

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: P944727

Luminaire Tested: **GALN-SB9D-760-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-760-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

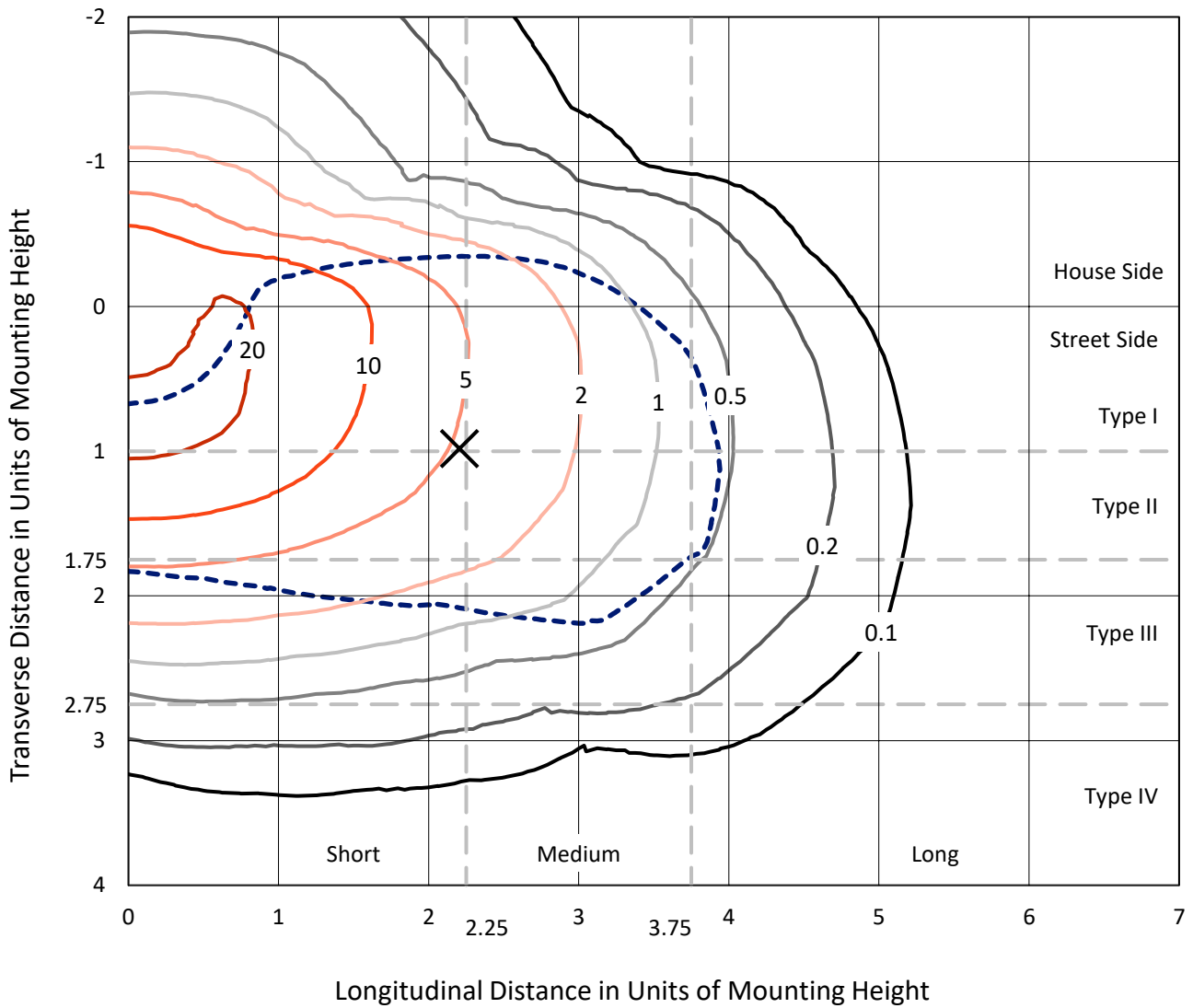
Lumens per Lamp: N/A  
Luminaire Lumens: 98127 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

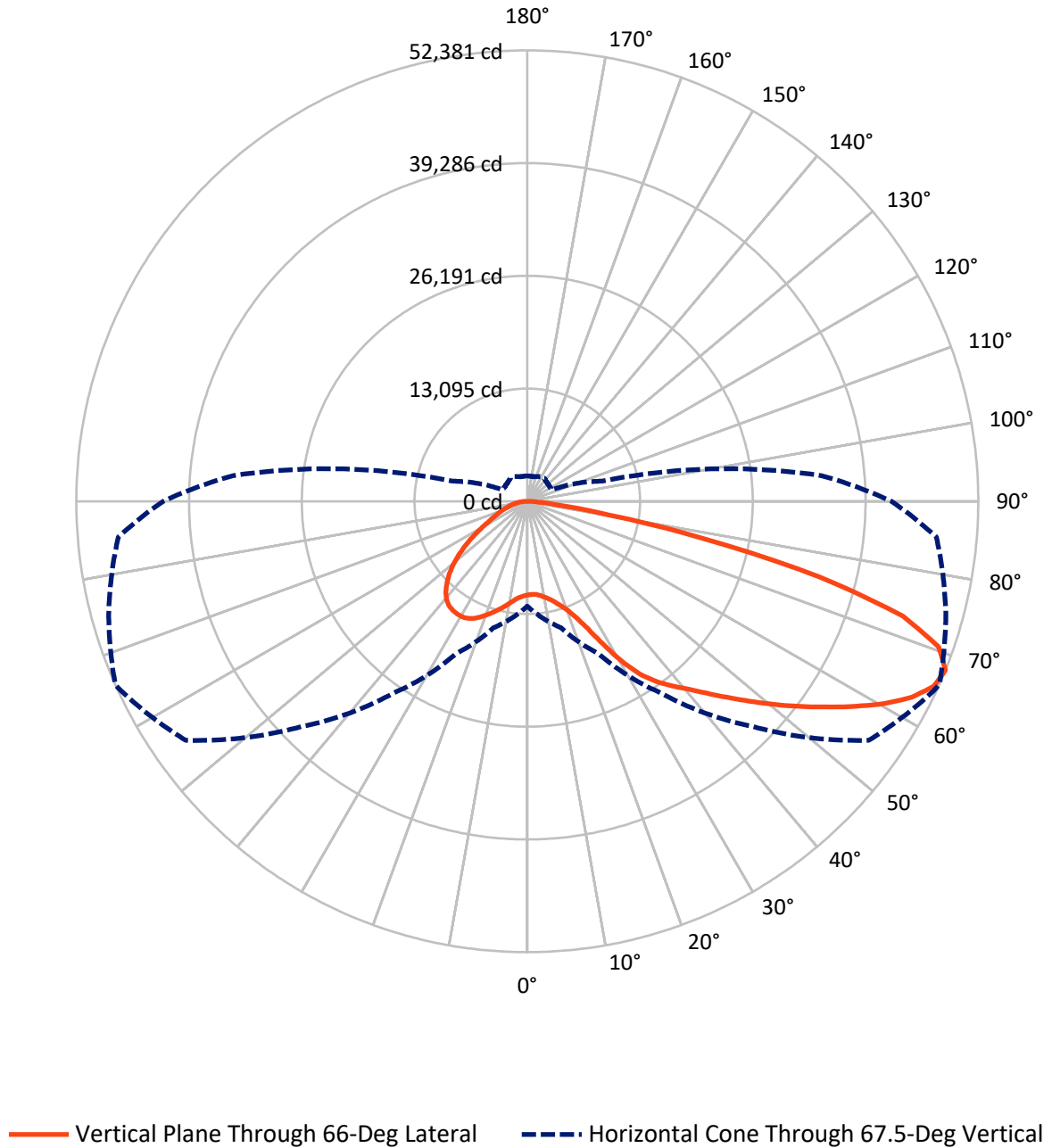
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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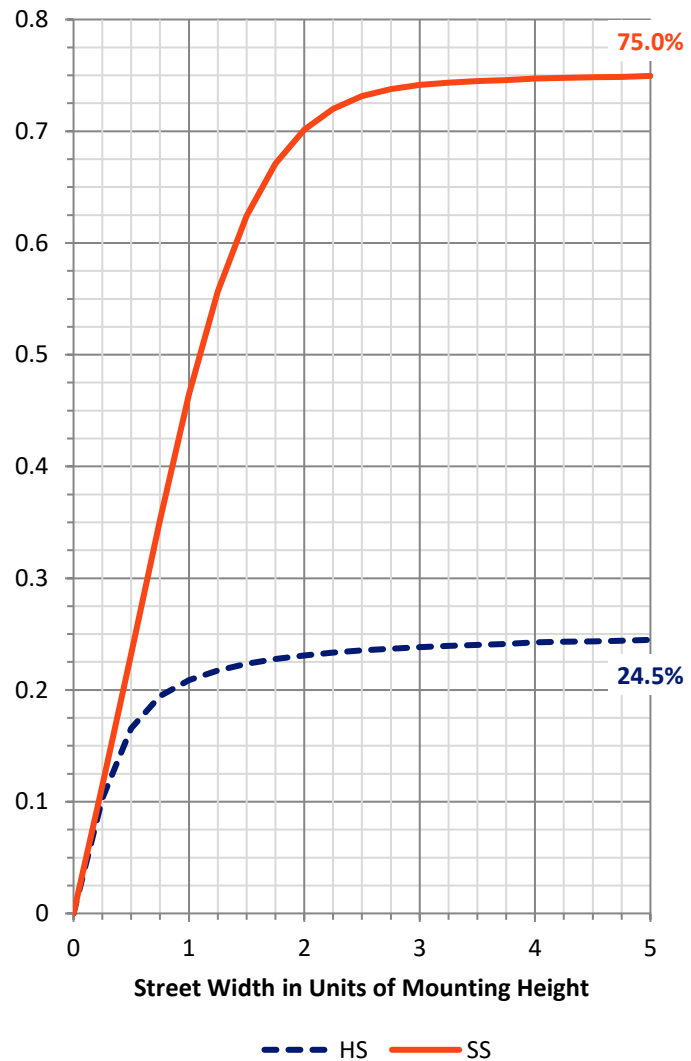
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 24399.0  | 0.0    | 24399.0 |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 73728.0  | 0.0    | 73728.0 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 98127.0  | 0.0    | 98127.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1079.1  | 1.1       |
| 10°-20°   | 3565.1  | 3.6       |
| 20°-30°   | 6871.5  | 7.0       |
| 30°-40°   | 12048.3 | 12.3      |
| 40°-50°   | 17911.8 | 18.3      |
| 50°-60°   | 22705.0 | 23.1      |
| 60°-70°   | 22216.3 | 22.6      |
| 70°-80°   | 10597.4 | 10.8      |
| 80°-90°   | 1132.6  | 1.2       |
| 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°    | 98127.0 | 100.0     |
| 0°-180°   | 98127.0 | 100.0     |

**Coefficient of Utilization**



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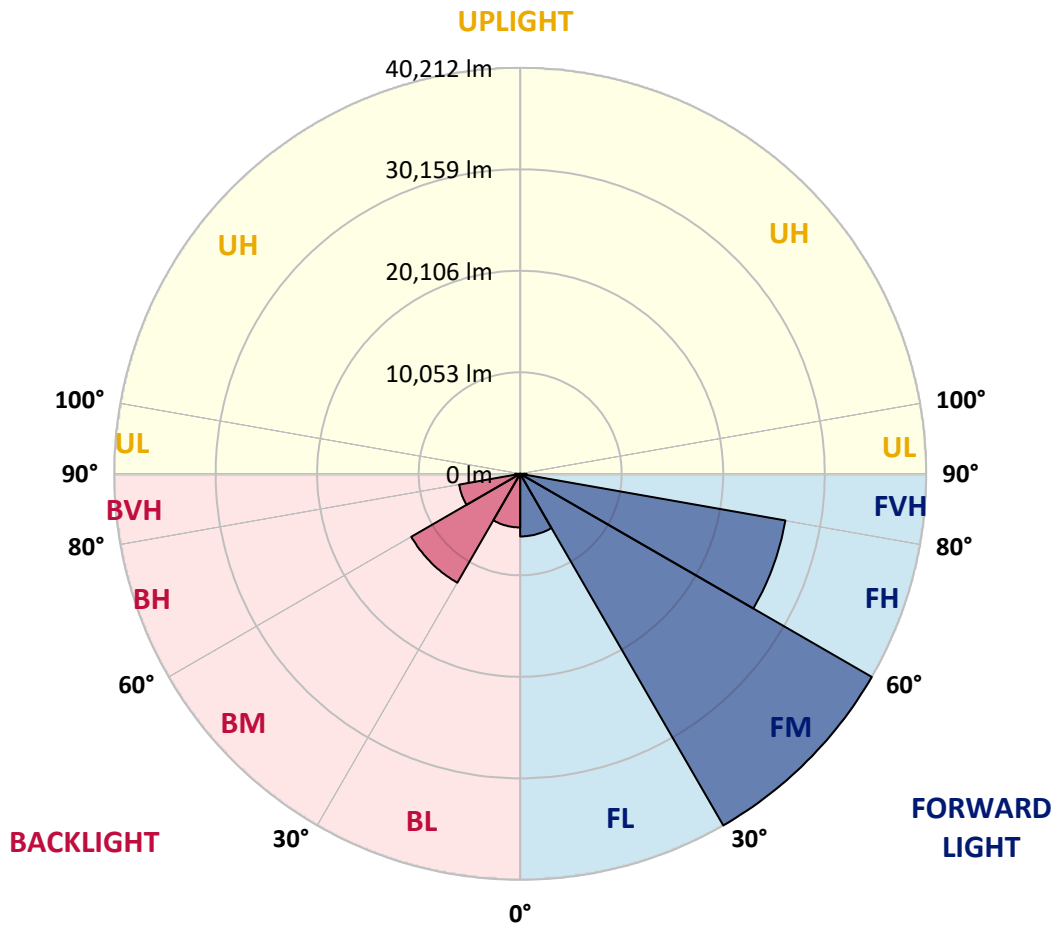
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 6200.7  | 6.3       |                         |      |        |
