

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: P953564

Luminaire Tested: **GALN-SB7A-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953564  
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-SB7A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

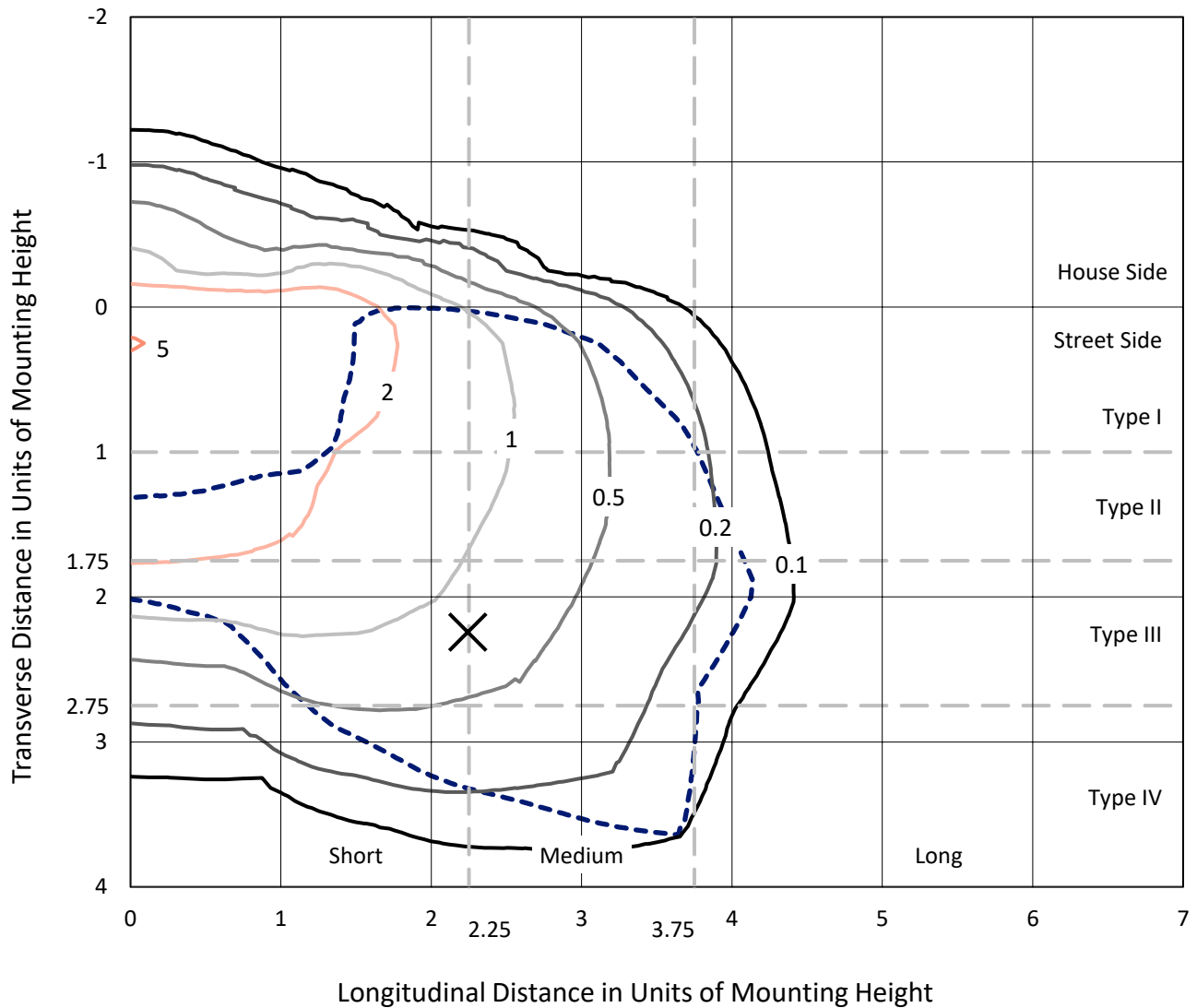
Lumens per Lamp: N/A  
Luminaire Lumens: 21368 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

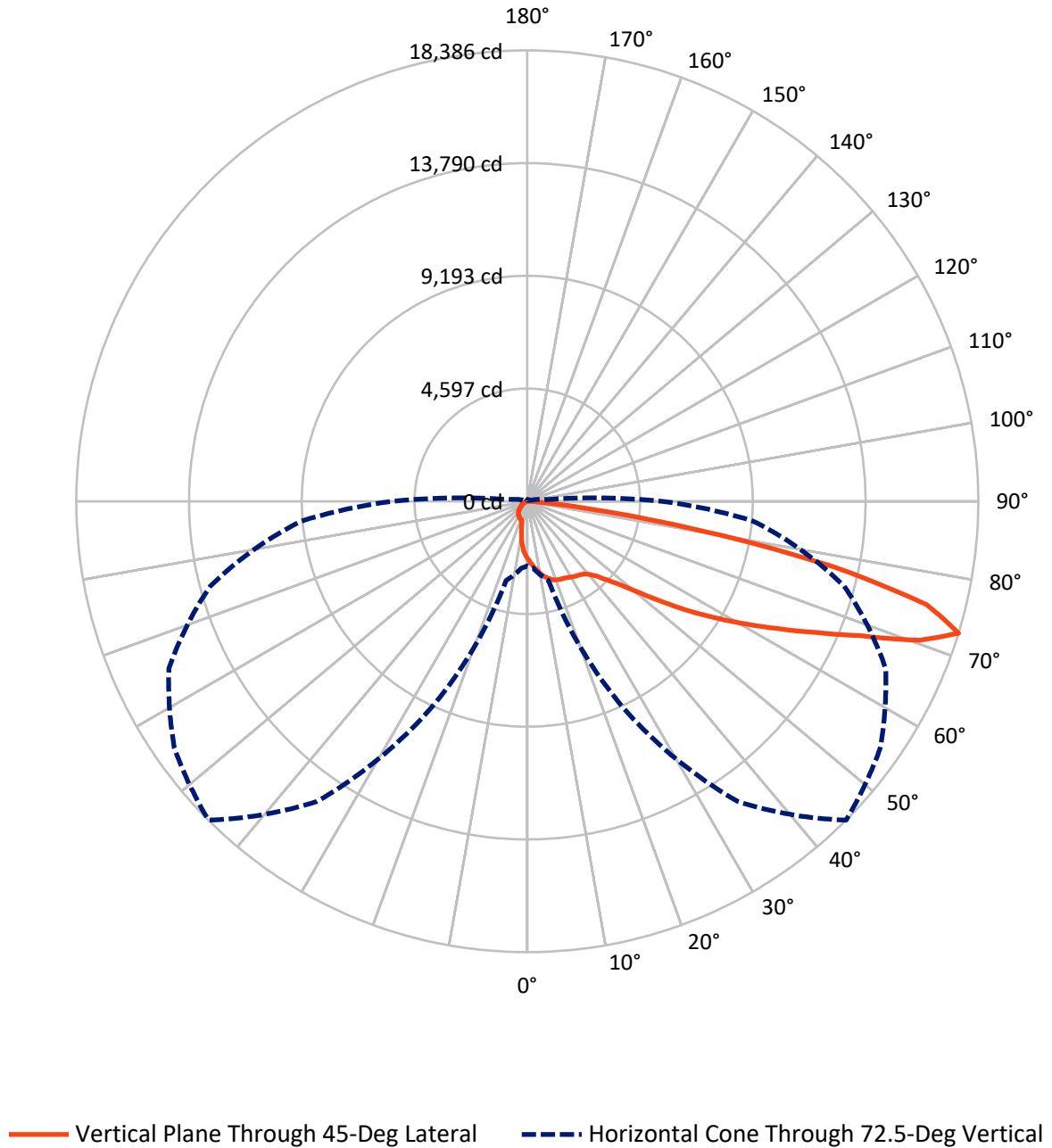
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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    | 2245.2   | 0.0    | 2245.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 19122.8  | 0.0    | 19122.8 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 21368.0  | 0.0    | 21368.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 220.6   | 1.0       |
| 10°-20°   | 644.6   | 3.0       |
| 20°-30°   | 1058.5  | 5.0       |
| 30°-40°   | 1501.3  | 7.0       |
| 40°-50°   | 2481.4  | 11.6      |
| 50°-60°   | 4457.6  | 20.9      |
| 60°-70°   | 6189.6  | 29.0      |
| 70°-80°   | 4489.8  | 21.0      |
| 80°-90°   | 324.6   | 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°    | 21368.0 | 100.0     |
| 0°-180°   | 21368.0 | 100.0     |

**Coefficient of Utilization**



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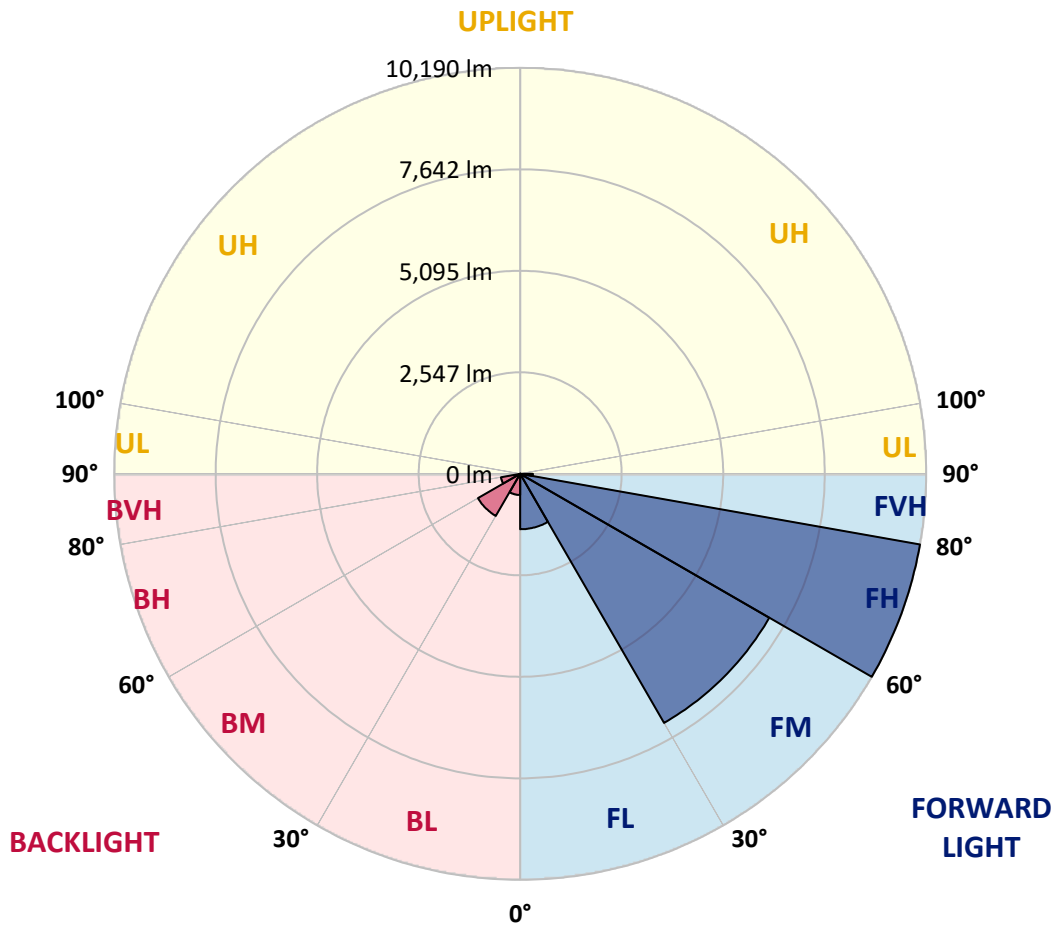
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1391.9  | 6.5       |                         |      |          |
| FM (30°-60°)   | 7219.2  | 33.8      |                         |      |          |
| FH (60°-80°)   | 10189.8 | 47.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 321.9   | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 531.8   | 2.5       | B2/1000                 |      |          |
