

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: P954569

Luminaire Tested: **GALN-SB7D-740-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-740-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

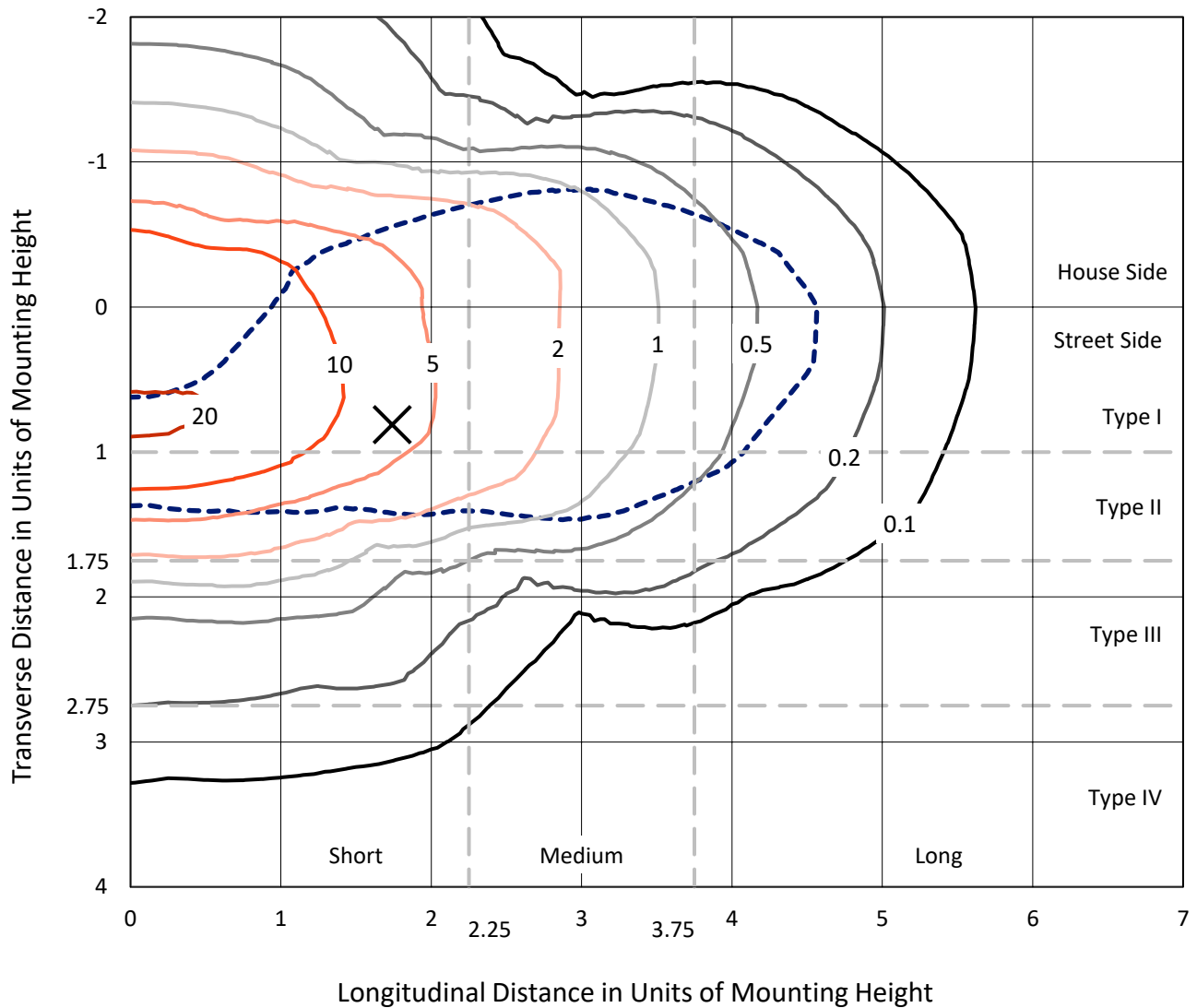
Lumens per Lamp: N/A  
Luminaire Lumens: 77590 lumens  
Efficiency: N/A  
Efficacy: 151.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

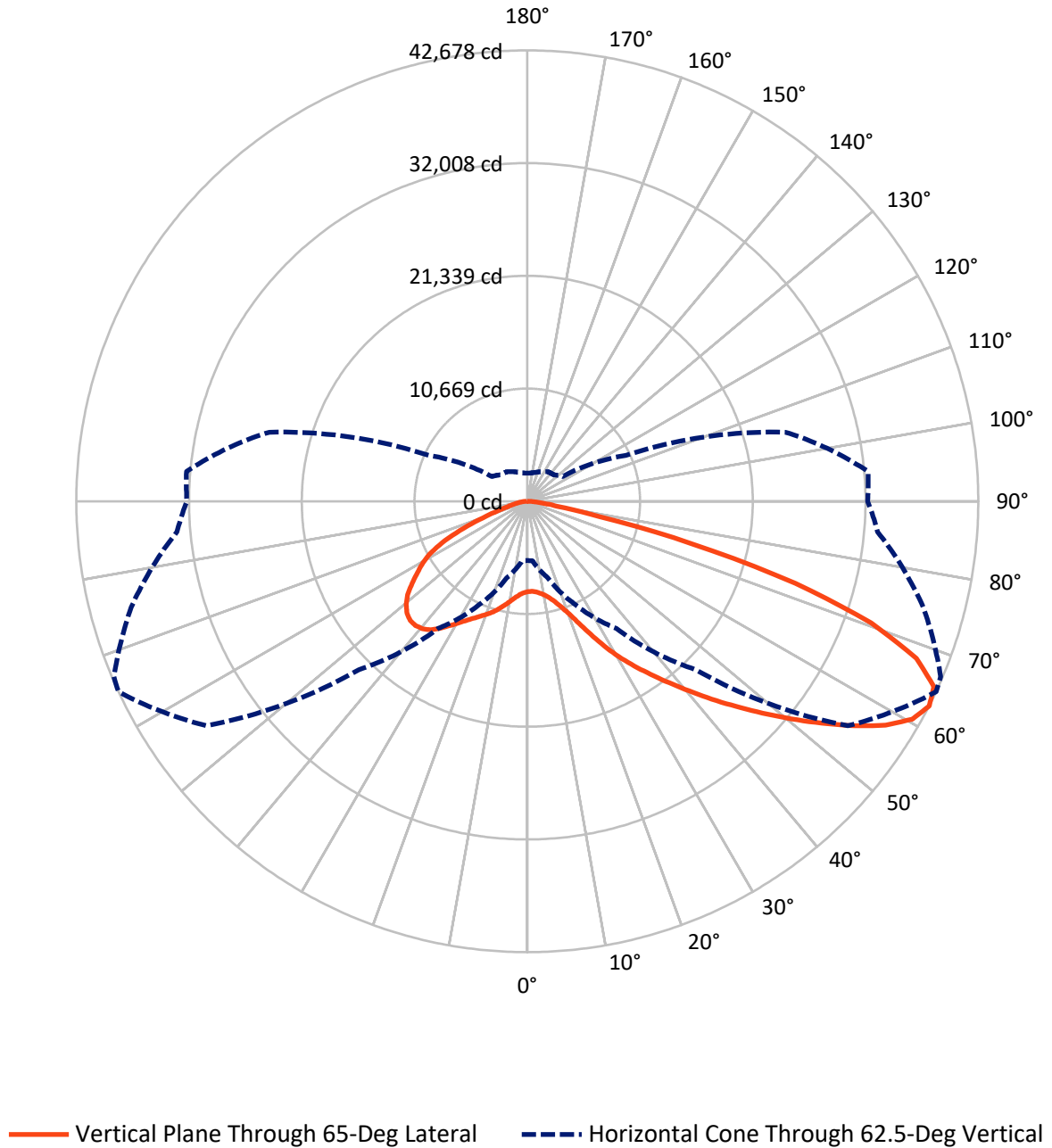
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - 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    | 24484.0  | 0.0    | 24484.0 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 53106.0  | 0.0    | 53106.0 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 77590.0  | 0.0    | 77590.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 852.4   | 1.1       |
| 10°-20°   | 2890.7  | 3.7       |
| 20°-30°   | 5861.2  | 7.6       |
| 30°-40°   | 10142.6 | 13.1      |
| 40°-50°   | 15348.9 | 19.8      |
| 50°-60°   | 17995.7 | 23.2      |
| 60°-70°   | 15087.2 | 19.4      |
| 70°-80°   | 8329.4  | 10.7      |
| 80°-90°   | 1081.9  | 1.4       |
| 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°    | 77590.0 | 100.0     |
| 0°-180°   | 77590.0 | 100.0     |

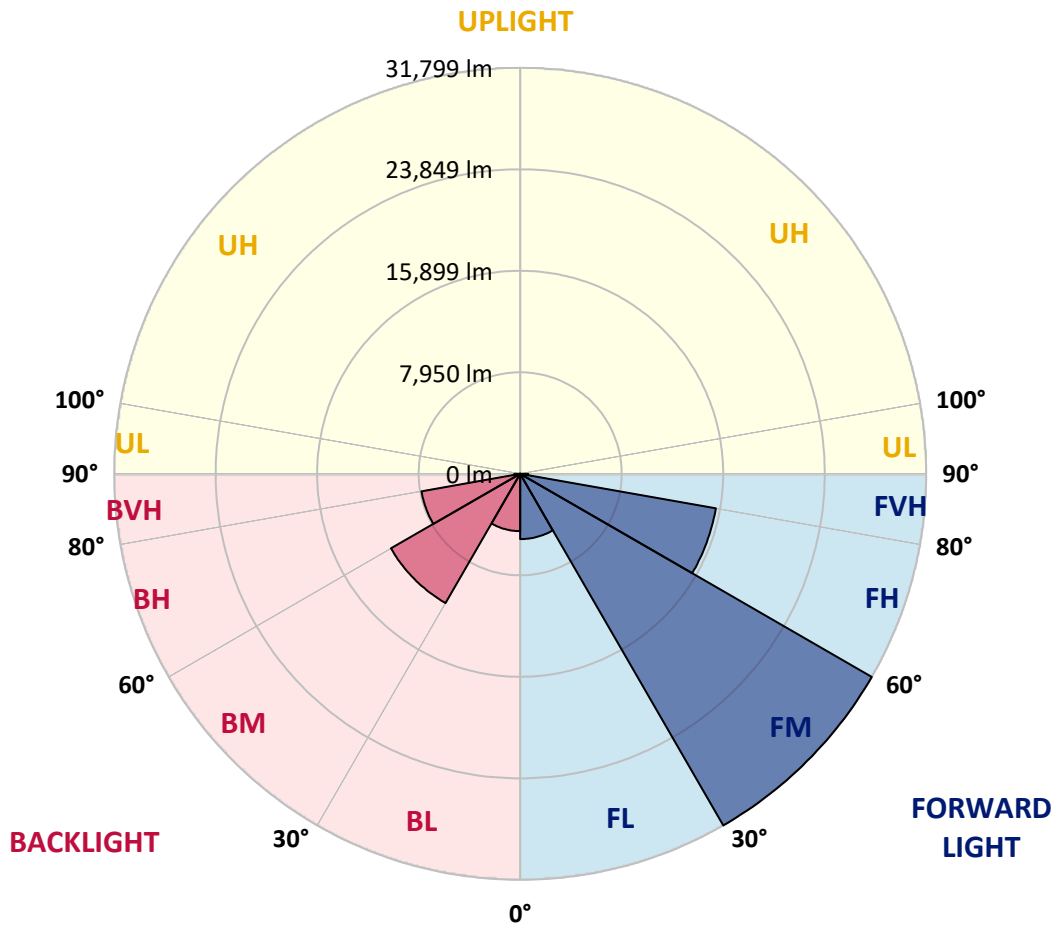


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 5114.2  | 6.6       |                         |      |        |
| FM (30°-60°)   | 31798.9 | 41.0      |                         |      |        |
| FH (60°-80°)   | 15562.3 | 20.1      |                         |      | G5     |
