

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: P956561

Luminaire Tested: **GALN-SB9A-935-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956561  
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-SB9A-935-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

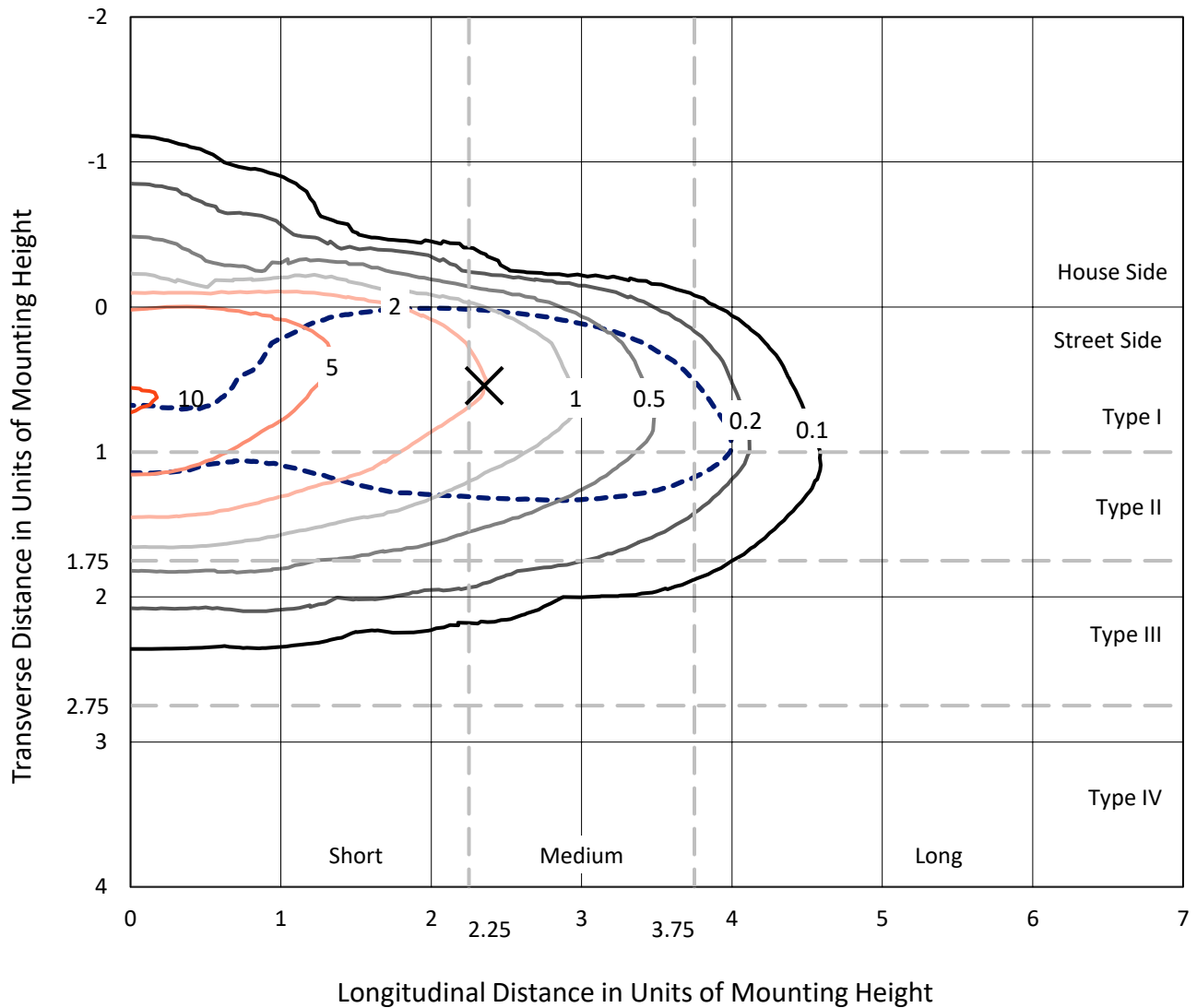
Lumens per Lamp: N/A  
Luminaire Lumens: 24065 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

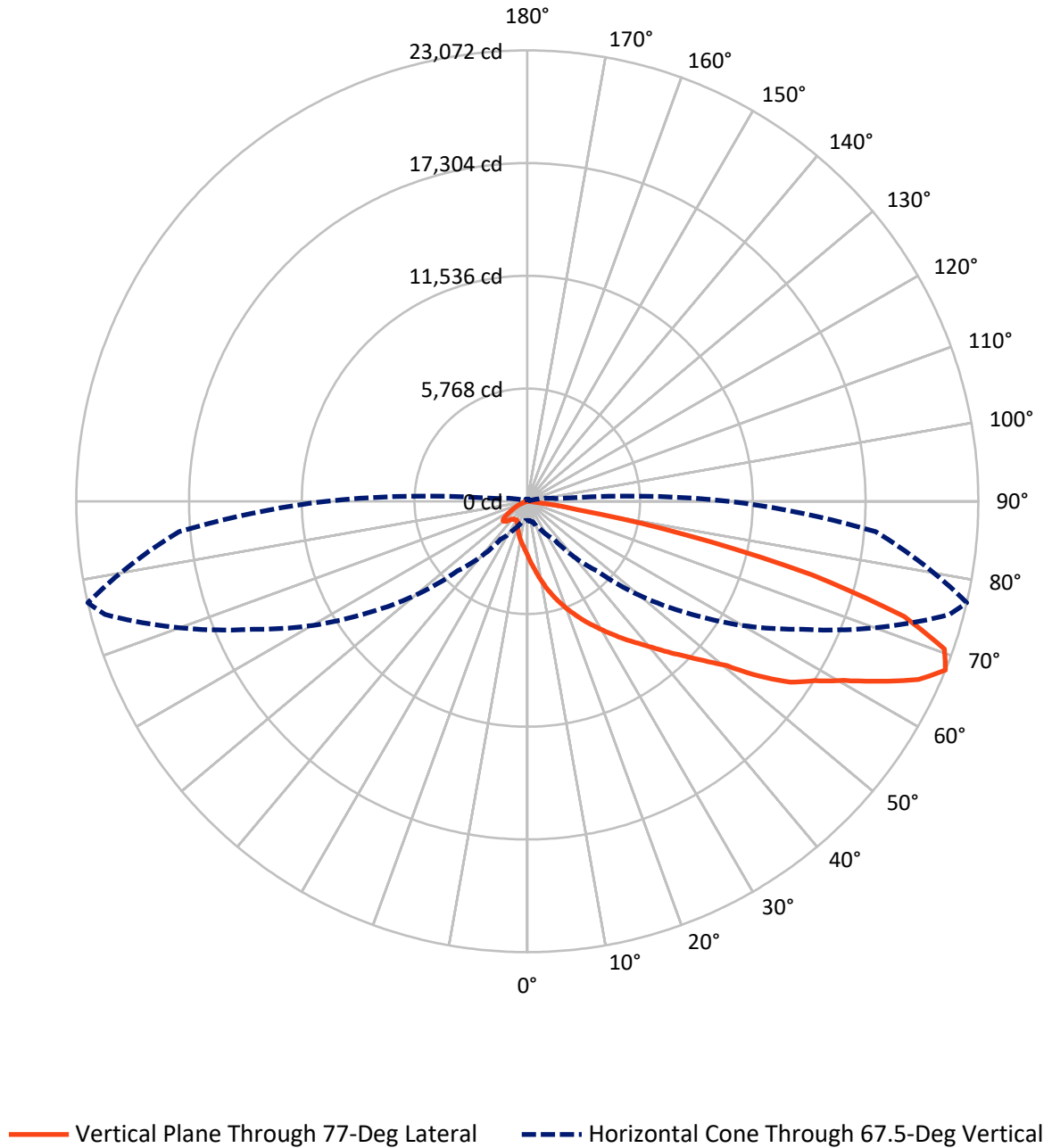
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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    | 1770.5   | 0.0    | 1770.5  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 22294.5  | 0.0    | 22294.5 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 24065.0  | 0.0    | 24065.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 283.2   | 1.2       |
| 10°-20°   | 991.9   | 4.1       |
| 20°-30°   | 1914.0  | 8.0       |
| 30°-40°   | 3322.9  | 13.8      |
| 40°-50°   | 4824.6  | 20.0      |
| 50°-60°   | 5540.5  | 23.0      |
| 60°-70°   | 4810.2  | 20.0      |
| 70°-80°   | 2265.6  | 9.4       |
| 80°-90°   | 112.0   | 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°    | 24065.0 | 100.0     |
| 0°-180°   | 24065.0 | 100.0     |

**Coefficient of Utilization**



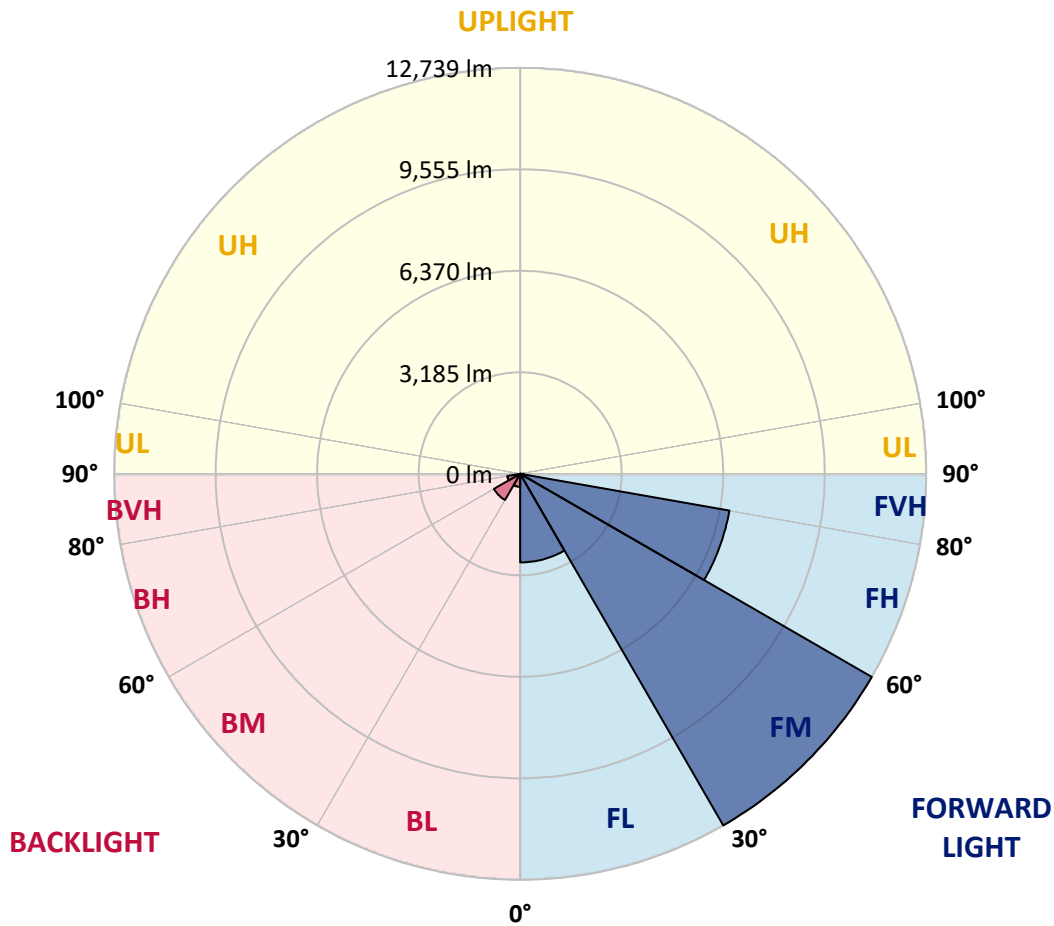
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2779.2  | 11.5      |                         |      |         |
| FM (30°-60°)   | 12739.4 | 52.9      |                         |      |         |
