

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: P945971

Luminaire Tested: **GALN-SB1D-735-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8198 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

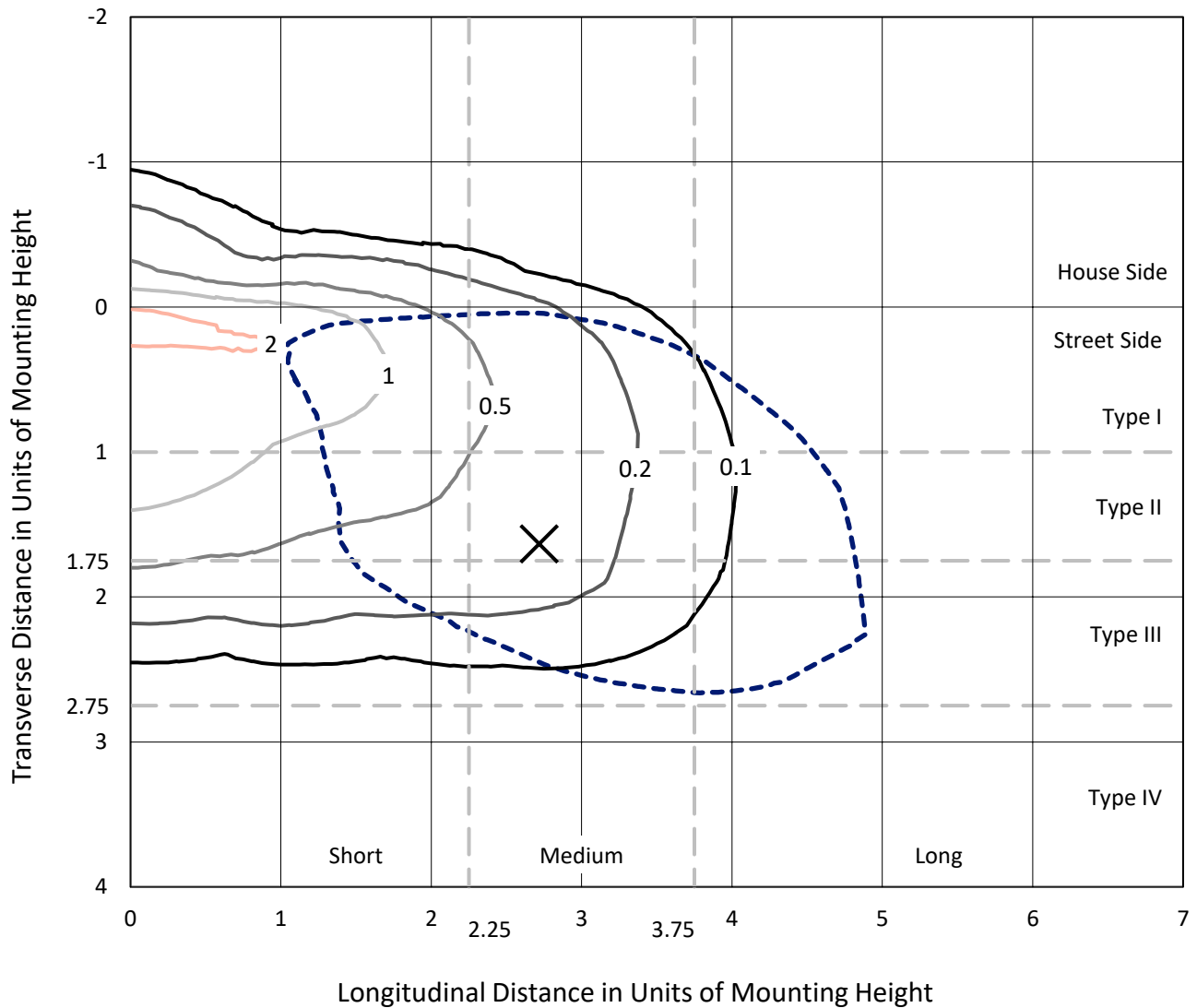
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

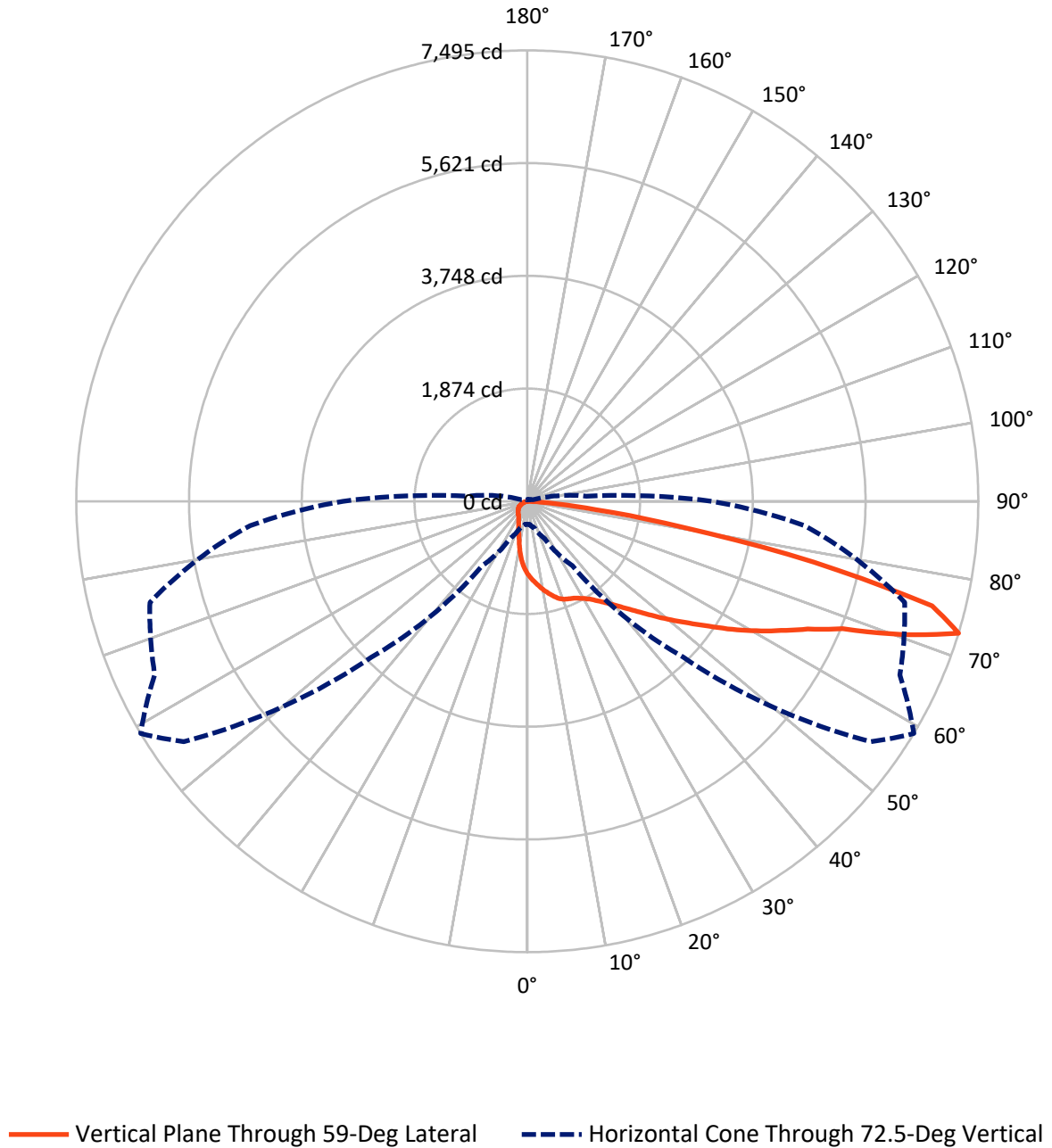
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 865.9 | 0.0 | 865.9 |
| | % Fixture | 10.6 | 0.0 | 10.6 |
| Street Side | Lumens | 7332.1 | 0.0 | 7332.1 |
| | % Fixture | 89.4 | 0.0 | 89.4 |
| Total | Lumens | 8198.0 | 0.0 | 8198.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.7 | 1.3 |
| 10°-20° | 291.3 | 3.6 |
| 20°-30° | 461.7 | 5.6 |
| 30°-40° | 741.0 | 9.0 |
| 40°-50° | 1183.5 | 14.4 |
| 50°-60° | 1713.5 | 20.9 |
| 60°-70° | 2033.5 | 24.8 |
| 70°-80° | 1509.6 | 18.4 |
| 80°-90° | 154.3 | 1.9 |
| 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° | 8198.0 | 100.0 |
| 0°-180° | 8198.0 | 100.0 |

Coefficient of Utilization



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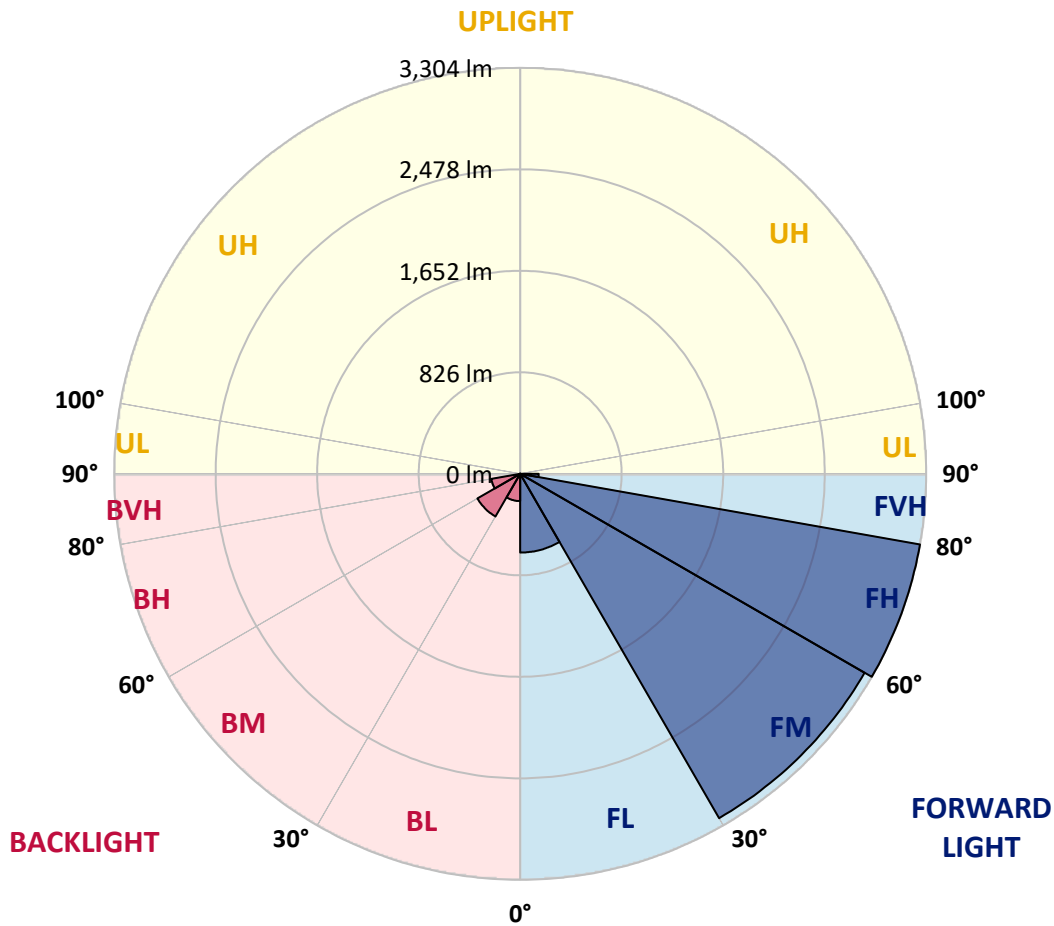
CATALOG NUMBER: GALN-SB1D-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 640.9 | 7.8 | | | |
| FM (30°-60°) | 3236.5 | 39.5 | | | |
| FH (60°-80°) | 3304.3 | 40.3 | | | G2/5000 |
| FVH (80°-90°) | 150.5 | 1.8 | | | G2/225 |
| BL (0°-30°) | 221.8 | 2.7 | B1/500 | | |
