

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: P851725

Luminaire Tested: **GLAN-SB9D-830-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P851725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9D-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58115 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

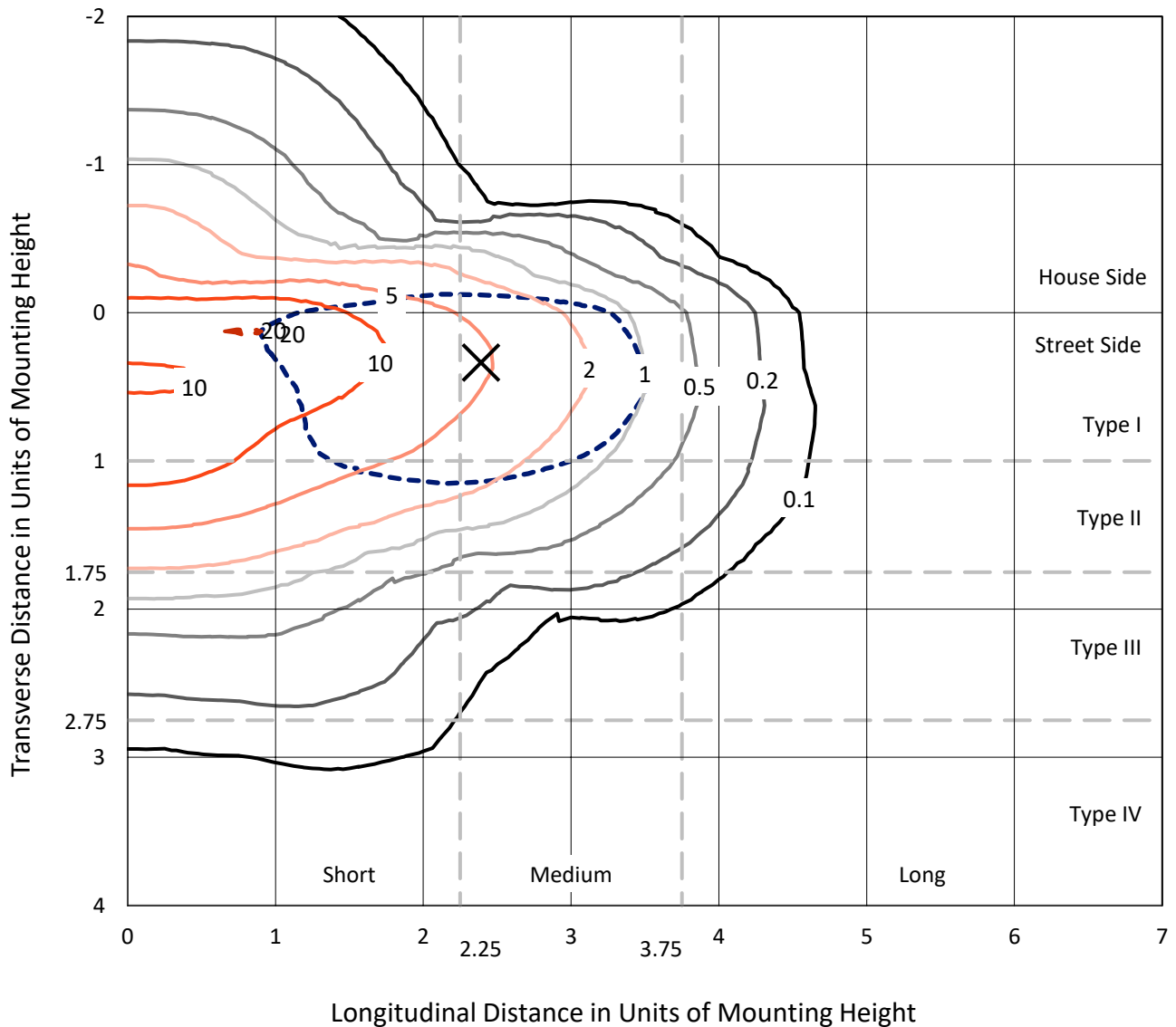
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

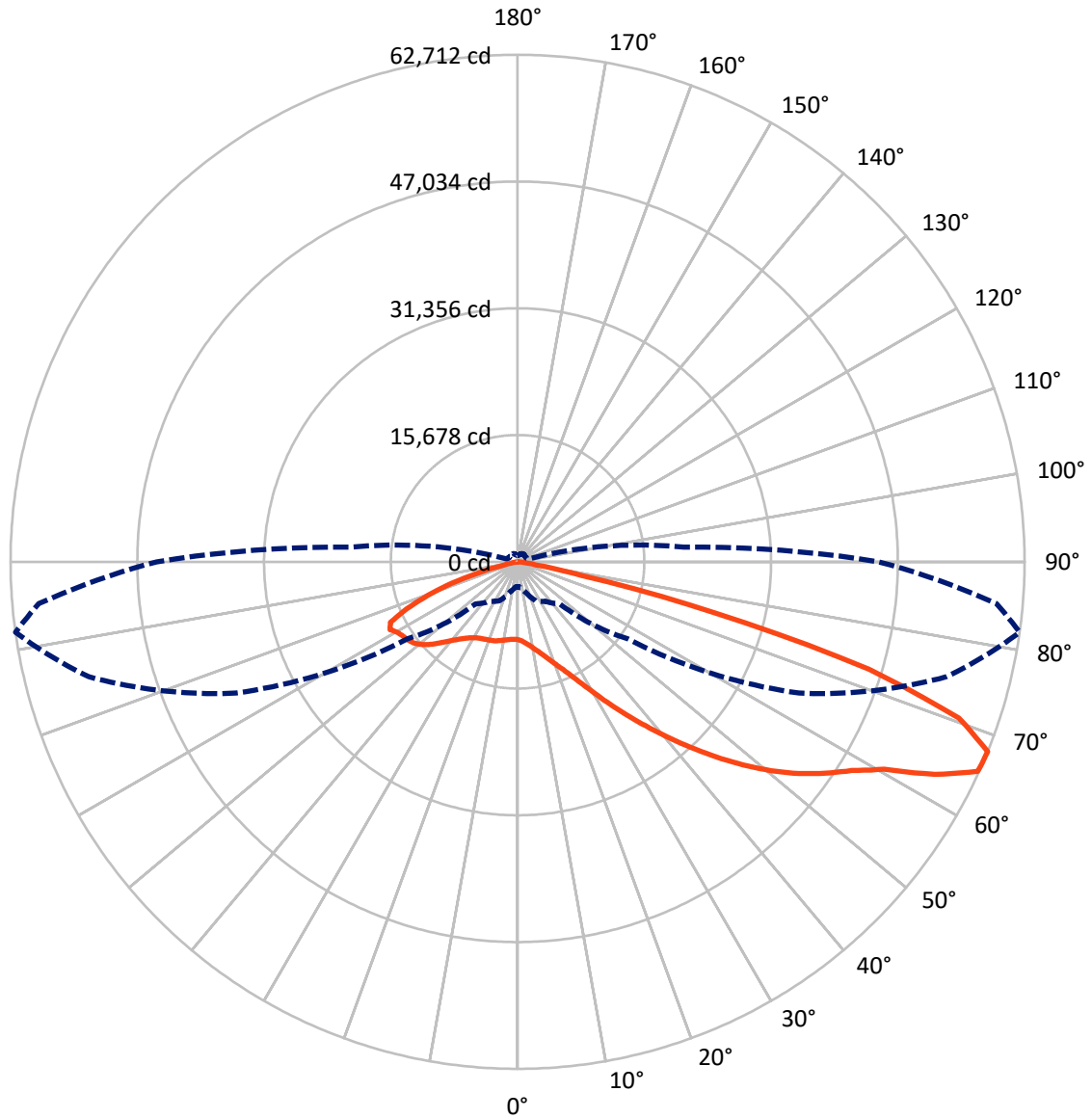
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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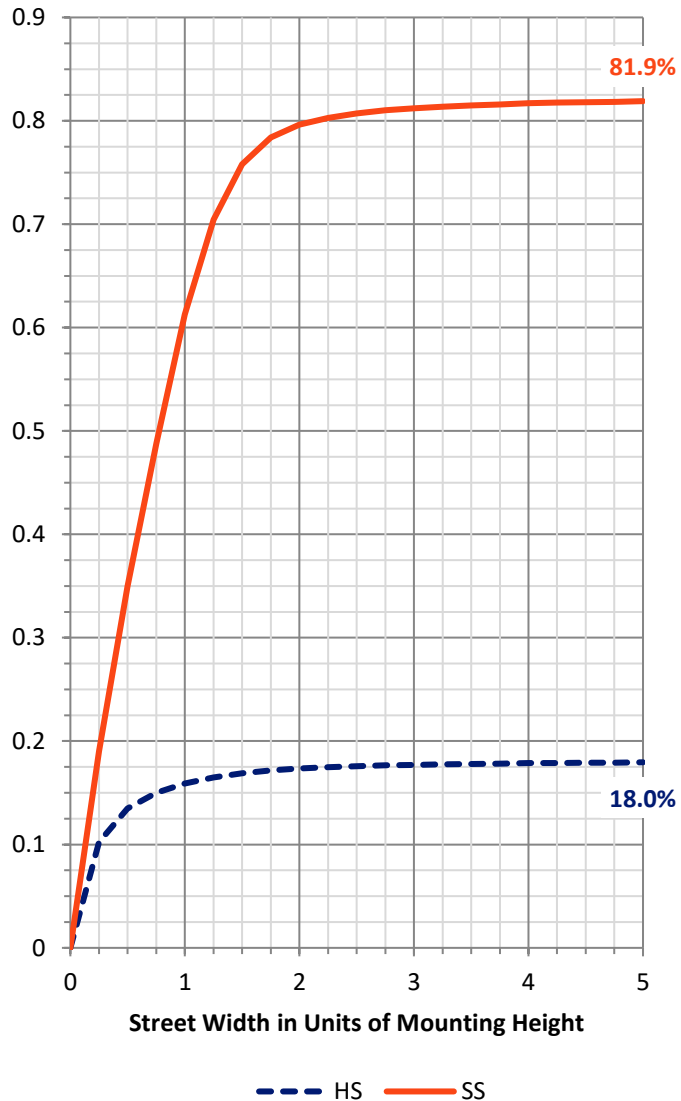
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10527.0  | 0.0    | 10527.0 |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 47588.0  | 0.0    | 47588.0 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 58115.0  | 0.0    | 58115.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 857.8   | 1.5       |
| 10°-20°   | 2229.0  | 3.8       |
| 20°-30°   | 3570.1  | 6.1       |
| 30°-40°   | 6313.0  | 10.9      |
| 40°-50°   | 11061.0 | 19.0      |
| 50°-60°   | 14752.3 | 25.4      |
| 60°-70°   | 13733.6 | 23.6      |
| 70°-80°   | 5271.0  | 9.1       |
| 80°-90°   | 327.4   | 0.6       |
| 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°    | 58115.0 | 100.0     |
| 0°-180°   | 58115.0 | 100.0     |

**Coefficient of Utilization**

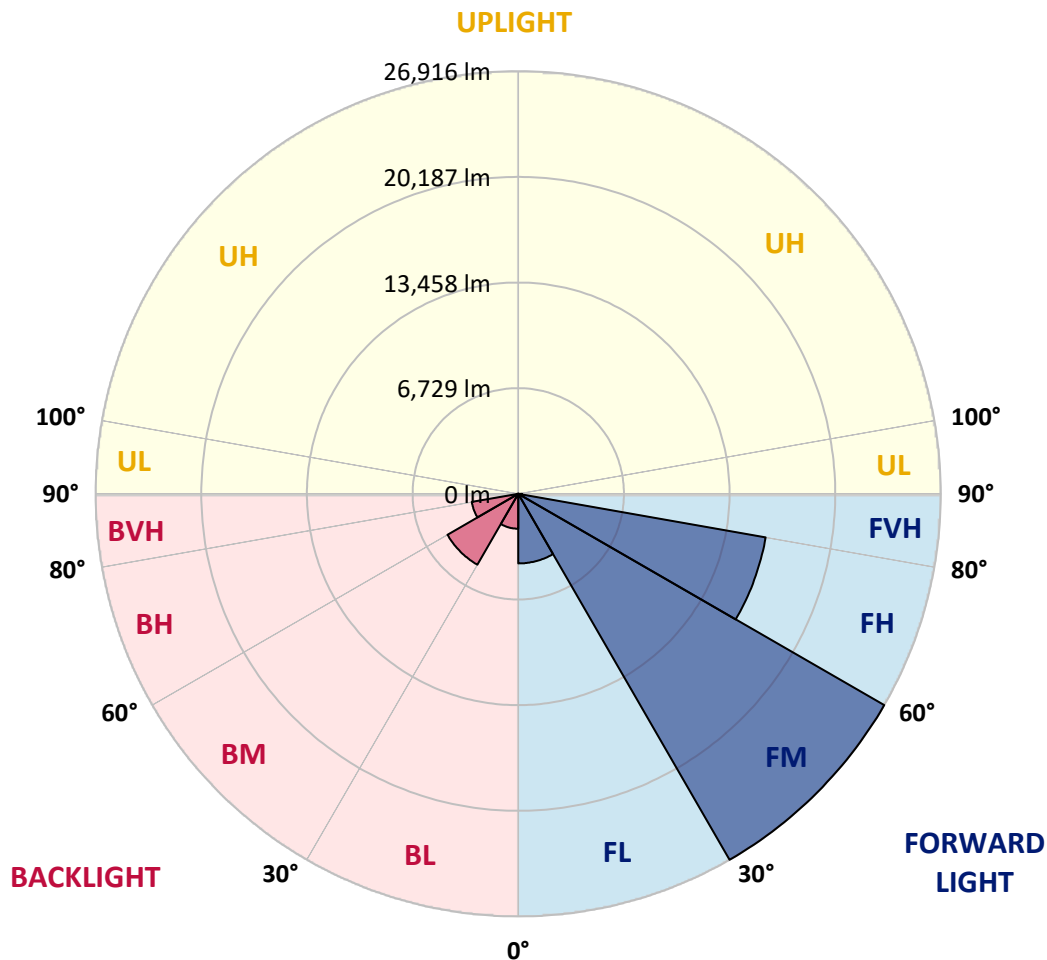


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4433.5  | 7.6       |                         |      |         |