| FH (60°-80°)   | 6665.9  | 27.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 110.0   | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 409.9   | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 948.6   | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 409.9   | 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°    | 2775.0  | 2775.0  | 2775.0  | 2775.0  | 2775.0  | 2775.0  | 2775.0  | 2775.0  | 2775.0  | 2775.0  |
| 2.5°  | 3842.0  | 3865.9  | 3831.6  | 3765.8  | 3667.2  | 3602.9  | 3446.0  | 3298.1  | 3133.7  | 3081.4  |
| 5°    | 4683.4  | 4704.3  | 4665.4  | 4593.7  | 4462.2  | 4336.7  | 4130.4  | 3821.1  | 3499.8  | 3396.7  |
| 7.5°  | 5306.5  | 5318.5  | 5303.5  | 5237.8  | 5112.2  | 4970.3  | 4740.1  | 4374.0  | 3897.3  | 3783.7  |
| 10°   | 5754.8  | 5793.7  | 5789.2  | 5763.8  | 5680.1  | 5565.0  | 5320.0  | 4903.0  | 4342.6  | 4196.2  |
| 12.5° | 6052.2  | 6095.5  | 6120.9  | 6177.7  | 6173.2  | 6100.0  | 5884.8  | 5444.0  | 4786.5  | 4614.6  |
| 15°   | 6138.9  | 6185.2  | 6282.3  | 6413.8  | 6530.4  | 6567.8  | 6416.8  | 5974.5  | 5275.1  | 5055.5  |
| 17.5° | 6089.6  | 6161.3  | 6277.9  | 6485.6  | 6741.1  | 6910.0  | 6893.5  | 6487.1  | 5719.0  | 5467.9  |
| 20°   | 6198.7  | 6267.4  | 6358.6  | 6533.4  | 6830.8  | 7137.1  | 7259.7  | 6977.2  | 6159.8  | 5896.8  |
| 22.5° | 6802.4  | 6790.4  | 6799.4  | 6827.8  | 7005.6  | 7309.0  | 7561.5  | 7422.5  | 6596.2  | 6327.2  |
| 25°   | 7758.8  | 7705.0  | 7613.8  | 7459.9  | 7415.1  | 7561.5  | 7824.5  | 7817.1  | 7056.4  | 6768.0  |
| 27.5° | 8855.6  | 8846.7  | 8633.0  | 8262.4  | 8053.2  | 7996.4  | 8121.9  | 8201.1  | 7512.2  | 7204.4  |
| 30°   | 9906.2  | 9930.1  | 9641.7  | 9229.2  | 8845.2  | 8622.5  | 8509.0  | 8565.7  | 7975.5  | 7675.1  |
| 32.5° | 10820.7 | 10846.1 | 10532.3 | 10049.6 | 9574.4  | 9305.5  | 9066.4  | 8925.9  | 8480.6  | 8153.3  |
