

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: P940119

Luminaire Tested: **GALN-SB3A-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14074 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

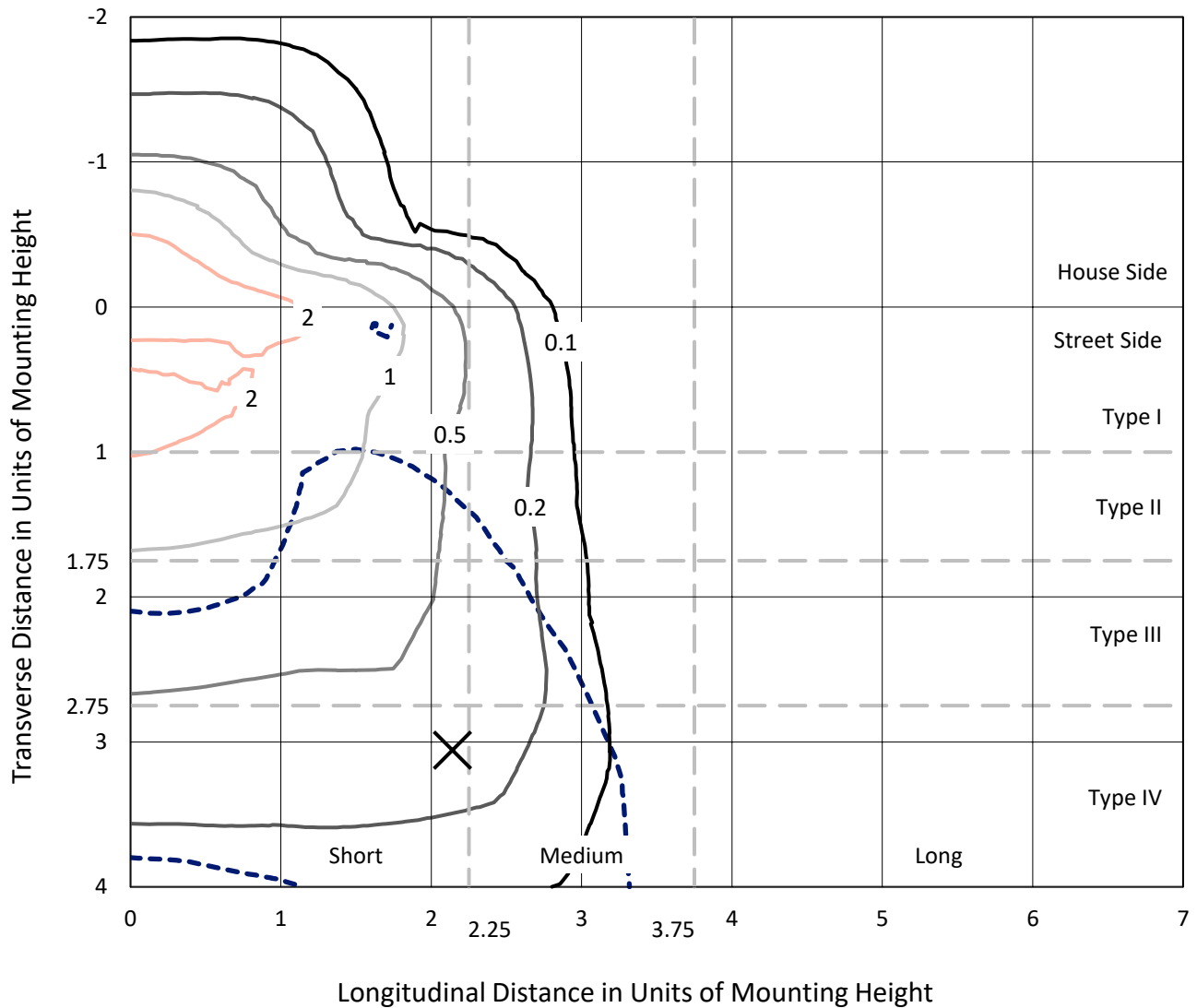
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

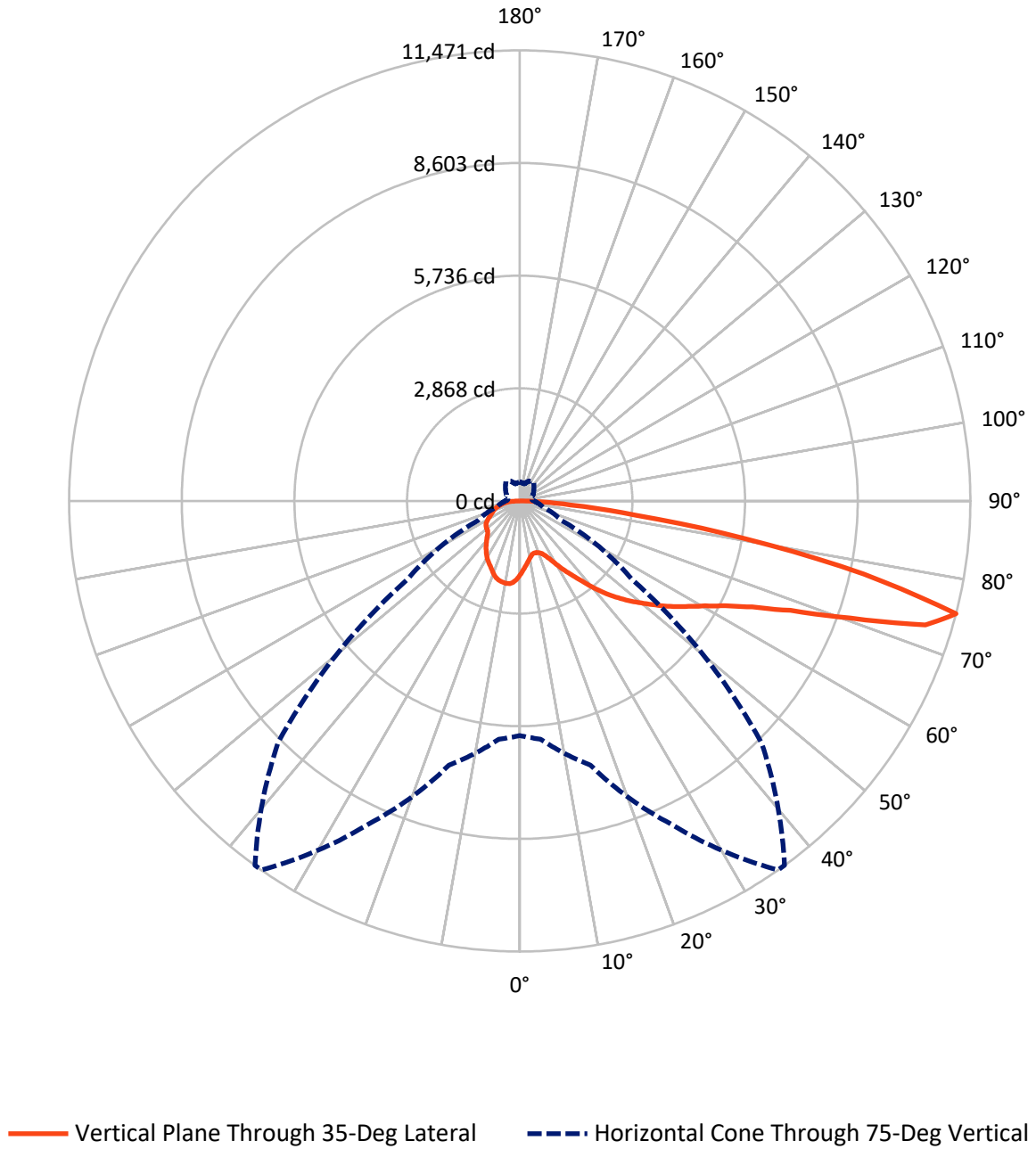
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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 | 3349.3 | 0.0 | 3349.3 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 10724.7 | 0.0 | 10724.7 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 14074.0 | 0.0 | 14074.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 177.6 | 1.3 |
| 10°-20° | 512.2 | 3.6 |
| 20°-30° | 860.1 | 6.1 |
| 30°-40° | 1336.7 | 9.5 |
| 40°-50° | 1984.0 | 14.1 |
| 50°-60° | 2739.1 | 19.5 |
| 60°-70° | 3323.1 | 23.6 |
| 70°-80° | 2746.3 | 19.5 |
| 80°-90° | 395.0 | 2.8 |
| 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° | 14074.0 | 100.0 |
| 0°-180° | 14074.0 | 100.0 |

Coefficient of Utilization



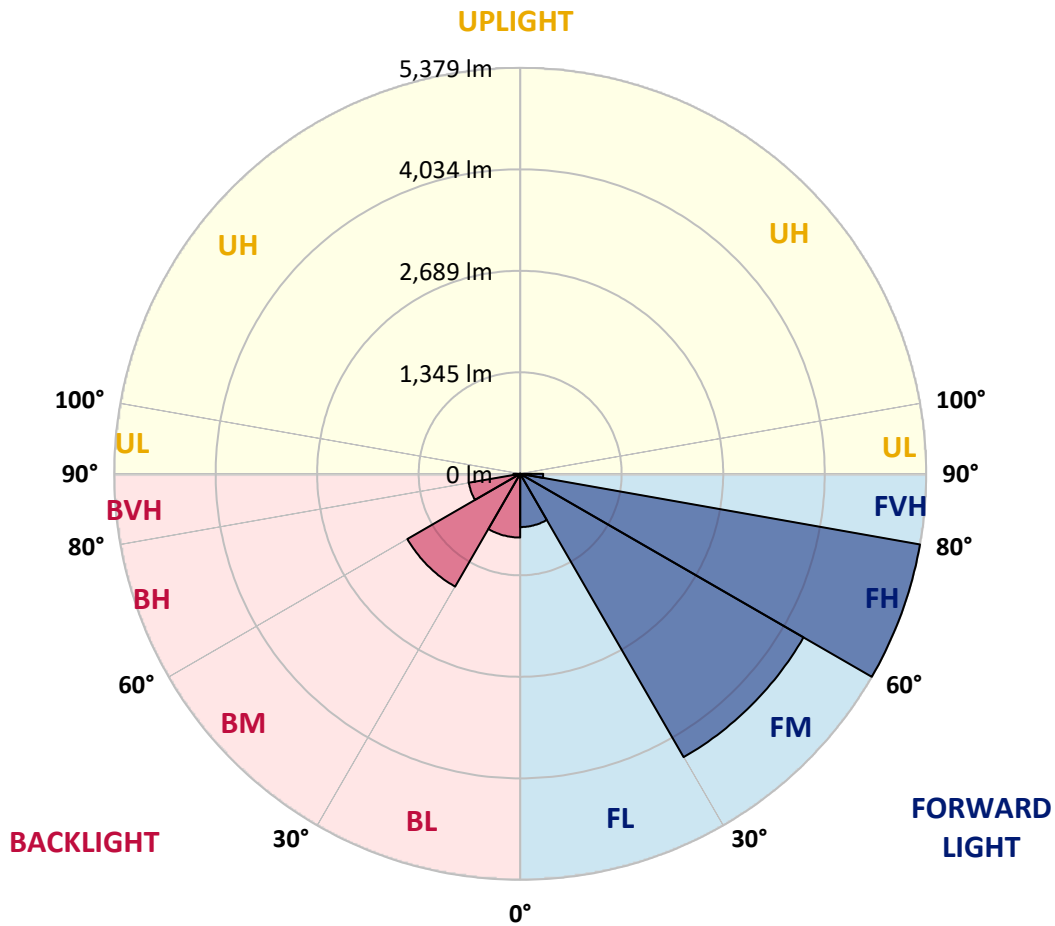
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 705.8 | 5.0 | | | |
| FM (30°-60°) | 4334.0 | 30.8 | | | |
| FH (60°-80°) | 5378.9 | 38.2 | | | G3/7500 |
| FVH (80°-90°) | 306.1 | 2.2 | | | G3/500 |
| BL (0°-30°) | 844.1 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1725.7 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 690.5 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 88.9 | 0.6 | | | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 |
