

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: P944049

Luminaire Tested: **GALN-SB8D-760-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-760-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

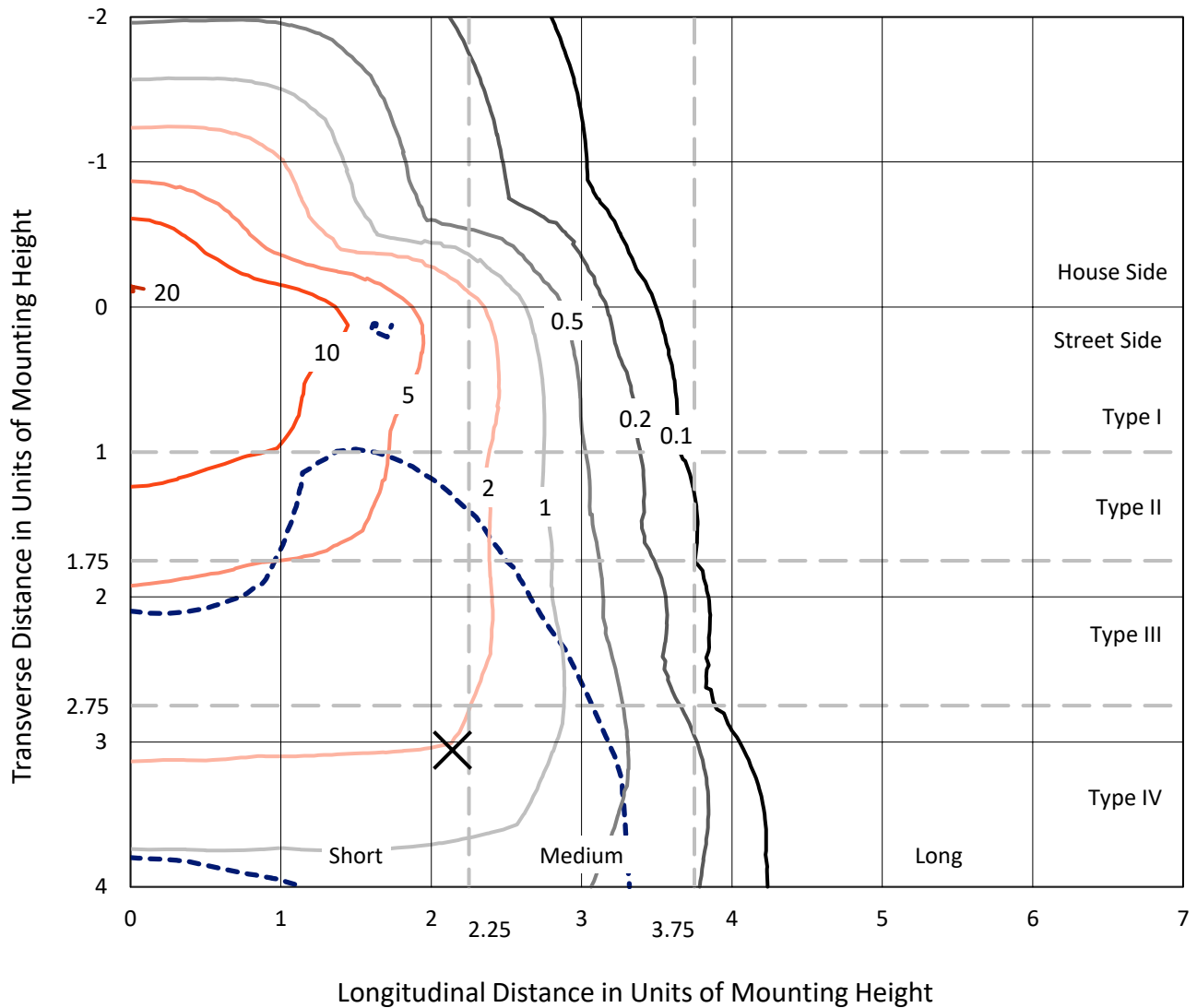
Lumens per Lamp: N/A  
Luminaire Lumens: 86043 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

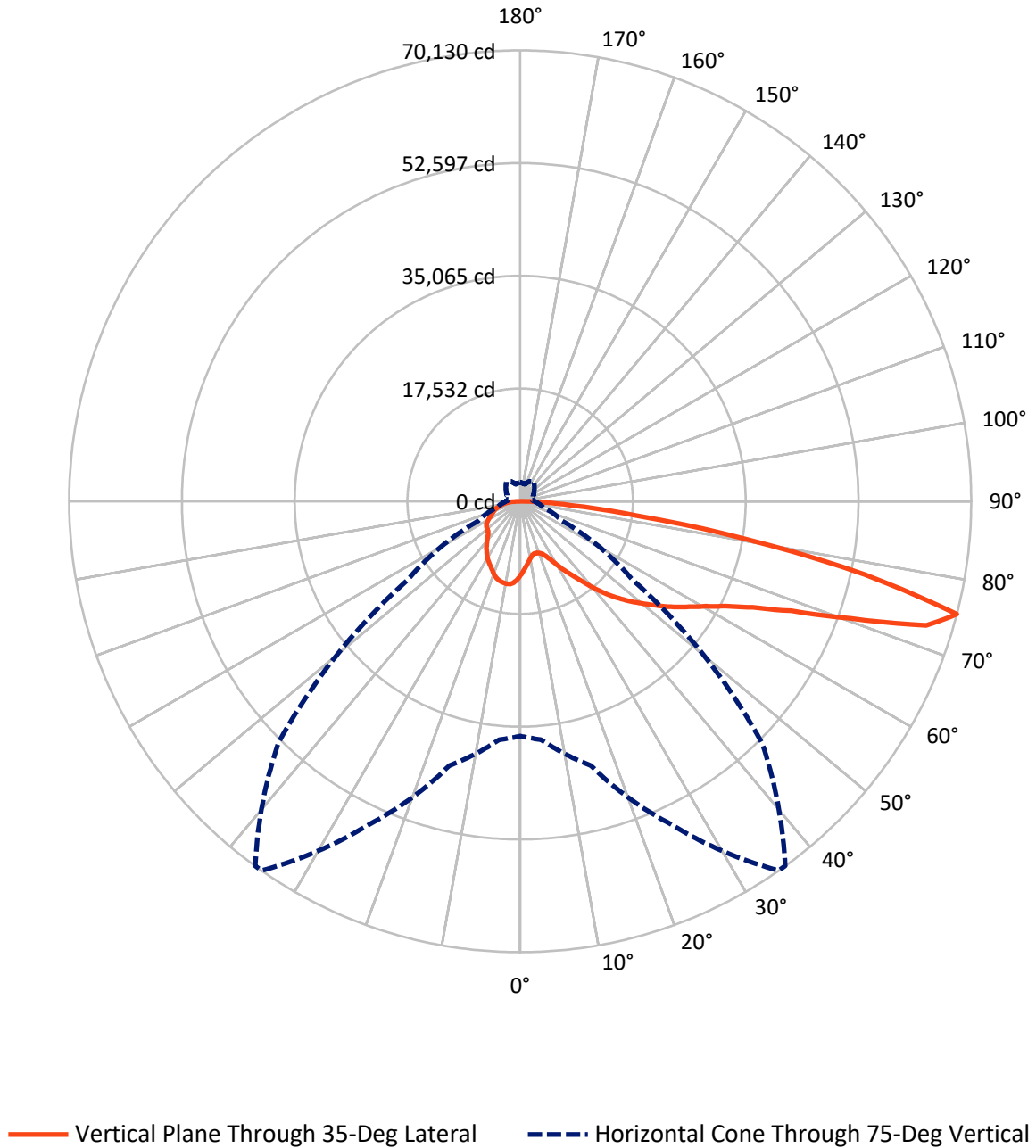
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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    | 20476.1  | 0.0    | 20476.1 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 65566.9  | 0.0    | 65566.9 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 86043.0  | 0.0    | 86043.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1085.6  | 1.3       |
| 10°-20°   | 3131.3  | 3.6       |
| 20°-30°   | 5258.3  | 6.1       |
| 30°-40°   | 8172.1  | 9.5       |
| 40°-50°   | 12129.5 | 14.1      |
| 50°-60°   | 16745.5 | 19.5      |
| 60°-70°   | 20316.1 | 23.6      |
| 70°-80°   | 16789.7 | 19.5      |
| 80°-90°   | 2414.9  | 2.8       |
| 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°    | 86043.0 | 100.0     |
| 0°-180°   | 86043.0 | 100.0     |

**Coefficient of Utilization**



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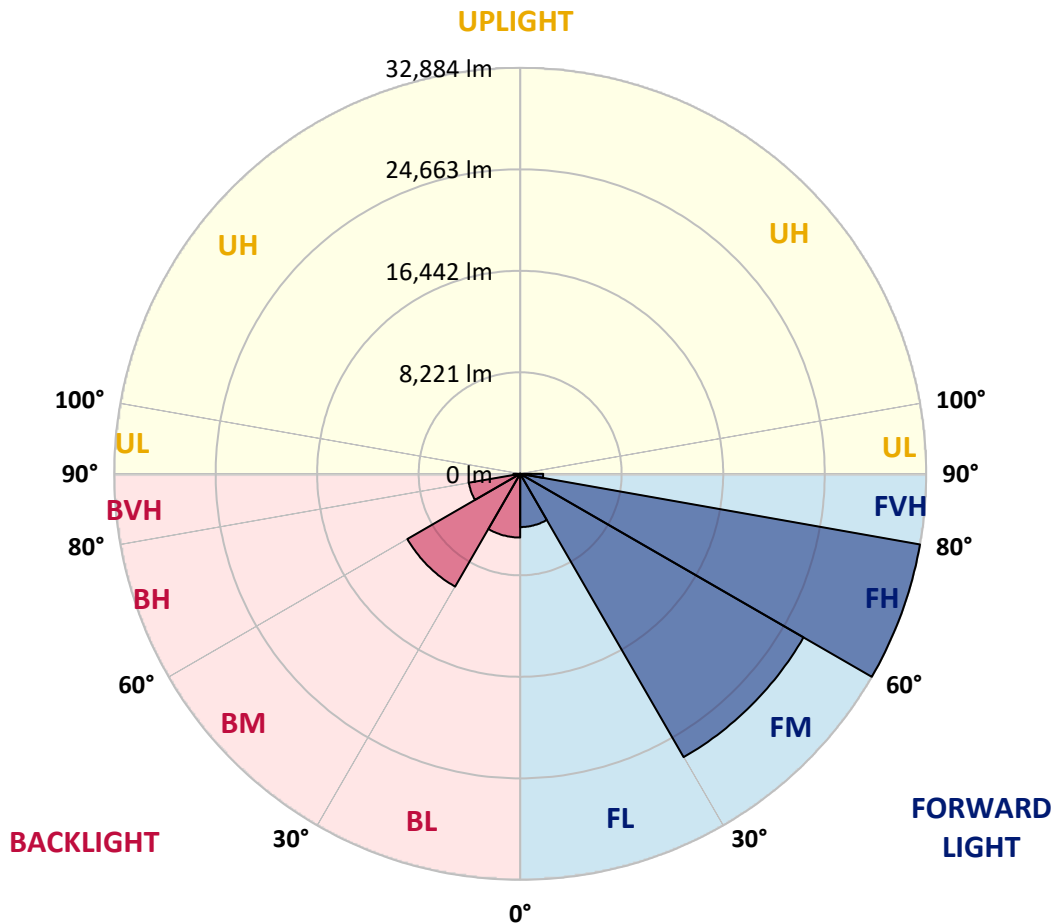
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4314.9  | 5.0       |                         |      |         |
| FM (30°-60°)   | 26496.6 | 30.8      |                         |      |         |
| FH (60°-80°)   | 32884.3 | 38.2      |                         |      | G5      |
