

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: P957402

Luminaire Tested: **GALN-SB9D-735-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-735-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

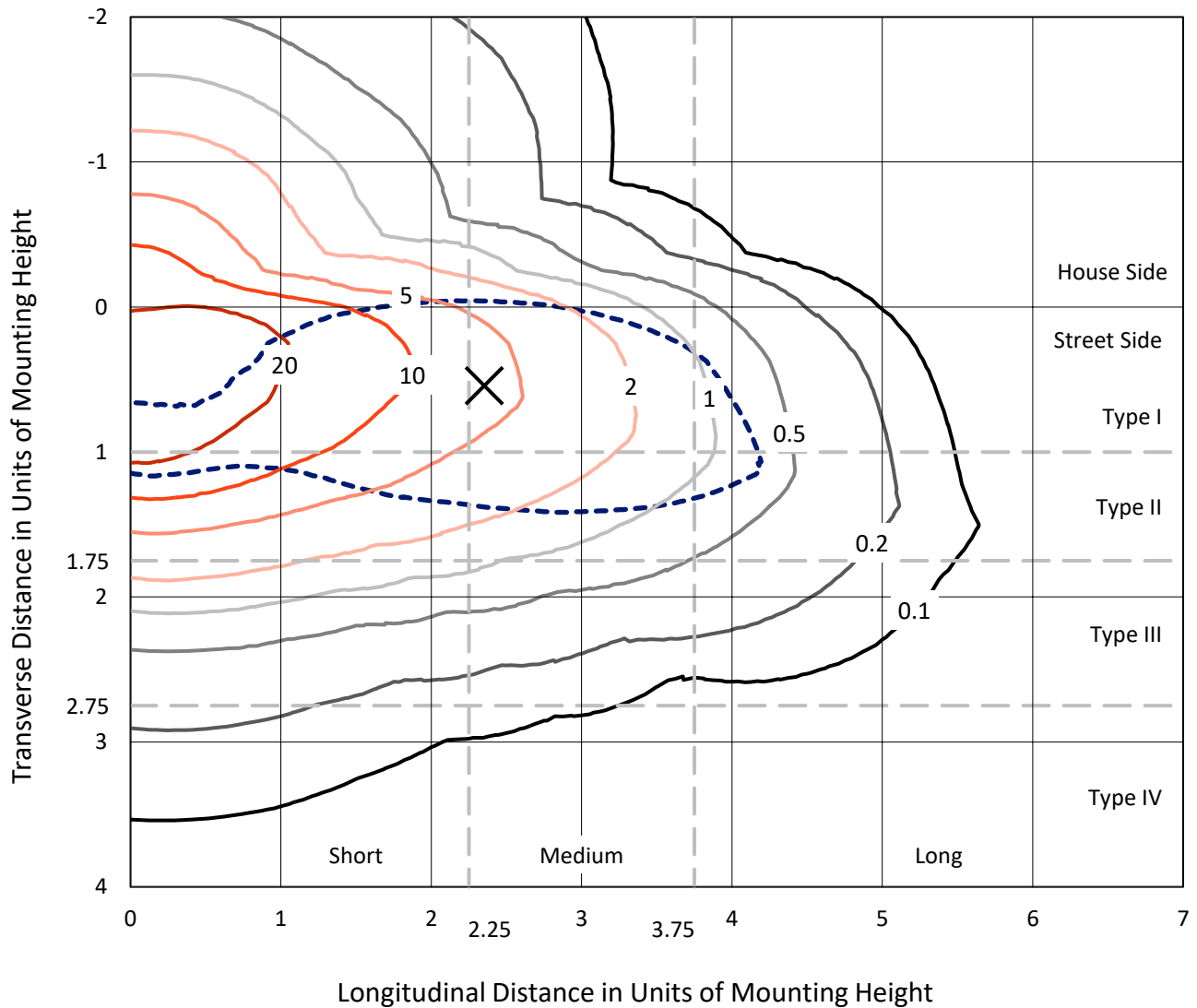
Lumens per Lamp: N/A  
Luminaire Lumens: 94407 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

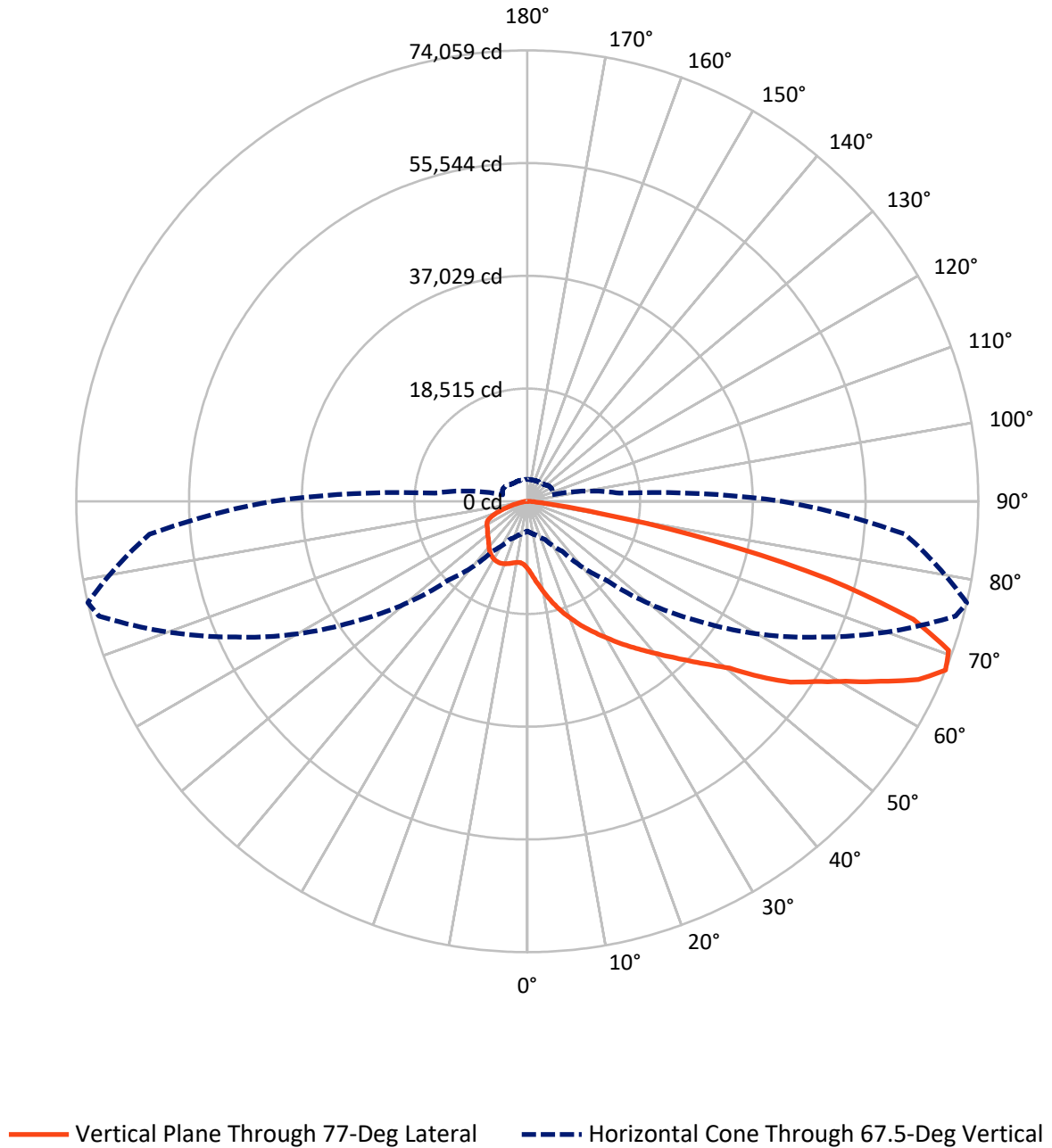
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17858.0  | 0.0    | 17858.0 |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 76549.0  | 0.0    | 76549.0 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 94407.0  | 0.0    | 94407.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1187.3  | 1.3       |
| 10°-20°   | 4265.5  | 4.5       |
| 20°-30°   | 8053.6  | 8.5       |
| 30°-40°   | 12974.2 | 13.7      |
| 40°-50°   | 17746.4 | 18.8      |
| 50°-60°   | 20018.1 | 21.2      |
| 60°-70°   | 18684.4 | 19.8      |
| 70°-80°   | 10242.2 | 10.8      |
| 80°-90°   | 1235.4  | 1.3       |
| 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°    | 94407.0 | 100.0     |
| 0°-180°   | 94407.0 | 100.0     |

**Coefficient of Utilization**



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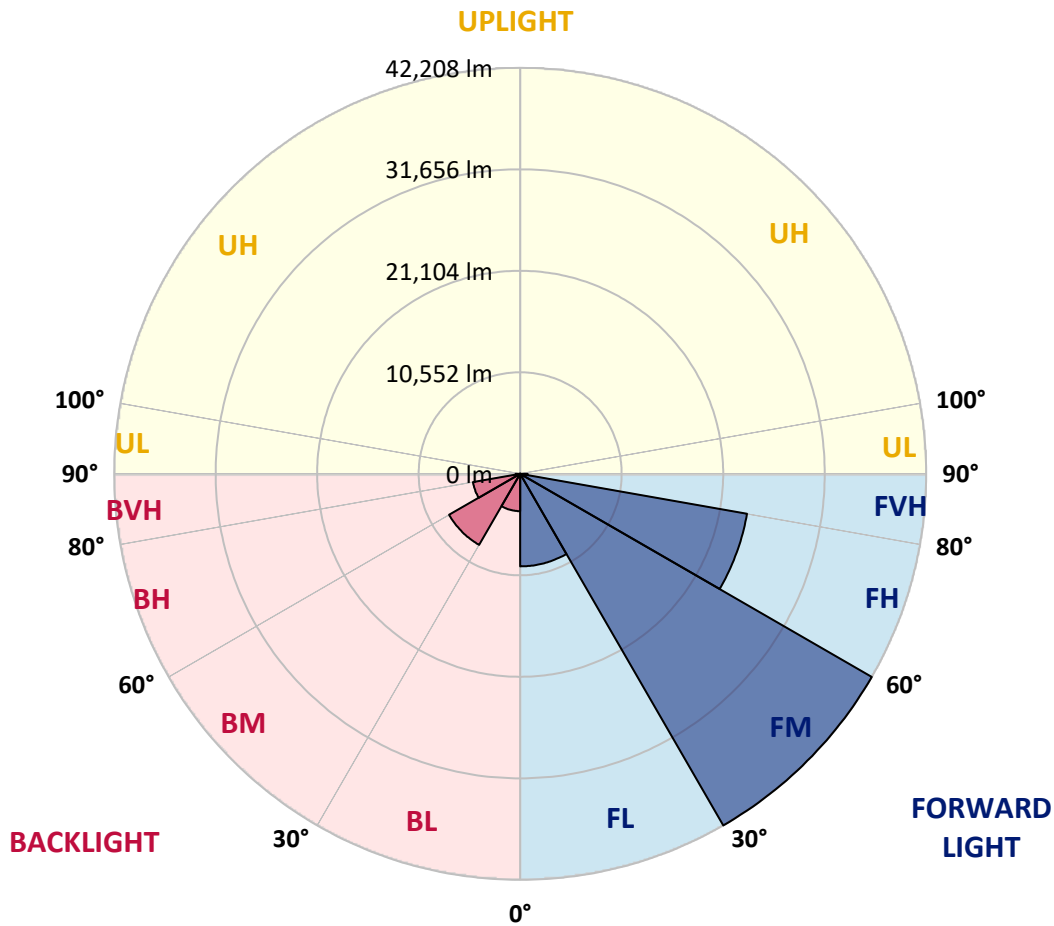
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 9623.6  | 10.2      |                         |      |         |
| FM (30°-60°)   | 42208.3 | 44.7      |                         |      |         |
| FH (60°-80°)   | 23944.4 | 25.4      |                         |      | G5      |
