

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: P851606

Luminaire Tested: **GLAN-SB9C-930-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P851606  
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-SB9C-930-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45599 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

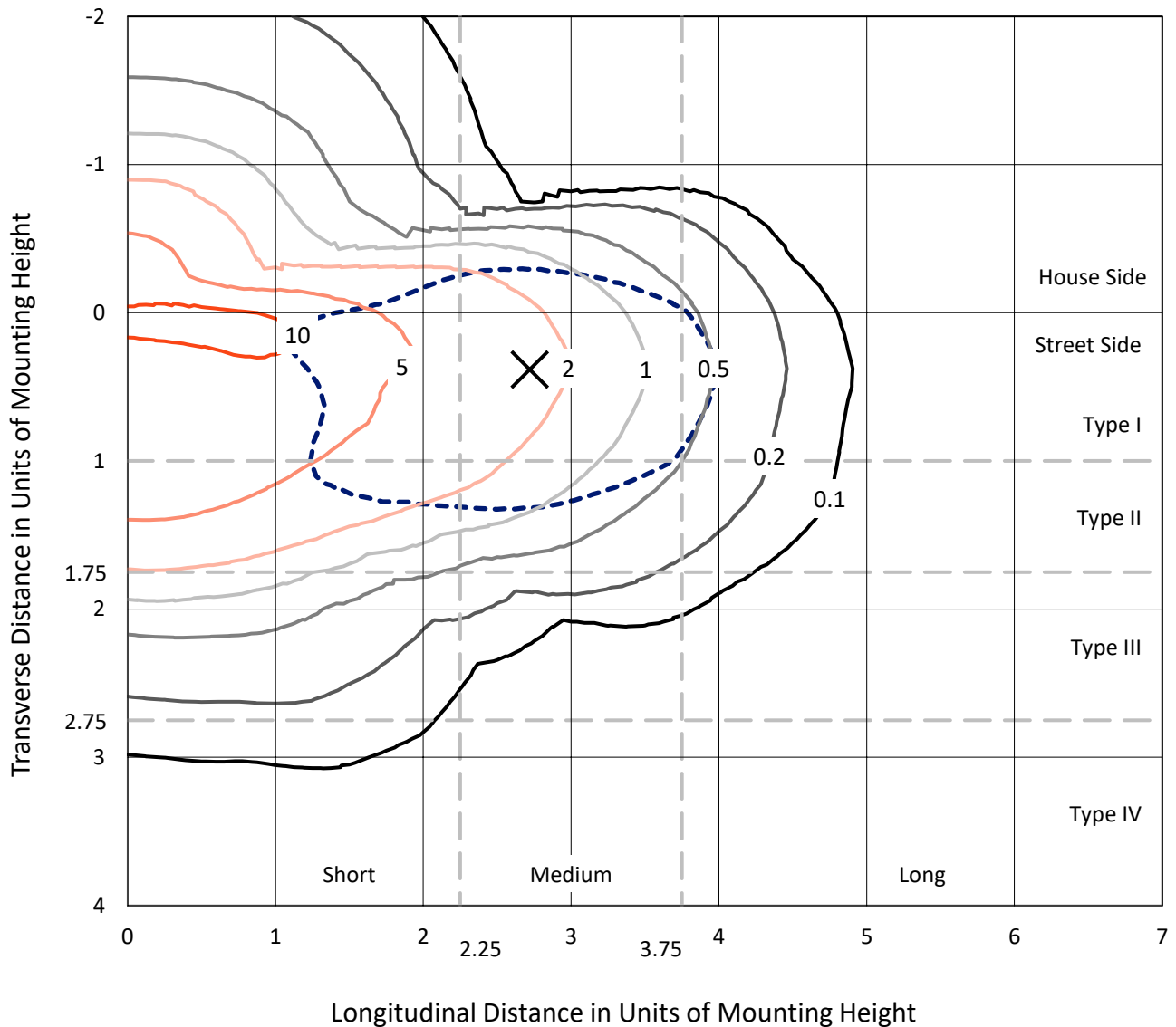
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

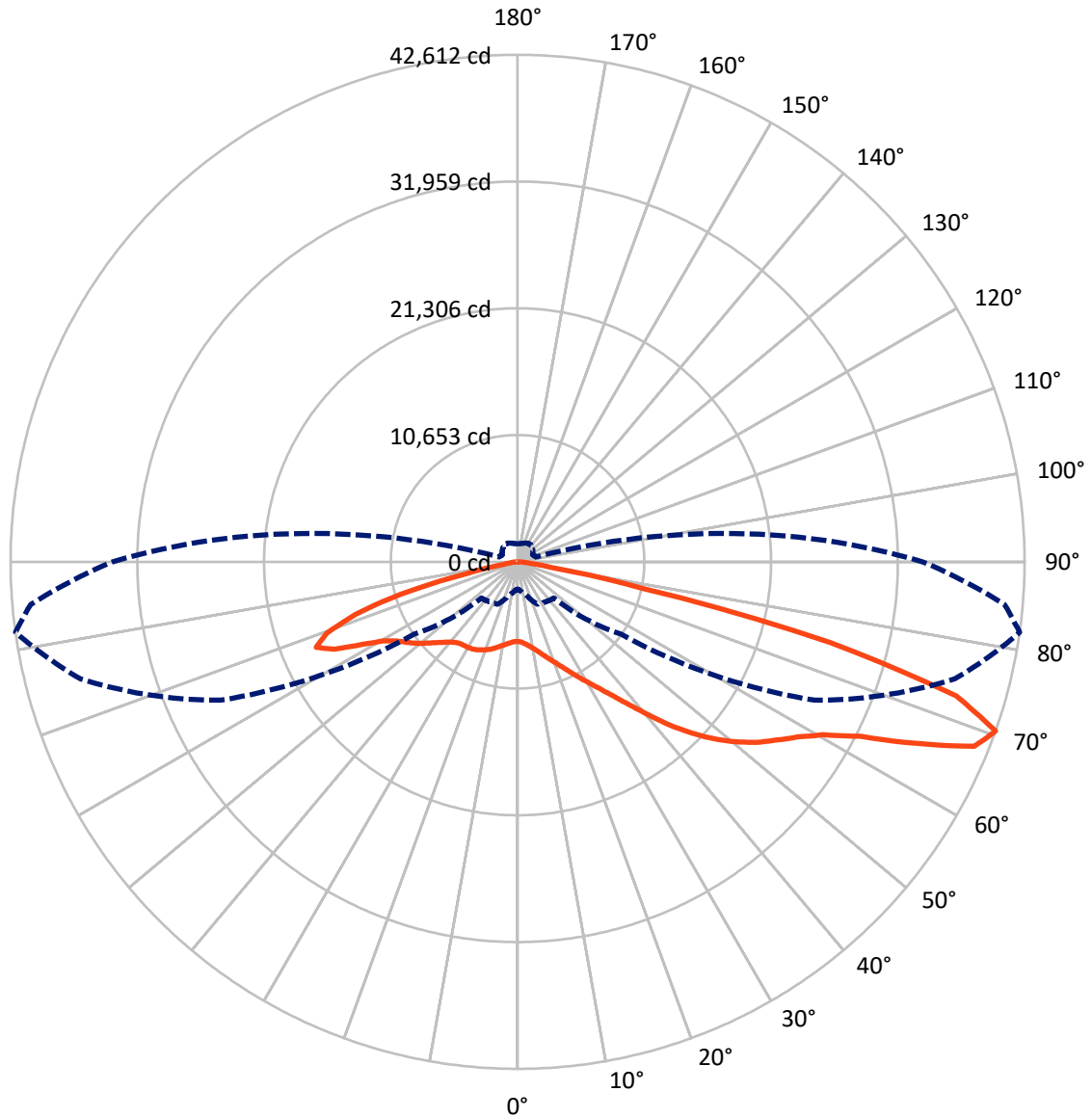
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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    | 11241.3  | 0.0    | 11241.3 |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 34357.7  | 0.0    | 34357.7 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 45599.0  | 0.0    | 45599.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 631.2   | 1.4       |
| 10°-20°   | 1813.5  | 4.0       |
| 20°-30°   | 3033.8  | 6.7       |
| 30°-40°   | 4739.7  | 10.4      |
| 40°-50°   | 7548.5  | 16.6      |
| 50°-60°   | 10504.6 | 23.0      |
| 60°-70°   | 10988.3 | 24.1      |
| 70°-80°   | 5743.1  | 12.6      |
| 80°-90°   | 596.4   | 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°    | 45599.0 | 100.0     |
| 0°-180°   | 45599.0 | 100.0     |

**Coefficient of Utilization**

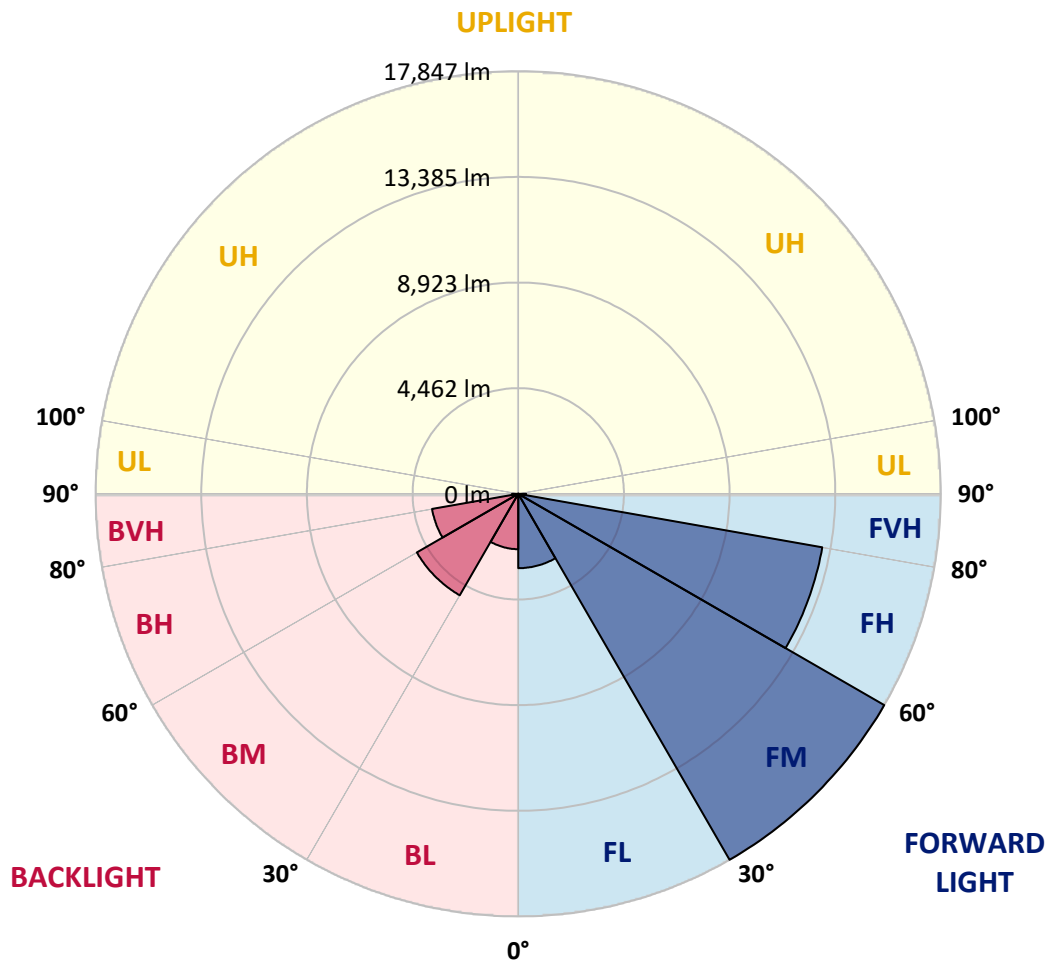


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3140.0  | 6.9       |                         |      |         |
| FM (30°-60°)   | 17847.0 | 39.1      |                         |      |         |
