

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: P950072

Luminaire Tested: **GALN-SB4C-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

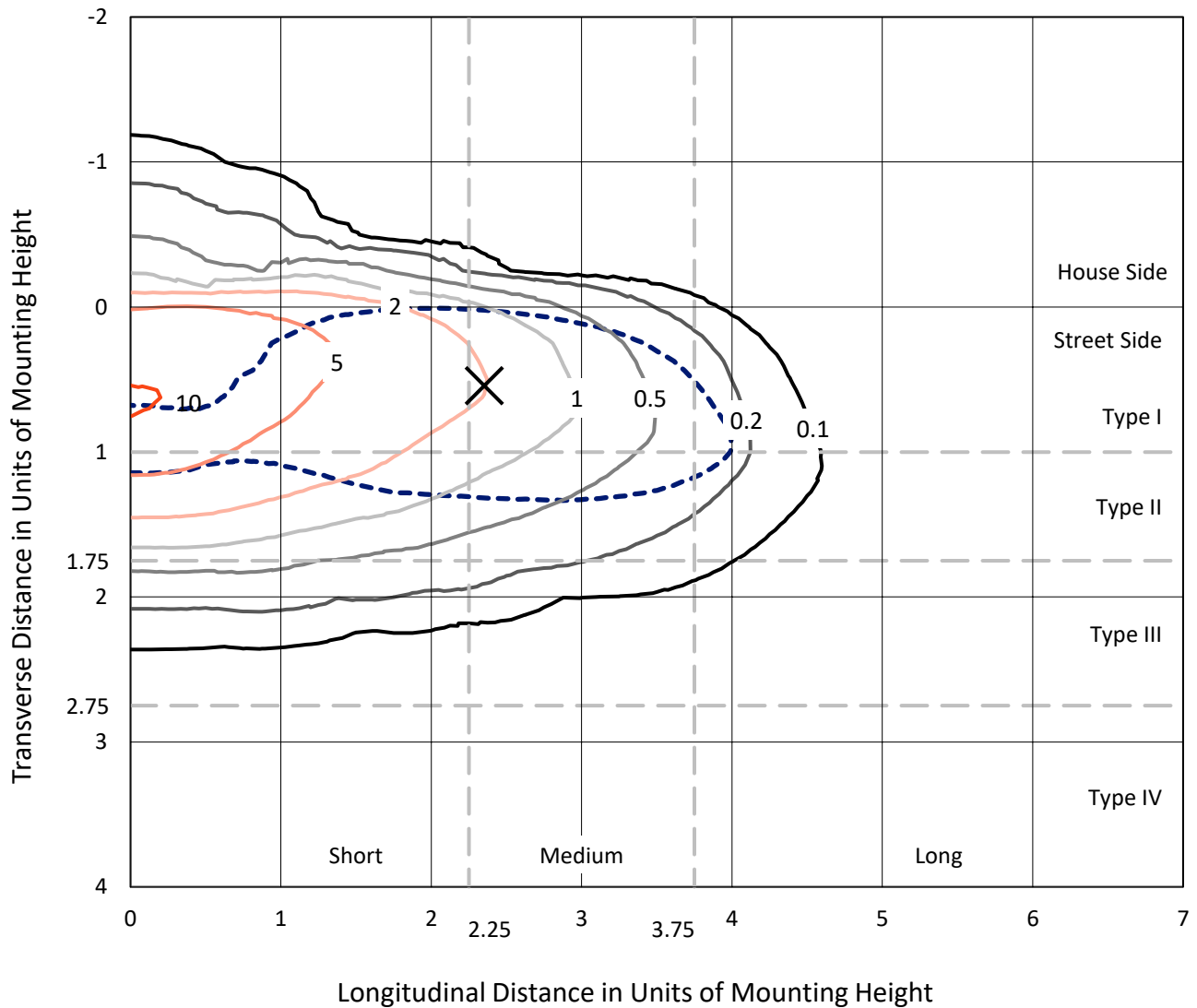
Lumens per Lamp: N/A  
Luminaire Lumens: 24308 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

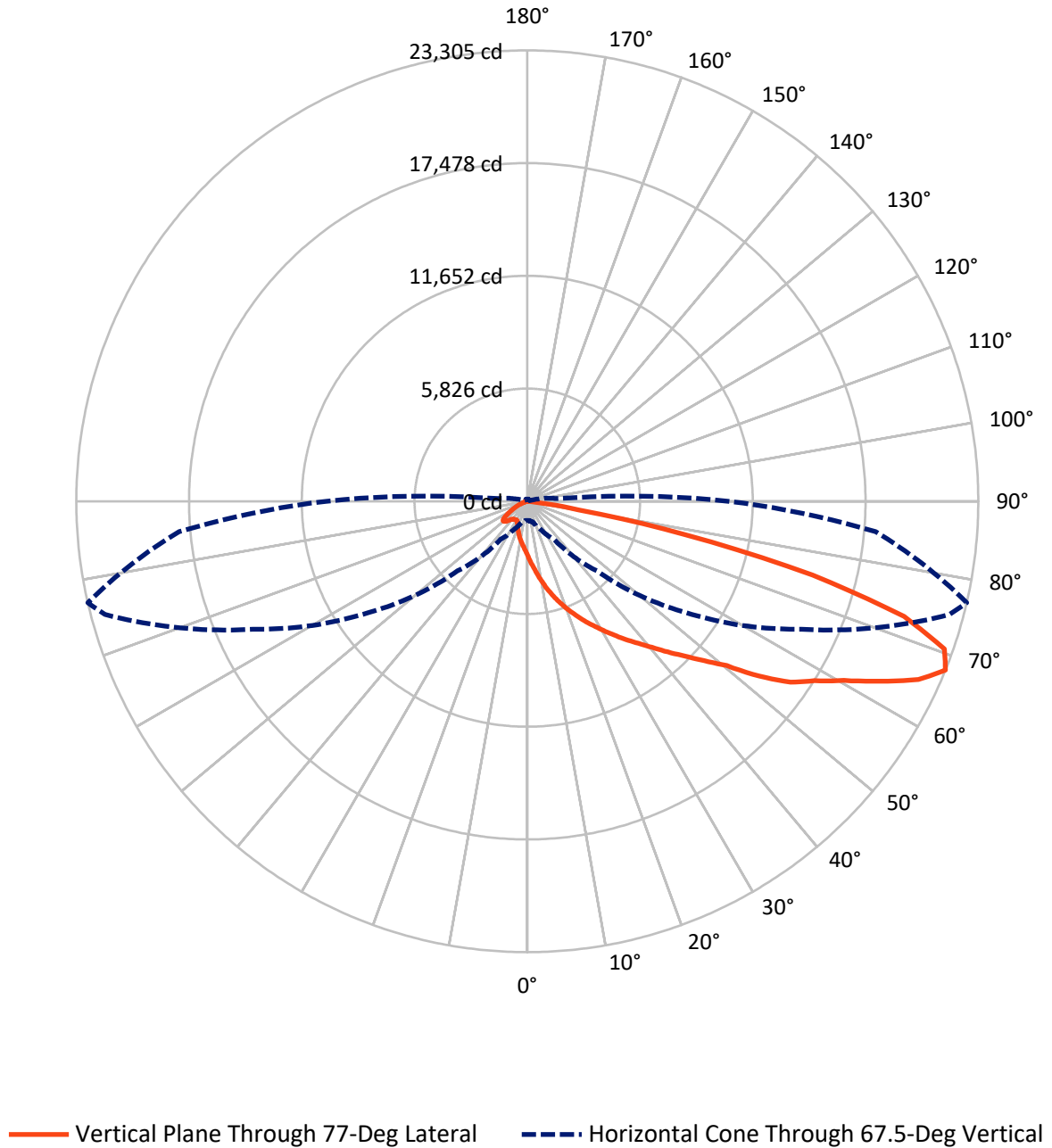
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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    | 1788.4   | 0.0    | 1788.4  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 22519.7  | 0.0    | 22519.7 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 24308.0  | 0.0    | 24308.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 286.1   | 1.2       |
| 10°-20°   | 1001.9  | 4.1       |
| 20°-30°   | 1933.4  | 8.0       |
| 30°-40°   | 3356.4  | 13.8      |
| 40°-50°   | 4873.4  | 20.0      |
| 50°-60°   | 5596.4  | 23.0      |
| 60°-70°   | 4858.7  | 20.0      |
| 70°-80°   | 2288.5  | 9.4       |
| 80°-90°   | 113.2   | 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°    | 24308.0 | 100.0     |
| 0°-180°   | 24308.0 | 100.0     |

**Coefficient of Utilization**



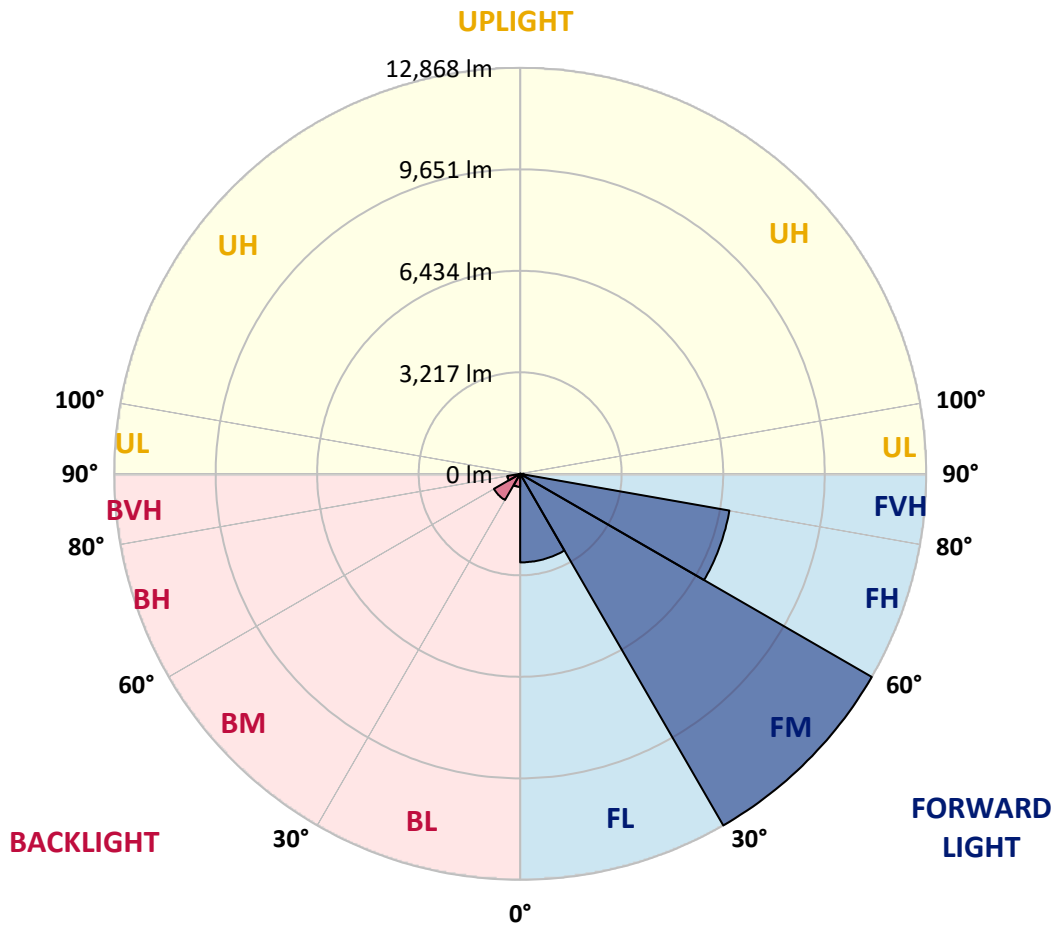
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2807.3  | 11.5      |                         |      |         |
| FM (30°-60°)   | 12868.0 | 52.9      |                         |      |         |
| FH (60°-80°)   | 6733.2  | 27.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 111.1   | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 414.0   | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 958.2   | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 414.0   | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.1     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2803.1  | 2803.1  | 2803.1  | 2803.1  | 2803.1  | 2803.1  | 2803.1  | 2803.1  | 2803.1  | 2803.1  |
