

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: P949375

Luminaire Tested: **GALN-SB4A-927-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-927-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8352 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

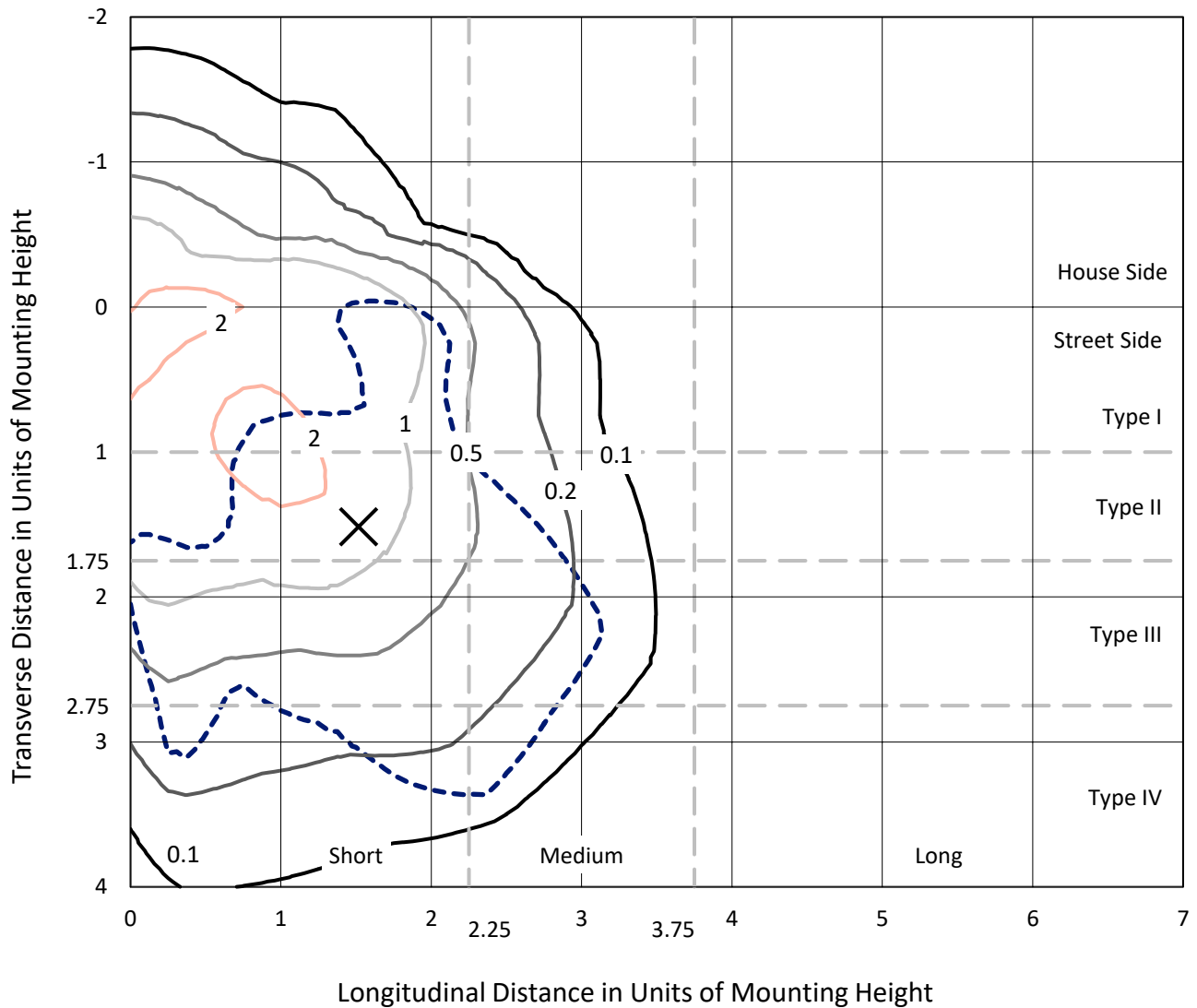
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949375
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Iso-Footcandle Lines of Horizontal Illumination

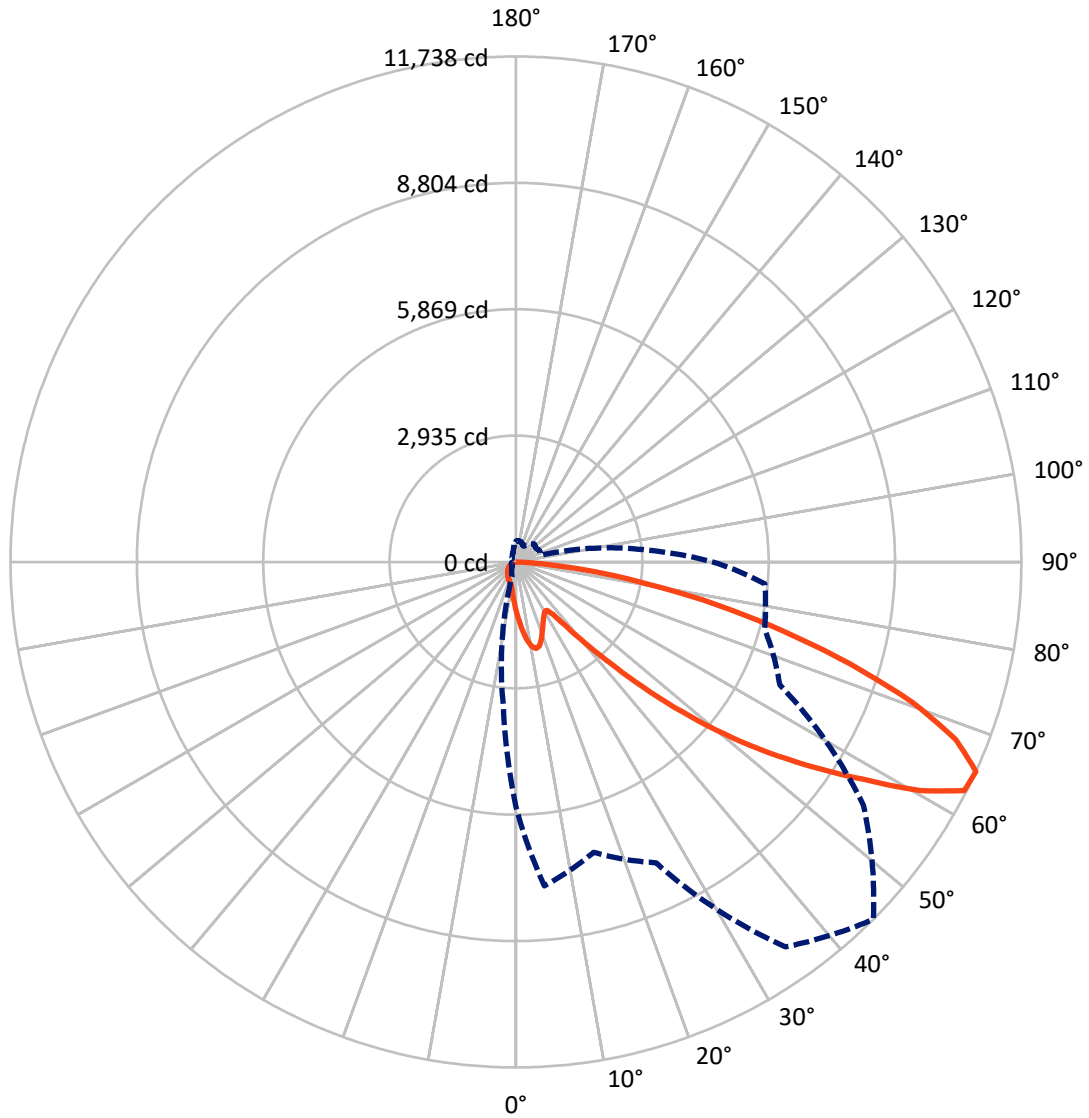
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

REPORT NUMBER: P949375
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1660.1 | 0.0 | 1660.1 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| Street Side | Lumens | 6691.9 | 0.0 | 6691.9 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| Total | Lumens | 8352.0 | 0.0 | 8352.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.9 | 1.4 |
| 10°-20° | 341.3 | 4.1 |
| 20°-30° | 502.8 | 6.0 |
| 30°-40° | 646.0 | 7.7 |
| 40°-50° | 1044.8 | 12.5 |
| 50°-60° | 1832.1 | 21.9 |
| 60°-70° | 2292.5 | 27.4 |
| 70°-80° | 1339.6 | 16.0 |
| 80°-90° | 239.0 | 2.9 |
| 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° | 8352.0 | 100.0 |
| 0°-180° | 8352.0 | 100.0 |



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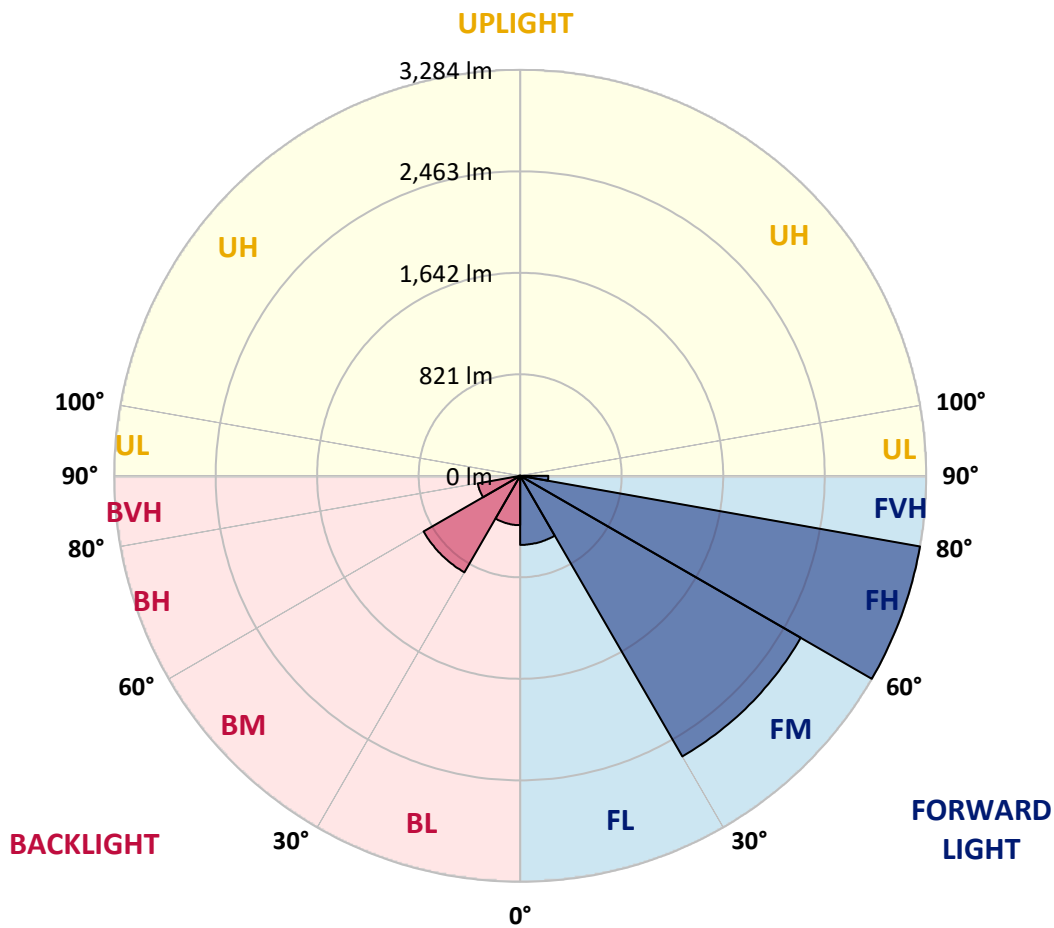
CATALOG NUMBER: GALN-SB4A-927-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 558.8 | 6.7 | | | |
| FM (30°-60°) | 2621.0 | 31.4 | | | |
| FH (60°-80°) | 3284.3 | 39.3 | | | G2/5000 |
| FVH (80°-90°) | 227.8 | 2.7 | | | G3/500 |
| BL (0°-30°) | 399.2 | 4.8 | B1/500 | | |
| BM (30°-60°) | 901.9 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 347.8 | 4.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.2 | 0.1 | | | G1/100 |
