

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: P953901

Luminaire Tested: **GALN-SB7B-760-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-760-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

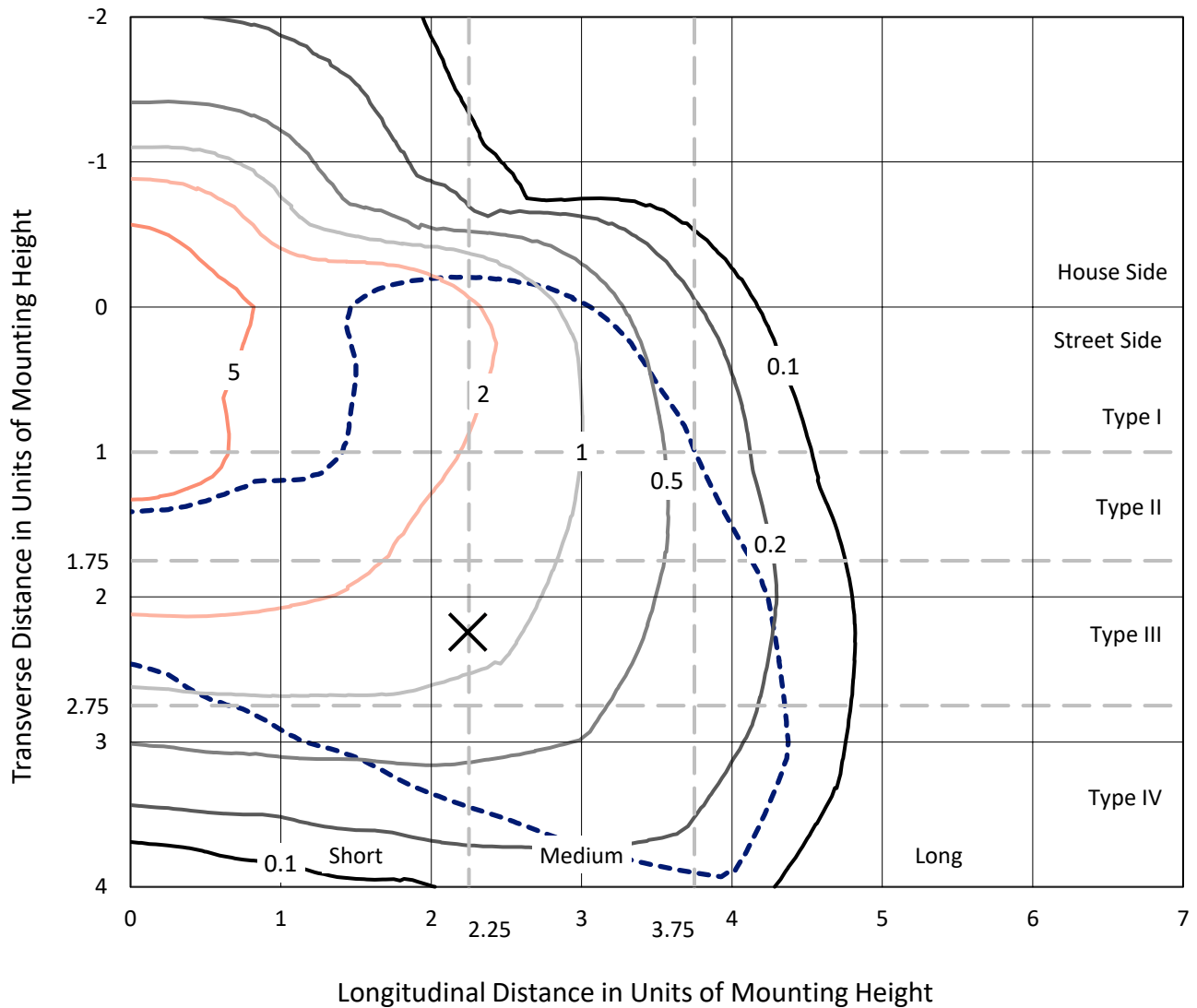
Lumens per Lamp: N/A  
Luminaire Lumens: 42285 lumens  
Efficiency: N/A  
Efficacy: 164.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

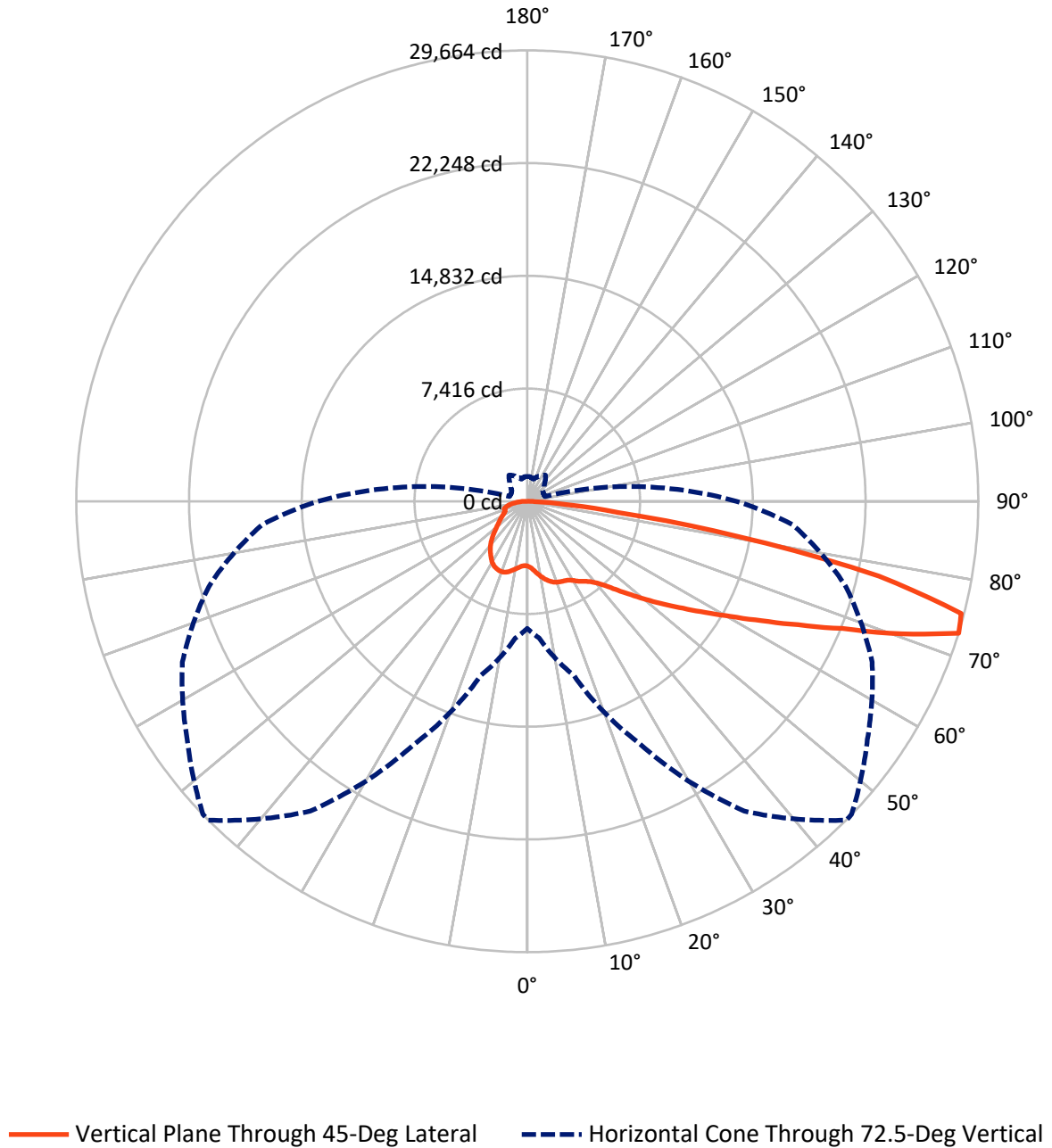
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - 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    | 9559.2   | 0.0    | 9559.2  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 32725.8  | 0.0    | 32725.8 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 42285.0  | 0.0    | 42285.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 434.2   | 1.0       |
| 10°-20°   | 1447.6  | 3.4       |
| 20°-30°   | 2518.1  | 6.0       |
| 30°-40°   | 3609.9  | 8.5       |
| 40°-50°   | 5082.9  | 12.0      |
| 50°-60°   | 7785.5  | 18.4      |
| 60°-70°   | 11278.5 | 26.7      |
| 70°-80°   | 9006.6  | 21.3      |
| 80°-90°   | 1121.7  | 2.7       |
| 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°    | 42285.0 | 100.0     |
| 0°-180°   | 42285.0 | 100.0     |



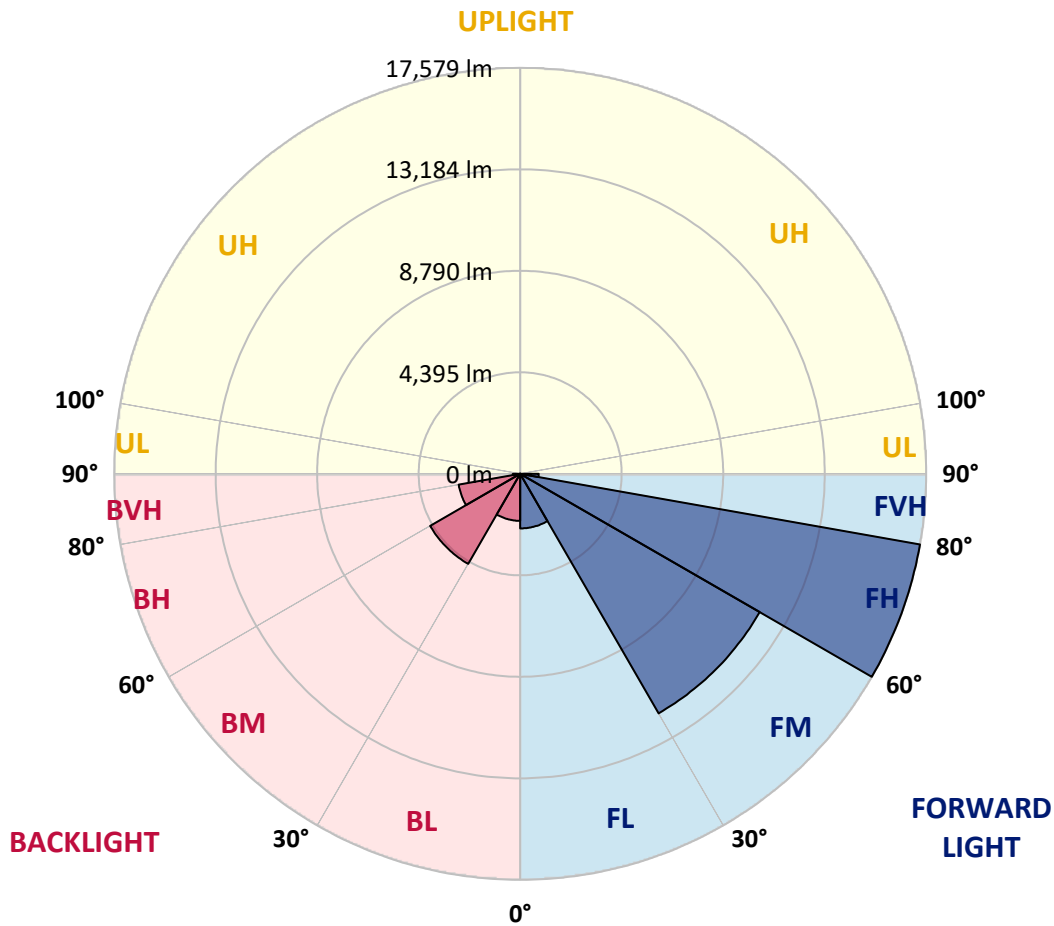
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2364.6  | 5.6       |                         |      |         |
| FM (30°-60°)   | 11977.3 | 28.3      |                         |      |         |
| FH (60°-80°)   | 17579.1 | 41.6      |                         |      | G5      |