| FH (60°-80°)   | 13036.9 | 28.6      |                         |      | G5      |
| FVH (80°-90°)  | 333.8   | 0.7       |                         |      | G3/500  |
| BL (0°-30°)    | 2338.6  | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 4945.7  | 10.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 3694.4  | 8.1       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 262.5   | 0.6       |                         |      | G3/500  |
| 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°    | 6685.4  | 6685.4  | 6685.4  | 6685.4  | 6685.4  | 6685.4  | 6685.4  | 6685.4  | 6685.4  | 6685.4  |
| 2.5°  | 6845.1  | 6883.8  | 6871.7  | 6859.6  | 6859.6  | 6842.7  | 6840.2  | 6816.0  | 6796.7  | 6765.2  |
| 5°    | 6932.2  | 6973.3  | 6968.5  | 6978.2  | 7009.6  | 7016.9  | 7024.1  | 7009.6  | 6970.9  | 6932.2  |
| 7.5°  | 6854.8  | 6900.7  | 6915.2  | 6973.3  | 7070.1  | 7157.2  | 7222.5  | 7249.2  | 7212.9  | 7157.2  |
| 10°   | 6593.4  | 6644.3  | 6695.1  | 6833.0  | 7004.8  | 7210.4  | 7384.7  | 7488.7  | 7481.4  | 7428.2  |
| 12.5° | 6063.5  | 6116.8  | 6225.7  | 6494.2  | 6808.8  | 7171.7  | 7496.0  | 7713.7  | 7788.7  | 7750.0  |
| 15°   | 5640.1  | 5686.1  | 5768.4  | 6044.2  | 6453.1  | 7004.8  | 7537.1  | 7960.5  | 8151.7  | 8129.9  |
| 17.5° | 5628.0  | 5647.4  | 5698.2  | 5828.8  | 6143.4  | 6743.5  | 7493.5  | 8202.5  | 8567.8  | 8565.4  |
| 20°   | 5840.9  | 5848.2  | 5877.2  | 5903.8  | 6082.9  | 6545.0  | 7382.2  | 8403.3  | 9034.8  | 9034.8  |
