

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: P943252

Luminaire Tested: **GALN-SB7C-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

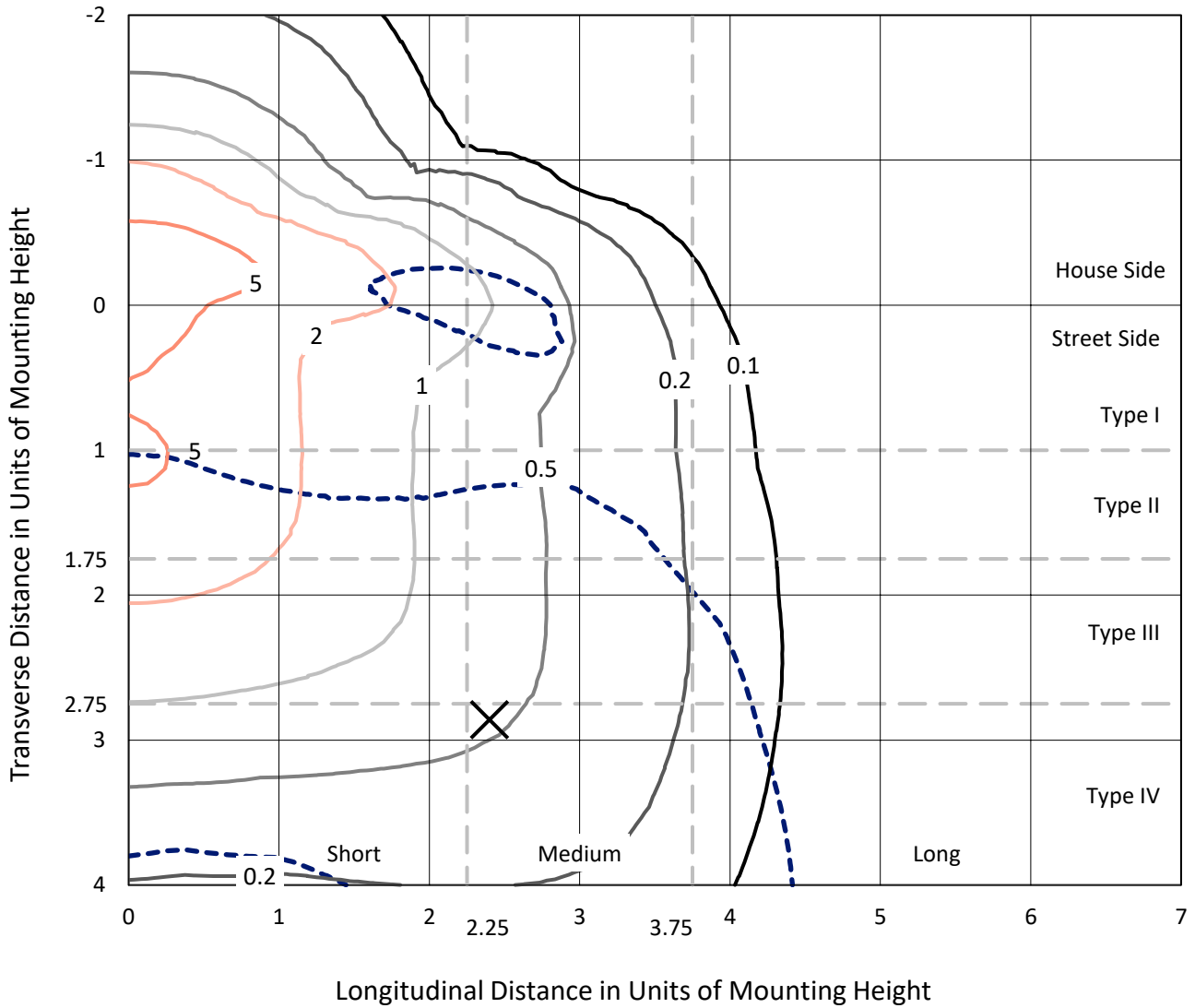
Lumens per Lamp: N/A  
Luminaire Lumens: 32136 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

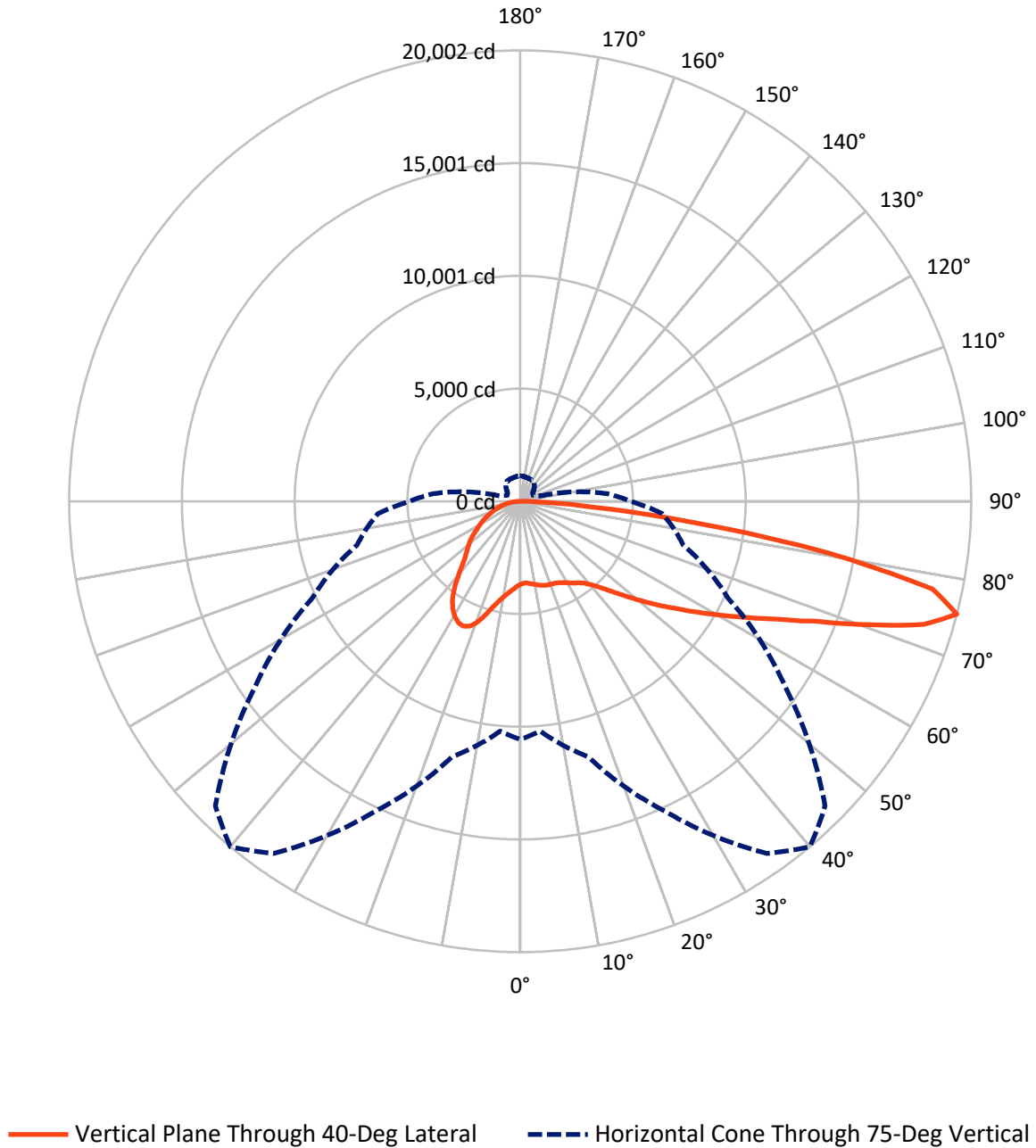
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - 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    | 9956.8   | 0.0    | 9956.8  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 22179.2  | 0.0    | 22179.2 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 32136.0  | 0.0    | 32136.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 366.8   | 1.1       |
| 10°-20°   | 1231.6  | 3.8       |
| 20°-30°   | 2248.7  | 7.0       |
| 30°-40°   | 3189.3  | 9.9       |
| 40°-50°   | 4306.6  | 13.4      |
| 50°-60°   | 5793.5  | 18.0      |
| 60°-70°   | 7353.2  | 22.9      |
| 70°-80°   | 6673.5  | 20.8      |
| 80°-90°   | 972.8   | 3.0       |
| 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°    | 32136.0 | 100.0     |
| 0°-180°   | 32136.0 | 100.0     |

**Coefficient of Utilization**



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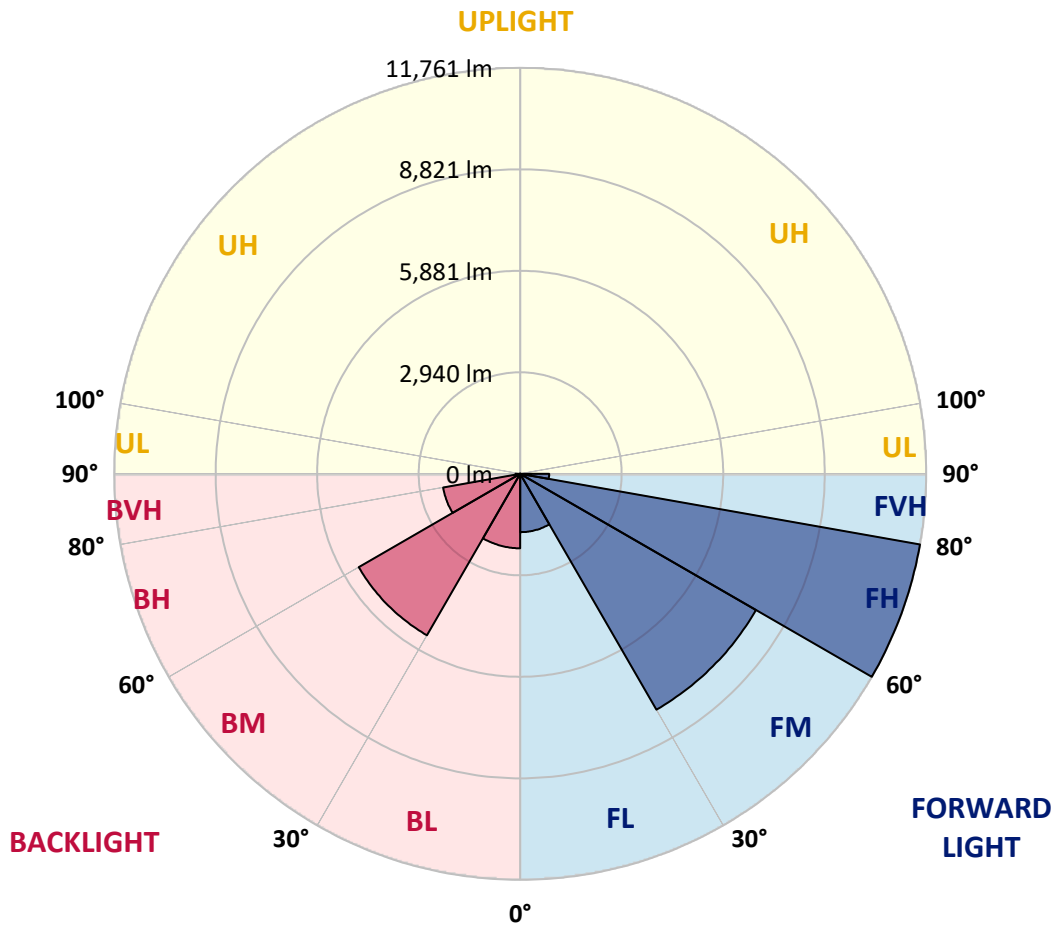
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1690.4  | 5.3       |                         |      |          |
| FM (30°-60°)   | 7888.7  | 24.5      |                         |      |          |
