

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: P955875

Luminaire Tested: **GALN-SB8C-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955875  
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-SB8C-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

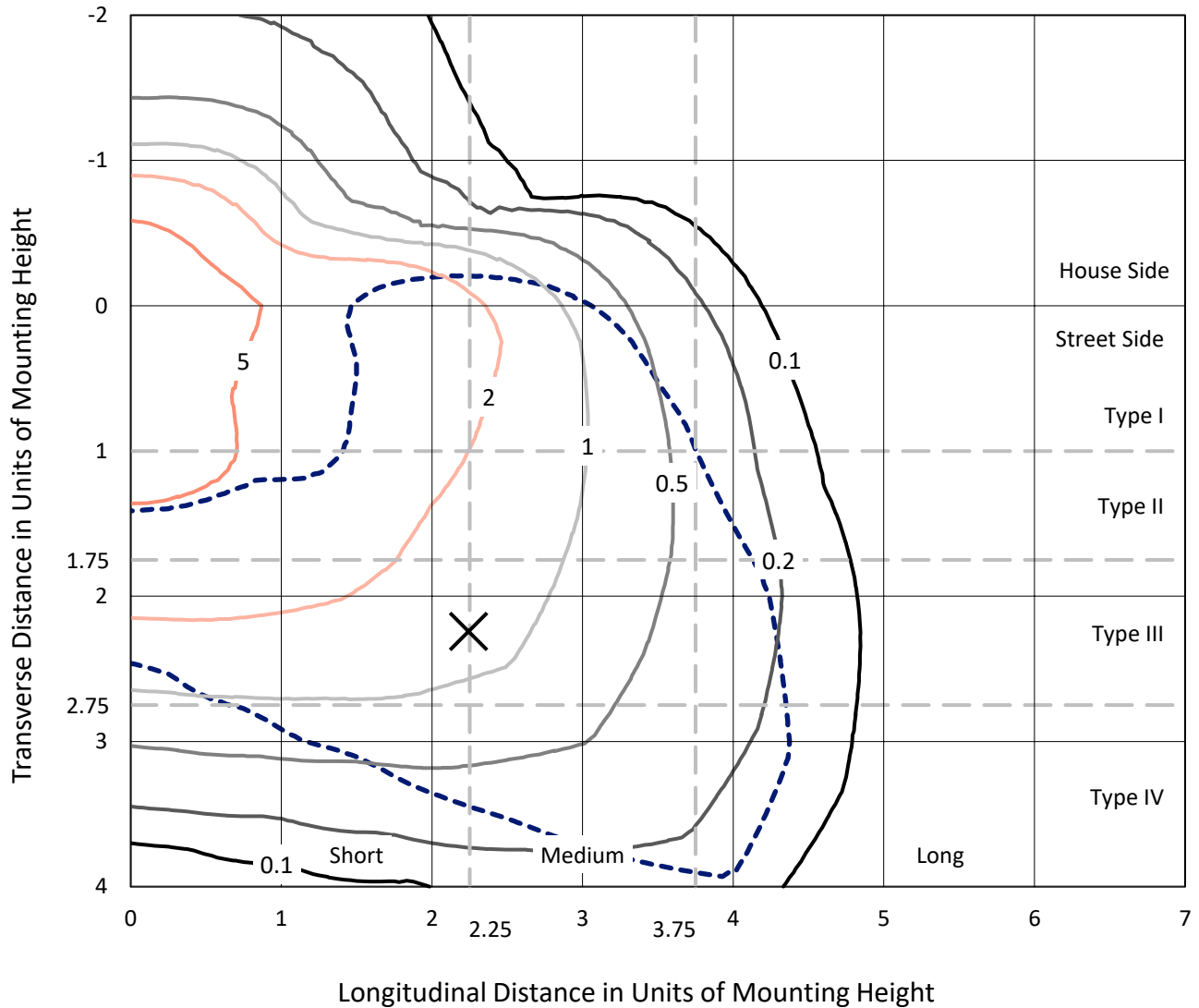
Lumens per Lamp: N/A  
Luminaire Lumens: 43797 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

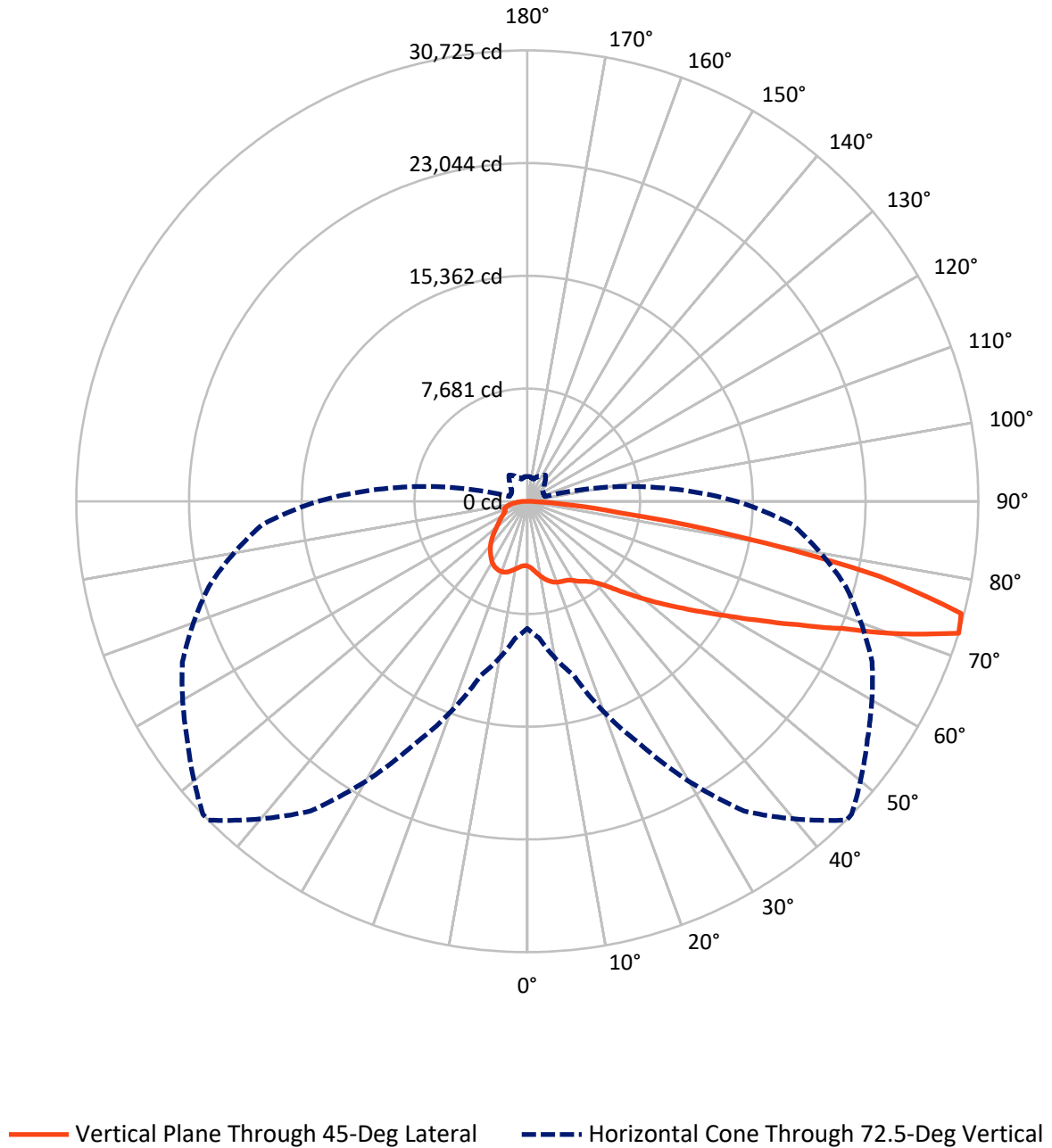
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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    | 9901.0   | 0.0    | 9901.0  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 33896.0  | 0.0    | 33896.0 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 43797.0  | 0.0    | 43797.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 449.7   | 1.0       |
| 10°-20°   | 1499.3  | 3.4       |
| 20°-30°   | 2608.2  | 6.0       |
| 30°-40°   | 3739.0  | 8.5       |
| 40°-50°   | 5264.7  | 12.0      |
| 50°-60°   | 8063.9  | 18.4      |
| 60°-70°   | 11681.8 | 26.7      |
| 70°-80°   | 9328.6  | 21.3      |
| 80°-90°   | 1161.8  | 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°    | 43797.0 | 100.0     |
| 0°-180°   | 43797.0 | 100.0     |

**Coefficient of Utilization**



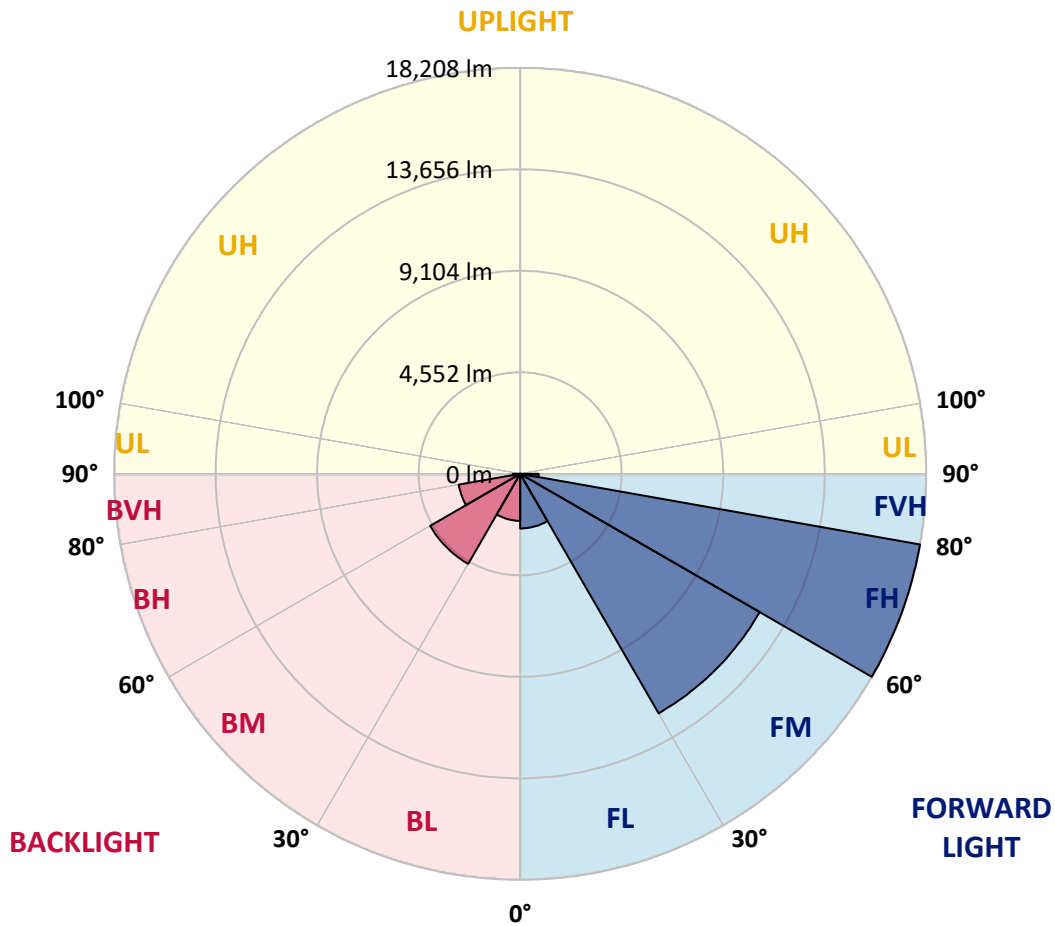
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2449.2  | 5.6       |                         |      |         |
| FM (30°-60°)   | 12405.6 | 28.3      |                         |      |         |
