

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: P950261

Luminaire Tested: **GALN-SB4D-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950261  
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-SB4D-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

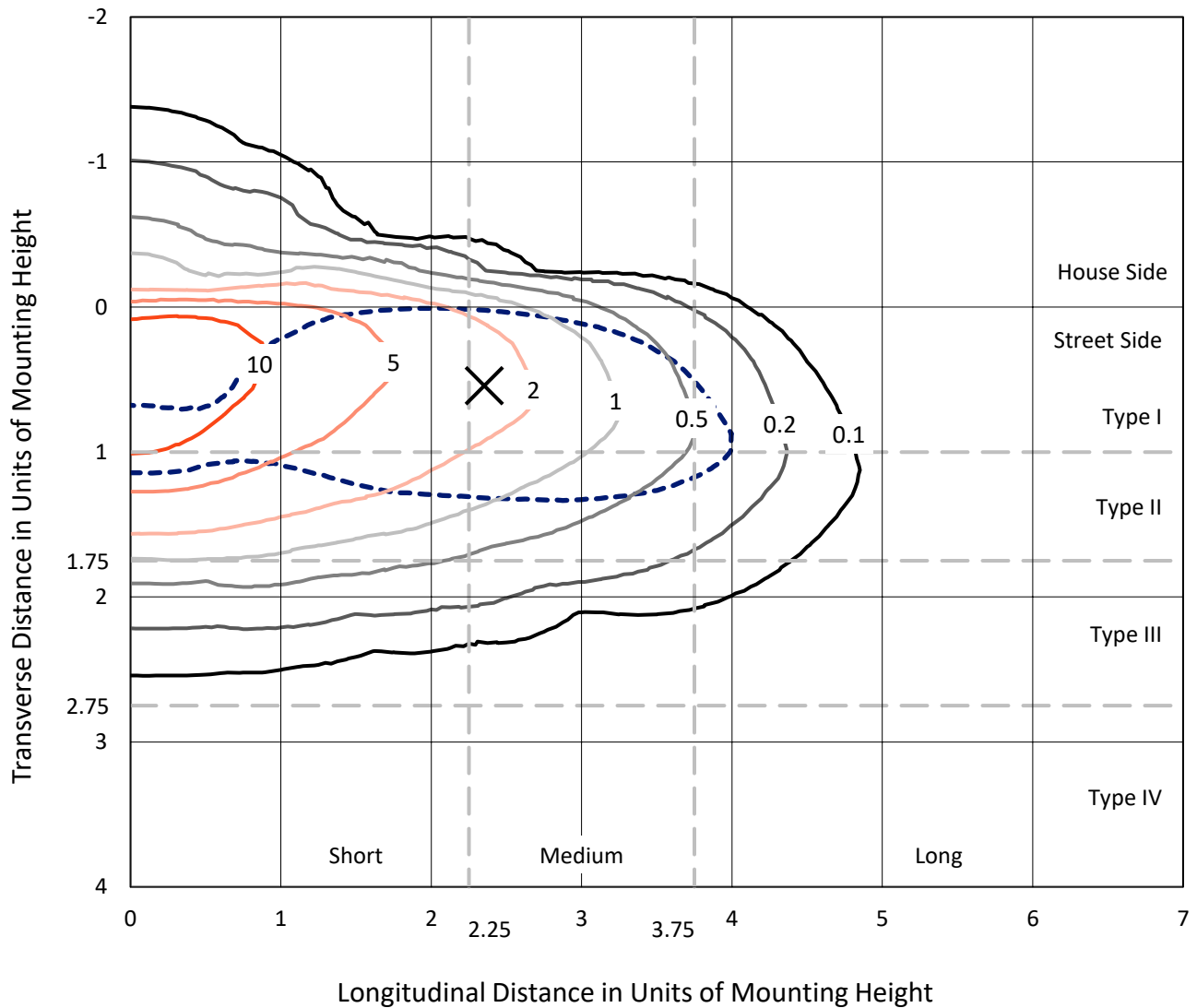
Lumens per Lamp: N/A  
Luminaire Lumens: 34530 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

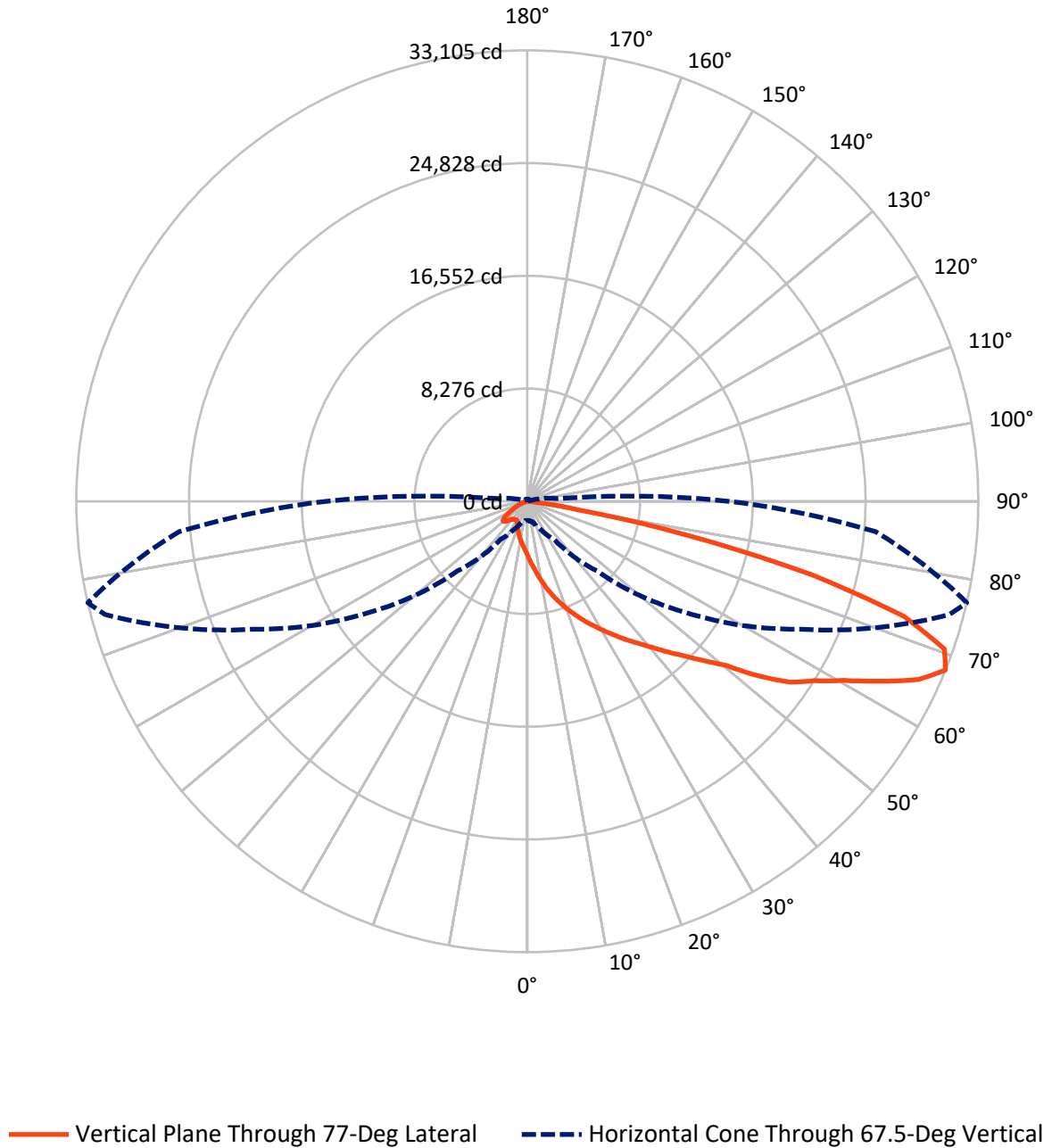
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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    | 2540.4   | 0.0    | 2540.4  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 31989.6  | 0.0    | 31989.6 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 34530.0  | 0.0    | 34530.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 406.4   | 1.2       |
| 10°-20°   | 1423.2  | 4.1       |
| 20°-30°   | 2746.4  | 8.0       |
| 30°-40°   | 4767.9  | 13.8      |
| 40°-50°   | 6922.7  | 20.0      |
| 50°-60°   | 7949.8  | 23.0      |
| 60°-70°   | 6901.9  | 20.0      |
| 70°-80°   | 3250.9  | 9.4       |
| 80°-90°   | 160.8   | 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°    | 34530.0 | 100.0     |
| 0°-180°   | 34530.0 | 100.0     |

**Coefficient of Utilization**



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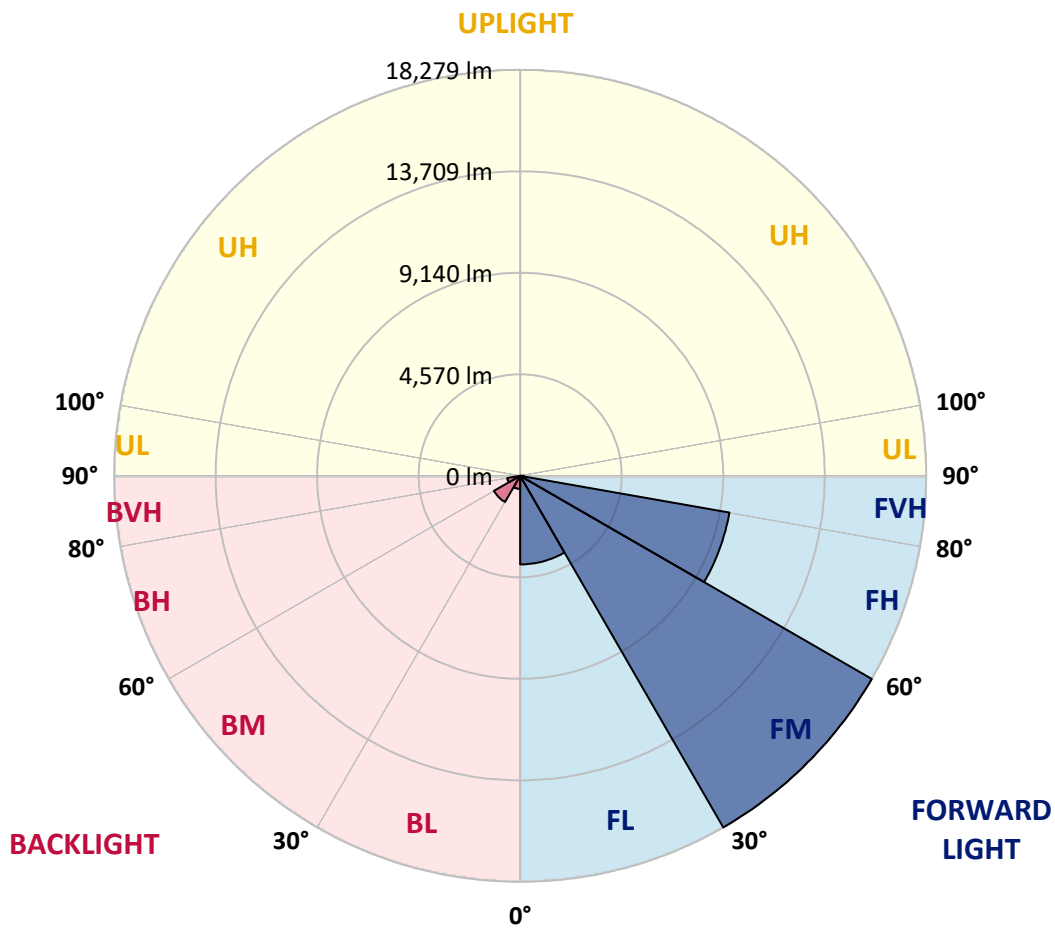
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3987.8  | 11.5      |                         |      |          |
| FM (30°-60°)   | 18279.2 | 52.9      |                         |      |          |