| 22.5° | 6136.1  | 6131.3  | 6160.3  | 6136.1  | 6223.2  | 6528.1  | 7312.1  | 8579.9  | 9555.0  | 9593.8  |
| 25°   | 6578.9  | 6554.7  | 6547.5  | 6491.8  | 6508.8  | 6685.4  | 7389.5  | 8780.8  | 10172.0 | 10251.9 |
| 27.5° | 7169.3  | 7130.6  | 7104.0  | 6975.7  | 6932.2  | 7009.6  | 7626.6  | 9022.7  | 10859.2 | 10997.1 |
| 30°   | 7938.7  | 7868.6  | 7829.9  | 7607.3  | 7450.0  | 7462.1  | 7984.7  | 9344.5  | 11577.8 | 11800.4 |
| 32.5° | 8988.9  | 8880.0  | 8775.9  | 8410.6  | 8122.6  | 8028.3  | 8446.9  | 9789.7  | 12357.0 | 12712.6 |
| 35°   | 10164.8 | 10077.7 | 9966.4  | 9402.6  | 8959.8  | 8742.1  | 9071.1  | 10411.6 | 13269.1 | 13832.9 |
| 37.5° | 11297.2 | 11222.2 | 11275.4 | 10515.6 | 9944.6  | 9627.6  | 9888.9  | 11246.3 | 14394.3 | 15226.6 |
| 40°   | 12468.3 | 12410.2 | 12417.4 | 11691.6 | 11026.2 | 10670.5 | 10881.0 | 12294.0 | 15683.9 | 16884.0 |
| 42.5° | 13741.0 | 13697.4 | 13552.2 | 12908.6 | 12161.0 | 11829.5 | 12023.0 | 13503.8 | 17067.9 | 18771.3 |
| 45°   | 15166.1 | 15139.5 | 15004.0 | 14266.0 | 13409.5 | 13036.9 | 13298.2 | 14839.5 | 18459.2 | 20547.3 |
| 47.5° | 16397.7 | 16419.5 | 16402.5 | 15780.7 | 14892.7 | 14345.9 | 14658.0 | 16233.2 | 19753.7 | 22216.9 |
| 50°   | 16990.5 | 17104.2 | 17271.2 | 17077.6 | 16525.9 | 15969.4 | 16029.9 | 17578.5 | 20987.7 | 23782.4 |
| 52.5° | 16680.8 | 16896.1 | 17351.0 | 17660.7 | 17873.7 | 17757.5 | 17595.4 | 18914.1 | 22149.1 | 25195.4 |
| 55°   | 15526.6 | 15829.1 | 16584.0 | 17331.7 | 18418.1 | 19262.5 | 19475.4 | 20394.9 | 23281.5 | 26439.1 |
