

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: P940858

Luminaire Tested: **GALN-SB4A-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940858
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-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 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: 13020 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

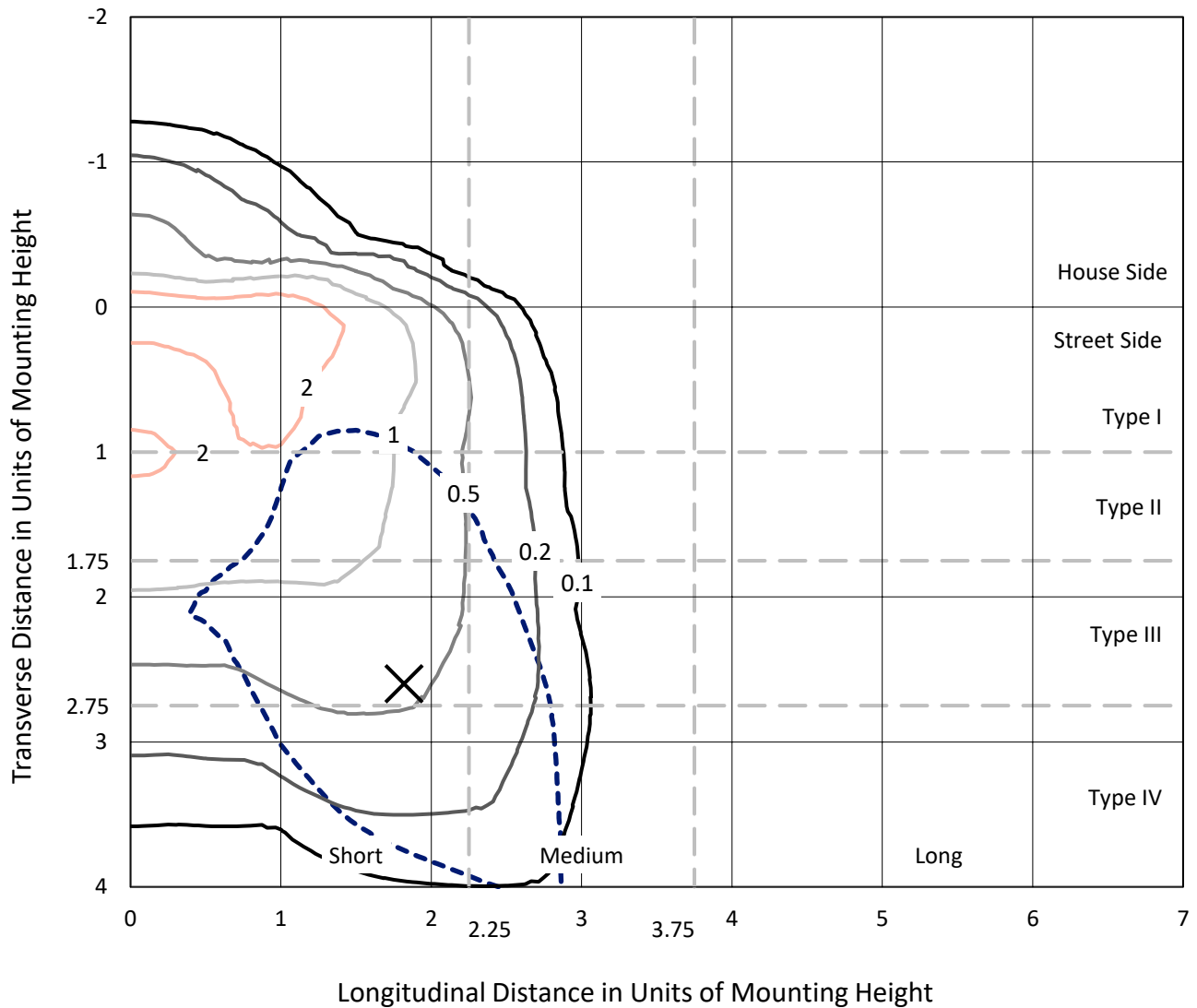
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

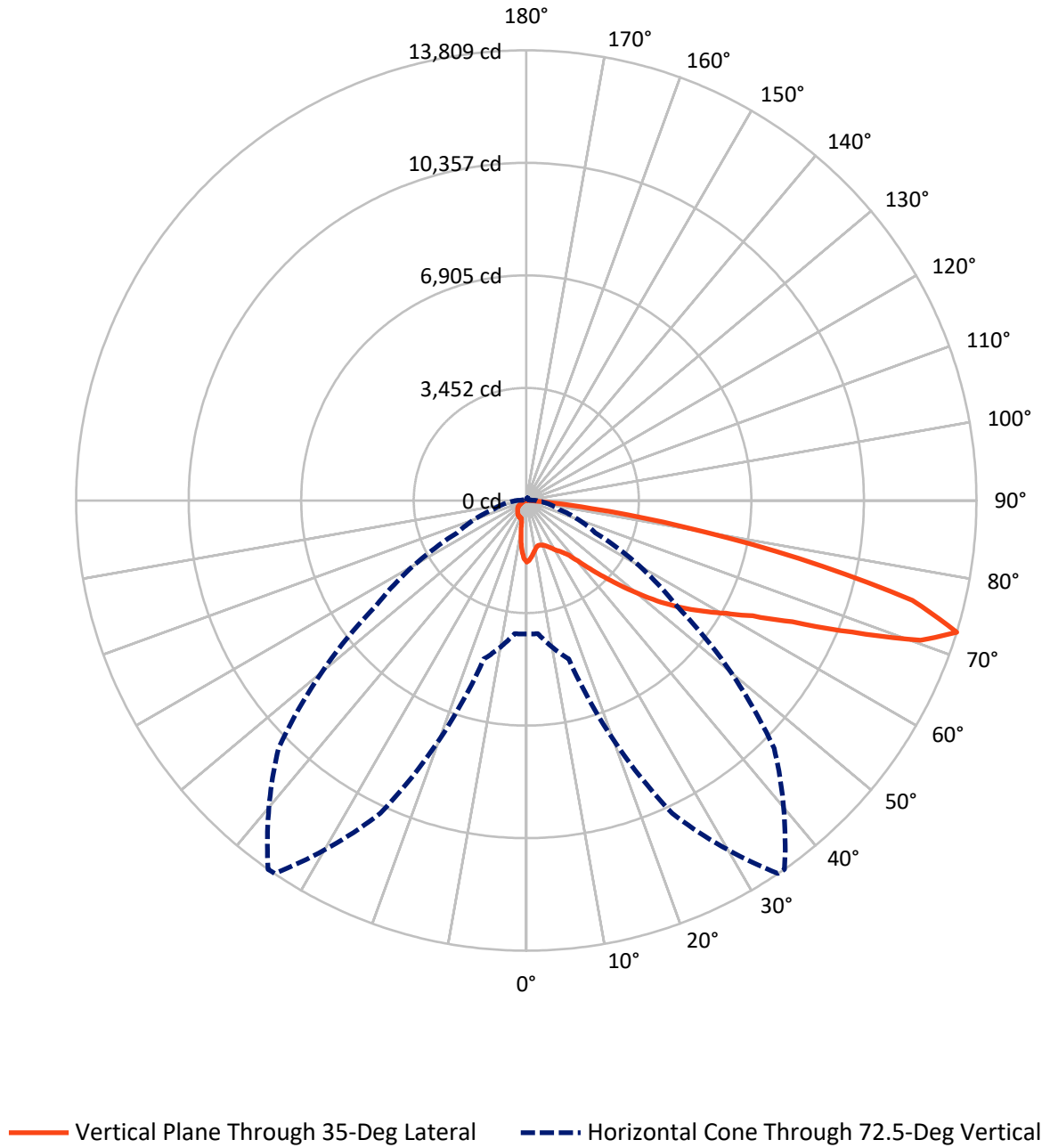
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 | 1465.3 | 0.0 | 1465.3 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 11554.7 | 0.0 | 11554.7 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 13020.0 | 0.0 | 13020.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 155.1 | 1.2 |
| 10°-20° | 362.8 | 2.8 |
| 20°-30° | 589.3 | 4.5 |
| 30°-40° | 983.2 | 7.6 |
| 40°-50° | 1860.3 | 14.3 |
| 50°-60° | 2956.0 | 22.7 |
| 60°-70° | 3656.7 | 28.1 |
| 70°-80° | 2273.0 | 17.5 |
| 80°-90° | 183.7 | 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° | 13020.0 | 100.0 |
| 0°-180° | 13020.0 | 100.0 |

Coefficient of Utilization



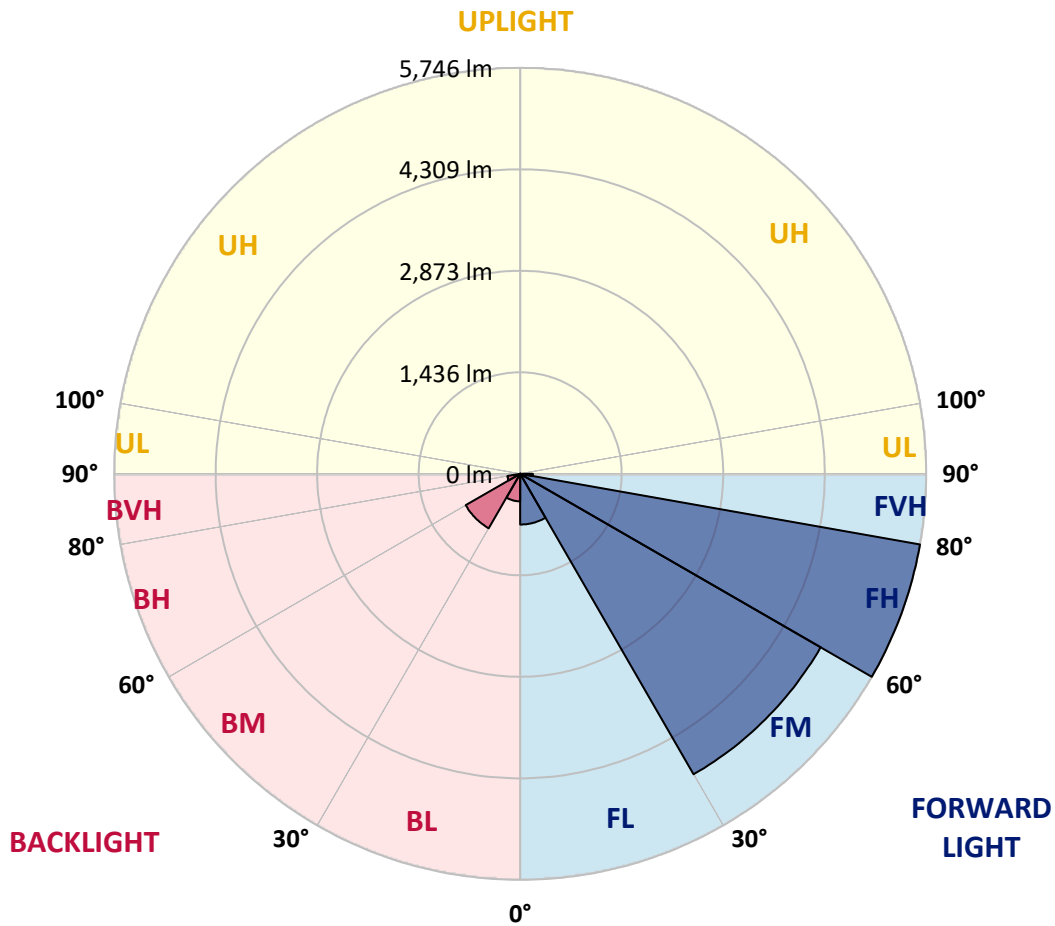
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 717.7 | 5.5 | | | |
| FM (30°-60°) | 4909.8 | 37.7 | | | |
| FH (60°-80°) | 5745.9 | 44.1 | | | G3/7500 |
| FVH (80°-90°) | 181.2 | 1.4 | | | G2/225 |
| BL (0°-30°) | 389.4 | 3.0 | B1/500 | | |
| BM (30°-60°) | 889.6 | 6.8 | B1/1000 | | |