| FM (30°-60°)   | 40211.6 | 41.0      |                         |      |        |
| FH (60°-80°)   | 26673.6 | 27.2      |                         |      | G5     |
| FVH (80°-90°)  | 642.1   | 0.7       |                         |      | G4/750 |
| BL (0°-30°)    | 5315.0  | 5.4       | B5                      |      |        |
| BM (30°-60°)   | 12453.5 | 12.7      | B5                      |      |        |
| BH (60°-80°)   | 6140.0  | 6.3       | B5                      |      | G5     |
| BVH (80°-90°)  | 490.4   | 0.5       |                         |      | G3/500 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 |
| 2.5°  | 10770.2 | 10832.0 | 10816.6 | 10790.8 | 10785.6 | 10795.9 | 10811.4 | 10826.9 | 10821.7 | 10847.5 |
| 5°    | 10739.2 | 10801.1 | 10795.9 | 10795.9 | 10816.6 | 10857.8 | 10883.6 | 10909.4 | 10883.6 | 10914.5 |
| 7.5°  | 10759.8 | 10806.2 | 10826.9 | 10847.5 | 10899.0 | 10976.4 | 11038.3 | 11095.0 | 11064.0 | 11100.1 |
| 10°   | 11022.8 | 11058.9 | 11079.5 | 11079.5 | 11115.6 | 11203.2 | 11265.1 | 11368.2 | 11342.4 | 11399.1 |
| 12.5° | 11502.3 | 11538.3 | 11538.3 | 11517.7 | 11543.5 | 11600.2 | 11620.8 | 11734.3 | 11687.9 | 11780.7 |
| 15°   | 12090.0 | 12162.2 | 12105.5 | 12069.4 | 12079.7 | 12136.4 | 12131.2 | 12218.9 | 12172.5 | 12249.8 |
| 17.5° | 12739.6 | 12832.4 | 12739.6 | 12734.5 | 12713.8 | 12775.7 | 12780.9 | 12858.2 | 12775.7 | 12832.4 |
| 20°   | 13507.8 | 13636.7 | 13559.4 | 13585.1 | 13538.7 | 13564.5 | 13590.3 | 13703.7 | 13574.8 | 13616.1 |
