°   | 2037.1 | 176.6  | 32.3   | 21.1   | 8.7    | 3.7    | 2.5    | 1.2    | 1.2    | 0.0    |
| 628.0   | 82.5° | 310.9  | 46.0   | 6.2    | 5.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 133.1   | 85°   | 56.0   | 6.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 34.8    | 87.5° | 12.4   | 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> |
|-------------|
| 3313.1      |
| 2698.7      |
| 1960.0      |
| 1314.5      |
| 952.6       |
| 838.2       |
| 794.7       |
| 751.2       |
| 703.9       |
| 643.0       |
| 592.0       |
| 548.5       |
| 513.6       |
| 483.8       |
| 450.2       |
| 421.6       |
| 398.0       |
| 368.1       |
| 337.0       |
| 305.9       |
| 277.3       |
| 251.2       |
| 223.9       |
| 195.3       |
| 160.4       |
| 121.9       |
| 88.3        |
| 69.6        |
| 51.0        |
| 33.6        |
| 14.9        |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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