| FVH (80°-90°)  | 804.7   | 1.9       |                         |      | G5      |
| BL (0°-30°)    | 2035.2  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 4501.0  | 10.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 2706.0  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 317.0   | 0.7       |                         |      | G3/500  |
| 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4265.7  | 4265.7  | 4265.7  | 4265.7  | 4265.7  | 4265.7  | 4265.7  | 4265.7  | 4265.7  | 4265.7  |
| 2.5°  | 4432.8  | 4461.8  | 4435.0  | 4410.5  | 4399.4  | 4370.4  | 4368.2  | 4350.4  | 4339.2  | 4308.1  |
| 5°    | 4742.4  | 4780.3  | 4735.7  | 4686.7  | 4642.2  | 4570.9  | 4562.0  | 4510.8  | 4452.8  | 4386.0  |
| 7.5°  | 5092.1  | 5125.6  | 5074.3  | 5000.8  | 4922.9  | 4804.8  | 4802.6  | 4709.0  | 4617.7  | 4504.1  |
| 10°   | 5397.3  | 5441.9  | 5372.8  | 5272.6  | 5174.6  | 5040.9  | 5025.3  | 4918.4  | 4802.6  | 4655.6  |
| 12.5° | 5666.9  | 5698.0  | 5631.2  | 5508.7  | 5395.1  | 5261.4  | 5241.4  | 5123.3  | 4994.1  | 4827.1  |
| 15°   | 5880.7  | 5920.8  | 5831.7  | 5700.3  | 5580.0  | 5448.6  | 5430.7  | 5323.8  | 5194.6  | 5018.6  |
| 17.5° | 6021.0  | 6054.4  | 5963.1  | 5816.1  | 5700.3  | 5591.1  | 5577.8  | 5488.7  | 5375.0  | 5196.8  |
| 20°   | 6074.5  | 6110.1  | 6014.4  | 5865.1  | 5758.2  | 5673.5  | 5666.9  | 5602.3  | 5524.3  | 5361.7  |
| 22.5° | 6128.0  | 6161.4  | 6036.6  | 5880.7  | 5787.1  | 5733.7  | 5731.5  | 5689.1  | 5657.9  | 5524.3  |