| 22.5° | 14590.5 | 14745.2 | 14662.7 | 14760.6 | 14729.7 | 14709.1 | 14703.9 | 14905.0 | 14703.9 | 14719.4 |
| 25°   | 16168.1 | 16353.7 | 16209.4 | 16343.4 | 16343.4 | 16410.4 | 16487.8 | 16745.6 | 16410.4 | 16312.5 |
| 27.5° | 18498.5 | 18684.1 | 18400.5 | 18483.0 | 18457.2 | 18622.2 | 18539.7 | 19179.0 | 18818.1 | 18658.3 |
| 30°   | 21303.2 | 21633.1 | 21096.9 | 21076.3 | 21050.5 | 21313.5 | 21432.0 | 21854.8 | 21488.8 | 21328.9 |
| 32.5° | 24334.7 | 24680.1 | 24040.8 | 23855.2 | 23757.2 | 23917.1 | 23819.1 | 24159.4 | 23906.8 | 23659.3 |
| 35°   | 27541.5 | 27881.8 | 27273.4 | 26912.5 | 26520.7 | 26185.6 | 25835.0 | 25922.6 | 25685.5 | 25309.1 |
| 37.5° | 30573.0 | 31196.8 | 30552.4 | 30165.7 | 29443.9 | 28789.2 | 27809.6 | 27402.3 | 27180.6 | 26835.2 |
| 40°   | 33661.3 | 34017.0 | 33527.2 | 33197.2 | 32413.6 | 31387.6 | 29820.3 | 28959.3 | 28660.3 | 28325.2 |
| 42.5° | 35934.9 | 36275.2 | 36012.2 | 35785.4 | 35171.9 | 33980.9 | 31954.7 | 30877.2 | 30444.1 | 30067.8 |
| 45°   | 37739.4 | 37992.0 | 37827.0 | 37909.5 | 37646.6 | 36491.7 | 34166.5 | 32934.3 | 32485.8 | 32026.9 |
| 47.5° | 38466.3 | 38734.4 | 38997.4 | 39487.1 | 39935.7 | 39085.0 | 36543.3 | 35161.5 | 34687.2 | 34218.1 |
| 50°   | 38383.8 | 38657.1 | 39420.1 | 40461.6 | 41853.6 | 41570.0 | 39048.9 | 37533.1 | 37094.9 | 36558.7 |
| 52.5° | 37723.9 | 38033.2 | 39012.8 | 40745.1 | 42962.0 | 43431.2 | 41601.0 | 39982.1 | 39569.6 | 38930.3 |
| 55°   | 35991.6 | 36177.2 | 37646.6 | 40100.7 | 43225.0 | 44730.4 | 44101.4 | 42590.8 | 42178.4 | 41286.5 |
