Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P940848

Luminaire Tested: **GALN-SB4A-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P940848 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/21/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SB4A-835-U-T4FT-HSS |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 12626 lumens |
| Efficiency: | N/A |
| Efficacy: | 110.8 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - 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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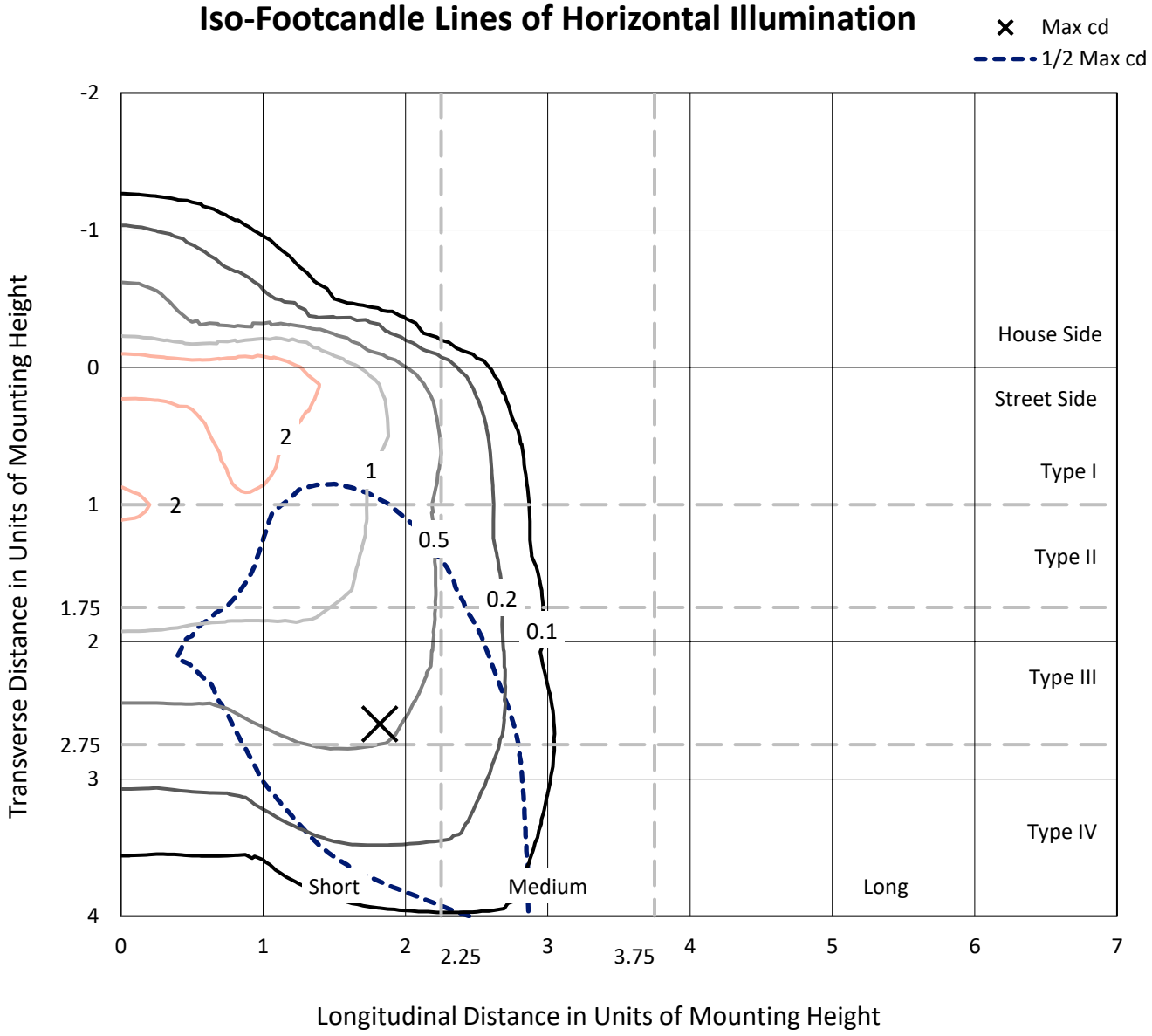
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type IV - Short - N/A

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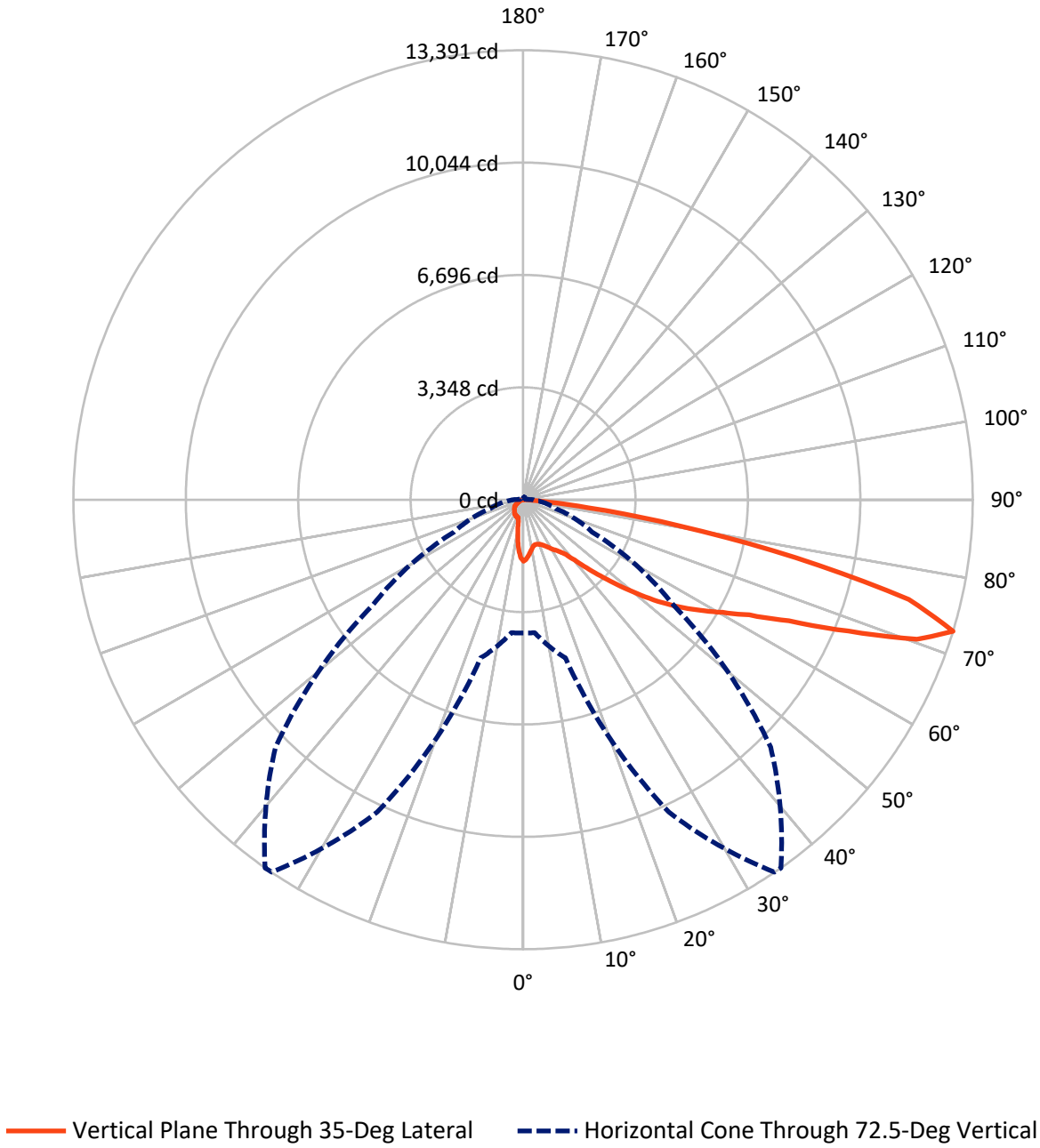
## Luminous Intensity Polar Plot



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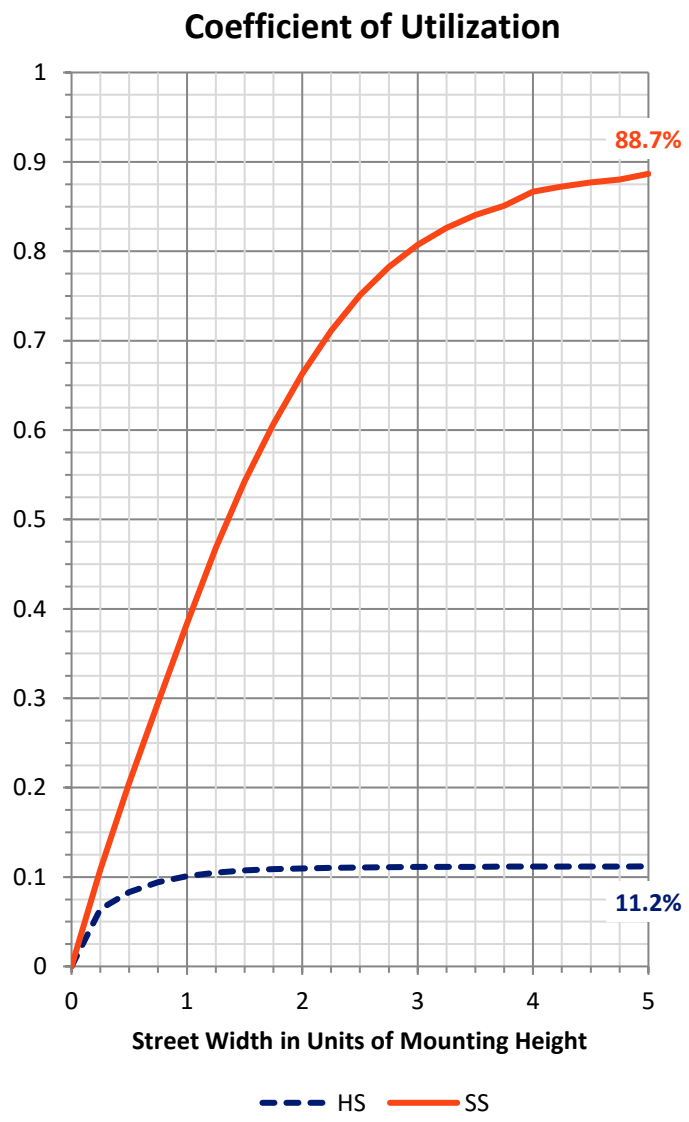
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1421.0 | 0.0 | 1421.0 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| **Street Side** | Lumens | 11205.0 | 0.0 | 11205.0 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| **Total** | Lumens | 12626.0 | 0.0 | 12626.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 150.4 | 1.2 |
| 10°-20° | 351.8 | 2.8 |
| 20°-30° | 571.5 | 4.5 |
| 30°-40° | 953.5 | 7.6 |
| 40°-50° | 1804.0 | 14.3 |
| 50°-60° | 2866.5 | 22.7 |
| 60°-70° | 3546.1 | 28.1 |