| FVH (80°-90°)  | 1871.1  | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 5160.2  | 6.0       | B5                      |      |         |
| BM (30°-60°)   | 10550.5 | 12.3      | B5                      |      |         |
| BH (60°-80°)   | 4221.5  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 543.8   | 0.6       |                         |      | G4/750  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 |
| 2.5°  | 10572.7 | 10637.9 | 10665.8 | 10651.8 | 10721.6 | 10712.3 | 10810.0 | 10930.9 | 11098.3 | 11261.1 |
| 5°    | 9758.7  | 9828.5  | 9889.0  | 9944.8  | 10079.7 | 10121.5 | 10275.0 | 10507.6 | 10814.6 | 11126.3 |
| 7.5°  | 9000.5  | 9061.0  | 9154.0  | 9256.4  | 9484.3  | 9526.2  | 9782.0  | 10144.8 | 10572.7 | 11028.6 |
| 10°   | 8381.9  | 8442.4  | 8540.1  | 8656.3  | 8940.1  | 8991.2  | 9316.8  | 9800.6  | 10358.8 | 10935.5 |
| 12.5° | 8116.8  | 8135.4  | 8191.2  | 8307.5  | 8554.0  | 8586.6  | 8944.7  | 9498.3  | 10149.5 | 10865.8 |
| 15°   | 8102.8  | 8140.0  | 8144.7  | 8205.1  | 8409.8  | 8423.8  | 8754.0  | 9302.9  | 10019.2 | 10851.8 |
| 17.5° | 8242.4  | 8270.3  | 8228.4  | 8265.6  | 8437.7  | 8461.0  | 8721.5  | 9209.9  | 9977.3  | 10912.3 |
| 20°   | 8614.5  | 8637.7  | 8512.1  | 8461.0  | 8586.6  | 8605.2  | 8861.0  | 9270.3  | 10019.2 | 11037.9 |
| 22.5° | 9405.2  | 9419.2  | 9112.2  | 8902.9  | 8912.2  | 8921.5  | 9144.7  | 9516.9  | 10182.0 | 11265.8 |
| 25°   | 10637.9 | 10628.6 | 10140.1 | 9735.5  | 9502.9  | 9451.7  | 9600.6  | 9916.9  | 10456.4 | 11568.1 |
