

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: P957385

Luminaire Tested: **GALN-SB9D-730-U-T3R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9D-730-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 95152 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - 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



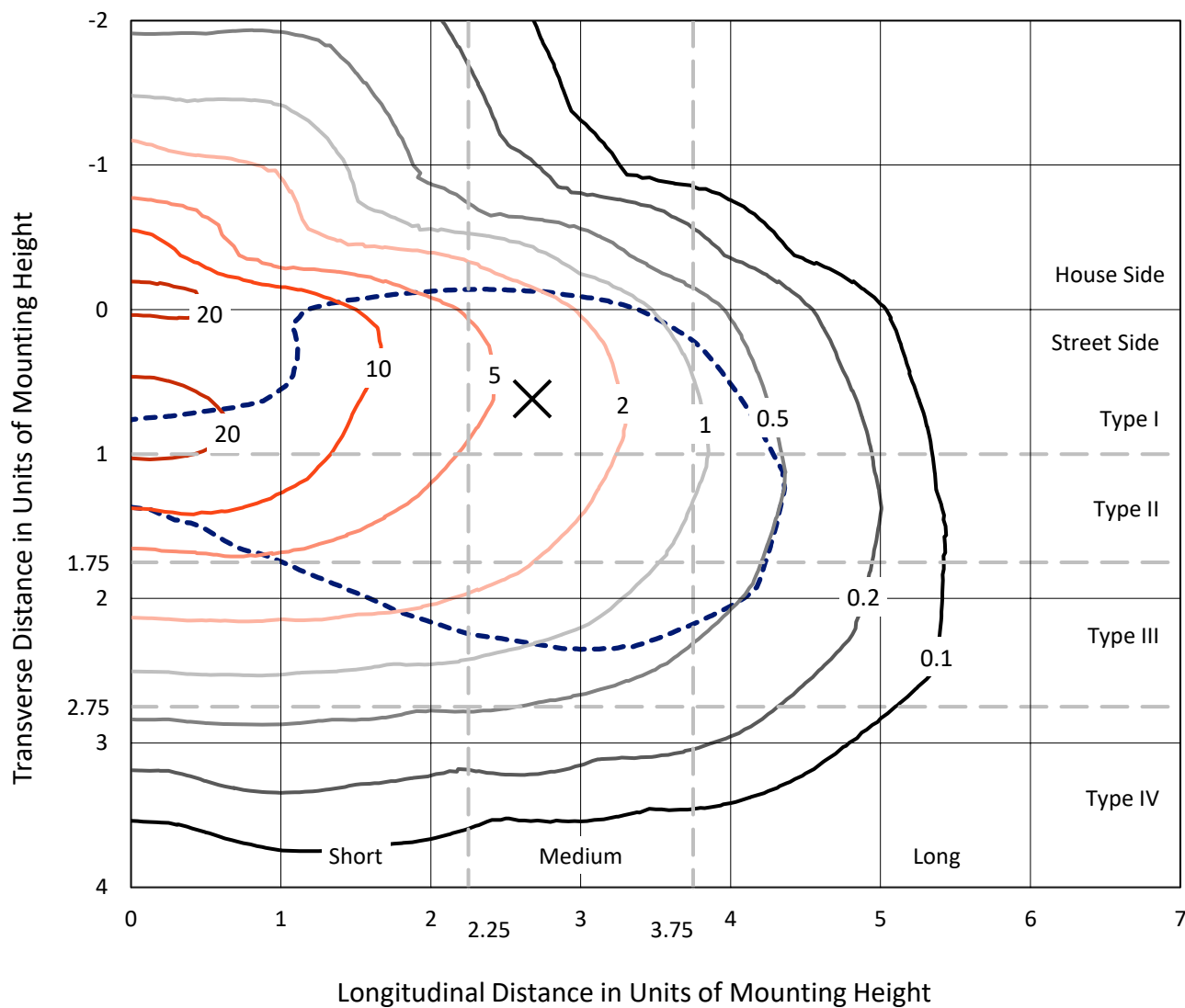
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

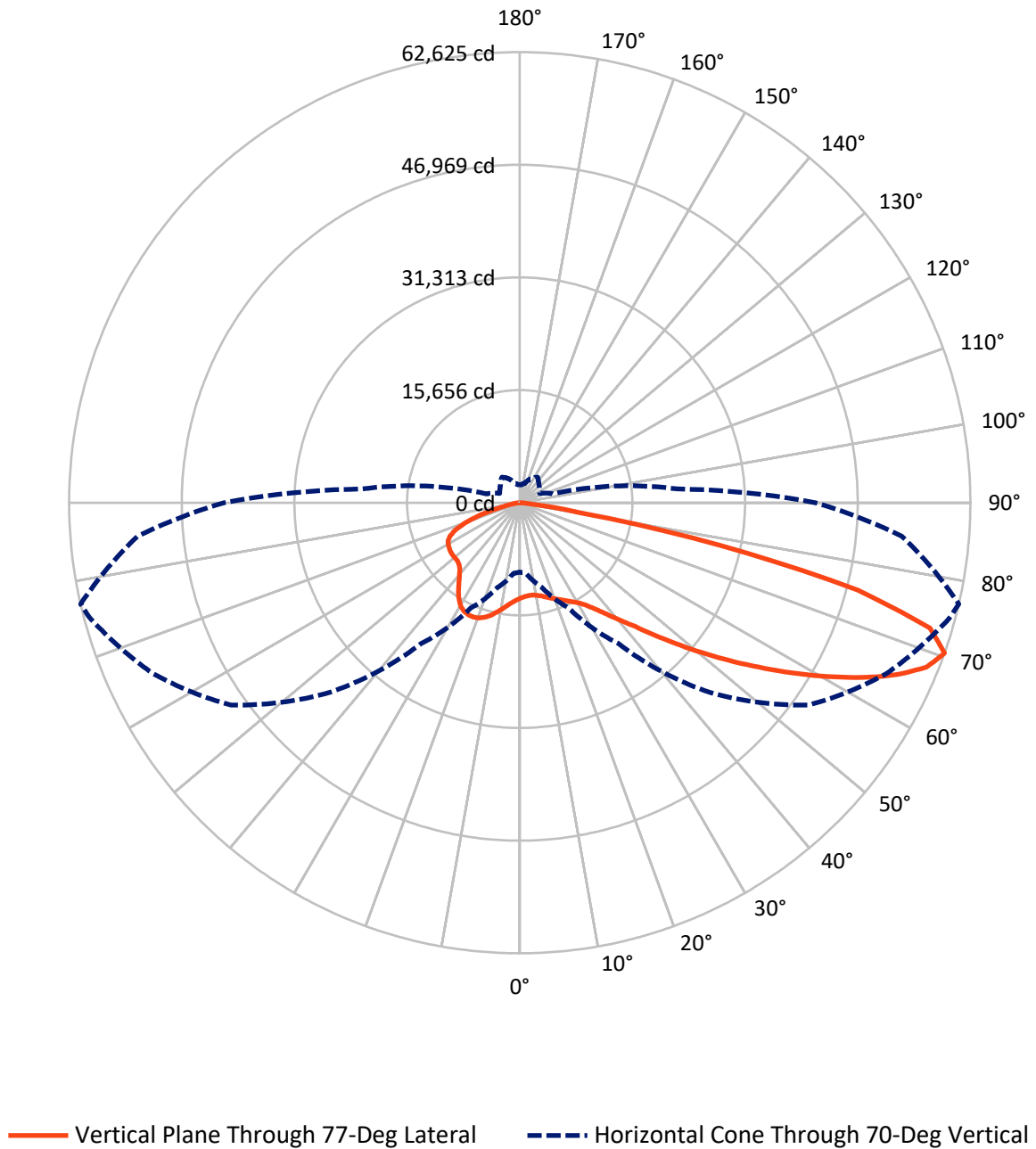


Based on 25 foot mounting height. Maximum calculated value = 25.2 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 20836.8  | 0.0    | 20836.8 |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 74315.2  | 0.0    | 74315.2 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 95152.0  | 0.0    | 95152.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1266.0  | 1.3       |
| 10°-20°   | 3653.9  | 3.8       |
| 20°-30°   | 6248.7  | 6.6       |
| 30°-40°   | 10048.5 | 10.6      |
| 40°-50°   | 15688.4 | 16.5      |
| 50°-60°   | 20956.0 | 22.0      |
| 60°-70°   | 22335.8 | 23.5      |
| 70°-80°   | 13749.8 | 14.5      |
| 80°-90°   | 1204.9  | 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°    | 95152.0 | 100.0     |
| 0°-180°   | 95152.0 | 100.0     |

**Coefficient of Utilization**



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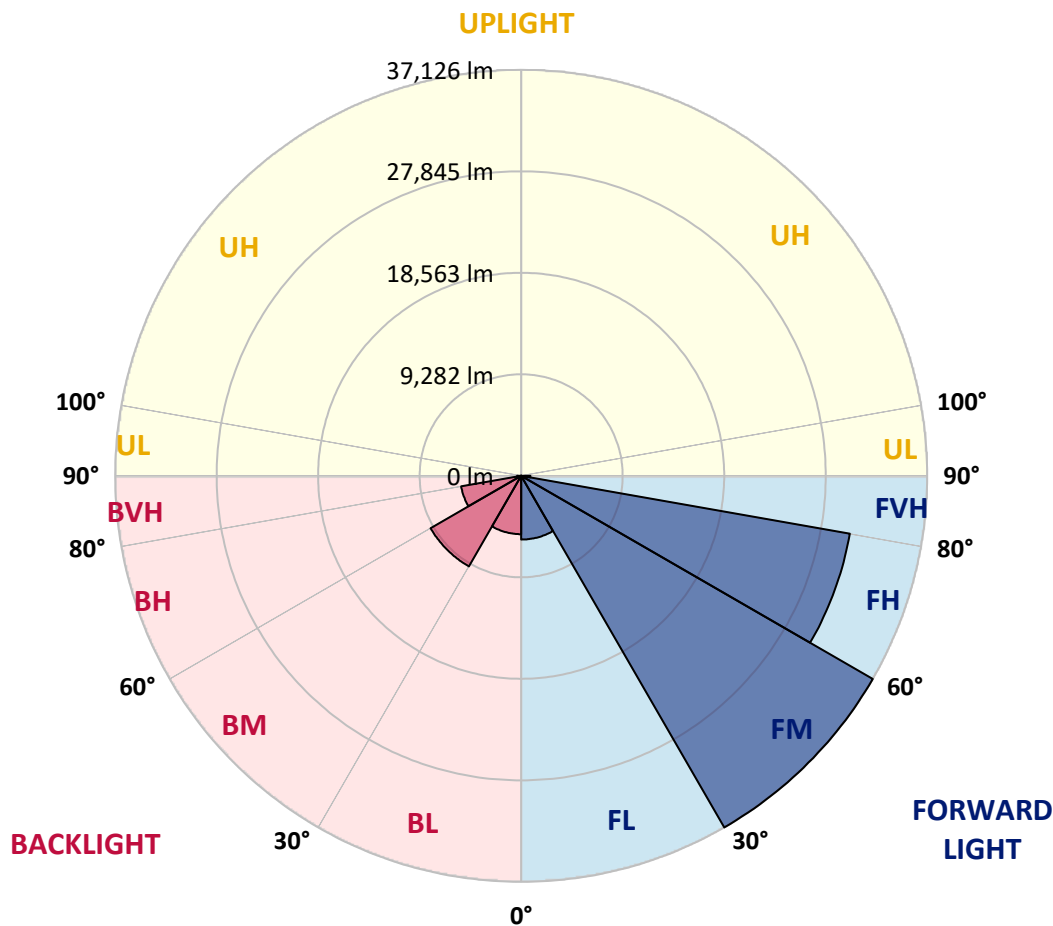
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 5829.6  | 6.1       |                         |      |        |
| FM   | (30°-60°)   | 37126.3 | 39.0      |                         |      |        |