| FVH (80°-90°)  | 630.6   | 0.8       |                         |      | G4/750 |
| BL (0°-30°)    | 4490.1  | 5.8       | B4/5000                 |      |        |
| BM (30°-60°)   | 11688.3 | 15.1      | B5                      |      |        |
| BH (60°-80°)   | 7854.3  | 10.1      | B5                      |      | G5     |
| BVH (80°-90°)  | 451.4   | 0.6       |                         |      | G3/500 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  |
| 2.5°  | 8493.7  | 8469.6  | 8489.7  | 8489.7  | 8497.8  | 8493.7  | 8521.9  | 8530.0  | 8542.0  | 8566.2  |
| 5°    | 8409.2  | 8405.2  | 8441.4  | 8473.6  | 8505.8  | 8534.0  | 8570.2  | 8622.5  | 8630.6  | 8658.8  |
| 7.5°  | 8381.0  | 8356.9  | 8413.2  | 8453.5  | 8530.0  | 8598.4  | 8695.0  | 8783.6  | 8819.8  | 8831.9  |
| 10°   | 8598.4  | 8558.1  | 8610.5  | 8634.6  | 8699.0  | 8767.5  | 8880.2  | 9021.1  | 9061.3  | 9109.6  |
| 12.5° | 8968.7  | 8924.4  | 9000.9  | 9037.2  | 9097.5  | 9157.9  | 9234.4  | 9371.3  | 9391.4  | 9480.0  |
| 15°   | 9475.9  | 9423.6  | 9471.9  | 9516.2  | 9616.8  | 9673.2  | 9749.7  | 9882.5  | 9882.5  | 9950.9  |
| 17.5° | 10164.3 | 10095.9 | 10132.1 | 10148.2 | 10212.6 | 10297.1 | 10425.9 | 10542.7 | 10603.1 | 10578.9 |
| 20°   | 11190.8 | 11106.2 | 11106.2 | 11025.7 | 11001.6 | 11070.0 | 11239.1 | 11400.1 | 11464.5 | 11339.7 |
| 22.5° | 12732.5 | 12611.8 | 12543.3 | 12269.6 | 12160.9 | 12169.0 | 12338.0 | 12535.3 | 12587.6 | 12366.2 |
| 25°   | 14692.9 | 14503.7 | 14411.2 | 14008.6 | 13763.1 | 13549.7 | 13682.5 | 13936.1 | 14008.6 | 13734.9 |
