

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: P457687

Luminaire Tested: **GLAN-SA9A-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35736 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

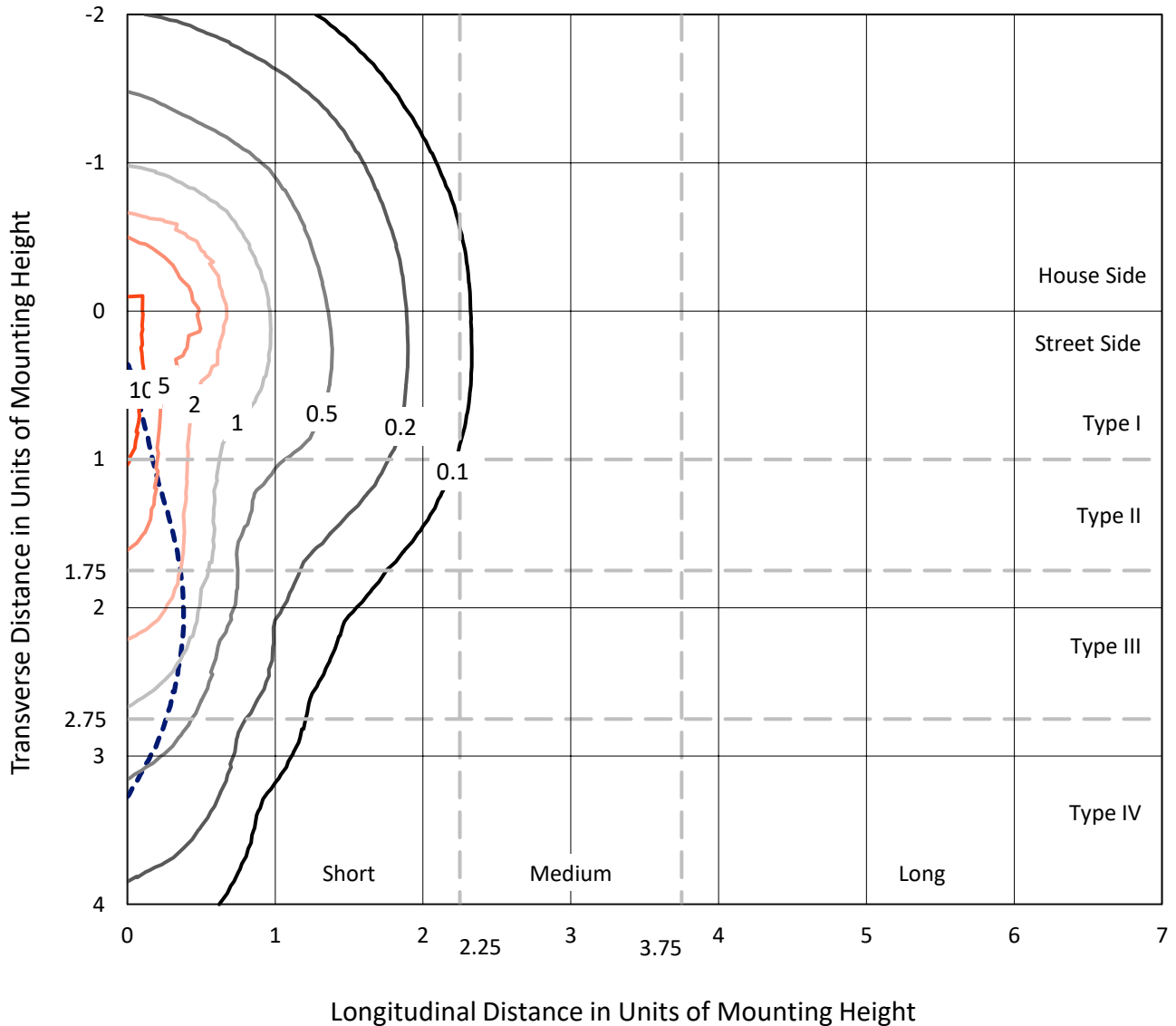
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

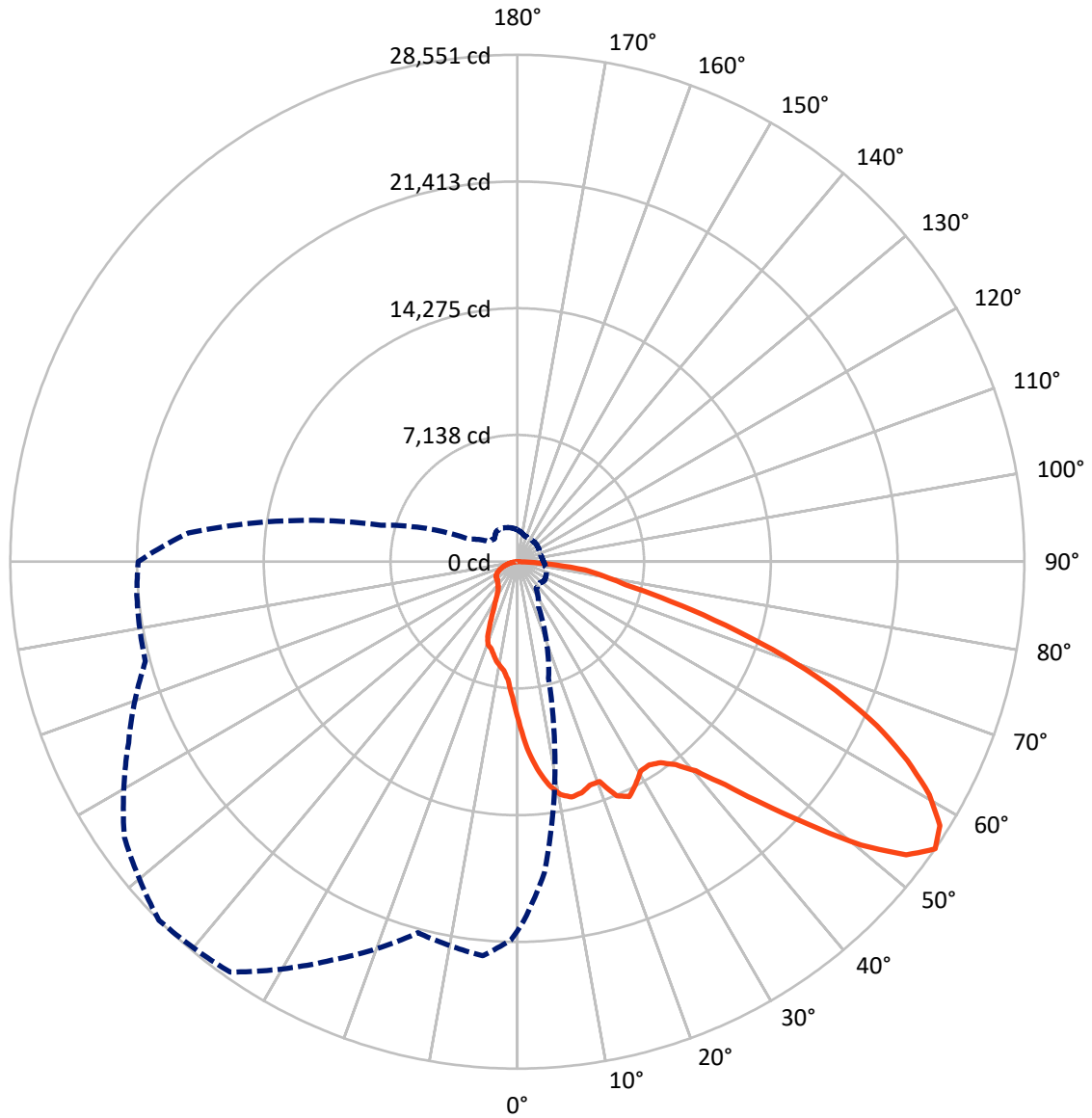
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GLAN-SA9A-740-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7817.1 | 0.0 | 7817.1 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 27918.9 | 0.0 | 27918.9 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 35736.0 | 0.0 | 35736.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 760.1 | 2.1 |
| 10°-20° | 2016.5 | 5.6 |
| 20°-30° | 3483.7 | 9.7 |
| 30°-40° | 4048.6 | 11.3 |
| 40°-50° | 5648.6 | 15.8 |
| 50°-60° | 7664.5 | 21.4 |
| 60°-70° | 7291.9 | 20.4 |
| 70°-80° | 3939.3 | 11.0 |
| 80°-90° | 882.9 | 2.5 |
| 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° | 35736.0 | 100.0 |
| 0°-180° | 35736.0 | 100.0 |



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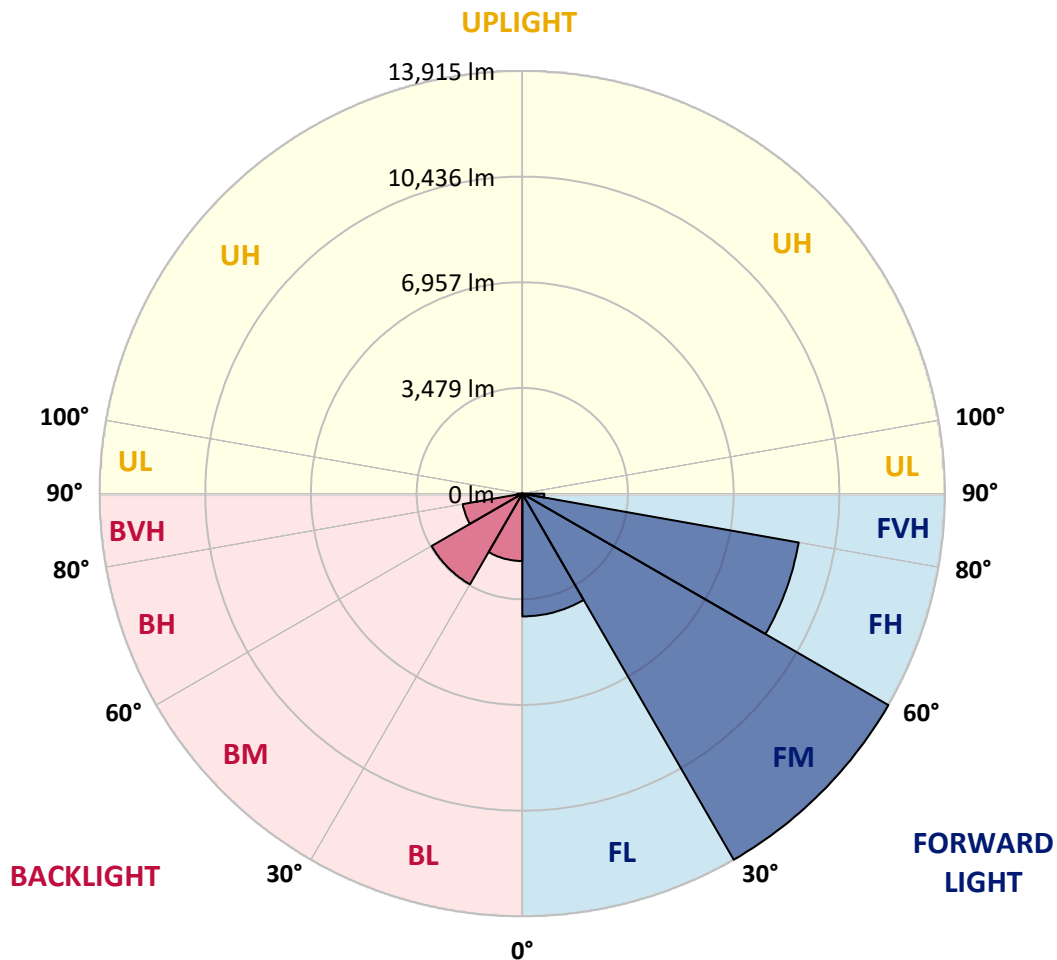
CATALOG NUMBER: GLAN-SA9A-740-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4041.8 | 11.3 | | | |
| FM | (30°-60°) | 13914.8 | 38.9 | | | |
| FH | (60°-80°) | 9240.7 | 25.9 | | | G4/12000 |
| FVH | (80°-90°) | 721.5 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 2218.5 | 6.2 | B3/2500 | | |
| BM | (30°-60°) | 3446.8 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 1990.4 | 5.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 161.3 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CATALOG NUMBER: GLAN-SA9A-740-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 |