| 2.5°  | 3880.8  | 3905.0  | 3870.3  | 3803.8  | 3704.2  | 3639.3  | 3480.8  | 3331.4  | 3165.3  | 3112.5  |
| 5°    | 4730.7  | 4751.8  | 4712.5  | 4640.1  | 4507.3  | 4380.5  | 4172.2  | 3859.7  | 3535.2  | 3431.0  |
| 7.5°  | 5360.1  | 5372.2  | 5357.1  | 5290.7  | 5163.9  | 5020.5  | 4788.0  | 4418.2  | 3936.7  | 3822.0  |
| 10°   | 5812.9  | 5852.2  | 5847.7  | 5822.0  | 5737.5  | 5621.2  | 5373.7  | 4952.5  | 4386.5  | 4238.6  |
| 12.5° | 6113.3  | 6157.1  | 6182.8  | 6240.1  | 6235.6  | 6161.6  | 5944.3  | 5499.0  | 4834.8  | 4661.2  |
| 15°   | 6200.9  | 6247.7  | 6345.8  | 6478.6  | 6596.3  | 6634.1  | 6481.6  | 6034.8  | 5328.4  | 5106.5  |
| 17.5° | 6151.1  | 6223.5  | 6341.2  | 6551.1  | 6809.2  | 6979.7  | 6963.1  | 6552.6  | 5776.7  | 5523.1  |
| 20°   | 6261.2  | 6330.7  | 6422.8  | 6599.4  | 6899.7  | 7209.2  | 7333.0  | 7047.7  | 6222.0  | 5956.3  |
| 22.5° | 6871.1  | 6859.0  | 6868.0  | 6896.7  | 7076.4  | 7382.8  | 7637.9  | 7497.5  | 6662.8  | 6391.1  |
| 25°   | 7837.1  | 7782.8  | 7690.7  | 7535.2  | 7489.9  | 7637.9  | 7903.5  | 7896.0  | 7127.7  | 6836.4  |
| 27.5° | 8945.1  | 8936.0  | 8720.2  | 8345.8  | 8134.5  | 8077.1  | 8203.9  | 8283.9  | 7588.1  | 7277.1  |
| 30°   | 10006.2 | 10030.4 | 9739.0  | 9322.4  | 8934.5  | 8709.6  | 8594.9  | 8652.2  | 8056.0  | 7752.6  |
| 32.5° | 10930.0 | 10955.7 | 10638.7 | 10151.1 | 9671.1  | 9399.4  | 9157.9  | 9016.0  | 8566.2  | 8235.6  |
| 35°   | 11710.4 | 11736.1 | 11372.3 | 10833.4 | 10321.7 | 10075.7 | 9802.4  | 9414.5  | 9079.4  | 8771.5  |