| 57.5° | 32779.6 | 33047.7 | 35187.3 | 38363.2 | 42565.1 | 45612.1 | 46297.8 | 45333.6 | 44936.7 | 43652.9 |
| 60°   | 28588.1 | 29016.0 | 31464.9 | 35445.1 | 40884.3 | 45606.9 | 48293.0 | 48030.1 | 47700.1 | 45983.3 |
| 62.5° | 23844.9 | 24339.8 | 26696.0 | 31320.6 | 37945.6 | 44312.8 | 49540.7 | 50288.2 | 50118.1 | 48133.2 |
| 65°   | 18312.9 | 18653.1 | 20999.0 | 25984.5 | 33372.5 | 41533.9 | 49685.0 | 51829.8 | 51860.7 | 49767.5 |
| 67.5° | 12193.1 | 13172.7 | 15209.2 | 19498.7 | 27247.6 | 36991.8 | 48416.7 | 52082.4 | 52381.4 | 50329.5 |
| 70°   | 5949.6  | 7238.5  | 9233.8  | 12672.6 | 19498.7 | 30026.5 | 45101.6 | 50009.8 | 50674.9 | 48690.0 |
| 72.5° | 2469.6  | 2887.2  | 3975.0  | 6253.8  | 11192.9 | 20261.7 | 38440.5 | 44390.2 | 45622.4 | 43142.5 |
| 75°   | 1665.3  | 1804.5  | 2273.6  | 3206.8  | 5098.9  | 9991.7  | 27721.9 | 33099.3 | 35084.2 | 32583.7 |
| 77.5° | 1283.8  | 1371.4  | 1655.0  | 2242.7  | 3031.5  | 3779.1  | 14838.0 | 19947.2 | 20973.2 | 19416.2 |
| 80°   | 1010.5  | 1077.5  | 1237.4  | 1634.3  | 2149.9  | 2021.0  | 5057.7  | 9037.9  | 9630.8  | 8078.9  |
| 82.5° | 876.5   | 902.2   | 886.8   | 1108.5  | 1428.1  | 1180.6  | 1660.1  | 3335.7  | 3681.1  | 2670.6  |
| 85°   | 634.1   | 706.3   | 737.3   | 685.7   | 757.9   | 598.1   | 680.5   | 1180.6  | 1299.2  | 1160.0  |
| 87.5° | 257.8   | 381.5   | 469.2   | 443.4   | 278.4   | 170.1   | 211.4   | 345.4   | 397.0   | 433.1   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10883.6 | 0°    | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 |