| FH (60°-80°)   | 18207.7 | 41.6      |                         |      | G5      |
| FVH (80°-90°)  | 833.5   | 1.9       |                         |      | G5      |
| BL (0°-30°)    | 2108.0  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 4662.0  | 10.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 2802.7  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 328.3   | 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°    | 4418.3  | 4418.3  | 4418.3  | 4418.3  | 4418.3  | 4418.3  | 4418.3  | 4418.3  | 4418.3  | 4418.3  |
| 2.5°  | 4591.3  | 4621.3  | 4593.6  | 4568.2  | 4556.7  | 4526.7  | 4524.4  | 4505.9  | 4494.4  | 4462.1  |
| 5°    | 4912.0  | 4951.2  | 4905.1  | 4854.3  | 4808.2  | 4734.3  | 4725.1  | 4672.1  | 4612.1  | 4542.9  |
| 7.5°  | 5274.2  | 5308.8  | 5255.8  | 5179.6  | 5098.9  | 4976.6  | 4974.3  | 4877.4  | 4782.8  | 4665.1  |
| 10°   | 5590.3  | 5636.5  | 5564.9  | 5461.1  | 5359.6  | 5221.2  | 5205.0  | 5094.3  | 4974.3  | 4822.0  |
| 12.5° | 5869.5  | 5901.8  | 5832.6  | 5705.7  | 5588.0  | 5449.6  | 5428.8  | 5306.5  | 5172.7  | 4999.7  |
| 15°   | 6091.0  | 6132.5  | 6040.2  | 5904.1  | 5779.5  | 5643.4  | 5624.9  | 5514.2  | 5380.4  | 5198.1  |
| 17.5° | 6236.3  | 6270.9  | 6176.3  | 6024.1  | 5904.1  | 5791.0  | 5777.2  | 5684.9  | 5567.2  | 5382.7  |
| 20°   | 6291.7  | 6328.6  | 6229.4  | 6074.8  | 5964.1  | 5876.4  | 5869.5  | 5802.6  | 5721.8  | 5553.4  |
| 22.5° | 6347.1  | 6381.7  | 6252.5  | 6091.0  | 5994.1  | 5938.7  | 5936.4  | 5892.6  | 5860.3  | 5721.8  |