| BM (30°-60°)   | 1221.1  | 5.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 489.6   | 2.3       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.7     | 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°    | 2340.9  | 2340.9  | 2340.9  | 2340.9  | 2340.9  | 2340.9  | 2340.9  | 2340.9  | 2340.9  | 2340.9  |
| 2.5°  | 2556.8  | 2561.1  | 2558.2  | 2540.7  | 2511.6  | 2495.5  | 2486.8  | 2457.6  | 2438.6  | 2405.1  |
| 5°    | 2791.6  | 2809.1  | 2798.9  | 2763.9  | 2708.5  | 2669.1  | 2657.4  | 2597.6  | 2543.6  | 2480.9  |
| 7.5°  | 3041.0  | 3049.7  | 3030.8  | 2985.6  | 2911.2  | 2844.1  | 2833.9  | 2750.8  | 2664.7  | 2568.4  |
| 10°   | 3256.9  | 3267.1  | 3237.9  | 3172.3  | 3087.7  | 3004.5  | 2989.9  | 2898.1  | 2796.0  | 2677.8  |
| 12.5° | 3437.7  | 3447.9  | 3410.0  | 3331.2  | 3237.9  | 3151.8  | 3137.3  | 3041.0  | 2928.7  | 2797.4  |
| 15°   | 3574.8  | 3593.8  | 3542.7  | 3458.1  | 3357.5  | 3271.4  | 3264.1  | 3169.3  | 3060.0  | 2914.1  |
| 17.5° | 3655.0  | 3674.0  | 3625.9  | 3523.8  | 3437.7  | 3364.8  | 3356.0  | 3277.3  | 3175.2  | 3035.2  |
| 20°   | 3668.2  | 3685.7  | 3634.6  | 3545.6  | 3474.2  | 3415.8  | 3411.5  | 3354.6  | 3280.2  | 3146.0  |
| 22.5° | 3628.8  | 3650.7  | 3604.0  | 3532.5  | 3482.9  | 3452.3  | 3446.5  | 3414.4  | 3372.1  | 3258.3  |
| 25°   | 3587.9  | 3605.4  | 3570.4  | 3507.7  | 3481.5  | 3478.5  | 3482.9  | 3477.1  | 3468.3  | 3372.1  |
| 27.5° | 3585.0  | 3604.0  | 3564.6  | 3504.8  | 3490.2  | 3520.8  | 3525.2  | 3552.9  | 3560.2  | 3475.6  |
| 30°   | 3609.8  | 3622.9  | 3585.0  | 3522.3  | 3515.0  | 3585.0  | 3586.5  | 3636.1  | 3647.7  | 3563.1  |