| 2.5° | 1729.4 | 1740.0 | 1744.6 | 1742.3 | 1753.7 | 1752.2 | 1768.2 | 1788.0 | 1815.3 | 1842.0 |
| 5° | 1596.2 | 1607.6 | 1617.5 | 1626.7 | 1648.7 | 1655.6 | 1680.7 | 1718.7 | 1768.9 | 1819.9 |
| 7.5° | 1472.2 | 1482.1 | 1497.3 | 1514.1 | 1551.3 | 1558.2 | 1600.0 | 1659.4 | 1729.4 | 1803.9 |
| 10° | 1371.0 | 1380.9 | 1396.9 | 1415.9 | 1462.3 | 1470.7 | 1524.0 | 1603.1 | 1694.4 | 1788.7 |
| 12.5° | 1327.7 | 1330.7 | 1339.8 | 1358.8 | 1399.2 | 1404.5 | 1463.1 | 1553.6 | 1660.1 | 1777.3 |
| 15° | 1325.4 | 1331.5 | 1332.2 | 1342.1 | 1375.6 | 1377.9 | 1431.9 | 1521.7 | 1638.8 | 1775.0 |
| 17.5° | 1348.2 | 1352.8 | 1345.9 | 1352.0 | 1380.2 | 1384.0 | 1426.6 | 1506.5 | 1632.0 | 1784.9 |
| 20° | 1409.1 | 1412.9 | 1392.3 | 1384.0 | 1404.5 | 1407.5 | 1449.4 | 1516.3 | 1638.8 | 1805.5 |
| 22.5° | 1538.4 | 1540.7 | 1490.5 | 1456.2 | 1457.8 | 1459.3 | 1495.8 | 1556.7 | 1665.5 | 1842.7 |
| 25° | 1740.0 | 1738.5 | 1658.6 | 1592.4 | 1554.4 | 1546.0 | 1570.4 | 1622.1 | 1710.4 | 1892.2 |
| 27.5° | 1975.9 | 1964.5 | 1884.6 | 1785.7 | 1702.7 | 1690.6 | 1685.2 | 1707.3 | 1774.3 | 1957.6 |
| 30° | 2242.2 | 2231.5 | 2145.6 | 2016.2 | 1901.3 | 1881.5 | 1831.3 | 1819.9 | 1869.4 | 2046.6 |
| 32.5° | 2534.3 | 2527.5 | 2424.8 | 2268.0 | 2114.4 | 2091.5 | 2007.1 | 1976.6 | 2015.4 | 2181.3 |
| 35° | 2779.3 | 2773.2 | 2688.0 | 2526.7 | 2338.8 | 2310.7 | 2224.7 | 2190.4 | 2210.2 | 2354.0 |
| 37.5° | 3000.7 | 2997.7 | 2924.6 | 2797.6 | 2603.6 | 2569.3 | 2472.7 | 2461.3 | 2457.5 | 2581.5 |
