

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: P847863

Luminaire Tested: **GLAN-SB4A-930-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4A-930-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12023 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

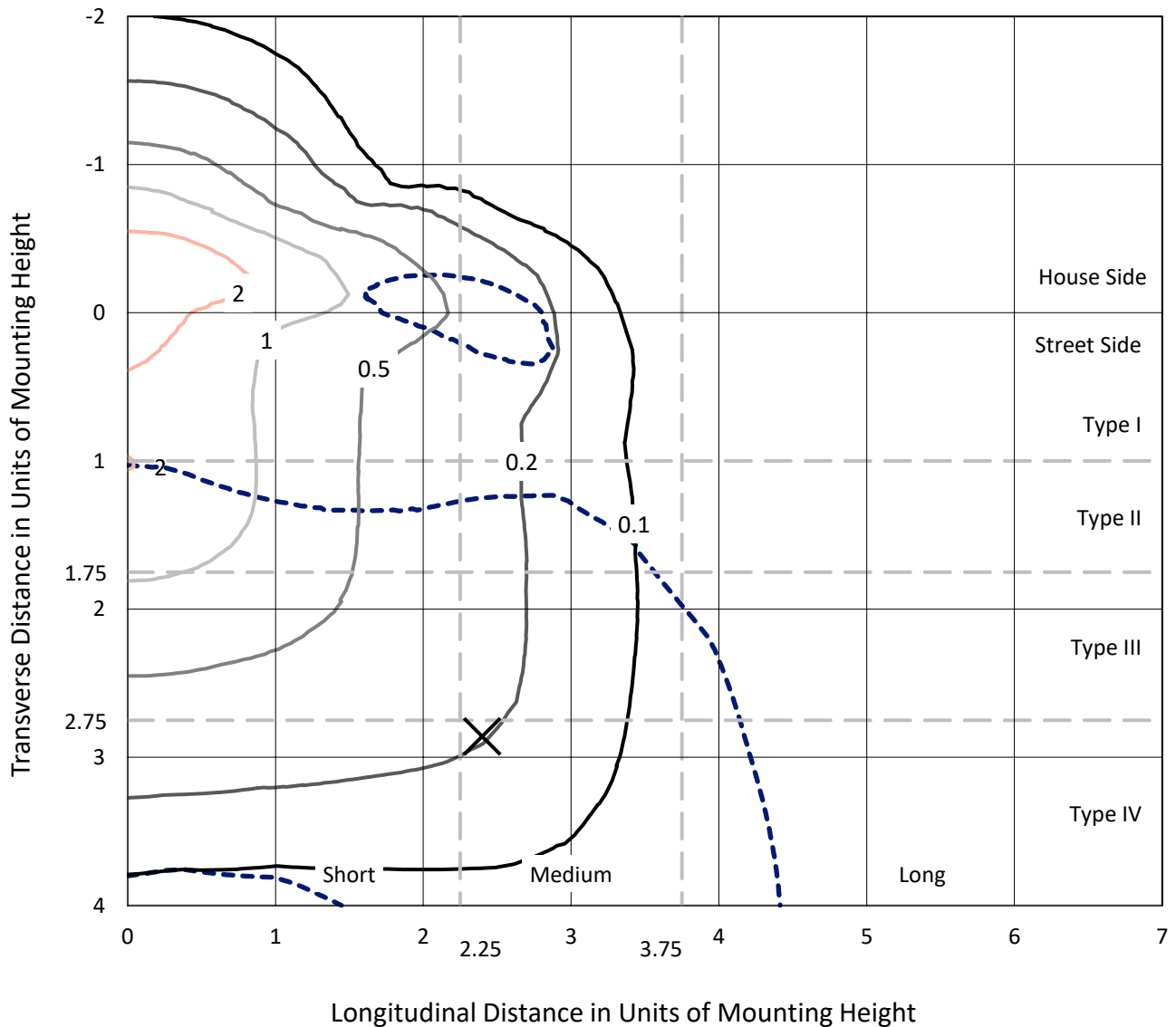
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

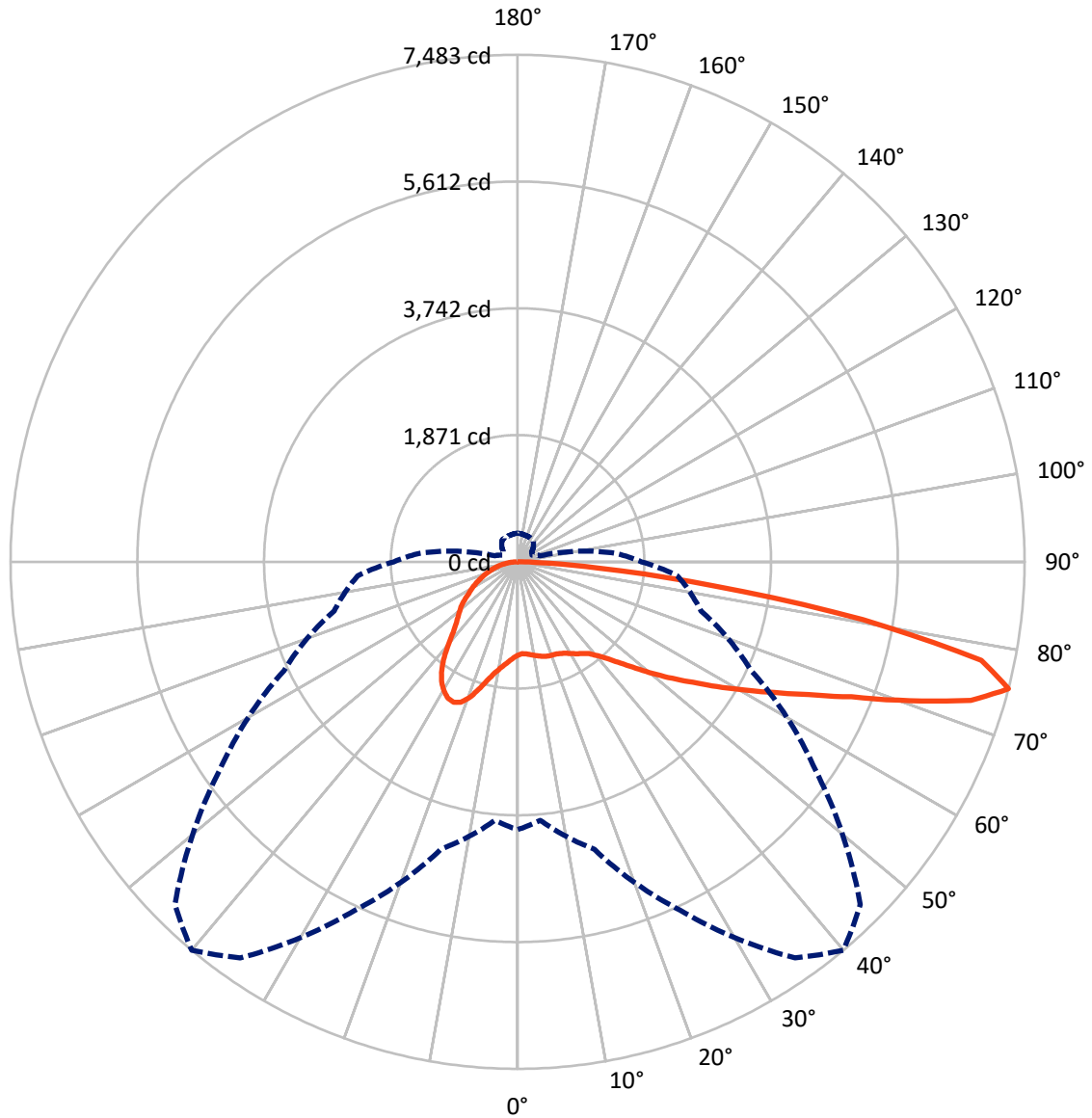
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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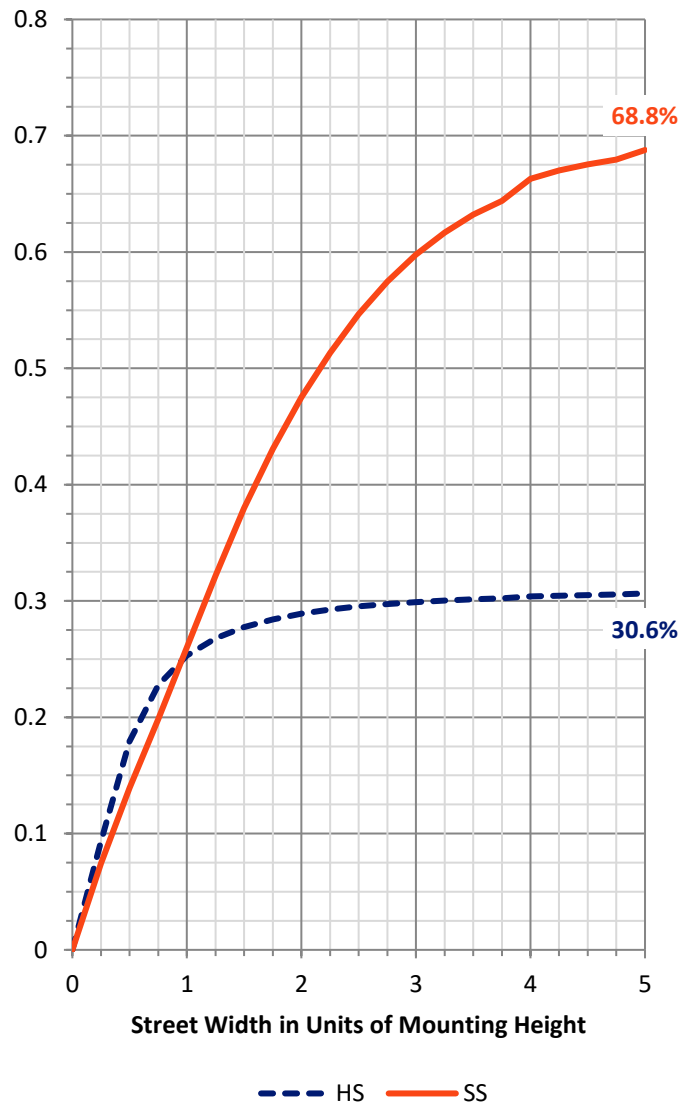
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3725.1 | 0.0 | 3725.1 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 8297.9 | 0.0 | 8297.9 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 12023.0 | 0.0 | 12023.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 137.2 | 1.1 |
| 10°-20° | 460.8 | 3.8 |
| 20°-30° | 841.3 | 7.0 |
| 30°-40° | 1193.2 | 9.9 |
| 40°-50° | 1611.2 | 13.4 |
| 50°-60° | 2167.5 | 18.0 |
| 60°-70° | 2751.1 | 22.9 |
| 70°-80° | 2496.8 | 20.8 |
| 80°-90° | 363.9 | 3.0 |
| 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° | 12023.0 | 100.0 |
| 0°-180° | 12023.0 | 100.0 |

Coefficient of Utilization

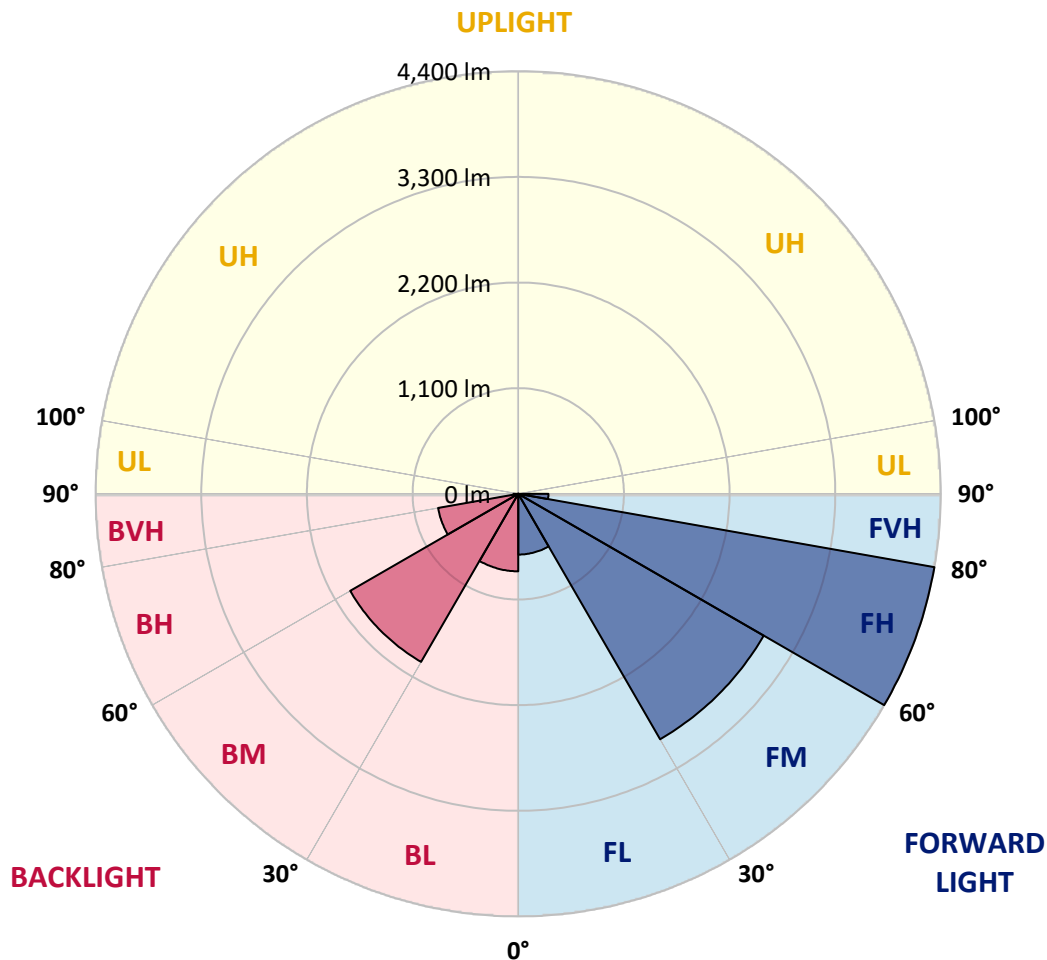


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 632.4 | 5.3 | | | |
| FM (30°-60°) | 2951.4 | 24.5 | | | |