| BM (30°-60°) | 401.4 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 238.8 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.8 | 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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 |
| 2.5° | 1345.0 | 1337.5 | 1338.6 | 1325.8 | 1316.7 | 1307.0 | 1288.3 | 1285.6 | 1272.2 | 1248.7 |
| 5° | 1462.2 | 1457.4 | 1453.1 | 1438.7 | 1420.0 | 1396.4 | 1364.8 | 1353.6 | 1329.0 | 1288.3 |
| 7.5° | 1547.9 | 1542.0 | 1544.1 | 1529.7 | 1514.7 | 1488.5 | 1445.1 | 1424.2 | 1391.6 | 1329.5 |
| 10° | 1564.5 | 1561.3 | 1575.2 | 1580.5 | 1580.5 | 1563.9 | 1521.7 | 1500.8 | 1453.1 | 1373.9 |
| 12.5° | 1471.3 | 1471.9 | 1506.7 | 1548.4 | 1603.0 | 1618.5 | 1590.2 | 1567.7 | 1520.6 | 1421.0 |
| 15° | 1362.7 | 1363.2 | 1396.9 | 1450.5 | 1539.8 | 1629.2 | 1651.7 | 1637.3 | 1588.6 | 1471.9 |
| 17.5° | 1297.4 | 1294.7 | 1317.2 | 1361.1 | 1454.7 | 1580.5 | 1689.2 | 1698.8 | 1659.2 | 1528.1 |
| 20° | 1288.3 | 1283.5 | 1295.2 | 1317.2 | 1384.1 | 1519.5 | 1693.5 | 1739.0 | 1732.0 | 1591.8 |
| 22.5° | 1344.0 | 1336.5 | 1330.0 | 1331.1 | 1359.5 | 1468.7 | 1682.8 | 1761.4 | 1806.9 | 1668.3 |
| 25° | 1454.2 | 1442.4 | 1421.6 | 1394.8 | 1388.9 | 1458.0 | 1675.3 | 1786.1 | 1876.5 | 1766.2 |
| 27.5° | 1589.1 | 1572.5 | 1532.4 | 1492.2 | 1458.0 | 1487.9 | 1690.8 | 1825.1 | 1955.2 | 1880.3 |
| 30° | 1737.3 | 1717.0 | 1676.9 | 1600.9 | 1546.3 | 1554.8 | 1727.7 | 1876.5 | 2055.8 | 2009.2 |
| 32.5° | 1955.2 | 1908.1 | 1838.0 | 1721.8 | 1649.6 | 1627.1 | 1783.4 | 1941.8 | 2180.5 | 2181.0 |
| 35° | 2142.0 | 2115.8 | 2045.1 | 1900.6 | 1752.3 | 1722.9 | 1856.7 | 2033.9 | 2353.4 | 2408.5 |