| 40° | 3206.2 | 3198.5 | 3122.5 | 3055.5 | 2911.7 | 2880.5 | 2795.3 | 2785.4 | 2756.5 | 2861.5 |
| 42.5° | 3433.6 | 3413.9 | 3303.5 | 3272.3 | 3233.5 | 3207.7 | 3156.7 | 3158.2 | 3094.3 | 3177.2 |
| 45° | 3619.3 | 3607.9 | 3494.5 | 3476.3 | 3518.1 | 3507.4 | 3551.6 | 3563.0 | 3439.0 | 3508.2 |
| 47.5° | 3818.6 | 3808.0 | 3712.1 | 3699.2 | 3812.5 | 3815.6 | 3971.6 | 3975.4 | 3775.3 | 3852.1 |
| 50° | 4064.4 | 4049.2 | 3954.1 | 3970.0 | 4097.1 | 4108.5 | 4393.8 | 4367.9 | 4084.9 | 4201.3 |
| 52.5° | 4226.4 | 4235.6 | 4215.0 | 4240.9 | 4414.4 | 4425.0 | 4809.2 | 4743.0 | 4391.5 | 4546.0 |
| 55° | 4345.9 | 4364.1 | 4428.1 | 4487.4 | 4749.1 | 4759.8 | 5201.1 | 5099.9 | 4645.7 | 4865.5 |
| 57.5° | 4499.6 | 4473.7 | 4593.2 | 4708.8 | 5067.2 | 5095.3 | 5582.2 | 5443.8 | 4870.9 | 5141.0 |
| 60° | 4720.2 | 4702.0 | 4794.8 | 4966.0 | 5423.2 | 5468.1 | 5985.5 | 5753.4 | 5036.0 | 5359.3 |
| 62.5° | 5167.6 | 5121.9 | 5136.4 | 5287.8 | 5872.1 | 5931.5 | 6440.5 | 6023.5 | 5118.1 | 5444.5 |
| 65° | 5836.4 | 5758.0 | 5685.0 | 5789.9 | 6504.4 | 6563.0 | 6954.0 | 6235.8 | 5087.7 | 5279.4 |
| 67.5° | 6678.6 | 6601.0 | 6511.2 | 6610.1 | 7435.6 | 7482.0 | 7587.8 | 6355.2 | 4848.0 | 4643.4 |
| 70° | 7373.2 | 7344.3 | 7451.6 | 7858.7 | 8923.1 | 8924.6 | 8400.4 | 6256.3 | 4191.4 | 3292.1 |
| 72.5° | 7281.2 | 7263.7 | 7829.0 | 9087.4 | 10797.8 | 10757.4 | 9169.6 | 5507.7 | 2823.5 | 1485.1 |
| 75° | 5973.3 | 6086.7 | 6962.4 | 9065.3 | 11471.1 | 11465.8 | 8698.6 | 3501.4 | 1167.9 | 615.5 |
| 77.5° | 3203.1 | 3382.7 | 4520.1 | 6693.1 | 8955.0 | 9089.7 | 6115.6 | 1224.9 | 501.4 | 394.1 |