| 2.5° | 9963.3 | 9925.5 | 9819.4 | 9541.2 | 9260.7 | 8975.4 | 8756.2 | 8482.7 | 8197.4 | 8044.2 | 7848.5 |
| 5° | 10100.0 | 10057.6 | 9807.6 | 9180.5 | 8612.3 | 8015.9 | 7539.6 | 7122.3 | 6952.6 | 6702.7 | 6502.3 |
| 7.5° | 9779.4 | 9760.5 | 9385.6 | 8485.0 | 7707.0 | 6926.7 | 6386.8 | 6052.0 | 5747.8 | 5634.7 | 5658.3 |
| 10° | 9487.0 | 9411.6 | 8942.4 | 7766.0 | 6858.3 | 6224.1 | 5837.4 | 5509.7 | 5295.2 | 5238.6 | 5250.4 |
| 12.5° | 9244.2 | 9142.8 | 8588.8 | 7282.7 | 6488.1 | 5981.3 | 5488.5 | 5146.7 | 4951.0 | 5005.2 | 5189.1 |
| 15° | 9194.7 | 9057.9 | 8440.2 | 7117.6 | 6285.4 | 5632.3 | 5092.4 | 4698.7 | 4552.5 | 4670.4 | 4965.1 |
| 17.5° | 9515.3 | 9343.2 | 8694.9 | 7171.8 | 6092.1 | 5276.3 | 4613.8 | 4163.5 | 4040.9 | 4229.5 | 4613.8 |
| 20° | 10545.6 | 10291.0 | 9489.4 | 7485.4 | 6073.2 | 5099.5 | 4335.6 | 3883.0 | 3934.8 | 4293.2 | 4694.0 |
| 22.5° | 12450.5 | 12068.6 | 10880.4 | 7942.8 | 6172.2 | 5054.7 | 4279.1 | 4043.3 | 4328.6 | 4632.7 | 4896.8 |
| 25° | 12827.7 | 12528.3 | 11130.3 | 8046.5 | 6151.0 | 5024.1 | 4439.4 | 4557.3 | 4875.5 | 5026.4 | 4934.5 |
| 27.5° | 13039.9 | 12698.1 | 11113.8 | 7532.6 | 5500.3 | 4557.3 | 4243.7 | 4439.4 | 4519.5 | 4373.4 | 4123.5 |
| 30° | 13535.0 | 13179.0 | 11394.3 | 6992.7 | 4529.0 | 3380.8 | 2963.5 | 2883.4 | 2937.6 | 2965.9 | 2876.3 |
| 32.5° | 14216.4 | 13865.1 | 11922.4 | 6639.0 | 3916.0 | 2796.1 | 2385.9 | 2272.7 | 2246.8 | 2216.2 | 2180.8 |
| 35° | 15098.1 | 14558.2 | 12441.1 | 6412.7 | 3663.7 | 2586.3 | 2209.1 | 2121.8 | 2086.5 | 2044.0 | 2006.3 |
| 37.5° | 15994.0 | 15428.2 | 13096.5 | 6174.6 | 3496.3 | 2440.1 | 2091.2 | 2051.1 | 1989.8 | 1945.0 | 1890.8 |
| 40° | 16946.5 | 16312.3 | 13693.0 | 5967.1 | 3333.7 | 2345.8 | 2006.3 | 2001.6 | 1921.5 | 1869.6 | 1805.9 |
| 42.5° | 17771.6 | 17118.6 | 14225.8 | 5839.8 | 3208.7 | 2246.8 | 1954.5 | 1968.6 | 1886.1 | 1808.3 | 1725.8 |
