

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: P944616

Luminaire Tested: **GALN-SB9C-927-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-927-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

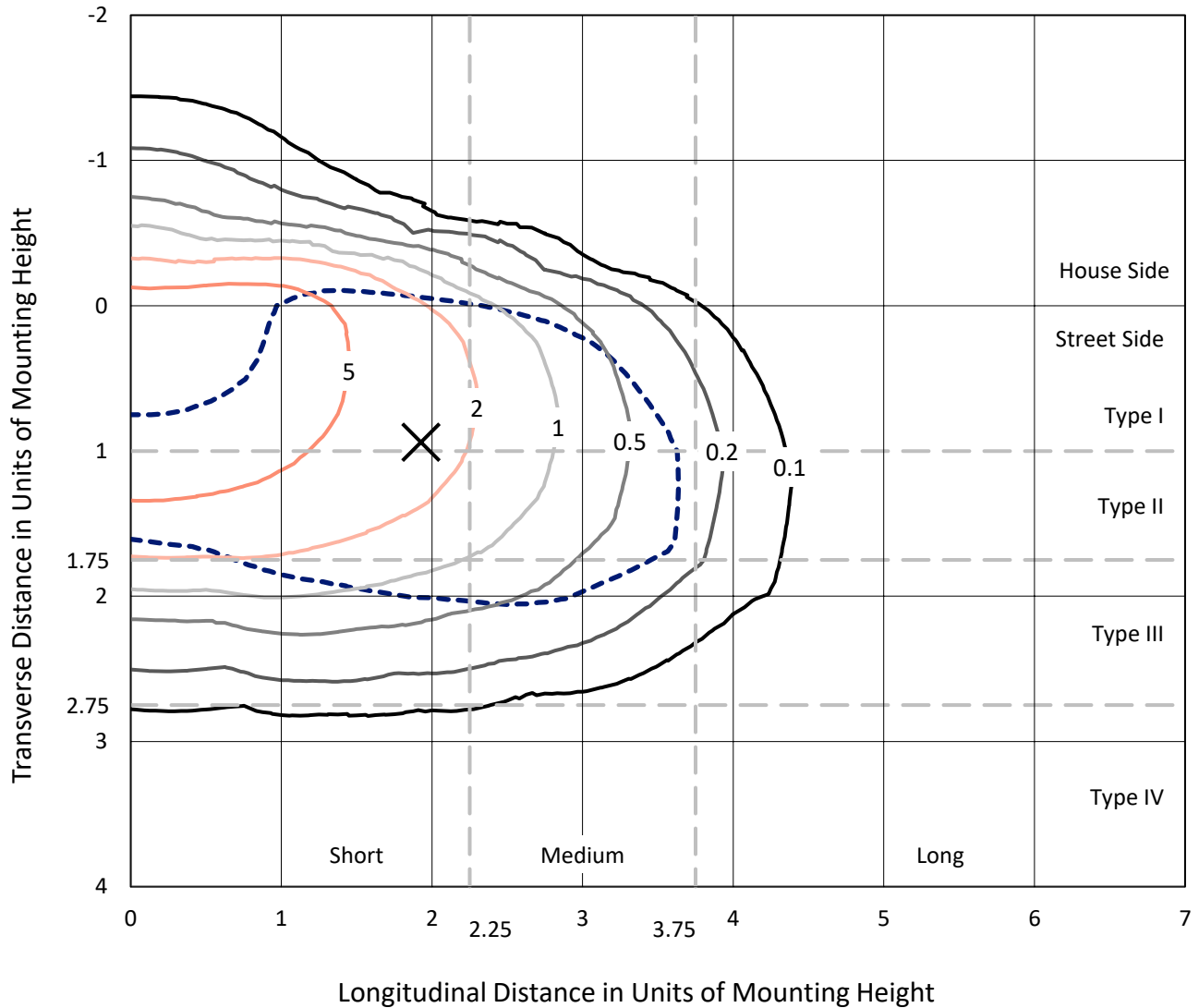
Lumens per Lamp: N/A  
Luminaire Lumens: 32564 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

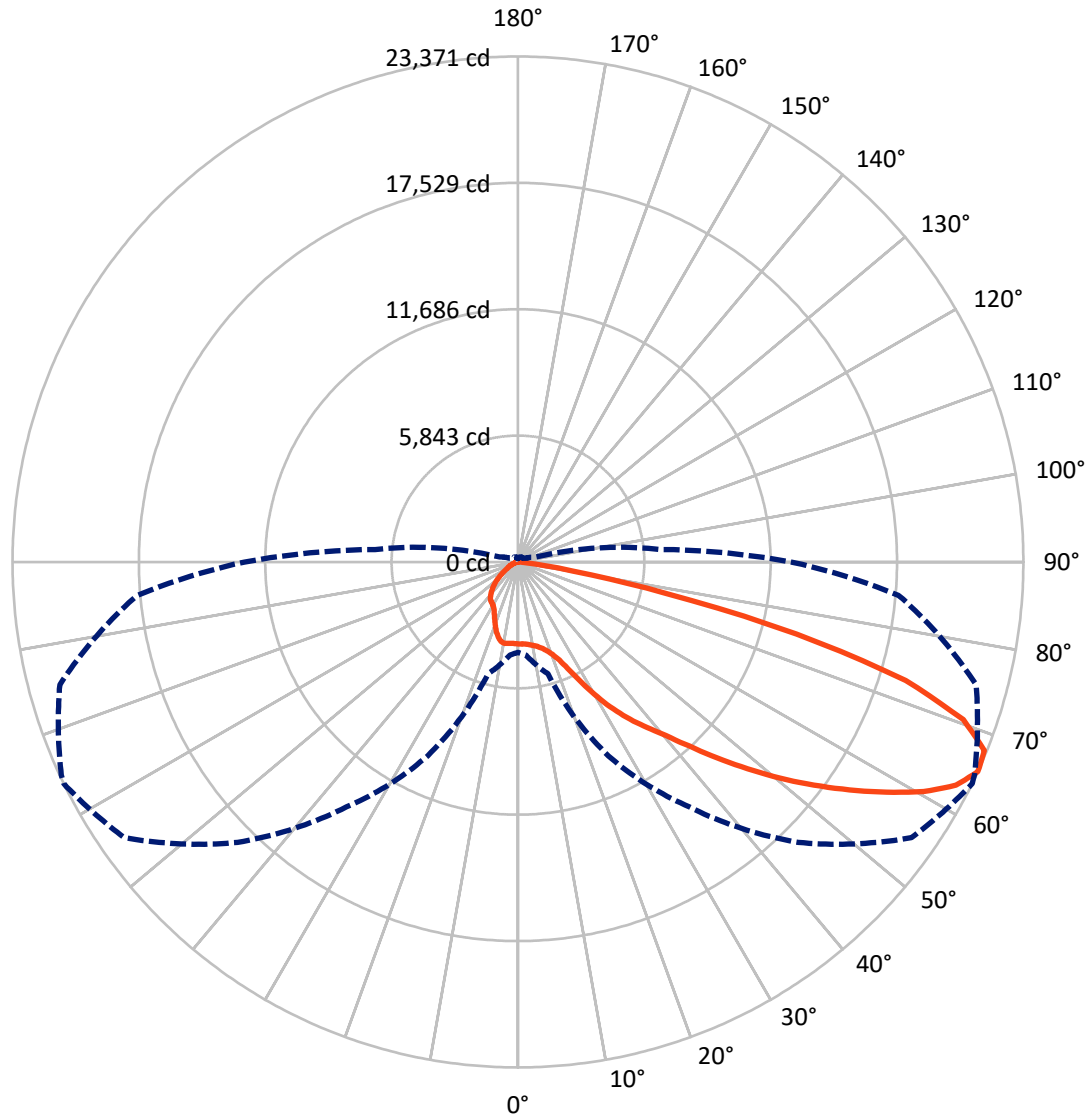
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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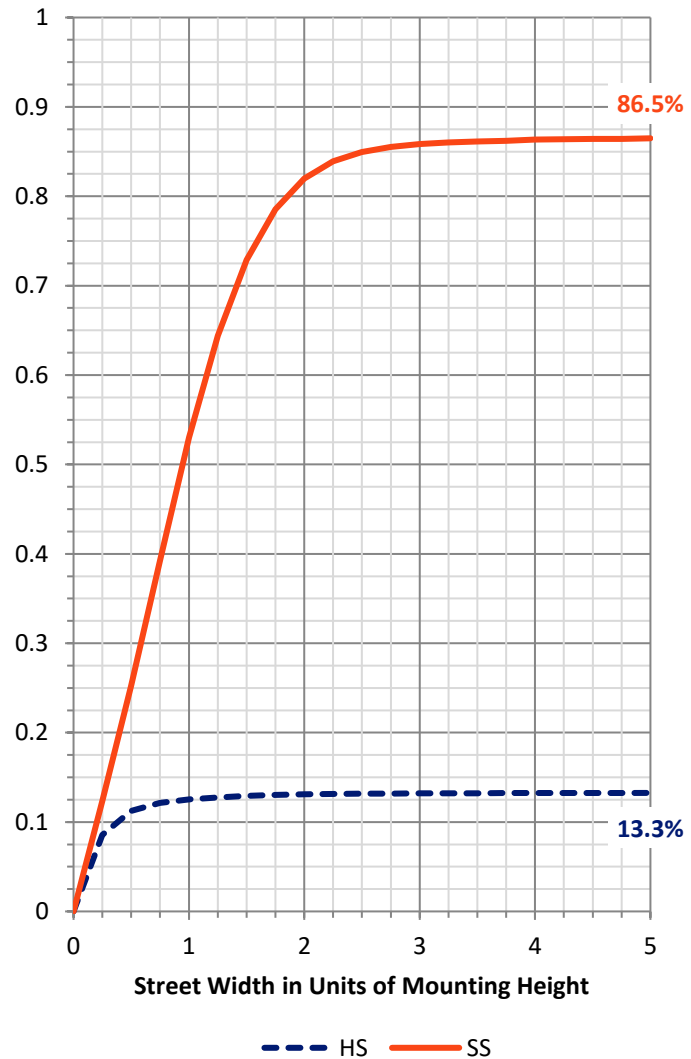
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4354.8   | 0.0    | 4354.8  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 28209.2  | 0.0    | 28209.2 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 32564.0  | 0.0    | 32564.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 349.4   | 1.1       |
| 10°-20°   | 947.8   | 2.9       |
| 20°-30°   | 1795.9  | 5.5       |
| 30°-40°   | 3634.2  | 11.2      |
| 40°-50°   | 6190.8  | 19.0      |
| 50°-60°   | 8419.0  | 25.9      |
| 60°-70°   | 7905.9  | 24.3      |
| 70°-80°   | 3167.4  | 9.7       |
| 80°-90°   | 153.4   | 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°    | 32564.0 | 100.0     |
| 0°-180°   | 32564.0 | 100.0     |

**Coefficient of Utilization**



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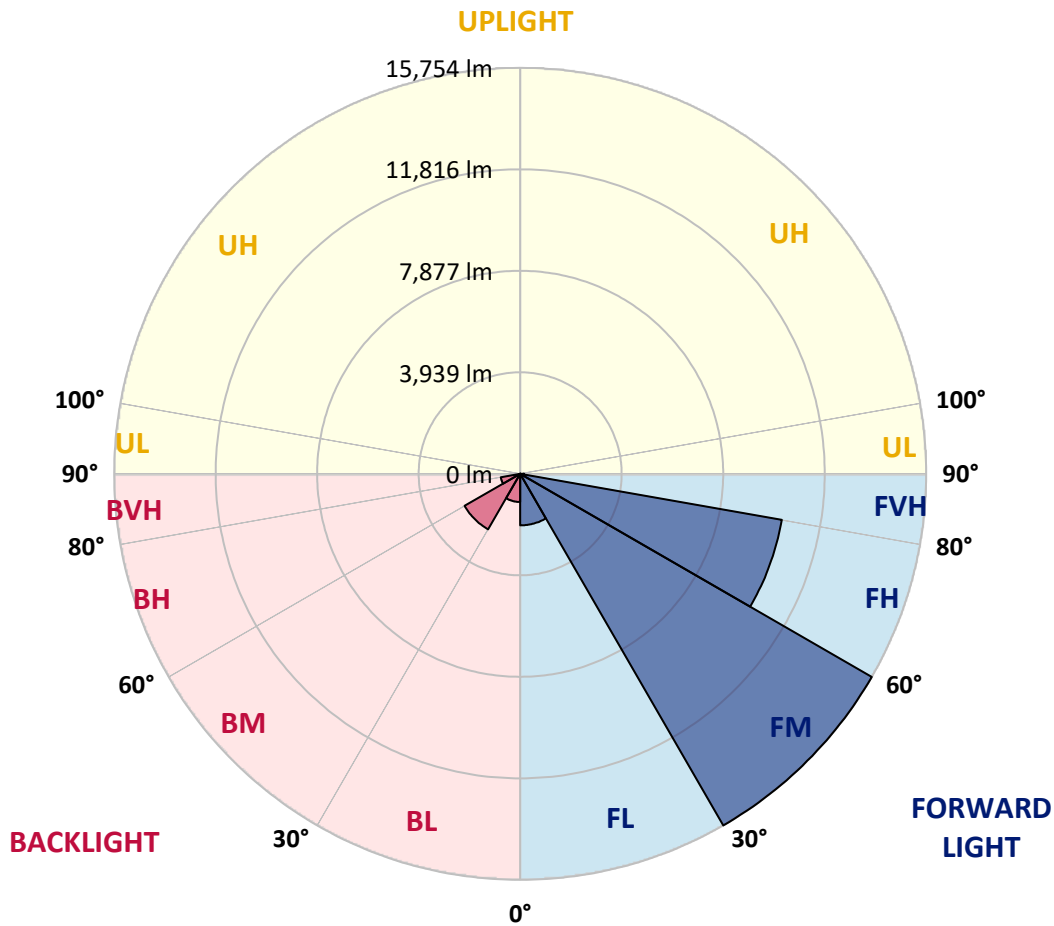
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1999.8  | 6.1       |                         |      |          |