| 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° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 |
| 2.5° | 1295.7 | 1305.5 | 1327.4 | 1338.9 | 1356.7 | 1357.9 | 1357.9 | 1342.3 | 1341.8 | 1310.1 |
| 5° | 1448.2 | 1471.2 | 1523.0 | 1576.5 | 1588.0 | 1590.9 | 1585.1 | 1554.1 | 1531.0 | 1469.5 |
| 7.5° | 1599.5 | 1643.8 | 1722.6 | 1794.0 | 1817.0 | 1817.0 | 1803.2 | 1752.6 | 1705.4 | 1616.2 |
| 10° | 1724.9 | 1780.8 | 1887.8 | 1967.8 | 1994.2 | 1988.5 | 1960.3 | 1896.4 | 1831.4 | 1723.2 |
| 12.5° | 1807.8 | 1870.5 | 1987.9 | 2052.3 | 2079.4 | 2064.4 | 2032.2 | 1970.1 | 1901.6 | 1787.7 |
| 15° | 1849.2 | 1914.8 | 2016.7 | 2050.6 | 2043.1 | 2027.6 | 2023.6 | 1993.6 | 1941.9 | 1835.4 |
| 17.5° | 1867.1 | 1928.0 | 1998.8 | 1977.5 | 1914.2 | 1902.2 | 1942.4 | 1980.4 | 1967.8 | 1876.8 |
| 20° | 1883.7 | 1935.0 | 1956.2 | 1861.9 | 1751.4 | 1740.5 | 1817.6 | 1925.7 | 1981.0 | 1915.4 |
| 22.5° | 1906.8 | 1938.4 | 1894.7 | 1739.9 | 1620.8 | 1595.5 | 1680.6 | 1843.5 | 1985.0 | 1964.3 |
| 25° | 1938.4 | 1947.0 | 1826.8 | 1624.3 | 1504.6 | 1479.3 | 1558.7 | 1752.0 | 1978.1 | 2017.2 |
| 27.5° | 1976.4 | 1958.5 | 1761.8 | 1527.6 | 1411.9 | 1388.4 | 1467.8 | 1664.0 | 1958.5 | 2070.2 |
| 30° | 2025.9 | 1973.5 | 1697.3 | 1452.8 | 1345.8 | 1328.5 | 1405.0 | 1588.0 | 1934.4 | 2137.5 |
| 32.5° | 2075.9 | 1979.8 | 1637.5 | 1409.1 | 1330.8 | 1337.1 | 1399.9 | 1547.2 | 1907.9 | 2201.9 |
| 35° | 2130.0 | 2000.0 | 1608.1 | 1452.2 | 1455.7 | 1510.9 | 1536.8 | 1585.1 | 1903.9 | 2289.4 |
| 37.5° | 2203.7 | 2044.8 | 1643.2 | 1666.8 | 1786.5 | 1901.0 | 1879.7 | 1771.0 | 1950.5 | 2420.0 |
| 40° | 2309.5 | 2123.7 | 1796.3 | 2032.2 | 2277.9 | 2463.7 | 2382.6 | 2108.7 | 2093.2 | 2608.1 |
| 42.5° | 2463.7 | 2249.1 | 2067.9 | 2478.7 | 2895.2 | 3201.3 | 2983.8 | 2544.3 | 2342.9 | 2876.8 |
