

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: P944227

Luminaire Tested: **GALN-SB9A-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944227  
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-SB9A-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

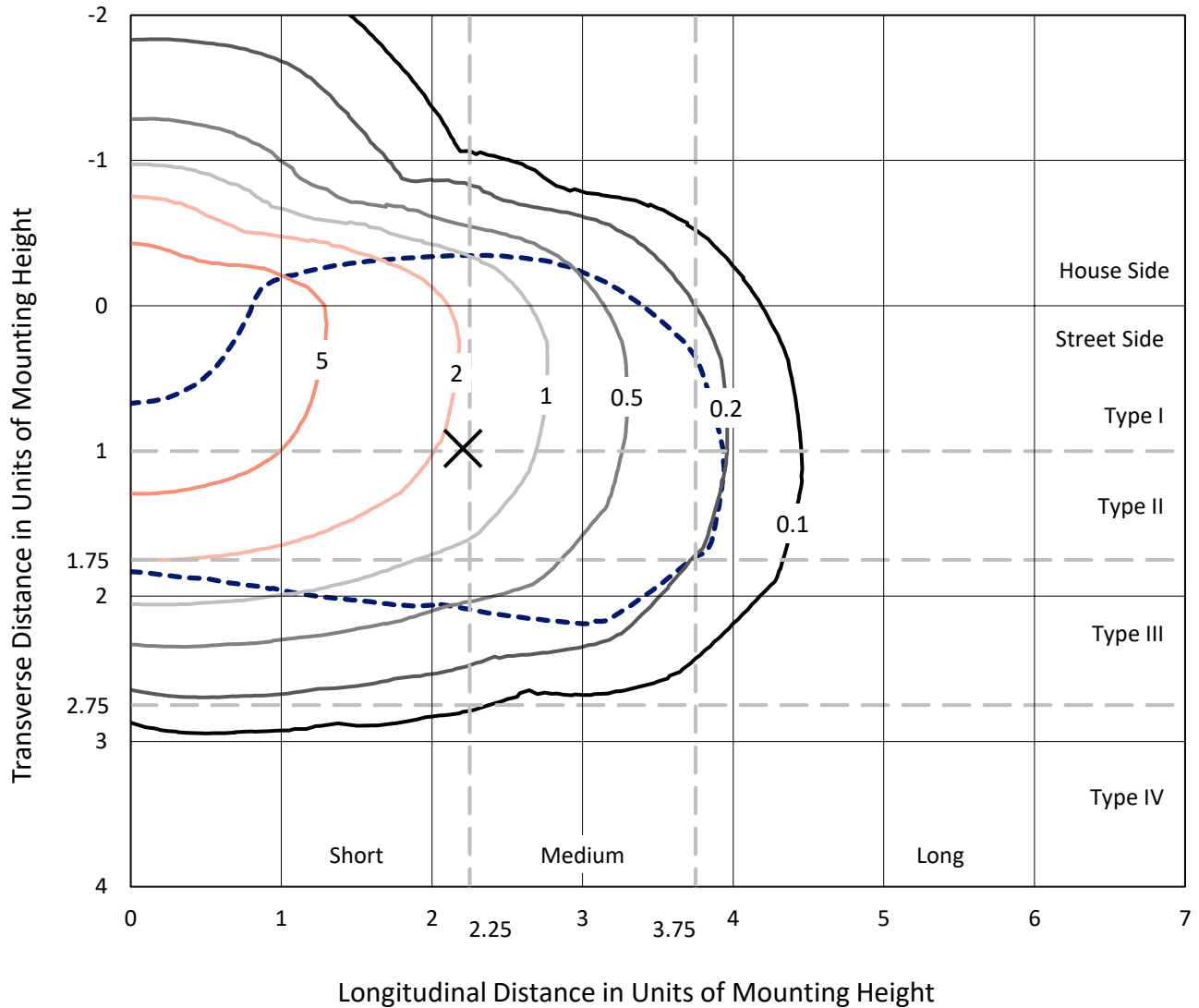
Lumens per Lamp: N/A  
Luminaire Lumens: 35553 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

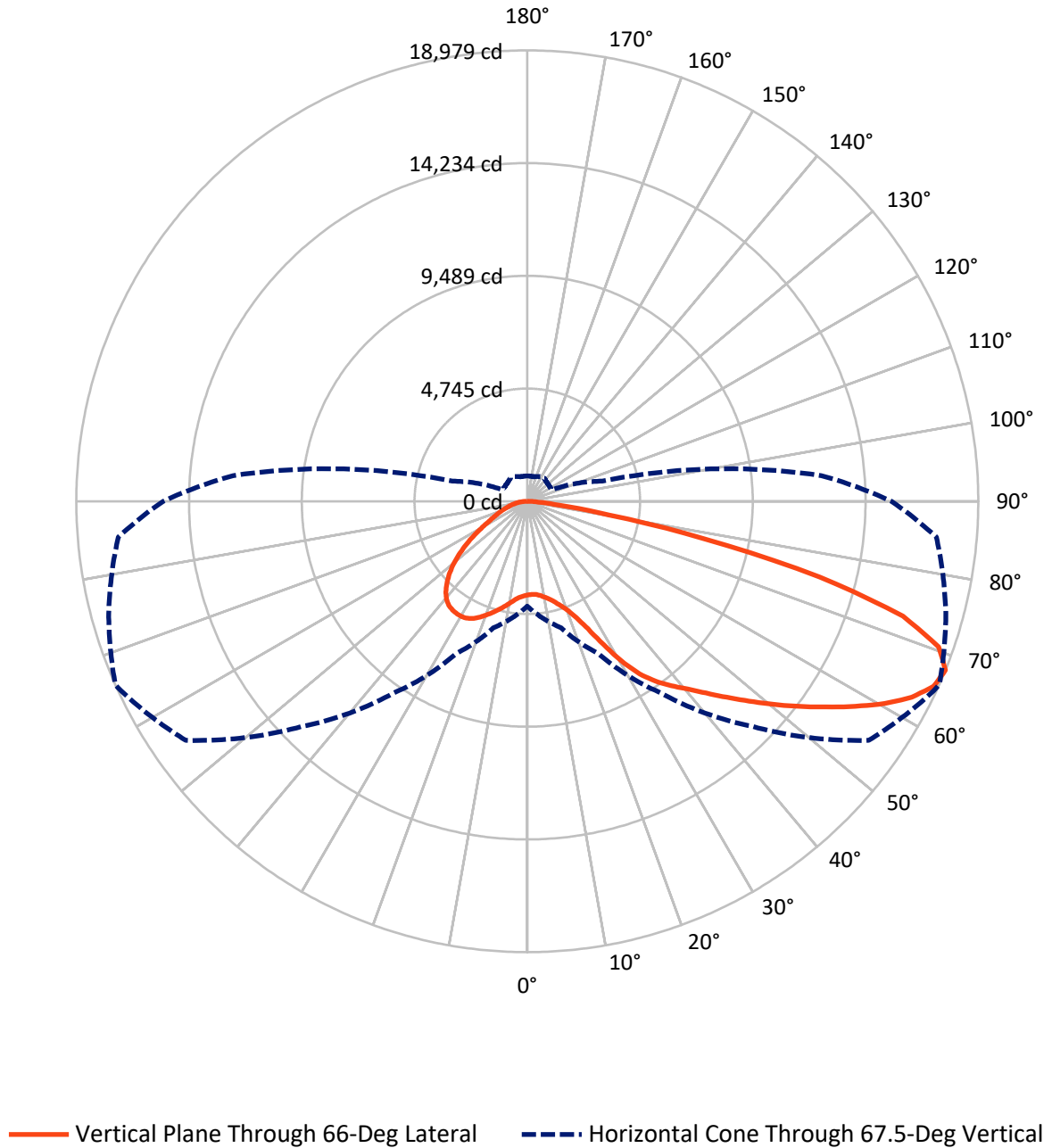
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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    | 8840.1   | 0.0    | 8840.1  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 26712.8  | 0.0    | 26712.8 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 35553.0  | 0.0    | 35553.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 391.0   | 1.1       |
| 10°-20°   | 1291.7  | 3.6       |
| 20°-30°   | 2489.7  | 7.0       |
| 30°-40°   | 4365.3  | 12.3      |
| 40°-50°   | 6489.7  | 18.3      |
| 50°-60°   | 8226.4  | 23.1      |
| 60°-70°   | 8049.3  | 22.6      |
| 70°-80°   | 3839.6  | 10.8      |
| 80°-90°   | 410.3   | 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°    | 35553.0 | 100.0     |
| 0°-180°   | 35553.0 | 100.0     |

**Coefficient of Utilization**



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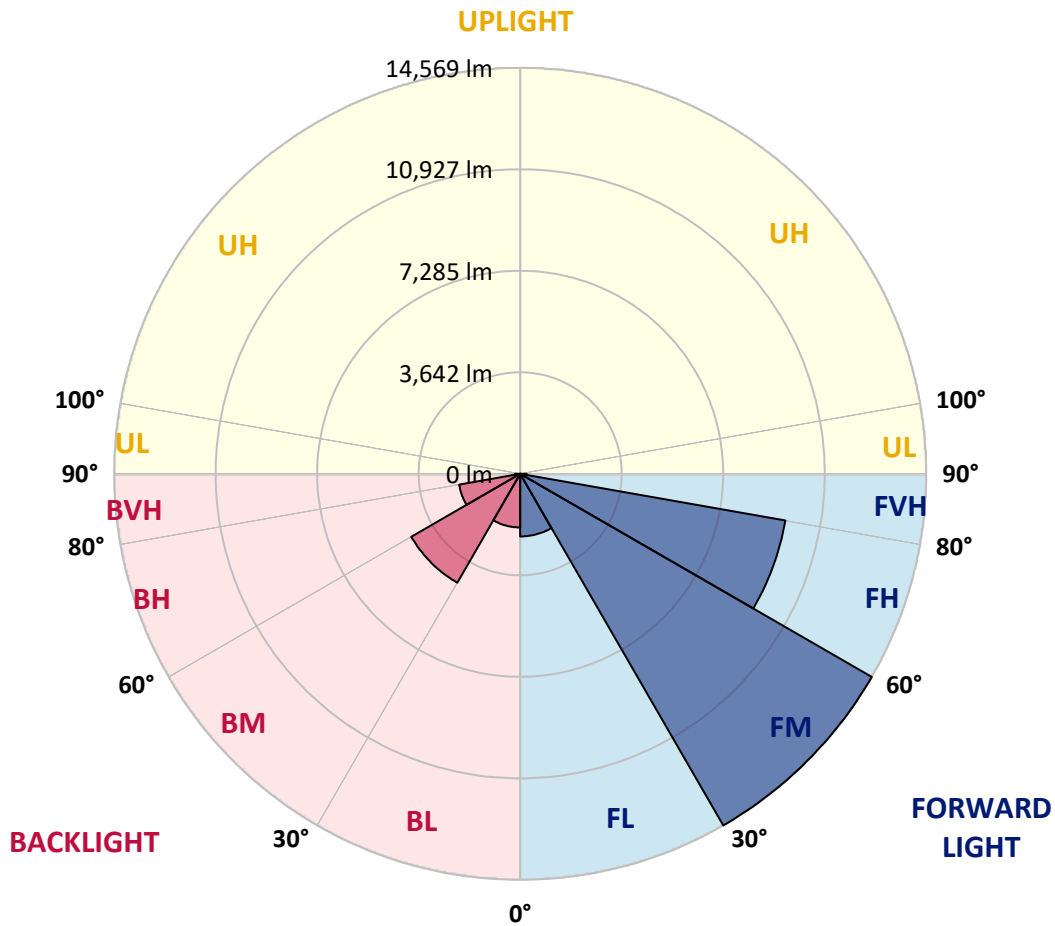
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2246.6  | 6.3       |                         |      |          |
| FM (30°-60°)   | 14569.3 | 41.0      |                         |      |          |