| FM (30°-60°)   | 26916.5 | 46.3      |                         |      |         |
| FH (60°-80°)   | 15999.9 | 27.5      |                         |      | G5      |
| FVH (80°-90°)  | 238.0   | 0.4       |                         |      | G3/500  |
| BL (0°-30°)    | 2223.3  | 3.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 5209.8  | 9.0       | B4/8500                 |      |         |
| BH (60°-80°)   | 3004.6  | 5.2       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 89.4    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9627.7  | 9627.7  | 9627.7  | 9627.7  | 9627.7  | 9627.7  | 9627.7  | 9627.7  | 9627.7  | 9627.7  |
| 2.5°  | 10175.8 | 10234.4 | 10200.9 | 10184.2 | 10154.9 | 10113.0 | 10079.6 | 9975.0  | 9866.2  | 9795.1  |
| 5°    | 10380.8 | 10439.4 | 10435.2 | 10452.0 | 10472.9 | 10485.4 | 10477.1 | 10359.9 | 10205.1 | 10083.8 |
| 7.5°  | 10205.1 | 10272.0 | 10326.4 | 10410.1 | 10556.6 | 10711.4 | 10786.7 | 10761.6 | 10602.6 | 10435.2 |
| 10°   | 9707.2  | 9778.3  | 9908.0  | 10104.7 | 10414.3 | 10749.0 | 11029.4 | 11159.1 | 11058.7 | 10874.6 |
| 12.5° | 8795.0  | 8866.2  | 9121.4  | 9548.2  | 10067.0 | 10648.6 | 11184.2 | 11531.5 | 11556.6 | 11372.5 |
| 15°   | 7769.9  | 7841.1  | 8113.0  | 8648.6  | 9439.4  | 10372.5 | 11267.9 | 11924.8 | 12146.5 | 11987.5 |
| 17.5° | 7133.9  | 7196.7  | 7401.7  | 7832.7  | 8657.0  | 9820.2  | 11238.6 | 12343.2 | 12849.5 | 12723.9 |
| 20°   | 6941.5  | 6995.9  | 7092.1  | 7393.4  | 8079.6  | 9246.9  | 11046.1 | 12736.5 | 13606.8 | 13535.7 |