| 27.5° | 12079.8 | 12010.0 | 11521.6 | 10916.9 | 10409.9 | 10335.5 | 10303.0 | 10437.8 | 10847.2 | 11968.2 |
| 30°   | 13707.8 | 13642.7 | 13117.1 | 12326.3 | 11624.0 | 11503.0 | 11196.0 | 11126.3 | 11428.6 | 12512.4 |
| 32.5° | 15494.0 | 15452.1 | 14824.2 | 13866.0 | 12926.4 | 12786.8 | 12270.5 | 12084.5 | 12321.7 | 13335.7 |
| 35°   | 16991.7 | 16954.5 | 16433.6 | 15447.4 | 14298.5 | 14126.4 | 13600.8 | 13391.5 | 13512.4 | 14391.6 |
| 37.5° | 18345.3 | 18326.7 | 17880.2 | 17103.4 | 15917.2 | 15707.9 | 15117.2 | 15047.4 | 15024.2 | 15782.4 |
| 40°   | 19601.2 | 19554.7 | 19089.5 | 18680.2 | 17801.1 | 17610.4 | 17089.4 | 17028.9 | 16852.2 | 17494.1 |
| 42.5° | 20992.0 | 20871.0 | 20196.6 | 20005.9 | 19768.6 | 19610.5 | 19298.8 | 19308.1 | 18917.4 | 19424.4 |
| 45°   | 22126.9 | 22057.2 | 21364.1 | 21252.5 | 21508.3 | 21443.2 | 21712.9 | 21782.7 | 21024.5 | 21447.8 |
| 47.5° | 23345.6 | 23280.5 | 22694.4 | 22615.3 | 23308.4 | 23327.0 | 24280.5 | 24303.8 | 23080.5 | 23550.3 |
| 50°   | 24848.0 | 24755.0 | 24173.6 | 24271.2 | 25048.0 | 25117.8 | 26862.1 | 26703.9 | 24973.6 | 25685.3 |
| 52.5° | 25838.8 | 25894.6 | 25769.0 | 25927.2 | 26987.7 | 27052.8 | 29401.8 | 28997.1 | 26848.1 | 27792.4 |
| 55°   | 26569.1 | 26680.7 | 27071.4 | 27434.2 | 29034.3 | 29099.4 | 31797.3 | 31178.6 | 28401.7 | 29746.0 |
| 57.5° | 27508.6 | 27350.5 | 28080.8 | 28787.8 | 30978.6 | 31150.7 | 34127.7 | 33281.1 | 29778.6 | 31429.8 |
| 60°   | 28857.6 | 28745.9 | 29313.4 | 30360.0 | 33155.5 | 33429.9 | 36592.9 | 35174.2 | 30787.9 | 32764.8 |