| 32.5° | 3663.8  | 3678.4  | 3640.4  | 3548.6  | 3538.3  | 3636.1  | 3640.4  | 3706.1  | 3725.0  | 3656.5  |
| 35°   | 3790.7  | 3808.2  | 3764.4  | 3621.5  | 3585.0  | 3684.2  | 3697.3  | 3774.6  | 3812.5  | 3755.7  |
| 37.5° | 4107.2  | 4056.1  | 3996.3  | 3768.8  | 3691.5  | 3760.0  | 3781.9  | 3872.3  | 3939.4  | 3873.8  |
| 40°   | 4893.3  | 4732.9  | 4546.2  | 4019.7  | 3878.2  | 3921.9  | 3939.4  | 4029.9  | 4121.8  | 4057.6  |
| 42.5° | 6073.2  | 5883.6  | 5583.2  | 4597.2  | 4159.7  | 4181.6  | 4194.7  | 4273.4  | 4403.2  | 4352.2  |
| 45°   | 7124.8  | 7056.3  | 6750.0  | 5583.2  | 4686.2  | 4578.3  | 4594.3  | 4635.1  | 4826.2  | 4807.3  |
| 47.5° | 7932.8  | 7893.5  | 7657.2  | 6715.0  | 5575.9  | 5063.9  | 5109.2  | 5128.1  | 5403.8  | 5470.9  |
| 50°   | 8554.2  | 8539.6  | 8328.1  | 7721.4  | 6738.3  | 5780.1  | 5796.1  | 5755.3  | 6168.0  | 6334.3  |
| 52.5° | 9140.5  | 9190.1  | 9034.0  | 8656.3  | 7979.5  | 6717.9  | 6715.0  | 6522.5  | 7079.6  | 7330.5  |
| 55°   | 9669.9  | 9687.4  | 9703.5  | 9610.1  | 9228.0  | 7785.5  | 7757.8  | 7442.8  | 8137.0  | 8396.6  |
| 57.5° | 10167.3 | 10174.6 | 10317.5 | 10508.6 | 10527.5 | 8931.9  | 8880.9  | 8503.1  | 9292.2  | 9477.4  |
| 60°   | 10501.3 | 10534.8 | 10836.7 | 11367.6 | 11599.5 | 10114.8 | 10087.1 | 9702.0  | 10467.7 | 10553.8 |
| 62.5° | 10020.0 | 10224.2 | 10985.5 | 12038.5 | 12611.7 | 11426.0 | 11412.8 | 11051.1 | 11704.5 | 11634.5 |
| 65°   | 8110.8  | 8456.4  | 9795.4  | 12492.1 | 13605.0 | 12890.3 | 12909.3 | 12524.2 | 12974.9 | 12747.4 |
| 67.5° | 5673.6  | 6038.2  | 7622.2  | 12528.6 | 14714.9 | 14609.9 | 14719.3 | 14115.5 | 14324.0 | 13813.6 |
| 70°   | 3923.4  | 4111.5  | 5142.7  | 11743.9 | 15579.8 | 16978.5 | 16975.6 | 16069.9 | 15665.9 | 14299.2 |