| 45° | 18427.1 | 17785.8 | 14718.5 | 5839.8 | 3107.3 | 2147.8 | 1945.0 | 1935.6 | 1853.1 | 1756.4 | 1662.1 |
| 47.5° | 19002.3 | 18339.8 | 15199.5 | 5988.3 | 3043.7 | 2065.3 | 1893.2 | 1909.7 | 1824.8 | 1702.2 | 1610.2 |
| 50° | 19447.9 | 18863.2 | 15847.8 | 6219.4 | 2980.0 | 1999.3 | 1827.1 | 1916.7 | 1801.2 | 1673.9 | 1567.8 |
| 52.5° | 20016.1 | 19492.7 | 16628.2 | 6535.3 | 2925.8 | 1926.2 | 1768.2 | 1916.7 | 1798.9 | 1676.3 | 1560.7 |
| 55° | 20803.5 | 20251.9 | 17568.9 | 6797.0 | 2838.6 | 1857.8 | 1716.3 | 1862.5 | 1791.8 | 1664.5 | 1541.9 |
| 57.5° | 21355.2 | 20942.6 | 18233.7 | 6971.4 | 2713.6 | 1770.6 | 1669.2 | 1810.6 | 1761.1 | 1619.7 | 1485.3 |
| 58° | 21381.1 | 20978.0 | 18330.4 | 7011.5 | 2683.0 | 1754.1 | 1657.4 | 1787.1 | 1747.0 | 1600.8 | 1466.4 |
| 60° | 21084.1 | 20737.5 | 18349.3 | 6954.9 | 2508.5 | 1671.5 | 1596.1 | 1690.4 | 1671.5 | 1490.0 | 1365.1 |
| 62.5° | 20004.3 | 19634.2 | 17587.8 | 6495.2 | 2277.4 | 1570.2 | 1501.8 | 1560.7 | 1518.3 | 1334.4 | 1218.9 |
| 65° | 18469.5 | 17788.2 | 16022.3 | 5773.8 | 2112.4 | 1461.7 | 1374.5 | 1379.2 | 1334.4 | 1202.4 | 1101.0 |
| 67.5° | 16425.5 | 15663.9 | 13565.7 | 4866.1 | 1987.5 | 1341.5 | 1223.6 | 1211.8 | 1157.6 | 1072.7 | 990.2 |
| 70° | 13909.9 | 13388.9 | 11024.2 | 3958.4 | 1848.4 | 1209.5 | 1053.9 | 1046.8 | 1013.8 | 950.1 | 877.0 |
| 72.5° | 11274.1 | 10611.6 | 8902.3 | 3168.6 | 1678.6 | 1082.1 | 895.9 | 910.0 | 867.6 | 822.8 | 756.8 |
| 75° | 8320.0 | 7886.2 | 6881.9 | 2541.5 | 1449.9 | 943.0 | 747.4 | 752.1 | 733.2 | 686.1 | 634.2 |
| 77.5° | 5479.1 | 5349.4 | 4922.7 | 1669.2 | 1115.1 | 749.7 | 610.6 | 615.3 | 601.2 | 558.8 | 504.5 |
| 80° | 3687.3 | 3600.1 | 3336.0 | 1075.1 | 745.0 | 542.2 | 471.5 | 476.2 | 473.9 | 429.1 | 356.0 |