| 25°   | 6570.9  | 6580.1  | 6407.1  | 6174.0  | 6035.6  | 5987.2  | 5984.8  | 5982.5  | 5996.4  | 5887.9  |
| 27.5° | 6764.7  | 6762.4  | 6614.7  | 6395.5  | 6181.0  | 6079.4  | 6077.1  | 6100.2  | 6144.0  | 6054.1  |
| 30°   | 7048.5  | 7023.1  | 6847.7  | 6619.3  | 6423.2  | 6266.3  | 6252.5  | 6231.7  | 6266.3  | 6194.8  |
| 32.5° | 7650.6  | 7569.9  | 7286.1  | 6880.0  | 6623.9  | 6504.0  | 6485.5  | 6356.3  | 6370.1  | 6326.3  |
| 35°   | 8513.5  | 8407.4  | 8029.0  | 7373.8  | 6873.1  | 6702.4  | 6693.2  | 6529.3  | 6501.7  | 6462.4  |
| 37.5° | 9540.2  | 9408.7  | 8968.0  | 8089.0  | 7302.2  | 6933.1  | 6919.3  | 6771.6  | 6658.5  | 6617.0  |
| 40°   | 10571.5 | 10405.4 | 10040.9 | 8961.1  | 7934.4  | 7318.4  | 7274.6  | 7050.8  | 6921.6  | 6852.3  |
| 42.5° | 11572.9 | 11434.4 | 11123.0 | 9939.4  | 8714.2  | 7881.4  | 7784.5  | 7401.5  | 7304.6  | 7240.0  |
| 45°   | 12458.8 | 12334.2 | 12105.8 | 10984.5 | 9627.9  | 8647.3  | 8552.7  | 7927.5  | 7897.5  | 7897.5  |
| 47.5° | 13178.7 | 13151.0 | 12908.7 | 12050.4 | 10705.4 | 9519.5  | 9355.6  | 8658.9  | 8739.6  | 8864.2  |
| 50°   | 13976.9 | 13900.8 | 13642.4 | 13100.2 | 11972.0 | 10518.5 | 10384.7 | 9556.4  | 9858.6  | 10200.1 |
| 52.5° | 14710.6 | 14752.2 | 14463.8 | 14193.8 | 13402.5 | 11632.8 | 11397.5 | 10615.4 | 11268.3 | 11833.6 |
| 55°   | 15465.1 | 15467.4 | 15386.6 | 15349.7 | 14902.1 | 12864.9 | 12606.5 | 11888.9 | 12927.2 | 13628.6 |
| 57.5° | 16173.4 | 16178.0 | 16298.0 | 16623.3 | 16641.7 | 14286.1 | 13993.1 | 13453.2 | 14770.6 | 15485.8 |