| FH (60°-80°)   | 9564.7  | 27.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 157.8   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 588.1   | 1.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 1361.2  | 3.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 588.1   | 1.7       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 3.0     | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3981.8  | 3981.8  | 3981.8  | 3981.8  | 3981.8  | 3981.8  | 3981.8  | 3981.8  | 3981.8  | 3981.8  |
| 2.5°  | 5512.8  | 5547.1  | 5497.8  | 5403.4  | 5261.9  | 5169.7  | 4944.6  | 4732.3  | 4496.4  | 4421.4  |
| 5°    | 6720.0  | 6750.0  | 6694.3  | 6591.3  | 6402.6  | 6222.5  | 5926.6  | 5482.8  | 5021.8  | 4873.8  |
| 7.5°  | 7614.1  | 7631.3  | 7609.8  | 7515.5  | 7335.4  | 7131.7  | 6801.5  | 6276.1  | 5592.1  | 5429.2  |
| 10°   | 8257.4  | 8313.1  | 8306.7  | 8270.3  | 8150.2  | 7985.1  | 7633.4  | 7035.2  | 6231.1  | 6021.0  |
| 12.5° | 8684.1  | 8746.3  | 8782.7  | 8864.2  | 8857.8  | 8752.7  | 8443.9  | 7811.4  | 6867.9  | 6621.4  |
| 15°   | 8808.5  | 8874.9  | 9014.3  | 9203.0  | 9370.2  | 9423.8  | 9207.3  | 8572.6  | 7569.1  | 7253.9  |
| 17.5° | 8737.7  | 8840.6  | 9007.9  | 9305.9  | 9672.6  | 9914.9  | 9891.3  | 9308.1  | 8205.9  | 7845.7  |
| 20°   | 8894.2  | 8992.9  | 9123.7  | 9374.5  | 9801.2  | 10240.8 | 10416.6 | 10011.4 | 8838.5  | 8461.1  |
| 22.5° | 9760.5  | 9743.3  | 9756.2  | 9796.9  | 10052.1 | 10487.4 | 10849.8 | 10650.3 | 9464.6  | 9078.6  |
| 25°   | 11132.8 | 11055.6 | 10924.8 | 10703.9 | 10639.6 | 10849.8 | 11227.1 | 11216.4 | 10125.0 | 9711.2  |
| 27.5° | 12706.6 | 12693.8 | 12387.2 | 11855.4 | 11555.2 | 11473.7 | 11653.8 | 11767.5 | 10779.0 | 10337.3 |
| 30°   | 14214.0 | 14248.3 | 13834.5 | 13242.7 | 12691.6 | 12372.1 | 12209.2 | 12290.7 | 11443.7 | 11012.7 |
| 32.5° | 15526.3 | 15562.7 | 15112.5 | 14419.9 | 13738.0 | 13352.1 | 13009.0 | 12807.4 | 12168.4 | 11698.9 |