| FVH (80°-90°)  | 772.6   | 0.8       |                         |      | G5      |
| BL (0°-30°)    | 3882.7  | 4.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 8530.3  | 9.0       | B5                      |      |         |
| BH (60°-80°)   | 4982.1  | 5.3       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 462.8   | 0.5       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 |
| 2.5°  | 13869.2 | 13966.7 | 13844.9 | 13844.9 | 13435.5 | 13221.1 | 12811.7 | 12499.9 | 11939.4 | 11842.0 |
| 5°    | 16393.6 | 16515.4 | 16344.8 | 16271.7 | 15789.3 | 15345.8 | 14658.7 | 13981.3 | 12982.3 | 12880.0 |
| 7.5°  | 18347.7 | 18503.7 | 18352.6 | 18274.6 | 17845.8 | 17348.7 | 16544.6 | 15599.2 | 14190.9 | 13991.1 |
| 10°   | 19941.3 | 19965.7 | 19916.9 | 19946.2 | 19609.9 | 19200.6 | 18377.0 | 17275.6 | 15516.4 | 15243.5 |
| 12.5° | 20842.8 | 20954.9 | 21052.4 | 21227.8 | 21169.4 | 20915.9 | 20175.2 | 18859.4 | 16919.9 | 16569.0 |
| 15°   | 21266.8 | 21461.7 | 21681.0 | 22085.5 | 22412.0 | 22475.4 | 21910.1 | 20560.2 | 18347.7 | 17923.8 |
| 17.5° | 21417.9 | 21603.1 | 21949.1 | 22533.9 | 23235.6 | 23708.3 | 23454.9 | 22212.2 | 19761.0 | 19273.7 |
| 20°   | 22183.0 | 22236.6 | 22446.1 | 23001.7 | 23761.9 | 24546.5 | 24736.6 | 23800.9 | 21159.6 | 20608.9 |
| 22.5° | 23820.4 | 23713.2 | 23771.7 | 24025.1 | 24570.9 | 25331.1 | 25764.8 | 25204.4 | 22597.2 | 21963.7 |
| 25°   | 26525.0 | 26213.2 | 25901.3 | 25608.9 | 25886.6 | 26315.5 | 26807.7 | 26607.9 | 24103.0 | 23299.0 |