| 25°   | 6344.0  | 6352.9  | 6185.9  | 5960.9  | 5827.2  | 5780.5  | 5778.2  | 5776.0  | 5789.4  | 5684.7  |
| 27.5° | 6531.1  | 6528.9  | 6386.3  | 6174.7  | 5967.6  | 5869.6  | 5867.3  | 5889.6  | 5931.9  | 5845.1  |
| 30°   | 6805.1  | 6780.6  | 6611.3  | 6390.8  | 6201.5  | 6050.0  | 6036.6  | 6016.6  | 6050.0  | 5980.9  |
| 32.5° | 7386.5  | 7308.5  | 7034.6  | 6642.5  | 6395.3  | 6279.4  | 6261.6  | 6136.9  | 6150.2  | 6107.9  |
| 35°   | 8219.6  | 8117.1  | 7751.8  | 7119.2  | 6635.8  | 6471.0  | 6462.1  | 6303.9  | 6277.2  | 6239.3  |
| 37.5° | 9210.9  | 9083.9  | 8658.4  | 7809.7  | 7050.2  | 6693.7  | 6680.4  | 6537.8  | 6428.7  | 6388.6  |
| 40°   | 10206.6 | 10046.2 | 9694.2  | 8651.8  | 7660.5  | 7065.7  | 7023.4  | 6807.4  | 6682.6  | 6615.8  |
| 42.5° | 11173.3 | 11039.7 | 10739.0 | 9596.2  | 8413.4  | 7609.3  | 7515.7  | 7145.9  | 7052.4  | 6990.0  |
| 45°   | 12028.7 | 11908.4 | 11687.9 | 10605.3 | 9295.5  | 8348.8  | 8257.5  | 7653.8  | 7624.9  | 7624.9  |
| 47.5° | 12723.7 | 12697.0 | 12463.1 | 11634.4 | 10335.8 | 9190.8  | 9032.7  | 8359.9  | 8437.9  | 8558.2  |
| 50°   | 13494.4 | 13420.9 | 13171.4 | 12648.0 | 11558.7 | 10155.3 | 10026.1 | 9226.5  | 9518.3  | 9847.9  |
| 52.5° | 14202.8 | 14242.9 | 13964.4 | 13703.8 | 12939.8 | 11231.2 | 11004.0 | 10248.9 | 10879.3 | 11425.0 |
| 55°   | 14931.2 | 14933.4 | 14855.4 | 14819.8 | 14387.7 | 12420.7 | 12171.3 | 11478.5 | 12480.9 | 13158.1 |
| 57.5° | 15615.0 | 15619.5 | 15735.3 | 16049.4 | 16067.2 | 13792.9 | 13510.0 | 12988.8 | 14260.7 | 14951.2 |