| 60°   | 16805.6 | 16837.9 | 17165.5 | 17926.9 | 18171.4 | 15915.0 | 15638.1 | 15301.3 | 16676.4 | 17396.2 |
| 62.5° | 17017.8 | 17135.5 | 17864.6 | 18946.6 | 19682.6 | 17913.0 | 17640.8 | 17440.0 | 18679.0 | 19348.1 |
| 65°   | 16657.9 | 16927.8 | 18337.5 | 19788.8 | 21237.7 | 20287.1 | 20017.2 | 19798.0 | 20760.1 | 21389.9 |
| 67.5° | 15774.2 | 16122.6 | 18309.8 | 20672.4 | 23124.9 | 23143.4 | 22891.9 | 22377.4 | 22991.1 | 23233.4 |
| 70°   | 13446.3 | 13967.7 | 16697.1 | 21002.3 | 25291.4 | 27049.5 | 26807.2 | 25482.9 | 25217.6 | 24045.5 |
| 72.5° | 8663.5  | 9364.9  | 12295.0 | 18286.8 | 25773.6 | 30724.8 | 30711.0 | 28286.1 | 25921.3 | 22467.4 |
| 75°   | 3160.8  | 3590.0  | 5712.6  | 11478.3 | 21634.5 | 30537.9 | 30627.9 | 27806.2 | 23662.5 | 17354.7 |
| 77.5° | 1151.3  | 1259.7  | 1864.2  | 4411.3  | 13305.6 | 24502.3 | 24689.2 | 22229.8 | 16842.5 | 8709.6  |
| 80°   | 604.5   | 664.5   | 955.2   | 1711.9  | 5701.1  | 14551.4 | 14844.4 | 13211.0 | 7916.0  | 2623.3  |
| 82.5° | 334.5   | 362.2   | 535.3   | 929.8   | 2567.9  | 6222.5  | 6397.8  | 5218.9  | 2784.8  | 1112.1  |
| 85°   | 180.0   | 191.5   | 251.5   | 507.6   | 1255.1  | 2157.2  | 2205.7  | 1559.7  | 1109.8  | 652.9   |
| 87.5° | 53.1    | 64.6    | 83.1    | 161.5   | 491.4   | 484.5   | 496.0   | 309.2   | 438.4   | 329.9   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4418.3  | 0°    | 4418.3  | 4418.3  | 4418.3 | 4418.3 | 4418.3 | 4418.3 | 4418.3 | 4418.3 | 4418.3 | 4418.3 |