| FH (60°-80°)   | 9664.3  | 27.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 232.7   | 0.7       |                         |      | G3/500   |
| BL (0°-30°)    | 1925.7  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 4512.1  | 12.7      | B3/5000                 |      |          |
| BH (60°-80°)   | 2224.6  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 177.7   | 0.5       |                         |      | G2/225   |
| 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°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3943.3  | 3943.3  | 3943.3  | 3943.3  | 3943.3  | 3943.3  | 3943.3  | 3943.3  | 3943.3  | 3943.3  |
| 2.5°  | 3902.2  | 3924.6  | 3919.0  | 3909.7  | 3907.8  | 3911.5  | 3917.1  | 3922.7  | 3920.9  | 3930.2  |
| 5°    | 3891.0  | 3913.4  | 3911.5  | 3911.5  | 3919.0  | 3934.0  | 3943.3  | 3952.6  | 3943.3  | 3954.5  |
| 7.5°  | 3898.5  | 3915.3  | 3922.7  | 3930.2  | 3948.9  | 3976.9  | 3999.3  | 4019.9  | 4008.7  | 4021.8  |
| 10°   | 3993.7  | 4006.8  | 4014.3  | 4014.3  | 4027.4  | 4059.1  | 4081.5  | 4118.9  | 4109.5  | 4130.1  |
| 12.5° | 4167.5  | 4180.5  | 4180.5  | 4173.1  | 4182.4  | 4202.9  | 4210.4  | 4251.5  | 4234.7  | 4268.3  |
| 15°   | 4380.4  | 4406.6  | 4386.0  | 4372.9  | 4376.7  | 4397.2  | 4395.3  | 4427.1  | 4410.3  | 4438.3  |
| 17.5° | 4615.8  | 4649.4  | 4615.8  | 4613.9  | 4606.4  | 4628.8  | 4630.7  | 4658.7  | 4628.8  | 4649.4  |
| 20°   | 4894.1  | 4940.8  | 4912.8  | 4922.1  | 4905.3  | 4914.6  | 4924.0  | 4965.1  | 4918.4  | 4933.3  |