| 82.5° | 2272.7 | 2235.0 | 2150.1 | 726.1 | 516.3 | 389.0 | 311.2 | 325.3 | 351.3 | 301.8 | 242.8 |
| 85° | 1072.7 | 1075.1 | 1299.0 | 396.1 | 304.1 | 249.9 | 169.7 | 181.5 | 181.5 | 181.5 | 136.7 |
| 87.5° | 139.1 | 146.2 | 179.2 | 167.4 | 110.8 | 94.3 | 61.3 | 51.9 | 44.8 | 58.9 | 42.4 |
| 90° | 0.0 | 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 |
| 2.5° | 7780.1 | 7733.0 | 7631.6 | 7608.0 | 7593.9 | 7633.9 | 7527.8 | 7556.1 | 7509.0 | 7641.0 | 7619.8 |
| 5° | 6514.1 | 6518.8 | 6601.3 | 6655.5 | 6674.4 | 6655.5 | 6584.8 | 6462.2 | 6367.9 | 6330.2 | 6339.6 |
| 7.5° | 5613.5 | 5696.0 | 5837.4 | 5995.4 | 6139.2 | 6181.6 | 6141.6 | 5908.2 | 5653.5 | 5493.2 | 5441.4 |
| 10° | 5314.0 | 5424.9 | 5587.5 | 5712.5 | 5839.8 | 5941.2 | 5962.4 | 5780.9 | 5479.1 | 5099.5 | 4951.0 |
| 12.5° | 5330.6 | 5481.4 | 5637.0 | 5677.1 | 5665.3 | 5705.4 | 5686.6 | 5655.9 | 5457.9 | 4974.6 | 4727.0 |
| 15° | 5174.9 | 5354.1 | 5462.6 | 5441.4 | 5403.6 | 5368.3 | 5318.8 | 5241.0 | 5170.2 | 4830.7 | 4557.3 |
| 17.5° | 4816.6 | 5000.5 | 5090.1 | 5097.1 | 5097.1 | 5087.7 | 4967.5 | 4939.2 | 4929.8 | 4764.7 | 4597.3 |
| 20° | 4882.6 | 4984.0 | 4943.9 | 4877.9 | 4896.8 | 4960.4 | 4889.7 | 4875.5 | 4929.8 | 5002.8 | 4972.2 |
| 22.5° | 4920.3 | 4885.0 | 4583.2 | 4290.8 | 4224.8 | 4422.9 | 4463.0 | 4620.9 | 4840.2 | 5104.2 | 5276.3 |
| 25° | 4686.9 | 4401.7 | 3861.8 | 3531.7 | 3345.4 | 3529.3 | 3769.8 | 4062.2 | 4389.9 | 4729.4 | 4929.8 |
| 27.5° | 3918.3 | 3701.4 | 3314.8 | 3017.7 | 2855.1 | 2883.4 | 3088.5 | 3354.9 | 3659.0 | 3887.7 | 4033.9 |
| 30° | 2951.7 | 2855.1 | 2654.7 | 2553.3 | 2454.3 | 2430.7 | 2517.9 | 2619.3 | 2753.7 | 2782.0 | 2819.7 |
| 32.5° | 2173.7 | 2159.6 | 2171.4 | 2138.4 | 2119.5 | 2117.1 | 2091.2 | 2114.8 | 2128.9 | 2145.4 | 2112.4 |