| 35°   | 11593.3 | 11618.7 | 11258.6 | 10725.1 | 10218.5 | 9974.9  | 9704.4  | 9320.4  | 8988.6  | 8683.8  |
| 37.5° | 12283.7 | 12276.3 | 11793.6 | 11255.6 | 10758.0 | 10565.2 | 10423.2 | 9806.1  | 9511.7  | 9217.3  |
| 40°   | 12691.7 | 12723.1 | 12310.6 | 11717.4 | 11234.7 | 11094.2 | 11085.2 | 10408.3 | 10115.4 | 9830.0  |
| 42.5° | 12811.2 | 12866.5 | 12567.7 | 12080.5 | 11642.6 | 11490.2 | 11724.8 | 11059.8 | 10817.8 | 10539.8 |
| 45°   | 12596.1 | 12649.9 | 12513.9 | 12176.1 | 11920.6 | 11822.0 | 12274.8 | 11735.3 | 11567.9 | 11293.0 |
| 47.5° | 11968.4 | 12035.7 | 12068.5 | 11996.8 | 11993.8 | 12094.0 | 12767.9 | 12446.6 | 12458.6 | 12177.6 |
| 50°   | 10753.5 | 10867.1 | 11168.9 | 11423.0 | 11816.0 | 12309.1 | 13247.6 | 13217.7 | 13462.8 | 13220.7 |
| 52.5° | 8544.8  | 8706.2  | 9746.3  | 10441.2 | 11324.3 | 12268.8 | 13775.1 | 14455.1 | 15224.7 | 14870.5 |
| 55°   | 6866.6  | 6866.6  | 7712.5  | 9012.6  | 10365.0 | 12002.8 | 14005.3 | 15259.0 | 16424.6 | 16341.0 |
| 57.5° | 5597.9  | 5665.2  | 6204.6  | 7353.8  | 8976.7  | 11369.2 | 14147.2 | 15764.1 | 17391.5 | 17330.2 |
| 60°   | 3455.0  | 3599.9  | 4619.1  | 5753.3  | 7397.1  | 10240.9 | 14057.6 | 16275.2 | 18564.6 | 18613.9 |
| 62.5° | 1945.7  | 1999.5  | 2453.8  | 4139.4  | 5751.8  | 8724.1  | 13371.6 | 16560.6 | 20064.9 | 20274.1 |
| 65°   | 1343.4  | 1370.3  | 1545.2  | 2576.3  | 3987.0  | 6945.8  | 12031.2 | 16382.8 | 21568.3 | 21991.2 |
| 67.5° | 975.8   | 989.3   | 1098.4  | 1573.6  | 2365.6  | 5036.0  | 9930.1  | 15486.2 | 22364.8 | 23071.6 |
| 70°   | 750.2   | 759.1   | 838.3   | 1034.1  | 1397.2  | 3108.3  | 7211.8  | 13703.4 | 21787.9 | 22632.3 |
| 72.5° | 609.7   | 618.7   | 679.9   | 765.1   | 926.5   | 1838.1  | 4371.0  | 11128.6 | 19241.5 | 20153.1 |
