

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: P956932

Luminaire Tested: **GLAN-SB9B-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9B-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36941 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

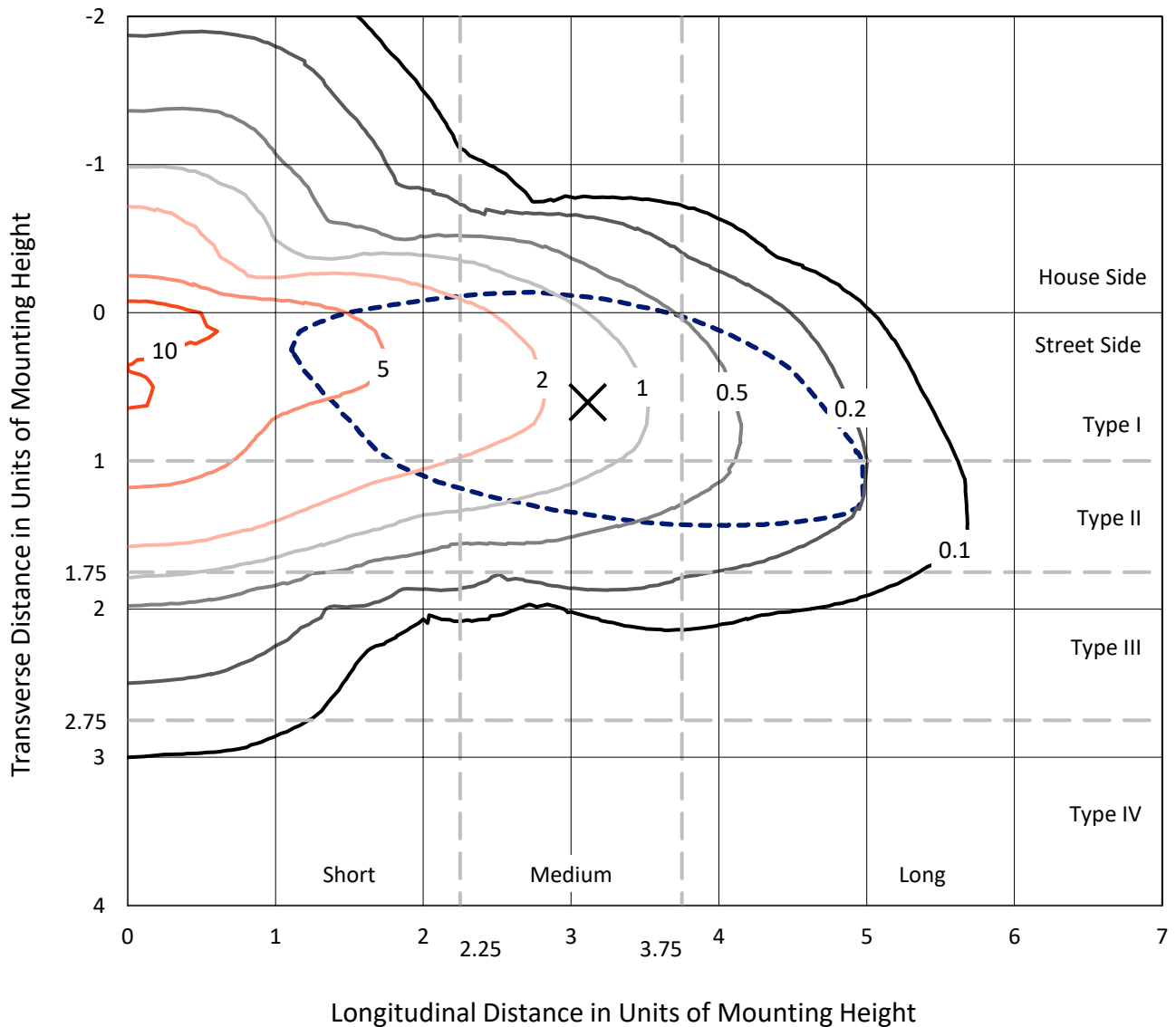
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

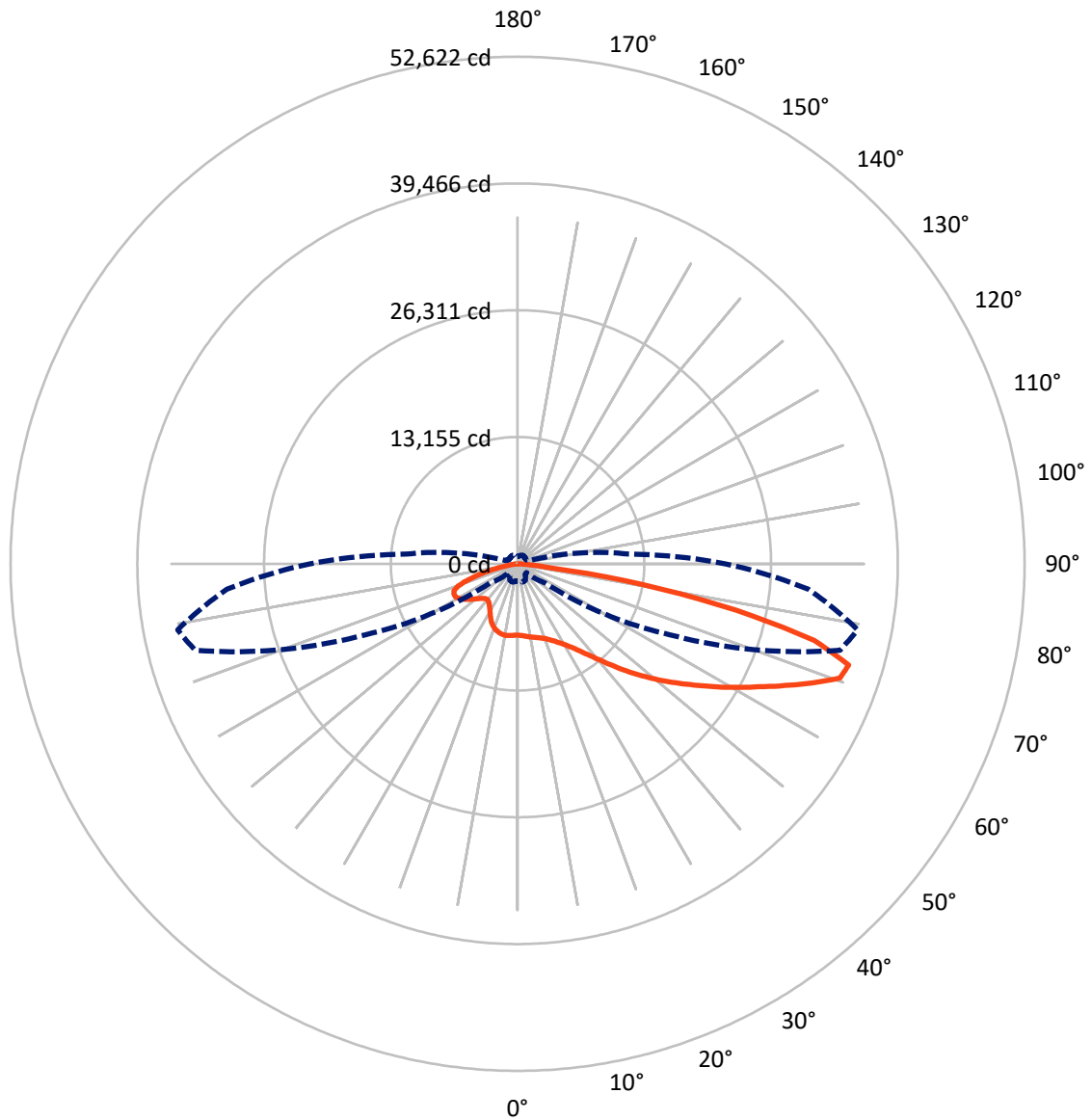
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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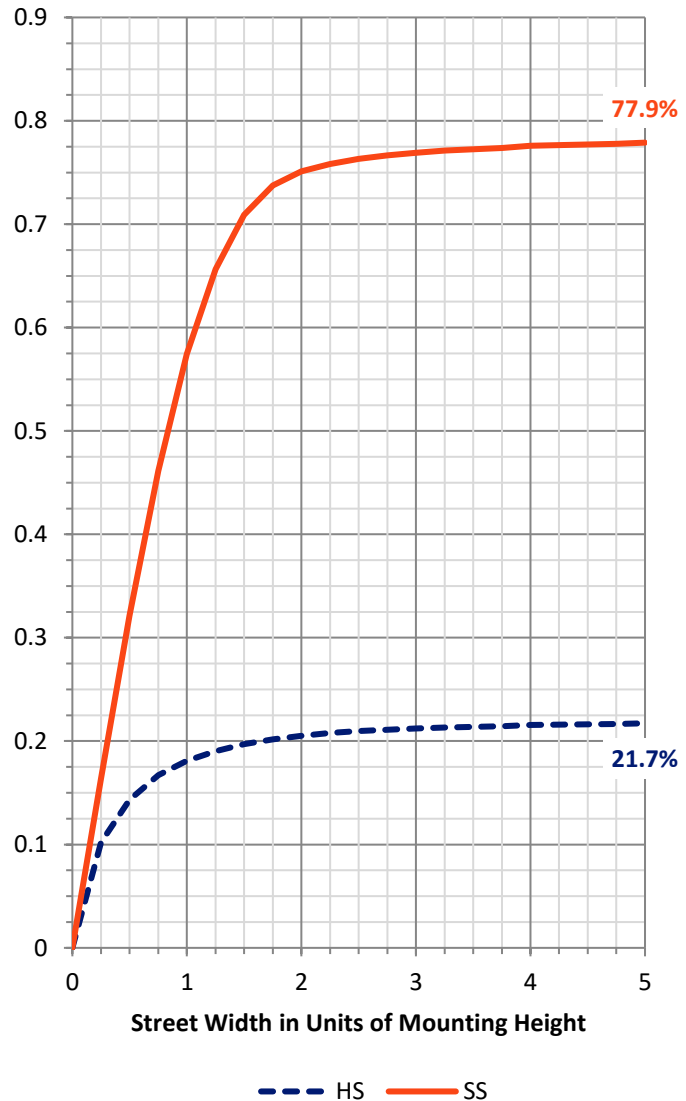
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8129.1 | 0.0 | 8129.1 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 28811.9 | 0.0 | 28811.9 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 36941.0 | 0.0 | 36941.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 673.1 | 1.8 |
| 10°-20° | 1759.9 | 4.8 |
| 20°-30° | 2839.7 | 7.7 |
| 30°-40° | 4262.0 | 11.5 |
| 40°-50° | 6045.9 | 16.4 |
| 50°-60° | 7635.1 | 20.7 |
| 60°-70° | 7754.5 | 21.0 |
| 70°-80° | 5285.1 | 14.3 |
| 80°-90° | 685.7 | 1.9 |
| 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° | 36941.0 | 100.0 |
| 0°-180° | 36941.0 | 100.0 |

Coefficient of Utilization

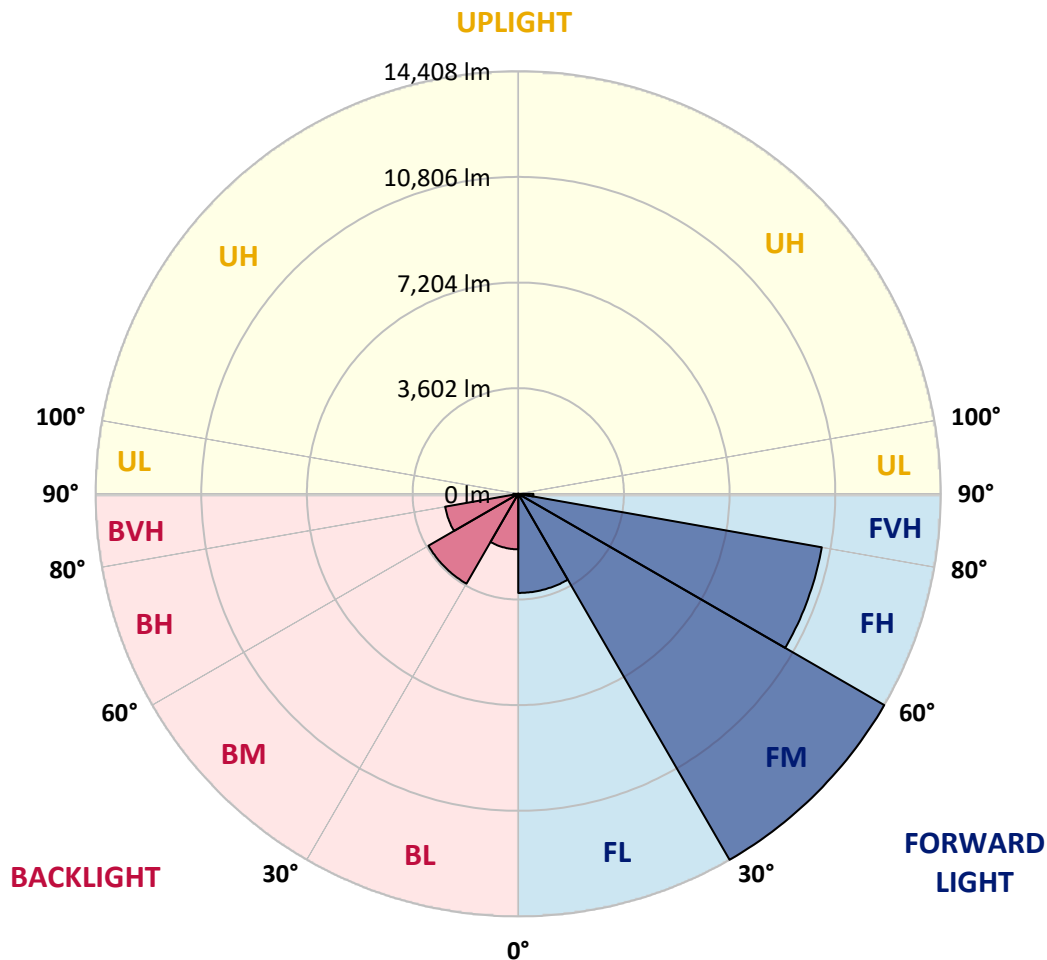


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3379.2 | 9.1 | | | |
| FM (30°-60°) | 14407.7 | 39.0 | | | |