| 60°   | 16225.4 | 16256.6 | 16572.9 | 17308.0 | 17544.1 | 15365.6 | 15098.2 | 14773.0 | 16100.6 | 16795.6 |
| 62.5° | 16430.3 | 16543.9 | 17247.8 | 18292.5 | 19003.1 | 17294.6 | 17031.7 | 16838.0 | 18034.1 | 18680.1 |
| 65°   | 16082.8 | 16343.4 | 17704.5 | 19105.6 | 20504.5 | 19586.7 | 19326.1 | 19114.5 | 20043.4 | 20651.5 |
| 67.5° | 15229.7 | 15566.0 | 17677.7 | 19958.7 | 22326.6 | 22344.4 | 22101.6 | 21604.9 | 22197.4 | 22431.3 |
| 70°   | 12982.1 | 13485.5 | 16120.7 | 20277.3 | 24418.3 | 26115.6 | 25881.8 | 24603.1 | 24347.0 | 23215.4 |
| 72.5° | 8364.4  | 9041.6  | 11870.5 | 17655.5 | 24883.8 | 29664.1 | 29650.7 | 27309.6 | 25026.4 | 21691.8 |
| 75°   | 3051.7  | 3466.0  | 5515.4  | 11082.0 | 20887.6 | 29483.7 | 29570.6 | 26846.3 | 22845.6 | 16755.5 |
| 77.5° | 1111.5  | 1216.2  | 1799.8  | 4259.1  | 12846.2 | 23656.4 | 23836.9 | 21462.3 | 16261.0 | 8409.0  |
| 80°   | 583.6   | 641.5   | 922.2   | 1652.8  | 5504.2  | 14049.1 | 14332.0 | 12754.9 | 7642.7  | 2532.7  |
| 82.5° | 323.0   | 349.7   | 516.8   | 897.7   | 2479.2  | 6007.7  | 6177.0  | 5038.7  | 2688.6  | 1073.7  |
| 85°   | 173.7   | 184.9   | 242.8   | 490.1   | 1211.8  | 2082.7  | 2129.5  | 1505.8  | 1071.4  | 630.4   |
| 87.5° | 51.2    | 62.4    | 80.2    | 155.9   | 474.5   | 467.8   | 478.9   | 298.5   | 423.2   | 318.5   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4265.7  | 0°    | 4265.7  | 4265.7  | 4265.7 | 4265.7 | 4265.7 | 4265.7 | 4265.7 | 4265.7 | 4265.7 | 4265.7 |