| FH   | (60°-80°)   | 30516.8 | 32.1      |                         |      | G5     |
| FVH  | (80°-90°)   | 842.5   | 0.9       |                         |      | G5     |
| BL   | (0°-30°)    | 5339.0  | 5.6       | B5                      |      |        |
| BM   | (30°-60°)   | 9566.6  | 10.1      | B5                      |      |        |
| BH   | (60°-80°)   | 5568.8  | 5.9       | B5                      |      | G5     |
| BVH  | (80°-90°)   | 362.3   | 0.4       |                         |      | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 |
| 2.5°  | 12236.6 | 12231.7 | 12295.1 | 12314.6 | 12431.5 | 12514.4 | 12670.3 | 12836.0 | 13050.4 | 13074.8 |
| 5°    | 11530.0 | 11530.0 | 11603.1 | 11681.0 | 11832.1 | 11997.8 | 12236.6 | 12524.1 | 12894.5 | 12952.9 |
| 7.5°  | 10930.6 | 10969.6 | 11032.9 | 11184.0 | 11359.4 | 11598.2 | 11963.7 | 12373.0 | 12860.4 | 12952.9 |
| 10°   | 10448.1 | 10492.0 | 10570.0 | 10691.8 | 10954.9 | 11286.3 | 11763.9 | 12290.2 | 12943.2 | 13089.4 |
| 12.5° | 10297.1 | 10340.9 | 10384.8 | 10477.4 | 10721.0 | 11110.9 | 11681.0 | 12329.2 | 13143.0 | 13289.2 |
| 15°   | 10647.9 | 10701.5 | 10667.4 | 10643.0 | 10769.8 | 11125.5 | 11720.0 | 12470.5 | 13391.5 | 13601.1 |
| 17.5° | 11456.9 | 11476.4 | 11398.4 | 11169.4 | 11149.9 | 11339.9 | 11905.2 | 12665.4 | 13703.4 | 13932.5 |
| 20°   | 12762.9 | 12728.8 | 12568.0 | 12114.8 | 11856.5 | 11817.5 | 12222.0 | 12957.8 | 14025.0 | 14268.7 |
| 22.5° | 14536.7 | 14497.7 | 14176.1 | 13459.8 | 12884.7 | 12504.6 | 12680.0 | 13337.9 | 14385.7 | 14658.6 |