| 70°-80° | 2204.3 | 17.5 |
| 80°-90° | 178.1 | 1.4 |
| 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° | 12626.0 | 100.0 |
| 0°-180° | 12626.0 | 100.0 |



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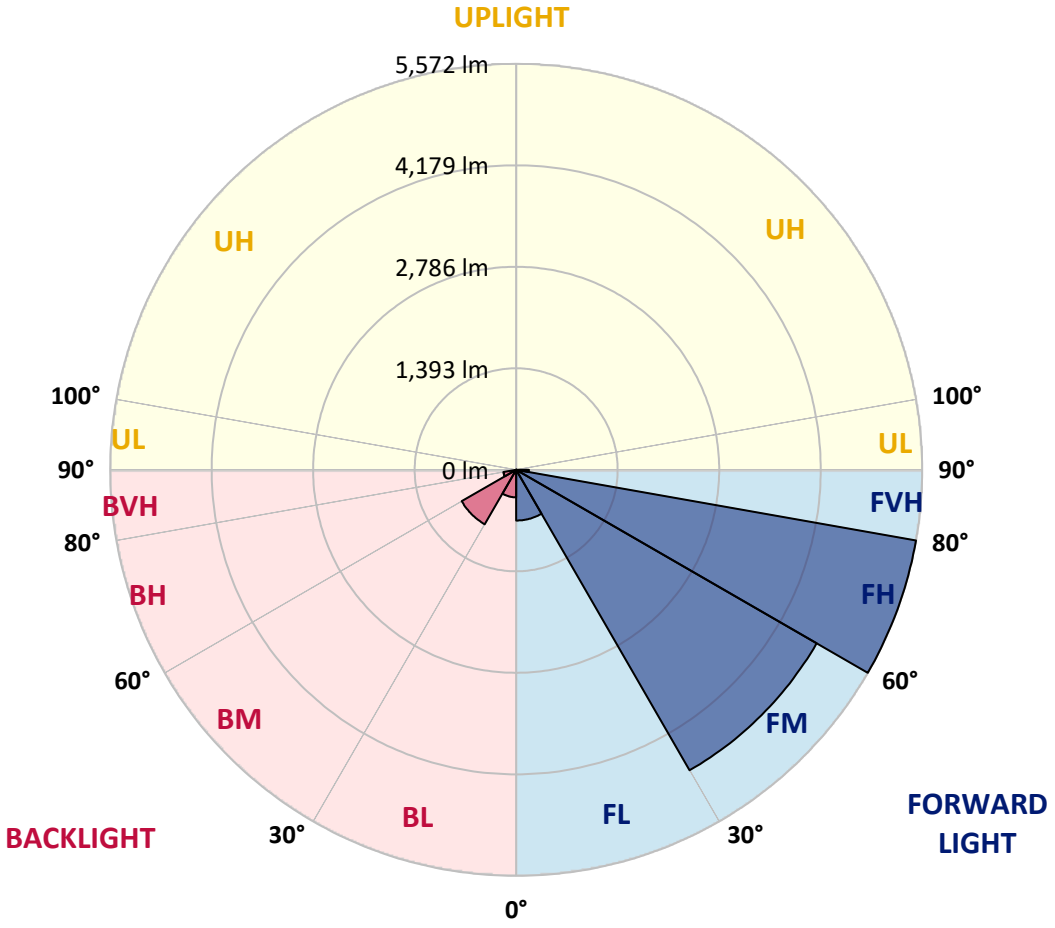
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 696.0 | 5.5 | | | |
| FM | (30°-60°) | 4761.3 | 37.7 | | | |
| FH | (60°-80°) | 5572.0 | 44.1 | | | G3/7500 |
| FVH | (80°-90°) | 175.7 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 377.6 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 862.7 | 6.8 | B1/1000 | | |
| BH | (60°-80°) | 178.3 | 1.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G3**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1829.9 | 1829.9 | 1829.9 | 1829.9 | 1829.9 | *1829.9* | 1829.9 | 1829.9 | 1829.9 | 1829.9 |
| 2.5° | 1748.5 | 1763.3 | 1766.1 | 1770.7 | 1770.7 | *1776.3* | 1785.5 | 1798.5 | 1819.8 | 1830.9 |
| 5° | 1611.6 | 1622.7 | 1636.6 | 1647.7 | 1669.0 | *1671.7* | 1707.8 | 1743.0 | 1792.0 | 1829.0 |
| 7.5° | 1473.8 | 1486.7 | 1505.2 | 1532.0 | 1559.8 | *1568.1* | 1622.7 | 1681.9 | 1759.6 | 1829.0 |
| 10° | 1376.6 | 1377.5 | 1394.2 | 1421.0 | 1465.4 | *1475.6* | 1542.2 | 1626.4 | 1723.5 | 1817.9 |
| 12.5° | 1322.0 | 1328.5 | 1335.9 | 1356.3 | 1398.8 | *1405.3* | 1476.5 | 1575.5 | 1687.5 | 1811.4 |
| 15° | 1322.0 | 1326.7 | 1331.3 | 1341.5 | 1375.7 | *1381.2* | 1444.1 | 1543.1 | 1669.0 | 1814.2 |