| FH (60°-80°)   | 11761.3 | 36.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 838.9   | 2.6       |                         |      | G5       |
| BL (0°-30°)    | 2156.7  | 6.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 5400.7  | 16.8      | B4/8500                 |      |          |
| BH (60°-80°)   | 2265.5  | 7.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 133.9   | 0.4       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8 |
| 2.5°  | 3618.5  | 3639.0  | 3633.9  | 3627.1  | 3627.1  | 3628.8  | 3627.1  | 3639.0  | 3650.9  | 3662.9 |
| 5°    | 3656.0  | 3676.5  | 3666.3  | 3657.7  | 3650.9  | 3649.2  | 3644.1  | 3642.4  | 3649.2  | 3664.6 |
| 7.5°  | 3729.3  | 3749.8  | 3734.5  | 3719.1  | 3705.5  | 3698.7  | 3691.8  | 3681.6  | 3676.5  | 3685.0 |
| 10°   | 3811.2  | 3831.6  | 3812.9  | 3785.6  | 3763.4  | 3754.9  | 3748.1  | 3737.9  | 3731.0  | 3736.2 |
| 12.5° | 3893.0  | 3913.4  | 3887.9  | 3850.4  | 3821.4  | 3816.3  | 3807.7  | 3804.3  | 3802.6  | 3800.9 |
| 15°   | 3969.7  | 3986.7  | 3954.3  | 3910.0  | 3879.3  | 3870.8  | 3862.3  | 3867.4  | 3875.9  | 3886.1 |
| 17.5° | 4029.3  | 4046.4  | 3998.6  | 3940.7  | 3911.7  | 3908.3  | 3903.2  | 3920.2  | 3944.1  | 3969.7 |
| 20°   | 4083.9  | 4100.9  | 4039.5  | 3961.1  | 3927.1  | 3927.1  | 3928.8  | 3964.6  | 3998.6  | 4036.1 |
| 22.5° | 4160.6  | 4174.2  | 4099.2  | 3991.8  | 3942.4  | 3945.8  | 3959.4  | 3995.2  | 4037.8  | 4089.0 |
| 25°   | 4274.8  | 4285.0  | 4192.9  | 4049.8  | 3993.5  | 4003.8  | 4015.7  | 4032.7  | 4073.6  | 4133.3 |