| 72.5° | 2638.4  | 2736.2  | 3340.0  | 9317.0  | 14943.9 | 18386.0 | 18301.4 | 17563.4 | 16118.0 | 13373.1 |
| 75°   | 1112.8  | 1184.3  | 1546.0  | 5236.1  | 11822.7 | 16821.0 | 16592.0 | 15521.5 | 14321.1 | 10530.4 |
| 77.5° | 353.0   | 383.6   | 609.7   | 1874.2  | 6512.3  | 12643.8 | 12401.7 | 9693.3  | 9598.5  | 5282.7  |
| 80°   | 167.7   | 195.4   | 342.8   | 752.6   | 2562.6  | 6876.9  | 6843.3  | 4397.4  | 4129.0  | 1426.4  |
| 82.5° | 72.9    | 86.1    | 189.6   | 402.5   | 1146.4  | 2453.2  | 2502.8  | 1496.4  | 1238.3  | 541.1   |
| 85°   | 23.3    | 30.6    | 87.5    | 185.2   | 484.2   | 609.7   | 602.4   | 355.9   | 498.8   | 294.6   |
| 87.5° | 0.0     | 0.0     | 29.2    | 42.3    | 49.6    | 35.0    | 39.4    | 30.6    | 138.6   | 81.7    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2340.9  | 0°    | 2340.9 | 2340.9 | 2340.9 | 2340.9 | 2340.9 | 2340.9 | 2340.9 | 2340.9 | 2340.9 | 2340.9 |
| 2370.1  | 2.5°  | 2352.6 | 2329.2 | 2288.4 | 2250.5 | 2216.9 | 2183.4 | 2163.0 | 2133.8 | 2130.9 | 2130.9 |
| 2408.0  | 5°    | 2368.6 | 2330.7 | 2257.8 | 2180.5 | 2091.5 | 2006.9 | 1922.3 | 1840.6 | 1814.4 | 1795.4 |
| 2469.3  | 7.5°  | 2415.3 | 2355.5 | 2240.3 | 2093.0 | 1923.8 | 1738.5 | 1608.7 | 1468.7 | 1414.8 | 1385.6 |
| 2550.9  | 10°   | 2482.4 | 2400.7 | 2225.7 | 1967.5 | 1693.3 | 1441.0 | 1255.8 | 1104.1 | 1045.8 | 1021.0 |
| 2639.9  | 12.5° | 2556.8 | 2456.1 | 2199.4 | 1811.5 | 1441.0 | 1139.1 | 958.2  | 888.2  | 879.5  | 879.5  |
| 2746.4  | 15°   | 2645.7 | 2523.2 | 2154.2 | 1627.7 | 1177.0 | 901.4  | 837.2  | 840.1  | 848.9  | 854.7  |
| 2849.9  | 17.5° | 2737.6 | 2594.7 | 2082.8 | 1422.0 | 943.7  | 810.9  | 812.4  | 816.8  | 824.1  | 829.9  |
