

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: P941567

Luminaire Tested: **GALN-SB5A-930-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-930-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15774 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

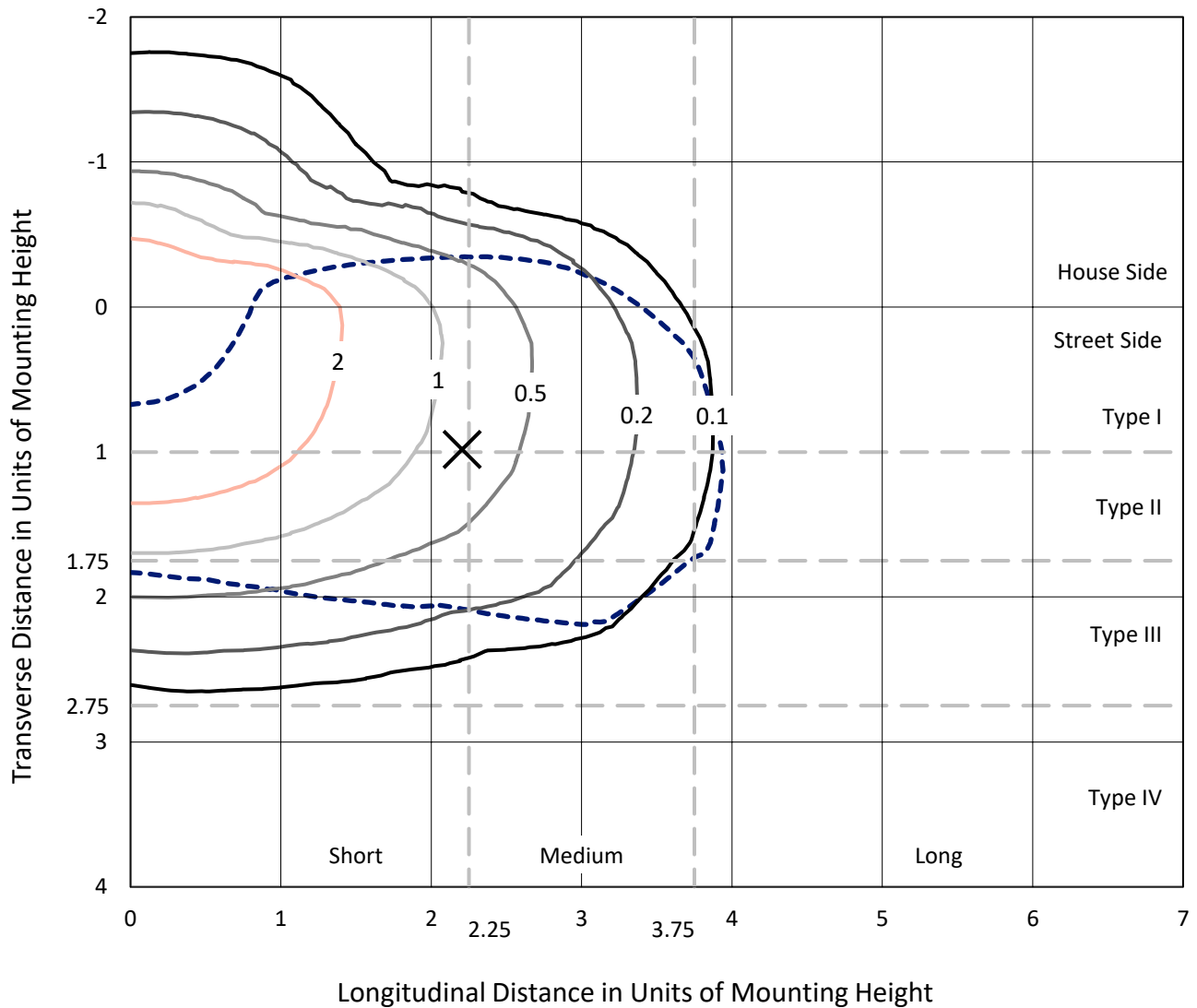
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

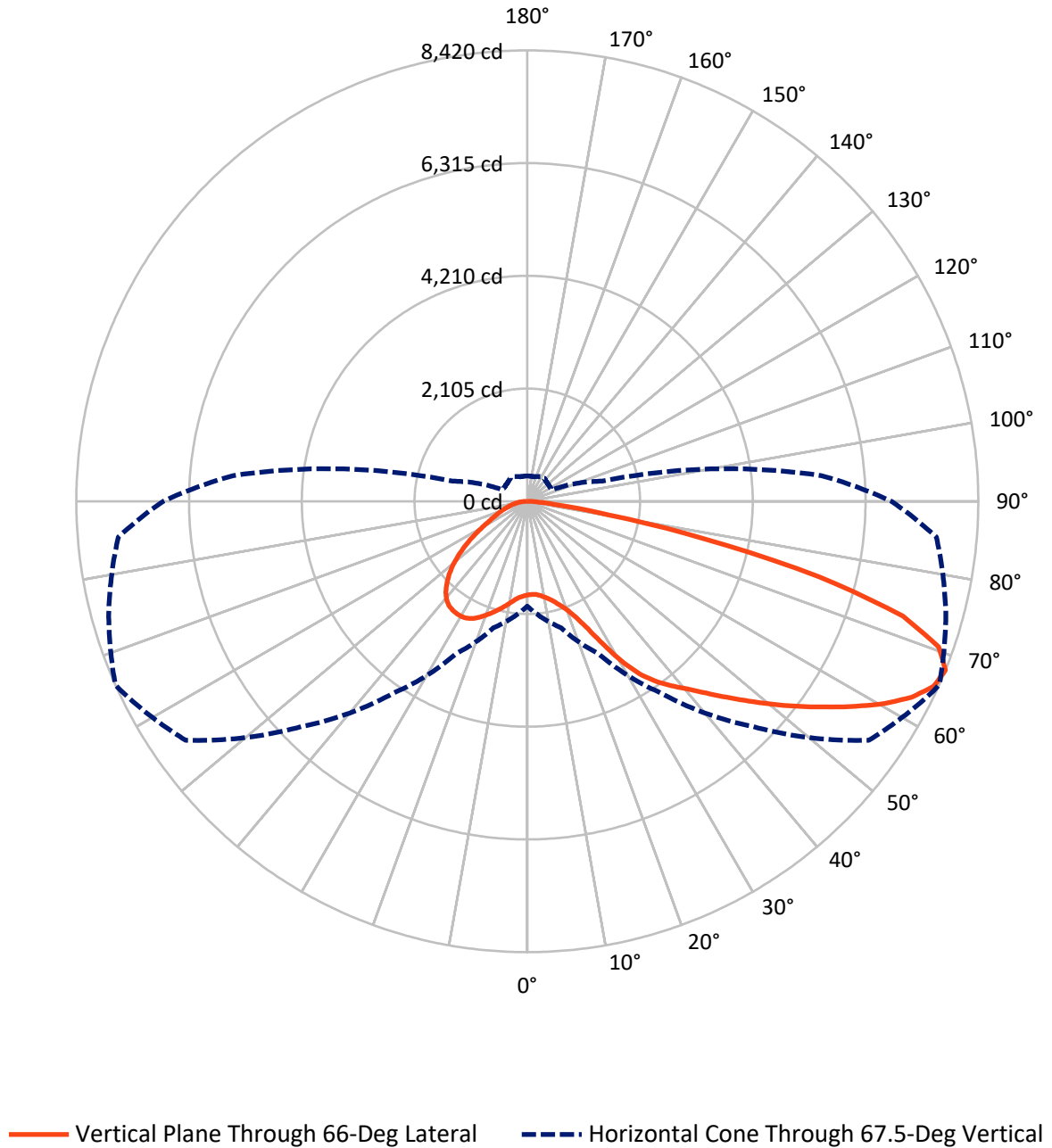
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3922.2 | 0.0 | 3922.2 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 11851.8 | 0.0 | 11851.8 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 15774.0 | 0.0 | 15774.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 173.5 | 1.1 |
| 10°-20° | 573.1 | 3.6 |
| 20°-30° | 1104.6 | 7.0 |
| 30°-40° | 1936.8 | 12.3 |
| 40°-50° | 2879.3 | 18.3 |
| 50°-60° | 3649.8 | 23.1 |
| 60°-70° | 3571.3 | 22.6 |
| 70°-80° | 1703.5 | 10.8 |
| 80°-90° | 182.1 | 1.2 |
| 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° | 15774.0 | 100.0 |
| 0°-180° | 15774.0 | 100.0 |

Coefficient of Utilization



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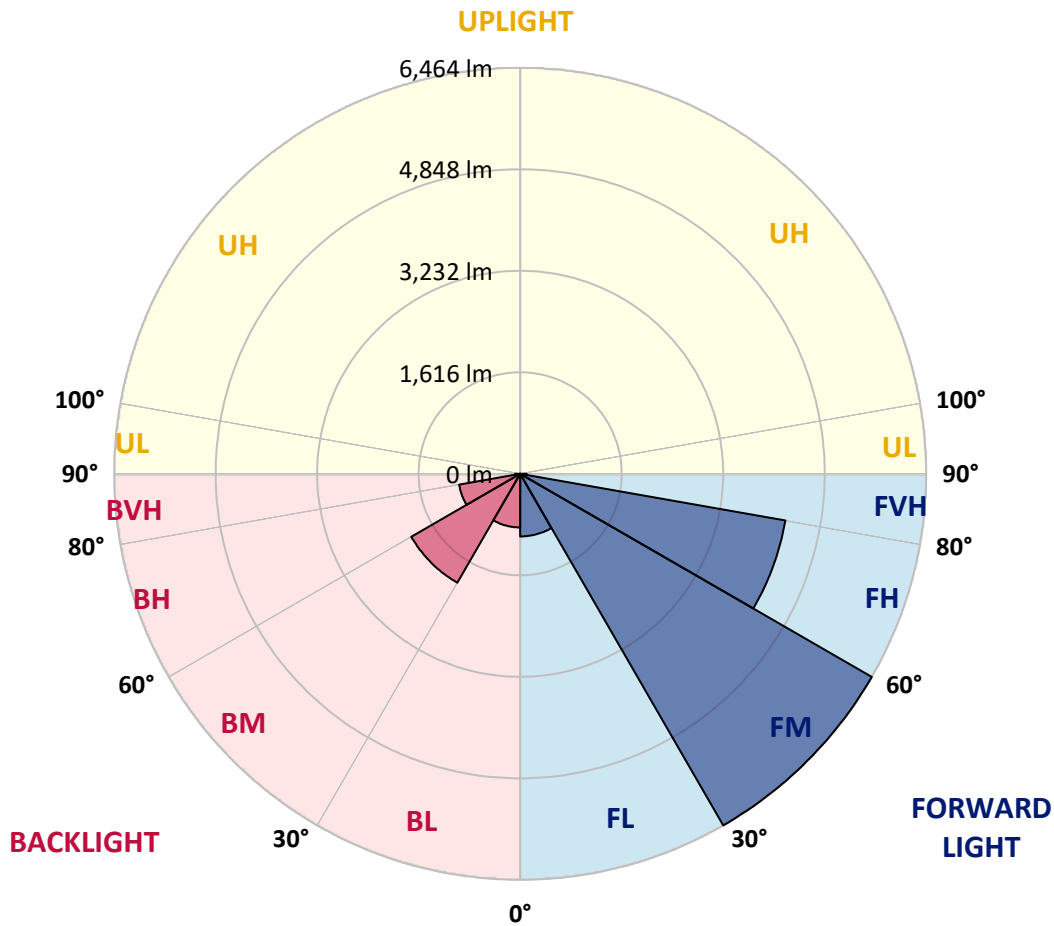
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 996.8 | 6.3 | | | |
| FM (30°-60°) | 6464.0 | 41.0 | | | |
| FH (60°-80°) | 4287.8 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 103.2 | 0.7 | | | G2/225 |
| BL (0°-30°) | 854.4 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 2001.9 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 987.0 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 78.8 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 |