| 27.5° | 4458.8  | 4467.4  | 4346.3  | 4152.0  | 4066.8  | 4083.9  | 4100.9  | 4089.0  | 4107.7  | 4158.9 |
| 30°   | 4717.9  | 4723.0  | 4569.6  | 4312.3  | 4191.2  | 4199.8  | 4203.2  | 4153.7  | 4118.0  | 4158.9 |
| 32.5° | 5024.7  | 5023.0  | 4840.6  | 4506.6  | 4332.7  | 4324.2  | 4295.2  | 4198.1  | 4114.5  | 4150.3 |
| 35°   | 5500.3  | 5481.5  | 5246.3  | 4779.3  | 4492.9  | 4440.1  | 4371.9  | 4247.5  | 4131.6  | 4141.8 |
| 37.5° | 6287.7  | 6229.8  | 5904.2  | 5225.8  | 4731.6  | 4596.9  | 4496.3  | 4327.6  | 4169.1  | 4138.4 |
| 40°   | 7175.7  | 7102.4  | 6744.5  | 5837.7  | 5089.5  | 4873.0  | 4711.1  | 4441.8  | 4230.4  | 4153.7 |
| 42.5° | 8229.1  | 8125.1  | 7739.9  | 6558.7  | 5542.9  | 5229.3  | 4985.5  | 4586.7  | 4320.8  | 4203.2 |
| 45°   | 9522.8  | 9384.7  | 8839.3  | 7371.7  | 6113.9  | 5696.3  | 5370.7  | 4806.5  | 4458.8  | 4298.6 |
| 47.5° | 10830.1 | 10864.2 | 10088.6 | 8302.4  | 6799.1  | 6272.4  | 5853.1  | 5137.2  | 4660.0  | 4452.0 |
| 50°   | 12219.2 | 12243.1 | 11331.2 | 9333.6  | 7576.3  | 6923.5  | 6395.1  | 5507.1  | 4939.5  | 4670.2 |
| 52.5° | 13303.2 | 13306.6 | 12459.5 | 10412.5 | 8385.9  | 7639.3  | 6979.7  | 5929.8  | 5263.3  | 4959.9 |
| 55°   | 13981.6 | 13973.1 | 13250.4 | 11433.5 | 9316.5  | 8391.0  | 7627.4  | 6410.4  | 5658.8  | 5300.8 |
| 57.5° | 14474.2 | 14448.6 | 13795.8 | 12311.2 | 10308.5 | 9279.0  | 8360.3  | 6955.9  | 6125.8  | 5706.5 |
| 60°   | 14661.7 | 14646.3 | 14165.7 | 13069.7 | 11351.6 | 10260.8 | 9205.7  | 7566.1  | 6655.9  | 6185.4 |