| 27.5° | 16653.3 | 16665.4 | 16576.9 | 16093.8 | 15687.2 | 15296.8 | 15228.3 | 15494.0 | 15570.5 | 15260.5 |
| 30°   | 19402.7 | 19116.9 | 18947.9 | 18368.2 | 17788.5 | 17241.1 | 16959.3 | 17068.0 | 17088.1 | 16717.7 |
| 32.5° | 21773.7 | 21701.3 | 21339.0 | 20831.8 | 20087.1 | 19229.6 | 18758.7 | 18585.6 | 18553.4 | 18026.0 |
| 35°   | 24474.8 | 24434.6 | 24052.1 | 23448.3 | 22643.2 | 21451.7 | 20602.3 | 20107.2 | 20066.9 | 19326.2 |
| 37.5° | 27220.2 | 27220.2 | 26845.8 | 26185.6 | 25352.4 | 23862.9 | 22570.8 | 21785.8 | 21657.0 | 20690.9 |
| 40°   | 29410.0 | 29277.2 | 29345.6 | 29067.9 | 28113.8 | 26531.8 | 24756.6 | 23617.4 | 23444.3 | 22285.0 |
| 42.5° | 30653.9 | 30609.6 | 31020.2 | 31330.2 | 30939.7 | 29675.7 | 27163.8 | 25601.9 | 25360.4 | 24040.1 |
| 45°   | 30931.7 | 30883.3 | 31616.0 | 32751.2 | 33298.6 | 32779.3 | 29780.4 | 27691.2 | 27397.3 | 25875.7 |
| 47.5° | 30291.6 | 30195.0 | 31269.8 | 33061.1 | 34816.2 | 35730.0 | 32614.3 | 29957.5 | 29530.8 | 27663.0 |
| 50°   | 28367.4 | 28274.8 | 29901.1 | 32280.2 | 35327.5 | 37734.7 | 35689.7 | 32360.7 | 31708.6 | 29579.1 |
| 52.5° | 24185.0 | 24229.3 | 26777.4 | 30046.0 | 34655.2 | 38982.6 | 38338.5 | 34892.7 | 34107.7 | 31539.5 |
| 55°   | 18839.2 | 18935.8 | 22067.6 | 25666.3 | 31966.2 | 38793.4 | 40145.9 | 37501.2 | 36720.3 | 33383.2 |
| 57.5° | 13489.3 | 13916.0 | 16850.6 | 20413.1 | 26801.5 | 35794.4 | 40540.4 | 39980.9 | 39224.1 | 35395.9 |
| 60°   | 8743.3  | 8819.8  | 11838.9 | 15429.6 | 20409.1 | 30464.7 | 39739.4 | 41860.8 | 41269.0 | 37448.9 |
