

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: P944769

Luminaire Tested: **GLAN-SB9D-840-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944769  
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: STREETWORKS  
Catalog Number: GLAN-SB9D-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 87626 lumens  
Efficiency: N/A  
Efficacy: 133.2 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): 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



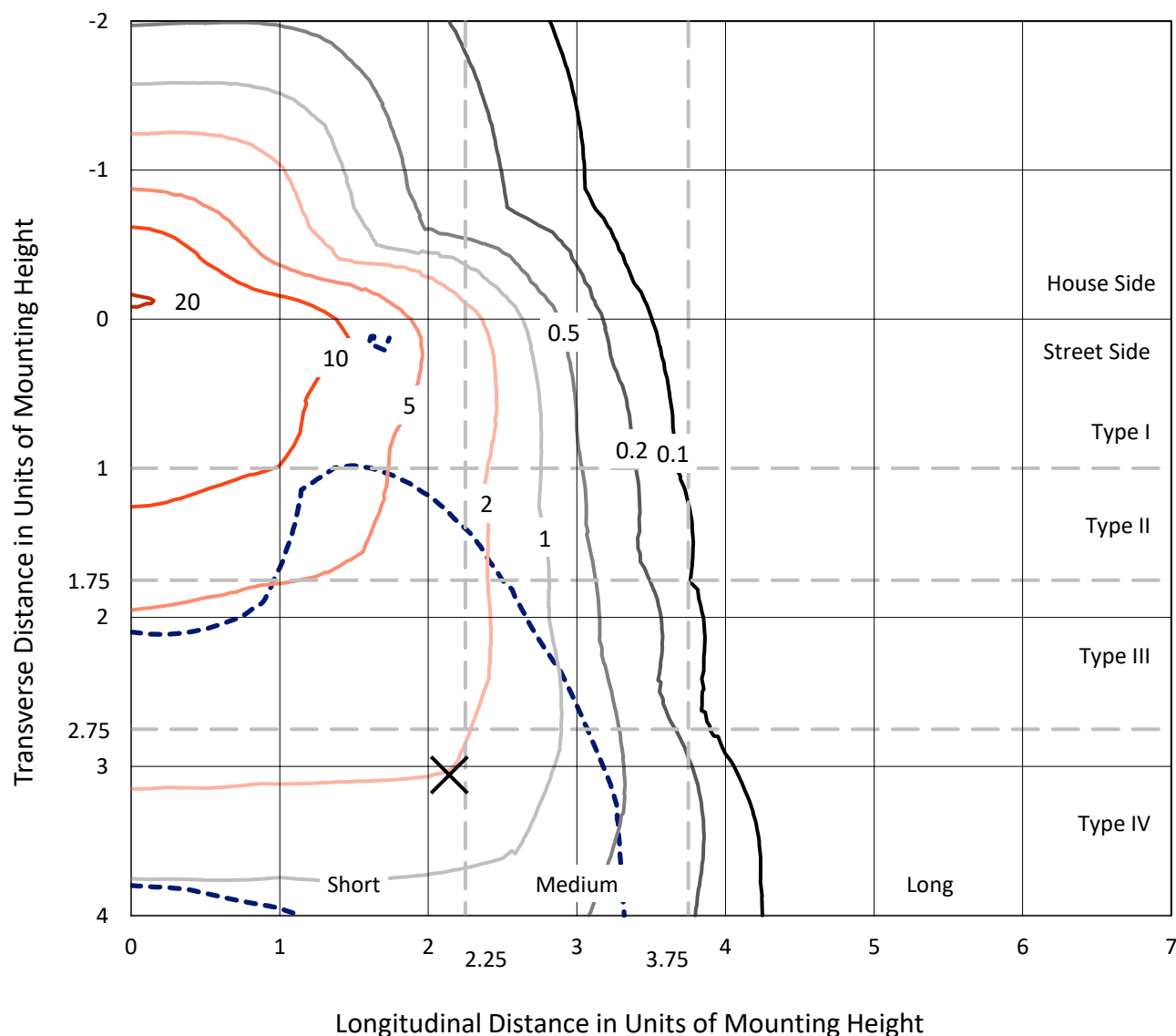
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



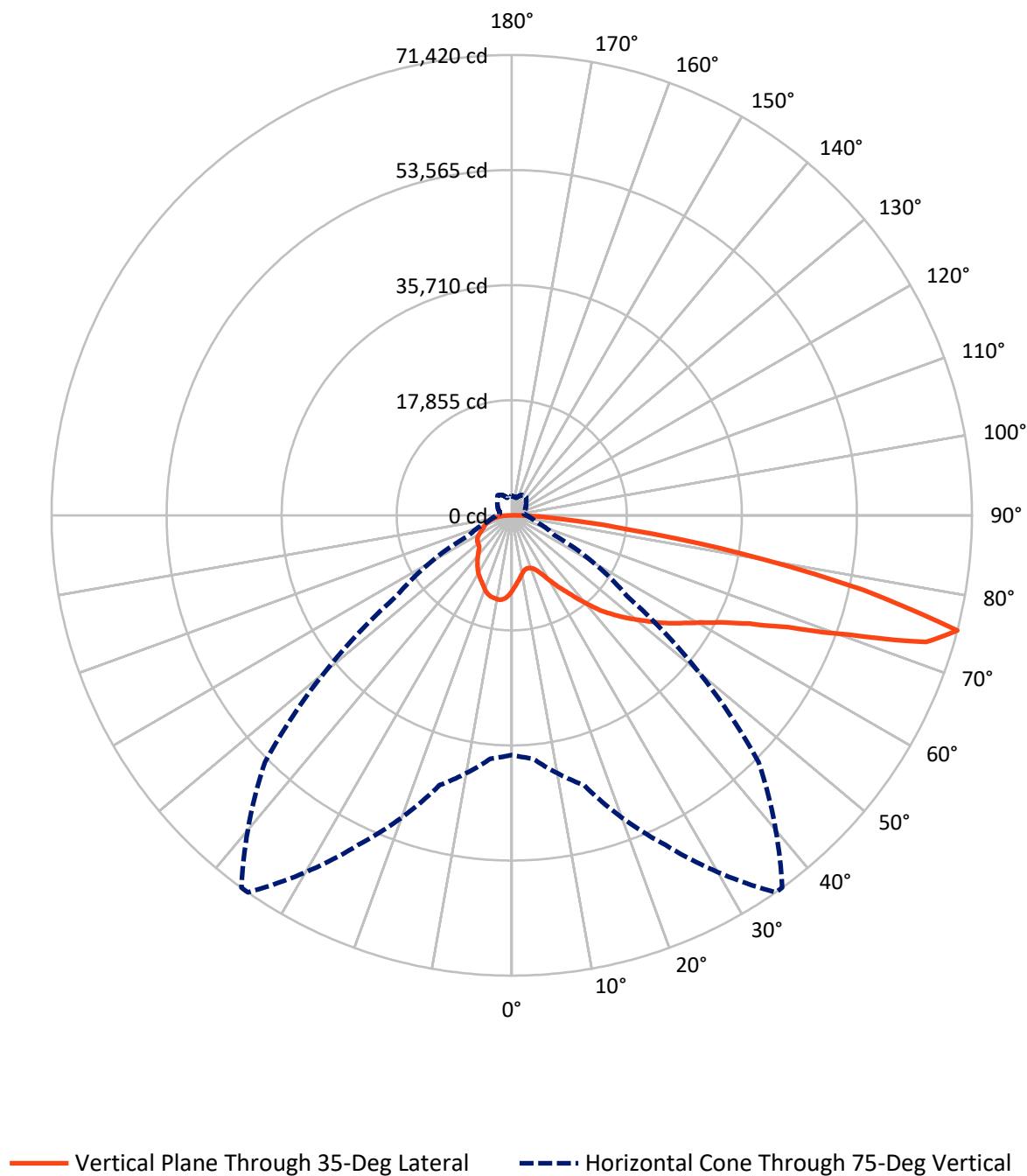
Based on 25 foot mounting height. Maximum calculated value = 20.7 fc

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    | 20852.8  | 0.0    | 20852.8 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 66773.2  | 0.0    | 66773.2 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 87626.0  | 0.0    | 87626.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1105.6  | 1.3       |
| 10°-20°   | 3188.9  | 3.6       |
| 20°-30°   | 5355.0  | 6.1       |
| 30°-40°   | 8322.4  | 9.5       |
| 40°-50°   | 12352.7 | 14.1      |
| 50°-60°   | 17053.6 | 19.5      |
| 60°-70°   | 20689.9 | 23.6      |
| 70°-80°   | 17098.6 | 19.5      |
| 80°-90°   | 2459.3  | 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°    | 87626.0 | 100.0     |
| 0°-180°   | 87626.0 | 100.0     |

**Coefficient of Utilization**



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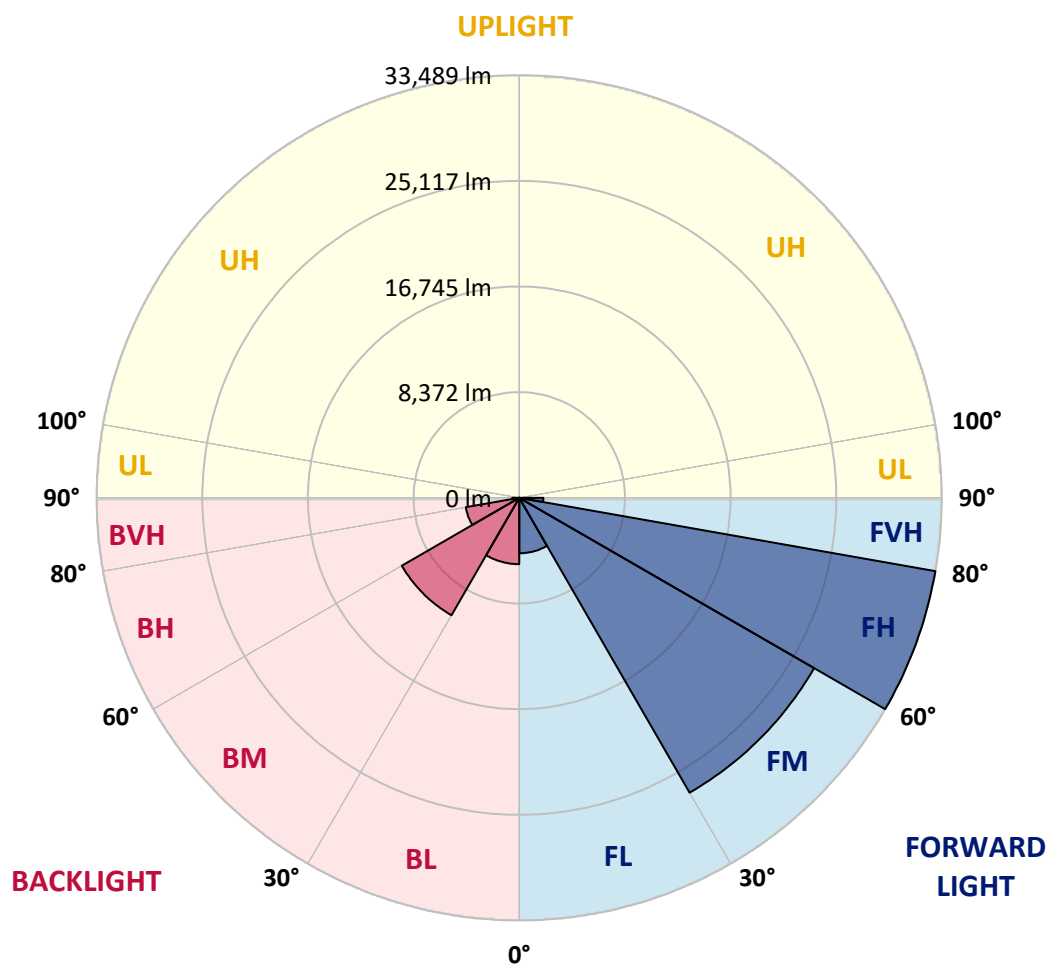