| 35° | 1966.2 | 1947.4 | 1914.4 | 1904.9 | 1893.2 | 1897.9 | 1886.1 | 1874.3 | 1883.7 | 1897.9 | 1907.3 |
| 37.5° | 1860.2 | 1831.9 | 1784.7 | 1768.2 | 1768.2 | 1775.3 | 1756.4 | 1751.7 | 1768.2 | 1813.0 | 1836.6 |
| 40° | 1777.6 | 1744.6 | 1690.4 | 1669.2 | 1683.3 | 1702.2 | 1676.3 | 1666.8 | 1706.9 | 1754.1 | 1791.8 |
| 42.5° | 1699.8 | 1673.9 | 1622.0 | 1598.5 | 1610.2 | 1645.6 | 1607.9 | 1600.8 | 1652.7 | 1704.6 | 1749.3 |
| 45° | 1633.8 | 1607.9 | 1560.7 | 1548.9 | 1553.7 | 1586.7 | 1560.7 | 1560.7 | 1610.2 | 1666.8 | 1706.9 |
| 47.5° | 1582.0 | 1548.9 | 1518.3 | 1508.9 | 1513.6 | 1532.4 | 1527.7 | 1527.7 | 1574.9 | 1633.8 | 1673.9 |
| 50° | 1530.1 | 1501.8 | 1461.7 | 1466.4 | 1478.2 | 1504.2 | 1501.8 | 1508.9 | 1556.0 | 1629.1 | 1671.5 |
| 52.5° | 1506.5 | 1464.1 | 1419.3 | 1424.0 | 1459.4 | 1490.0 | 1480.6 | 1487.7 | 1541.9 | 1678.6 | 1739.9 |
| 55° | 1480.6 | 1424.0 | 1372.1 | 1379.2 | 1419.3 | 1464.1 | 1452.3 | 1461.7 | 1525.4 | 1711.6 | 1796.5 |
| 57.5° | 1431.1 | 1365.1 | 1308.5 | 1313.2 | 1372.1 | 1419.3 | 1400.4 | 1412.2 | 1487.7 | 1676.3 | 1765.8 |
| 58° | 1409.8 | 1353.3 | 1299.0 | 1301.4 | 1358.0 | 1409.8 | 1388.6 | 1398.1 | 1475.9 | 1666.8 | 1751.7 |
| 60° | 1320.3 | 1287.3 | 1240.1 | 1242.5 | 1296.7 | 1341.5 | 1329.7 | 1339.1 | 1414.6 | 1598.5 | 1662.1 |
| 62.5° | 1197.7 | 1178.8 | 1167.0 | 1167.0 | 1200.0 | 1242.5 | 1254.2 | 1266.0 | 1334.4 | 1445.2 | 1501.8 |
| 65° | 1065.6 | 1065.6 | 1068.0 | 1068.0 | 1089.2 | 1143.4 | 1150.5 | 1181.2 | 1244.8 | 1299.0 | 1341.5 |
| 67.5° | 976.0 | 971.3 | 976.0 | 964.3 | 973.7 | 1006.7 | 1042.1 | 1070.4 | 1136.4 | 1174.1 | 1188.2 |
| 70° | 860.5 | 858.2 | 860.5 | 844.0 | 855.8 | 884.1 | 907.7 | 954.8 | 1023.2 | 1051.5 | 1058.6 |
| 72.5° | 747.4 | 747.4 | 752.1 | 740.3 | 740.3 | 770.9 | 787.4 | 839.3 | 903.0 | 919.5 | 921.8 |
