

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: McGRAW-EDISON

Report Number: P948714

Luminaire Tested: **GALN-SB3C-935-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-935-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15601 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

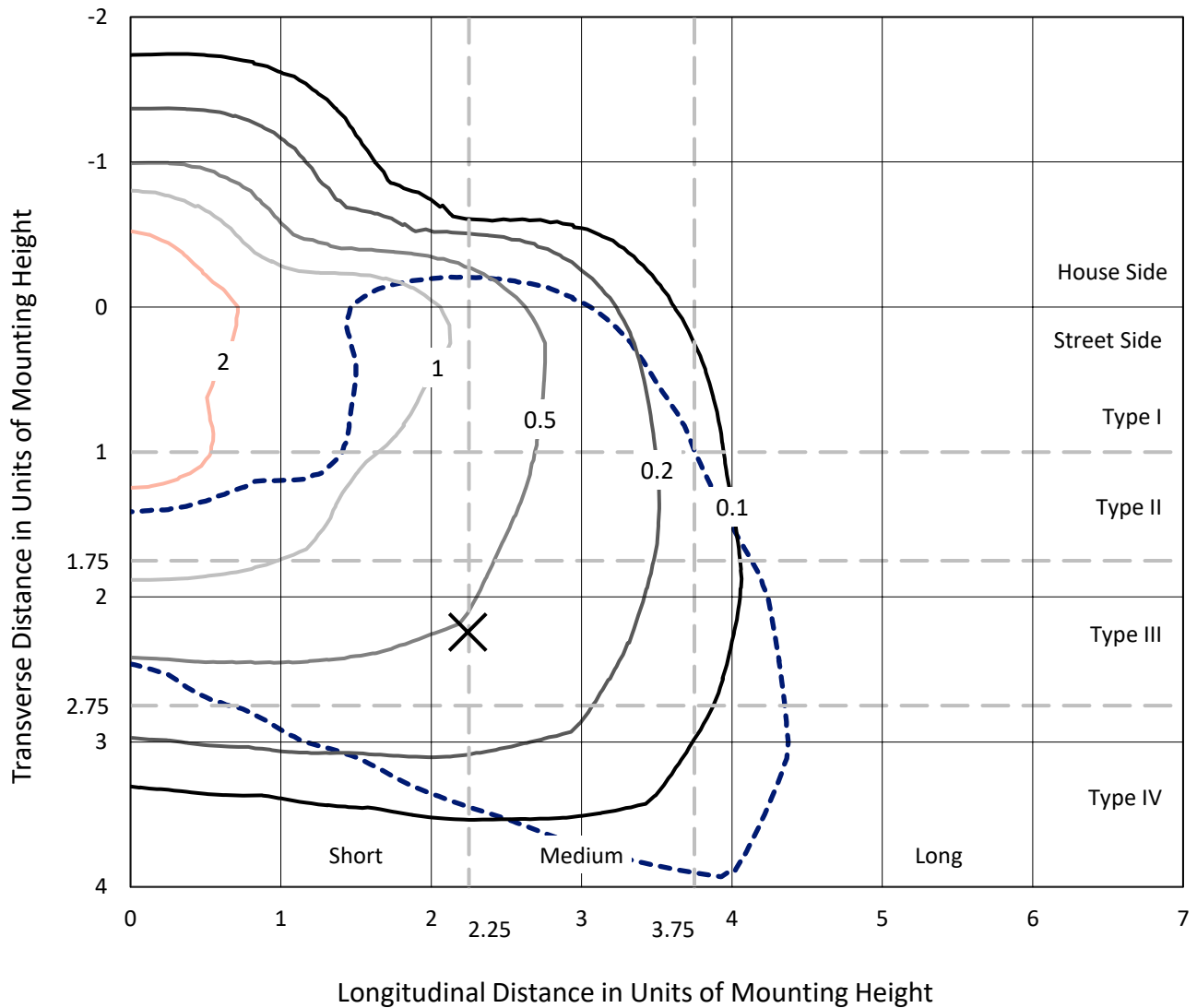
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

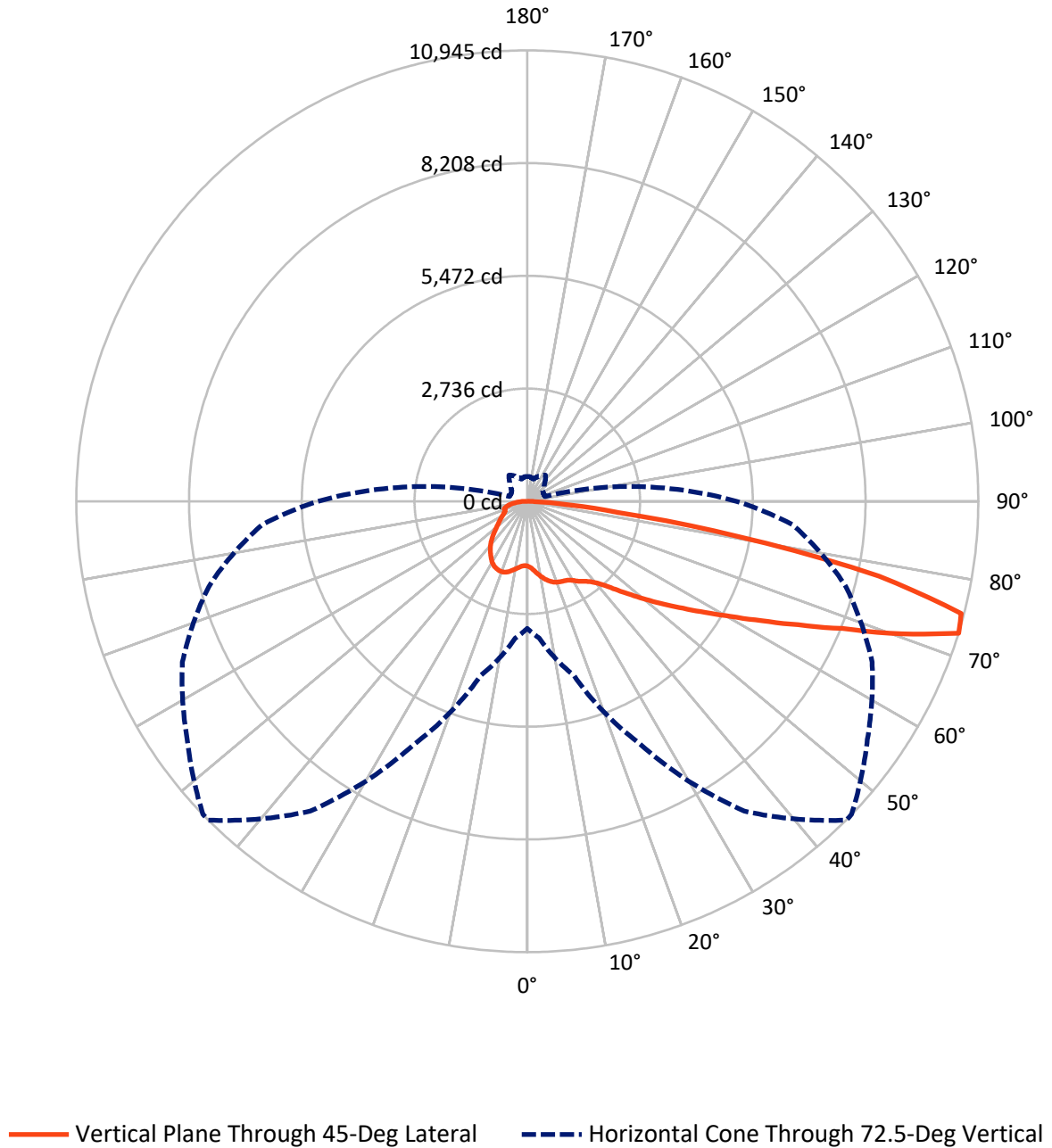
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3526.9 | 0.0 | 3526.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 12074.2 | 0.0 | 12074.2 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 15601.0 | 0.0 | 15601.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.2 | 1.0 |
| 10°-20° | 534.1 | 3.4 |
| 20°-30° | 929.1 | 6.0 |
| 30°-40° | 1331.9 | 8.5 |
| 40°-50° | 1875.3 | 12.0 |
| 50°-60° | 2872.5 | 18.4 |
| 60°-70° | 4161.2 | 26.7 |
| 70°-80° | 3323.0 | 21.3 |
| 80°-90° | 413.9 | 2.7 |
| 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° | 15601.0 | 100.0 |
| 0°-180° | 15601.0 | 100.0 |



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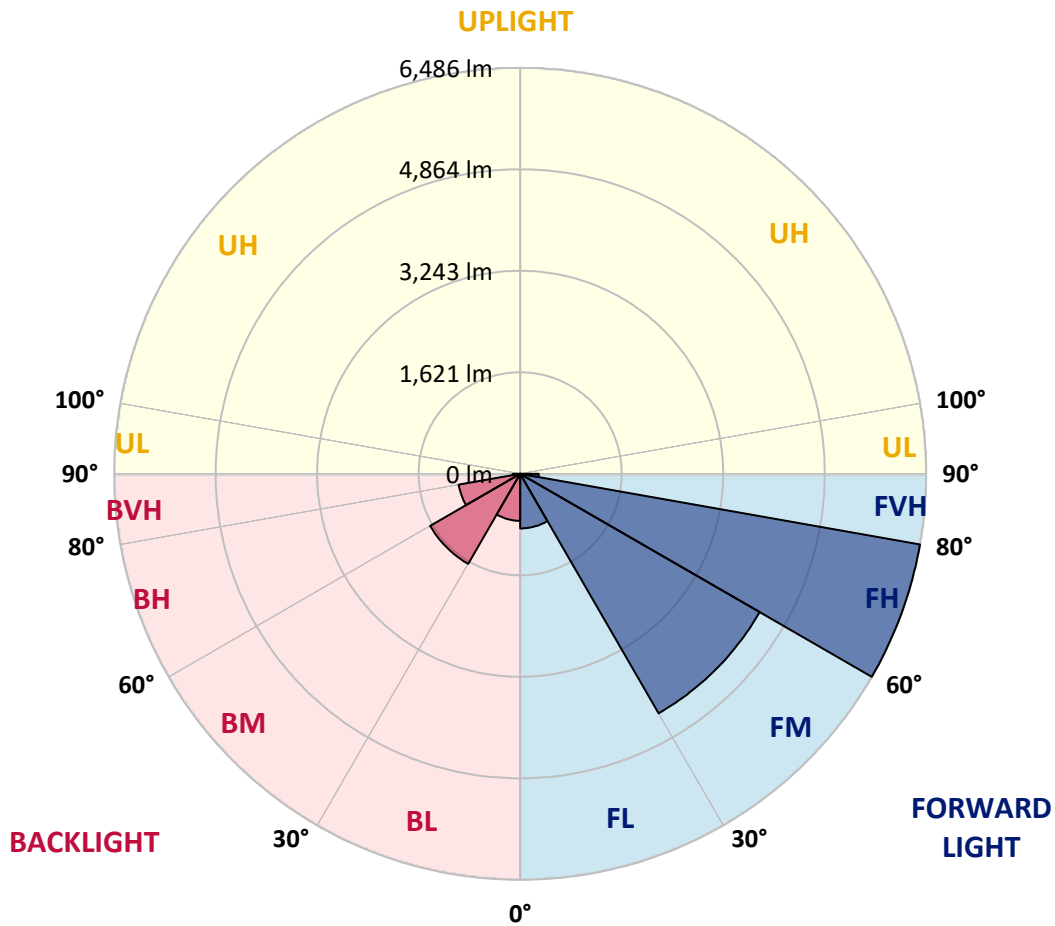
CATALOG NUMBER: GALN-SB3C-935-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 872.4 | 5.6 | | | |
| FM (30°-60°) | 4419.0 | 28.3 | | | |
| FH (60°-80°) | 6485.8 | 41.6 | | | G3/7500 |