| 27.5° | 29941.2 | 29561.1 | 28873.9 | 27913.9 | 27577.7 | 27728.7 | 27948.0 | 27909.0 | 25496.8 | 24683.0 |
| 30°   | 33303.7 | 32860.3 | 32041.6 | 30652.7 | 29765.7 | 29366.1 | 29200.5 | 29088.4 | 27012.4 | 26144.9 |
| 32.5° | 35988.9 | 35638.0 | 34833.9 | 33279.4 | 31992.8 | 31310.6 | 30759.9 | 30360.3 | 28596.2 | 27728.7 |
| 35°   | 38337.8 | 38011.3 | 37090.2 | 35394.3 | 33995.7 | 33269.6 | 32548.4 | 31695.6 | 30243.3 | 29366.1 |
| 37.5° | 40482.0 | 40155.5 | 38893.3 | 37129.2 | 35720.8 | 35218.9 | 34575.6 | 33128.3 | 31895.4 | 31066.9 |
| 40°   | 41836.8 | 41763.7 | 40584.3 | 38586.3 | 37124.3 | 36875.8 | 36661.4 | 34790.1 | 33727.7 | 32957.7 |
| 42.5° | 42182.8 | 42343.6 | 41407.9 | 39765.6 | 38371.9 | 38172.1 | 38674.0 | 36671.1 | 35784.2 | 35048.3 |
| 45°   | 41349.4 | 41812.4 | 41198.4 | 40082.4 | 39258.8 | 39151.6 | 40457.6 | 38727.6 | 38060.0 | 37387.5 |
| 47.5° | 39239.3 | 40023.9 | 39770.5 | 39614.6 | 39497.6 | 39960.6 | 42026.8 | 40910.8 | 40637.9 | 40053.2 |
| 50°   | 34980.1 | 36466.5 | 36909.9 | 37894.3 | 39024.9 | 40589.2 | 43454.7 | 43293.9 | 43649.6 | 43059.9 |
| 52.5° | 27616.6 | 29663.4 | 32236.5 | 34702.3 | 37572.7 | 40379.7 | 45023.9 | 46714.9 | 48215.8 | 47894.2 |
| 55°   | 22797.0 | 23718.1 | 25696.6 | 30219.0 | 34755.9 | 39497.6 | 45730.5 | 49478.0 | 52747.9 | 52460.4 |
| 57.5° | 19093.4 | 19916.9 | 21135.2 | 24912.0 | 30496.7 | 37494.7 | 46169.1 | 51164.1 | 55852.2 | 55823.0 |
| 60°   | 15121.7 | 15994.0 | 17241.5 | 19916.9 | 25521.2 | 34034.7 | 46071.6 | 53084.2 | 59814.1 | 60057.8 |