| 45° | 2691.6 | 2452.2 | 2396.4 | 2949.9 | 3656.4 | 4138.6 | 3686.4 | 3008.6 | 2692.7 | 3283.6 |
| 47.5° | 3007.4 | 2750.8 | 2704.2 | 3446.4 | 4581.6 | 5205.3 | 4465.4 | 3439.0 | 3090.9 | 3838.3 |
| 50° | 3426.9 | 3153.0 | 2995.9 | 3989.6 | 5596.0 | 6292.8 | 5243.9 | 3854.4 | 3547.1 | 4516.0 |
| 52.5° | 3980.4 | 3714.0 | 3336.0 | 4506.8 | 6639.1 | 7357.2 | 6025.8 | 4219.2 | 4113.3 | 5302.6 |
| 55° | 4735.3 | 4558.0 | 3800.9 | 5000.5 | 7681.7 | 8428.0 | 6777.2 | 4563.2 | 4861.3 | 6237.0 |
| 57.5° | 5672.0 | 5798.5 | 4471.2 | 5573.0 | 8619.0 | 9531.5 | 7532.1 | 5044.2 | 5832.5 | 7281.8 |
| 60° | 6276.1 | 7448.1 | 5754.8 | 6419.4 | 9684.0 | 10779.5 | 8566.6 | 5959.1 | 6853.2 | 7656.4 |
| 62.5° | 6129.9 | 7972.8 | 7292.2 | 7499.9 | 10663.2 | 11686.8 | 9580.4 | 6877.9 | 7045.4 | 7104.6 |
| 65° | 5681.7 | 7549.4 | 6978.6 | 7709.9 | 10911.2 | 11738.0 | 9851.4 | 6759.4 | 5976.3 | 5800.3 |
| 67.5° | 5064.9 | 7047.1 | 6233.5 | 7152.9 | 10463.0 | 11022.3 | 9346.8 | 5979.2 | 4618.5 | 4352.6 |
| 70° | 4399.2 | 6491.3 | 5744.4 | 6528.1 | 9608.6 | 9774.9 | 8488.9 | 5258.8 | 3397.0 | 2939.5 |
| 72.5° | 3767.5 | 5912.5 | 5409.6 | 5887.7 | 8468.8 | 8124.7 | 7372.2 | 4621.9 | 2473.5 | 2120.2 |
| 75° | 3121.4 | 5058.6 | 4932.6 | 5127.1 | 6970.0 | 6399.8 | 6125.3 | 3826.8 | 1941.3 | 1533.9 |
| 77.5° | 2408.5 | 3952.8 | 4242.7 | 4105.8 | 4906.1 | 4753.7 | 4747.9 | 2875.7 | 1418.3 | 1023.6 |
| 80° | 1648.4 | 2754.9 | 3314.7 | 2896.4 | 3184.1 | 3106.4 | 3575.9 | 1929.2 | 1028.8 | 616.2 |
| 82.5° | 968.9 | 1677.2 | 2307.2 | 1402.2 | 1760.6 | 1807.2 | 2129.4 | 938.4 | 605.3 | 142.1 |
| 85° | 393.0 | 662.2 | 902.2 | 548.9 | 849.2 | 716.3 | 808.4 | 263.5 | 168.6 | 3.5 |
| 87.5° | 99.0 | 211.7 | 148.4 | 61.6 | 98.4 | 90.3 | 71.3 | 32.2 | 6.9 | 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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CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1156.5 | 0° | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 |