| 4299.1  | 2.5°  | 4285.8  | 4279.1  | 4254.6 | 4243.5 | 4230.1 | 4227.9 | 4239.0 | 4241.2 | 4243.5 | 4245.7 |
| 4348.2  | 5°    | 4325.9  | 4303.6  | 4281.3 | 4268.0 | 4272.4 | 4274.6 | 4296.9 | 4312.5 | 4323.6 | 4332.6 |
| 4439.5  | 7.5°  | 4403.8  | 4386.0  | 4348.2 | 4345.9 | 4352.6 | 4372.7 | 4401.6 | 4437.3 | 4457.3 | 4472.9 |
| 4557.5  | 10°   | 4519.7  | 4486.3  | 4441.7 | 4448.4 | 4461.8 | 4490.7 | 4550.9 | 4579.8 | 4613.2 | 4642.2 |
| 4702.3  | 12.5° | 4637.7  | 4608.8  | 4557.5 | 4562.0 | 4584.3 | 4635.5 | 4693.4 | 4729.1 | 4751.3 | 4773.6 |
| 4858.3  | 15°   | 4791.4  | 4740.2  | 4684.5 | 4684.5 | 4724.6 | 4780.3 | 4807.0 | 4836.0 | 4849.3 | 4873.9 |
| 5025.3  | 17.5° | 4949.6  | 4882.8  | 4809.3 | 4804.8 | 4853.8 | 4880.5 | 4896.1 | 4900.6 | 4905.0 | 4931.8 |
| 5187.9  | 20°   | 5107.7  | 5034.2  | 4929.5 | 4920.6 | 4931.8 | 4927.3 | 4925.1 | 4920.6 | 4927.3 | 4960.7 |
| 5355.0  | 22.5° | 5263.7  | 5179.0  | 5034.2 | 4994.1 | 4963.0 | 4920.6 | 4918.4 | 4916.2 | 4920.6 | 4954.0 |
| 5535.4  | 25°   | 5446.3  | 5343.9  | 5150.1 | 5029.8 | 4925.1 | 4867.2 | 4873.9 | 4876.1 | 4880.5 | 4907.3 |
| 5722.5  | 27.5° | 5644.6  | 5531.0  | 5257.0 | 5018.6 | 4829.3 | 4789.2 | 4778.1 | 4784.7 | 4800.3 | 4842.7 |
| 5909.7  | 30°   | 5842.8  | 5709.2  | 5355.0 | 4974.1 | 4709.0 | 4653.3 | 4617.7 | 4633.3 | 4682.3 | 4724.6 |
| 6072.3  | 32.5° | 6023.3  | 5889.6  | 5433.0 | 4876.1 | 4555.3 | 4468.4 | 4421.7 | 4441.7 | 4490.7 | 4506.3 |
| 6252.7  | 35°   | 6234.9  | 6083.4  | 5466.4 | 4720.2 | 4388.2 | 4254.6 | 4192.2 | 4163.3 | 4187.8 | 4172.2 |
