

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: STREETWORKS

Report Number: P851666

Luminaire Tested: **GLAN-SB9D-730-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P851666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9D-730-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 88714 lumens  
Efficiency: N/A  
Efficacy: 134.8 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

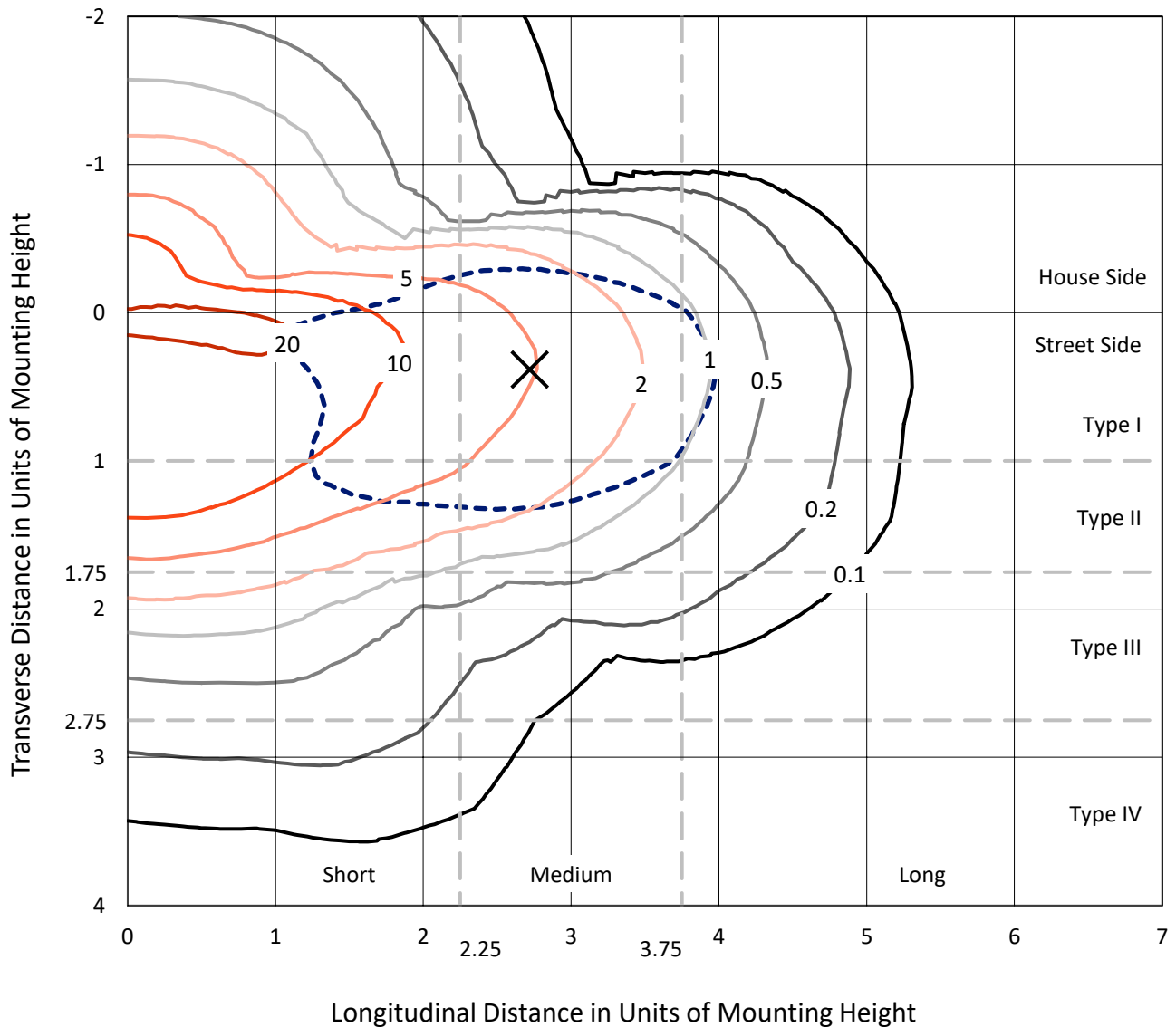
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

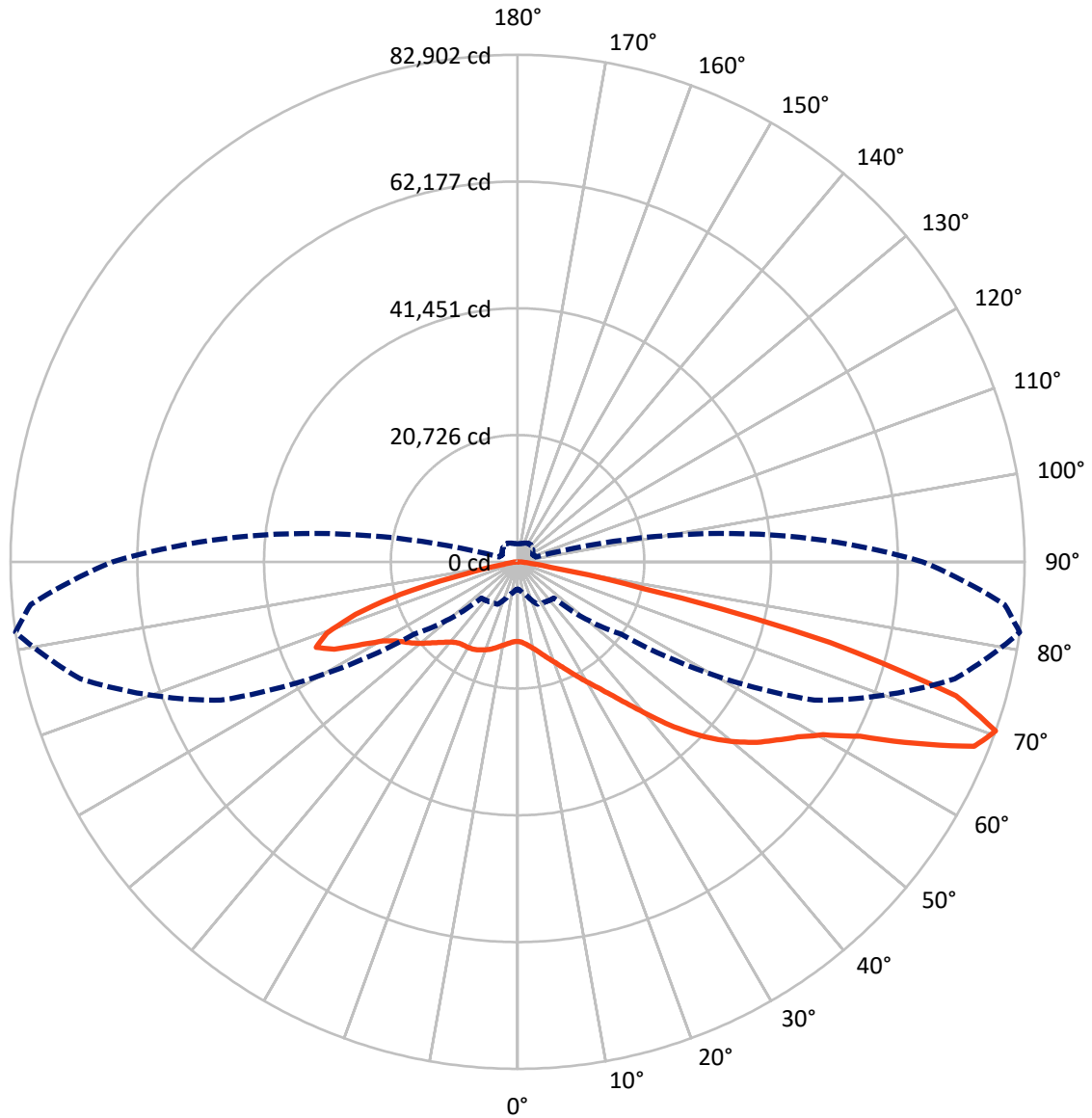
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21870.2  | 0.0    | 21870.2 |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 66843.8  | 0.0    | 66843.8 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 88714.0  | 0.0    | 88714.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1228.1  | 1.4       |
| 10°-20°   | 3528.3  | 4.0       |
| 20°-30°   | 5902.4  | 6.7       |
| 30°-40°   | 9221.1  | 10.4      |
| 40°-50°   | 14685.7 | 16.6      |
| 50°-60°   | 20437.0 | 23.0      |
| 60°-70°   | 21378.0 | 24.1      |
| 70°-80°   | 11173.3 | 12.6      |
| 80°-90°   | 1160.2  | 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°    | 88714.0 | 100.0     |
| 0°-180°   | 88714.0 | 100.0     |

**Coefficient of Utilization**

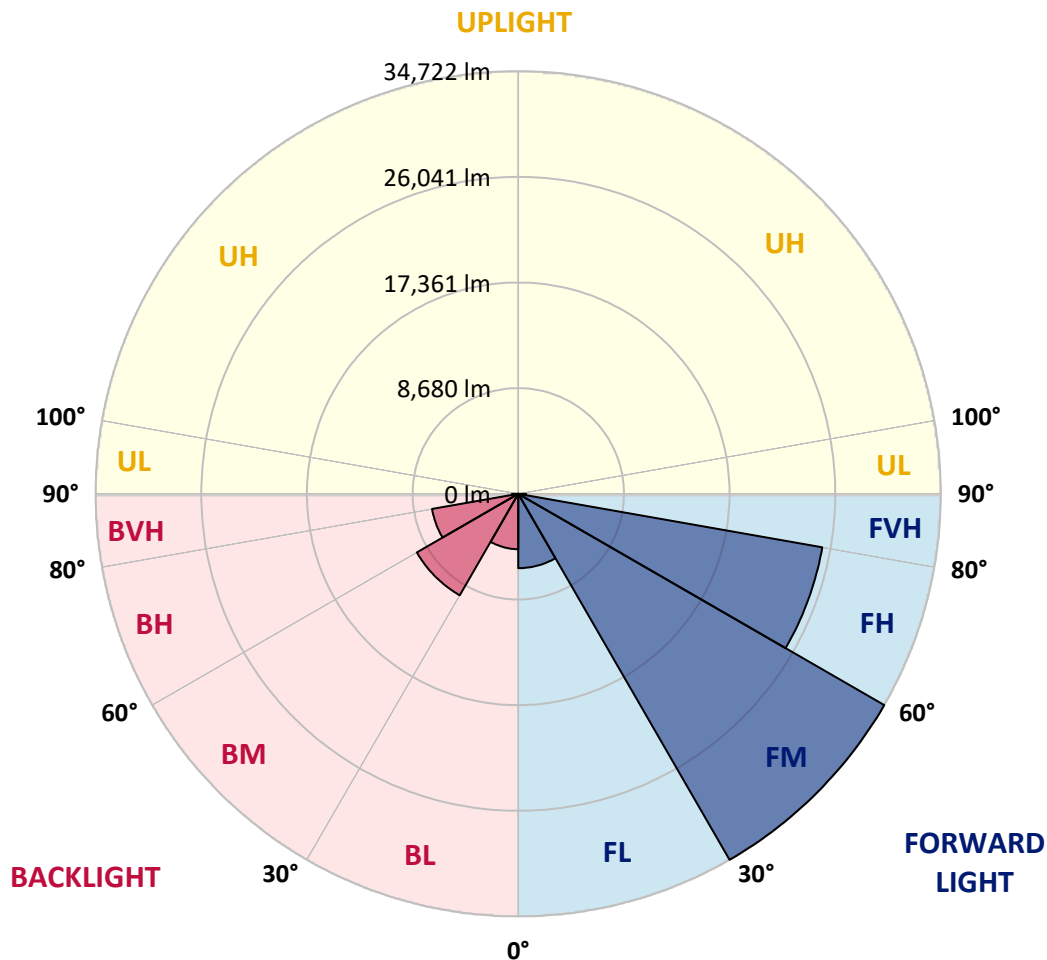


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 6108.9  | 6.9       |                         |      |        |
| FM (30°-60°)   | 34721.8 | 39.1      |                         |      |        |