| 1306.7 | 2.5° | 1284.2 | 1271.0 | 1238.2 | 1205.4 | 1178.9 | 1143.3 | 1119.7 | 1091.5 | 1064.4 | 1040.3 |
| 1456.3 | 5° | 1420.0 | 1376.3 | 1316.4 | 1261.8 | 1206.0 | 1151.9 | 1098.4 | 1042.0 | 990.2 | 958.6 |
| 1582.8 | 7.5° | 1530.5 | 1453.4 | 1374.0 | 1304.4 | 1237.0 | 1173.7 | 1103.0 | 1034.5 | 953.4 | 910.2 |
| 1679.5 | 10° | 1612.7 | 1511.5 | 1407.3 | 1327.4 | 1259.5 | 1197.9 | 1138.1 | 1069.0 | 971.2 | 917.1 |
| 1738.2 | 12.5° | 1666.8 | 1546.6 | 1424.6 | 1333.1 | 1257.2 | 1209.4 | 1183.0 | 1155.9 | 1058.7 | 995.4 |
| 1781.3 | 15° | 1704.2 | 1571.3 | 1436.7 | 1319.9 | 1226.7 | 1191.6 | 1218.0 | 1249.1 | 1187.0 | 1113.9 |
| 1826.2 | 17.5° | 1745.1 | 1603.5 | 1441.9 | 1284.2 | 1167.4 | 1152.5 | 1220.9 | 1292.8 | 1290.0 | 1217.5 |
| 1868.8 | 20° | 1788.2 | 1631.7 | 1438.4 | 1226.7 | 1095.5 | 1108.7 | 1196.2 | 1279.6 | 1314.7 | 1275.6 |
| 1917.7 | 22.5° | 1832.5 | 1658.8 | 1425.2 | 1151.9 | 1028.2 | 1069.6 | 1157.1 | 1230.1 | 1271.6 | 1259.5 |
| 1977.5 | 25° | 1888.3 | 1696.8 | 1405.6 | 1071.3 | 972.4 | 1029.9 | 1111.6 | 1170.9 | 1199.6 | 1199.1 |
| 2042.0 | 27.5° | 1955.1 | 1747.4 | 1395.3 | 1006.3 | 932.7 | 985.0 | 1057.5 | 1110.5 | 1130.6 | 1130.6 |
| 2121.9 | 30° | 2032.8 | 1807.2 | 1383.8 | 963.7 | 909.7 | 938.4 | 994.8 | 1046.6 | 1066.7 | 1066.7 |
| 2209.4 | 32.5° | 2119.1 | 1864.8 | 1356.1 | 937.8 | 892.4 | 893.0 | 928.6 | 975.8 | 1000.0 | 1003.4 |
| 2318.7 | 35° | 2222.6 | 1926.3 | 1295.7 | 917.1 | 872.3 | 848.7 | 865.9 | 905.1 | 933.8 | 941.3 |
| 2474.6 | 37.5° | 2358.4 | 2001.7 | 1209.4 | 886.6 | 841.2 | 802.1 | 806.1 | 836.0 | 867.7 | 879.2 |
| 2689.8 | 40° | 2540.8 | 2090.3 | 1119.7 | 842.9 | 797.5 | 750.9 | 749.1 | 771.0 | 802.1 | 814.7 |