| 75° | 629.5 | 636.6 | 636.6 | 620.1 | 624.8 | 643.6 | 664.8 | 707.3 | 766.2 | 778.0 | 778.0 |
| 77.5° | 499.8 | 525.7 | 525.7 | 509.2 | 516.3 | 518.7 | 547.0 | 568.2 | 613.0 | 617.7 | 598.8 |
| 80° | 363.1 | 389.0 | 410.2 | 396.1 | 407.9 | 393.7 | 410.2 | 424.4 | 469.2 | 447.9 | 417.3 |
| 82.5° | 259.3 | 278.2 | 294.7 | 297.1 | 285.3 | 259.3 | 280.6 | 282.9 | 304.1 | 275.8 | 259.3 |
| 85° | 143.8 | 160.3 | 181.5 | 172.1 | 153.2 | 136.7 | 143.8 | 148.5 | 146.2 | 139.1 | 129.7 |
| 87.5° | 37.7 | 40.1 | 44.8 | 33.0 | 30.6 | 25.9 | 35.4 | 35.4 | 40.1 | 42.4 | 40.1 |
| 90° | 0.0 | 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 | 8968.3 |
| 2.5° | 7636.3 | 7740.0 | 7964.0 | 8133.7 | 8341.2 | 8593.5 | 8890.5 | 9190.0 | 9512.9 | 9614.3 | 9755.8 |
| 5° | 6318.4 | 6577.7 | 6686.2 | 6995.0 | 7301.5 | 7761.2 | 8251.6 | 8819.8 | 9442.2 | 9741.6 | 10029.3 |
| 7.5° | 5398.9 | 5538.0 | 5651.2 | 5877.5 | 6245.3 | 6804.1 | 7419.4 | 8129.0 | 9010.8 | 9446.9 | 9868.9 |
| 10° | 4903.8 | 4918.0 | 5057.1 | 5337.6 | 5658.3 | 6151.0 | 6733.3 | 7527.8 | 8511.0 | 9041.4 | 9536.5 |
| 12.5° | 4576.1 | 4514.8 | 4665.7 | 4958.0 | 5321.1 | 5776.1 | 6311.3 | 7068.1 | 8150.3 | 8694.9 | 9293.7 |
| 15° | 4288.5 | 4191.8 | 4305.0 | 4604.4 | 4962.8 | 5497.9 | 6073.2 | 6874.8 | 8008.8 | 8643.0 | 9307.8 |
| 17.5° | 4295.6 | 4029.2 | 4069.2 | 4321.5 | 4677.5 | 5222.1 | 5920.0 | 6867.7 | 8223.3 | 8954.2 | 9741.6 |
| 20° | 4826.0 | 4399.3 | 4217.8 | 4264.9 | 4609.1 | 5203.2 | 5990.7 | 7197.8 | 8928.3 | 9993.9 | 10835.6 |
| 22.5° | 5347.1 | 5090.1 | 4797.7 | 4701.1 | 4889.7 | 5512.1 | 6441.0 | 7978.1 | 10460.7 | 12066.2 | 13586.9 |
| 25° | 5165.5 | 5384.8 | 5311.7 | 5174.9 | 5217.4 | 5733.7 | 6747.5 | 8619.4 | 11651.3 | 13459.6 | 14888.3 |