| 57.5° | 13424.0 | 13915.2 | 14592.7 | 16104.9 | 17934.2 | 19990.8 | 21667.6 | 22449.1 | 24481.6 | 27767.4 |
| 60°   | 9818.8  | 10476.9 | 11318.9 | 13569.2 | 16240.4 | 19601.3 | 23533.1 | 25604.3 | 26187.4 | 29487.8 |
| 62.5° | 6283.7  | 6690.2  | 7464.5  | 9584.1  | 12654.6 | 17605.1 | 24104.2 | 29548.3 | 29078.9 | 32309.1 |
| 65°   | 4302.1  | 4563.4  | 5272.3  | 6462.8  | 8180.7  | 13104.6 | 22575.0 | 32505.0 | 33671.3 | 36780.5 |
| 67.5° | 3126.1  | 3324.5  | 3929.4  | 4972.3  | 5330.4  | 7754.9  | 17518.0 | 32369.5 | 38135.5 | 41387.4 |
| 70°   | 2279.3  | 2419.6  | 2927.7  | 3929.4  | 4101.2  | 4314.2  | 10612.4 | 27515.8 | 38038.7 | 42611.8 |
| 72.5° | 1688.9  | 1785.7  | 2126.8  | 3048.7  | 3319.7  | 2913.2  | 5253.0  | 19998.1 | 32686.5 | 38542.0 |
| 75°   | 1221.9  | 1294.5  | 1546.1  | 2332.5  | 2656.7  | 2218.8  | 2620.4  | 11686.7 | 22800.0 | 27111.7 |
| 77.5° | 934.0   | 989.6   | 1154.2  | 1708.2  | 2126.8  | 1664.7  | 1626.0  | 5376.4  | 10810.8 | 10864.1 |
| 80°   | 750.1   | 786.4   | 875.9   | 1202.5  | 1630.8  | 1246.1  | 1059.8  | 2170.4  | 3416.5  | 2891.4  |
| 82.5° | 551.7   | 612.2   | 740.4   | 844.4   | 1166.3  | 859.0   | 646.0   | 1096.1  | 1299.3  | 1117.9  |
| 85°   | 314.5   | 355.7   | 447.6   | 604.9   | 745.2   | 525.1   | 370.2   | 486.3   | 604.9   | 496.0   |
| 87.5° | 111.3   | 145.2   | 157.3   | 237.1   | 324.2   | 217.8   | 142.8   | 140.3   | 198.4   | 147.6   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6685.4  | 0°    | 6685.4  | 6685.4  | 6685.4 | 6685.4 | 6685.4 | 6685.4 | 6685.4 | 6685.4 | 6685.4 | 6685.4 |