| 2962.2  | 20°   | 2836.8 | 2666.2 | 1988.0 | 1203.3 | 809.5  | 784.7  | 789.1  | 793.4  | 799.3  | 802.2  |
| 3067.2  | 22.5° | 2943.3 | 2733.2 | 1875.6 | 988.9  | 764.3  | 762.8  | 764.3  | 768.6  | 775.9  | 775.9  |
| 3189.8  | 25°   | 3057.0 | 2807.6 | 1747.3 | 832.8  | 740.9  | 740.9  | 743.8  | 746.8  | 752.6  | 752.6  |
| 3307.9  | 27.5° | 3173.7 | 2876.2 | 1611.7 | 751.1  | 720.5  | 719.0  | 719.0  | 723.4  | 726.3  | 727.8  |
| 3424.6  | 30°   | 3302.1 | 2956.4 | 1476.0 | 733.6  | 704.5  | 697.2  | 692.8  | 695.7  | 698.6  | 700.1  |
| 3547.1  | 32.5° | 3433.3 | 3033.7 | 1355.0 | 740.9  | 688.4  | 675.3  | 660.7  | 657.8  | 657.8  | 663.6  |
| 3674.0  | 35°   | 3579.2 | 3118.3 | 1261.6 | 765.7  | 679.7  | 643.2  | 619.9  | 606.7  | 608.2  | 617.0  |
| 3825.7  | 37.5° | 3754.2 | 3220.4 | 1193.1 | 787.6  | 673.8  | 606.7  | 568.8  | 552.8  | 542.6  | 552.8  |
| 4034.2  | 40°   | 3983.2 | 3370.6 | 1143.5 | 805.1  | 666.5  | 564.4  | 513.4  | 487.1  | 468.2  | 474.0  |
| 4358.0  | 42.5° | 4320.1 | 3606.9 | 1124.5 | 806.6  | 650.5  | 514.9  | 456.5  | 421.5  | 393.8  | 395.3  |
| 4845.2  | 45°   | 4792.7 | 3980.3 | 1222.2 | 787.6  | 615.5  | 460.9  | 396.7  | 350.0  | 332.5  | 328.2  |
| 5573.0  | 47.5° | 5440.2 | 4524.3 | 1448.3 | 748.2  | 564.4  | 408.4  | 338.4  | 299.0  | 285.9  | 278.6  |
| 6528.3  | 50°   | 6308.1 | 5222.9 | 1699.2 | 704.5  | 513.4  | 358.8  | 290.2  | 265.4  | 256.7  | 249.4  |
| 7661.6  | 52.5° | 7314.4 | 5931.8 | 1904.8 | 660.7  | 462.3  | 315.0  | 259.6  | 245.0  | 237.7  | 231.9  |
| 8755.4  | 55°   | 8237.7 | 6420.4 | 1893.1 | 614.0  | 412.8  | 280.0  | 237.7  | 229.0  | 220.2  | 214.4  |
| 9697.6  | 57.5° | 8812.3 | 6488.9 | 1560.6 | 563.0  | 355.9  | 252.3  | 217.3  | 211.5  | 201.3  | 194.0  |