| FVH (80°-90°) | 296.9 | 1.9 | | | G3/500 |
| BL (0°-30°) | 750.9 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1660.6 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 998.4 | 6.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 117.0 | 0.7 | | | G2/225 |
| 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 |
| 2.5° | 1635.5 | 1646.2 | 1636.3 | 1627.3 | 1623.1 | 1612.5 | 1611.6 | 1605.1 | 1601.0 | 1589.5 |
| 5° | 1749.7 | 1763.7 | 1747.2 | 1729.2 | 1712.7 | 1686.4 | 1683.1 | 1664.2 | 1642.9 | 1618.2 |
| 7.5° | 1878.7 | 1891.1 | 1872.2 | 1845.0 | 1816.3 | 1772.7 | 1771.9 | 1737.4 | 1703.7 | 1661.8 |
| 10° | 1991.3 | 2007.8 | 1982.3 | 1945.3 | 1909.2 | 1859.8 | 1854.1 | 1814.6 | 1771.9 | 1717.7 |
| 12.5° | 2090.8 | 2102.3 | 2077.6 | 2032.4 | 1990.5 | 1941.2 | 1933.8 | 1890.2 | 1842.6 | 1780.9 |
| 15° | 2169.7 | 2184.5 | 2151.6 | 2103.1 | 2058.7 | 2010.2 | 2003.7 | 1964.2 | 1916.5 | 1851.6 |
| 17.5° | 2221.5 | 2233.8 | 2200.1 | 2145.8 | 2103.1 | 2062.8 | 2057.9 | 2025.0 | 1983.1 | 1917.4 |
| 20° | 2241.2 | 2254.3 | 2219.0 | 2163.9 | 2124.5 | 2093.2 | 2090.8 | 2066.9 | 2038.2 | 1978.2 |
| 22.5° | 2260.9 | 2273.2 | 2227.2 | 2169.7 | 2135.2 | 2115.4 | 2114.6 | 2099.0 | 2087.5 | 2038.2 |
| 25° | 2340.6 | 2343.9 | 2282.3 | 2199.3 | 2150.0 | 2132.7 | 2131.9 | 2131.0 | 2136.0 | 2097.4 |