| 37.5° | 2264.5 | 2228.7 | 2166.6 | 2057.9 | 1911.8 | 1821.4 | 1954.6 | 2146.8 | 2536.4 | 2667.6 |
| 40° | 2401.6 | 2366.2 | 2283.8 | 2181.6 | 2097.0 | 1990.5 | 2078.3 | 2276.9 | 2737.2 | 2933.6 |
| 42.5° | 2566.9 | 2520.9 | 2423.5 | 2313.3 | 2224.9 | 2213.2 | 2239.9 | 2439.0 | 2943.2 | 3222.6 |
| 45° | 2761.2 | 2717.9 | 2606.0 | 2466.9 | 2389.3 | 2368.4 | 2443.3 | 2628.0 | 3172.8 | 3539.5 |
| 47.5° | 2943.2 | 2892.9 | 2772.5 | 2645.6 | 2559.5 | 2493.6 | 2659.5 | 2851.2 | 3432.9 | 3870.8 |
| 50° | 3097.9 | 3046.5 | 2936.3 | 2800.8 | 2742.5 | 2656.3 | 2872.0 | 3100.0 | 3690.9 | 4207.4 |
| 52.5° | 3203.9 | 3158.4 | 3028.8 | 2936.8 | 2897.2 | 2853.8 | 3120.9 | 3363.9 | 3947.8 | 4515.7 |
| 55° | 3179.8 | 3139.1 | 3025.1 | 3018.7 | 3016.0 | 3061.5 | 3418.5 | 3663.1 | 4209.6 | 4807.4 |
| 57.5° | 3103.2 | 3057.2 | 2914.8 | 3012.8 | 3107.5 | 3246.7 | 3740.7 | 4016.9 | 4496.4 | 5082.5 |
| 60° | 2877.9 | 2861.9 | 2775.2 | 3001.6 | 3146.1 | 3428.1 | 4108.9 | 4372.3 | 4806.9 | 5324.4 |
| 62.5° | 2401.0 | 2414.9 | 2414.4 | 3025.1 | 3215.6 | 3634.7 | 4443.5 | 4731.9 | 5110.3 | 5557.3 |
| 65° | 1797.8 | 1846.0 | 1907.5 | 2813.2 | 3308.8 | 4003.5 | 4843.3 | 5122.1 | 5418.6 | 5828.1 |
| 67.5° | 1208.0 | 1246.5 | 1288.3 | 2307.9 | 3031.5 | 4391.0 | 5507.5 | 5656.8 | 5787.9 | 6128.3 |
| 70° | 691.5 | 703.8 | 762.2 | 1441.4 | 2336.8 | 4284.0 | 6589.2 | 6643.2 | 6338.7 | 6498.2 |
| 72.5° | 387.5 | 383.2 | 460.3 | 684.0 | 1306.0 | 3668.4 | 6968.1 | 7495.3 | 6831.6 | 6492.3 |