| FH (60°-80°)   | 25363.6 | 28.6      |                         |      | G5     |
| FVH (80°-90°)  | 649.5   | 0.7       |                         |      | G4/750 |
| BL (0°-30°)    | 4549.8  | 5.1       | B4/5000                 |      |        |
| BM (30°-60°)   | 9622.0  | 10.8      | B5                      |      |        |
| BH (60°-80°)   | 7187.6  | 8.1       | B5                      |      | G5     |
| BVH (80°-90°)  | 510.7   | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 |
| 2.5°  | 13317.3 | 13392.6 | 13369.1 | 13345.5 | 13345.5 | 13312.6 | 13307.9 | 13260.8 | 13223.1 | 13161.9 |
| 5°    | 13486.7 | 13566.8 | 13557.3 | 13576.2 | 13637.4 | 13651.5 | 13665.6 | 13637.4 | 13562.1 | 13486.7 |
| 7.5°  | 13336.1 | 13425.5 | 13453.8 | 13566.8 | 13755.1 | 13924.5 | 14051.6 | 14103.4 | 14032.8 | 13924.5 |
| 10°   | 12827.7 | 12926.6 | 13025.4 | 13293.7 | 13628.0 | 14028.1 | 14367.0 | 14569.4 | 14555.3 | 14451.8 |
| 12.5° | 11796.8 | 11900.3 | 12112.2 | 12634.7 | 13246.7 | 13952.8 | 14583.6 | 15007.2 | 15153.2 | 15077.8 |
| 15°   | 10973.0 | 11062.4 | 11222.5 | 11759.1 | 12554.7 | 13628.0 | 14663.6 | 15487.4 | 15859.3 | 15816.9 |
| 17.5° | 10949.4 | 10987.1 | 11086.0 | 11340.2 | 11952.1 | 13119.6 | 14578.9 | 15958.1 | 16668.9 | 16664.2 |
| 20°   | 11363.7 | 11377.8 | 11434.3 | 11486.1 | 11834.4 | 12733.6 | 14362.3 | 16348.8 | 17577.5 | 17577.5 |
| 22.5° | 11938.0 | 11928.6 | 11985.1 | 11938.0 | 12107.5 | 12700.6 | 14225.8 | 16692.5 | 18589.6 | 18664.9 |
| 25°   | 12799.5 | 12752.4 | 12738.3 | 12630.0 | 12662.9 | 13006.6 | 14376.4 | 17083.2 | 19790.0 | 19945.3 |