| 27.5° | 2409.7 | 2408.8 | 2356.2 | 2278.2 | 2201.7 | 2165.6 | 2164.7 | 2173.0 | 2188.6 | 2156.5 |
| 30° | 2510.7 | 2501.7 | 2439.2 | 2357.9 | 2288.0 | 2232.1 | 2227.2 | 2219.8 | 2232.1 | 2206.7 |
| 32.5° | 2725.2 | 2696.5 | 2595.4 | 2450.7 | 2359.5 | 2316.8 | 2310.2 | 2264.2 | 2269.1 | 2253.5 |
| 35° | 3032.6 | 2994.8 | 2860.0 | 2626.6 | 2448.3 | 2387.5 | 2384.2 | 2325.8 | 2316.0 | 2302.0 |
| 37.5° | 3398.3 | 3351.5 | 3194.5 | 2881.4 | 2601.1 | 2469.7 | 2464.7 | 2412.1 | 2371.9 | 2357.1 |
| 40° | 3765.7 | 3706.5 | 3576.7 | 3192.1 | 2826.3 | 2606.9 | 2591.3 | 2511.6 | 2465.5 | 2440.9 |
| 42.5° | 4122.4 | 4073.1 | 3962.1 | 3540.5 | 3104.1 | 2807.4 | 2772.9 | 2636.5 | 2602.0 | 2579.0 |
| 45° | 4438.0 | 4393.6 | 4312.2 | 3912.8 | 3429.6 | 3080.3 | 3046.6 | 2823.9 | 2813.2 | 2813.2 |
| 47.5° | 4694.4 | 4684.5 | 4598.2 | 4292.5 | 3813.4 | 3390.9 | 3332.6 | 3084.4 | 3113.2 | 3157.5 |
| 50° | 4978.7 | 4951.6 | 4859.6 | 4666.4 | 4264.6 | 3746.8 | 3699.1 | 3404.1 | 3511.8 | 3633.4 |
| 52.5° | 5240.1 | 5254.9 | 5152.2 | 5056.0 | 4774.1 | 4143.8 | 4059.9 | 3781.3 | 4013.9 | 4215.3 |
| 55° | 5508.8 | 5509.7 | 5480.9 | 5467.7 | 5308.3 | 4582.6 | 4490.6 | 4235.0 | 4604.8 | 4854.7 |
| 57.5° | 5761.1 | 5762.8 | 5805.5 | 5921.4 | 5928.0 | 5088.9 | 4984.5 | 4792.2 | 5261.5 | 5516.2 |
| 60° | 5986.3 | 5997.8 | 6114.5 | 6385.8 | 6472.9 | 5669.1 | 5570.5 | 5450.5 | 5940.3 | 6196.7 |