| 17.5° | 1335.9 | 1343.3 | 1339.6 | 1351.6 | 1387.7 | *1391.4* | 1446.9 | 1533.9 | 1668.0 | 1831.8 |
| 20° | 1369.2 | 1374.8 | 1367.4 | 1374.8 | 1410.8 | *1418.2* | 1475.6 | 1551.5 | 1683.8 | 1862.3 |
| 22.5° | 1421.9 | 1424.7 | 1407.1 | 1412.7 | 1449.7 | *1458.9* | 1525.6 | 1601.4 | 1721.7 | 1911.3 |
| 25° | 1488.6 | 1494.1 | 1467.3 | 1473.8 | 1508.9 | *1520.0* | 1596.8 | 1676.4 | 1781.8 | 1978.9 |
| 27.5° | 1565.3 | 1568.1 | 1545.0 | 1544.1 | 1589.4 | *1605.1* | 1682.8 | 1768.9 | 1862.3 | 2064.0 |
| 30° | 1653.2 | 1661.6 | 1639.4 | 1635.7 | 1693.0 | *1706.0* | 1782.7 | 1882.7 | 1980.7 | 2191.7 |
| 32.5° | 1722.6 | 1729.1 | 1716.1 | 1725.4 | 1783.7 | *1793.9* | 1903.9 | 2043.6 | 2166.7 | 2373.0 |
| 35° | 1822.5 | 1826.2 | 1796.6 | 1813.3 | 1879.9 | *1905.8* | 2069.5 | 2269.4 | 2400.7 | 2600.6 |
| 37.5° | 2184.3 | 2184.3 | 2058.4 | 1976.1 | 2039.9 | *2063.1* | 2296.2 | 2553.4 | 2689.4 | 2905.9 |
| 40° | 2684.8 | 2676.4 | 2492.3 | 2324.0 | 2315.6 | *2361.0* | 2619.1 | 2911.4 | 3062.2 | 3272.2 |
| 42.5° | 3218.6 | 3205.6 | 2954.9 | 2788.4 | 2760.6 | *2776.4* | 2991.9 | 3352.7 | 3506.3 | 3719.1 |
| 45° | 3692.2 | 3688.5 | 3459.1 | 3235.2 | 3185.3 | *3235.2* | 3457.3 | 3868.9 | 3979.0 | 4202.9 |
| 47.5° | 4089.1 | 4089.1 | 3921.7 | 3775.5 | 3749.6 | *3779.2* | 4087.3 | 4441.6 | 4431.4 | 4718.2 |
| 50° | 4546.1 | 4542.4 | 4383.3 | 4320.4 | 4347.2 | *4388.9* | 4812.6 | 5044.8 | 4899.6 | 5224.3 |