| 25°   | 16749.2 | 16695.6 | 16222.9 | 15248.2 | 14356.4 | 13415.9 | 13303.8 | 13839.9 | 14829.1 | 15082.5 |
| 27.5° | 19331.9 | 19288.1 | 18776.4 | 17489.9 | 16203.4 | 14663.4 | 14078.6 | 14429.5 | 15292.1 | 15579.6 |
| 30°   | 22109.7 | 22236.4 | 21330.0 | 19946.0 | 18318.3 | 16291.1 | 15121.5 | 15155.6 | 15891.5 | 16149.8 |
| 32.5° | 25374.7 | 25594.0 | 24502.4 | 22748.1 | 20525.9 | 18060.0 | 16437.3 | 16169.2 | 16763.8 | 16978.2 |
| 35°   | 28610.5 | 28859.0 | 27952.6 | 26013.1 | 23454.7 | 20145.8 | 17811.5 | 17333.9 | 17923.6 | 18157.5 |
| 37.5° | 31407.7 | 31739.1 | 31271.3 | 29585.1 | 26588.1 | 22660.3 | 19604.8 | 18703.3 | 19351.4 | 19643.8 |
| 40°   | 33615.3 | 34122.1 | 34088.0 | 33035.4 | 30282.0 | 25711.0 | 21880.6 | 20394.3 | 21125.3 | 21442.0 |
| 42.5° | 35408.6 | 35847.2 | 36227.3 | 36173.7 | 34136.7 | 29175.8 | 24556.0 | 22592.1 | 23147.7 | 23513.1 |
| 45°   | 36646.4 | 37114.2 | 37932.9 | 38815.0 | 37845.2 | 32884.3 | 27621.2 | 25199.3 | 25706.1 | 26256.8 |
| 47.5° | 37752.6 | 38283.8 | 39346.1 | 40744.7 | 40993.3 | 36607.4 | 30978.9 | 28235.3 | 28698.2 | 29268.4 |
| 50°   | 37850.1 | 38308.2 | 39955.3 | 41938.7 | 43230.1 | 40184.3 | 34585.0 | 31641.6 | 32075.3 | 32684.5 |
| 52.5° | 35496.3 | 36217.6 | 39092.7 | 41904.6 | 44258.3 | 43176.5 | 38166.8 | 35184.4 | 35671.8 | 36402.7 |
| 55°   | 27553.0 | 28610.5 | 36563.6 | 40598.6 | 43892.8 | 45111.1 | 41573.2 | 38951.4 | 39575.2 | 40340.3 |
| 57.5° | 23732.4 | 24195.4 | 29024.7 | 38220.4 | 42226.2 | 45613.1 | 44448.4 | 42757.4 | 43761.3 | 44599.4 |