| 62.5° | 6061.9 | 6103.9 | 6363.6 | 6749.0 | 7011.2 | 6380.8 | 6283.8 | 6212.3 | 6653.7 | 6892.0 |
| 65° | 5933.7 | 6029.9 | 6532.0 | 7049.0 | 7565.1 | 7226.5 | 7130.3 | 7052.3 | 7395.0 | 7619.3 |
| 67.5° | 5619.0 | 5743.1 | 6522.2 | 7363.8 | 8237.4 | 8243.9 | 8154.4 | 7971.1 | 8189.7 | 8276.0 |
| 70° | 4789.7 | 4975.5 | 5947.7 | 7481.3 | 9009.1 | 9635.3 | 9549.0 | 9077.3 | 8982.8 | 8565.3 |
| 72.5° | 3086.0 | 3335.9 | 4379.6 | 6514.0 | 9180.9 | 10944.5 | 10939.6 | 10075.8 | 9233.5 | 8003.1 |
| 75° | 1125.9 | 1278.8 | 2034.9 | 4088.7 | 7706.5 | 10878.0 | 10910.0 | 9904.9 | 8428.9 | 6181.9 |
| 77.5° | 410.1 | 448.7 | 664.1 | 1571.4 | 4739.6 | 8728.0 | 8794.6 | 7918.5 | 5999.5 | 3102.5 |
| 80° | 215.3 | 236.7 | 340.2 | 609.8 | 2030.8 | 5183.4 | 5287.8 | 4705.9 | 2819.8 | 934.4 |
| 82.5° | 119.2 | 129.0 | 190.7 | 331.2 | 914.7 | 2216.5 | 2279.0 | 1859.0 | 992.0 | 396.1 |
| 85° | 64.1 | 68.2 | 89.6 | 180.8 | 447.1 | 768.4 | 785.7 | 555.6 | 395.3 | 232.6 |
| 87.5° | 18.9 | 23.0 | 29.6 | 57.5 | 175.1 | 172.6 | 176.7 | 110.1 | 156.2 | 117.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1573.8 | 0° | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 | 1573.8 |
| 1586.2 | 2.5° | 1581.2 | 1578.8 | 1569.7 | 1565.6 | 1560.7 | 1559.9 | 1564.0 | 1564.8 | 1565.6 | 1566.4 |
| 1604.2 | 5° | 1596.0 | 1587.8 | 1579.6 | 1574.7 | 1576.3 | 1577.1 | 1585.3 | 1591.1 | 1595.2 | 1598.5 |