| 37.5° | 12407.8 | 12400.2 | 11912.7 | 11369.3 | 10866.6 | 10671.9 | 10528.5 | 9905.1  | 9607.7  | 9310.4  |
| 40°   | 12819.9 | 12851.6 | 12434.9 | 11835.7 | 11348.1 | 11206.2 | 11197.2 | 10513.4 | 10217.5 | 9929.2  |
| 42.5° | 12940.6 | 12996.5 | 12694.6 | 12202.5 | 11760.2 | 11606.2 | 11843.2 | 11171.5 | 10927.0 | 10646.2 |
| 45°   | 12723.2 | 12777.6 | 12640.2 | 12299.1 | 12041.0 | 11941.3 | 12398.7 | 11853.8 | 11684.7 | 11407.0 |
| 47.5° | 12089.3 | 12157.2 | 12190.4 | 12118.0 | 12114.9 | 12216.1 | 12896.8 | 12572.3 | 12584.4 | 12300.6 |
| 50°   | 10862.1 | 10976.8 | 11281.7 | 11538.3 | 11935.3 | 12433.4 | 13381.4 | 13351.2 | 13598.7 | 13354.2 |
| 52.5° | 8631.1  | 8794.1  | 9844.7  | 10546.6 | 11438.7 | 12392.7 | 13914.2 | 14601.0 | 15378.4 | 15020.6 |
| 55°   | 6936.0  | 6936.0  | 7790.3  | 9103.6  | 10469.6 | 12124.0 | 14146.7 | 15413.1 | 16590.5 | 16506.0 |
| 57.5° | 5654.4  | 5722.4  | 6267.3  | 7428.1  | 9067.3  | 11484.0 | 14290.1 | 15923.3 | 17567.1 | 17505.2 |
| 60°   | 3489.9  | 3636.3  | 4665.7  | 5811.4  | 7471.8  | 10344.3 | 14199.5 | 16439.5 | 18752.0 | 18801.9 |
| 62.5° | 1965.3  | 2019.7  | 2478.5  | 4181.2  | 5809.9  | 8812.2  | 13506.7 | 16727.9 | 20267.5 | 20478.9 |
| 65°   | 1357.0  | 1384.2  | 1560.8  | 2602.3  | 4027.2  | 7016.0  | 12152.7 | 16548.2 | 21786.1 | 22213.2 |
| 67.5° | 985.7   | 999.3   | 1109.5  | 1589.5  | 2389.5  | 5086.9  | 10030.4 | 15642.5 | 22590.6 | 23304.6 |
| 70°   | 757.7   | 766.8   | 846.8   | 1044.5  | 1411.3  | 3139.7  | 7284.7  | 13841.8 | 22007.9 | 22860.8 |
| 72.5° | 615.9   | 624.9   | 686.8   | 772.8   | 935.9   | 1856.6  | 4415.2  | 11241.0 | 19435.8 | 20356.6 |