| FM (30°-60°)   | 15754.4 | 48.4      |                         |      |          |
| FH (60°-80°)   | 10309.0 | 31.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 146.0   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 1093.4  | 3.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 2489.6  | 7.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 764.3   | 2.3       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 7.5     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3787.5  | 3787.5  | 3787.5  | 3787.5  | 3787.5  | 3787.5  | 3787.5  | 3787.5  | 3787.5  | 3787.5  |
| 2.5°  | 3774.4  | 3800.6  | 3794.1  | 3787.5  | 3785.3  | 3789.7  | 3791.9  | 3789.7  | 3789.7  | 3789.7  |
| 5°    | 3702.4  | 3724.2  | 3724.2  | 3739.5  | 3761.3  | 3787.5  | 3807.2  | 3811.5  | 3815.9  | 3822.5  |
| 7.5°  | 3564.9  | 3582.3  | 3595.4  | 3645.6  | 3700.2  | 3770.1  | 3829.0  | 3859.6  | 3863.9  | 3888.0  |
| 10°   | 3471.0  | 3492.8  | 3514.7  | 3567.0  | 3645.6  | 3750.4  | 3850.8  | 3925.1  | 3936.0  | 3992.7  |
| 12.5° | 3466.6  | 3488.5  | 3516.8  | 3573.6  | 3665.3  | 3776.6  | 3898.9  | 4005.8  | 4025.5  | 4108.4  |
| 15°   | 3512.5  | 3538.7  | 3564.9  | 3634.7  | 3733.0  | 3868.3  | 3999.3  | 4132.4  | 4152.1  | 4270.0  |
| 17.5° | 3606.3  | 3641.3  | 3660.9  | 3730.8  | 3835.6  | 3986.2  | 4158.6  | 4311.5  | 4328.9  | 4466.4  |
| 20°   | 3791.9  | 3833.4  | 3839.9  | 3896.7  | 3999.3  | 4160.8  | 4366.0  | 4556.0  | 4577.8  | 4735.0  |
| 22.5° | 4176.1  | 4235.0  | 4182.7  | 4211.0  | 4302.7  | 4464.3  | 4686.9  | 4927.1  | 4957.6  | 5136.6  |