| BH (60°-80°) | 183.9 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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° | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 |
| 2.5° | 1803.1 | 1818.3 | 1821.2 | 1826.0 | 1826.0 | 1831.7 | 1841.2 | 1854.6 | 1876.5 | 1888.0 |
| 5° | 1661.9 | 1673.3 | 1687.6 | 1699.1 | 1721.0 | 1723.9 | 1761.1 | 1797.4 | 1847.9 | 1886.1 |
| 7.5° | 1519.7 | 1533.1 | 1552.2 | 1579.8 | 1608.5 | 1617.0 | 1673.3 | 1734.4 | 1814.5 | 1886.1 |
| 10° | 1419.6 | 1420.5 | 1437.7 | 1465.4 | 1511.2 | 1521.6 | 1590.3 | 1677.2 | 1777.3 | 1874.6 |
| 12.5° | 1363.3 | 1370.0 | 1377.6 | 1398.6 | 1442.5 | 1449.1 | 1522.6 | 1624.7 | 1740.1 | 1868.0 |
| 15° | 1363.3 | 1368.1 | 1372.8 | 1383.3 | 1418.6 | 1424.3 | 1489.2 | 1591.3 | 1721.0 | 1870.8 |
| 17.5° | 1377.6 | 1385.2 | 1381.4 | 1393.8 | 1431.0 | 1434.8 | 1492.1 | 1581.8 | 1720.1 | 1888.9 |
| 20° | 1411.9 | 1417.7 | 1410.0 | 1417.7 | 1454.9 | 1462.5 | 1521.6 | 1599.9 | 1736.3 | 1920.4 |
| 22.5° | 1466.3 | 1469.2 | 1451.1 | 1456.8 | 1494.9 | 1504.5 | 1573.2 | 1651.4 | 1775.4 | 1971.0 |
| 25° | 1535.0 | 1540.7 | 1513.1 | 1519.7 | 1556.0 | 1567.4 | 1646.6 | 1728.7 | 1837.4 | 2040.6 |
| 27.5° | 1614.2 | 1617.0 | 1593.2 | 1592.2 | 1639.0 | 1655.2 | 1735.3 | 1824.1 | 1920.4 | 2128.4 |
| 30° | 1704.8 | 1713.4 | 1690.5 | 1686.7 | 1745.8 | 1759.2 | 1838.4 | 1941.4 | 2042.5 | 2260.1 |
| 32.5° | 1776.4 | 1783.0 | 1769.7 | 1779.2 | 1839.3 | 1849.8 | 1963.4 | 2107.4 | 2234.3 | 2447.0 |
| 35° | 1879.4 | 1883.2 | 1852.7 | 1869.9 | 1938.6 | 1965.3 | 2134.1 | 2340.2 | 2475.7 | 2681.7 |