| 80° | 1044.6 | 1201.4 | 1801.7 | 3407.8 | 5818.9 | 5793.8 | 2621.1 | 480.8 | 343.1 | 279.2 |
| 82.5° | 443.6 | 461.8 | 805.0 | 1609.2 | 2986.3 | 2939.9 | 834.6 | 276.2 | 241.2 | 191.0 |
| 85° | 173.5 | 194.0 | 355.3 | 744.1 | 1293.4 | 1265.3 | 301.3 | 137.0 | 154.4 | 124.8 |
| 87.5° | 57.1 | 69.2 | 127.1 | 254.9 | 402.5 | 388.0 | 73.8 | 47.2 | 67.0 | 57.1 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1875.5 | 0° | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 | 1875.5 |
| 1880.8 | 2.5° | 1891.4 | 1903.6 | 1918.1 | 1939.4 | 1957.6 | 1972.8 | 1988.8 | 1998.7 | 2002.5 | 2013.9 |
| 1883.8 | 5° | 1905.1 | 1931.8 | 1967.5 | 2002.5 | 2036.8 | 2057.3 | 2075.6 | 2084.7 | 2093.1 | 2099.1 |
| 1892.2 | 7.5° | 1928.0 | 1962.2 | 2018.5 | 2064.1 | 2093.1 | 2109.8 | 2122.0 | 2118.9 | 2122.0 | 2123.5 |
| 1901.3 | 10° | 1947.7 | 1995.7 | 2062.6 | 2106.0 | 2128.1 | 2128.8 | 2125.8 | 2115.1 | 2109.8 | 2110.6 |
| 1915.0 | 12.5° | 1971.3 | 2024.6 | 2096.9 | 2133.4 | 2139.5 | 2122.7 | 2109.8 | 2091.5 | 2084.7 | 2081.6 |
| 1935.6 | 15° | 2003.3 | 2064.1 | 2134.1 | 2147.8 | 2132.6 | 2111.3 | 2089.3 | 2059.6 | 2044.4 | 2032.2 |
| 1970.6 | 17.5° | 2042.1 | 2109.0 | 2163.1 | 2153.2 | 2120.4 | 2085.4 | 2049.7 | 2004.8 | 1973.6 | 1960.7 |
| 2018.5 | 20° | 2096.1 | 2156.2 | 2185.1 | 2141.7 | 2092.3 | 2039.0 | 1978.2 | 1923.4 | 1894.5 | 1881.5 |
| 2079.4 | 22.5° | 2161.5 | 2219.4 | 2206.4 | 2122.0 | 2052.0 | 1966.8 | 1890.7 | 1850.3 | 1835.9 | 1826.8 |
| 2157.7 | 25° | 2239.9 | 2289.3 | 2221.6 | 2093.1 | 1985.8 | 1870.9 | 1812.3 | 1799.4 | 1792.5 | 1785.7 |