| 10888.7 | 2.5°  | 10893.9 | 10930.0 | 10955.8 | 10986.7 | 11007.3 | 11038.3 | 11100.1 | 11136.2 | 11141.4 | 11167.1 |
| 10971.2 | 5°    | 10991.8 | 11043.4 | 11100.1 | 11182.6 | 11275.4 | 11352.7 | 11471.3 | 11553.8 | 11584.7 | 11610.5 |
| 11172.3 | 7.5°  | 11203.2 | 11275.4 | 11378.5 | 11522.9 | 11656.9 | 11760.0 | 11904.4 | 12002.4 | 12100.3 | 12136.4 |
| 11491.9 | 10°   | 11517.7 | 11620.8 | 11770.4 | 11966.3 | 12110.6 | 12244.7 | 12394.2 | 12476.7 | 12574.6 | 12615.9 |
| 11873.5 | 12.5° | 11909.6 | 12017.8 | 12213.7 | 12487.0 | 12621.0 | 12713.8 | 12765.4 | 12744.8 | 12765.4 | 12801.5 |
| 12332.3 | 15°   | 12358.1 | 12476.7 | 12698.4 | 12992.2 | 13085.0 | 13002.6 | 12889.1 | 12786.0 | 12770.5 | 12780.9 |
| 12889.1 | 17.5° | 12889.1 | 12976.8 | 13234.6 | 13482.0 | 13415.0 | 13074.7 | 12827.3 | 12662.3 | 12579.8 | 12554.0 |
| 13600.6 | 20°   | 13631.5 | 13631.5 | 13842.9 | 13997.6 | 13549.1 | 12971.6 | 12584.9 | 12316.9 | 12146.7 | 12074.5 |
| 14569.9 | 22.5° | 14533.8 | 14451.3 | 14585.3 | 14477.1 | 13523.3 | 12682.9 | 12146.7 | 11682.7 | 11424.9 | 11321.8 |
| 15925.8 | 25°   | 15678.3 | 15580.4 | 15544.3 | 14874.1 | 13337.7 | 12224.1 | 11352.7 | 10790.8 | 10563.9 | 10507.2 |
| 17879.8 | 27.5° | 17405.5 | 17158.0 | 16688.8 | 15090.6 | 12997.4 | 11502.3 | 10424.7 | 9904.0  | 9775.1  | 9780.3  |
| 20390.6 | 30°   | 19704.9 | 19210.0 | 18060.2 | 15126.7 | 12440.6 | 10481.4 | 9476.1  | 9104.9  | 9043.0  | 9068.8  |
| 22499.3 | 32.5° | 21834.2 | 21365.0 | 19462.6 | 14961.7 | 11584.7 | 9481.2  | 8625.4  | 8377.9  | 8285.1  | 8316.1  |