| FH (60°-80°) | 4400.2 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 313.8 | 2.6 | | | G3/500 |
| BL (0°-30°) | 806.9 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 2020.5 | 16.8 | B2/2500 | | |
| BH (60°-80°) | 847.6 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 50.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 |
| 2.5° | 1353.8 | 1361.5 | 1359.5 | 1357.0 | 1357.0 | 1357.6 | 1357.0 | 1361.5 | 1365.9 | 1370.4 |
| 5° | 1367.8 | 1375.5 | 1371.7 | 1368.5 | 1365.9 | 1365.3 | 1363.4 | 1362.7 | 1365.3 | 1371.0 |
| 7.5° | 1395.3 | 1402.9 | 1397.2 | 1391.4 | 1386.3 | 1383.8 | 1381.2 | 1377.4 | 1375.5 | 1378.7 |
| 10° | 1425.9 | 1433.5 | 1426.5 | 1416.3 | 1408.0 | 1404.8 | 1402.3 | 1398.4 | 1395.9 | 1397.8 |
| 12.5° | 1456.5 | 1464.1 | 1454.6 | 1440.5 | 1429.7 | 1427.8 | 1424.6 | 1423.3 | 1422.7 | 1422.0 |
| 15° | 1485.2 | 1491.5 | 1479.4 | 1462.8 | 1451.4 | 1448.2 | 1445.0 | 1446.9 | 1450.1 | 1453.9 |
| 17.5° | 1507.5 | 1513.9 | 1496.0 | 1474.3 | 1463.5 | 1462.2 | 1460.3 | 1466.7 | 1475.6 | 1485.2 |
| 20° | 1527.9 | 1534.3 | 1511.3 | 1482.0 | 1469.2 | 1469.2 | 1469.9 | 1483.3 | 1496.0 | 1510.0 |
| 22.5° | 1556.6 | 1561.7 | 1533.6 | 1493.5 | 1475.0 | 1476.2 | 1481.3 | 1494.7 | 1510.7 | 1529.8 |
| 25° | 1599.3 | 1603.1 | 1568.7 | 1515.1 | 1494.1 | 1497.9 | 1502.4 | 1508.8 | 1524.1 | 1546.4 |