| 52.5° | 4866.2 | 4888.4 | 4833.9 | 4823.7 | 4960.6 | *5032.8* | 5549.0 | 5635.0 | 5318.6 | 5704.4 |
| 55° | 5119.7 | 5145.6 | 5208.5 | 5279.8 | 5543.5 | *5637.8* | 6262.3 | 6194.8 | 5669.3 | 6120.7 |
| 57.5° | 5478.7 | 5441.7 | 5538.8 | 5679.4 | 6105.9 | *6219.7* | 6953.4 | 6723.0 | 5951.4 | 6458.4 |
| 60° | 5914.4 | 5920.0 | 5936.6 | 6114.3 | 6667.5 | *6813.7* | 7634.3 | 7222.6 | 6132.8 | 6665.6 |
| 62.5° | 6438.1 | 6446.4 | 6480.6 | 6753.5 | 7421.5 | *7559.3* | 8359.6 | 7631.5 | 6216.0 | 6607.4 |
| 65° | 6402.0 | 6437.1 | 6819.2 | 7752.7 | 8567.7 | *8703.7* | 9206.1 | 7918.3 | 6090.2 | 6074.5 |
| 67.5° | 5832.1 | 5889.5 | 6528.7 | 8946.1 | 10295.9 | *10447.6* | 10229.3 | 7974.7 | 5547.2 | 4723.8 |
| 70° | 5084.6 | 5104.9 | 5873.7 | 10019.3 | 12297.0 | *12450.6* | 11145.2 | 7354.0 | 4209.4 | 2634.8 |
| 72.5° | *3970.7* | *3975.3* | *4877.3* | *10268.2* | *13383.1* | *13391.4* | *10426.3* | *5459.3* | *2263.8* | *1012.1* |
| 75° | 2836.5 | 2808.7 | 3266.7 | 8327.2 | 11774.3 | *11868.6* | 7816.5 | 2560.8 | 865.0 | 478.3 |
| 77.5° | 1520.9 | 1551.5 | 1848.4 | 4938.4 | 8133.8 | *8294.8* | 4264.9 | 738.3 | 440.4 | 325.6 |
| 80° | 470.0 | 495.9 | 757.7 | 2261.0 | 4607.2 | *4704.3* | 1581.1 | 328.4 | 307.1 | 232.2 |
| 82.5° | 148.0 | 153.6 | 353.4 | 950.1 | 1912.3 | *1956.7* | 457.9 | 186.0 | 210.0 | 153.6 |