| 75°   | 519.3   | 531.3   | 587.2   | 643.0   | 733.6   | 1192.5  | 2071.0  | 7828.1  | 14616.1 | 15219.9 |
| 77.5° | 288.3   | 265.7   | 477.0   | 532.8   | 618.9   | 754.7   | 969.1   | 4606.9  | 8185.8  | 8353.4  |
| 80°   | 179.6   | 185.7   | 378.9   | 428.7   | 475.5   | 380.4   | 443.8   | 1773.6  | 2837.8  | 2695.9  |
| 82.5° | 10.6    | 24.2    | 291.3   | 309.4   | 326.0   | 163.0   | 167.6   | 602.3   | 683.8   | 627.9   |
| 85°   | 0.0     | 0.0     | 132.8   | 107.2   | 113.2   | 46.8    | 48.3    | 140.4   | 92.1    | 99.6    |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.0     | 0.0     | 4.5     | 9.1     | 12.1    | 4.5     | 6.0     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2803.1  | 0°    | 2803.1  | 2803.1 | 2803.1 | 2803.1 | 2803.1 | 2803.1 | 2803.1 | 2803.1 | 2803.1 | 2803.1 |
| 2946.5  | 2.5°  | 2840.8  | 2735.1 | 2520.8 | 2311.0 | 2140.4 | 1981.9 | 1868.7 | 1761.5 | 1707.2 | 1704.2 |
| 3136.7  | 5°    | 2926.8  | 2705.0 | 2276.3 | 1897.4 | 1592.5 | 1347.9 | 1189.5 | 1076.2 | 1018.9 | 999.3  |
| 3370.6  | 7.5°  | 3047.6  | 2714.0 | 2061.9 | 1535.1 | 1175.9 | 966.1  | 875.5  | 839.3  | 827.2  | 813.6  |
| 3634.8  | 10°   | 3200.1  | 2735.1 | 1870.2 | 1236.2 | 926.8  | 821.1  | 784.9  | 769.8  | 760.8  | 751.7  |
| 3932.1  | 12.5° | 3370.6  | 2754.8 | 1680.0 | 1026.4 | 815.1  | 760.8  | 735.1  | 717.0  | 704.9  | 694.4  |
| 4237.1  | 15°   | 3536.7  | 2766.8 | 1482.3 | 880.0  | 757.7  | 714.0  | 686.8  | 667.2  | 650.6  | 638.5  |
| 4535.9  | 17.5° | 3701.2  | 2783.4 | 1296.6 | 792.5  | 711.0  | 667.2  | 640.0  | 615.9  | 602.3  | 588.7  |
| 4849.9  | 20°   | 3883.8  | 2780.4 | 1121.5 | 730.6  | 664.2  | 620.4  | 591.7  | 569.1  | 555.5  | 540.4  |