| 62.5° | 31592.6 | 31313.5 | 31401.9 | 32327.5 | 35899.9 | 36262.7 | 39374.5 | 36825.5 | 31290.3 | 33285.7 |
| 65°   | 35681.2 | 35202.1 | 34755.6 | 35397.5 | 39765.2 | 40123.4 | 42514.2 | 38123.2 | 31104.2 | 32276.4 |
| 67.5° | 40830.4 | 40355.9 | 39807.1 | 40411.8 | 45458.6 | 45742.3 | 46388.9 | 38853.5 | 29639.0 | 28387.8 |
| 70°   | 45077.2 | 44900.4 | 45556.3 | 48044.8 | 54552.1 | 54561.4 | 51356.6 | 38248.8 | 25624.8 | 20126.8 |
| 72.5° | 44514.3 | 44407.3 | 47863.4 | 55556.9 | 66013.3 | 65766.8 | 56059.2 | 33671.8 | 17261.5 | 9079.6  |
| 75°   | 36518.5 | 37211.6 | 42565.4 | 55422.0 | 70129.8 | 70097.3 | 53180.0 | 21405.9 | 7140.0  | 3763.0  |
| 77.5° | 19582.6 | 20680.3 | 27634.2 | 40918.8 | 54747.5 | 55570.8 | 37388.3 | 7488.8  | 3065.3  | 2409.4  |
| 80°   | 6386.4  | 7344.6  | 11014.6 | 20833.8 | 35574.3 | 35420.8 | 16024.2 | 2939.7  | 2097.8  | 1707.1  |
| 82.5° | 2711.8  | 2823.4  | 4921.2  | 9837.8  | 18256.9 | 17973.2 | 5102.6  | 1688.5  | 1474.5  | 1167.5  |
| 85°   | 1060.5  | 1186.1  | 2172.2  | 4549.1  | 7907.5  | 7735.4  | 1842.0  | 837.3   | 944.2   | 762.8   |
| 87.5° | 348.9   | 423.3   | 776.8   | 1558.2  | 2460.6  | 2372.2  | 451.2   | 288.4   | 409.3   | 348.9   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11465.8 | 0°    | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 | 11465.8 |
| 11498.4 | 2.5°  | 11563.5 | 11637.9 | 11726.3 | 11856.5 | 11968.2 | 12061.2 | 12158.9 | 12219.3 | 12242.6 | 12312.4 |
| 11517.0 | 5°    | 11647.2 | 11810.0 | 12028.6 | 12242.6 | 12451.9 | 12577.5 | 12689.1 | 12745.0 | 12796.1 | 12833.3 |