| 62.5° | 14733.3 | 14762.2 | 14528.7 | 13804.3 | 12468.1 | 11348.2 | 10134.7 | 8295.6  | 7252.4  | 6727.5 |
| 65°   | 14985.5 | 15038.4 | 14990.6 | 14765.7 | 13729.3 | 12621.5 | 11367.0 | 9163.1  | 7903.5  | 7308.7 |
| 67.5° | 15484.9 | 15537.8 | 15558.2 | 15916.2 | 15270.2 | 14208.3 | 12904.4 | 10243.7 | 8665.4  | 7912.1 |
| 70°   | 15473.0 | 15457.7 | 15819.0 | 16831.4 | 17199.6 | 16405.3 | 14977.0 | 11573.2 | 9573.9  | 8413.2 |
| 72.5° | 14083.9 | 13961.2 | 14815.1 | 16821.2 | 18805.2 | 18699.5 | 17508.1 | 13287.9 | 10357.9 | 8474.5 |
| 75°   | 10565.9 | 10238.6 | 11747.1 | 15159.4 | 19072.8 | 20001.7 | 19117.1 | 14351.5 | 10172.2 | 7487.6 |
| 77.5° | 4518.5  | 4189.5  | 5967.3  | 11222.1 | 17070.1 | 18697.8 | 17641.1 | 12520.9 | 8120.0  | 4951.4 |
| 80°   | 1182.9  | 1181.2  | 1803.3  | 5087.8  | 11609.0 | 13807.8 | 12113.5 | 8085.9  | 4639.5  | 1769.2 |
| 82.5° | 489.2   | 477.2   | 663.0   | 1978.9  | 5672.4  | 7748.4  | 6323.5  | 3606.6  | 1675.5  | 479.0  |
| 85°   | 182.4   | 180.7   | 322.1   | 683.5   | 2001.0  | 3195.8  | 2312.9  | 922.1   | 417.6   | 233.5  |
| 87.5° | 51.1    | 49.4    | 69.9    | 236.9   | 487.5   | 739.7   | 395.4   | 151.7   | 117.6   | 92.0   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3674.8  | 0°    | 3674.8  | 3674.8  | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 |
| 3681.6  | 2.5°  | 3686.7  | 3695.2  | 3710.6 | 3722.5 | 3737.9 | 3754.9 | 3778.8 | 3794.1 | 3809.4 | 3819.7 |