| 6464.3  | 37.5° | 6471.0  | 6312.8  | 5461.9 | 4515.2 | 4192.2 | 4038.5 | 3951.7 | 3842.5 | 3791.3 | 3737.8 |
| 6776.2  | 40°   | 6820.7  | 6593.5  | 5408.5 | 4268.0 | 3949.4 | 3809.1 | 3653.2 | 3468.3 | 3352.4 | 3247.7 |
| 7279.6  | 42.5° | 7297.4  | 6983.3  | 5310.4 | 3996.2 | 3675.4 | 3544.0 | 3332.4 | 3116.3 | 2933.7 | 2759.9 |
| 8043.6  | 45°   | 8008.0  | 7493.4  | 5187.9 | 3706.6 | 3379.2 | 3250.0 | 3020.5 | 2777.7 | 2570.6 | 2347.8 |
| 9128.4  | 47.5° | 9032.7  | 8179.5  | 5072.1 | 3376.9 | 3067.3 | 2949.3 | 2742.1 | 2517.1 | 2272.1 | 2056.0 |
| 10696.6 | 50°   | 10440.5 | 9164.1  | 4965.2 | 3056.2 | 2759.9 | 2670.8 | 2506.0 | 2276.5 | 2029.3 | 1855.5 |
| 12534.4 | 52.5° | 12231.4 | 10502.8 | 4920.6 | 2746.6 | 2472.6 | 2439.2 | 2307.7 | 2093.9 | 1860.0 | 1713.0 |
| 14677.2 | 55°   | 14287.4 | 12104.4 | 4920.6 | 2450.3 | 2220.9 | 2232.0 | 2140.7 | 1942.4 | 1739.7 | 1608.3 |
| 16887.0 | 57.5° | 16385.8 | 13726.1 | 4831.5 | 2176.3 | 2007.0 | 2053.8 | 1995.9 | 1822.1 | 1639.5 | 1503.6 |
| 19210.3 | 60°   | 18319.3 | 15084.9 | 4470.7 | 1926.8 | 1817.7 | 1891.2 | 1853.3 | 1704.1 | 1481.3 | 1367.7 |
| 21152.7 | 62.5° | 19805.0 | 15851.2 | 3775.7 | 1728.6 | 1661.7 | 1746.4 | 1726.3 | 1548.1 | 1452.4 | 1405.6 |
| 22747.6 | 65°   | 20549.0 | 15726.4 | 2886.9 | 1552.6 | 1530.3 | 1661.7 | 1619.4 | 1612.7 | 1537.0 | 1483.5 |
| 23266.6 | 67.5° | 20092.4 | 14652.7 | 2093.9 | 1423.4 | 1454.6 | 1583.8 | 1746.4 | 1773.1 | 1632.8 | 1528.1 |
| 21805.4 | 70°   | 18089.8 | 12710.3 | 1559.3 | 1300.9 | 1358.8 | 1586.0 | 1991.4 | 1855.5 | 1601.6 | 1479.1 |