| 1637.9 | 7.5° | 1624.8 | 1618.2 | 1604.2 | 1603.4 | 1605.9 | 1613.3 | 1624.0 | 1637.1 | 1644.5 | 1650.3 |
| 1681.5 | 10° | 1667.5 | 1655.2 | 1638.8 | 1641.2 | 1646.2 | 1656.8 | 1679.0 | 1689.7 | 1702.0 | 1712.7 |
| 1734.9 | 12.5° | 1711.1 | 1700.4 | 1681.5 | 1683.1 | 1691.4 | 1710.3 | 1731.6 | 1744.8 | 1753.0 | 1761.2 |
| 1792.4 | 15° | 1767.8 | 1748.9 | 1728.3 | 1728.3 | 1743.1 | 1763.7 | 1773.5 | 1784.2 | 1789.2 | 1798.2 |
| 1854.1 | 17.5° | 1826.1 | 1801.5 | 1774.4 | 1772.7 | 1790.8 | 1800.7 | 1806.4 | 1808.1 | 1809.7 | 1819.6 |
| 1914.1 | 20° | 1884.5 | 1857.4 | 1818.7 | 1815.5 | 1819.6 | 1817.9 | 1817.1 | 1815.5 | 1817.9 | 1830.3 |
| 1975.7 | 22.5° | 1942.0 | 1910.8 | 1857.4 | 1842.6 | 1831.1 | 1815.5 | 1814.6 | 1813.8 | 1815.5 | 1827.8 |
| 2042.3 | 25° | 2009.4 | 1971.6 | 1900.1 | 1855.7 | 1817.1 | 1795.7 | 1798.2 | 1799.0 | 1800.7 | 1810.5 |
| 2111.3 | 27.5° | 2082.6 | 2040.6 | 1939.6 | 1851.6 | 1781.8 | 1767.0 | 1762.9 | 1765.3 | 1771.1 | 1786.7 |
| 2180.4 | 30° | 2155.7 | 2106.4 | 1975.7 | 1835.2 | 1737.4 | 1716.8 | 1703.7 | 1709.4 | 1727.5 | 1743.1 |
| 2240.4 | 32.5° | 2222.3 | 2173.0 | 2004.5 | 1799.0 | 1680.7 | 1648.6 | 1631.4 | 1638.8 | 1656.8 | 1662.6 |
| 2306.9 | 35° | 2300.4 | 2244.5 | 2016.8 | 1741.5 | 1619.0 | 1569.7 | 1546.7 | 1536.0 | 1545.1 | 1539.3 |