| 22.5° | 5286.4  | 5342.4  | 5312.5  | 5348.0  | 5336.8  | 5329.3  | 5327.5  | 5400.3  | 5327.5  | 5333.1  |
| 25°   | 5858.0  | 5925.2  | 5872.9  | 5921.5  | 5921.5  | 5945.8  | 5973.8  | 6067.2  | 5945.8  | 5910.3  |
| 27.5° | 6702.3  | 6769.5  | 6666.8  | 6696.7  | 6687.4  | 6747.1  | 6717.2  | 6948.9  | 6818.1  | 6760.2  |
| 30°   | 7718.5  | 7838.0  | 7643.8  | 7636.3  | 7626.9  | 7722.2  | 7765.2  | 7918.4  | 7785.7  | 7727.8  |
| 32.5° | 8816.8  | 8942.0  | 8710.4  | 8643.1  | 8607.6  | 8665.5  | 8630.0  | 8753.3  | 8661.8  | 8572.1  |
| 35°   | 9978.7  | 10102.0 | 9881.6  | 9750.8  | 9608.9  | 9487.5  | 9360.4  | 9392.2  | 9306.3  | 9169.9  |
| 37.5° | 11077.1 | 11303.1 | 11069.6 | 10929.5 | 10668.0 | 10430.8 | 10075.9 | 9928.3  | 9848.0  | 9722.8  |
| 40°   | 12196.0 | 12324.9 | 12147.4 | 12027.9 | 11744.0 | 11372.2 | 10804.4 | 10492.4 | 10384.1 | 10262.7 |
| 42.5° | 13019.8 | 13143.1 | 13047.8 | 12965.6 | 12743.3 | 12311.8 | 11577.7 | 11187.3 | 11030.4 | 10894.0 |
| 45°   | 13673.6 | 13765.1 | 13705.3 | 13735.2 | 13640.0 | 13221.5 | 12379.1 | 11932.6 | 11770.1 | 11603.9 |
| 47.5° | 13937.0 | 14034.1 | 14129.4 | 14306.8 | 14469.3 | 14161.1 | 13240.2 | 12739.6 | 12567.7 | 12397.8 |
| 50°   | 13907.1 | 14006.1 | 14282.5 | 14659.9 | 15164.2 | 15061.5 | 14148.1 | 13598.9 | 13440.1 | 13245.8 |
| 52.5° | 13668.0 | 13780.1 | 14135.0 | 14762.6 | 15565.8 | 15735.8 | 15072.7 | 14486.2 | 14336.7 | 14105.1 |
| 55°   | 13040.3 | 13107.6 | 13640.0 | 14529.1 | 15661.1 | 16206.6 | 15978.7 | 15431.4 | 15281.9 | 14958.8 |