| FH (60°-80°) | 10508.5 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 516.5 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1893.5 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3535.3 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 2531.1 | 6.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 169.2 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 |
| 2.5° | 7419.5 | 7384.3 | 7405.8 | 7398.0 | 7407.7 | 7419.5 | 7423.4 | 7429.2 | 7448.8 | 7446.8 |
| 5° | 7403.8 | 7368.7 | 7398.0 | 7388.2 | 7413.6 | 7441.0 | 7464.4 | 7485.9 | 7517.2 | 7530.8 |
| 7.5° | 7370.6 | 7347.2 | 7376.5 | 7405.8 | 7452.7 | 7493.7 | 7526.9 | 7575.8 | 7620.7 | 7628.5 |
| 10° | 7177.2 | 7159.6 | 7228.0 | 7304.2 | 7433.1 | 7544.5 | 7616.8 | 7673.5 | 7722.3 | 7730.2 |
| 12.5° | 6975.9 | 6954.4 | 7030.6 | 7134.2 | 7343.3 | 7544.5 | 7696.9 | 7771.2 | 7814.2 | 7839.6 |
| 15° | 6942.7 | 6925.1 | 6968.1 | 7058.0 | 7231.9 | 7491.8 | 7751.6 | 7888.4 | 7925.6 | 7954.9 |
| 17.5° | 7102.9 | 7069.7 | 7087.3 | 7118.5 | 7220.2 | 7442.9 | 7794.6 | 8021.3 | 8078.0 | 8109.2 |
| 20° | 7474.2 | 7427.3 | 7399.9 | 7337.4 | 7319.8 | 7450.7 | 7790.7 | 8181.5 | 8255.8 | 8294.9 |
| 22.5° | 7968.5 | 7937.3 | 7878.7 | 7720.4 | 7548.4 | 7546.5 | 7865.0 | 8386.7 | 8525.4 | 8562.6 |
| 25° | 8566.5 | 8519.6 | 8445.3 | 8230.4 | 7900.2 | 7736.0 | 7990.0 | 8648.5 | 8881.1 | 8890.8 |