| 85° | 42.6 | 43.5 | 157.3 | 354.3 | 472.7 | *482.0* | 128.6 | 72.2 | 120.3 | 95.3 |
| 87.5° | 4.6 | 14.8 | 59.2 | 59.2 | 41.6 | *40.7* | 13.9 | 15.7 | 34.2 | 12.0 |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1829.9 | 0° | 1829.9 | 1829.9 | 1829.9 | 1829.9 | 1829.9 | 1829.9 | 1829.9 | 1829.9 | 1829.9 | 1829.9 |
| 1838.3 | 2.5° | 1833.6 | 1834.6 | 1822.5 | 1802.2 | 1780.0 | 1761.5 | 1738.3 | 1719.8 | 1706.9 | 1703.2 |
| 1854.9 | 5° | 1846.6 | 1840.1 | 1805.9 | 1743.9 | 1669.9 | 1606.0 | 1534.8 | 1478.4 | 1441.4 | 1425.6 |
| 1872.5 | 7.5° | 1866.0 | 1847.5 | 1772.6 | 1650.5 | 1508.9 | 1383.1 | 1255.4 | 1156.4 | 1093.5 | 1062.1 |
| 1889.1 | 10° | 1882.7 | 1845.7 | 1717.1 | 1515.4 | 1298.9 | 1108.3 | 936.2 | 816.9 | 750.3 | 718.8 |
| 1908.6 | 12.5° | 1898.4 | 1844.7 | 1644.9 | 1355.3 | 1062.1 | 828.9 | 668.9 | 609.7 | 591.2 | 584.7 |
| 1940.0 | 15° | 1928.0 | 1847.5 | 1554.2 | 1172.2 | 826.2 | 626.3 | 568.0 | 567.1 | 570.8 | 569.0 |
| 1988.1 | 17.5° | 1968.7 | 1850.3 | 1451.5 | 977.9 | 637.4 | 552.3 | 549.5 | 557.9 | 563.4 | 560.6 |
| 2048.3 | 20° | 2021.4 | 1861.4 | 1342.4 | 785.4 | 547.7 | 533.8 | 540.3 | 547.7 | 552.3 | 547.7 |
| 2128.8 | 22.5° | 2095.4 | 1880.8 | 1223.0 | 630.9 | 519.0 | 522.7 | 528.3 | 536.6 | 541.2 | 534.7 |
| 2231.4 | 25° | 2186.1 | 1911.3 | 1105.5 | 548.6 | 505.1 | 509.8 | 518.1 | 527.3 | 532.9 | 526.4 |
| 2361.0 | 27.5° | 2303.6 | 1960.4 | 997.3 | 530.1 | 491.3 | 494.0 | 506.1 | 519.9 | 527.3 | 519.0 |