| 27.5° | 4132.9 | 4531.3 | 4611.5 | 4609.1 | 4625.6 | 5050.0 | 6068.5 | 8188.0 | 11799.8 | 13726.0 | 15091.0 |
| 30° | 2904.6 | 2939.9 | 2982.4 | 3064.9 | 3140.3 | 3519.9 | 4748.2 | 7188.3 | 11733.8 | 13846.2 | 15213.6 |
| 32.5° | 2095.9 | 2143.1 | 2202.0 | 2315.2 | 2494.3 | 2977.7 | 4154.1 | 6870.1 | 12082.7 | 14343.7 | 15572.0 |
| 35° | 1916.7 | 1971.0 | 2027.5 | 2157.2 | 2327.0 | 2774.9 | 3918.3 | 6738.0 | 12655.6 | 15150.0 | 16215.6 |
| 37.5° | 1860.2 | 1921.5 | 1971.0 | 2065.3 | 2202.0 | 2628.7 | 3703.8 | 6648.5 | 13242.7 | 16003.4 | 17078.5 |
| 40° | 1820.1 | 1890.8 | 1930.9 | 2006.3 | 2100.6 | 2494.3 | 3512.8 | 6577.7 | 13810.9 | 16783.8 | 17771.6 |
| 42.5° | 1784.7 | 1857.8 | 1909.7 | 1963.9 | 2041.7 | 2374.1 | 3343.1 | 6507.0 | 14303.6 | 17540.6 | 18462.4 |
| 45° | 1742.3 | 1834.2 | 1900.2 | 1942.7 | 2011.0 | 2272.7 | 3213.4 | 6450.4 | 14864.7 | 18212.5 | 19160.3 |
| 47.5° | 1706.9 | 1808.3 | 1890.8 | 1940.3 | 1966.2 | 2202.0 | 3109.7 | 6528.2 | 15539.0 | 18915.1 | 19808.6 |
| 50° | 1709.3 | 1805.9 | 1909.7 | 1987.5 | 1919.1 | 2143.1 | 3046.0 | 6837.1 | 16416.0 | 19749.7 | 20320.2 |
| 52.5° | 1784.7 | 1902.6 | 1985.1 | 2004.0 | 1853.1 | 2072.3 | 3013.0 | 7377.0 | 17453.4 | 20487.6 | 20836.5 |
| 55° | 1869.6 | 1992.2 | 2081.8 | 2070.0 | 1817.7 | 1982.7 | 3005.9 | 7952.2 | 18589.7 | 21348.1 | 21508.5 |
| 57.5° | 1838.9 | 2018.1 | 2154.9 | 2093.6 | 1820.1 | 1895.5 | 2975.3 | 8416.7 | 19539.9 | 21991.8 | 22173.3 |
| 58° | 1829.5 | 2008.7 | 2164.3 | 2088.8 | 1813.0 | 1869.6 | 2968.2 | 8456.7 | 19671.9 | 22036.6 | 22267.6 |
| 60° | 1737.6 | 1926.2 | 2157.2 | 2053.5 | 1772.9 | 1798.9 | 2890.4 | 8586.4 | 19636.5 | 21805.5 | 22324.2 |
| 62.5° | 1570.2 | 1725.8 | 1994.5 | 1881.4 | 1650.3 | 1704.6 | 2716.0 | 8426.1 | 18679.3 | 20692.7 | 21496.7 |