| 25°   | 4852.8  | 4935.8  | 4800.5  | 4752.4  | 4791.7  | 4959.8  | 5239.2  | 5542.7  | 5577.6  | 5721.7  |
| 27.5° | 6182.3  | 6075.3  | 5870.1  | 5669.3  | 5551.4  | 5647.5  | 5961.8  | 6337.3  | 6381.0  | 6520.7  |
| 30°   | 7642.7  | 7548.9  | 7271.6  | 6826.3  | 6546.9  | 6531.6  | 6821.9  | 7241.1  | 7291.3  | 7424.4  |
| 32.5° | 9105.4  | 9015.9  | 8714.6  | 8166.7  | 7682.0  | 7441.9  | 7642.7  | 8107.7  | 8133.9  | 8219.1  |
| 35°   | 10544.0 | 10452.3 | 10151.0 | 9590.0  | 8994.0  | 8448.3  | 8409.0  | 8932.9  | 8941.6  | 9031.1  |
| 37.5° | 11991.3 | 11914.9 | 11594.0 | 11043.9 | 10456.6 | 9703.5  | 9338.9  | 9714.4  | 9725.3  | 9812.7  |
| 40°   | 13023.9 | 13056.6 | 12836.1 | 12410.4 | 11906.2 | 11083.2 | 10382.4 | 10546.1 | 10480.7 | 10626.9 |
| 42.5° | 13910.2 | 13975.7 | 13783.6 | 13569.6 | 13277.1 | 12552.3 | 11674.8 | 11646.4 | 11541.6 | 11620.2 |
| 45°   | 14676.4 | 14731.0 | 14558.5 | 14508.3 | 14501.8 | 13993.1 | 13087.2 | 12916.9 | 12770.6 | 12755.4 |
| 47.5° | 14958.0 | 15062.8 | 15137.0 | 15305.1 | 15632.6 | 15418.6 | 14547.6 | 14283.5 | 14119.7 | 13999.7 |
| 50°   | 15065.0 | 15176.3 | 15429.6 | 15918.5 | 16693.5 | 16785.2 | 16001.5 | 15704.6 | 15503.8 | 15285.5 |
| 52.5° | 14920.9 | 15119.6 | 15460.1 | 16283.1 | 17407.4 | 17881.1 | 17396.4 | 17136.7 | 16907.5 | 16551.6 |
| 55°   | 14071.7 | 14270.4 | 14966.8 | 16278.7 | 17763.2 | 18649.5 | 18715.0 | 18599.3 | 18341.7 | 17780.7 |