| 35°   | 16634.9 | 16671.3 | 16154.6 | 15389.1 | 14662.2 | 14312.7 | 13924.6 | 13373.5 | 12897.5 | 12460.1 |
| 37.5° | 17625.5 | 17614.8 | 16922.2 | 16150.3 | 15436.2 | 15159.6 | 14955.9 | 14070.4 | 13648.0 | 13225.5 |
| 40°   | 18210.9 | 18255.9 | 17664.1 | 16812.8 | 16120.2 | 15918.7 | 15905.8 | 14934.5 | 14514.2 | 14104.7 |
| 42.5° | 18382.4 | 18461.7 | 18032.9 | 17333.9 | 16705.6 | 16486.9 | 16823.6 | 15869.4 | 15522.0 | 15123.2 |
| 45°   | 18073.6 | 18150.8 | 17955.7 | 17471.1 | 17104.4 | 16962.9 | 17612.6 | 16838.6 | 16598.4 | 16203.9 |
| 47.5° | 17173.1 | 17269.5 | 17316.7 | 17213.8 | 17209.5 | 17353.2 | 18320.2 | 17859.2 | 17876.4 | 17473.2 |
| 50°   | 15429.8 | 15592.8 | 16025.9 | 16390.4 | 16954.3 | 17661.9 | 19008.5 | 18965.6 | 19317.3 | 18969.9 |
| 52.5° | 12260.7 | 12492.2 | 13984.6 | 14981.7 | 16248.9 | 17604.0 | 19765.4 | 20741.0 | 21845.3 | 21337.1 |
| 55°   | 9852.7  | 9852.7  | 11066.3 | 12931.8 | 14872.3 | 17222.4 | 20095.6 | 21894.6 | 23567.1 | 23447.0 |
| 57.5° | 8032.2  | 8128.7  | 8902.8  | 10551.7 | 12880.3 | 16313.2 | 20299.3 | 22619.4 | 24954.4 | 24866.5 |
| 60°   | 4957.4  | 5165.4  | 6627.8  | 8255.2  | 10613.9 | 14694.3 | 20170.7 | 23352.7 | 26637.6 | 26708.4 |
| 62.5° | 2791.8  | 2869.0  | 3520.8  | 5939.5  | 8253.1  | 12518.0 | 19186.5 | 23762.2 | 28790.4 | 29090.6 |
| 65°   | 1927.7  | 1966.2  | 2217.1  | 3696.6  | 5720.8  | 9966.3  | 17263.1 | 23507.1 | 30947.5 | 31554.3 |
| 67.5° | 1400.2  | 1419.5  | 1576.0  | 2257.9  | 3394.3  | 7226.0  | 14248.3 | 22220.6 | 32090.4 | 33104.6 |
| 70°   | 1076.4  | 1089.3  | 1202.9  | 1483.8  | 2004.8  | 4460.0  | 10348.0 | 19662.5 | 31262.7 | 32474.2 |
| 72.5° | 874.8   | 887.7   | 975.6   | 1097.8  | 1329.4  | 2637.4  | 6271.8  | 15968.0 | 27609.0 | 28917.0 |