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4394.3  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 26984.1 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 33489.3 | 38.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 1905.5  | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 5255.2  | 6.0       | B5                      |      |         |
| BM   | (30°-60°)   | 10744.6 | 12.3      | B5                      |      |         |
| BH   | (60°-80°)   | 4299.2  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 553.8   | 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°    | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 |
| 2.5°  | 10767.2 | 10833.6 | 10862.0 | 10847.8 | 10918.8 | 10909.4 | 11008.8 | 11132.0 | 11302.5 | 11468.3 |
| 5°    | 9938.3  | 10009.3 | 10070.9 | 10127.8 | 10265.1 | 10307.8 | 10464.1 | 10700.9 | 11013.6 | 11331.0 |
| 7.5°  | 9166.1  | 9227.7  | 9322.5  | 9426.7  | 9658.8  | 9701.4  | 9962.0  | 10331.4 | 10767.2 | 11231.5 |
| 10°   | 8536.1  | 8597.7  | 8697.2  | 8815.6  | 9104.6  | 9156.7  | 9488.3  | 9980.9  | 10549.3 | 11136.7 |
| 12.5° | 8266.1  | 8285.1  | 8341.9  | 8460.3  | 8711.4  | 8744.5  | 9109.3  | 9673.0  | 10336.2 | 11065.7 |
| 15°   | 8251.9  | 8289.8  | 8294.5  | 8356.1  | 8564.5  | 8578.7  | 8915.1  | 9474.0  | 10203.5 | 11051.5 |
| 17.5° | 8394.0  | 8422.4  | 8379.8  | 8417.7  | 8593.0  | 8616.6  | 8881.9  | 9379.3  | 10160.9 | 11113.1 |
| 20°   | 8773.0  | 8796.6  | 8668.7  | 8616.6  | 8744.5  | 8763.5  | 9024.0  | 9440.9  | 10203.5 | 11241.0 |