| 2981.0 | 42.5° | 2781.9 | 2196.7 | 1033.9 | 800.9 | 744.5 | 696.8 | 693.9 | 711.2 | 738.2 | 751.4 |
| 3365.3 | 45° | 3090.3 | 2327.4 | 960.3 | 768.1 | 692.7 | 645.6 | 644.4 | 658.8 | 682.4 | 696.2 |
| 3857.3 | 47.5° | 3518.9 | 2458.0 | 910.2 | 750.9 | 651.9 | 603.6 | 605.9 | 618.5 | 639.8 | 649.6 |
| 4494.2 | 50° | 4077.6 | 2497.7 | 884.9 | 750.9 | 630.0 | 566.2 | 577.7 | 588.0 | 604.1 | 609.9 |
| 5257.7 | 52.5° | 4613.9 | 2366.5 | 861.9 | 755.5 | 632.9 | 534.5 | 559.3 | 566.7 | 580.5 | 582.8 |
| 5965.4 | 55° | 4876.8 | 2034.5 | 830.3 | 756.6 | 650.7 | 507.5 | 544.3 | 558.1 | 563.3 | 562.7 |
| 6376.2 | 57.5° | 4786.5 | 1645.0 | 776.7 | 752.0 | 662.8 | 490.2 | 525.9 | 552.4 | 555.8 | 550.6 |
| 6298.0 | 60° | 4469.4 | 1211.1 | 735.9 | 718.1 | 658.2 | 485.0 | 497.7 | 539.7 | 544.9 | 538.0 |
| 5695.0 | 62.5° | 3937.8 | 840.6 | 704.2 | 643.3 | 638.1 | 483.3 | 453.4 | 512.1 | 524.7 | 515.0 |
| 4577.6 | 65° | 3100.1 | 593.8 | 606.4 | 563.9 | 594.4 | 474.1 | 407.4 | 478.7 | 496.0 | 481.0 |
| 3321.0 | 67.5° | 2097.8 | 428.6 | 491.4 | 510.9 | 523.6 | 453.4 | 374.0 | 440.7 | 463.7 | 444.2 |
| 2131.2 | 70° | 1132.9 | 300.9 | 324.5 | 430.4 | 444.8 | 417.7 | 344.1 | 402.2 | 428.6 | 407.4 |
| 1514.9 | 72.5° | 669.2 | 216.3 | 227.3 | 345.8 | 370.5 | 367.7 | 310.7 | 357.3 | 389.5 | 364.2 |
| 1045.4 | 75° | 368.8 | 146.1 | 162.3 | 250.9 | 300.9 | 283.7 | 267.0 | 302.6 | 335.4 | 310.7 |
| 655.3 | 77.5° | 165.1 | 87.5 | 112.8 | 164.6 | 236.5 | 194.5 | 206.6 | 235.9 | 266.4 | 240.5 |
| 364.8 | 80° | 63.9 | 48.9 | 74.8 | 89.8 | 172.0 | 107.6 | 132.9 | 173.8 | 195.6 | 174.9 |
| 79.4 | 82.5° | 8.1 | 21.9 | 32.2 | 35.1 | 100.1 | 57.0 | 77.1 | 109.3 | 107.6 | 93.2 |
| 0.0 | 85° | 0.0 | 4.0 | 4.6 | 2.3 | 43.2 | 20.7 | 25.3 | 35.7 | 33.4 | 25.3 |