| 2.5° | 1731.3 | 1741.3 | 1738.8 | 1734.6 | 1733.8 | 1735.5 | 1737.9 | 1740.4 | 1739.6 | 1743.7 |
| 5° | 1726.3 | 1736.3 | 1735.5 | 1735.5 | 1738.8 | 1745.4 | 1749.5 | 1753.7 | 1749.5 | 1754.5 |
| 7.5° | 1729.7 | 1737.1 | 1740.4 | 1743.7 | 1752.0 | 1764.5 | 1774.4 | 1783.5 | 1778.6 | 1784.4 |
| 10° | 1771.9 | 1777.7 | 1781.0 | 1781.0 | 1786.8 | 1800.9 | 1810.9 | 1827.4 | 1823.3 | 1832.4 |
| 12.5° | 1849.0 | 1854.8 | 1854.8 | 1851.5 | 1855.6 | 1864.7 | 1868.1 | 1886.3 | 1878.8 | 1893.8 |
| 15° | 1943.5 | 1955.1 | 1946.0 | 1940.2 | 1941.8 | 1950.9 | 1950.1 | 1964.2 | 1956.7 | 1969.2 |
| 17.5° | 2047.9 | 2062.8 | 2047.9 | 2047.1 | 2043.8 | 2053.7 | 2054.5 | 2067.0 | 2053.7 | 2062.8 |
| 20° | 2171.4 | 2192.1 | 2179.7 | 2183.8 | 2176.4 | 2180.5 | 2184.7 | 2202.9 | 2182.2 | 2188.8 |
| 22.5° | 2345.4 | 2370.3 | 2357.0 | 2372.8 | 2367.8 | 2364.5 | 2363.7 | 2396.0 | 2363.7 | 2366.2 |
| 25° | 2599.0 | 2628.9 | 2605.7 | 2627.2 | 2627.2 | 2638.0 | 2650.4 | 2691.9 | 2638.0 | 2622.2 |
| 27.5° | 2973.6 | 3003.5 | 2957.9 | 2971.2 | 2967.0 | 2993.5 | 2980.3 | 3083.0 | 3025.0 | 2999.3 |
| 30° | 3424.5 | 3477.5 | 3391.3 | 3388.0 | 3383.9 | 3426.2 | 3445.2 | 3513.2 | 3454.3 | 3428.6 |
| 32.5° | 3911.8 | 3967.3 | 3864.6 | 3834.7 | 3819.0 | 3844.7 | 3828.9 | 3883.6 | 3843.0 | 3803.3 |
| 35° | 4427.3 | 4482.0 | 4384.2 | 4326.2 | 4263.2 | 4209.4 | 4153.0 | 4167.1 | 4129.0 | 4068.5 |
| 37.5° | 4914.6 | 5014.9 | 4911.3 | 4849.2 | 4733.1 | 4627.9 | 4470.4 | 4404.9 | 4369.3 | 4313.8 |