| 27.5° | 9254.3 | 9184.0 | 9082.3 | 8799.0 | 8353.5 | 8033.0 | 8181.5 | 8949.5 | 9289.5 | 9285.6 |
| 30° | 9979.2 | 9908.9 | 9801.4 | 9457.5 | 8896.7 | 8433.6 | 8447.3 | 9273.8 | 9774.1 | 9752.6 |
| 32.5° | 10508.8 | 10456.0 | 10434.5 | 10168.8 | 9522.0 | 8906.5 | 8752.1 | 9633.4 | 10372.0 | 10352.5 |
| 35° | 10915.2 | 10846.8 | 10872.2 | 10737.4 | 10204.0 | 9436.0 | 9125.3 | 10061.3 | 11098.9 | 11097.0 |
| 37.5° | 11317.8 | 11257.2 | 11278.7 | 11188.8 | 10835.1 | 10108.2 | 9580.6 | 10585.0 | 11999.7 | 12042.7 |
| 40° | 11685.1 | 11620.6 | 11706.6 | 11622.6 | 11325.6 | 10823.4 | 10098.4 | 11177.1 | 13043.2 | 13125.2 |
| 42.5° | 11905.9 | 11855.1 | 11997.8 | 11999.7 | 11751.6 | 11427.2 | 10667.1 | 11829.7 | 14250.8 | 14434.4 |
| 45° | 11982.1 | 11964.5 | 12179.5 | 12224.4 | 12128.7 | 11777.0 | 11179.0 | 12541.0 | 15552.1 | 15880.4 |
| 47.5° | 11900.1 | 11866.8 | 12163.9 | 12329.9 | 12406.2 | 11941.1 | 11603.0 | 13310.9 | 16880.9 | 17361.6 |
| 50° | 11485.8 | 11421.3 | 11862.9 | 12212.7 | 12484.3 | 12048.6 | 12031.0 | 14200.0 | 18391.4 | 18917.0 |
| 52.5° | 10741.3 | 10692.5 | 11194.7 | 11802.4 | 12312.4 | 12101.3 | 12511.7 | 15171.1 | 19825.6 | 20505.6 |
| 55° | 9789.7 | 9725.2 | 10278.2 | 11071.5 | 11884.4 | 12083.7 | 12992.4 | 16257.6 | 21517.8 | 22207.6 |
| 57.5° | 8281.2 | 8152.2 | 8851.8 | 9789.7 | 11186.8 | 12062.2 | 13492.6 | 17338.1 | 23237.4 | 24063.9 |