| 0.0 | 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 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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CANDELA DISTRIBUTION (continued):

| 185° | | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1156.5 | 0° | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1156.5 |
| 1035.7 | 2.5° | 1007.5 | 986.8 | 976.4 | 967.8 | 975.8 | 980.4 | 980.4 | 1000.0 | 1011.5 | 1016.1 |
| 938.4 | 5° | 887.8 | 849.2 | 823.3 | 807.8 | 813.0 | 818.7 | 825.1 | 849.8 | 866.5 | 877.4 |
| 871.1 | 7.5° | 793.4 | 734.7 | 698.5 | 679.5 | 682.4 | 686.4 | 691.6 | 715.8 | 732.4 | 746.8 |
| 858.4 | 10° | 746.8 | 664.0 | 616.2 | 593.2 | 589.2 | 586.9 | 585.1 | 599.5 | 612.2 | 623.7 |
| 910.2 | 12.5° | 749.1 | 633.5 | 575.4 | 547.2 | 535.1 | 521.3 | 510.3 | 512.7 | 520.7 | 535.1 |
| 1002.9 | 15° | 778.5 | 623.7 | 554.1 | 519.0 | 498.8 | 482.7 | 469.5 | 466.6 | 469.5 | 471.8 |
| 1108.7 | 17.5° | 818.2 | 622.5 | 535.7 | 491.9 | 471.2 | 458.0 | 445.9 | 441.9 | 442.5 | 445.3 |
| 1178.9 | 20° | 849.8 | 619.1 | 515.0 | 466.0 | 447.6 | 436.1 | 424.0 | 420.0 | 421.2 | 421.7 |
| 1185.8 | 22.5° | 866.5 | 613.9 | 491.9 | 440.2 | 424.6 | 413.1 | 402.2 | 401.6 | 401.6 | 405.1 |
| 1148.4 | 25° | 866.5 | 603.0 | 471.2 | 415.4 | 401.6 | 391.2 | 378.0 | 380.3 | 381.5 | 386.1 |
| 1090.3 | 27.5° | 845.8 | 582.3 | 454.5 | 394.1 | 379.7 | 369.4 | 357.3 | 360.2 | 361.9 | 367.1 |
| 1032.8 | 30° | 819.3 | 557.5 | 435.6 | 374.0 | 357.3 | 349.8 | 339.5 | 340.6 | 342.9 | 348.7 |
| 979.3 | 32.5° | 791.1 | 528.2 | 420.0 | 353.8 | 337.2 | 331.4 | 319.9 | 321.6 | 323.9 | 330.3 |
| 926.3 | 35° | 760.1 | 493.7 | 401.6 | 335.4 | 318.8 | 314.1 | 300.9 | 302.1 | 305.5 | 312.4 |
| 869.4 | 37.5° | 727.3 | 465.5 | 383.2 | 317.6 | 300.3 | 295.7 | 281.9 | 283.1 | 287.1 | 295.2 |
| 809.5 | 40° | 695.0 | 437.9 | 363.6 | 298.6 | 281.4 | 277.3 | 262.4 | 263.5 | 268.1 | 276.8 |