| 2253.6 | 27.5° | 2341.8 | 2368.5 | 2233.0 | 2050.4 | 1882.3 | 1768.9 | 1747.6 | 1749.9 | 1747.6 | 1736.2 |
| 2386.7 | 30° | 2476.5 | 2471.2 | 2243.7 | 1981.2 | 1763.6 | 1676.9 | 1678.4 | 1688.3 | 1689.8 | 1682.2 |
| 2572.4 | 32.5° | 2653.8 | 2599.8 | 2249.0 | 1891.4 | 1650.2 | 1596.2 | 1597.8 | 1608.4 | 1616.0 | 1603.1 |
| 2815.1 | 35° | 2868.3 | 2749.7 | 2240.7 | 1778.8 | 1562.8 | 1519.4 | 1508.0 | 1511.0 | 1513.3 | 1501.1 |
| 3109.5 | 37.5° | 3118.7 | 2917.8 | 2203.4 | 1654.1 | 1490.5 | 1444.1 | 1419.7 | 1399.2 | 1387.0 | 1375.6 |
| 3442.8 | 40° | 3393.3 | 3101.2 | 2134.9 | 1532.3 | 1409.8 | 1364.2 | 1327.7 | 1288.9 | 1247.8 | 1232.6 |
| 3795.8 | 42.5° | 3680.9 | 3289.8 | 2052.0 | 1415.9 | 1317.0 | 1279.7 | 1240.9 | 1184.6 | 1123.0 | 1091.8 |
| 4162.5 | 45° | 3979.2 | 3483.1 | 1970.6 | 1301.0 | 1221.9 | 1205.9 | 1161.0 | 1093.3 | 1026.4 | 986.8 |
| 4530.0 | 47.5° | 4271.3 | 3665.7 | 1851.1 | 1185.4 | 1132.9 | 1150.4 | 1115.4 | 1053.0 | 978.4 | 916.0 |
| 4894.4 | 50° | 4550.5 | 3836.9 | 1655.6 | 1068.2 | 1060.6 | 1133.6 | 1100.2 | 1010.4 | 925.2 | 845.3 |
| 5252.0 | 52.5° | 4827.5 | 3975.4 | 1405.3 | 961.7 | 1021.8 | 1129.1 | 1080.4 | 981.5 | 877.2 | 793.5 |
| 5588.3 | 55° | 5062.6 | 4046.9 | 1164.1 | 870.4 | 965.5 | 1090.3 | 1056.8 | 947.2 | 809.5 | 720.5 |
| 5818.9 | 57.5° | 5196.5 | 3989.1 | 963.2 | 780.6 | 887.9 | 1026.4 | 1016.5 | 874.2 | 728.9 | 660.4 |
| 5863.7 | 60° | 5138.7 | 3754.7 | 798.9 | 702.2 | 814.1 | 957.1 | 946.5 | 801.9 | 667.3 | 602.6 |