| 11568.1 | 7.5°  | 11786.8 | 11996.1 | 12340.3 | 12619.4 | 12796.1 | 12898.5 | 12972.9 | 12954.3 | 12972.9 | 12982.2 |
| 11624.0 | 10°   | 11907.7 | 12200.7 | 12610.1 | 12875.2 | 13010.1 | 13014.7 | 12996.1 | 12931.0 | 12898.5 | 12903.1 |
| 11707.7 | 12.5° | 12051.9 | 12377.5 | 12819.4 | 13042.7 | 13079.9 | 12977.5 | 12898.5 | 12786.8 | 12745.0 | 12726.4 |
| 11833.3 | 15°   | 12247.3 | 12619.4 | 13047.3 | 13131.0 | 13038.0 | 12907.8 | 12772.9 | 12591.5 | 12498.4 | 12424.0 |
| 12047.2 | 17.5° | 12484.5 | 12893.8 | 13224.1 | 13163.6 | 12963.6 | 12749.6 | 12531.0 | 12256.6 | 12065.8 | 11986.8 |
| 12340.3 | 20°   | 12814.7 | 13182.2 | 13358.9 | 13093.8 | 12791.5 | 12465.9 | 12093.8 | 11758.9 | 11582.1 | 11503.0 |
| 12712.4 | 22.5° | 13214.8 | 13568.3 | 13489.2 | 12972.9 | 12544.9 | 12024.0 | 11558.8 | 11312.3 | 11223.9 | 11168.1 |
| 13191.5 | 25°   | 13693.9 | 13996.2 | 13582.2 | 12796.1 | 12140.3 | 11437.9 | 11079.7 | 11000.7 | 10958.8 | 10916.9 |
| 13777.6 | 27.5° | 14317.1 | 14479.9 | 13652.0 | 12535.6 | 11507.7 | 10814.6 | 10684.4 | 10698.3 | 10684.4 | 10614.6 |
| 14591.6 | 30°   | 15140.5 | 15107.9 | 13717.1 | 12112.4 | 10782.0 | 10251.8 | 10261.1 | 10321.6 | 10330.9 | 10284.3 |
| 15726.5 | 32.5° | 16224.2 | 15894.0 | 13749.7 | 11563.5 | 10089.0 | 9758.7  | 9768.0  | 9833.2  | 9879.7  | 9800.6  |
| 17210.3 | 35°   | 17535.9 | 16810.3 | 13698.5 | 10875.1 | 9554.1  | 9288.9  | 9219.2  | 9237.8  | 9251.7  | 9177.3  |
| 19010.5 | 37.5° | 19066.3 | 17838.3 | 13470.6 | 10112.2 | 9112.2  | 8828.4  | 8679.6  | 8554.0  | 8479.6  | 8409.8  |