| 22.5° | 7146.5  | 7196.7  | 7226.0  | 7359.9  | 7790.9  | 8870.4  | 10803.4 | 13138.2 | 14485.5 | 14493.8 |
| 25°   | 7619.3  | 7669.5  | 7636.0  | 7719.7  | 7908.0  | 8753.2  | 10711.4 | 13611.0 | 15590.1 | 15682.1 |
| 27.5° | 8397.6  | 8401.7  | 8322.2  | 8318.1  | 8347.3  | 8928.9  | 10807.6 | 14117.3 | 16983.4 | 17154.9 |
| 30°   | 9958.2  | 9895.5  | 9590.0  | 9259.5  | 9108.9  | 9456.1  | 11075.4 | 14715.6 | 18627.8 | 18933.2 |
| 32.5° | 12364.1 | 12272.1 | 11711.4 | 10920.6 | 10125.6 | 10305.5 | 11556.6 | 15397.6 | 20418.6 | 20970.9 |
| 35°   | 14975.0 | 14949.9 | 14364.1 | 13188.4 | 11799.3 | 11514.7 | 12339.0 | 16293.0 | 22372.6 | 23251.2 |
| 37.5° | 17401.8 | 17389.3 | 17054.5 | 15669.6 | 13979.2 | 13200.9 | 13594.2 | 17464.6 | 24464.6 | 25736.6 |
| 40°   | 19619.4 | 19657.1 | 19322.3 | 18083.8 | 16380.9 | 15364.1 | 15301.4 | 18912.3 | 26791.0 | 28443.7 |
| 42.5° | 21535.7 | 21577.6 | 21238.7 | 20322.3 | 18753.3 | 17757.5 | 17397.6 | 20686.4 | 29063.0 | 31351.7 |
| 45°   | 22837.0 | 23096.4 | 23046.2 | 22314.0 | 21188.4 | 20155.0 | 19916.5 | 22912.3 | 31653.0 | 34435.4 |
| 47.5° | 23205.2 | 23443.7 | 23820.3 | 23920.7 | 23234.5 | 22217.7 | 22502.3 | 25594.3 | 34272.2 | 37523.3 |
| 50°   | 22297.2 | 22519.0 | 23301.4 | 24343.3 | 24820.3 | 24506.5 | 25016.9 | 28468.8 | 36954.3 | 40602.8 |
| 52.5° | 20506.4 | 20732.4 | 21719.8 | 23368.4 | 25314.0 | 26301.5 | 27540.0 | 31301.5 | 39552.6 | 43519.2 |
| 55°   | 17916.5 | 18155.0 | 19422.7 | 21288.9 | 24372.6 | 27042.0 | 29644.6 | 34130.0 | 41933.4 | 46142.6 |