| 60°   | 21330.0 | 21714.9 | 24570.6 | 34521.7 | 40033.3 | 44818.7 | 46670.5 | 46305.1 | 48039.9 | 49038.9 |
| 62.5° | 18756.9 | 19122.4 | 21719.8 | 28824.9 | 37226.3 | 43498.1 | 48074.0 | 49579.8 | 52425.8 | 53517.4 |
| 65°   | 16203.4 | 16515.2 | 19005.4 | 24219.8 | 33659.1 | 42177.5 | 48800.1 | 52411.2 | 56485.2 | 57615.7 |
| 67.5° | 13357.4 | 13615.7 | 15969.4 | 20433.3 | 29322.0 | 40369.5 | 49160.7 | 54638.2 | 60018.2 | 60988.0 |
| 70°   | 9639.2  | 9839.0  | 12270.7 | 16159.5 | 23878.6 | 37260.4 | 49014.6 | 56217.1 | 61850.5 | 62625.4 |
| 72.5° | 4556.4  | 4736.7  | 7592.4  | 10492.0 | 16866.1 | 31207.9 | 46056.5 | 54964.7 | 59989.0 | 59604.0 |
| 75°   | 2431.7  | 2587.7  | 4361.5  | 5755.2  | 8908.2  | 21393.3 | 37689.3 | 47347.9 | 50374.2 | 48502.9 |
| 77.5° | 1647.1  | 1769.0  | 2699.7  | 3455.1  | 4069.1  | 10155.7 | 24224.6 | 32782.0 | 31539.3 | 28449.7 |
| 80°   | 1306.0  | 1432.7  | 2212.4  | 2339.1  | 1968.8  | 3669.5  | 10009.5 | 15175.1 | 10901.3 | 8718.1  |
| 82.5° | 1003.9  | 1145.2  | 1861.6  | 1695.9  | 1072.1  | 1505.8  | 2914.2  | 4800.1  | 2792.3  | 2124.7  |
| 85°   | 614.0   | 765.1   | 1462.0  | 1081.8  | 604.3   | 687.1   | 989.3   | 1335.3  | 852.8   | 711.5   |
| 87.5° | 311.9   | 438.6   | 740.7   | 394.7   | 272.9   | 160.8   | 263.2   | 263.2   | 224.2   | 194.9   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13274.6 | 0°    | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 | 13274.6 |
| 13206.3 | 2.5°  | 13323.3 | 13420.8 | 13586.5 | 13742.4 | 13864.2 | 13981.2 | 14098.1 | 14161.5 | 14181.0 | 14259.0 |