| 22.5° | 9578.3  | 9592.5  | 9279.8  | 9066.7  | 9076.1  | 9085.6  | 9313.0  | 9691.9  | 10369.3 | 11473.1 |
| 25°   | 10833.6 | 10824.1 | 10326.7 | 9914.6  | 9677.7  | 9625.6  | 9777.2  | 10099.3 | 10648.8 | 11781.0 |
| 27.5° | 12302.0 | 12231.0 | 11733.6 | 11117.8 | 10601.5 | 10525.7 | 10492.5 | 10629.9 | 11046.7 | 12188.4 |
| 30°   | 13960.0 | 13893.7 | 13358.4 | 12553.1 | 11837.8 | 11714.7 | 11402.0 | 11331.0 | 11638.9 | 12742.6 |
| 32.5° | 15779.0 | 15736.4 | 15096.9 | 14121.1 | 13164.2 | 13022.1 | 12496.3 | 12306.8 | 12548.4 | 13581.0 |
| 35°   | 17304.3 | 17266.4 | 16735.9 | 15731.6 | 14561.6 | 14386.3 | 13851.0 | 13637.9 | 13761.0 | 14656.3 |
| 37.5° | 18682.8 | 18663.9 | 18209.1 | 17418.0 | 16210.1 | 15996.9 | 15395.3 | 15324.3 | 15300.6 | 16072.7 |
| 40°   | 19961.8 | 19914.4 | 19440.7 | 19023.9 | 18128.6 | 17934.4 | 17403.8 | 17342.2 | 17162.2 | 17815.9 |
| 42.5° | 21378.2 | 21255.0 | 20568.1 | 20373.9 | 20132.3 | 19971.3 | 19653.9 | 19663.4 | 19265.5 | 19781.8 |
| 45°   | 22534.0 | 22463.0 | 21757.1 | 21643.4 | 21904.0 | 21837.7 | 22112.4 | 22183.5 | 21411.3 | 21842.4 |
| 47.5° | 23775.1 | 23708.8 | 23111.9 | 23031.4 | 23737.2 | 23756.2 | 24727.3 | 24750.9 | 23505.1 | 23983.5 |
| 50°   | 25305.2 | 25210.4 | 24618.3 | 24717.8 | 25508.9 | 25579.9 | 27356.3 | 27195.2 | 25433.1 | 26157.8 |
| 52.5° | 26314.2 | 26371.0 | 26243.1 | 26404.2 | 27484.2 | 27550.5 | 29942.7 | 29530.6 | 27342.1 | 28303.7 |
| 55°   | 27057.9 | 27171.6 | 27569.5 | 27939.0 | 29568.5 | 29634.8 | 32382.3 | 31752.3 | 28924.3 | 30293.3 |