| 57.5° | 12281.6 | 12576.4 | 13678.8 | 15724.3 | 17756.6 | 19311.0 | 20007.3 | 20090.3 | 19802.1 | 18998.8 |
| 60°   | 9801.7  | 10201.2 | 11546.0 | 14495.2 | 17208.7 | 19669.0 | 21140.3 | 21555.1 | 21249.5 | 20199.4 |
| 62.5° | 6839.4  | 7302.2  | 8574.9  | 12569.8 | 15955.7 | 19411.4 | 21967.7 | 22733.9 | 22502.5 | 21273.5 |
| 65°   | 4171.7  | 4320.2  | 5346.2  | 9891.2  | 13825.0 | 18333.0 | 22223.1 | 23371.4 | 23295.0 | 21930.6 |
| 67.5° | 2779.0  | 2903.4  | 3198.1  | 6782.6  | 10731.7 | 16178.3 | 21611.9 | 23260.0 | 23281.9 | 21823.6 |
| 70°   | 1674.4  | 1781.3  | 1973.4  | 3944.7  | 6955.1  | 12805.6 | 19719.2 | 21841.1 | 21967.7 | 20393.7 |
| 72.5° | 689.8   | 761.9   | 936.5   | 1787.9  | 3602.0  | 8127.4  | 15702.4 | 18752.1 | 19046.8 | 17147.6 |
| 75°   | 390.8   | 427.9   | 550.1   | 897.2   | 1563.0  | 3787.5  | 9511.4  | 13312.0 | 13746.4 | 11818.8 |
| 77.5° | 259.8   | 277.2   | 355.8   | 580.7   | 879.8   | 1292.3  | 4064.8  | 6935.4  | 7765.0  | 6455.2  |
| 80°   | 174.6   | 189.9   | 244.5   | 388.6   | 571.9   | 554.5   | 1294.5  | 2569.4  | 3161.0  | 2217.9  |
| 82.5° | 117.9   | 120.1   | 174.6   | 255.4   | 362.4   | 268.5   | 382.0   | 799.0   | 1004.2  | 641.8   |
| 85°   | 67.7    | 65.5    | 128.8   | 148.4   | 161.5   | 111.3   | 115.7   | 240.1   | 314.4   | 270.7   |
| 87.5° | 8.7     | 13.1    | 50.2    | 39.3    | 21.8    | 24.0    | 24.0    | 41.5    | 61.1    | 65.5    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3787.5  | 0°    | 3787.5  | 3787.5  | 3787.5 | 3787.5 | 3787.5 | 3787.5 | 3787.5 | 3787.5 | 3787.5 | 3787.5 |