| 60° | 6081.0 | 5889.5 | 6747.3 | 7859.1 | 9822.9 | 11853.2 | 14112.0 | 18549.6 | 25300.8 | 26045.3 |
| 62.5° | 3540.7 | 3429.3 | 3990.1 | 5027.7 | 7403.8 | 10622.1 | 14459.8 | 19958.5 | 27329.1 | 28110.7 |
| 65° | 2749.3 | 2718.1 | 2766.9 | 2847.0 | 4121.1 | 7952.9 | 13387.1 | 21332.2 | 29908.4 | 30455.6 |
| 67.5° | 2514.8 | 2491.4 | 2512.9 | 2362.4 | 2090.8 | 4429.8 | 10590.9 | 21680.0 | 32671.4 | 33003.6 |
| 70° | 2235.4 | 2208.1 | 2278.4 | 2149.4 | 1645.3 | 2014.6 | 6843.0 | 20417.7 | 34869.7 | 35493.1 |
| 72.5° | 1821.2 | 1789.9 | 1954.0 | 1895.4 | 1385.4 | 1293.6 | 3437.1 | 17418.2 | 34639.1 | 35932.7 |
| 75° | 1399.1 | 1381.5 | 1576.9 | 1625.8 | 1129.4 | 1018.1 | 1649.2 | 12947.4 | 30482.9 | 31786.3 |
| 77.5° | 1086.4 | 1072.8 | 1172.4 | 1350.2 | 910.6 | 789.4 | 1014.1 | 8212.8 | 22971.6 | 23200.2 |
| 80° | 814.8 | 775.8 | 867.6 | 1045.4 | 709.3 | 576.4 | 687.8 | 4789.3 | 14520.4 | 13162.4 |
| 82.5° | 510.0 | 490.5 | 566.7 | 697.6 | 500.2 | 396.7 | 447.5 | 2645.8 | 5819.1 | 3427.4 |
| 85° | 291.2 | 283.3 | 308.7 | 398.6 | 271.6 | 228.6 | 256.0 | 1168.5 | 1063.0 | 730.8 |
| 87.5° | 117.2 | 113.3 | 140.7 | 177.8 | 99.7 | 84.0 | 89.9 | 281.4 | 234.5 | 216.9 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7415.6 | 0° | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 | 7415.6 |
| 7444.9 | 2.5° | 7437.0 | 7437.0 | 7409.7 | 7366.7 | 7317.9 | 7286.6 | 7235.8 | 7222.1 | 7169.3 | 7153.7 |