| 75°   | 514.1   | 526.0   | 581.3   | 636.6   | 726.3   | 1180.6  | 2050.3  | 7749.8  | 14470.0 | 15067.7 |
| 77.5° | 285.4   | 263.0   | 472.2   | 527.5   | 612.7   | 747.2   | 959.4   | 4560.8  | 8104.0  | 8269.9  |
| 80°   | 177.8   | 183.8   | 375.1   | 424.4   | 470.7   | 376.6   | 439.3   | 1755.9  | 2809.4  | 2668.9  |
| 82.5° | 10.5    | 23.9    | 288.4   | 306.3   | 322.8   | 161.4   | 165.9   | 596.3   | 677.0   | 621.7   |
| 85°   | 0.0     | 0.0     | 131.5   | 106.1   | 112.1   | 46.3    | 47.8    | 139.0   | 91.2    | 98.6    |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.0     | 0.0     | 4.5     | 9.0     | 12.0    | 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2775.0  | 0°    | 2775.0  | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 | 2775.0 |
| 2917.0  | 2.5°  | 2812.4  | 2707.8 | 2495.6 | 2287.9 | 2119.0 | 1962.1 | 1850.0 | 1743.9 | 1690.1 | 1687.1 |
| 3105.3  | 5°    | 2897.6  | 2677.9 | 2253.5 | 1878.4 | 1576.6 | 1334.5 | 1177.6 | 1065.5 | 1008.7 | 989.3  |
| 3336.9  | 7.5°  | 3017.1  | 2686.9 | 2041.3 | 1519.8 | 1164.1 | 956.4  | 866.7  | 830.9  | 818.9  | 805.5  |
| 3598.4  | 10°   | 3168.1  | 2707.8 | 1851.5 | 1223.9 | 917.5  | 812.9  | 777.1  | 762.1  | 753.2  | 744.2  |
| 3892.8  | 12.5° | 3336.9  | 2727.2 | 1663.2 | 1016.2 | 807.0  | 753.2  | 727.8  | 709.8  | 697.9  | 687.4  |
| 4194.7  | 15°   | 3501.3  | 2739.2 | 1467.5 | 871.2  | 750.2  | 706.8  | 679.9  | 660.5  | 644.1  | 632.1  |
| 4490.6  | 17.5° | 3664.2  | 2755.6 | 1283.7 | 784.5  | 703.8  | 660.5  | 633.6  | 609.7  | 596.3  | 582.8  |
| 4801.4  | 20°   | 3845.0  | 2752.6 | 1110.3 | 723.3  | 657.5  | 614.2  | 585.8  | 563.4  | 549.9  | 535.0  |