| 21047.8 | 40°   | 20745.4 | 18959.3 | 13052.0 | 9368.0  | 8619.1  | 8340.0  | 8116.8  | 7879.5  | 7628.4  | 7535.3  |
| 23206.1 | 42.5° | 22503.7 | 20112.8 | 12544.9 | 8656.3  | 8051.7  | 7823.7  | 7586.5  | 7242.3  | 6865.5  | 6674.8  |
| 25448.1 | 45°   | 24327.1 | 21294.3 | 12047.2 | 7954.0  | 7470.2  | 7372.5  | 7098.1  | 6684.1  | 6274.8  | 6032.9  |
| 27694.7 | 47.5° | 26113.2 | 22410.7 | 11317.0 | 7247.0  | 6926.0  | 7033.0  | 6819.0  | 6437.6  | 5981.8  | 5600.3  |
| 29922.7 | 50°   | 27820.3 | 23457.2 | 10121.5 | 6530.6  | 6484.1  | 6930.7  | 6726.0  | 6177.1  | 5656.2  | 5167.8  |
| 32108.9 | 52.5° | 29513.4 | 24303.8 | 8591.2  | 5879.4  | 6246.9  | 6902.7  | 6605.1  | 6000.4  | 5363.1  | 4851.5  |
| 34164.9 | 55°   | 30950.7 | 24741.0 | 7116.7  | 5321.3  | 5902.7  | 6665.5  | 6460.9  | 5791.0  | 4949.1  | 4404.9  |
| 35574.3 | 57.5° | 31769.4 | 24387.5 | 5888.7  | 4772.4  | 5428.2  | 6274.8  | 6214.3  | 5344.5  | 4456.1  | 4037.5  |
| 35848.7 | 60°   | 31415.9 | 22954.9 | 4884.0  | 4293.3  | 4977.0  | 5851.5  | 5786.4  | 4902.6  | 4079.3  | 3683.9  |
| 34378.8 | 62.5° | 29466.9 | 20224.5 | 4088.6  | 3874.7  | 4567.7  | 5418.9  | 5358.5  | 4563.1  | 3790.9  | 3409.5  |
| 30476.3 | 65°   | 25541.1 | 16452.2 | 3470.0  | 3525.8  | 4153.7  | 4898.0  | 4986.3  | 4279.3  | 3563.0  | 3190.9  |
| 23578.2 | 67.5° | 19480.3 | 11917.0 | 2986.2  | 3223.5  | 3749.1  | 4386.3  | 4642.1  | 4074.7  | 3372.3  | 3018.8  |
| 13642.7 | 70°   | 11103.0 | 6767.9  | 2576.9  | 2930.4  | 3390.9  | 3911.9  | 4377.0  | 3911.9  | 3167.6  | 2874.6  |