| 749.1 | 42.5° | 659.9 | 416.6 | 338.3 | 279.1 | 260.6 | 256.6 | 242.8 | 244.5 | 249.7 | 258.3 |
| 693.3 | 45° | 617.9 | 402.8 | 310.1 | 260.6 | 239.9 | 235.9 | 223.2 | 226.7 | 232.4 | 241.1 |
| 645.6 | 47.5° | 574.8 | 397.0 | 286.5 | 241.1 | 218.6 | 215.2 | 204.8 | 210.6 | 216.9 | 223.8 |
| 604.7 | 50° | 533.4 | 389.5 | 262.4 | 222.7 | 200.2 | 196.8 | 189.9 | 197.4 | 203.7 | 210.0 |
| 575.4 | 52.5° | 486.2 | 373.4 | 240.5 | 206.6 | 184.7 | 183.5 | 180.1 | 187.0 | 192.7 | 198.5 |
| 550.0 | 55° | 437.3 | 347.5 | 221.5 | 192.2 | 171.5 | 172.6 | 170.9 | 176.6 | 181.2 | 186.4 |
| 527.0 | 57.5° | 394.7 | 314.7 | 206.6 | 176.6 | 160.0 | 163.4 | 161.1 | 164.0 | 166.9 | 173.2 |
| 499.4 | 60° | 351.5 | 275.6 | 189.9 | 158.2 | 148.4 | 152.5 | 146.1 | 145.6 | 146.7 | 148.4 |
| 458.6 | 62.5° | 293.4 | 234.7 | 169.2 | 142.1 | 135.8 | 137.5 | 125.4 | 116.2 | 116.2 | 117.9 |
| 401.6 | 65° | 235.9 | 196.8 | 146.1 | 123.7 | 118.5 | 117.4 | 100.1 | 87.5 | 86.3 | 91.5 |
| 335.4 | 67.5° | 193.9 | 163.4 | 123.1 | 103.0 | 99.5 | 100.7 | 88.0 | 75.4 | 74.2 | 80.0 |
| 273.3 | 70° | 160.5 | 131.8 | 98.4 | 79.4 | 82.9 | 88.0 | 75.4 | 63.3 | 61.6 | 66.7 |
| 222.1 | 72.5° | 127.7 | 103.0 | 75.4 | 58.7 | 68.5 | 74.8 | 61.6 | 50.1 | 48.9 | 53.5 |
| 171.5 | 75° | 93.8 | 73.6 | 51.2 | 42.6 | 52.9 | 58.7 | 44.9 | 35.7 | 33.9 | 38.0 |
| 114.5 | 77.5° | 58.1 | 41.4 | 32.2 | 25.3 | 36.2 | 39.1 | 23.6 | 20.7 | 20.1 | 23.0 |
| 69.6 | 80° | 27.0 | 17.8 | 15.5 | 8.6 | 13.2 | 15.5 | 9.8 | 10.9 | 11.5 | 13.8 |
| 35.1 | 82.5° | 7.5 | 2.9 | 0.6 | 0.0 | 0.0 | 4.6 | 2.3 | 4.6 | 5.8 | 8.6 |
| 2.9 | 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.9 | 5.2 |
| 0.0 | 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 |