| 62.5° | 10638.3 | 11598.3 | 12982.3 | 15477.4 | 20438.4 | 29551.3 | 44083.3 | 54473.1 | 64477.8 | 65140.6 |
| 65°   | 6993.1  | 7626.6  | 8669.5  | 10823.5 | 15228.9 | 23786.3 | 40287.1 | 54653.4 | 69468.0 | 70588.9 |
| 67.5° | 4902.5  | 5146.1  | 5760.2  | 6929.7  | 10038.9 | 18240.5 | 34239.4 | 52786.9 | 72796.5 | 74058.6 |
| 70°   | 3825.5  | 3947.3  | 4259.2  | 4727.0  | 6306.0  | 12265.9 | 26237.5 | 47933.2 | 72085.0 | 73400.7 |
| 72.5° | 3304.1  | 3421.0  | 3538.0  | 3596.5  | 4230.0  | 7573.0  | 17772.7 | 40077.5 | 65384.3 | 66276.1 |
| 75°   | 2997.0  | 3026.3  | 3123.7  | 3104.3  | 3226.1  | 4912.2  | 10258.2 | 29200.5 | 51588.1 | 51281.1 |
| 77.5° | 2519.5  | 2558.5  | 2719.3  | 2694.9  | 2865.5  | 3357.7  | 5326.5  | 18844.8 | 33445.0 | 31359.3 |
| 80°   | 2134.5  | 2154.0  | 2329.4  | 2300.2  | 2490.2  | 2431.7  | 2719.3  | 9605.2  | 14186.0 | 12017.4 |
| 82.5° | 740.7   | 916.2   | 1778.7  | 1832.3  | 1900.6  | 1471.7  | 1569.2  | 3918.1  | 4332.3  | 3318.7  |
| 85°   | 360.6   | 385.0   | 906.4   | 1286.5  | 1281.7  | 740.7   | 765.1   | 1398.6  | 1364.5  | 1072.1  |
| 87.5° | 58.5    | 73.1    | 107.2   | 501.9   | 399.6   | 194.9   | 263.2   | 272.9   | 282.6   | 243.7   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11076.9 | 0°    | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 | 11076.9 |
| 11471.6 | 2.5°  | 11198.7 | 10955.0 | 10443.4 | 9970.6  | 9600.3  | 9244.5  | 9044.7  | 8874.2  | 8776.7  | 8757.2  |
| 12007.7 | 5°    | 11500.8 | 10998.9 | 10068.1 | 9283.5  | 8771.8  | 8391.7  | 8191.9  | 8065.2  | 8001.9  | 7962.9  |