| 27.5° | 13948.1 | 13872.7 | 13821.0 | 13571.5 | 13486.7 | 13637.4 | 14837.8 | 17553.9 | 21126.9 | 21395.2 |
| 30°   | 15445.0 | 15308.5 | 15233.2 | 14800.1 | 14494.1 | 14517.7 | 15534.5 | 18180.0 | 22525.0 | 22958.1 |
| 32.5° | 17488.0 | 17276.2 | 17073.8 | 16363.0 | 15802.8 | 15619.2 | 16433.6 | 19046.2 | 24040.8 | 24732.7 |
| 35°   | 19775.8 | 19606.4 | 19389.8 | 18293.0 | 17431.5 | 17007.9 | 17648.1 | 20256.0 | 25815.5 | 26912.3 |
| 37.5° | 21978.9 | 21833.0 | 21936.5 | 20458.4 | 19347.5 | 18730.8 | 19239.2 | 21880.1 | 28004.4 | 29623.7 |
| 40°   | 24257.3 | 24144.3 | 24158.4 | 22746.2 | 21451.7 | 20759.7 | 21169.2 | 23918.4 | 30513.5 | 32848.3 |
| 42.5° | 26733.4 | 26648.7 | 26366.2 | 25114.0 | 23659.5 | 23014.5 | 23391.1 | 26272.1 | 33206.1 | 36520.1 |
| 45°   | 29506.1 | 29454.3 | 29190.7 | 27754.9 | 26088.5 | 25363.5 | 25871.9 | 28870.6 | 35912.9 | 39975.4 |
| 47.5° | 31902.1 | 31944.5 | 31911.6 | 30701.7 | 28974.1 | 27910.3 | 28517.5 | 31582.0 | 38431.3 | 43223.5 |
| 50°   | 33055.5 | 33276.7 | 33601.5 | 33224.9 | 32151.6 | 31068.9 | 31186.6 | 34199.4 | 40832.1 | 46269.2 |
| 52.5° | 32452.9 | 32871.9 | 33756.9 | 34359.4 | 34773.7 | 34547.7 | 34232.3 | 36797.8 | 43091.7 | 49018.3 |
| 55°   | 30207.5 | 30795.9 | 32264.6 | 33719.2 | 35832.8 | 37475.7 | 37890.0 | 39678.8 | 45294.7 | 51437.9 |
| 57.5° | 26116.7 | 27072.3 | 28390.4 | 31332.5 | 34891.3 | 38892.6 | 42154.9 | 43675.4 | 47629.6 | 54022.3 |
| 60°   | 19102.7 | 20383.1 | 22021.3 | 26399.2 | 31596.2 | 38134.8 | 45784.3 | 49813.8 | 50948.3 | 57369.2 |