| 5111.9  | 72.5° | 4209.6  | 3107.2  | 2228.0  | 2637.4  | 3046.7  | 3511.8  | 4084.0  | 3656.0  | 2930.4  | 2711.8  |
| 2642.0  | 75°   | 2246.6  | 1893.1  | 1874.5  | 2293.2  | 2651.3  | 3121.1  | 3716.5  | 3404.9  | 2753.7  | 2865.3  |
| 1828.0  | 77.5° | 1530.3  | 1339.6  | 1567.5  | 1962.9  | 2218.7  | 2688.5  | 3325.8  | 3023.4  | 2386.2  | 2376.9  |
| 1265.2  | 80°   | 1060.5  | 948.9   | 1274.5  | 1581.5  | 1716.4  | 2260.6  | 2902.5  | 2595.5  | 1944.3  | 1814.1  |
| 781.4   | 82.5° | 637.2   | 618.6   | 953.5   | 1181.5  | 1214.0  | 1744.3  | 2404.8  | 2176.9  | 1590.8  | 1386.1  |
| 465.1   | 85°   | 348.9   | 367.5   | 609.3   | 693.1   | 707.0   | 1218.7  | 1883.8  | 1683.8  | 1223.3  | 1028.0  |
| 167.5   | 87.5° | 97.7    | 125.6   | 223.3   | 274.4   | 339.6   | 632.6   | 1121.0  | 1000.1  | 614.0   | 427.9   |
| 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> |
|-------------|
| 11465.8     |
| 12307.7     |
| 12842.6     |
| 12996.1     |
| 12912.4     |
| 12717.1     |
| 12447.3     |
| 11991.4     |
| 11493.7     |
| 11177.4     |
| 10916.9     |
| 10628.6     |
| 10307.6     |
| 9837.8      |
| 9228.5      |
| 8456.3      |
| 7577.2      |
| 6698.1      |
| 6014.3      |
| 5558.5      |
| 5125.9      |
| 4795.6      |
| 4358.4      |
| 3981.6      |
| 3628.1      |
| 3349.0      |
| 3130.4      |
| 2963.0      |
| 2837.4      |
| 2674.6      |
| 2958.3      |
| 2190.8      |
| 1735.0      |
| 1395.4      |
| 1037.3      |
| 427.9       |
| 0.0         |

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