| 3690.1  | 5°    | 3702.1  | 3720.8  | 3760.0 | 3799.2 | 3845.2 | 3887.9 | 3937.3 | 3973.1 | 4002.0 | 4010.6 |
| 3720.8  | 7.5°  | 3736.2  | 3766.8  | 3833.3 | 3899.8 | 3973.1 | 4043.0 | 4114.5 | 4175.9 | 4225.3 | 4244.1 |
| 3775.4  | 10°   | 3795.8  | 3836.7  | 3930.5 | 4024.2 | 4121.4 | 4228.7 | 4320.8 | 4409.4 | 4479.3 | 4508.3 |
| 3840.1  | 12.5° | 3870.8  | 3921.9  | 4044.7 | 4174.2 | 4308.8 | 4457.1 | 4576.4 | 4685.5 | 4772.5 | 4811.7 |
| 3930.5  | 15°   | 3968.0  | 4034.4  | 4191.2 | 4365.1 | 4562.8 | 4769.1 | 4920.7 | 5041.8 | 5138.9 | 5186.6 |
| 4024.2  | 17.5° | 4073.6  | 4162.3  | 4360.0 | 4622.5 | 4905.4 | 5176.4 | 5353.7 | 5442.3 | 5542.9 | 5588.9 |
| 4111.1  | 20°   | 4175.9  | 4285.0  | 4567.9 | 4949.7 | 5326.4 | 5614.5 | 5757.6 | 5781.5 | 5788.3 | 5793.4 |
| 4192.9  | 22.5° | 4281.6  | 4428.2  | 4828.7 | 5362.2 | 5766.2 | 5965.6 | 5986.0 | 5883.8 | 5740.6 | 5674.1 |
| 4273.1  | 25°   | 4397.5  | 4591.8  | 5169.6 | 5817.3 | 6144.5 | 6168.4 | 6011.6 | 5762.7 | 5491.7 | 5367.3 |
| 4337.8  | 27.5° | 4510.0  | 4781.0  | 5578.7 | 6251.9 | 6417.3 | 6207.6 | 5870.1 | 5517.3 | 5190.1 | 5058.8 |
| 4383.8  | 30°   | 4622.5  | 4997.4  | 6030.3 | 6632.0 | 6541.7 | 6110.5 | 5646.8 | 5253.1 | 4924.2 | 4786.1 |
| 4424.8  | 32.5° | 4736.7  | 5249.7  | 6550.2 | 6906.4 | 6519.5 | 5904.2 | 5369.0 | 4956.5 | 4666.8 | 4521.9 |
| 4460.5  | 35°   | 4866.2  | 5559.9  | 7042.8 | 7056.4 | 6371.2 | 5600.8 | 5002.6 | 4602.0 | 4349.8 | 4233.9 |
| 4503.2  | 37.5° | 5034.9  | 5953.6  | 7477.4 | 7093.9 | 6112.2 | 5156.0 | 4547.5 | 4182.7 | 3974.8 | 3921.9 |