| 62.5° | 5603.4  | 5655.8  | 7495.4  | 10792.3 | 14688.9 | 22538.6 | 37042.3 | 42677.9 | 42496.8 | 38805.5 |
| 65°   | 4118.0  | 4077.8  | 5035.9  | 7133.1  | 9894.6  | 13899.9 | 31805.2 | 42283.5 | 42641.7 | 39654.8 |
| 67.5° | 3437.7  | 3381.4  | 3852.4  | 4939.2  | 7290.1  | 7893.9  | 23532.9 | 39719.2 | 41031.5 | 39558.2 |
| 70°   | 3131.8  | 3083.5  | 3369.3  | 3667.2  | 5688.0  | 5285.4  | 11863.0 | 34530.4 | 36551.2 | 38459.3 |
| 72.5° | 2652.8  | 2568.2  | 2958.7  | 3256.6  | 4424.0  | 4053.6  | 4903.0  | 26523.8 | 28987.4 | 34937.0 |
| 75°   | 2057.0  | 2000.7  | 2334.8  | 2866.1  | 3325.0  | 3164.0  | 3099.6  | 16105.9 | 18794.9 | 27018.9 |
| 77.5° | 1630.3  | 1553.8  | 1859.8  | 2234.1  | 2990.9  | 2387.1  | 2258.3  | 6935.9  | 9600.7  | 17249.1 |
| 80°   | 1227.8  | 1159.3  | 1412.9  | 1767.2  | 2298.5  | 1799.4  | 1461.2  | 2829.9  | 3618.9  | 8739.3  |
| 82.5° | 873.5   | 813.1   | 986.2   | 1296.2  | 1545.8  | 1614.2  | 897.7   | 1586.0  | 1783.3  | 3369.3  |
| 85°   | 559.5   | 523.3   | 660.2   | 813.1   | 982.2   | 1038.6  | 547.5   | 829.2   | 909.8   | 1388.8  |
| 87.5° | 305.9   | 249.6   | 354.2   | 378.4   | 454.9   | 414.6   | 261.7   | 301.9   | 326.1   | 503.2   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 8550.1  | 0°    | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  | 8550.1  |
| 8566.2  | 2.5°  | 8582.3  | 8594.4  | 8634.6  | 8646.7  | 8674.9  | 8711.1  | 8735.3  | 8759.4  | 8759.4  | 8783.6  |
| 8695.0  | 5°    | 8699.0  | 8727.2  | 8811.7  | 8856.0  | 8928.5  | 9000.9  | 9045.2  | 9097.5  | 9129.7  | 9145.8  |