| 3791.9  | 2.5°  | 3791.9  | 3789.7  | 3783.2 | 3776.6 | 3761.3 | 3752.6 | 3757.0 | 3752.6 | 3750.4 | 3752.6 |
| 3820.3  | 5°    | 3820.3  | 3813.7  | 3796.3 | 3774.4 | 3743.9 | 3706.8 | 3682.7 | 3647.8 | 3615.1 | 3595.4 |
| 3896.7  | 7.5°  | 3896.7  | 3890.1  | 3866.1 | 3805.0 | 3706.8 | 3551.8 | 3409.9 | 3285.4 | 3191.6 | 3137.0 |
| 4018.9  | 10°   | 4018.9  | 4008.0  | 3970.9 | 3835.6 | 3578.0 | 3239.6 | 2958.0 | 2724.4 | 2571.6 | 2499.6 |
| 4163.0  | 12.5° | 4163.0  | 4149.9  | 4084.4 | 3807.2 | 3333.5 | 2805.2 | 2416.6 | 2156.8 | 2014.9 | 1951.6 |
| 4328.9  | 15°   | 4333.3  | 4315.8  | 4187.0 | 3671.8 | 2977.6 | 2324.9 | 1969.1 | 1774.8 | 1683.1 | 1626.3 |
| 4540.7  | 17.5° | 4545.0  | 4514.5  | 4263.4 | 3468.8 | 2591.2 | 1958.2 | 1694.0 | 1547.8 | 1467.0 | 1412.4 |
| 4817.9  | 20°   | 4820.1  | 4769.9  | 4324.6 | 3226.5 | 2235.4 | 1726.8 | 1508.5 | 1386.2 | 1325.1 | 1277.1 |
| 5210.9  | 22.5° | 5204.3  | 5132.3  | 4398.8 | 2964.5 | 1984.4 | 1567.4 | 1370.9 | 1281.4 | 1231.2 | 1176.6 |
| 5758.8  | 25°   | 5680.2  | 5595.1  | 4490.5 | 2722.2 | 1811.9 | 1429.9 | 1270.5 | 1196.3 | 1137.4 | 1074.0 |
| 6477.0  | 27.5° | 6346.0  | 6193.2  | 4599.6 | 2523.6 | 1663.5 | 1312.0 | 1178.8 | 1095.9 | 1028.2 | 975.8  |
| 7291.3  | 30°   | 7088.3  | 6837.2  | 4695.7 | 2403.5 | 1528.1 | 1202.8 | 1058.8 | 975.8  | 912.5  | 875.4  |
| 8022.6  | 32.5° | 7791.2  | 7450.6  | 4759.0 | 2351.1 | 1405.9 | 1078.4 | 927.8  | 838.3  | 790.3  | 779.3  |