| 2385.0 | 37.5° | 2387.5 | 2329.1 | 2015.2 | 1665.9 | 1546.7 | 1490.0 | 1458.0 | 1417.7 | 1398.8 | 1379.1 |
| 2500.1 | 40° | 2516.5 | 2432.7 | 1995.4 | 1574.7 | 1457.1 | 1405.4 | 1347.8 | 1279.6 | 1236.9 | 1198.3 |
| 2685.8 | 42.5° | 2692.4 | 2576.5 | 1959.3 | 1474.4 | 1356.0 | 1307.6 | 1229.5 | 1149.8 | 1082.4 | 1018.3 |
| 2967.7 | 45° | 2954.5 | 2764.7 | 1914.1 | 1367.6 | 1246.7 | 1199.1 | 1114.4 | 1024.8 | 948.4 | 866.2 |
| 3367.9 | 47.5° | 3332.6 | 3017.8 | 1871.3 | 1245.9 | 1131.7 | 1088.1 | 1011.7 | 928.7 | 838.3 | 758.6 |
| 3946.5 | 50° | 3852.0 | 3381.1 | 1831.9 | 1127.6 | 1018.3 | 985.4 | 924.6 | 839.9 | 748.7 | 684.6 |
| 4624.5 | 52.5° | 4512.8 | 3875.0 | 1815.5 | 1013.3 | 912.3 | 899.9 | 851.4 | 772.5 | 686.2 | 632.0 |
| 5415.2 | 55° | 5271.3 | 4465.9 | 1815.5 | 904.0 | 819.4 | 823.5 | 789.8 | 716.7 | 641.9 | 593.4 |
| 6230.4 | 57.5° | 6045.5 | 5064.2 | 1782.6 | 802.9 | 740.5 | 757.7 | 736.4 | 672.3 | 604.9 | 554.7 |
| 7087.6 | 60° | 6758.9 | 5565.5 | 1649.4 | 710.9 | 670.6 | 697.7 | 683.8 | 628.7 | 546.5 | 504.6 |
| 7804.3 | 62.5° | 7307.0 | 5848.3 | 1393.0 | 637.8 | 613.1 | 644.3 | 636.9 | 571.2 | 535.8 | 518.6 |
| 8392.7 | 65° | 7581.5 | 5802.2 | 1065.1 | 572.8 | 564.6 | 613.1 | 597.5 | 595.0 | 567.1 | 547.4 |
| 8584.2 | 67.5° | 7413.1 | 5406.1 | 772.5 | 525.2 | 536.7 | 584.3 | 644.3 | 654.2 | 602.4 | 563.8 |