| 8900.3  | 7.5°  | 8924.4  | 8968.7  | 9089.5  | 9166.0  | 9290.8  | 9391.4  | 9459.8  | 9532.3  | 9548.4  | 9592.7  |
| 9186.1  | 10°   | 9230.4  | 9282.7  | 9419.6  | 9564.5  | 9713.4  | 9838.2  | 9902.6  | 9955.0  | 9975.1  | 9983.1  |
| 9552.4  | 12.5° | 9580.6  | 9657.1  | 9834.2  | 10011.3 | 10168.3 | 10277.0 | 10293.1 | 10281.0 | 10224.7 | 10176.4 |
| 10003.3 | 15°   | 10011.3 | 10079.8 | 10277.0 | 10470.2 | 10623.2 | 10643.3 | 10542.7 | 10478.3 | 10409.8 | 10397.8 |
| 10506.5 | 17.5° | 10526.6 | 10562.8 | 10744.0 | 10933.2 | 10945.2 | 10876.8 | 10727.9 | 10667.5 | 10603.1 | 10558.8 |
| 11162.6 | 20°   | 11126.4 | 11114.3 | 11243.1 | 11323.6 | 11239.1 | 11029.8 | 10804.3 | 10703.7 | 10639.3 | 10587.0 |
| 11967.7 | 22.5° | 11842.9 | 11750.3 | 11734.2 | 11714.1 | 11488.7 | 11049.9 | 10744.0 | 10615.1 | 10514.5 | 10442.0 |
| 13090.8 | 25°   | 12885.5 | 12531.3 | 12285.7 | 12148.8 | 11641.6 | 10941.2 | 10550.7 | 10264.9 | 10075.7 | 9950.9  |
| 14463.5 | 27.5° | 14189.8 | 13594.0 | 12974.1 | 12640.0 | 11641.6 | 10719.8 | 10083.8 | 9620.9  | 9310.9  | 9182.1  |
| 15791.9 | 30°   | 15433.6 | 14809.7 | 13895.9 | 13231.7 | 11613.5 | 10357.5 | 9331.0  | 8686.9  | 8324.7  | 8195.8  |
| 16927.1 | 32.5° | 16496.3 | 15816.0 | 14874.1 | 13879.8 | 11545.0 | 9769.8  | 8397.1  | 7684.6  | 7334.4  | 7181.4  |
| 18050.2 | 35°   | 17482.6 | 16758.0 | 15856.3 | 14592.3 | 11363.9 | 8908.3  | 7370.6  | 6827.2  | 6436.7  | 6191.2  |
| 19193.4 | 37.5° | 18493.0 | 17631.5 | 16786.2 | 15236.4 | 11037.8 | 7902.0  | 6581.6  | 6118.7  | 5659.8  | 5329.7  |