| 62.5° | 12225.2 | 13016.0 | 14522.4 | 18646.1 | 24619.8 | 34251.1 | 46895.2 | 57486.9 | 56573.7 | 62858.1 |
| 65°   | 8369.8  | 8878.2  | 10257.5 | 12573.5 | 15915.8 | 25495.3 | 43920.2 | 63239.4 | 65508.4 | 71557.4 |
| 67.5° | 6082.0  | 6468.0  | 7644.8  | 9673.7  | 10370.4 | 15087.3 | 34081.7 | 62975.8 | 74193.5 | 80520.3 |
| 70°   | 4434.4  | 4707.4  | 5696.0  | 7644.8  | 7979.1  | 8393.3  | 20646.7 | 53532.7 | 74005.2 | 82902.2 |
| 72.5° | 3285.8  | 3474.1  | 4137.8  | 5931.3  | 6458.6  | 5667.7  | 10219.8 | 38906.8 | 63592.4 | 74984.4 |
| 75°   | 2377.2  | 2518.5  | 3008.0  | 4537.9  | 5168.7  | 4316.7  | 5098.1  | 22736.8 | 44358.0 | 52746.6 |
| 77.5° | 1817.1  | 1925.3  | 2245.4  | 3323.4  | 4137.8  | 3238.7  | 3163.4  | 10459.9 | 21032.7 | 21136.3 |
| 80°   | 1459.3  | 1529.9  | 1704.1  | 2339.6  | 3172.8  | 2424.3  | 2061.8  | 4222.5  | 6646.9  | 5625.4  |
| 82.5° | 1073.3  | 1191.0  | 1440.5  | 1642.9  | 2269.0  | 1671.1  | 1256.9  | 2132.5  | 2527.9  | 2174.8  |
| 85°   | 612.0   | 692.0   | 870.9   | 1176.9  | 1449.9  | 1021.5  | 720.2   | 946.2   | 1176.9  | 965.0   |
| 87.5° | 216.5   | 282.4   | 306.0   | 461.3   | 630.8   | 423.7   | 277.7   | 273.0   | 386.0   | 287.2   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13006.6 | 0°    | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 | 13006.6 |
| 13147.8 | 2.5°  | 13100.7 | 13077.2 | 12983.0 | 12855.9 | 12724.1 | 12597.0 | 12554.7 | 12465.2 | 12404.0 | 12371.1 |