| 7511.3 | 5° | 7526.9 | 7511.3 | 7427.3 | 7306.1 | 7140.0 | 6987.6 | 6819.6 | 6714.1 | 6565.6 | 6512.8 |
| 7642.2 | 7.5° | 7640.3 | 7597.3 | 7452.7 | 7186.9 | 6839.1 | 6497.2 | 6141.5 | 5871.9 | 5613.9 | 5522.1 |
| 7749.7 | 10° | 7743.8 | 7683.3 | 7437.0 | 6972.0 | 6370.1 | 5778.1 | 5211.4 | 4814.7 | 4513.8 | 4390.7 |
| 7868.9 | 12.5° | 7847.4 | 7736.0 | 7333.5 | 6614.4 | 5703.8 | 4900.7 | 4296.9 | 3988.2 | 3802.5 | 3654.0 |
| 7966.6 | 15° | 7945.1 | 7788.8 | 7173.3 | 6135.7 | 4973.0 | 4158.2 | 3712.7 | 3466.5 | 3317.9 | 3220.2 |
| 8109.2 | 17.5° | 8058.4 | 7833.7 | 6932.9 | 5528.0 | 4277.4 | 3644.3 | 3280.8 | 3132.3 | 3103.0 | 3091.3 |
| 8304.6 | 20° | 8216.7 | 7874.8 | 6616.4 | 4848.0 | 3765.4 | 3233.9 | 3046.3 | 3032.7 | 3030.7 | 3024.8 |
| 8539.1 | 22.5° | 8386.7 | 7923.6 | 6198.2 | 4230.5 | 3329.7 | 2977.9 | 2944.7 | 2917.4 | 2899.8 | 2897.8 |
| 8822.5 | 25° | 8588.0 | 7939.2 | 5674.5 | 3724.4 | 2958.4 | 2856.8 | 2817.7 | 2776.7 | 2765.0 | 2765.0 |
| 9144.9 | 27.5° | 8783.4 | 7886.5 | 5064.9 | 3284.7 | 2749.3 | 2745.4 | 2694.6 | 2680.9 | 2679.0 | 2684.8 |
| 9512.2 | 30° | 8978.8 | 7786.8 | 4459.1 | 2878.3 | 2628.2 | 2628.2 | 2610.6 | 2620.4 | 2628.2 | 2647.7 |
| 10016.4 | 32.5° | 9242.6 | 7681.3 | 3953.0 | 2577.4 | 2522.7 | 2503.1 | 2520.7 | 2540.2 | 2548.1 | 2573.5 |
| 10678.8 | 35° | 9629.5 | 7607.0 | 3550.5 | 2413.2 | 2413.2 | 2387.8 | 2397.6 | 2393.7 | 2376.1 | 2364.4 |