| 40° | 5411.1 | 5468.3 | 5389.5 | 5336.5 | 5210.5 | 5045.6 | 4793.6 | 4655.2 | 4607.2 | 4553.3 |
| 42.5° | 5776.6 | 5831.3 | 5789.0 | 5752.5 | 5653.9 | 5462.5 | 5136.8 | 4963.5 | 4893.9 | 4833.4 |
| 45° | 6066.6 | 6107.2 | 6080.7 | 6094.0 | 6051.7 | 5866.1 | 5492.3 | 5294.2 | 5222.1 | 5148.4 |
| 47.5° | 6183.5 | 6226.6 | 6268.9 | 6347.6 | 6419.7 | 6282.9 | 5874.4 | 5652.2 | 5576.0 | 5500.6 |
| 50° | 6170.2 | 6214.2 | 6336.8 | 6504.2 | 6728.0 | 6682.4 | 6277.1 | 6033.5 | 5963.0 | 5876.8 |
| 52.5° | 6064.2 | 6113.9 | 6271.3 | 6549.8 | 6906.2 | 6981.6 | 6687.4 | 6427.2 | 6360.9 | 6258.1 |
| 55° | 5785.7 | 5815.5 | 6051.7 | 6446.2 | 6948.5 | 7190.5 | 7089.3 | 6846.5 | 6780.2 | 6636.8 |
| 57.5° | 5269.4 | 5312.5 | 5656.4 | 6166.9 | 6842.4 | 7332.2 | 7442.4 | 7287.4 | 7223.6 | 7017.2 |
| 60° | 4595.6 | 4664.3 | 5058.0 | 5697.8 | 6572.2 | 7331.3 | 7763.1 | 7720.9 | 7667.8 | 7391.8 |
| 62.5° | 3833.1 | 3912.6 | 4291.4 | 5034.8 | 6099.8 | 7123.3 | 7963.7 | 8083.9 | 8056.5 | 7737.4 |
| 65° | 2943.8 | 2998.5 | 3375.6 | 4177.0 | 5364.7 | 6676.6 | 7986.9 | 8331.7 | 8336.7 | 8000.2 |
| 67.5° | 1960.1 | 2117.5 | 2444.9 | 3134.4 | 4380.1 | 5946.5 | 7783.0 | 8372.3 | 8420.4 | 8090.5 |
| 70° | 956.4 | 1163.6 | 1484.3 | 2037.1 | 3134.4 | 4826.8 | 7250.1 | 8039.1 | 8146.0 | 7827.0 |
| 72.5° | 397.0 | 464.1 | 639.0 | 1005.3 | 1799.3 | 3257.1 | 6179.4 | 7135.8 | 7333.8 | 6935.2 |
| 75° | 267.7 | 290.1 | 365.5 | 515.5 | 819.7 | 1606.2 | 4456.3 | 5320.7 | 5639.8 | 5237.9 |
| 77.5° | 206.4 | 220.5 | 266.0 | 360.5 | 487.3 | 607.5 | 2385.2 | 3206.5 | 3371.5 | 3121.2 |