| 75°   | 737.6   | 754.8   | 834.1   | 913.4   | 1042.1  | 1693.9  | 2941.9  | 11119.9 | 20762.5 | 21620.2 |
| 77.5° | 409.5   | 377.4   | 677.6   | 756.9   | 879.1   | 1072.1  | 1376.6  | 6544.2  | 11628.1 | 11866.1 |
| 80°   | 255.2   | 263.7   | 538.2   | 609.0   | 675.4   | 540.3   | 630.4   | 2519.5  | 4031.1  | 3829.6  |
| 82.5° | 15.0    | 34.3    | 413.8   | 439.6   | 463.2   | 231.6   | 238.0   | 855.5   | 971.3   | 892.0   |
| 85°   | 0.0     | 0.0     | 188.7   | 152.2   | 160.8   | 66.5    | 68.6    | 199.4   | 130.8   | 141.5   |
| 87.5° | 0.0     | 0.0     | 0.0     | 4.3     | 0.0     | 6.4     | 12.9    | 17.2    | 6.4     | 8.6     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3981.8  | 0°    | 3981.8  | 3981.8 | 3981.8 | 3981.8 | 3981.8 | 3981.8 | 3981.8 | 3981.8 | 3981.8 | 3981.8 |
| 4185.5  | 2.5°  | 4035.4  | 3885.3 | 3580.8 | 3282.8 | 3040.5 | 2815.4 | 2654.5 | 2502.3 | 2425.1 | 2420.8 |
| 4455.7  | 5°    | 4157.6  | 3842.4 | 3233.5 | 2695.3 | 2262.2 | 1914.8 | 1689.6 | 1528.8 | 1447.3 | 1419.5 |
| 4788.0  | 7.5°  | 4329.2  | 3855.3 | 2929.0 | 2180.7 | 1670.3 | 1372.3 | 1243.6 | 1192.2 | 1175.0 | 1155.7 |
| 5163.3  | 10°   | 4545.7  | 3885.3 | 2656.7 | 1756.1 | 1316.6 | 1166.5 | 1115.0 | 1093.6 | 1080.7 | 1067.8 |
| 5585.7  | 12.5° | 4788.0  | 3913.2 | 2386.5 | 1458.1 | 1157.9 | 1080.7 | 1044.2 | 1018.5 | 1001.4 | 986.3  |
| 6018.8  | 15°   | 5023.9  | 3930.4 | 2105.6 | 1250.1 | 1076.4 | 1014.2 | 975.6  | 947.7  | 924.2  | 907.0  |
| 6443.4  | 17.5° | 5257.6  | 3953.9 | 1841.9 | 1125.7 | 1009.9 | 947.7  | 909.1  | 874.8  | 855.5  | 836.2  |
| 6889.4  | 20°   | 5517.1  | 3949.7 | 1593.2 | 1037.8 | 943.5  | 881.3  | 840.5  | 808.4  | 789.1  | 767.6  |