| 57.5° | 11876.6 | 11973.7 | 12748.9 | 13899.6 | 15422.0 | 16526.0 | 16774.4 | 16425.1 | 16281.3 | 15816.2 |
| 60°   | 10357.9 | 10513.0 | 11400.3 | 12842.3 | 14813.1 | 16524.1 | 17497.3 | 17402.1 | 17282.5 | 16660.5 |
| 62.5° | 8639.4  | 8818.7  | 9672.4  | 11348.0 | 13748.3 | 16055.3 | 17949.4 | 18220.2 | 18158.6 | 17439.4 |
| 65°   | 6635.1  | 6758.3  | 7608.3  | 9414.6  | 12091.4 | 15048.4 | 18001.7 | 18778.8 | 18790.0 | 18031.6 |
| 67.5° | 4417.8  | 4772.7  | 5510.5  | 7064.7  | 9872.3  | 13402.7 | 17542.2 | 18870.3 | 18978.6 | 18235.2 |
| 70°   | 2155.6  | 2622.6  | 3345.5  | 4591.5  | 7064.7  | 10879.1 | 16341.1 | 18119.4 | 18360.3 | 17641.2 |
| 72.5° | 894.8   | 1046.1  | 1440.2  | 2265.9  | 4055.4  | 7341.1  | 13927.6 | 16083.3 | 16529.7 | 15631.2 |
| 75°   | 603.4   | 653.8   | 823.8   | 1161.9  | 1847.4  | 3620.1  | 10044.1 | 11992.4 | 12711.6 | 11805.6 |
| 77.5° | 465.1   | 496.9   | 599.6   | 812.6   | 1098.4  | 1369.2  | 5376.0  | 7227.2  | 7598.9  | 7034.8  |
| 80°   | 366.1   | 390.4   | 448.3   | 592.1   | 778.9   | 732.2   | 1832.5  | 3274.6  | 3489.4  | 2927.1  |
| 82.5° | 317.6   | 326.9   | 321.3   | 401.6   | 517.4   | 427.8   | 601.5   | 1208.6  | 1333.7  | 967.6   |
| 85°   | 229.8   | 255.9   | 267.1   | 248.4   | 274.6   | 216.7   | 246.6   | 427.8   | 470.7   | 420.3   |
| 87.5° | 93.4    | 138.2   | 170.0   | 160.6   | 100.9   | 61.6    | 76.6    | 125.2   | 143.8   | 156.9   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3943.3  | 0°    | 3943.3  | 3943.3  | 3943.3 | 3943.3 | 3943.3 | 3943.3 | 3943.3 | 3943.3 | 3943.3 | 3943.3 |