| 27.5° | 1668.2 | 1671.4 | 1626.1 | 1553.4 | 1521.5 | 1527.9 | 1534.3 | 1529.8 | 1536.8 | 1555.9 |
| 30° | 1765.1 | 1767.0 | 1709.6 | 1613.3 | 1568.1 | 1571.3 | 1572.5 | 1554.0 | 1540.6 | 1555.9 |
| 32.5° | 1879.9 | 1879.3 | 1811.0 | 1686.0 | 1621.0 | 1617.8 | 1607.0 | 1570.6 | 1539.4 | 1552.8 |
| 35° | 2057.8 | 2050.8 | 1962.8 | 1788.1 | 1680.9 | 1661.2 | 1635.7 | 1589.1 | 1545.7 | 1549.6 |
| 37.5° | 2352.4 | 2330.7 | 2208.9 | 1955.1 | 1770.2 | 1719.8 | 1682.2 | 1619.1 | 1559.8 | 1548.3 |
| 40° | 2684.6 | 2657.2 | 2523.3 | 2184.1 | 1904.1 | 1823.1 | 1762.6 | 1661.8 | 1582.7 | 1554.0 |
| 42.5° | 3078.7 | 3039.8 | 2895.7 | 2453.8 | 2073.7 | 1956.4 | 1865.2 | 1716.0 | 1616.5 | 1572.5 |
| 45° | 3562.7 | 3511.1 | 3307.0 | 2758.0 | 2287.4 | 2131.1 | 2009.3 | 1798.3 | 1668.2 | 1608.2 |
| 47.5° | 4051.8 | 4064.6 | 3774.4 | 3106.2 | 2543.7 | 2346.7 | 2189.8 | 1922.0 | 1743.4 | 1665.6 |
| 50° | 4571.6 | 4580.5 | 4239.3 | 3492.0 | 2834.5 | 2590.3 | 2392.6 | 2060.4 | 1848.0 | 1747.3 |
| 52.5° | 4977.1 | 4978.4 | 4661.5 | 3895.6 | 3137.4 | 2858.1 | 2611.3 | 2218.5 | 1969.2 | 1855.7 |
| 55° | 5230.9 | 5227.7 | 4957.4 | 4277.6 | 3485.6 | 3139.3 | 2853.6 | 2398.3 | 2117.1 | 1983.2 |
| 57.5° | 5415.2 | 5405.6 | 5161.4 | 4606.0 | 3856.7 | 3471.6 | 3127.8 | 2602.4 | 2291.8 | 2135.0 |