| 4452.9  | 2.5°  | 4439.0  | 4432.1  | 4406.7 | 4395.2 | 4381.3 | 4379.0 | 4390.6 | 4392.9 | 4395.2 | 4397.5 |
| 4503.6  | 5°    | 4480.6  | 4457.5  | 4434.4 | 4420.6 | 4425.2 | 4427.5 | 4450.6 | 4466.7 | 4478.3 | 4487.5 |
| 4598.2  | 7.5°  | 4561.3  | 4542.9  | 4503.6 | 4501.3 | 4508.2 | 4529.0 | 4559.0 | 4595.9 | 4616.7 | 4632.8 |
| 4720.5  | 10°   | 4681.3  | 4646.7  | 4600.5 | 4607.5 | 4621.3 | 4651.3 | 4713.6 | 4743.6 | 4778.2 | 4808.2 |
| 4870.5  | 12.5° | 4803.6  | 4773.6  | 4720.5 | 4725.1 | 4748.2 | 4801.3 | 4861.2 | 4898.2 | 4921.2 | 4944.3 |
| 5032.0  | 15°   | 4962.8  | 4909.7  | 4852.0 | 4852.0 | 4893.5 | 4951.2 | 4978.9 | 5008.9 | 5022.7 | 5048.1 |
| 5205.0  | 17.5° | 5126.6  | 5057.4  | 4981.2 | 4976.6 | 5027.4 | 5055.0 | 5071.2 | 5075.8 | 5080.4 | 5108.1 |
| 5373.4  | 20°   | 5290.4  | 5214.2  | 5105.8 | 5096.6 | 5108.1 | 5103.5 | 5101.2 | 5096.6 | 5103.5 | 5138.1 |
| 5546.5  | 22.5° | 5451.9  | 5364.2  | 5214.2 | 5172.7 | 5140.4 | 5096.6 | 5094.3 | 5092.0 | 5096.6 | 5131.2 |
| 5733.4  | 25°   | 5641.1  | 5534.9  | 5334.2 | 5209.6 | 5101.2 | 5041.2 | 5048.1 | 5050.4 | 5055.0 | 5082.7 |
| 5927.2  | 27.5° | 5846.4  | 5728.7  | 5445.0 | 5198.1 | 5002.0 | 4960.5 | 4948.9 | 4955.8 | 4972.0 | 5015.8 |
| 6121.0  | 30°   | 6051.8  | 5913.3  | 5546.5 | 5152.0 | 4877.4 | 4819.7 | 4782.8 | 4799.0 | 4849.7 | 4893.5 |
| 6289.4  | 32.5° | 6238.6  | 6100.2  | 5627.2 | 5050.4 | 4718.2 | 4628.2 | 4579.8 | 4600.5 | 4651.3 | 4667.4 |
| 6476.3  | 35°   | 6457.8  | 6300.9  | 5661.8 | 4888.9 | 4545.2 | 4406.7 | 4342.1 | 4312.1 | 4337.5 | 4321.4 |