| 37.5° | 2252.4 | 2252.4 | 2122.7 | 2037.8 | 2103.6 | 2127.4 | 2367.9 | 2633.1 | 2773.3 | 2996.5 |
| 40° | 2768.5 | 2760.0 | 2570.1 | 2396.5 | 2387.9 | 2434.6 | 2700.8 | 3002.3 | 3157.8 | 3374.3 |
| 42.5° | 3319.0 | 3305.6 | 3047.1 | 2875.4 | 2846.8 | 2863.0 | 3085.3 | 3457.3 | 3615.7 | 3835.1 |
| 45° | 3807.5 | 3803.6 | 3567.0 | 3336.2 | 3284.7 | 3336.2 | 3565.1 | 3989.7 | 4103.2 | 4334.1 |
| 47.5° | 4216.7 | 4216.7 | 4044.1 | 3893.3 | 3866.6 | 3897.1 | 4214.8 | 4580.2 | 4569.7 | 4865.5 |
| 50° | 4688.0 | 4684.2 | 4520.1 | 4455.2 | 4482.9 | 4525.8 | 4962.8 | 5202.2 | 5052.4 | 5387.3 |
| 52.5° | 5018.1 | 5041.0 | 4984.7 | 4974.2 | 5115.4 | 5189.8 | 5722.2 | 5810.9 | 5484.6 | 5882.4 |
| 55° | 5279.5 | 5306.2 | 5371.1 | 5444.5 | 5716.4 | 5813.7 | 6457.7 | 6388.1 | 5846.2 | 6311.7 |
| 57.5° | 5649.7 | 5611.5 | 5711.7 | 5856.7 | 6296.5 | 6413.8 | 7170.3 | 6932.8 | 6137.2 | 6660.0 |
| 60° | 6099.0 | 6104.7 | 6121.9 | 6305.1 | 6875.6 | 7026.3 | 7872.5 | 7448.0 | 6324.1 | 6873.7 |
| 62.5° | 6639.0 | 6647.6 | 6682.8 | 6964.3 | 7653.1 | 7795.2 | 8620.4 | 7869.6 | 6410.0 | 6813.5 |
| 65° | 6601.8 | 6638.0 | 7032.0 | 7994.6 | 8835.1 | 8975.3 | 9493.4 | 8165.4 | 6280.3 | 6264.0 |
| 67.5° | 6014.1 | 6073.2 | 6732.5 | 9225.3 | 10617.2 | 10773.7 | 10548.5 | 8223.6 | 5720.3 | 4871.2 |
| 70° | 5243.2 | 5264.2 | 6057.0 | 10331.9 | 12680.7 | 12839.1 | 11493.0 | 7583.4 | 4340.8 | 2717.0 |
| 72.5° | 4094.6 | 4099.4 | 5029.5 | 10588.6 | 13800.7 | 13809.3 | 10751.7 | 5629.6 | 2334.5 | 1043.7 |