| 75° | 259.0 | 259.6 | 316.9 | 431.4 | 509.0 | 2568.0 | 6004.7 | 6949.9 | 6536.2 | 5756.9 |
| 77.5° | 176.6 | 182.5 | 232.8 | 333.4 | 235.5 | 1253.0 | 3972.5 | 4868.4 | 5291.8 | 4445.6 |
| 80° | 76.5 | 77.1 | 153.6 | 239.2 | 159.0 | 398.7 | 2059.6 | 2608.2 | 3318.9 | 2496.3 |
| 82.5° | 39.6 | 45.0 | 97.9 | 154.7 | 100.1 | 139.7 | 973.0 | 1139.5 | 1392.7 | 732.7 |
| 85° | 13.9 | 16.6 | 60.5 | 76.0 | 50.3 | 49.8 | 338.8 | 345.2 | 294.9 | 110.3 |
| 87.5° | 0.0 | 2.7 | 23.5 | 18.7 | 6.4 | 5.9 | 40.1 | 33.7 | 26.8 | 15.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1212.3 | 0° | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 |
| 1224.6 | 2.5° | 1213.4 | 1198.9 | 1175.4 | 1146.5 | 1112.7 | 1094.5 | 1068.3 | 1052.3 | 1037.8 | 1038.3 |
| 1241.2 | 5° | 1215.0 | 1190.9 | 1130.9 | 1067.2 | 996.6 | 944.7 | 886.9 | 846.2 | 815.2 | 807.7 |
| 1258.3 | 7.5° | 1219.8 | 1179.1 | 1081.2 | 975.2 | 857.4 | 770.2 | 690.4 | 640.1 | 611.8 | 604.3 |
| 1276.0 | 10° | 1226.2 | 1166.3 | 1025.0 | 862.8 | 716.7 | 611.8 | 545.4 | 513.3 | 500.4 | 490.8 |
| 1298.5 | 12.5° | 1231.6 | 1152.9 | 954.3 | 746.6 | 591.4 | 509.5 | 459.2 | 432.5 | 421.2 | 414.3 |
| 1324.7 | 15° | 1240.7 | 1135.2 | 877.8 | 638.5 | 506.9 | 440.0 | 392.3 | 372.5 | 369.3 | 370.4 |
| 1353.6 | 17.5° | 1249.8 | 1118.1 | 792.1 | 554.0 | 444.8 | 378.9 | 350.0 | 346.8 | 351.1 | 355.4 |
| 1386.8 | 20° | 1259.9 | 1093.5 | 705.4 | 490.3 | 387.5 | 336.7 | 329.2 | 331.3 | 333.4 | 340.9 |