| 3945.2  | 2.5°  | 3947.0  | 3960.1  | 3969.4 | 3980.7 | 3988.1 | 3999.3 | 4021.8 | 4034.8 | 4036.7 | 4046.0 |
| 3975.1  | 5°    | 3982.5  | 4001.2  | 4021.8 | 4051.6 | 4085.3 | 4113.3 | 4156.2 | 4186.1 | 4197.3 | 4206.7 |
| 4047.9  | 7.5°  | 4059.1  | 4085.3  | 4122.6 | 4174.9 | 4223.5 | 4260.9 | 4313.2 | 4348.6 | 4384.1 | 4397.2 |
| 4163.7  | 10°   | 4173.1  | 4210.4  | 4264.6 | 4335.6 | 4387.9 | 4436.4 | 4490.6 | 4520.5 | 4556.0 | 4570.9 |
| 4301.9  | 12.5° | 4315.0  | 4354.3  | 4425.2 | 4524.2 | 4572.8 | 4606.4 | 4625.1 | 4617.6 | 4625.1 | 4638.2 |
| 4468.2  | 15°   | 4477.5  | 4520.5  | 4600.8 | 4707.3 | 4740.9 | 4711.0 | 4669.9 | 4632.6 | 4627.0 | 4630.7 |
| 4669.9  | 17.5° | 4669.9  | 4701.7  | 4795.1 | 4884.8 | 4860.5 | 4737.2 | 4647.5 | 4587.7 | 4557.9 | 4548.5 |
| 4927.7  | 20°   | 4938.9  | 4938.9  | 5015.5 | 5071.6 | 4909.0 | 4699.8 | 4559.7 | 4462.6 | 4401.0 | 4374.8 |
| 5278.9  | 22.5° | 5265.8  | 5235.9  | 5284.5 | 5245.3 | 4899.7 | 4595.2 | 4401.0 | 4232.8 | 4139.4 | 4102.1 |
| 5770.2  | 25°   | 5680.5  | 5645.0  | 5631.9 | 5389.1 | 4832.5 | 4429.0 | 4113.3 | 3909.7 | 3827.5 | 3806.9 |
| 6478.1  | 27.5° | 6306.3  | 6216.6  | 6046.6 | 5467.6 | 4709.2 | 4167.5 | 3777.0 | 3588.4 | 3541.7 | 3543.6 |
| 7387.8  | 30°   | 7139.4  | 6960.1  | 6543.5 | 5480.6 | 4507.4 | 3797.6 | 3433.3 | 3298.8 | 3276.4 | 3285.8 |
| 8151.8  | 32.5° | 7910.9  | 7740.9  | 7051.6 | 5420.9 | 4197.3 | 3435.2 | 3125.1 | 3035.5 | 3001.8 | 3013.0 |
| 8734.7  | 35°   | 8516.1  | 8469.4  | 7522.3 | 5336.8 | 3816.3 | 3095.2 | 2848.7 | 2772.1 | 2706.7 | 2691.8 |