| 75° | 2925.0 | 2896.4 | 3368.6 | 8587.1 | 12141.7 | 12239.0 | 8060.4 | 2640.7 | 892.0 | 493.2 |
| 77.5° | 1568.4 | 1599.9 | 1906.1 | 5092.5 | 8387.7 | 8553.7 | 4398.0 | 761.3 | 454.1 | 335.8 |
| 80° | 484.6 | 511.4 | 781.3 | 2331.6 | 4751.0 | 4851.1 | 1630.4 | 338.7 | 316.7 | 239.5 |
| 82.5° | 152.6 | 158.4 | 364.4 | 979.8 | 1971.9 | 2017.7 | 472.2 | 191.8 | 216.6 | 158.4 |
| 85° | 43.9 | 44.8 | 162.2 | 365.4 | 487.5 | 497.0 | 132.6 | 74.4 | 124.0 | 98.3 |
| 87.5° | 4.8 | 15.3 | 61.1 | 61.1 | 42.9 | 42.0 | 14.3 | 16.2 | 35.3 | 12.4 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1887.0 | 0° | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 |
| 1895.6 | 2.5° | 1890.9 | 1891.8 | 1879.4 | 1858.4 | 1835.5 | 1816.4 | 1792.6 | 1773.5 | 1760.2 | 1756.3 |
| 1912.8 | 5° | 1904.2 | 1897.5 | 1862.2 | 1798.3 | 1722.0 | 1656.2 | 1582.7 | 1524.5 | 1486.3 | 1470.1 |
| 1930.9 | 7.5° | 1924.2 | 1905.2 | 1827.9 | 1702.0 | 1556.0 | 1426.2 | 1294.6 | 1192.5 | 1127.6 | 1095.2 |
| 1948.1 | 10° | 1941.4 | 1903.3 | 1770.6 | 1562.7 | 1339.4 | 1142.9 | 965.5 | 842.4 | 773.7 | 741.3 |
| 1968.1 | 12.5° | 1957.6 | 1902.3 | 1696.2 | 1397.6 | 1095.2 | 854.8 | 689.8 | 628.7 | 609.6 | 602.9 |
| 2000.6 | 15° | 1988.2 | 1905.2 | 1602.7 | 1208.7 | 851.9 | 645.9 | 585.8 | 584.8 | 588.6 | 586.7 |
| 2050.2 | 17.5° | 2030.1 | 1908.0 | 1496.8 | 1008.4 | 657.3 | 569.5 | 566.7 | 575.3 | 581.0 | 578.1 |
| 2112.2 | 20° | 2084.5 | 1919.5 | 1384.3 | 810.0 | 564.8 | 550.5 | 557.1 | 564.8 | 569.5 | 564.8 |