| 80° | 162.4 | 173.2 | 198.9 | 262.7 | 345.6 | 324.9 | 813.0 | 1452.8 | 1548.2 | 1298.7 |
| 82.5° | 140.9 | 145.0 | 142.5 | 178.2 | 229.6 | 189.8 | 266.9 | 536.2 | 591.7 | 429.3 |
| 85° | 101.9 | 113.5 | 118.5 | 110.2 | 121.8 | 96.1 | 109.4 | 189.8 | 208.9 | 186.5 |
| 87.5° | 41.4 | 61.3 | 75.4 | 71.3 | 44.8 | 27.3 | 34.0 | 55.5 | 63.8 | 69.6 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1749.5 | 0° | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 | 1749.5 |
| 1750.4 | 2.5° | 1751.2 | 1757.0 | 1761.1 | 1766.1 | 1769.4 | 1774.4 | 1784.4 | 1790.2 | 1791.0 | 1795.1 |
| 1763.6 | 5° | 1766.9 | 1775.2 | 1784.4 | 1797.6 | 1812.5 | 1825.0 | 1844.0 | 1857.3 | 1862.3 | 1866.4 |
| 1796.0 | 7.5° | 1800.9 | 1812.5 | 1829.1 | 1852.3 | 1873.9 | 1890.4 | 1913.6 | 1929.4 | 1945.1 | 1950.9 |
| 1847.3 | 10° | 1851.5 | 1868.1 | 1892.1 | 1923.6 | 1946.8 | 1968.3 | 1992.4 | 2005.6 | 2021.4 | 2028.0 |
| 1908.7 | 12.5° | 1914.5 | 1931.9 | 1963.4 | 2007.3 | 2028.8 | 2043.8 | 2052.0 | 2048.7 | 2052.0 | 2057.8 |
| 1982.4 | 15° | 1986.6 | 2005.6 | 2041.3 | 2088.5 | 2103.4 | 2090.2 | 2071.9 | 2055.4 | 2052.9 | 2054.5 |
| 2071.9 | 17.5° | 2071.9 | 2086.0 | 2127.5 | 2167.2 | 2156.5 | 2101.8 | 2062.0 | 2035.5 | 2022.2 | 2018.1 |
| 2186.3 | 20° | 2191.3 | 2191.3 | 2225.3 | 2250.1 | 2178.0 | 2085.2 | 2023.0 | 1979.9 | 1952.6 | 1941.0 |
| 2342.1 | 22.5° | 2336.3 | 2323.1 | 2344.6 | 2327.2 | 2173.9 | 2038.8 | 1952.6 | 1878.0 | 1836.6 | 1820.0 |
| 2560.1 | 25° | 2520.3 | 2504.6 | 2498.8 | 2391.0 | 2144.0 | 1965.0 | 1825.0 | 1734.6 | 1698.2 | 1689.0 |