| 13279.4 | 5°    | 13479.2 | 13659.6 | 13981.2 | 14283.3 | 14473.4 | 14590.3 | 14673.2 | 14721.9 | 14731.7 | 14756.0 |
| 13479.2 | 7.5°  | 13766.8 | 14054.3 | 14502.6 | 14804.8 | 14946.1 | 14936.3 | 14902.2 | 14780.4 | 14731.7 | 14687.8 |
| 13771.6 | 10°   | 14171.2 | 14551.3 | 15102.0 | 15311.6 | 15223.8 | 14989.9 | 14687.8 | 14332.1 | 14166.4 | 14005.6 |
| 14171.2 | 12.5° | 14673.2 | 15155.6 | 15696.5 | 15686.8 | 15253.1 | 14653.7 | 13951.9 | 13406.1 | 13060.2 | 12811.6 |
| 14663.4 | 15°   | 15282.3 | 15837.9 | 16252.1 | 15920.7 | 14970.4 | 13893.5 | 12865.2 | 12153.7 | 11841.9 | 11569.0 |
| 15160.5 | 17.5° | 15911.0 | 16505.5 | 16695.6 | 15847.6 | 14259.0 | 12767.8 | 11603.1 | 11042.7 | 10735.6 | 10589.4 |
| 15696.5 | 20°   | 16525.0 | 17114.6 | 16958.7 | 15428.5 | 13177.1 | 11491.0 | 10453.0 | 10146.0 | 10082.6 | 10116.7 |
| 16218.0 | 22.5° | 17173.1 | 17699.4 | 17012.3 | 14619.6 | 11798.0 | 10185.0 | 9614.8  | 9624.6  | 9765.9  | 9868.2  |
| 16763.8 | 25°   | 17835.9 | 18191.6 | 16871.0 | 13450.0 | 10316.5 | 9225.0  | 9083.6  | 9239.6  | 9517.3  | 9717.1  |
| 17377.8 | 27.5° | 18474.3 | 18630.2 | 16564.0 | 12002.7 | 9044.6  | 8537.8  | 8562.2  | 8883.8  | 9302.9  | 9580.7  |
| 18123.4 | 30°   | 19195.5 | 19020.1 | 15974.3 | 10375.0 | 8162.6  | 7948.2  | 8152.8  | 8528.1  | 8947.2  | 9195.7  |
| 19063.9 | 32.5° | 20009.3 | 19356.3 | 15038.7 | 8869.2  | 7538.8  | 7475.5  | 7811.7  | 8055.4  | 8240.6  | 8313.7  |
| 20311.5 | 35°   | 21022.9 | 19829.0 | 13839.9 | 7811.7  | 6978.4  | 7129.5  | 7451.1  | 7329.3  | 7256.2  | 7217.2  |