| 13453.8 | 5°    | 13364.3 | 13289.0 | 13067.8 | 12785.3 | 12488.8 | 12168.7 | 11942.7 | 11735.6 | 11584.9 | 11443.7 |
| 13872.7 | 7.5°  | 13740.9 | 13609.1 | 13227.8 | 12733.6 | 12206.3 | 11674.4 | 11279.0 | 10977.7 | 10775.3 | 10643.5 |
| 14362.3 | 10°   | 14178.7 | 13976.3 | 13392.6 | 12653.5 | 11839.1 | 11076.5 | 10610.5 | 10351.6 | 10224.5 | 10153.9 |
| 14922.5 | 12.5° | 14682.4 | 14395.3 | 13562.1 | 12469.9 | 11279.0 | 10408.1 | 10088.0 | 10012.7 | 10017.4 | 10022.1 |
| 15628.6 | 15°   | 15303.8 | 14903.7 | 13698.6 | 12069.8 | 10549.3 | 9895.0  | 9838.5  | 9960.9  | 10088.0 | 10149.2 |
| 16428.9 | 17.5° | 16005.2 | 15440.3 | 13722.1 | 11410.8 | 9833.8  | 9565.5  | 9744.3  | 10008.0 | 10201.0 | 10285.7 |
| 17323.3 | 20°   | 16758.4 | 15986.4 | 13552.6 | 10478.7 | 9245.4  | 9297.1  | 9617.2  | 9956.2  | 10168.0 | 10276.3 |
| 18344.8 | 22.5° | 17619.8 | 16570.1 | 13147.8 | 9499.6  | 8765.2  | 9005.3  | 9381.9  | 9711.4  | 9932.6  | 10040.9 |
| 19545.2 | 25°   | 18603.7 | 17224.4 | 12512.3 | 8675.8  | 8351.0  | 8675.8  | 9052.4  | 9325.4  | 9504.3  | 9603.1  |
| 20886.8 | 27.5° | 19695.8 | 17907.0 | 11665.0 | 8021.4  | 7988.5  | 8336.8  | 8647.5  | 8859.4  | 8953.5  | 9028.8  |
| 22313.1 | 30°   | 20792.6 | 18528.4 | 10638.8 | 7527.2  | 7673.1  | 8002.6  | 8223.9  | 8318.0  | 8346.2  | 8360.4  |
| 23904.2 | 32.5° | 21978.9 | 19065.0 | 9560.8  | 7117.6  | 7371.8  | 7677.8  | 7809.6  | 7852.0  | 7720.2  | 7630.7  |
| 25834.3 | 35°   | 23414.7 | 19639.3 | 8506.3  | 6792.8  | 7075.2  | 7338.9  | 7381.2  | 7343.6  | 7188.2  | 7004.6  |