| 57.5° | 28014.7 | 27853.7 | 28597.4 | 29317.4 | 31548.6 | 31723.8 | 34755.5 | 33893.4 | 30326.4 | 32008.1 |
| 60°   | 29388.5 | 29274.8 | 29852.7 | 30918.5 | 33765.5 | 34045.0 | 37266.1 | 35821.4 | 31354.3 | 33367.6 |
| 62.5° | 32173.8 | 31889.6 | 31979.6 | 32922.3 | 36560.3 | 36929.8 | 40098.9 | 37503.0 | 31865.9 | 33898.1 |
| 65°   | 36337.7 | 35849.8 | 35395.0 | 36048.7 | 40496.8 | 40861.5 | 43296.4 | 38824.6 | 31676.5 | 32870.2 |
| 67.5° | 41581.6 | 41098.4 | 40539.4 | 41155.2 | 46294.9 | 46583.9 | 47242.3 | 39568.3 | 30184.3 | 28910.0 |
| 70°   | 45906.5 | 45726.5 | 46394.4 | 48928.7 | 55555.8 | 55565.3 | 52301.5 | 38952.5 | 26096.2 | 20497.1 |
| 72.5° | 45333.3 | 45224.3 | 48743.9 | 56579.0 | 67227.8 | 66976.7 | 57090.6 | 34291.3 | 17579.1 | 9246.7  |
| 75°   | 37190.4 | 37896.2 | 43348.5 | 56441.6 | 71420.1 | 71386.9 | 54158.4 | 21799.8 | 7271.3  | 3832.3  |
| 77.5° | 19942.9 | 21060.8 | 28142.6 | 41671.6 | 55754.7 | 56593.2 | 38076.2 | 7626.6  | 3121.7  | 2453.8  |
| 80°   | 6503.9  | 7479.8  | 11217.3 | 21217.1 | 36228.7 | 36072.4 | 16319.0 | 2993.8  | 2136.4  | 1738.5  |
| 82.5° | 2761.7  | 2875.4  | 5011.8  | 10018.8 | 18592.8 | 18303.8 | 5196.5  | 1719.5  | 1501.6  | 1189.0  |
| 85°   | 1080.0  | 1207.9  | 2212.2  | 4632.8  | 8052.9  | 7877.7  | 1875.9  | 852.7   | 961.6   | 776.9   |
| 87.5° | 355.3   | 431.1   | 791.1   | 1586.9  | 2505.9  | 2415.9  | 459.5   | 293.7   | 416.9   | 355.3   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11676.8 | 0°    | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 | 11676.8 |