| 21987.8 | 37.5° | 22338.7 | 20467.4 | 12436.4 | 7124.6  | 6525.2  | 6880.9  | 7012.5  | 6632.4  | 6344.9  | 6203.6  |
| 24020.0 | 40°   | 23922.5 | 21403.1 | 11086.5 | 6593.4  | 6237.7  | 6666.5  | 6437.5  | 5979.4  | 5613.9  | 5414.1  |
| 26305.5 | 42.5° | 25681.7 | 22382.6 | 9951.1  | 6193.8  | 6076.9  | 6491.1  | 6013.5  | 5467.7  | 4878.1  | 4814.7  |
| 29029.6 | 45°   | 27528.7 | 23391.3 | 9176.2  | 5886.8  | 5998.9  | 6340.0  | 5769.9  | 4887.8  | 4468.7  | 4727.0  |
| 31763.5 | 47.5° | 29375.6 | 24317.2 | 8708.4  | 5657.8  | 5959.9  | 6169.5  | 5555.4  | 4566.2  | 4268.9  | 4644.2  |
| 34692.2 | 50°   | 31432.1 | 25145.7 | 8498.8  | 5492.1  | 5916.1  | 6101.2  | 5233.8  | 4483.3  | 4059.4  | 4307.9  |
| 37723.4 | 52.5° | 33473.9 | 25788.9 | 8342.9  | 5326.4  | 5852.7  | 6047.6  | 5077.9  | 4385.9  | 3806.0  | 3820.6  |
| 40774.0 | 55°   | 35510.9 | 26208.0 | 8172.3  | 5107.1  | 5711.4  | 5930.7  | 5063.2  | 4278.7  | 3615.9  | 3547.7  |
| 44000.0 | 57.5° | 37684.4 | 26446.8 | 7962.8  | 4863.4  | 5467.7  | 5633.4  | 5048.6  | 4195.8  | 3557.4  | 3445.3  |
| 47299.2 | 60°   | 39896.8 | 26797.7 | 7689.9  | 4566.2  | 5141.2  | 5277.7  | 5014.5  | 4166.6  | 3523.3  | 3333.3  |
| 50408.3 | 62.5° | 41880.2 | 26919.5 | 7363.4  | 4283.5  | 4722.1  | 4926.8  | 4941.4  | 4142.2  | 3430.7  | 3104.2  |
| 52991.1 | 65°   | 43181.3 | 26393.2 | 6793.2  | 3961.9  | 4268.9  | 4566.2  | 4800.1  | 4059.4  | 3265.0  | 2938.5  |
| 54267.9 | 67.5° | 43127.7 | 24892.3 | 5901.4  | 3547.7  | 3830.3  | 4166.6  | 4595.4  | 3918.0  | 3065.2  | 2733.9  |