| 12728.9 | 7.5°  | 11934.6 | 11198.7 | 9873.2  | 8981.4  | 8445.3  | 8172.4  | 8070.1  | 8050.6  | 8045.7  | 8050.6  |
| 13601.2 | 10°   | 12534.0 | 11525.2 | 9853.7  | 8908.3  | 8459.9  | 8308.9  | 8304.0  | 8308.9  | 8328.4  | 8333.2  |
| 14551.5 | 12.5° | 13182.1 | 11861.5 | 9931.7  | 8971.6  | 8645.1  | 8562.3  | 8547.7  | 8542.8  | 8557.4  | 8567.2  |
| 15511.5 | 15°   | 13888.7 | 12304.9 | 10063.2 | 9108.1  | 8849.8  | 8762.1  | 8747.5  | 8718.2  | 8713.4  | 8708.5  |
| 16520.3 | 17.5° | 14614.8 | 12743.5 | 10209.4 | 9254.3  | 8981.4  | 8859.5  | 8805.9  | 8737.7  | 8684.1  | 8669.5  |
| 17563.2 | 20°   | 15350.7 | 13177.2 | 10311.8 | 9327.4  | 8991.1  | 8820.6  | 8713.4  | 8596.4  | 8503.8  | 8450.2  |
| 18615.8 | 22.5° | 16135.3 | 13630.5 | 10375.1 | 9307.9  | 8903.4  | 8669.5  | 8474.6  | 8338.1  | 8196.8  | 8104.2  |
| 19678.1 | 25°   | 16900.4 | 14025.2 | 10370.3 | 9205.5  | 8732.8  | 8435.6  | 8187.0  | 8011.6  | 7816.7  | 7719.2  |
| 20774.6 | 27.5° | 17636.3 | 14380.9 | 10248.4 | 9025.2  | 8489.2  | 8157.8  | 7860.5  | 7651.0  | 7460.9  | 7368.3  |
| 21880.8 | 30°   | 18396.5 | 14678.2 | 10058.4 | 8762.1  | 8201.7  | 7836.2  | 7509.7  | 7329.4  | 7158.8  | 7071.1  |
| 23050.4 | 32.5° | 19151.8 | 14951.1 | 9790.3  | 8435.6  | 7870.3  | 7519.4  | 7197.8  | 7032.1  | 6929.7  | 6929.7  |
| 24307.7 | 35°   | 19951.0 | 15141.2 | 9434.6  | 8055.5  | 7519.4  | 7183.2  | 6929.7  | 6832.3  | 6822.5  | 6764.1  |
| 25638.1 | 37.5° | 20794.1 | 15263.0 | 9000.9  | 7665.6  | 7173.4  | 6856.6  | 6778.7  | 6661.7  | 6564.3  | 6437.5  |