| 6758.0  | 2.5°  | 6733.8  | 6721.7  | 6673.3 | 6608.0 | 6540.2 | 6474.9 | 6453.1 | 6407.1 | 6375.7 | 6358.7 |
| 6915.2  | 5°    | 6869.3  | 6830.6  | 6716.8 | 6571.7 | 6419.2 | 6254.7 | 6138.6 | 6032.1 | 5954.7 | 5882.1 |
| 7130.6  | 7.5°  | 7062.8  | 6995.1  | 6799.1 | 6545.0 | 6274.0 | 6000.6 | 5797.4 | 5642.5 | 5538.5 | 5470.7 |
| 7382.2  | 10°   | 7287.9  | 7183.8  | 6883.8 | 6503.9 | 6085.3 | 5693.3 | 5453.8 | 5320.7 | 5255.4 | 5219.1 |
| 7670.2  | 12.5° | 7546.8  | 7399.2  | 6970.9 | 6409.5 | 5797.4 | 5349.8 | 5185.2 | 5146.5 | 5148.9 | 5151.4 |
| 8033.1  | 15°   | 7866.2  | 7660.5  | 7041.1 | 6203.9 | 5422.3 | 5086.0 | 5057.0 | 5119.9 | 5185.2 | 5216.7 |
| 8444.4  | 17.5° | 8226.7  | 7936.3  | 7053.2 | 5865.1 | 5054.6 | 4916.6 | 5008.6 | 5144.1 | 5243.3 | 5286.8 |
| 8904.2  | 20°   | 8613.8  | 8217.0  | 6966.1 | 5386.1 | 4752.1 | 4778.7 | 4943.3 | 5117.5 | 5226.4 | 5282.0 |
| 9429.2  | 22.5° | 9056.6  | 8517.0  | 6758.0 | 4882.8 | 4505.3 | 4628.7 | 4822.3 | 4991.7 | 5105.4 | 5161.0 |
| 10046.2 | 25°   | 9562.3  | 8853.4  | 6431.3 | 4459.3 | 4292.4 | 4459.3 | 4652.9 | 4793.2 | 4885.2 | 4936.0 |
| 10735.8 | 27.5° | 10123.7 | 9204.2  | 5995.8 | 4123.0 | 4106.1 | 4285.1 | 4444.8 | 4553.7 | 4602.1 | 4640.8 |
| 11469.0 | 30°   | 10687.4 | 9523.6  | 5468.3 | 3869.0 | 3944.0 | 4113.3 | 4227.1 | 4275.5 | 4290.0 | 4297.2 |
| 12286.8 | 32.5° | 11297.2 | 9799.4  | 4914.2 | 3658.5 | 3789.1 | 3946.4 | 4014.1 | 4035.9 | 3968.2 | 3922.2 |