| 11709.9 | 2.5°  | 11776.2 | 11852.0 | 11942.0 | 12074.7 | 12188.4 | 12283.1 | 12382.6 | 12444.2 | 12467.8 | 12538.9 |
| 11728.9 | 5°    | 11861.5 | 12027.3 | 12249.9 | 12467.8 | 12681.0 | 12808.9 | 12922.6 | 12979.4 | 13031.5 | 13069.4 |
| 11781.0 | 7.5°  | 12003.6 | 12216.8 | 12567.3 | 12851.5 | 13031.5 | 13135.8 | 13211.6 | 13192.6 | 13211.6 | 13221.0 |
| 11837.8 | 10°   | 12126.8 | 12425.2 | 12842.1 | 13112.1 | 13249.4 | 13254.2 | 13235.2 | 13168.9 | 13135.8 | 13140.5 |
| 11923.1 | 12.5° | 12273.6 | 12605.2 | 13055.2 | 13282.6 | 13320.5 | 13216.3 | 13135.8 | 13022.1 | 12979.4 | 12960.5 |
| 12051.0 | 15°   | 12472.6 | 12851.5 | 13287.3 | 13372.6 | 13277.9 | 13145.2 | 13007.9 | 12823.1 | 12728.4 | 12652.6 |
| 12268.9 | 17.5° | 12714.2 | 13131.0 | 13467.4 | 13405.8 | 13202.1 | 12984.2 | 12761.5 | 12482.1 | 12287.8 | 12207.3 |
| 12567.3 | 20°   | 13050.5 | 13424.7 | 13604.7 | 13334.7 | 13026.8 | 12695.2 | 12316.3 | 11975.2 | 11795.2 | 11714.7 |
| 12946.3 | 22.5° | 13457.9 | 13817.9 | 13737.4 | 13211.6 | 12775.7 | 12245.2 | 11771.5 | 11520.4 | 11430.4 | 11373.6 |
| 13434.2 | 25°   | 13945.8 | 14253.7 | 13832.1 | 13031.5 | 12363.6 | 11648.3 | 11283.6 | 11203.1 | 11160.4 | 11117.8 |
| 14031.1 | 27.5° | 14580.6 | 14746.3 | 13903.2 | 12766.3 | 11719.4 | 11013.6 | 10880.9 | 10895.1 | 10880.9 | 10809.9 |
| 14860.0 | 30°   | 15419.0 | 15385.8 | 13969.5 | 12335.2 | 10980.4 | 10440.4 | 10449.9 | 10511.5 | 10520.9 | 10473.6 |
| 16015.9 | 32.5° | 16522.7 | 16186.4 | 14002.6 | 11776.2 | 10274.6 | 9938.3  | 9947.7  | 10014.1 | 10061.4 | 9980.9  |