| 8045.1 | 70° | 6674.2 | 4689.5 | 575.3 | 480.0 | 501.3 | 585.2 | 734.7 | 684.6 | 590.9 | 545.7 |
| 6452.3 | 72.5° | 5077.4 | 3497.0 | 446.3 | 432.3 | 455.3 | 589.3 | 775.0 | 670.6 | 558.0 | 603.2 |
| 4019.7 | 75° | 2903.6 | 1919.8 | 358.3 | 373.9 | 397.8 | 550.6 | 754.5 | 634.5 | 532.6 | 553.9 |
| 1592.7 | 77.5° | 1107.0 | 738.0 | 295.9 | 316.4 | 319.7 | 480.8 | 721.6 | 632.0 | 507.1 | 494.8 |
| 477.5 | 80° | 383.8 | 288.5 | 244.9 | 251.5 | 247.4 | 427.4 | 692.0 | 549.8 | 415.0 | 371.5 |
| 197.2 | 82.5° | 157.0 | 143.8 | 194.0 | 185.7 | 175.9 | 332.0 | 558.9 | 449.6 | 339.4 | 300.0 |
| 95.3 | 85° | 68.2 | 91.2 | 128.2 | 112.6 | 101.9 | 230.1 | 447.9 | 380.5 | 286.8 | 247.4 |
| 31.2 | 87.5° | 14.0 | 34.5 | 54.2 | 51.0 | 52.6 | 153.7 | 318.1 | 270.4 | 203.0 | 152.0 |
| 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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| <u>180°</u> |
|-------------|
| 1573.8 |
| 1569.7 |
| 1600.1 |
| 1651.9 |
| 1710.3 |
| 1764.5 |
| 1801.5 |
| 1822.9 |
| 1835.2 |
| 1836.0 |
| 1823.7 |
| 1802.3 |
| 1760.4 |
| 1683.1 |
| 1557.4 |
| 1391.4 |
| 1200.7 |
| 1012.5 |
| 856.4 |
| 749.5 |
| 680.5 |
| 627.9 |
| 588.4 |
| 546.5 |
| 498.0 |
| 512.8 |
| 540.8 |
| 557.2 |
| 538.3 |
| 598.3 |
| 553.9 |
| 451.2 |
| 359.1 |
| 296.7 |
| 246.6 |
| 119.2 |
| 0.0 |

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