| 7361.1  | 22.5° | 5757.2  | 3928.2 | 1374.4 | 962.8  | 874.8  | 814.8  | 769.8  | 737.6  | 718.3  | 701.2  |
| 7843.6  | 25°   | 6033.8  | 3911.1 | 1192.2 | 894.1  | 810.5  | 750.5  | 701.2  | 671.1  | 649.7  | 634.7  |
| 8328.2  | 27.5° | 6299.7  | 3885.3 | 1059.2 | 832.0  | 748.3  | 690.4  | 643.3  | 609.0  | 589.7  | 578.9  |
| 8827.8  | 30°   | 6561.3  | 3878.9 | 1009.9 | 771.9  | 692.6  | 634.7  | 587.5  | 555.4  | 540.3  | 536.1  |
| 9376.7  | 32.5° | 6876.5  | 3896.0 | 1031.4 | 750.5  | 641.1  | 583.2  | 538.2  | 514.6  | 499.6  | 499.6  |
| 9987.8  | 35°   | 7213.2  | 3891.8 | 1063.5 | 769.8  | 606.8  | 531.8  | 497.5  | 482.4  | 467.4  | 467.4  |
| 10665.4 | 37.5° | 7635.6  | 3898.2 | 1089.3 | 801.9  | 593.9  | 488.9  | 469.6  | 450.3  | 441.7  | 441.7  |
| 11407.3 | 40°   | 8266.0  | 4110.5 | 1076.4 | 829.8  | 589.7  | 458.9  | 420.3  | 413.8  | 407.4  | 407.4  |
| 12245.6 | 42.5° | 9037.9  | 4571.5 | 1093.6 | 832.0  | 587.5  | 437.4  | 386.0  | 398.8  | 383.8  | 381.7  |
| 13191.2 | 45°   | 9882.7  | 5075.4 | 1202.9 | 786.9  | 585.4  | 426.7  | 368.8  | 383.8  | 360.2  | 360.2  |
| 14286.9 | 47.5° | 10721.1 | 5575.0 | 1314.4 | 722.6  | 578.9  | 424.6  | 353.8  | 345.2  | 338.8  | 340.9  |
| 15715.0 | 50°   | 11876.8 | 5982.4 | 1357.3 | 634.7  | 563.9  | 420.3  | 325.9  | 328.1  | 323.8  | 328.1  |
| 17728.4 | 52.5° | 13135.5 | 6068.1 | 1305.8 | 536.1  | 521.0  | 407.4  | 306.6  | 315.2  | 313.1  | 317.3  |
| 19145.7 | 55°   | 13920.3 | 5975.9 | 1078.5 | 446.0  | 454.6  | 355.9  | 287.3  | 304.5  | 304.5  | 304.5  |
| 20530.9 | 57.5° | 14730.8 | 5583.5 | 765.5  | 362.4  | 377.4  | 291.6  | 270.2  | 293.8  | 291.6  | 289.5  |
| 22199.1 | 60°   | 15314.0 | 4948.9 | 503.9  | 298.0  | 300.2  | 240.2  | 250.9  | 276.6  | 274.5  | 263.7  |