| 65° | 1381.6 | 1497.1 | 1676.3 | 1655.0 | 1475.9 | 1607.9 | 2477.8 | 7791.9 | 16762.6 | 18886.8 | 19733.2 |
| 67.5° | 1240.1 | 1334.4 | 1447.6 | 1416.9 | 1327.3 | 1478.2 | 2220.9 | 6719.2 | 14612.5 | 16717.8 | 17783.4 |
| 70° | 1096.3 | 1169.4 | 1226.0 | 1204.7 | 1176.4 | 1350.9 | 1992.2 | 5453.1 | 12551.9 | 14657.2 | 15689.9 |
| 72.5° | 950.1 | 1018.5 | 1065.6 | 1035.0 | 1018.5 | 1216.5 | 1805.9 | 4231.9 | 9913.7 | 12092.2 | 13419.5 |
| 75° | 794.5 | 862.9 | 895.9 | 860.5 | 851.1 | 1072.7 | 1530.1 | 3161.6 | 7438.3 | 9322.0 | 10467.8 |
| 77.5° | 615.3 | 688.4 | 730.9 | 719.1 | 723.8 | 881.7 | 1235.4 | 2164.3 | 5318.8 | 6353.8 | 7560.8 |
| 80° | 431.4 | 511.6 | 539.9 | 528.1 | 561.1 | 671.9 | 872.3 | 1374.5 | 3668.4 | 4123.5 | 4974.6 |
| 82.5° | 266.4 | 341.9 | 346.6 | 358.4 | 381.9 | 497.5 | 657.8 | 837.0 | 2303.4 | 2381.2 | 2998.9 |
| 85° | 134.4 | 162.7 | 174.5 | 193.3 | 214.5 | 304.1 | 374.9 | 518.7 | 1482.9 | 1122.2 | 1676.3 |
| 87.5° | 44.8 | 47.2 | 56.6 | 70.7 | 87.2 | 125.0 | 160.3 | 212.2 | 367.8 | 202.8 | 518.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 58° | 22163.9 | 24132.5 | 26468.9 | 27779.7 | 27402.5 | 24453.1 | 21878.6 | 22501.0 | 21779.6 | 21381.1 |
| 60° | 22109.6 | 23474.7 | 25495.2 | 26662.2 | 26266.1 | 23580.8 | 21789.0 | 22324.2 | 21421.2 | 21084.1 |
| 62.5° | 21607.5 | 22333.6 | 23814.2 | 24662.9 | 24549.8 | 22218.1 | 21421.2 | 21657.0 | 20329.7 | 20004.3 |
| 65° | 20947.3 | 20777.6 | 21661.7 | 22262.9 | 22347.8 | 21197.3 | 21055.8 | 20214.1 | 18929.2 | 18469.5 |
| 67.5° | 20145.8 | 19014.1 | 19011.7 | 19353.6 | 19495.1 | 19627.1 | 20294.3 | 18646.3 | 16911.1 | 16425.5 |
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| 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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