| 6695.5  | 37.5° | 6702.4  | 6538.6  | 5657.2 | 4676.7 | 4342.1 | 4182.9 | 4093.0 | 3979.9 | 3926.8 | 3871.5 |
| 7018.5  | 40°   | 7064.6  | 6829.3  | 5601.9 | 4420.6 | 4090.6 | 3945.3 | 3783.8 | 3592.3 | 3472.3 | 3363.9 |
| 7539.9  | 42.5° | 7558.3  | 7233.0  | 5500.3 | 4139.1 | 3806.9 | 3670.7 | 3451.6 | 3227.8 | 3038.6 | 2858.6 |
| 8331.3  | 45°   | 8294.3  | 7761.4  | 5373.4 | 3839.2 | 3500.0 | 3366.2 | 3128.5 | 2877.1 | 2662.5 | 2431.8 |
| 9454.9  | 47.5° | 9355.6  | 8472.0  | 5253.5 | 3497.7 | 3177.0 | 3054.7 | 2840.1 | 2607.1 | 2353.3 | 2129.5 |
| 11079.1 | 50°   | 10813.8 | 9491.8  | 5142.7 | 3165.5 | 2858.6 | 2766.3 | 2595.6 | 2357.9 | 2101.8 | 1921.9 |
| 12982.5 | 52.5° | 12668.8 | 10878.4 | 5096.6 | 2844.8 | 2561.0 | 2526.4 | 2390.2 | 2168.8 | 1926.5 | 1774.2 |
| 15202.1 | 55°   | 14798.3 | 12537.3 | 5096.6 | 2537.9 | 2300.3 | 2311.8 | 2217.2 | 2011.9 | 1801.9 | 1665.8 |
| 17490.8 | 57.5° | 16971.7 | 14216.9 | 5004.3 | 2254.1 | 2078.8 | 2127.2 | 2067.2 | 1887.3 | 1698.1 | 1557.4 |
| 19897.2 | 60°   | 18974.3 | 15624.3 | 4630.5 | 1995.7 | 1882.7 | 1958.8 | 1919.6 | 1765.0 | 1534.3 | 1416.6 |
| 21909.1 | 62.5° | 20513.2 | 16417.9 | 3910.7 | 1790.4 | 1721.2 | 1808.8 | 1788.1 | 1603.5 | 1504.3 | 1455.8 |
| 23561.0 | 65°   | 21283.8 | 16288.7 | 2990.1 | 1608.1 | 1585.0 | 1721.2 | 1677.3 | 1670.4 | 1592.0 | 1536.6 |
| 24098.6 | 67.5° | 20810.8 | 15176.7 | 2168.8 | 1474.3 | 1506.6 | 1640.4 | 1808.8 | 1836.5 | 1691.2 | 1582.7 |
| 22585.1 | 70°   | 18736.7 | 13164.8 | 1615.0 | 1347.4 | 1407.4 | 1642.7 | 2062.6 | 1921.9 | 1658.9 | 1532.0 |