| 2195.2 | 22.5° | 2160.8 | 1939.5 | 1261.2 | 650.6 | 535.2 | 539.0 | 544.7 | 553.3 | 558.1 | 551.4 |
| 2301.1 | 25° | 2254.3 | 1971.0 | 1140.0 | 565.7 | 520.9 | 525.7 | 534.2 | 543.8 | 549.5 | 542.8 |
| 2434.6 | 27.5° | 2375.5 | 2021.6 | 1028.4 | 546.6 | 506.6 | 509.4 | 521.8 | 536.2 | 543.8 | 535.2 |
| 2624.5 | 30° | 2551.0 | 2104.5 | 932.1 | 555.2 | 498.0 | 491.3 | 508.5 | 528.5 | 537.1 | 529.5 |
| 2883.0 | 32.5° | 2783.8 | 2221.9 | 872.9 | 568.6 | 494.2 | 470.3 | 486.5 | 512.3 | 526.6 | 521.8 |
| 3220.7 | 35° | 3089.1 | 2400.3 | 850.0 | 583.9 | 491.3 | 448.4 | 459.8 | 487.5 | 512.3 | 517.1 |
| 3646.2 | 37.5° | 3459.2 | 2648.3 | 856.7 | 590.5 | 482.7 | 430.3 | 436.0 | 459.8 | 492.3 | 507.5 |
| 4125.1 | 40° | 3880.0 | 2937.4 | 894.9 | 583.9 | 473.2 | 415.0 | 415.9 | 434.1 | 462.7 | 485.6 |
| 4640.3 | 42.5° | 4314.0 | 3275.1 | 965.5 | 559.1 | 464.6 | 401.6 | 398.8 | 411.2 | 430.3 | 446.5 |
| 5154.5 | 45° | 4727.1 | 3622.4 | 1035.1 | 524.7 | 454.1 | 388.3 | 381.6 | 386.4 | 390.2 | 396.9 |
| 5655.4 | 47.5° | 5087.7 | 3866.6 | 1015.1 | 493.2 | 439.8 | 373.0 | 361.6 | 359.7 | 348.2 | 347.3 |
| 6102.8 | 50° | 5336.7 | 3920.0 | 901.5 | 461.7 | 418.8 | 355.8 | 337.7 | 326.3 | 306.2 | 296.7 |
| 6437.7 | 52.5° | 5415.9 | 3709.2 | 736.5 | 430.3 | 384.5 | 332.9 | 307.2 | 289.1 | 264.3 | 255.7 |
| 6630.4 | 55° | 5311.0 | 3296.1 | 588.6 | 392.1 | 336.8 | 302.4 | 273.8 | 250.0 | 229.9 | 219.4 |
| 6651.4 | 57.5° | 5054.4 | 2770.4 | 465.6 | 347.3 | 286.2 | 268.1 | 239.5 | 215.6 | 198.4 | 187.9 |
| 6418.6 | 60° | 4628.9 | 2200.0 | 368.2 | 293.8 | 244.2 | 230.9 | 201.3 | 186.0 | 170.8 | 158.4 |