| 9283.8  | 37.5° | 9087.7  | 9069.0  | 7875.4 | 5219.1 | 3438.9 | 2854.3 | 2626.4 | 2525.5 | 2430.2 | 2377.9 |
| 9890.9  | 40°   | 9715.3  | 9696.7  | 8107.0 | 5037.9 | 3104.6 | 2645.1 | 2426.5 | 2293.9 | 2176.2 | 2080.9 |
| 10578.3 | 42.5° | 10421.4 | 10311.2 | 8217.2 | 4778.3 | 2820.6 | 2467.6 | 2264.0 | 2084.7 | 1929.6 | 1841.8 |
| 11355.4 | 45°   | 11192.9 | 10944.5 | 8215.4 | 4447.7 | 2581.5 | 2305.1 | 2090.3 | 1836.2 | 1692.4 | 1610.2 |
| 12153.1 | 47.5° | 12011.1 | 11549.7 | 8114.5 | 4081.5 | 2349.9 | 2125.8 | 1821.3 | 1627.0 | 1531.7 | 1481.3 |
| 13019.8 | 50°   | 12855.4 | 12115.7 | 7942.6 | 3661.2 | 2112.7 | 1922.1 | 1653.2 | 1520.5 | 1447.7 | 1401.0 |
| 13879.1 | 52.5° | 13649.3 | 12629.4 | 7735.3 | 3184.9 | 1871.7 | 1724.1 | 1578.4 | 1475.7 | 1399.1 | 1346.8 |
| 14712.2 | 55°   | 14387.2 | 13072.1 | 7442.0 | 2697.4 | 1675.6 | 1591.5 | 1542.9 | 1457.0 | 1369.2 | 1307.6 |
| 15558.4 | 57.5° | 15042.8 | 13359.8 | 6935.8 | 2239.7 | 1535.5 | 1500.0 | 1505.6 | 1425.3 | 1324.4 | 1272.1 |
| 16391.5 | 60°   | 15588.3 | 13570.8 | 6186.7 | 1815.7 | 1421.5 | 1410.3 | 1447.7 | 1365.5 | 1247.8 | 1188.0 |
| 17095.7 | 62.5° | 15915.2 | 13567.1 | 5267.7 | 1486.9 | 1324.4 | 1328.1 | 1371.1 | 1290.8 | 1171.2 | 1115.2 |
| 17463.7 | 65°   | 15887.1 | 13234.6 | 4259.0 | 1272.1 | 1231.0 | 1234.7 | 1290.8 | 1208.6 | 1107.7 | 1074.1 |
| 17278.8 | 67.5° | 15324.9 | 12423.9 | 3267.1 | 1132.0 | 1128.3 | 1145.1 | 1210.4 | 1152.5 | 1068.5 | 1064.7 |
| 16176.7 | 70°   | 13802.5 | 10740.9 | 2353.6 | 1019.9 | 1021.8 | 1046.1 | 1132.0 | 1117.0 | 1047.9 | 1055.4 |