| 60° | 5485.4 | 5479.6 | 5299.8 | 4889.8 | 4247.0 | 3838.9 | 3444.1 | 2830.7 | 2490.2 | 2314.2 |
| 62.5° | 5512.1 | 5523.0 | 5435.6 | 5164.6 | 4664.7 | 4245.7 | 3791.7 | 3103.6 | 2713.3 | 2516.9 |
| 65° | 5606.5 | 5626.3 | 5608.4 | 5524.3 | 5136.5 | 4722.0 | 4252.7 | 3428.2 | 2956.9 | 2734.4 |
| 67.5° | 5793.4 | 5813.1 | 5820.8 | 5954.7 | 5713.0 | 5315.7 | 4827.9 | 3832.5 | 3242.0 | 2960.1 |
| 70° | 5788.9 | 5783.2 | 5918.3 | 6297.1 | 6434.9 | 6137.7 | 5603.3 | 4329.9 | 3581.9 | 3147.6 |
| 72.5° | 5269.2 | 5223.3 | 5542.7 | 6293.3 | 7035.6 | 6996.0 | 6550.3 | 4971.4 | 3875.2 | 3170.6 |
| 75° | 3953.0 | 3830.6 | 4394.9 | 5671.6 | 7135.7 | 7483.2 | 7152.3 | 5369.3 | 3805.7 | 2801.3 |
| 77.5° | 1690.5 | 1567.4 | 2232.5 | 4198.5 | 6386.4 | 6995.4 | 6600.0 | 4684.4 | 3037.9 | 1852.5 |
| 80° | 442.6 | 441.9 | 674.7 | 1903.5 | 4343.3 | 5165.9 | 4532.0 | 3025.2 | 1735.8 | 661.9 |
| 82.5° | 183.0 | 178.6 | 248.1 | 740.4 | 2122.2 | 2898.9 | 2365.8 | 1349.3 | 626.8 | 179.2 |
| 85° | 68.2 | 67.6 | 120.5 | 255.7 | 748.6 | 1195.7 | 865.3 | 345.0 | 156.2 | 87.4 |
| 87.5° | 19.1 | 18.5 | 26.1 | 88.6 | 182.4 | 276.8 | 147.9 | 56.8 | 44.0 | 34.4 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1374.8 | 0° | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 | 1374.8 |
| 1377.4 | 2.5° | 1379.3 | 1382.5 | 1388.2 | 1392.7 | 1398.4 | 1404.8 | 1413.7 | 1419.5 | 1425.2 | 1429.0 |