| 17527.0 | 35°   | 17858.6 | 17119.6 | 13950.5 | 11075.2 | 9729.8  | 9459.8  | 9388.8  | 9407.7  | 9421.9  | 9346.1  |
| 19360.2 | 37.5° | 19417.0 | 18166.5 | 13718.4 | 10298.3 | 9279.8  | 8990.9  | 8839.3  | 8711.4  | 8635.6  | 8564.5  |
| 21435.0 | 40°   | 21127.1 | 19308.1 | 13292.1 | 9540.4  | 8777.7  | 8493.5  | 8266.1  | 8024.5  | 7768.7  | 7674.0  |
| 23633.0 | 42.5° | 22917.7 | 20482.9 | 12775.7 | 8815.6  | 8199.8  | 7967.7  | 7726.1  | 7375.5  | 6991.8  | 6797.6  |
| 25916.2 | 45°   | 24774.6 | 21686.1 | 12268.9 | 8100.3  | 7607.7  | 7508.2  | 7228.7  | 6807.1  | 6390.2  | 6143.9  |
| 28204.2 | 47.5° | 26593.6 | 22823.0 | 11525.2 | 7380.3  | 7053.4  | 7162.4  | 6944.5  | 6556.0  | 6091.8  | 5703.4  |
| 30473.3 | 50°   | 28332.1 | 23888.8 | 10307.8 | 6650.8  | 6603.4  | 7058.2  | 6849.7  | 6290.8  | 5760.2  | 5262.8  |
| 32699.7 | 52.5° | 30056.4 | 24750.9 | 8749.3  | 5987.6  | 6361.8  | 7029.7  | 6726.6  | 6110.8  | 5461.8  | 4940.7  |
| 34793.4 | 55°   | 31520.1 | 25196.2 | 7247.6  | 5419.2  | 6011.3  | 6788.2  | 6579.7  | 5897.6  | 5040.2  | 4486.0  |
| 36228.7 | 57.5° | 32353.9 | 24836.2 | 5997.1  | 4860.2  | 5528.1  | 6390.2  | 6328.7  | 5442.8  | 4538.1  | 4111.7  |
| 36508.2 | 60°   | 31993.8 | 23377.2 | 4973.9  | 4372.3  | 5068.6  | 5959.2  | 5892.9  | 4992.8  | 4154.4  | 3751.7  |
| 35011.3 | 62.5° | 30009.0 | 20596.6 | 4163.8  | 3945.9  | 4651.8  | 5518.6  | 5457.0  | 4647.0  | 3860.7  | 3472.2  |
| 31037.0 | 65°   | 26011.0 | 16754.8 | 3533.8  | 3590.7  | 4230.2  | 4988.1  | 5078.1  | 4358.1  | 3628.6  | 3249.6  |