| 5817.6 | 62.5° | 3983.0 | 1570.3 | 289.1 | 232.8 | 204.2 | 188.9 | 171.7 | 160.3 | 142.1 | 125.0 |
| 4736.7 | 65° | 3108.2 | 960.7 | 223.2 | 170.8 | 164.1 | 156.5 | 146.0 | 135.5 | 113.5 | 96.4 |
| 3090.0 | 67.5° | 1960.5 | 455.1 | 159.3 | 128.8 | 129.7 | 125.9 | 121.2 | 112.6 | 96.4 | 81.1 |
| 1384.3 | 70° | 863.4 | 220.4 | 104.9 | 98.3 | 96.4 | 96.4 | 100.2 | 97.3 | 82.0 | 67.7 |
| 480.8 | 72.5° | 293.8 | 118.3 | 78.2 | 74.4 | 69.6 | 68.7 | 84.0 | 81.1 | 65.8 | 52.5 |
| 239.5 | 75° | 153.6 | 79.2 | 57.2 | 53.4 | 42.0 | 50.6 | 66.8 | 63.0 | 46.7 | 34.3 |
| 158.4 | 77.5° | 100.2 | 56.3 | 39.1 | 34.3 | 23.9 | 33.4 | 49.6 | 43.9 | 27.7 | 17.2 |
| 104.0 | 80° | 63.0 | 37.2 | 22.9 | 16.2 | 11.4 | 18.1 | 26.7 | 19.1 | 10.5 | 3.8 |
| 61.1 | 82.5° | 33.4 | 19.1 | 8.6 | 5.7 | 4.8 | 5.7 | 6.7 | 4.8 | 1.9 | 0.0 |
| 31.5 | 85° | 13.4 | 6.7 | 2.9 | 1.9 | 1.0 | 0.0 | 1.9 | 1.0 | 0.0 | 0.0 |
| 5.7 | 87.5° | 4.8 | 1.0 | 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 |

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| |
|-------------|
| <u>180°</u> |
| 1887.0 |
| 1763.0 |
| 1475.9 |
| 1100.0 |
| 742.2 |
| 601.0 |
| 585.8 |
| 577.2 |
| 563.8 |
| 550.5 |
| 541.9 |
| 535.2 |
| 528.5 |
| 521.8 |
| 517.1 |
| 511.4 |
| 493.2 |
| 453.2 |
| 400.7 |
| 346.3 |
| 297.7 |
| 254.7 |
| 219.4 |
| 186.0 |
| 155.5 |
| 122.1 |
| 93.5 |
| 79.2 |
| 64.9 |
| 49.6 |
| 31.5 |
| 15.3 |
| 2.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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