| 1380.6 | 5° | 1385.0 | 1392.1 | 1406.7 | 1421.4 | 1438.6 | 1454.6 | 1473.0 | 1486.4 | 1497.3 | 1500.5 |
| 1392.1 | 7.5° | 1397.8 | 1409.3 | 1434.2 | 1459.0 | 1486.4 | 1512.6 | 1539.4 | 1562.3 | 1580.8 | 1587.8 |
| 1412.5 | 10° | 1420.1 | 1435.4 | 1470.5 | 1505.6 | 1541.9 | 1582.1 | 1616.5 | 1649.7 | 1675.8 | 1686.7 |
| 1436.7 | 12.5° | 1448.2 | 1467.3 | 1513.2 | 1561.7 | 1612.1 | 1667.5 | 1712.2 | 1753.0 | 1785.5 | 1800.2 |
| 1470.5 | 15° | 1484.5 | 1509.4 | 1568.1 | 1633.1 | 1707.1 | 1784.2 | 1841.0 | 1886.3 | 1922.6 | 1940.5 |
| 1505.6 | 17.5° | 1524.1 | 1557.2 | 1631.2 | 1729.4 | 1835.3 | 1936.6 | 2003.0 | 2036.1 | 2073.7 | 2091.0 |
| 1538.1 | 20° | 1562.3 | 1603.1 | 1709.0 | 1851.8 | 1992.8 | 2100.5 | 2154.1 | 2163.0 | 2165.6 | 2167.5 |
| 1568.7 | 22.5° | 1601.9 | 1656.7 | 1806.6 | 2006.2 | 2157.3 | 2231.9 | 2239.5 | 2201.3 | 2147.7 | 2122.8 |
| 1598.7 | 25° | 1645.2 | 1717.9 | 1934.1 | 2176.4 | 2298.8 | 2307.8 | 2249.1 | 2156.0 | 2054.6 | 2008.1 |
| 1622.9 | 27.5° | 1687.3 | 1788.7 | 2087.1 | 2339.0 | 2400.9 | 2322.4 | 2196.2 | 2064.2 | 1941.7 | 1892.6 |
| 1640.1 | 30° | 1729.4 | 1869.7 | 2256.1 | 2481.2 | 2447.4 | 2286.1 | 2112.6 | 1965.3 | 1842.3 | 1790.6 |
| 1655.4 | 32.5° | 1772.1 | 1964.1 | 2450.6 | 2583.9 | 2439.1 | 2208.9 | 2008.7 | 1854.4 | 1746.0 | 1691.8 |
| 1668.8 | 35° | 1820.6 | 2080.1 | 2634.9 | 2640.0 | 2383.7 | 2095.4 | 1871.6 | 1721.7 | 1627.4 | 1584.0 |