| 28253.9 | 37.5° | 25189.4 | 20354.9 | 7663.7  | 6562.1  | 6797.5  | 6971.7  | 6919.9  | 6910.5  | 6924.6  | 6708.1  |
| 31163.1 | 40°   | 27364.2 | 21286.9 | 7047.0  | 6383.3  | 6571.5  | 6609.2  | 6463.3  | 6543.3  | 6613.9  | 6284.4  |
| 34354.7 | 42.5° | 29779.1 | 22412.0 | 6656.3  | 6260.9  | 6383.3  | 6293.8  | 6067.9  | 6157.3  | 6147.9  | 5714.8  |
| 37560.4 | 45°   | 32241.1 | 23635.9 | 6519.8  | 6171.4  | 6209.1  | 6030.2  | 5780.7  | 5804.2  | 5606.5  | 5215.8  |
| 40634.4 | 47.5° | 34688.9 | 24949.3 | 6604.5  | 6096.1  | 5992.5  | 5790.1  | 5597.1  | 5493.6  | 5201.7  | 4909.8  |
| 43581.2 | 50°   | 37089.7 | 26328.6 | 6915.2  | 5945.5  | 5696.0  | 5578.3  | 5437.1  | 5253.5  | 4942.8  | 4693.3  |
| 46368.0 | 52.5° | 39316.3 | 27717.2 | 7263.5  | 5696.0  | 5324.1  | 5394.7  | 5305.3  | 5093.4  | 4787.4  | 4533.2  |
| 49004.2 | 55°   | 41425.2 | 29105.9 | 7400.1  | 5352.3  | 4975.7  | 5234.6  | 5182.9  | 4792.1  | 4425.0  | 4217.8  |
| 51762.7 | 57.5° | 43722.5 | 30777.1 | 7249.4  | 4914.5  | 4693.3  | 5051.1  | 4853.3  | 4420.3  | 4208.4  | 4053.1  |
| 55354.5 | 60°   | 46904.7 | 33399.1 | 6924.6  | 4373.2  | 4425.0  | 4778.0  | 4439.1  | 4260.2  | 4029.5  | 3855.4  |
| 60739.7 | 62.5° | 52191.1 | 38290.1 | 6402.1  | 3836.5  | 4109.6  | 4373.2  | 4241.4  | 4062.5  | 3827.1  | 3657.7  |
| 69947.4 | 65°   | 60005.4 | 45087.6 | 5418.2  | 3417.6  | 3756.5  | 3977.8  | 4029.5  | 3850.7  | 3605.9  | 3427.0  |
| 78016.0 | 67.5° | 66595.8 | 49352.5 | 4100.2  | 3069.2  | 3394.0  | 3657.7  | 3803.6  | 3629.4  | 3370.5  | 3196.3  |