| 5130.2  | 22.5° | 4012.4  | 2737.7 | 957.9  | 671.0  | 609.7  | 567.9  | 536.5  | 514.1  | 500.6  | 488.7  |
| 5466.4  | 25°   | 4205.2  | 2725.7 | 830.9  | 623.2  | 564.9  | 523.0  | 488.7  | 467.7  | 452.8  | 442.3  |
| 5804.1  | 27.5° | 4390.5  | 2707.8 | 738.2  | 579.8  | 521.5  | 481.2  | 448.3  | 424.4  | 411.0  | 403.5  |
| 6152.3  | 30°   | 4572.8  | 2703.3 | 703.8  | 538.0  | 482.7  | 442.3  | 409.5  | 387.0  | 376.6  | 373.6  |
| 6534.9  | 32.5° | 4792.5  | 2715.3 | 718.8  | 523.0  | 446.8  | 406.5  | 375.1  | 358.6  | 348.2  | 348.2  |
| 6960.8  | 35°   | 5027.1  | 2712.3 | 741.2  | 536.5  | 422.9  | 370.6  | 346.7  | 336.2  | 325.8  | 325.8  |
| 7433.0  | 37.5° | 5321.5  | 2716.8 | 759.1  | 558.9  | 413.9  | 340.7  | 327.3  | 313.8  | 307.8  | 307.8  |
| 7950.1  | 40°   | 5760.8  | 2864.7 | 750.2  | 578.3  | 411.0  | 319.8  | 292.9  | 288.4  | 283.9  | 283.9  |
| 8534.4  | 42.5° | 6298.8  | 3186.0 | 762.1  | 579.8  | 409.5  | 304.9  | 269.0  | 278.0  | 267.5  | 266.0  |
| 9193.4  | 45°   | 6887.6  | 3537.2 | 838.3  | 548.4  | 408.0  | 297.4  | 257.0  | 267.5  | 251.1  | 251.1  |
| 9957.0  | 47.5° | 7471.9  | 3885.4 | 916.0  | 503.6  | 403.5  | 295.9  | 246.6  | 240.6  | 236.1  | 237.6  |
| 10952.3 | 50°   | 8277.3  | 4169.3 | 945.9  | 442.3  | 393.0  | 292.9  | 227.1  | 228.6  | 225.7  | 228.6  |
| 12355.5 | 52.5° | 9154.5  | 4229.1 | 910.1  | 373.6  | 363.1  | 283.9  | 213.7  | 219.7  | 218.2  | 221.2  |
| 13343.2 | 55°   | 9701.5  | 4164.8 | 751.7  | 310.8  | 316.8  | 248.1  | 200.2  | 212.2  | 212.2  | 212.2  |
| 14308.6 | 57.5° | 10266.3 | 3891.3 | 533.5  | 252.5  | 263.0  | 203.2  | 188.3  | 204.7  | 203.2  | 201.7  |