| 5182.0  | 22.5° | 4052.9  | 2765.3 | 967.6  | 677.7  | 615.9  | 573.6  | 541.9  | 519.3  | 505.7  | 493.6  |
| 5521.6  | 25°   | 4247.6  | 2753.3 | 839.3  | 629.4  | 570.6  | 528.3  | 493.6  | 472.5  | 457.4  | 446.8  |
| 5862.7  | 27.5° | 4434.8  | 2735.1 | 745.7  | 585.7  | 526.8  | 486.0  | 452.8  | 428.7  | 415.1  | 407.6  |
| 6214.5  | 30°   | 4619.0  | 2730.6 | 711.0  | 543.4  | 487.6  | 446.8  | 413.6  | 391.0  | 380.4  | 377.4  |
| 6600.9  | 32.5° | 4840.8  | 2742.7 | 726.1  | 528.3  | 451.3  | 410.6  | 378.9  | 362.3  | 351.7  | 351.7  |
| 7031.1  | 35°   | 5077.8  | 2739.7 | 748.7  | 541.9  | 427.2  | 374.3  | 350.2  | 339.6  | 329.1  | 329.1  |
| 7508.1  | 37.5° | 5375.2  | 2744.2 | 766.8  | 564.5  | 418.1  | 344.2  | 330.6  | 317.0  | 310.9  | 310.9  |
| 8030.3  | 40°   | 5819.0  | 2893.6 | 757.7  | 584.2  | 415.1  | 323.0  | 295.9  | 291.3  | 286.8  | 286.8  |
| 8620.5  | 42.5° | 6362.4  | 3218.2 | 769.8  | 585.7  | 413.6  | 307.9  | 271.7  | 280.8  | 270.2  | 268.7  |
| 9286.2  | 45°   | 6957.1  | 3572.9 | 846.8  | 554.0  | 412.1  | 300.4  | 259.6  | 270.2  | 253.6  | 253.6  |
| 10057.5 | 47.5° | 7547.3  | 3924.6 | 925.3  | 508.7  | 407.6  | 298.9  | 249.1  | 243.0  | 238.5  | 240.0  |
| 11062.8 | 50°   | 8360.9  | 4211.4 | 955.5  | 446.8  | 397.0  | 295.9  | 229.4  | 230.9  | 227.9  | 230.9  |
| 12480.2 | 52.5° | 9247.0  | 4271.8 | 919.3  | 377.4  | 366.8  | 286.8  | 215.9  | 221.9  | 220.4  | 223.4  |
| 13478.0 | 55°   | 9799.4  | 4206.9 | 759.3  | 314.0  | 320.0  | 250.6  | 202.3  | 214.3  | 214.3  | 214.3  |
| 14453.1 | 57.5° | 10370.0 | 3930.6 | 538.9  | 255.1  | 265.7  | 205.3  | 190.2  | 206.8  | 205.3  | 203.8  |
| 15627.5 | 60°   | 10780.6 | 3483.8 | 354.7  | 209.8  | 211.3  | 169.1  | 176.6  | 194.7  | 193.2  | 185.7  |