| 2874.2 | 27.5° | 2797.9 | 2758.2 | 2682.7 | 2425.8 | 2089.3 | 1849.0 | 1675.8 | 1592.1 | 1571.4 | 1572.2 |
| 3277.8 | 30° | 3167.6 | 3088.0 | 2903.2 | 2431.6 | 1999.8 | 1684.9 | 1523.3 | 1463.6 | 1453.7 | 1457.8 |
| 3616.8 | 32.5° | 3509.9 | 3434.4 | 3128.6 | 2405.1 | 1862.3 | 1524.1 | 1386.5 | 1346.8 | 1331.8 | 1336.8 |
| 3875.4 | 35° | 3778.4 | 3757.7 | 3337.5 | 2367.8 | 1693.2 | 1373.3 | 1263.9 | 1229.9 | 1200.9 | 1194.3 |
| 4119.0 | 37.5° | 4032.0 | 4023.7 | 3494.1 | 2315.6 | 1525.8 | 1266.4 | 1165.3 | 1120.5 | 1078.2 | 1055.0 |
| 4388.4 | 40° | 4310.5 | 4302.2 | 3596.9 | 2235.2 | 1377.4 | 1173.5 | 1076.6 | 1017.7 | 965.5 | 923.3 |
| 4693.4 | 42.5° | 4623.7 | 4574.8 | 3645.8 | 2120.0 | 1251.5 | 1094.8 | 1004.5 | 924.9 | 856.1 | 817.2 |
| 5038.1 | 45° | 4966.0 | 4855.8 | 3645.0 | 1973.3 | 1145.4 | 1022.7 | 927.4 | 814.7 | 750.9 | 714.4 |
| 5392.0 | 47.5° | 5329.0 | 5124.3 | 3600.2 | 1810.9 | 1042.6 | 943.1 | 808.1 | 721.9 | 679.6 | 657.2 |
| 5776.6 | 50° | 5703.6 | 5375.4 | 3524.0 | 1624.4 | 937.3 | 852.8 | 733.5 | 674.6 | 642.3 | 621.6 |
| 6157.8 | 52.5° | 6055.9 | 5603.4 | 3432.0 | 1413.1 | 830.4 | 765.0 | 700.3 | 654.7 | 620.8 | 597.5 |
| 6527.4 | 55° | 6383.2 | 5799.8 | 3301.8 | 1196.8 | 743.4 | 706.1 | 684.6 | 646.4 | 607.5 | 580.1 |
| 6902.9 | 57.5° | 6674.1 | 5927.4 | 3077.2 | 993.7 | 681.3 | 665.5 | 668.0 | 632.4 | 587.6 | 564.4 |
| 7272.5 | 60° | 6916.1 | 6021.1 | 2744.9 | 805.6 | 630.7 | 625.7 | 642.3 | 605.8 | 553.6 | 527.1 |