| 8738.6  | 35°   | 8454.8  | 8005.1  | 4752.4 | 2300.9 | 1296.7 | 954.0  | 799.0  | 707.3  | 670.2  | 676.7  |
| 9509.2  | 37.5° | 9218.9  | 8596.7  | 4706.6 | 2222.3 | 1207.2 | 840.5  | 687.6  | 606.9  | 574.1  | 576.3  |
| 10445.7 | 40°   | 10107.4 | 9280.0  | 4678.2 | 2073.9 | 1109.0 | 735.7  | 596.0  | 530.5  | 506.5  | 497.7  |
| 11432.5 | 42.5° | 11054.8 | 9941.5  | 4682.6 | 1905.8 | 986.7  | 641.8  | 532.7  | 478.1  | 456.3  | 449.7  |
| 12530.5 | 45°   | 12006.6 | 10572.3 | 4689.1 | 1731.1 | 857.9  | 569.8  | 486.8  | 441.0  | 427.9  | 419.1  |
| 13643.8 | 47.5° | 12901.6 | 11109.4 | 4566.9 | 1543.4 | 731.3  | 515.2  | 449.7  | 419.1  | 408.2  | 397.3  |
| 14761.5 | 50°   | 13735.5 | 11467.4 | 4272.2 | 1325.1 | 630.9  | 471.5  | 421.3  | 399.5  | 388.6  | 377.7  |
| 15774.5 | 52.5° | 14383.9 | 11524.1 | 3785.3 | 1100.2 | 561.0  | 438.8  | 403.9  | 384.2  | 371.1  | 360.2  |
| 16593.1 | 55°   | 14672.0 | 11168.3 | 3093.3 | 890.7  | 506.5  | 410.4  | 386.4  | 366.7  | 351.5  | 340.6  |
| 17237.1 | 57.5° | 14597.8 | 10419.5 | 2412.2 | 716.0  | 454.1  | 382.0  | 364.6  | 351.5  | 334.0  | 316.5  |
| 17758.8 | 60°   | 14233.3 | 9417.5  | 1818.5 | 596.0  | 406.0  | 351.5  | 340.6  | 329.6  | 305.6  | 279.4  |
| 17959.7 | 62.5° | 13602.4 | 8157.9  | 1296.7 | 493.4  | 353.6  | 316.5  | 312.2  | 303.4  | 268.5  | 220.5  |
| 17662.8 | 65°   | 12637.5 | 6627.6  | 873.2  | 410.4  | 303.4  | 277.2  | 279.4  | 264.1  | 218.3  | 163.7  |
| 16575.6 | 67.5° | 11227.2 | 4846.3  | 558.9  | 336.2  | 253.2  | 231.4  | 233.6  | 224.9  | 185.6  | 139.7  |