| 16838.0 | 62.5° | 11087.0 | 2990.2 | 227.9  | 178.1  | 161.5  | 152.5  | 161.5  | 176.6  | 170.6  | 154.0  |
| 17864.5 | 65°   | 11052.3 | 2306.5 | 175.1  | 152.5  | 132.8  | 132.8  | 140.4  | 154.0  | 135.9  | 108.7  |
| 18060.7 | 67.5° | 10407.7 | 1560.8 | 144.9  | 128.3  | 111.7  | 110.2  | 116.2  | 128.3  | 116.2  | 92.1   |
| 17055.4 | 70°   | 9256.0  | 1020.4 | 116.2  | 99.6   | 89.1   | 81.5   | 93.6   | 110.2  | 98.1   | 74.0   |
| 14519.5 | 72.5° | 7512.6  | 621.9  | 87.5   | 72.5   | 64.9   | 52.8   | 74.0   | 90.6   | 78.5   | 54.3   |
| 10096.8 | 75°   | 4860.5  | 317.0  | 60.4   | 46.8   | 34.7   | 31.7   | 54.3   | 67.9   | 54.3   | 33.2   |
| 4480.1  | 77.5° | 1859.7  | 132.8  | 33.2   | 21.1   | 18.1   | 15.1   | 30.2   | 40.8   | 22.6   | 7.5    |
| 867.9   | 80°   | 357.7   | 55.9   | 16.6   | 10.6   | 9.1    | 6.0    | 4.5    | 3.0    | 0.0    | 0.0    |
| 154.0   | 82.5° | 61.9    | 18.1   | 6.0    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 30.2    | 85°   | 21.1    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 10.6    | 87.5° | 7.5     | 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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|--------|
| 180°   |
| 2803.1 |
| 1701.2 |
| 996.2  |
| 810.6  |
| 748.7  |
| 691.3  |
| 637.0  |
| 587.2  |
| 538.9  |
| 492.1  |
| 445.3  |
| 407.6  |
| 375.9  |
| 351.7  |
| 329.1  |
| 310.9  |
| 286.8  |
| 267.2  |
| 253.6  |
| 240.0  |
| 230.9  |
| 223.4  |
| 214.3  |
| 203.8  |
| 185.7  |
| 150.9  |
| 105.7  |
| 89.1   |
| 70.9   |
| 51.3   |
| 28.7   |
| 6.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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