| 7585.0 | 62.5° | 7061.2 | 6019.4 | 2337.1 | 659.7 | 587.6 | 589.3 | 608.3 | 572.7 | 519.6 | 494.8 |
| 7748.2 | 65° | 7048.7 | 5871.9 | 1889.6 | 564.4 | 546.2 | 547.8 | 572.7 | 536.2 | 491.5 | 476.5 |
| 7666.2 | 67.5° | 6799.3 | 5512.2 | 1449.5 | 502.2 | 500.6 | 508.0 | 537.0 | 511.4 | 474.1 | 472.4 |
| 7177.2 | 70° | 6123.8 | 4765.5 | 1044.3 | 452.5 | 453.3 | 464.1 | 502.2 | 495.6 | 464.9 | 468.3 |
| 6034.3 | 72.5° | 4910.5 | 3633.4 | 701.1 | 400.3 | 401.1 | 418.5 | 469.1 | 483.2 | 455.8 | 499.8 |
| 4281.5 | 75° | 3270.3 | 2265.9 | 450.9 | 344.8 | 345.6 | 368.0 | 440.1 | 459.1 | 431.0 | 498.1 |
| 2227.7 | 77.5° | 1571.4 | 1018.6 | 326.5 | 290.1 | 290.1 | 310.8 | 380.4 | 411.1 | 367.1 | 387.0 |
| 716.1 | 80° | 542.8 | 382.9 | 256.9 | 233.7 | 228.7 | 242.8 | 320.7 | 356.4 | 316.6 | 291.7 |
| 233.7 | 82.5° | 213.8 | 198.9 | 206.4 | 181.5 | 164.9 | 174.0 | 249.5 | 294.2 | 232.9 | 210.5 |
| 131.8 | 85° | 122.7 | 129.3 | 145.9 | 120.2 | 95.3 | 106.9 | 183.2 | 211.3 | 175.7 | 155.0 |
| 43.1 | 87.5° | 33.2 | 45.6 | 67.1 | 62.2 | 43.1 | 45.6 | 87.0 | 116.9 | 101.1 | 77.9 |
| 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> |
|-------------|
| 1749.5 |
| 1794.3 |
| 1865.6 |
| 1951.8 |
| 2031.3 |
| 2059.5 |
| 2060.3 |
| 2023.9 |
| 1938.5 |
| 1817.5 |
| 1690.7 |
| 1574.7 |
| 1471.9 |
| 1343.4 |
| 1199.2 |
| 1055.9 |
| 927.4 |
| 819.7 |
| 712.7 |
| 652.2 |
| 614.1 |
| 587.6 |
| 569.4 |
| 549.5 |
| 515.5 |
| 487.3 |
| 475.7 |
| 474.9 |
| 467.4 |
| 506.4 |
| 502.2 |
| 354.7 |
| 273.5 |
| 209.7 |
| 158.3 |
| 80.4 |
| 0.0 |

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