| 20409.1 | 40°   | 19591.9 | 18561.4 | 17780.5 | 15618.8 | 10502.4 | 6943.9  | 5969.8  | 5547.1  | 5060.0  | 4709.8  |
| 21810.0 | 42.5° | 20876.0 | 19676.5 | 18887.5 | 15816.0 | 9769.8  | 6263.6  | 5571.2  | 5156.6  | 4697.7  | 4411.9  |
| 23311.5 | 45°   | 22216.5 | 20904.2 | 19897.9 | 15812.0 | 8952.6  | 5945.6  | 5442.4  | 5031.8  | 4524.6  | 4226.7  |
| 24853.2 | 47.5° | 23621.4 | 22188.3 | 20771.4 | 15554.4 | 8244.1  | 5989.9  | 5370.0  | 4762.1  | 4202.6  | 3912.7  |
| 26411.1 | 50°   | 25030.3 | 23593.2 | 21616.7 | 15071.3 | 7942.2  | 5893.3  | 5100.3  | 4383.7  | 3723.6  | 3461.9  |
| 27872.3 | 52.5° | 26427.2 | 25086.7 | 22345.3 | 14383.0 | 7636.3  | 5535.0  | 4754.1  | 3892.6  | 3526.3  | 3345.2  |
| 29381.8 | 55°   | 27832.0 | 26564.0 | 23138.4 | 13380.6 | 6871.5  | 5116.4  | 4174.4  | 3707.5  | 3369.3  | 3204.3  |
| 30859.2 | 57.5° | 29241.0 | 28270.8 | 23891.1 | 12378.3 | 5909.4  | 4601.1  | 3856.4  | 3482.0  | 3212.3  | 3071.4  |
| 32095.0 | 60°   | 30706.2 | 30223.2 | 24668.0 | 11456.5 | 4959.4  | 3940.9  | 3622.9  | 3300.9  | 3027.1  | 2870.2  |
| 33282.5 | 62.5° | 32215.8 | 32372.8 | 25275.9 | 10269.0 | 4085.8  | 3538.4  | 3413.6  | 3083.5  | 2817.8  | 2668.9  |
| 34264.7 | 65°   | 33737.4 | 34445.9 | 25674.4 | 8622.5  | 3313.0  | 3156.0  | 3188.2  | 2846.0  | 2576.3  | 2447.5  |
| 34985.3 | 67.5° | 34884.7 | 35939.3 | 25561.7 | 6525.3  | 2717.2  | 2793.7  | 2906.4  | 2596.4  | 2342.8  | 2242.2  |
| 34868.6 | 70°   | 35013.5 | 35762.2 | 24450.7 | 4468.3  | 2274.4  | 2439.4  | 2592.4  | 2350.9  | 2089.2  | 2016.8  |