| 5623.3 | 62.5° | 4819.9 | 3308.1 | 668.8 | 633.8 | 747.1 | 886.4 | 876.5 | 746.4 | 620.1 | 557.7 |
| 4985.0 | 65° | 4177.7 | 2691.1 | 567.6 | 576.7 | 679.4 | 801.2 | 815.6 | 700.0 | 582.8 | 521.9 |
| 3856.7 | 67.5° | 3186.4 | 1949.3 | 488.5 | 527.3 | 613.2 | 717.5 | 759.3 | 666.5 | 551.6 | 493.8 |
| 2231.5 | 70° | 1816.1 | 1107.0 | 421.5 | 479.3 | 554.6 | 639.9 | 715.9 | 639.9 | 518.1 | 470.2 |
| 836.2 | 72.5° | 688.6 | 508.2 | 364.4 | 431.4 | 498.3 | 574.4 | 668.0 | 598.0 | 479.3 | 443.6 |
| 432.2 | 75° | 367.5 | 309.7 | 306.6 | 375.1 | 433.7 | 510.5 | 607.9 | 556.9 | 450.4 | 468.7 |
| 299.0 | 77.5° | 250.3 | 219.1 | 256.4 | 321.1 | 362.9 | 439.8 | 544.0 | 494.5 | 390.3 | 388.8 |
| 206.9 | 80° | 173.5 | 155.2 | 208.5 | 258.7 | 280.7 | 369.8 | 474.8 | 424.5 | 318.0 | 296.7 |
| 127.8 | 82.5° | 104.2 | 101.2 | 156.0 | 193.3 | 198.6 | 285.3 | 393.4 | 356.1 | 260.2 | 226.7 |
| 76.1 | 85° | 57.1 | 60.1 | 99.7 | 113.4 | 115.6 | 199.3 | 308.1 | 275.4 | 200.1 | 168.1 |
| 27.4 | 87.5° | 16.0 | 20.5 | 36.5 | 44.9 | 55.5 | 103.5 | 183.4 | 163.6 | 100.4 | 70.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 1875.5 |
| 2013.2 |
| 2100.7 |
| 2125.8 |
| 2112.1 |
| 2080.1 |
| 2036.0 |
| 1961.4 |
| 1880.0 |
| 1828.3 |
| 1785.7 |
| 1738.5 |
| 1686.0 |
| 1609.2 |
| 1509.5 |
| 1383.2 |
| 1239.4 |
| 1095.6 |
| 983.8 |
| 909.2 |
| 838.4 |
| 784.4 |
| 712.9 |
| 651.3 |
| 593.5 |
| 547.8 |
| 512.0 |
| 484.7 |
| 464.1 |
| 437.5 |
| 483.9 |
| 358.4 |
| 283.8 |
| 228.3 |
| 169.7 |
| 70.0 |
| 0.0 |

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