| 23918.8 | 62.5° | 15749.3 | 4247.7 | 323.8  | 253.0  | 229.4  | 216.6  | 229.4  | 250.9  | 242.3  | 218.7  |
| 25376.8 | 65°   | 15700.0 | 3276.4 | 248.7  | 216.6  | 188.7  | 188.7  | 199.4  | 218.7  | 193.0  | 154.4  |
| 25655.6 | 67.5° | 14784.4 | 2217.1 | 205.8  | 182.3  | 158.7  | 156.5  | 165.1  | 182.3  | 165.1  | 130.8  |
| 24227.5 | 70°   | 13148.4 | 1449.5 | 165.1  | 141.5  | 126.5  | 115.8  | 132.9  | 156.5  | 139.4  | 105.1  |
| 20625.3 | 72.5° | 10671.8 | 883.4  | 124.4  | 102.9  | 92.2   | 75.0   | 105.1  | 128.7  | 111.5  | 77.2   |
| 14342.7 | 75°   | 6904.4  | 450.3  | 85.8   | 66.5   | 49.3   | 45.0   | 77.2   | 96.5   | 77.2   | 47.2   |
| 6364.0  | 77.5° | 2641.7  | 188.7  | 47.2   | 30.0   | 25.7   | 21.4   | 42.9   | 57.9   | 32.2   | 10.7   |
| 1232.9  | 80°   | 508.2   | 79.3   | 23.6   | 15.0   | 12.9   | 8.6    | 6.4    | 4.3    | 0.0    | 0.0    |
| 218.7   | 82.5° | 87.9    | 25.7   | 8.6    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.9    | 85°   | 30.0    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15.0    | 87.5° | 10.7    | 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> |
| 3981.8      |
| 2416.5      |
| 1415.2      |
| 1151.4      |
| 1063.5      |
| 982.1       |
| 904.9       |
| 834.1       |
| 765.5       |
| 699.0       |
| 632.5       |
| 578.9       |
| 533.9       |
| 499.6       |
| 467.4       |
| 441.7       |
| 407.4       |
| 379.5       |
| 360.2       |
| 340.9       |
| 328.1       |
| 317.3       |
| 304.5       |
| 289.5       |
| 263.7       |
| 214.4       |
| 150.1       |
| 126.5       |
| 100.8       |
| 72.9        |
| 40.7        |
| 8.6         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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