| 27100.1 | 40°   | 21681.0 | 15384.8 | 8479.4  | 7261.1  | 6807.9  | 6632.5  | 6598.4  | 6442.4  | 6164.6  | 5852.8  |
| 28757.0 | 42.5° | 22758.0 | 15467.7 | 7938.5  | 6856.6  | 6422.9  | 6364.5  | 6413.2  | 6145.2  | 5701.7  | 5467.8  |
| 30755.0 | 45°   | 24005.6 | 15604.1 | 7441.4  | 6457.0  | 6028.2  | 6028.2  | 6232.9  | 5882.0  | 5516.5  | 5370.3  |
| 33035.7 | 47.5° | 25623.5 | 15920.9 | 6978.5  | 6018.5  | 5662.7  | 5760.2  | 5833.3  | 5565.2  | 5360.6  | 5180.3  |
| 35813.4 | 50°   | 27962.6 | 16681.1 | 6500.9  | 5575.0  | 5384.9  | 5579.9  | 5477.5  | 5321.6  | 5082.8  | 4936.6  |
| 40228.6 | 52.5° | 30867.1 | 17129.4 | 6076.9  | 5175.4  | 5146.1  | 5341.1  | 5194.9  | 5048.7  | 4868.4  | 4673.4  |
| 43576.5 | 55°   | 32845.6 | 17212.3 | 5721.2  | 4883.0  | 4985.3  | 4965.8  | 4912.2  | 4780.6  | 4683.2  | 4424.9  |
| 46880.6 | 57.5° | 35058.1 | 17378.0 | 5428.8  | 4707.5  | 4883.0  | 4668.6  | 4649.1  | 4537.0  | 4410.3  | 4234.8  |
| 50910.7 | 60°   | 37704.3 | 17636.3 | 5175.4  | 4639.3  | 4795.3  | 4473.6  | 4376.2  | 4332.3  | 4205.6  | 4117.9  |
| 55759.6 | 62.5° | 40589.2 | 17870.2 | 4917.1  | 4649.1  | 4692.9  | 4283.6  | 4137.4  | 4122.8  | 4044.8  | 4015.5  |
| 60311.2 | 65°   | 42558.0 | 17231.8 | 4595.5  | 4639.3  | 4532.1  | 4088.6  | 3903.5  | 3898.6  | 3835.2  | 3825.5  |
| 62284.9 | 67.5° | 41870.9 | 15209.4 | 4161.7  | 4502.9  | 4366.4  | 3893.7  | 3689.0  | 3669.5  | 3586.7  | 3591.6  |
| 60223.5 | 70°   | 38430.4 | 12324.4 | 3562.3  | 4166.6  | 4161.7  | 3718.3  | 3464.9  | 3401.5  | 3289.4  | 3308.9  |