| 15471.2 | 60°   | 10672.8 | 3449.0 | 351.2  | 207.7  | 209.2  | 167.4  | 174.8  | 192.8  | 191.3  | 183.8  |
| 16669.7 | 62.5° | 10976.2 | 2960.4 | 225.7  | 176.3  | 159.9  | 150.9  | 159.9  | 174.8  | 168.9  | 152.4  |
| 17685.9 | 65°   | 10941.8 | 2283.4 | 173.3  | 150.9  | 131.5  | 131.5  | 139.0  | 152.4  | 134.5  | 107.6  |
| 17880.2 | 67.5° | 10303.7 | 1545.2 | 143.5  | 127.0  | 110.6  | 109.1  | 115.1  | 127.0  | 115.1  | 91.2   |
| 16884.9 | 70°   | 9163.5  | 1010.2 | 115.1  | 98.6   | 88.2   | 80.7   | 92.7   | 109.1  | 97.1   | 73.2   |
| 14374.4 | 72.5° | 7437.5  | 615.7  | 86.7   | 71.7   | 64.3   | 52.3   | 73.2   | 89.7   | 77.7   | 53.8   |
| 9995.9  | 75°   | 4811.9  | 313.8  | 59.8   | 46.3   | 34.4   | 31.4   | 53.8   | 67.2   | 53.8   | 32.9   |
| 4435.3  | 77.5° | 1841.1  | 131.5  | 32.9   | 20.9   | 17.9   | 14.9   | 29.9   | 40.3   | 22.4   | 7.5    |
| 859.3   | 80°   | 354.2   | 55.3   | 16.4   | 10.5   | 9.0    | 6.0    | 4.5    | 3.0    | 0.0    | 0.0    |
| 152.4   | 82.5° | 61.3    | 17.9   | 6.0    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 29.9    | 85°   | 20.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 10.5    | 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°   |
| 2775.0 |
| 1684.2 |
| 986.3  |
| 802.5  |
| 741.2  |
| 684.4  |
| 630.6  |
| 581.3  |
| 533.5  |
| 487.2  |
| 440.8  |
| 403.5  |
| 372.1  |
| 348.2  |
| 325.8  |
| 307.8  |
| 283.9  |
| 264.5  |
| 251.1  |
| 237.6  |
| 228.6  |
| 221.2  |
| 212.2  |
| 201.7  |
| 183.8  |
| 149.4  |
| 104.6  |
| 88.2   |
| 70.2   |
| 50.8   |
| 28.4   |
| 6.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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