| 13278.8 | 35°   | 12035.1 | 10094.6 | 4372.2 | 3491.5 | 3636.7 | 3772.2 | 3793.9 | 3774.6 | 3694.7 | 3600.4 |
| 14522.5 | 37.5° | 12947.3 | 10462.4 | 3939.1 | 3372.9 | 3493.9 | 3583.4 | 3556.8 | 3552.0 | 3559.2 | 3447.9 |
| 16017.8 | 40°   | 14065.2 | 10941.5 | 3622.2 | 3281.0 | 3377.8 | 3397.1 | 3322.1 | 3363.3 | 3399.6 | 3230.2 |
| 17658.3 | 42.5° | 15306.5 | 11519.8 | 3421.3 | 3218.1 | 3281.0 | 3235.0 | 3118.9 | 3164.9 | 3160.0 | 2937.4 |
| 19306.1 | 45°   | 16571.9 | 12148.9 | 3351.2 | 3172.1 | 3191.5 | 3099.5 | 2971.3 | 2983.4 | 2881.8 | 2680.9 |
| 20886.1 | 47.5° | 17830.1 | 12823.9 | 3394.7 | 3133.4 | 3080.2 | 2976.1 | 2876.9 | 2823.7 | 2673.7 | 2523.7 |
| 22400.8 | 50°   | 19064.1 | 13532.9 | 3554.4 | 3056.0 | 2927.7 | 2867.2 | 2794.7 | 2700.3 | 2540.6 | 2412.4 |
| 23833.2 | 52.5° | 20208.6 | 14246.7 | 3733.5 | 2927.7 | 2736.6 | 2772.9 | 2726.9 | 2618.0 | 2460.7 | 2330.1 |
| 25188.1 | 55°   | 21292.6 | 14960.5 | 3803.6 | 2751.1 | 2557.5 | 2690.6 | 2664.0 | 2463.2 | 2274.4 | 2168.0 |
| 26606.0 | 57.5° | 22473.3 | 15819.4 | 3726.2 | 2526.1 | 2412.4 | 2596.2 | 2494.6 | 2272.0 | 2163.1 | 2083.3 |
| 28452.2 | 60°   | 24109.0 | 17167.1 | 3559.2 | 2247.8 | 2274.4 | 2455.9 | 2281.7 | 2189.7 | 2071.2 | 1981.7 |
| 31220.2 | 62.5° | 26826.2 | 19681.1 | 3290.7 | 1972.0 | 2112.3 | 2247.8 | 2180.1 | 2088.1 | 1967.1 | 1880.0 |
| 35953.0 | 65°   | 30842.8 | 23175.0 | 2785.0 | 1756.6 | 1930.8 | 2044.6 | 2071.2 | 1979.2 | 1853.4 | 1761.5 |