| 13600.7 | 72.5° | 11067.8 | 8189.2  | 1580.3 | 902.2  | 904.1  | 943.3  | 1057.3 | 1089.0 | 1027.4 | 1126.4 |
| 9650.0  | 75°   | 7371.0  | 5107.0  | 1016.2 | 777.1  | 778.9  | 829.4  | 991.9  | 1034.9 | 971.3  | 1122.7 |
| 5021.1  | 77.5° | 3541.7  | 2295.7  | 736.0  | 653.8  | 653.8  | 700.5  | 857.4  | 926.5  | 827.5  | 872.3  |
| 1613.9  | 80°   | 1223.5  | 863.0   | 579.1  | 526.8  | 515.6  | 547.3  | 722.9  | 803.2  | 713.6  | 657.5  |
| 526.8   | 82.5° | 481.9   | 448.3   | 465.1  | 409.1  | 371.7  | 392.3  | 562.3  | 663.1  | 524.9  | 474.5  |
| 297.0   | 85°   | 276.5   | 291.4   | 328.8  | 270.9  | 214.8  | 241.0  | 412.8  | 476.3  | 396.0  | 349.3  |
| 97.1    | 87.5° | 74.7    | 102.7   | 151.3  | 140.1  | 97.1   | 102.7  | 196.1  | 263.4  | 227.9  | 175.6  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END O

| <u>180°</u> |
|-------------|
| 3943.3      |
| 4044.2      |
| 4204.8      |
| 4399.1      |
| 4578.4      |
| 4641.9      |
| 4643.8      |
| 4561.6      |
| 4369.2      |
| 4096.5      |
| 3810.7      |
| 3549.2      |
| 3317.5      |
| 3028.0      |
| 2703.0      |
| 2379.8      |
| 2090.3      |
| 1847.4      |
| 1606.5      |
| 1470.1      |
| 1384.2      |
| 1324.4      |
| 1283.3      |
| 1238.5      |
| 1161.9      |
| 1098.4      |
| 1072.2      |
| 1070.4      |
| 1053.5      |
| 1141.3      |
| 1132.0      |
| 799.5       |
| 616.4       |
| 472.6       |
| 356.8       |
| 181.2       |
| 0.0         |

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