| 17488.4 | 72.5° | 13761.7 | 9478.2  | 1209.6 | 1171.7 | 1234.1 | 1597.1 | 2100.6 | 1817.7 | 1512.5 | 1635.0 |
| 10894.9 | 75°   | 7869.9  | 5203.5  | 971.2  | 1013.5 | 1078.1 | 1492.4 | 2044.9 | 1719.7 | 1443.4 | 1501.4 |
| 4317.0  | 77.5° | 3000.5  | 2000.3  | 801.9  | 857.6  | 866.5  | 1303.1 | 1955.8 | 1713.0 | 1374.4 | 1341.0 |
| 1294.2  | 80°   | 1040.3  | 781.9   | 663.8  | 681.6  | 670.5  | 1158.3 | 1875.6 | 1490.2 | 1124.9 | 1006.8 |
| 534.6   | 82.5° | 425.5   | 389.8   | 525.7  | 503.4  | 476.7  | 899.9  | 1514.7 | 1218.5 | 920.0  | 813.1  |
| 258.4   | 85°   | 184.9   | 247.3   | 347.5  | 305.2  | 276.2  | 623.7  | 1214.0 | 1031.3 | 777.4  | 670.5  |
| 84.6    | 87.5° | 37.9    | 93.6    | 147.0  | 138.1  | 142.6  | 416.5  | 862.1  | 732.9  | 550.2  | 412.1  |
| 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> |
|-------------|
| 4265.7      |
| 4254.6      |
| 4337.0      |
| 4477.3      |
| 4635.5      |
| 4782.5      |
| 4882.8      |
| 4940.7      |
| 4974.1      |
| 4976.3      |
| 4942.9      |
| 4885.0      |
| 4771.4      |
| 4562.0      |
| 4221.2      |
| 3771.2      |
| 3254.4      |
| 2744.3      |
| 2321.1      |
| 2031.5      |
| 1844.4      |
| 1701.8      |
| 1594.9      |
| 1481.3      |
| 1349.9      |
| 1390.0      |
| 1465.7      |
| 1510.3      |
| 1459.0      |
| 1621.6      |
| 1501.4      |
| 1222.9      |
| 973.4       |
| 804.1       |
| 668.3       |
| 323.0       |
| 0.0         |

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