| 1432.3 | 22.5° | 1274.9 | 1062.4 | 629.4 | 436.2 | 339.9 | 316.3 | 312.6 | 314.2 | 315.8 | 323.3 |
| 1492.2 | 25° | 1296.3 | 1029.2 | 567.9 | 386.4 | 309.9 | 299.7 | 296.0 | 296.0 | 298.1 | 305.1 |
| 1561.8 | 27.5° | 1318.8 | 982.1 | 518.1 | 340.4 | 292.2 | 281.5 | 275.1 | 275.1 | 277.8 | 285.8 |
| 1649.0 | 30° | 1344.0 | 939.3 | 479.0 | 306.1 | 277.2 | 263.3 | 254.8 | 252.6 | 255.8 | 266.0 |
| 1775.3 | 32.5° | 1389.4 | 911.5 | 451.2 | 290.1 | 263.9 | 246.7 | 235.0 | 229.1 | 232.3 | 244.1 |
| 1952.0 | 35° | 1458.5 | 905.1 | 431.9 | 282.1 | 251.0 | 231.8 | 215.2 | 206.1 | 208.7 | 221.0 |
| 2169.8 | 37.5° | 1539.3 | 918.4 | 413.2 | 271.4 | 238.7 | 217.3 | 195.4 | 183.6 | 187.9 | 199.1 |
| 2418.7 | 40° | 1655.5 | 974.1 | 398.7 | 263.3 | 226.4 | 200.2 | 175.6 | 163.8 | 170.7 | 180.4 |
| 2677.7 | 42.5° | 1795.7 | 1073.1 | 395.0 | 255.8 | 211.4 | 182.0 | 157.4 | 148.8 | 154.1 | 163.2 |
| 2939.5 | 45° | 1969.6 | 1199.4 | 412.1 | 246.2 | 194.8 | 164.3 | 142.9 | 138.1 | 139.7 | 148.8 |
| 3186.7 | 47.5° | 2156.4 | 1329.0 | 459.2 | 237.6 | 180.4 | 149.9 | 131.7 | 127.4 | 126.3 | 134.9 |
| 3412.6 | 50° | 2345.4 | 1444.0 | 514.9 | 231.2 | 170.2 | 138.1 | 123.1 | 117.7 | 115.1 | 120.4 |
| 3635.8 | 52.5° | 2532.2 | 1535.6 | 551.3 | 220.5 | 160.0 | 126.3 | 115.6 | 107.6 | 102.8 | 105.4 |
| 3857.9 | 55° | 2721.6 | 1615.9 | 553.4 | 204.5 | 150.4 | 118.8 | 108.1 | 99.0 | 93.1 | 93.1 |
| 4072.0 | 57.5° | 2898.8 | 1686.5 | 521.8 | 183.0 | 137.0 | 111.9 | 97.9 | 90.5 | 84.0 | 81.9 |