| 18113.7 | 72.5° | 14253.8 | 9817.1  | 1252.8 | 1213.6 | 1278.2 | 1654.3 | 2175.7 | 1882.7 | 1566.6 | 1693.5 |
| 11284.5 | 75°   | 8151.3  | 5389.6  | 1005.9 | 1049.8 | 1116.7 | 1545.8 | 2118.0 | 1781.1 | 1495.1 | 1555.0 |
| 4471.3  | 77.5° | 3107.8  | 2071.9  | 830.6  | 888.3  | 897.5  | 1349.7 | 2025.7 | 1774.2 | 1423.5 | 1388.9 |
| 1340.5  | 80°   | 1077.5  | 809.8   | 687.5  | 706.0  | 694.5  | 1199.7 | 1942.7 | 1543.5 | 1165.1 | 1042.8 |
| 553.7   | 82.5° | 440.7   | 403.8   | 544.5  | 521.4  | 493.7  | 932.1  | 1568.9 | 1262.0 | 952.9  | 842.1  |
| 267.6   | 85°   | 191.5   | 256.1   | 359.9  | 316.1  | 286.1  | 646.0  | 1257.4 | 1068.2 | 805.2  | 694.5  |
| 87.7    | 87.5° | 39.2    | 96.9    | 152.3  | 143.0  | 147.7  | 431.4  | 892.9  | 759.1  | 569.9  | 426.8  |
| 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> |
|-------------|
| 4418.3      |
| 4406.7      |
| 4492.1      |
| 4637.4      |
| 4801.3      |
| 4953.5      |
| 5057.4      |
| 5117.3      |
| 5152.0      |
| 5154.3      |
| 5119.6      |
| 5059.7      |
| 4942.0      |
| 4725.1      |
| 4372.1      |
| 3906.1      |
| 3370.8      |
| 2842.5      |
| 2404.1      |
| 2104.2      |
| 1910.4      |
| 1762.7      |
| 1651.9      |
| 1534.3      |
| 1398.2      |
| 1439.7      |
| 1518.1      |
| 1564.3      |
| 1511.2      |
| 1679.6      |
| 1555.0      |
| 1266.6      |
| 1008.2      |
| 832.9       |
| 692.2       |
| 334.5       |
| 0.0         |

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