| 2545.1 | 30° | 2473.8 | 2040.9 | 903.9 | 538.4 | 482.9 | 476.4 | 493.1 | 512.5 | 520.9 | 513.5 |
| 2795.8 | 32.5° | 2699.6 | 2154.7 | 846.5 | 551.4 | 479.2 | 456.1 | 471.8 | 496.8 | 510.7 | 506.1 |
| 3123.3 | 35° | 2995.6 | 2327.7 | 824.3 | 566.2 | 476.4 | 434.8 | 445.9 | 472.7 | 496.8 | 501.4 |
| 3535.9 | 37.5° | 3354.6 | 2568.2 | 830.8 | 572.7 | 468.1 | 417.2 | 422.8 | 445.9 | 477.4 | 492.2 |
| 4000.3 | 40° | 3762.6 | 2848.5 | 867.8 | 566.2 | 458.9 | 402.4 | 403.4 | 420.9 | 448.7 | 470.9 |
| 4499.9 | 42.5° | 4183.5 | 3176.0 | 936.2 | 542.1 | 450.5 | 389.5 | 386.7 | 398.7 | 417.2 | 433.0 |
| 4998.5 | 45° | 4584.1 | 3512.8 | 1003.8 | 508.8 | 440.4 | 376.5 | 370.1 | 374.7 | 378.4 | 384.9 |
| 5484.2 | 47.5° | 4933.8 | 3749.6 | 984.4 | 478.3 | 426.5 | 361.7 | 350.6 | 348.8 | 337.7 | 336.8 |
| 5918.1 | 50° | 5175.2 | 3801.4 | 874.3 | 447.8 | 406.1 | 345.1 | 327.5 | 316.4 | 297.0 | 287.7 |
| 6242.9 | 52.5° | 5252.0 | 3597.0 | 714.2 | 417.2 | 372.8 | 322.9 | 297.9 | 280.3 | 256.3 | 247.9 |
| 6429.7 | 55° | 5150.3 | 3196.4 | 570.8 | 380.2 | 326.6 | 293.3 | 265.5 | 242.4 | 223.0 | 212.8 |
| 6450.1 | 57.5° | 4901.4 | 2686.6 | 451.5 | 336.8 | 277.5 | 260.0 | 232.2 | 209.1 | 192.4 | 182.3 |
| 6224.4 | 60° | 4488.8 | 2133.4 | 357.1 | 284.9 | 236.8 | 223.9 | 195.2 | 180.4 | 165.6 | 153.6 |
| 5641.5 | 62.5° | 3862.5 | 1522.8 | 280.3 | 225.7 | 198.0 | 183.2 | 166.5 | 155.4 | 137.8 | 121.2 |