| 53303.0 | 70°   | 41120.0 | 21929.4 | 4770.9  | 3065.2  | 3347.9  | 3737.7  | 4332.3  | 3708.5  | 2826.5  | 2509.7  |
| 47396.7 | 72.5° | 35267.3 | 17163.4 | 3464.8  | 2499.9  | 2787.5  | 3294.3  | 3991.1  | 3455.1  | 2582.8  | 2309.9  |
| 35028.5 | 75°   | 25194.4 | 10862.3 | 2348.9  | 1920.0  | 2168.6  | 2792.3  | 3567.2  | 3157.8  | 2358.6  | 2319.6  |
| 17543.5 | 77.5° | 12870.1 | 5189.9  | 1554.5  | 1403.5  | 1510.7  | 2202.7  | 2997.0  | 2821.6  | 2392.7  | 1915.2  |
| 4990.1  | 80°   | 4186.1  | 1915.2  | 979.5   | 955.1   | 1003.9  | 1466.8  | 2319.6  | 2314.8  | 1812.8  | 1301.1  |
| 1208.6  | 82.5° | 1335.3  | 823.6   | 638.4   | 614.0   | 589.7   | 921.0   | 1617.9  | 1832.3  | 1223.2  | 823.6   |
| 433.7   | 85°   | 531.2   | 492.2   | 375.2   | 346.0   | 248.5   | 433.7   | 847.9   | 1218.3  | 911.3   | 594.5   |
| 112.1   | 87.5° | 194.9   | 194.9   | 102.3   | 73.1    | 53.6    | 146.2   | 229.0   | 365.5   | 521.4   | 307.0   |
| 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°    |
|---------|
| 13274.6 |
| 14302.8 |
| 14795.0 |
| 14697.5 |
| 13956.8 |
| 12753.1 |
| 11539.7 |
| 10633.3 |
| 10102.1 |
| 9892.6  |
| 9770.7  |
| 9648.9  |
| 9254.2  |
| 8352.6  |
| 7256.2  |
| 6237.7  |
| 5428.7  |
| 4878.1  |
| 4863.4  |
| 4819.6  |
| 4493.1  |
| 3922.9  |
| 3596.4  |
| 3460.0  |
| 3347.9  |
| 3104.2  |
| 2938.5  |
| 2748.5  |
| 2538.9  |
| 2295.3  |
| 2188.1  |
| 1705.6  |
| 1150.1  |
| 818.7   |
| 609.1   |
| 302.1   |
| 0.0     |

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