| 57.5° | 14393.4 | 14569.1 | 15887.2 | 18498.0 | 22004.4 | 26305.6 | 31196.9 | 37217.9 | 44176.1 | 48720.0 |
| 60°   | 9380.8  | 9535.6  | 11067.0 | 13979.2 | 18079.6 | 23845.4 | 31506.5 | 40661.4 | 47155.2 | 52071.5 |
| 62.5° | 6238.5  | 6343.1  | 7251.1  | 9389.2  | 12732.3 | 19121.5 | 29694.8 | 43410.4 | 51523.4 | 57904.2 |
| 65°   | 4280.4  | 4385.0  | 5292.9  | 6782.5  | 8226.0  | 12648.6 | 24485.5 | 43046.4 | 55481.6 | 62536.0 |
| 67.5° | 3054.4  | 3142.3  | 3912.2  | 5318.0  | 5954.0  | 7347.3  | 16598.5 | 38393.6 | 54912.6 | 62711.8 |
| 70°   | 2188.3  | 2238.5  | 2874.5  | 4142.3  | 4732.3  | 4414.3  | 9230.2  | 29364.2 | 48079.9 | 57908.4 |
| 72.5° | 1531.4  | 1548.1  | 1995.8  | 3154.8  | 3811.7  | 3221.8  | 4393.3  | 19577.6 | 36364.3 | 45452.2 |
| 75°   | 1037.7  | 1058.6  | 1343.1  | 2313.8  | 3058.6  | 2460.3  | 2326.4  | 10498.0 | 21347.4 | 25159.2 |
| 77.5° | 636.0   | 644.4   | 866.1   | 1581.6  | 2288.7  | 1874.5  | 1497.9  | 4447.7  | 8259.5  | 8108.8  |
| 80°   | 359.8   | 359.8   | 552.3   | 983.3   | 1560.7  | 1209.2  | 1050.2  | 1891.2  | 2615.1  | 2297.1  |
| 82.5° | 200.8   | 205.0   | 401.7   | 610.9   | 1033.5  | 715.5   | 577.4   | 874.5   | 1129.7  | 1000.0  |
| 85°   | 83.7    | 92.1    | 246.9   | 288.7   | 493.7   | 355.7   | 234.3   | 368.2   | 418.4   | 372.4   |
| 87.5° | 8.4     | 12.6    | 75.3    | 54.4    | 58.6    | 71.1    | 33.5    | 71.1    | 58.6    | 58.6    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9627.7  | 0°    | 9627.7  | 9627.7  | 9627.7 | 9627.7 | 9627.7 | 9627.7 | 9627.7 | 9627.7 | 9627.7 | 9627.7 |