| 79903.6 | 70°   | 66233.3 | 46255.0 | 3130.4  | 2725.6  | 3073.9  | 3342.3  | 3530.6  | 3394.0  | 3116.3  | 2951.5  |
| 72578.9 | 72.5° | 58828.5 | 38694.9 | 2532.6  | 2377.2  | 2749.1  | 3012.7  | 3238.7  | 3135.1  | 2852.7  | 2692.6  |
| 53170.2 | 75°   | 43218.8 | 27467.8 | 2024.2  | 2024.2  | 2344.3  | 2669.1  | 2918.6  | 2852.7  | 2593.8  | 2480.8  |
| 22322.6 | 77.5° | 18217.7 | 11523.7 | 1586.4  | 1680.5  | 1948.9  | 2292.5  | 2603.2  | 2626.7  | 2400.8  | 2542.0  |
| 5903.1  | 80°   | 4843.9  | 3177.5  | 1209.8  | 1322.8  | 1529.9  | 1892.4  | 2264.3  | 2254.9  | 2010.1  | 1878.3  |
| 2193.7  | 82.5° | 1845.3  | 1252.2  | 861.5   | 932.1   | 1106.2  | 1449.9  | 1793.5  | 1850.0  | 1605.2  | 1388.7  |
| 861.5   | 85°   | 710.8   | 536.6   | 531.9   | 560.2   | 644.9   | 960.3   | 1355.7  | 1402.8  | 1209.8  | 1026.2  |
| 240.1   | 87.5° | 183.6   | 160.1   | 197.7   | 188.3   | 296.6   | 513.1   | 776.7   | 805.0   | 739.1   | 428.4   |
| 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°    |
|---------|
| 13006.6 |
| 12408.7 |
| 11500.2 |
| 10671.7 |
| 10172.7 |
| 10031.5 |
| 10144.5 |
| 10304.5 |
| 10304.5 |
| 10069.2 |
| 9631.4  |
| 9057.1  |
| 8393.3  |
| 7659.0  |
| 7014.0  |
| 6722.2  |
| 6293.8  |
| 5710.1  |
| 5229.9  |
| 4909.8  |
| 4674.5  |
| 4537.9  |
| 4199.0  |
| 4039.0  |
| 3846.0  |
| 3657.7  |
| 3436.4  |
| 3201.0  |
| 2965.7  |
| 2692.6  |
| 2447.9  |
| 2306.6  |
| 1746.5  |
| 1388.7  |
| 1059.2  |
| 612.0   |
| 0.0     |

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