| 24012.0 | 67.5° | 19838.6 | 12136.2 | 3041.2  | 3282.8  | 3818.0  | 4467.0  | 4727.5  | 4149.6  | 3434.3  | 3074.3  |
| 13893.7 | 70°   | 11307.3 | 6892.4  | 2624.3  | 2984.3  | 3453.3  | 3983.8  | 4457.5  | 3983.8  | 3225.9  | 2927.5  |
| 5206.0  | 72.5° | 4287.0  | 3164.3  | 2269.0  | 2685.9  | 3102.7  | 3576.5  | 4159.1  | 3723.3  | 2984.3  | 2761.7  |
| 2690.6  | 75°   | 2288.0  | 1928.0  | 1909.0  | 2335.4  | 2700.1  | 3178.5  | 3784.9  | 3467.5  | 2804.3  | 2918.0  |
| 1861.6  | 77.5° | 1558.5  | 1364.3  | 1596.4  | 1999.0  | 2259.6  | 2738.0  | 3387.0  | 3079.1  | 2430.1  | 2420.6  |
| 1288.5  | 80°   | 1080.0  | 966.4   | 1297.9  | 1610.6  | 1748.0  | 2302.2  | 2955.9  | 2643.3  | 1980.1  | 1847.4  |
| 795.8   | 82.5° | 649.0   | 630.0   | 971.1   | 1203.2  | 1236.4  | 1776.4  | 2449.0  | 2216.9  | 1620.1  | 1411.6  |
| 473.7   | 85°   | 355.3   | 374.2   | 620.5   | 705.8   | 720.0   | 1241.1  | 1918.5  | 1714.8  | 1245.8  | 1046.9  |
| 170.5   | 87.5° | 99.5    | 127.9   | 227.4   | 279.5   | 345.8   | 644.2   | 1141.6  | 1018.5  | 625.3   | 435.8   |
| 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°    |
|---------|
| 11676.8 |
| 12534.2 |
| 13078.9 |
| 13235.2 |
| 13150.0 |
| 12951.0 |
| 12676.3 |
| 12212.0 |
| 11705.2 |
| 11383.1 |
| 11117.8 |
| 10824.1 |
| 10497.2 |
| 10018.8 |
| 9398.3  |
| 8611.9  |
| 7716.6  |
| 6821.3  |
| 6125.0  |
| 5660.7  |
| 5220.2  |
| 4883.9  |
| 4438.6  |
| 4054.9  |
| 3694.9  |
| 3410.7  |
| 3188.0  |
| 3017.5  |
| 2889.6  |
| 2723.8  |
| 3012.7  |
| 2231.1  |
| 1766.9  |
| 1421.1  |
| 1056.4  |
| 435.8   |
| 0.0     |