| 11479.9 | 37.5° | 10141.4 | 7603.1 | 3218.3 | 2337.0 | 2321.4 | 2317.5 | 2319.4 | 2294.0 | 2225.6 | 2143.6 |
| 12449.1 | 40° | 10757.0 | 7708.7 | 2962.3 | 2284.3 | 2272.5 | 2296.0 | 2284.3 | 2215.9 | 2028.3 | 1885.6 |
| 13641.1 | 42.5° | 11583.5 | 8009.6 | 2798.2 | 2219.8 | 2255.0 | 2284.3 | 2237.4 | 2000.9 | 1873.9 | 1778.2 |
| 14999.2 | 45° | 12556.6 | 8498.1 | 2714.2 | 2151.4 | 2221.7 | 2256.9 | 2030.2 | 1926.7 | 1825.1 | 1709.8 |
| 16480.3 | 47.5° | 13658.7 | 9113.6 | 2694.6 | 2086.9 | 2147.5 | 2169.0 | 1942.3 | 1895.4 | 1780.1 | 1655.1 |
| 17969.3 | 50° | 14858.5 | 9842.5 | 2747.4 | 2010.7 | 2040.0 | 1965.8 | 1913.0 | 1870.0 | 1750.8 | 1627.7 |
| 19495.4 | 52.5° | 16099.3 | 10645.6 | 2852.9 | 1907.1 | 1932.5 | 1850.5 | 1901.3 | 1864.1 | 1733.2 | 1567.1 |
| 21072.3 | 55° | 17318.6 | 11454.5 | 2954.5 | 1786.0 | 1823.1 | 1746.9 | 1868.1 | 1840.7 | 1653.1 | 1465.5 |
| 22754.7 | 57.5° | 18557.4 | 12259.6 | 3054.2 | 1678.5 | 1717.6 | 1647.2 | 1815.3 | 1778.2 | 1563.2 | 1371.7 |
| 24591.5 | 60° | 19845.2 | 13041.2 | 3101.1 | 1575.0 | 1602.3 | 1555.4 | 1735.2 | 1670.7 | 1461.6 | 1276.0 |
| 26397.0 | 62.5° | 21050.8 | 13691.9 | 3024.8 | 1471.4 | 1489.0 | 1469.4 | 1629.7 | 1543.7 | 1360.0 | 1168.5 |
| 28278.8 | 65° | 22260.3 | 14078.8 | 2790.4 | 1369.8 | 1373.7 | 1363.9 | 1481.2 | 1406.9 | 1240.8 | 1074.7 |