| 9769.9  | 2.5°  | 9690.5  | 9627.7  | 9468.7 | 9284.6 | 9041.9 | 8924.8 | 8765.8 | 8657.0 | 8564.9 | 8573.3 |
| 10012.6 | 5°    | 9878.7  | 9719.7  | 9364.1 | 8920.6 | 8368.3 | 7975.0 | 7556.5 | 7267.8 | 7033.5 | 6983.3 |
| 10347.4 | 7.5°  | 10138.2 | 9887.1  | 9263.7 | 8464.5 | 7531.4 | 6824.3 | 6192.5 | 5786.7 | 5498.0 | 5405.9 |
| 10753.2 | 10°   | 10472.9 | 10108.9 | 9134.0 | 7891.3 | 6548.2 | 5648.6 | 4970.7 | 4652.8 | 4456.1 | 4389.2 |
| 11230.2 | 12.5° | 10862.0 | 10364.1 | 8962.4 | 7192.5 | 5535.6 | 4669.5 | 4238.5 | 4079.5 | 4016.8 | 3995.8 |
| 11816.0 | 15°   | 11351.6 | 10682.1 | 8703.0 | 6364.1 | 4677.9 | 4071.2 | 3887.1 | 3866.1 | 3874.5 | 3866.1 |
| 12518.9 | 17.5° | 11933.1 | 11029.4 | 8280.4 | 5510.5 | 4100.4 | 3765.7 | 3698.8 | 3715.5 | 3736.4 | 3732.2 |
| 13305.5 | 20°   | 12569.1 | 11372.5 | 7740.6 | 4753.2 | 3707.1 | 3548.1 | 3510.5 | 3527.2 | 3544.0 | 3535.6 |
| 14213.5 | 22.5° | 13293.0 | 11740.7 | 7142.3 | 4163.2 | 3443.5 | 3347.3 | 3305.5 | 3309.6 | 3309.6 | 3292.9 |
| 15364.1 | 25°   | 14159.1 | 12146.5 | 6514.7 | 3744.8 | 3242.7 | 3167.4 | 3117.2 | 3100.4 | 3075.3 | 3025.1 |
| 16761.6 | 27.5° | 15192.6 | 12577.5 | 5912.2 | 3451.9 | 3083.7 | 3012.6 | 2954.0 | 2912.2 | 2849.4 | 2765.7 |
| 18439.5 | 30°   | 16355.8 | 13100.5 | 5401.7 | 3267.8 | 2958.2 | 2887.1 | 2820.1 | 2757.3 | 2665.3 | 2560.7 |
| 20368.4 | 32.5° | 17724.0 | 13661.2 | 5029.3 | 3146.5 | 2845.2 | 2769.9 | 2690.4 | 2615.1 | 2514.7 | 2410.1 |