| 33226.2 | 72.5° | 33298.6 | 33346.9 | 21355.1 | 2918.5  | 1924.2  | 2141.5  | 2262.3  | 2101.3  | 1847.7  | 1775.2  |
| 29067.9 | 75°   | 28802.2 | 27578.4 | 15679.2 | 1924.2  | 1610.2  | 1839.6  | 1952.3  | 1839.6  | 1594.1  | 1610.2  |
| 21749.6 | 77.5° | 21822.0 | 19531.5 | 9520.2  | 1368.7  | 1344.5  | 1545.8  | 1698.7  | 1618.2  | 1408.9  | 1582.0  |
| 10937.2 | 80°   | 11243.1 | 10566.8 | 4246.9  | 1022.5  | 1062.7  | 1235.8  | 1396.8  | 1292.2  | 1115.1  | 1062.7  |
| 2443.5  | 82.5° | 2576.3  | 2994.9  | 1674.6  | 732.6   | 768.9   | 889.6   | 1066.7  | 970.1   | 801.1   | 676.3   |
| 1018.4  | 85°   | 901.7   | 986.2   | 740.7   | 458.9   | 450.9   | 555.5   | 724.6   | 648.1   | 543.4   | 434.7   |
| 430.7   | 87.5° | 285.8   | 374.4   | 277.8   | 185.2   | 193.2   | 249.6   | 334.1   | 305.9   | 253.6   | 165.0   |
| 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> |
|-------------|
| 8550.1      |
| 8783.6      |
| 9153.9      |
| 9576.6      |
| 9963.0      |
| 10176.4     |
| 10397.8     |
| 10562.8     |
| 10591.0     |
| 10466.2     |
| 9999.2      |
| 9246.5      |
| 8272.3      |
| 7257.9      |
| 6271.7      |
| 5418.3      |
| 4778.2      |
| 4468.3      |
| 4275.0      |
| 3953.0      |
| 3478.0      |
| 3345.2      |
| 3188.2      |
| 3047.3      |
| 2858.1      |
| 2664.9      |
| 2443.5      |
| 2246.2      |
| 2020.8      |
| 1771.2      |
| 1553.8      |
| 1392.8      |
| 970.1       |
| 668.2       |
| 458.9       |
| 173.1       |
| 0.0         |

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