| 40100.2 | 67.5° | 34230.2 | 25367.2 | 2107.5 | 1577.6 | 1744.5 | 1880.0 | 1955.0 | 1865.5 | 1732.4 | 1642.9 |
| 41070.5 | 70°   | 34043.9 | 23775.1 | 1609.0 | 1401.0 | 1580.0 | 1717.9 | 1814.7 | 1744.5 | 1601.8 | 1517.1 |
| 37305.6 | 72.5° | 30237.9 | 19889.2 | 1301.8 | 1221.9 | 1413.1 | 1548.6 | 1664.7 | 1611.5 | 1466.3 | 1384.0 |
| 27329.5 | 75°   | 22214.4 | 14118.4 | 1040.4 | 1040.4 | 1205.0 | 1371.9 | 1500.2 | 1466.3 | 1333.2 | 1275.1 |
| 11473.8 | 77.5° | 9363.9  | 5923.2  | 815.4  | 863.8  | 1001.7 | 1178.4 | 1338.0 | 1350.1 | 1234.0 | 1306.6 |
| 3034.2  | 80°   | 2489.8  | 1633.2  | 621.8  | 679.9  | 786.4  | 972.7  | 1163.8 | 1159.0 | 1033.2 | 965.4  |
| 1127.5  | 82.5° | 948.5   | 643.6   | 442.8  | 479.1  | 568.6  | 745.2  | 921.9  | 950.9  | 825.1  | 713.8  |
| 442.8   | 85°   | 365.4   | 275.8   | 273.4  | 287.9  | 331.5  | 493.6  | 696.8  | 721.0  | 621.8  | 527.5  |
| 123.4   | 87.5° | 94.4    | 82.3    | 101.6  | 96.8   | 152.4  | 263.7  | 399.2  | 413.8  | 379.9  | 220.2  |
| 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°   |
|--------|
| 6685.4 |
| 6378.1 |
| 5911.1 |
| 5485.3 |
| 5228.8 |
| 5156.2 |
| 5214.3 |
| 5296.5 |
| 5296.5 |
| 5175.5 |
| 4950.5 |
| 4655.3 |
| 4314.2 |
| 3936.7 |
| 3605.2 |
| 3455.2 |
| 3235.0 |
| 2935.0 |
| 2688.2 |
| 2523.7 |
| 2402.7 |
| 2332.5 |
| 2158.3 |
| 2076.0 |
| 1976.8 |
| 1880.0 |
| 1766.3 |
| 1645.3 |
| 1524.4 |
| 1384.0 |
| 1258.2 |
| 1185.6 |
| 897.7  |
| 713.8  |
| 544.4  |
| 314.5  |
| 0.0    |

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