| 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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| 1048.3 | 2.5° | 1072.5 | 1095.5 | 1132.3 | 1170.3 | 1207.7 | 1245.7 | 1282.5 | 1295.7 |
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| 375.7 | 27.5° | 376.3 | 376.3 | 382.0 | 429.8 | 882.0 | 1462.6 | 1872.2 | 1976.4 |
| 358.5 | 30° | 359.6 | 359.6 | 363.6 | 380.3 | 736.5 | 1428.6 | 1920.6 | 2025.9 |
| 341.2 | 32.5° | 342.3 | 342.3 | 345.8 | 357.9 | 588.0 | 1386.1 | 1964.9 | 2075.9 |
| 323.4 | 35° | 325.1 | 323.9 | 328.5 | 341.2 | 467.8 | 1332.0 | 2009.2 | 2130.0 |
| 305.5 | 37.5° | 306.7 | 306.1 | 310.7 | 325.1 | 403.9 | 1269.3 | 2042.5 | 2203.7 |
| 287.7 | 40° | 287.1 | 287.1 | 292.3 | 307.8 | 385.5 | 1190.4 | 2095.5 | 2309.5 |
| 269.3 | 42.5° | 269.3 | 268.1 | 273.9 | 292.9 | 371.7 | 1115.1 | 2190.4 | 2463.7 |
| 252.6 | 45° | 252.0 | 249.7 | 254.9 | 278.5 | 347.5 | 1088.6 | 2367.6 | 2691.6 |
| 236.5 | 47.5° | 235.9 | 230.1 | 234.7 | 261.2 | 325.7 | 1187.6 | 2657.6 | 3007.4 |
| 222.1 | 50° | 222.7 | 211.7 | 215.8 | 244.0 | 309.0 | 1402.2 | 3033.9 | 3426.9 |
| 208.9 | 52.5° | 208.9 | 194.5 | 196.8 | 222.7 | 294.0 | 1606.4 | 3441.8 | 3980.4 |
| 195.6 | 55° | 194.5 | 178.4 | 179.5 | 201.4 | 272.7 | 1636.9 | 3840.0 | 4735.3 |
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| 79.4 | 70° | 85.7 | 79.4 | 79.4 | 131.8 | 109.3 | 152.5 | 1823.9 | 4399.2 |
| 65.6 | 72.5° | 71.9 | 65.0 | 60.4 | 105.3 | 81.7 | 111.6 | 1139.8 | 3767.5 |
| 50.1 | 75° | 57.5 | 52.4 | 46.6 | 69.6 | 61.0 | 84.6 | 662.2 | 3121.4 |
| 31.6 | 77.5° | 41.4 | 39.1 | 32.8 | 51.2 | 44.3 | 61.0 | 394.1 | 2408.5 |
| 19.6 | 80° | 21.3 | 21.9 | 20.7 | 29.3 | 29.9 | 41.4 | 224.4 | 1648.4 |
| 12.7 | 82.5° | 12.7 | 9.8 | 10.9 | 14.4 | 17.3 | 23.6 | 84.6 | 968.9 |
| 9.2 | 85° | 8.1 | 5.2 | 5.2 | 6.9 | 8.6 | 9.2 | 25.9 | 393.0 |
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