| 1684.8 | 37.5° | 1883.7 | 2227.4 | 2797.5 | 2654.0 | 2286.7 | 1929.0 | 1701.3 | 1564.9 | 1487.1 | 1467.3 |
| 1708.4 | 40° | 1962.2 | 2404.7 | 2921.9 | 2631.7 | 2143.3 | 1726.8 | 1515.1 | 1406.1 | 1362.1 | 1366.6 |
| 1740.2 | 42.5° | 2064.2 | 2603.0 | 3009.2 | 2574.3 | 1943.7 | 1518.3 | 1351.9 | 1303.4 | 1324.5 | 1342.3 |
| 1788.1 | 45° | 2196.8 | 2809.0 | 3063.4 | 2476.8 | 1717.9 | 1341.7 | 1255.6 | 1267.1 | 1283.0 | 1284.9 |
| 1865.2 | 47.5° | 2366.4 | 3017.5 | 3099.1 | 2329.5 | 1487.7 | 1217.3 | 1194.4 | 1196.9 | 1193.7 | 1180.4 |
| 1980.6 | 50° | 2578.2 | 3220.3 | 3131.0 | 2134.3 | 1291.9 | 1139.5 | 1108.9 | 1100.0 | 1056.0 | 1012.6 |
| 2134.3 | 52.5° | 2819.2 | 3406.5 | 3144.4 | 1892.0 | 1139.5 | 1074.5 | 1024.8 | 968.6 | 886.4 | 873.0 |
| 2327.5 | 55° | 3087.0 | 3578.7 | 3110.0 | 1594.2 | 1011.4 | 991.0 | 915.7 | 848.1 | 839.2 | 827.7 |
| 2582.0 | 57.5° | 3407.1 | 3764.2 | 3039.8 | 1262.0 | 880.0 | 893.4 | 820.1 | 827.7 | 811.8 | 793.9 |
| 2909.1 | 60° | 3757.2 | 3956.2 | 2916.8 | 959.1 | 744.2 | 771.6 | 795.2 | 794.6 | 790.1 | 775.4 |
| 3254.1 | 62.5° | 4072.2 | 4082.5 | 2674.4 | 734.6 | 624.9 | 677.2 | 741.6 | 741.0 | 737.2 | 728.9 |
| 3614.4 | 65° | 4259.7 | 4063.3 | 2270.2 | 578.4 | 526.7 | 599.4 | 668.9 | 674.0 | 674.7 | 674.0 |