| 24107.8 | 35°   | 23504.6 | 23375.7 | 20761.8 | 14729.7 | 10533.0 | 8542.9  | 7862.4  | 7651.0  | 7470.5  | 7429.3  |
| 25623.6 | 37.5° | 25082.2 | 25030.7 | 21736.2 | 14404.9 | 9491.6  | 7877.8  | 7248.8  | 6970.4  | 6707.5  | 6563.1  |
| 27299.2 | 40°   | 26814.5 | 26763.0 | 22375.5 | 13904.8 | 8568.7  | 7300.4  | 6697.2  | 6331.1  | 6006.3  | 5743.4  |
| 29196.5 | 42.5° | 28763.4 | 28459.2 | 22679.7 | 13188.2 | 7785.0  | 6810.6  | 6248.7  | 5753.7  | 5325.8  | 5083.5  |
| 31341.2 | 45°   | 30892.7 | 30207.0 | 22674.6 | 12275.6 | 7125.1  | 6362.1  | 5769.2  | 5068.0  | 4671.0  | 4444.2  |
| 33542.7 | 47.5° | 33150.8 | 31877.4 | 22396.2 | 11265.1 | 6485.8  | 5867.1  | 5026.8  | 4490.6  | 4227.6  | 4088.4  |
| 35934.9 | 50°   | 35481.2 | 33439.6 | 21921.8 | 10105.1 | 5831.0  | 5305.2  | 4562.8  | 4196.7  | 3995.6  | 3866.7  |
| 38306.5 | 52.5° | 37672.3 | 34857.4 | 21349.6 | 8790.4  | 5166.0  | 4758.7  | 4356.5  | 4073.0  | 3861.6  | 3717.2  |
| 40605.9 | 55°   | 39708.8 | 36079.3 | 20540.1 | 7444.8  | 4624.6  | 4392.6  | 4258.6  | 4021.4  | 3779.1  | 3609.0  |
| 42941.4 | 57.5° | 41518.5 | 36873.2 | 19142.9 | 6181.6  | 4237.9  | 4140.0  | 4155.5  | 3933.8  | 3655.4  | 3511.0  |
| 45240.8 | 60°   | 43023.9 | 37455.8 | 17075.5 | 5011.3  | 3923.5  | 3892.5  | 3995.6  | 3768.8  | 3444.0  | 3279.0  |
| 47184.5 | 62.5° | 43926.2 | 37445.5 | 14538.9 | 4103.9  | 3655.4  | 3665.7  | 3784.2  | 3562.6  | 3232.6  | 3077.9  |
| 48200.2 | 65°   | 43848.8 | 36527.8 | 11754.9 | 3511.0  | 3397.6  | 3407.9  | 3562.6  | 3335.7  | 3057.3  | 2964.5  |