| 22535.7 | 35°   | 19355.8 | 14339.0 | 4811.8 | 3062.8 | 2757.3 | 2656.9 | 2569.1 | 2485.4 | 2410.1 | 2318.0 |
| 24891.4 | 37.5° | 21125.7 | 15058.7 | 4744.8 | 3020.9 | 2698.8 | 2544.0 | 2443.5 | 2385.0 | 2376.6 | 2322.2 |
| 27439.5 | 40°   | 23062.9 | 15912.3 | 4795.0 | 2995.8 | 2636.0 | 2435.2 | 2326.4 | 2313.8 | 2334.7 | 2238.5 |
| 30163.4 | 42.5° | 25113.2 | 16924.8 | 4878.7 | 2966.5 | 2548.1 | 2326.4 | 2221.8 | 2221.8 | 2205.0 | 2071.1 |
| 33042.1 | 45°   | 27330.8 | 18092.2 | 4962.4 | 2895.4 | 2443.5 | 2217.6 | 2138.1 | 2108.8 | 2037.7 | 1908.0 |
| 35937.5 | 47.5° | 29565.1 | 19280.5 | 5025.1 | 2765.7 | 2318.0 | 2125.5 | 2054.4 | 1987.5 | 1882.9 | 1765.7 |
| 38778.5 | 50°   | 31686.4 | 20347.4 | 4958.2 | 2573.2 | 2175.7 | 2037.7 | 1962.4 | 1870.3 | 1757.3 | 1677.8 |
| 41468.9 | 52.5° | 33581.8 | 21272.1 | 4673.7 | 2347.3 | 2025.1 | 1945.6 | 1878.7 | 1782.4 | 1690.4 | 1606.7 |
| 43895.7 | 55°   | 35230.4 | 22021.1 | 4171.6 | 2133.9 | 1891.2 | 1866.1 | 1799.2 | 1677.8 | 1552.3 | 1481.2 |
| 46301.6 | 57.5° | 36812.0 | 22590.1 | 3544.0 | 1958.2 | 1769.9 | 1778.3 | 1677.8 | 1569.0 | 1451.9 | 1376.6 |
| 49544.3 | 60°   | 38916.6 | 23351.6 | 2908.0 | 1795.0 | 1640.2 | 1665.3 | 1556.5 | 1477.0 | 1330.6 | 1234.3 |
| 55105.0 | 62.5° | 42280.7 | 24535.8 | 2309.6 | 1594.2 | 1489.6 | 1497.9 | 1451.9 | 1355.7 | 1179.9 | 1067.0 |
| 59226.4 | 65°   | 44950.1 | 24100.6 | 1820.1 | 1376.6 | 1318.0 | 1330.6 | 1330.6 | 1226.0 | 1037.7 | 908.0  |