| 4566.2  | 40°   | 5244.6  | 6427.5  | 7809.8 | 7034.3 | 5728.7 | 4615.7 | 4049.8 | 3758.3 | 3640.7 | 3652.6 |
| 4651.4  | 42.5° | 5517.3  | 6957.6  | 8043.3 | 6880.9 | 5195.2 | 4058.3 | 3613.4 | 3483.9 | 3540.1 | 3587.9 |
| 4779.3  | 45°   | 5871.8  | 7508.1  | 8188.2 | 6620.1 | 4591.8 | 3586.2 | 3356.1 | 3386.7 | 3429.4 | 3434.5 |
| 4985.5  | 47.5° | 6325.2  | 8065.5  | 8283.6 | 6226.4 | 3976.5 | 3253.8 | 3192.4 | 3199.3 | 3190.7 | 3154.9 |
| 5294.0  | 50°   | 6891.1  | 8607.5  | 8368.9 | 5704.8 | 3453.2 | 3045.9 | 2964.0 | 2940.2 | 2822.6 | 2706.7 |
| 5704.8  | 52.5° | 7535.4  | 9105.2  | 8404.6 | 5057.1 | 3045.9 | 2872.0 | 2739.1 | 2589.1 | 2369.2 | 2333.4 |
| 6221.2  | 55°   | 8251.2  | 9565.4  | 8312.6 | 4261.1 | 2703.3 | 2648.7 | 2447.6 | 2266.9 | 2243.1 | 2212.4 |
| 6901.3  | 57.5° | 9106.9  | 10061.4 | 8125.1 | 3373.1 | 2352.1 | 2387.9 | 2191.9 | 2212.4 | 2169.8 | 2122.0 |
| 7775.7  | 60°   | 10042.6 | 10574.4 | 7796.2 | 2563.5 | 1989.1 | 2062.4 | 2125.4 | 2123.7 | 2111.8 | 2072.6 |
| 8697.8  | 62.5° | 10884.6 | 10911.9 | 7148.5 | 1963.5 | 1670.4 | 1810.1 | 1982.3 | 1980.6 | 1970.3 | 1948.2 |
| 9660.8  | 65°   | 11385.7 | 10860.8 | 6067.8 | 1545.9 | 1407.9 | 1602.2 | 1788.0 | 1801.6 | 1803.3 | 1801.6 |
| 10385.2 | 67.5° | 11297.1 | 10262.5 | 4585.0 | 1230.6 | 1191.4 | 1390.8 | 1595.4 | 1614.1 | 1627.7 | 1631.2 |
| 10477.3 | 70°   | 10294.9 | 8948.4  | 2989.6 | 981.8  | 998.8  | 1205.0 | 1413.0 | 1431.7 | 1443.7 | 1457.3 |