| 3885.4 | 67.5° | 4226.6 | 3839.5 | 1715.4 | 460.4 | 445.7 | 520.3 | 596.9 | 603.9 | 609.0 | 610.3 |
| 3919.8 | 70° | 3851.6 | 3347.8 | 1118.5 | 367.3 | 373.7 | 450.8 | 528.6 | 535.7 | 540.1 | 545.2 |
| 3401.4 | 72.5° | 3002.2 | 2461.5 | 640.2 | 297.2 | 310.6 | 390.9 | 461.0 | 469.3 | 471.9 | 481.5 |
| 2367.1 | 75° | 1829.5 | 1447.5 | 345.6 | 234.0 | 255.1 | 334.1 | 394.1 | 403.7 | 408.1 | 419.6 |
| 1162.5 | 77.5° | 869.8 | 626.8 | 197.0 | 182.4 | 205.3 | 272.9 | 332.9 | 343.7 | 331.6 | 338.0 |
| 320.8 | 80° | 294.0 | 232.8 | 124.3 | 139.0 | 156.9 | 213.0 | 266.6 | 277.4 | 251.9 | 250.6 |
| 106.5 | 82.5° | 102.7 | 94.4 | 79.1 | 92.5 | 101.4 | 152.4 | 201.5 | 215.5 | 187.5 | 186.8 |
| 47.8 | 85° | 40.2 | 38.3 | 44.0 | 50.4 | 60.6 | 93.7 | 132.6 | 139.7 | 115.4 | 93.1 |
| 14.0 | 87.5° | 8.3 | 8.9 | 10.8 | 11.5 | 18.5 | 32.5 | 47.8 | 58.7 | 46.6 | 39.5 |
| 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° |
|--------|
| 1374.8 |
| 1426.5 |
| 1501.7 |
| 1588.5 |
| 1687.3 |
| 1800.2 |
| 1939.2 |
| 2090.3 |
| 2172.6 |
| 2129.9 |
| 2015.1 |
| 1898.4 |
| 1796.4 |
| 1698.8 |
| 1593.6 |
| 1481.3 |
| 1381.9 |
| 1358.9 |
| 1297.7 |
| 1190.6 |
| 1018.4 |
| 877.5 |
| 829.6 |
| 790.7 |
| 770.3 |
| 725.7 |
| 674.0 |
| 611.5 |
| 547.8 |
| 485.3 |
| 420.9 |
| 332.9 |
| 248.1 |
| 177.9 |
| 91.8 |
| 36.3 |
| 0.0 |

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