| 4593.3 | 65° | 3014.1 | 931.6 | 216.5 | 165.6 | 159.1 | 151.7 | 141.5 | 131.4 | 110.1 | 93.4 |
| 2996.5 | 67.5° | 1901.2 | 441.3 | 154.5 | 124.9 | 125.8 | 122.1 | 117.5 | 109.2 | 93.4 | 78.6 |
| 1342.4 | 70° | 837.3 | 213.7 | 101.8 | 95.3 | 93.4 | 93.4 | 97.1 | 94.4 | 79.6 | 65.7 |
| *466.3* | 72.5° | *284.9* | *114.7* | *75.9* | *72.2* | *67.5* | *66.6* | *81.4* | *78.6* | *63.8* | *50.9* |
| 232.2 | 75° | 148.9 | 76.8 | 55.5 | 51.8 | 40.7 | 49.0 | 64.8 | 61.1 | 45.3 | 33.3 |
| 153.6 | 77.5° | 97.1 | 54.6 | 37.9 | 33.3 | 23.1 | 32.4 | 48.1 | 42.6 | 26.8 | 16.7 |
| 100.8 | 80° | 61.1 | 36.1 | 22.2 | 15.7 | 11.1 | 17.6 | 25.9 | 18.5 | 10.2 | 3.7 |
| 59.2 | 82.5° | 32.4 | 18.5 | 8.3 | 5.6 | 4.6 | 5.6 | 6.5 | 4.6 | 1.9 | 0.0 |
| 30.5 | 85° | 13.0 | 6.5 | 2.8 | 1.9 | 0.9 | 0.0 | 1.9 | 0.9 | 0.0 | 0.0 |
| 5.6 | 87.5° | 4.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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

| 180° |
|---|
| 1829.9 |
| 1709.7 |
| 1431.2 |
| 1066.7 |
| 719.8 |
| 582.8 |
| 568.0 |
| 559.7 |
| 546.8 |
| 533.8 |
| 525.5 |
| 519.0 |
| 512.5 |
| 506.1 |
| 501.4 |
| 495.9 |
| 478.3 |
| 439.4 |
| 388.6 |
| 335.8 |
| 288.6 |
| 247.0 |
| 212.8 |
| 180.4 |
| 150.8 |
| 118.4 |
| 90.7 |
| 76.8 |
| 62.9 |
| *48.1* |
| 30.5 |
| 14.8 |
| 2.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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