| 59448.2 | 67.5° | 44648.9 | 20636.1 | 1451.9 | 1163.2 | 1154.8 | 1163.2 | 1192.5 | 1104.6 | 920.5  | 815.9  |
| 54920.9 | 70°   | 41130.0 | 16414.4 | 1163.2 | 966.5  | 1004.2 | 983.3  | 1067.0 | 1008.4 | 828.5  | 723.9  |
| 42577.7 | 72.5° | 33560.9 | 11824.4 | 887.0  | 799.2  | 769.9  | 803.4  | 962.4  | 908.0  | 690.4  | 573.2  |
| 22552.5 | 75°   | 19611.0 | 6309.7  | 661.1  | 631.8  | 556.5  | 669.5  | 853.6  | 774.1  | 527.2  | 422.6  |
| 6912.2  | 77.5° | 6385.0  | 2200.9  | 485.4  | 464.4  | 414.2  | 539.8  | 728.0  | 652.7  | 431.0  | 334.7  |
| 2025.1  | 80°   | 1711.3  | 665.3   | 330.5  | 305.4  | 267.8  | 401.7  | 577.4  | 518.8  | 309.6  | 217.6  |
| 870.3   | 82.5° | 686.2   | 280.3   | 192.5  | 171.5  | 146.4  | 276.2  | 456.1  | 418.4  | 230.1  | 138.1  |
| 272.0   | 85°   | 221.8   | 92.1    | 71.1   | 54.4   | 66.9   | 171.5  | 272.0  | 284.5  | 163.2  | 71.1   |
| 41.8    | 87.5° | 29.3    | 12.6    | 12.6   | 16.7   | 12.6   | 29.3   | 83.7   | 79.5   | 46.0   | 8.4    |
| 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°   |
|--------|
| 9627.7 |
| 8489.6 |
| 6870.3 |
| 5313.8 |
| 4338.9 |
| 3983.3 |
| 3862.0 |
| 3723.9 |
| 3531.4 |
| 3284.5 |
| 3016.8 |
| 2757.3 |
| 2552.3 |
| 2414.2 |
| 2309.6 |
| 2318.0 |
| 2242.7 |
| 2071.1 |
| 1903.8 |
| 1761.5 |
| 1665.3 |
| 1598.3 |
| 1472.8 |
| 1368.2 |
| 1221.8 |
| 1058.6 |
| 895.4  |
| 799.2  |
| 711.3  |
| 560.7  |
| 410.0  |
| 322.2  |
| 213.4  |
| 138.1  |
| 54.4   |
| 0.0    |
| 0.0    |

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