| 47689.8 | 67.5° | 42297.0 | 34290.2 | 9017.2  | 3124.3  | 3114.0  | 3160.4  | 3340.9  | 3181.0  | 2949.0  | 2938.7  |
| 44647.9 | 70°   | 38095.1 | 29645.0 | 6496.1  | 2815.0  | 2820.1  | 2887.2  | 3124.3  | 3083.1  | 2892.3  | 2912.9  |
| 37538.3 | 72.5° | 30547.2 | 22602.4 | 4361.7  | 2490.2  | 2495.3  | 2603.6  | 2918.1  | 3005.7  | 2835.6  | 3108.9  |
| 26634.1 | 75°   | 20344.2 | 14095.6 | 2804.7  | 2144.8  | 2149.9  | 2289.1  | 2737.7  | 2856.2  | 2680.9  | 3098.5  |
| 13858.4 | 77.5° | 9775.1  | 6336.3  | 2031.3  | 1804.5  | 1804.5  | 1933.4  | 2366.4  | 2557.2  | 2284.0  | 2407.7  |
| 4454.5  | 80°   | 3377.0  | 2381.9  | 1598.3  | 1453.9  | 1423.0  | 1510.6  | 1995.2  | 2216.9  | 1969.5  | 1814.8  |
| 1453.9  | 82.5° | 1330.2  | 1237.4  | 1283.8  | 1129.1  | 1026.0  | 1082.7  | 1551.9  | 1830.3  | 1448.7  | 1309.5  |
| 819.7   | 85°   | 763.0   | 804.3   | 907.4   | 747.6   | 592.9   | 665.1   | 1139.4  | 1314.7  | 1093.0  | 964.1   |
| 268.1   | 87.5° | 206.2   | 283.6   | 417.6   | 386.7   | 268.1   | 283.6   | 541.3   | 726.9   | 629.0   | 484.6   |
| 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°  
10883.6  
11162.0  
11605.4  
12141.6  
12636.5  
12811.8  
12817.0  
12590.1  
12059.1  
11306.3  
10517.5  
9795.7  
9156.4  
8357.3  
7460.2  
6568.3  
5769.2  
5098.9  
4433.9  
4057.5  
3820.3  
3655.4  
3541.9  
3418.2  
3206.8  
3031.5  
2959.3  
2954.2  
2907.8  
3150.1  
3124.3  
2206.6  
1701.4  
1304.4  
984.7  
500.1  
0.0

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