| 52363.0 | 72.5° | 31978.2 | 9132.5  | 2758.3  | 3606.2  | 3835.2  | 3557.5  | 3206.6  | 3104.3  | 2962.9  | 2982.4  |
| 38654.5 | 75°   | 23094.3 | 6208.5  | 2007.8  | 2743.6  | 3338.2  | 3367.4  | 2953.2  | 2777.7  | 2607.2  | 2636.4  |
| 21515.4 | 77.5° | 11817.6 | 3518.5  | 1476.6  | 1890.8  | 2621.8  | 3060.4  | 2724.1  | 2490.2  | 2451.2  | 2724.1  |
| 6203.6  | 80°   | 3854.7  | 1764.1  | 1023.4  | 1325.5  | 1720.3  | 2504.8  | 2387.9  | 2119.9  | 2110.1  | 2173.5  |
| 1301.2  | 82.5° | 1150.1  | 745.6   | 657.9   | 872.3   | 950.3   | 1920.1  | 2061.4  | 1603.3  | 1379.1  | 1452.2  |
| 433.7   | 85°   | 394.7   | 360.6   | 375.2   | 433.7   | 453.2   | 1125.7  | 1442.5  | 1062.4  | 1003.9  | 1106.2  |
| 97.5    | 87.5° | 92.6    | 126.7   | 107.2   | 97.5    | 97.5    | 272.9   | 560.4   | 443.5   | 614.0   | 409.4   |
| 0.0     | 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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|---------|
| 180°    |
| 11076.9 |
| 8757.2  |
| 7958.0  |
| 8065.2  |
| 8338.1  |
| 8572.0  |
| 8703.6  |
| 8684.1  |
| 8469.7  |
| 8109.1  |
| 7719.2  |
| 7363.5  |
| 7066.2  |
| 6934.6  |
| 6749.4  |
| 6418.1  |
| 5808.9  |
| 5472.6  |
| 5394.7  |
| 5175.4  |
| 4922.0  |
| 4634.5  |
| 4429.8  |
| 4176.4  |
| 4142.3  |
| 4015.5  |
| 3820.6  |
| 3591.6  |
| 3328.4  |
| 2977.5  |
| 2646.2  |
| 2685.2  |
| 1866.5  |
| 1501.0  |
| 1091.6  |
| 394.7   |
| 0.0     |

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