| 10512.9 | 60°   | 9076.3 | 6098.0 | 1093.9 | 495.9  | 299.0  | 226.1  | 195.4  | 192.5  | 179.4  | 169.2  |
| 11284.5 | 62.5° | 9124.4 | 5371.7 | 729.3  | 412.8  | 249.4  | 201.3  | 173.6  | 169.2  | 151.7  | 134.2  |
| 11911.7 | 65°   | 8929.0 | 4333.2 | 504.6  | 322.3  | 212.9  | 175.0  | 148.8  | 140.0  | 121.1  | 103.6  |
| 12060.4 | 67.5° | 8310.6 | 3042.5 | 351.5  | 231.9  | 180.9  | 138.6  | 118.1  | 115.2  | 100.6  | 86.1   |
| 11302.0 | 70°   | 7177.3 | 1734.2 | 234.8  | 173.6  | 142.9  | 94.8   | 93.3   | 96.3   | 81.7   | 70.0   |
| 9233.8  | 72.5° | 5503.0 | 793.4  | 145.9  | 126.9  | 97.7   | 64.2   | 74.4   | 75.8   | 62.7   | 52.5   |
| 5761.1  | 75°   | 3239.4 | 339.8  | 91.9   | 81.7   | 49.6   | 42.3   | 54.0   | 55.4   | 42.3   | 33.5   |
| 2106.1  | 77.5° | 1102.6 | 128.3  | 58.3   | 48.1   | 24.8   | 23.3   | 35.0   | 35.0   | 23.3   | 13.1   |
| 423.0   | 80°   | 250.9  | 48.1   | 29.2   | 19.0   | 11.7   | 10.2   | 11.7   | 10.2   | 5.8    | 1.5    |
| 129.8   | 82.5° | 71.5   | 19.0   | 11.7   | 7.3    | 4.4    | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    |
| 45.2    | 85°   | 20.4   | 8.8    | 2.9    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16.0    | 87.5° | 8.8    | 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°   |
| 2340.9 |
| 2138.2 |
| 1804.2 |
| 1390.0 |
| 1021.0 |
| 879.5  |
| 854.7  |
| 829.9  |
| 803.6  |
| 778.8  |
| 754.1  |
| 729.3  |
| 703.0  |
| 668.0  |
| 621.3  |
| 549.9  |
| 471.1  |
| 389.4  |
| 322.3  |
| 274.2  |
| 247.9  |
| 230.4  |
| 211.5  |
| 192.5  |
| 166.3  |
| 125.4  |
| 97.7   |
| 81.7   |
| 64.2   |
| 46.7   |
| 29.2   |
| 10.2   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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