| 14514.9 | 70°   | 9430.6  | 3209.0  | 364.6  | 255.4  | 203.0  | 179.0  | 192.1  | 194.3  | 157.2  | 113.5  |
| 11139.9 | 72.5° | 6913.6  | 1894.9  | 255.4  | 189.9  | 148.4  | 124.4  | 157.2  | 161.5  | 126.6  | 85.1   |
| 6701.9  | 75°   | 3940.3  | 899.4   | 192.1  | 137.5  | 91.7   | 87.3   | 122.2  | 122.2  | 87.3   | 56.8   |
| 2901.2  | 77.5° | 1654.7  | 375.5   | 135.3  | 89.5   | 52.4   | 50.2   | 83.0   | 76.4   | 43.7   | 26.2   |
| 707.3   | 80°   | 478.1   | 168.1   | 72.0   | 43.7   | 21.8   | 19.6   | 32.7   | 24.0   | 10.9   | 4.4    |
| 268.5   | 82.5° | 187.7   | 74.2    | 28.4   | 17.5   | 8.7    | 8.7    | 4.4    | 0.0    | 0.0    | 0.0    |
| 152.8   | 85°   | 111.3   | 30.6    | 13.1   | 6.5    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.7    | 87.5° | 28.4    | 6.5     | 4.4    | 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> |
| 3787.5      |
| 3761.3      |
| 3599.8      |
| 3139.2      |
| 2493.0      |
| 1945.1      |
| 1628.5      |
| 1408.0      |
| 1268.3      |
| 1167.9      |
| 1067.5      |
| 964.9       |
| 868.8       |
| 785.9       |
| 676.7       |
| 585.0       |
| 495.5       |
| 447.5       |
| 419.1       |
| 397.3       |
| 377.7       |
| 358.0       |
| 338.4       |
| 314.4       |
| 275.1       |
| 216.1       |
| 159.4       |
| 133.2       |
| 109.2       |
| 80.8        |
| 52.4        |
| 26.2        |
| 4.4         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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