| 4262.0 | 60° | 3055.6 | 1739.0 | 469.4 | 159.0 | 125.2 | 102.8 | 87.8 | 81.9 | 73.9 | 69.6 |
| 4431.1 | 62.5° | 3195.3 | 1764.6 | 397.7 | 134.3 | 110.8 | 92.1 | 78.1 | 71.7 | 61.0 | 55.7 |
| 4603.0 | 65° | 3313.6 | 1738.4 | 322.7 | 111.3 | 98.5 | 80.3 | 66.9 | 60.5 | 48.7 | 42.3 |
| 4796.2 | 67.5° | 3430.8 | 1618.5 | 244.1 | 93.7 | 85.6 | 67.4 | 55.1 | 49.2 | 40.7 | 35.3 |
| 4936.9 | 70° | 3445.8 | 1366.4 | 170.7 | 78.7 | 71.2 | 51.9 | 44.4 | 40.7 | 33.2 | 28.4 |
| 4622.8 | 72.5° | 3067.4 | 983.2 | 103.8 | 64.2 | 55.7 | 36.9 | 35.3 | 32.1 | 24.6 | 21.4 |
| 3777.1 | 75° | 2451.9 | 602.7 | 61.0 | 48.2 | 36.9 | 26.2 | 26.2 | 23.0 | 16.6 | 13.9 |
| 2607.6 | 77.5° | 1694.5 | 315.2 | 35.9 | 31.0 | 21.9 | 15.5 | 17.1 | 13.9 | 8.0 | 6.4 |
| 1033.0 | 80° | 678.7 | 119.9 | 19.3 | 14.5 | 10.2 | 7.0 | 5.9 | 3.2 | 1.6 | 1.1 |
| 211.9 | 82.5° | 135.4 | 31.6 | 6.4 | 3.7 | 3.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 58.3 | 85° | 34.8 | 7.0 | 1.6 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19.3 | 87.5° | 10.7 | 0.0 | 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> |
| 1212.3 |
| 1050.1 |
| 818.9 |
| 611.8 |
| 496.7 |
| 418.0 |
| 372.0 |
| 357.0 |
| 343.1 |
| 325.4 |
| 307.8 |
| 289.0 |
| 268.7 |
| 247.3 |
| 224.8 |
| 202.3 |
| 182.0 |
| 164.8 |
| 153.1 |
| 140.2 |
| 122.6 |
| 107.6 |
| 94.2 |
| 82.4 |
| 68.5 |
| 55.1 |
| 42.3 |
| 35.3 |
| 27.8 |
| 20.9 |
| 13.9 |
| 6.4 |
| 1.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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