| 9091.5  | 72.5° | 8024.6  | 6579.2  | 1711.3 | 794.3  | 830.1  | 1044.8 | 1232.3 | 1254.5 | 1261.3 | 1286.9 |
| 6326.9  | 75°   | 4890.1  | 3869.1  | 923.8  | 625.5  | 681.8  | 893.1  | 1053.4 | 1078.9 | 1090.8 | 1121.5 |
| 3107.2  | 77.5° | 2324.9  | 1675.5  | 526.7  | 487.5  | 548.8  | 729.5  | 889.7  | 918.7  | 886.3  | 903.4  |
| 857.3   | 80°   | 785.8   | 622.1   | 332.4  | 371.6  | 419.3  | 569.3  | 712.5  | 741.4  | 673.3  | 669.8  |
| 284.6   | 82.5° | 274.4   | 252.3   | 211.4  | 247.1  | 271.0  | 407.4  | 538.6  | 576.1  | 501.1  | 499.4  |
| 127.8   | 85°   | 107.4   | 102.3   | 117.6  | 134.7  | 161.9  | 250.6  | 354.5  | 373.3  | 308.5  | 248.8  |
| 37.5    | 87.5° | 22.2    | 23.9    | 29.0   | 30.7   | 49.4   | 86.9   | 127.8  | 156.8  | 124.4  | 105.7  |
| 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> |
|-------------|
| 3674.8      |
| 3812.9      |
| 4014.0      |
| 4245.8      |
| 4510.0      |
| 4811.7      |
| 5183.2      |
| 5587.2      |
| 5807.1      |
| 5692.9      |
| 5386.1      |
| 5074.1      |
| 4801.4      |
| 4540.7      |
| 4259.4      |
| 3959.4      |
| 3693.5      |
| 3632.2      |
| 3468.6      |
| 3182.2      |
| 2722.0      |
| 2345.3      |
| 2217.5      |
| 2113.5      |
| 2059.0      |
| 1939.7      |
| 1801.6      |
| 1634.6      |
| 1464.1      |
| 1297.1      |
| 1124.9      |
| 889.7       |
| 663.0       |
| 475.5       |
| 245.4       |
| 97.2        |
| 0.0         |

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