| 29926.0 | 67.5° | 23356.6 | 14295.7 | 2417.1 | 1260.4 | 1250.6 | 1246.7 | 1342.4 | 1258.4 | 1125.5 | 980.9 |
| 31178.5 | 70° | 23589.1 | 13744.7 | 1846.6 | 1131.4 | 1131.4 | 1121.6 | 1190.0 | 1104.0 | 998.5 | 881.3 |
| 30281.6 | 72.5° | 21545.2 | 11562.0 | 1311.2 | 984.8 | 1000.5 | 980.9 | 1037.6 | 965.3 | 869.5 | 791.4 |
| 26098.1 | 75° | 17373.3 | 8478.5 | 953.6 | 834.4 | 861.7 | 828.5 | 881.3 | 830.5 | 748.4 | 746.4 |
| 17984.9 | 77.5° | 11937.2 | 5242.7 | 691.7 | 687.8 | 707.4 | 664.4 | 724.9 | 697.6 | 623.3 | 590.1 |
| 7827.9 | 80° | 5094.2 | 2090.8 | 504.1 | 531.5 | 531.5 | 492.4 | 562.8 | 570.6 | 506.1 | 490.5 |
| 1510.5 | 82.5° | 1014.1 | 594.0 | 353.7 | 365.4 | 343.9 | 332.2 | 398.6 | 441.6 | 609.7 | 678.0 |
| 455.3 | 85° | 304.8 | 218.9 | 213.0 | 199.3 | 175.9 | 177.8 | 234.5 | 443.6 | 547.1 | 312.6 |
| 150.5 | 87.5° | 84.0 | 54.7 | 56.7 | 44.9 | 37.1 | 48.9 | 80.1 | 336.1 | 183.7 | 78.2 |
| 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° |
|--------|
| 7415.6 |
| 7179.1 |
| 6551.9 |
| 5533.8 |
| 4418.1 |
| 3702.9 |
| 3237.8 |
| 3099.1 |
| 3044.4 |
| 2919.3 |
| 2776.7 |
| 2700.5 |
| 2661.4 |
| 2595.0 |
| 2391.7 |
| 2145.5 |
| 1881.7 |
| 1774.3 |
| 1702.0 |
| 1645.3 |
| 1614.0 |
| 1555.4 |
| 1455.8 |
| 1367.8 |
| 1270.1 |
| 1166.6 |
| 1063.0 |
| 969.2 |
| 877.4 |
| 767.9 |
| 672.2 |
| 553.0 |
| 490.5 |
| 680.0 |
| 269.7 |
| 66.4 |
| 0.0 |

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